



# CITY OF WOOD DALE

**NEXT ORDINANCE NUMBER: O-20- 029**

**NEXT RESOLUTION NUMBER: R-20- 77**

## **PUBLIC NOTICE OF CITY COUNCIL MEETING**

IN ACCORDANCE WITH THE APPLICABLE STATUTES OF THE STATE OF ILLINOIS AND THE ORDINANCES OF THE CITY OF WOOD DALE, THE NEXT REGULAR MEETING OF THE CITY COUNCIL OF THE CITY OF WOOD DALE IS SCHEDULED TO BE HELD AT THE HOUR OF 7:30 P.M. ON THURSDAY, NOVEMBER 5, 2020 IN THE COUNCIL CHAMBERS OF THE CITY HALL, 404 N. WOOD DALE ROAD, WOOD DALE, ILLINOIS, DURING WHICH MEETING IT IS ANTICIPATED THAT THERE WILL BE DISCUSSION OF THE FOLLOWING:

AGENDA  
CITY OF WOOD DALE, ILLINOIS  
REGULAR CITY COUNCIL MEETING  
NOVEMBER 5, 2020

**I. CALL TO ORDER**

**II. ROLL CALL**

**Mayor Pulice**

**Alderman Catalano**

**Alderman Jakab**

**Alderman Messina**

**Alderman Sorrentino**

**Alderman Susmarski**

**Alderman Eugene Wesley**

**Alderman Roy Wesley**

**Alderman Woods**

**III. PLEDGE OF ALLEGIANCE**

**IV. APPROVAL OF MINUTES**

A. October 15, 2020, Regular City Council Meeting Minutes

**V. COMMUNICATIONS AND PETITIONS**

*Citizens will be given the opportunity to address the City Council during the time set aside in the Meeting for Public Comment under Communications and Petitions. Please direct your comments to the Mayor, limit your remarks to three (3) minutes, and kindly refrain from making repetitive statements.*

A. Citizens To Be Heard

B. Written Communiques of Citizens to Be Heard

**VI. MAYOR'S REPORT**

A. Earth Flag Presentation

**VII. CITY MANAGER'S REPORT**

**VIII. CONSENT AGENDA**

A. Omnibus Vote

- i. A Resolution to Approve an Agreement for Façade and Site Improvements at 414-420 E. Irving Park Road and 422 E. Irving Park Road in an Amount Not to Exceed \$128,232.36
- ii. An Ordinance Granting Variances to Allow Parking Lot Improvements at 414-420 E. Irving Park Road and 422 E. Irving Park Road, Wood Dale
- iii. A Resolution Approving a Non-Exclusive License Agreement for the use of City Property For Parking 414-420 E. Irving Park Road and 422 East Irving Park Road, Wood Dale
- iv. An Ordinance Granting a Variance to Allow Construction of a Patio as a Side Yard Obstruction at 417 Woodside Drive, Wood Dale
- v. A Resolution Authorizing the City of Wood Dale to Enter into an Agreement to Purchase a Body Camera System and Supporting Software from CDS Office Technologies in an Amount Not To Exceed \$87,610
- vi. An Ordinance Repealing and Restating the City Of Wood Dale's Investment Policy as Set Forth in Article 5, Section 1.509 of the Wood Dale Municipal Code
- vii. A Resolution Designating the Wood Dale Bank & Trust, a Wintrust Community Bank, as the Banking Institution for the City Of Wood Dale

**IX. COMMITTEE CHAIRMAN REPORTS**

A. Planning, Zoning And Building Committee

B. Public Health, Safety, Judiciary And Ethics Committee

C. Public Works Committee

- i. A Resolution Adopting the City of Wood Dale Engineering Design and Development Standards Manual
- ii. An Ordinance Declaring Property Owned by the City of Wood Dale Surplus for the Purpose of Selling

D. Finance And Administration Committee

- i. An Ordinance of the City of Wood Dale, DuPage County, Illinois, Amending Ordinance No. O-20-002, Authorizing The Acquisition Through Condemnation of a Parcel Commonly Known as 310 E. Irving Park Road for the Purposes of Economic Development
- ii. Local Covid-19 Stimulus

**X. OTHER BUSINESS**

A. Airport Noise Report

B. Stormwater Commission Report

**XI. APPROVAL OF LIST OF BILLS**

i. List of Bills for November 5, 2020 - \$498,815.59

**XII. EXECUTIVE SESSION**

**XIII. ITEMS TO BE REFERRED**

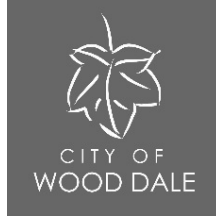
**XIV. ITEMS FOR INFORMATION ONLY**

**XV. ADJOURNMENT**

**POSTED IN CITY HALL ON OCTOBER 30, 2020 AT 4:00 PM**

Lynn Curiale, City Clerk

BY: MAURA MONTALVO, CITY DEPUTY CLERK



# CITY OF WOOD DALE

404 North Wood Dale Rd. • Wood Dale, Illinois • 60191

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MINUTES OF THE REGULAR CITY COUNCIL MEETING  
OF THE CITY OF WOOD DALE, DU PAGE COUNTY, ILLINOIS  
IN THE CITY ADMINISTRATION BUILDING  
October 15, 2020

I. CALL TO ORDER REGULAR CITY COUNCIL MEETING:

Mayor Nunzio Pulice called the Regular City Council Meeting to Order at 7:30 p.m.

II. ROLL CALL

Upon roll call, the following were:

Present: Aldermen Catalano, Jakab, Messina, Sorrentino, Susmarski, E. Wesley and Woods (arrived 7:34 pm), Mayor Pulice

Absent: Alderman R. Wesley

Also Present: City Clerk Curiale, Treasurer Porch, City Manager Mermuys, Legal Counsel Bond, Police Chief Vesta, Finance Director Wilson, Public Works Director Lange, AICP/CD Director Cage

Whereupon the Mayor declared a quorum present.

III. PLEDGE OF ALLEGIANCE

IV. APPROVAL OF MINUTES

Alderman Susmarski made a motion, seconded by Alderman Sorrentino, to approve the Regular City Council Minutes of October 1, 2020. When the question was put, a roll call vote was taken with the following results:

Ayes: Aldermen Catalano, Jakab, Messina, Sorrentino, Susmarski, E. Wesley and Woods

Nays: None

Whereupon the Mayor declared the motion carried.

V. COMMUNICATIONS AND PETITIONS:

i. Citizens to be Heard

None

ii. Written Communiqués of Citizens to Be Heard

a. Park District Director, Matt Ellmann, wrote the Wood Dale Park District is proceeding ahead with the Veterans Day Breakfast on Nov 7 at the Salt Creek

Golf Club and asked if the City would sponsor the cost of food and beverages, estimated to be approximately \$450.00, and also seeking volunteer servers. It was decided by all the City would help.

- b. The City of Wood Dale's Trick or Treat hours will be 2 pm-7 pm, on Halloween, Sat. Oct. 31. The City strongly encourages all the trick or treaters and those accompanying them, to observe all current CDC and IDPH safety guidelines, including those of wearing masks, maintaining safe social distance, and taking precautions to prevent the spread of Covid-19. Parents should use their own judgement as to whether they want their children to participate. Understanding that not all residents are comfortable about trick or treaters coming to their door, the City has created a "No Trick or Treat" sign they can pick up at City Hall to display on their door. It will also be in the Nov/Dec Community Newsletter that can be cut out and displayed. Please be respectful of those that do not wish to participate.

On behalf of the City of Wood Dale, we wish you a happy and safe Halloween.

## VI. MAYOR'S REPORT

### A. *A Resolution Discontinuing Temporary Outdoor Dining*

Attorney Bond explained the City allowed temporary outdoor dining as a companion to the temporary Covid-19 Liquor Licenses that involved a Code provision that incorporated a sunset provision of October 31, 2020. Businesses were notified it was temporary and would be terminated by the City Council. Recognizing that the Chicagoland weather is not conducive to continue outdoor dining, the City Council deems it in the best interest of the City and its residents for outdoor operations to cease at the close of their business hours October 31, 2020. Effective November 1, 2020 no outdoor service can be provided and all parking lots are to have all tents, tables and chairs removed and be restored to their original condition. If there is snow before October 31, 2020 the structures will have to come down at that time for the health, safety and welfare of our residents as many of the temporary structures cannot withstand the weight of snow.

Manager Mermuys stated correspondence will be sent to the businesses involved and they will also be given the opportunity to still submit any receipts that qualify for reimbursements under the City Program.

On a motion by Alderman E. Wesley, seconded by Alderman Sorrentino, to approve *A Resolution Discontinuing Temporary Outdoor Dining*. When the question was put, all Aldermen voted in the Affirmative. Whereupon the Mayor declared the motion carried.

## VII. CITY MANAGER'S REPORT

City Manager Mermuys reported:

- i. Final yard waste pickup will take place November 30 and December 1, depending on the usual day of service.

- ii. Great news! Previously the Council had passed an Ordinance approving the refinancing of the Water Treatment Plant Bonds. It was originally estimated \$300,000 would be saved for the taxpayers, but in reality \$480,000 was saved.

#### VIII. CONSENT AGENDA

##### A. Omnibus Vote

- i. *A Resolution Authorizing the City of Wood Dale to Enter into a Professional Services Agreement with Christopher Burke Engineering, Ltd for a Traffic Warrant Study for Illinois Route 83, in the Amount not-to-exceed \$37,000*
- ii. *A Resolution Approving an Agreement with G. Fisher Commercial Construction, Inc. for the Police Department Security Wall and Parking Lot Improvement Project in an Amount Not to Exceed \$675,000*
- iii. *A Resolution Authorizing the Approval of a Cost-Share Agreement Between the City of Wood Dale and Bridge Development Partners, the Property Owner, for Reimbursement of Certain Salt Creek Greenway Trail Improvements at the Bridge Point Wood Dale Project, Located At 650-750 N. Wood Dale Road, in a Not to Exceed Amount of \$63,000*
- iv. *A Resolution Approving an Agreement with Mesirow Insurance Services, Inc., an Alliant-owned Company, for Professional Insurance Brokerage and Risk Management Consulting Services in an Amount Not to Exceed \$39,500 Annually*

The Mayor questioned if there were any objections to the Consent Agenda. Hearing none and on a motion by Alderman E. Wesley, seconded by Alderman Jakab, to approve the Consent Agenda. When the question was put, a roll call vote was taken with the following results:

Ayes: Aldermen Catalano, Jakab, Messina, Sorrentino, Susmarksi, E. Wesley and Woods

Nays: None

Whereupon the Mayor declared the motion carried.

On a motion by Alderman E. Wesley, seconded by Alderman Catalano, to approve the individual items on the Consent Agenda, including Items 1 through 4. When the question was put, a roll call vote was taken with the following results:

Ayes: Aldermen Catalano, Jakab, Messina, Sorrentino, Susmarski, E. Wesley and Woods

Nays: None

Whereupon the Mayor declared the motion carried.

#### IX. COMMITTEE CHAIR REPORTS

##### A. **Planning, Zoning and Building Committee**

No report

##### B. **Public Health, Safety, Judiciary and Ethics Committee**

No Report

##### C. **Public Works Committee**

- i. *A Resolution Supporting the Submission and Execution of an Illinois Transportation Enhancement Program (ITEP) Application and Agreement between the City of Wood Dale and Illinois Department of Transportation*

On a motion by Alderman Catalano, seconded by Alderman E. Wesley, to approve *A Resolution Supporting the Submission and Execution of an Illinois Transportation Enhancement Program (ITEP) Application and Agreement between the City of Wood Dale and Illinois Department of Transportation.*

When the question was put, a roll call vote was taken with the following results:

Ayes: Aldermen Catalano, Jakab, Messina, Sorrentino, Susmarski, E. Wesley and Woods

Nays: None

Whereupon the Mayor declared the motion carried.

- ii. *Approval of Pay Request No. 1 (Final) to Globe Construction, Inc. for the FY 2021 Sidewalk Replacement Program in the Amount of \$21,342*

On a motion by Alderman Catalano, seconded by Alderman E. Wesley, to approve *Approval of Pay Request No. 1 (Final) to Globe Construction, Inc. for the FY 2021 Sidewalk Replacement Program in the Amount of \$21,342.*

When the question was put, a roll call vote was taken with the following results:

Ayes: Aldermen Catalano, Jakab, Messina, Sorrentino, Susmarski, E. Wesley and Woods

Nays: None

Whereupon the Mayor declared the motion carried.

**D. Finance and Administration Committee**

- i. *A Resolution Amending Resolution R-20-42, a Resolution Approving the Tax Increment Financing Terms for the Bryn Mawr Avenue Addition to Wood Dale*

On a motion by Alderman Woods, seconded by Alderman Susmarski, to approve *A Resolution Amending Resolution R-20-42, a Resolution Approving the Tax Increment Financing Terms for the Bryn Mawr Avenue Addition to Wood Dale.*

When the question was put, a roll call vote was taken with the following results:

Ayes: Aldermen Catalano, Jakab, Messina, Sorrentino, Susmarski, E. Wesley and Woods

Nays: None

Whereupon the Mayor declared the motion carried.

**X. OTHER BUSINESS**

- A. Airport Noise Committee  
No report
- B. Stormwater Commission Report:  
No report

X. APPROVAL OF LIST OF BILLS: October 15, 2020 - - \$1,439,026.31

On a motion by Alderman Woods, seconded by Alderman E. Wesley, to approve the October 15, 2020 payment of the List of Bills, for the total amount of **\$1,439,026.31** for the following:

• General Fund	\$	205,617.93
• Road & Bridge Fund	\$	247.31
• Motor Fuel Tax Fund	\$	15,239.79
• Tourism Fund	\$	17,256.00
• Narcotics Fund	\$	34.95
• TIF District #1	\$	-
• TIF District #2	\$	-
• Capital Projects Fund	\$	965,334.44
• Land Acquisition Fund	\$	-
• Commuter Parking Lot Fund	\$	270.90
• Sanitation Fund	\$	(116.12)
• Water & Sewer Fund	\$	235,141.11
• CERF	\$	-
• Special Service Area Fund	\$	-
<b>Total of all Funds:</b>	<b>\$</b>	<b>1,439,026.31</b>
<b>Total Number of Checks:</b>		<b>63</b>

When the question was put a roll call vote was taken with the following results:

Ayes: Aldermen Catalano, Jakab, Messina, Sorrentino, Susmarski, E. Wesley and Woods

Nays: None

Whereupon the Mayor declared the motion carried.

XI. EXECUTIVE SESSION

None

XII. ITEMS TO BE REFERRED

None

XIII. ITEMS FOR INFORMATION ONLY

None

XIV. ADJOURNMENT

On a motion by Alderman Susmarski, seconded by Alderman Sorrentino, to adjourn the Regular Meeting of October 15, 2020. When the question was put, all Aldermen voted in the Affirmative

Whereupon the Mayor declared the meeting adjourned at 7:52 p.m.

*Minutes Taken by City Clerk Lynn Curiale*

*Reviewed by Legal Counsel Patrick Bond*





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## **REQUEST FOR COUNCIL ACTION**

Referred to Council: November 5, 2020  
Subject: Resolution to Approve Façade & Site Improvements – 414-420 & 422 E. Irving Park  
Staff Contact: Ed Cage, Community Development Director  
Department: Community Development Department

**TITLE:** A Resolution to Approve an Agreement for Façade and Site Improvements at 414-420 E. Irving Park Road and 422 E. Irving Park Road in an Amount Not to Exceed \$128,232.36

**COMMITTEE VOTE:** Approve 7 - 0

**RECOMMENDATION:**

Staff recommends to approve the requested façade and site improvements for 414-420 E. Irving Park Road and 422 E. Irving Park Road in an amount not to exceed \$128,232.36

**ANALYSIS:**

The applicant is requesting a Façade Improvement Grant for up to \$128,232.36 for the subject property. The proposed façade improvements include storefront improvements with the construction of portico entrances with clay tile canopies, the demolition of an existing mansard roof and construction of raised parapet walls, and the installation of awnings. Also, new landscaping will be added, along with a new monument sign, exterior lighting and a new dumpster enclosure to the rear of the property. Streetscape and Economic Enhancement Committee and Committee agreed unanimously to approve the façade and site improvement application up to \$128,232.36

**DOCUMENTS ATTACHED**

- Resolution
- Agreement

**RESOLUTION NO. R-20-77**

**A RESOLUTION TO APPROVE AN AGREEMENT  
FOR FACADE AND SITE IMPROVEMENTS  
AT 414-420 E. IRVING PARK ROAD AND 422 E. IRVING PARK ROAD  
IN AN AMOUNT NOT TO EXCEED \$128,232.36**

**WHEREAS**, the City of Wood Dale ( "City") is a body politic and corporate, organized and existing pursuant to the Illinois Municipal Code, 65 ILCS 5/1-1-1 *et seq.*; and

**WHEREAS**, the City is authorized and empowered under the Illinois Municipal Code, and its Ordinances adopted pursuant thereto, to enter into agreements and to contract for goods and services; and

**WHEREAS**, the City Council of the City has previously approved and adopted a Façade Improvement Program to encourage improvement to commercial properties in the Town Center and along the City's main commercial corridors; and

**WHEREAS**, Itasca Bank and Trust Co., not personally, but as Trustee U/T/A #1225 Dated February 17, 2006 is the owner of property located at 414-420 East Irving Park Road, Wood Dale, Illinois ("Property"); and

**WHEREAS**, beneficiary of the Trust identified as the Owner of the Property is DeAstis Partners, LLC, which has applied for a façade and site improvement grant for the Property, which is located on one of the City's main corridors, Irving Park Road; ; and

**WHEREAS**, the City and the Applicant have negotiated an agreement for façade and site improvements at 414-420 E. Irving Park Road, which project encompasses site improvements on the Property and on adjacent property located at 422 E. Irving Park Road ("Façade Improvement Agreement") in the form attached hereto and incorporated herein by reference as Exhibit A; and

**WHEREAS**, the City Council has reviewed the Façade Improvement Agreement and deems it in the best interests of the City and its residents to authorize execution of the Façade Improvement Agreement on the terms set forth therein.

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY OF WOOD DALE, DUPAGE COUNTY, AN ILLINOIS CORPORATION**, duly assembled in regular session, as follows:

SECTION 1: The recitals set forth above are incorporated herein and made a part hereof.

SECTION 2: That the Facade Improvement Agreement with DeAstis Partners, LLC for the façade and site improvements of the property at 414-420 E. Irving Park Road and 422 E. Irving Park Road, attached hereto as Exhibit "A", is approved and accepted, in an amount not to exceed \$128,232.36.

SECTION 3: The Mayor is authorized and directed to execute the Façade Improvement Agreement on behalf of the City of Wood Dale, which signature shall be attested to by the City Clerk.

SECTION 4: The City Manager, staff and/or the City Attorney shall take the steps necessary to put the terms and conditions of the Façade Improvement Agreement into effect.

SECTION 5: That all ordinances and resolutions, or parts thereof in conflict with the provisions of this Resolution are, to the extent of such conflict, hereby repealed.

SECTION 6: That this Resolution shall be in full force and effect from and after its adoption, approval and publication in pamphlet form as provided by law.

PASSED this 5th day of November, 2020.

AYES: \_\_\_\_\_

NAYS: \_\_\_\_\_

ABSENT: \_\_\_\_\_

APPROVED this 5th day of November, 2020.

SIGNED: \_\_\_\_\_  
Annunziato Pulice, Mayor

ATTEST: \_\_\_\_\_  
Lynn Curiale, City Clerk

**Exhibit A**

**Façade Improvement Agreement**

**AGREEMENT  
FOR FAÇADE AND SITE IMPROVEMENTS  
AT 414-420 E. IRVING PARK ROAD AND 422 E. IRVING PARK ROAD  
WOOD DALE, ILLINOIS**

**THIS AGREEMENT**, entered into this 5th day of November, 2020 between the City of Wood Dale, Illinois ("City"), an Illinois Municipal Corporation, and De Astis Partners, LLC ("Applicant"), 414-420 E. Irving Park Road, Wood Dale, Illinois, which has applied to the City for a grant to assist with payment of expenditures incurred in connection with certain façade improvements for property located at 414-420 E. Irving Park Road , and for site improvements connected therewith for property located at 414-420 E. Irving Park Road and 422 E. Irving Park Road (collectively "Project Property").

**WITNESSETH**

**WHEREAS**, for purposes of supporting the physical, economic, social and aesthetic well being of the City, the City has adopted a Façade Improvement Program, which provides financial assistance to owners or lessees of properties located within the Town Center Business District or front Wood Dale Road or Irving Park Road which have commercial zoning and whose buildings are at least thirty (30) years old;

**WHEREAS**, the Applicant has submitted an application to the City for a grant through the Façade Improvement Program for façade improvements and site improvements to the Project Property; and

**WHEREAS**, proposed façade improvements include storefront improvements, demolition of existing mansard roof and construction of raised parapet walls, staining of exterior brick, replacement/relocation of existing doors and windows and installation of awnings; and

**WHEREAS**, site improvements include elimination of a curb-cut on Irving Park Road, reconfiguration of the existing parking lot, proposed re-alignment of the sidewalk along Irving Park Road, addition of landscaping, signage and site lighting, with an intent to provide shared access from Irving Park Road for both 414-420 and 422 E. Irving Park Road, and construction of a trash enclosure to serve commercial tenants on the Project Property; and

**WHEREAS**, the City has reviewed the application for the façade and site improvements and the supporting documents submitted therewith, and has determined that the façade and site improvements will improve the appearance and/or structural condition of the Project Property and thereby reduce structural blight, dilapidation, and deterioration along Irving Park Road; and

**WHEREAS**, the Project Property is an eligible for grant funding under the City's Façade Improvement Program; and

**WHEREAS**, the façade and site improvements contemplated herein are eligible expenses under the Façade Improvement Program; and

**WHEREAS**, accordingly, the City is willing to reimburse the Applicant for a portion of the costs of the façade and site improvements in the amount and on the terms and conditions stated below, and the Applicant agrees to and is willing to accept such amount on the terms and conditions stated herein.

**NOW, THEREFORE**, in consideration of the mutual covenants and agreement obtained herein, the City and Applicant do hereby agree as follows:

**Section 1. FAÇADE PAYMENT AMOUNT.** The City shall pay the Applicant fifty percent (50%) of eligible costs, up to an amount not to exceed One Hundred Twenty-Eight Thousand, Two Hundred Thirty-Two Thousand and 36/100 Dollars (\$128,232.36) (“Façade Payment”) for, and only for the costs of façade and site improvements, as set forth in the application submitted for a grant through the Façade Improvement Program, and as itemized in the Staff Report, dated October 5, 2020, submitted to the Streetscape & Economic Enhancement Committee, attached hereto and incorporated herein by reference as Exhibit A, and, thereafter updated pursuant to Committee request. No portion of any costs for the demolition, repair, rebuilding, improvement, or updating of any portion of the Project Property, other than for the façade and site improvements delineated in the Staff Report, shall be eligible for the Façade Payment. The amount of any grants, gifts, donations, or other consideration, including the value of any materials or services in-kind, for which there is no obligation of repayment or other consideration given, shall be deducted from the total costs of the façade and site improvements to determine the costs eligible for the Façade Payment. The costs of licenses, re-inspections, and fines and penalties by governmental agencies shall not be eligible for Façade Payment.

Pursuant to the City’s Façade Improvement Program Policy, the Façade Payment shall be made upon completion of the improvements in one payment.

**Section 2. CONDITIONS OF ENTITLEMENT TO FAÇADE PAYMENT.** The Applicant shall not be entitled to the Façade Payment until all of the following have been complied with in accordance with the payment schedule set forth herein:

1. All permits, licenses and easements required for the façade and site improvements must have been secured and paid for within forty-five (45) days of the execution of this Agreement, unless otherwise extended and agreed to by the Parties. All permits must be secured and paid for within ninety (90) days of the grant approval, unless otherwise extended and agreed to by the Parties.
2. All required plans and specifications for the façade and site improvements must have been submitted to and reviewed and approved by the City and all other governmental agencies having jurisdiction over the façade and site improvements.
3. All work submitted for Façade Payment, as identified in the Staff Report attached hereto as Exhibit A, must have been commenced within thirty (30) days of the availability of the required permits and licenses for issuance. Unless delays are caused by weather, acts of God, or other events beyond the control of the Applicant or its contractor, the work shall be fully completed and inspected and

approved by the City and all other governmental agencies having jurisdiction over the façade and site improvements within three hundred sixty-five (365) days of approval of this Agreement.

4. The Applicant shall submit all required “as built” plans and specifications that are in substantial compliance with Exhibit A.
5. Upon completion of the façade and site improvements and all required final inspections, the Applicant shall submit to the City a properly executed and notarized contractor statement and architect fee statement showing the full cost of the work, as well as each separate component amount due to the contractor and each and every subcontractor involved in furnishing labor, materials, or equipment in the work. In addition, the Applicant shall submit to the City proof of payment of the contract cost pursuant to the contractor's and the architect's statements and waivers or releases of liens from each contractor and subcontractor.
6. The Project Property and its usage shall be in full compliance with the codes and ordinances of the City and all other applicable laws.

**Section 3. FAILURE TO COMPLETE WORK.** If the Applicant or any Agent on its behalf fails to complete the façade and site improvements in conformity with the plans and specifications therefor and secure the required final inspections and approvals, this Agreement shall terminate and all obligations on the part of the City for the Façade Payment shall cease and become null and void.

**Section 4. MAINTENANCE OF FAÇADE IMPROVEMENTS.** Upon completion of the façade and site improvements pursuant to this Agreement, the Applicant, its successors, and/or assigns shall be responsible for properly maintaining them in their finished form and without change or alteration thereto, except as may be approved by the City, for a period of three (3) years from completion. For any violation of this Section, the City shall have cause of action against the Applicant, its successors, and or assigns for recovery of the full amount of the Façade Payment and its costs and expenses of litigation, including attorney's fees, costs and expenses.

**Section 5. UNRELATED IMPROVEMENTS.** Nothing herein is intended to limit, restrict or prohibit the Applicant from undertaking any other work in or about the Project Property which is unrelated to the façade and site improvements provided for in this Agreement.

**Section 6. AGREEMENT APPLICABLE TO SUCCESSORS AND ASSIGNS.** This Agreement shall be binding upon the Applicant and its successors and assigns of the Project Property for a period of three (3) years from and after the date of completion and approval of the improvements provided for herein. It shall be the responsibility of the Applicant to inform all such successors and assigns of this Agreement.

**Section 7. OTHER AGREEMENTS AND REQUIREMENTS.** The Applicant expressly understands and agrees that the façade and site improvements are wholly a private

undertaking of the Applicant and that they are not a public work and that, other than to the extent in this Agreement, there is no joint venture or partnership, or other business arrangement between Applicant and the City with respect to them.

**Section 8. HOLD HARMLESS, INDEMNIFICATION.** To the fullest extent permitted by law, the Applicant hereby agrees to defend, indemnify, and hold harmless the City its officials, agents, employees, and volunteers against all injuries, deaths, loss, damages, claims, patent claims, suits, liabilities, judgments, costs and expenses which may in any way accrue against the City, its officials, agents, employees, and volunteers arising in whole or in part or in consequence of the Agreement and/or the undertaking of the façade and site improvements by the Applicant, its employees, contractors, or subcontractors, or which may in any way result therefrom. The Applicant shall, at its own expense, appear, defend, and pay all charges of attorneys, witnesses, and consultants and all costs and other expenses arising therefrom or incurred in connections therewith, and, if any judgment shall be rendered against the City, its officials, agents, employees, and volunteers in any such action, the Applicant shall, at its own expense, satisfy and discharge the same.

Applicant expressly understands and agrees that any performance bond or insurance policies shall in no way limit its responsibility to indemnify, keep and save harmless and defend the City its officials, agents, employees, and volunteers as herein provided.

Notwithstanding the City's obligation to make the Façade Payment to the Applicant, the Applicant further agrees that the entire Façade Payment or any portion thereof due the Applicant by virtue of this Agreement may be retained by the City, as shall be considered necessary in the sole judgment of the City, to protect itself against said loss until such claims, suits, or judgments shall have been settled or discharged and/or evidence to that effect shall have been furnished to the satisfaction of the City.

**Section 8. PERFORMANCE OF AGREEMENT.** It is agreed that the City may in law or in equity, by suit, action or any other proceeding, including specific performance, enforce or compel the performance of this Agreement, which shall include the right to recover a judgment for monetary damages provided, however, that the City shall not have the right to recover any indirect, special, punitive, incidental, or consequential damages. Further, the Applicant or its successors or assigns shall not have a right to recover a judgment for monetary damages against any elected or appointed official, employee, or volunteer of the City for any breach of any of the terms of this Agreement, and that the total liability of the City for any and all claims hereunder shall not exceed the Façade Payment amount as provided for herein.

**Section 9. MULTIPLE ORIGINALS.** This Agreement may be executed in multiple originals, which, when combined, shall constitute the fully executed Agreement.



IN WITNESS THEREOF, the Parties hereto have executed this Agreement on the date first appearing above.

APPLICANT

CITY OF WOOD DALE

DeAstis Partners, LLC

\_\_\_\_\_  
Annunziato Pulice, Mayor

By: \_\_\_\_\_

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

Its: \_\_\_\_\_

Lynn Curiale, City Clerk

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

**Exhibit A**  
**Staff Report dated October 5, 2020**

# CITY OF WOOD DALE

Community Development



## MEMO

DATE: Monday, October 5, 2020

TO: Streetscape & Economic Enhancement Committee

FROM: Gosia Pociecha, AICP - Planner

SUBJECT: Façade Improvement Grant for 414-420 E Irving Park Rd, De Astis Partners

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### OVERVIEW

A Façade Improvement Grant application was submitted to request reimbursement for the façade improvement for 414-420 East Irving Park Road and site improvements for 414-420 and 422 East Irving Park Road. The proposed façade improvements include storefront improvements with construction of portico entrances with clay tile canopies, demolition of existing mansard roof and construction of raised parapet walls, staining of the brick, replacement/relocation of existing doors and windows, and installation of awnings. The proposed site improvements include parking lot reconstruction, removing one curb-cut, and restriping to increase the number of parking spaces. New landscaping will be added, along with a new monument sign and exterior lighting.

### ANALYSIS

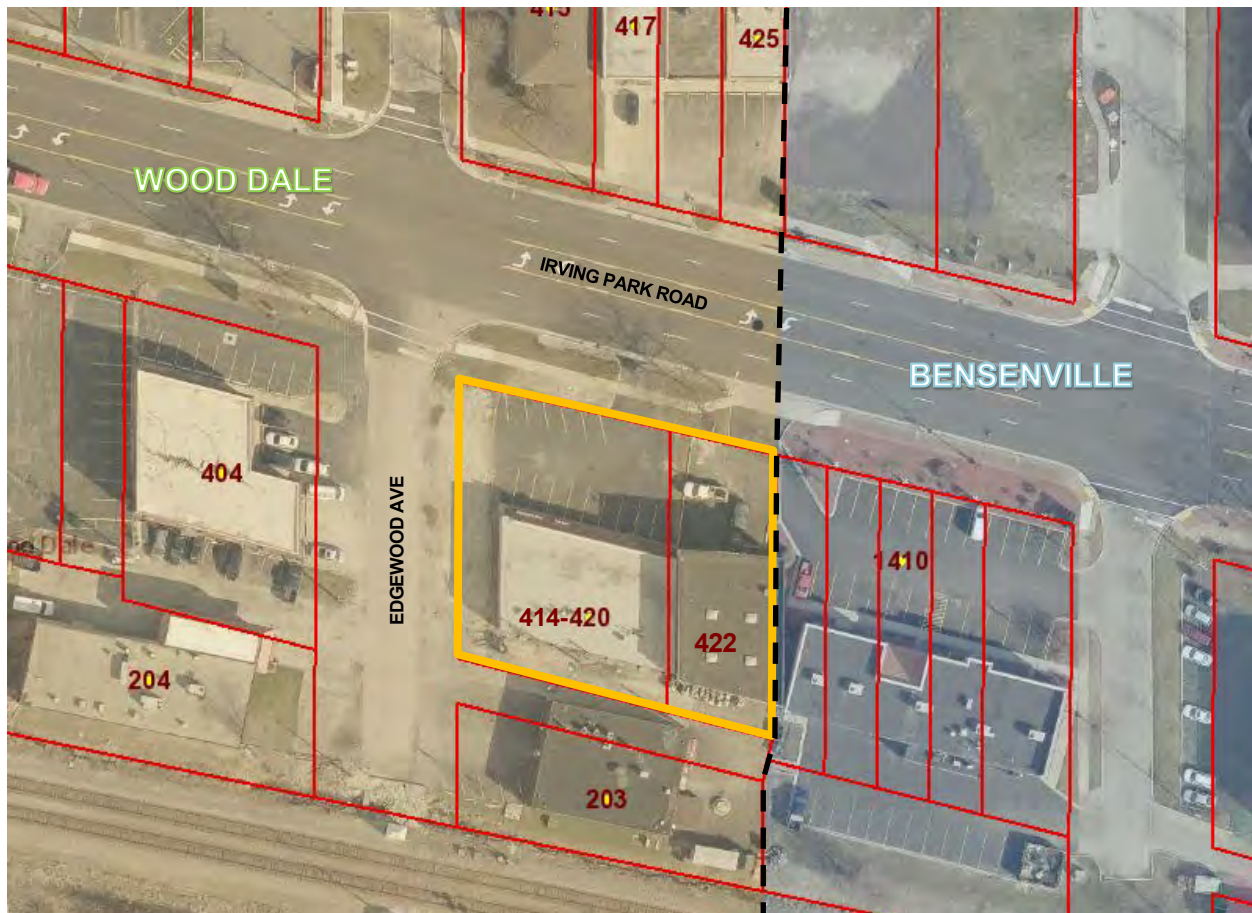
#### **Submittals**

The analysis and recommendation provided in this memo are based on the following documents, which are on file in the Community Development Dept. and attached as noted:

- Façade Improvement Program Application
- Proof of Ownership
- Plat of Survey (Exhibit A)
- Photos of the existing building (Exhibit B)
- Description of proposed improvements and detailed contractor cost estimates (Exhibit C)
  1. Façade Improvement quotes
  2. Parking Lot Reconstruction quotes
- Architectural Plans (Exhibit D)
- Site Engineering and Landscape Plan (Exhibit E)
- Auto turn Diagrams

## Project Description

The subject property is located at the southeast corner of Irving Park Road and Edgewood Ave, commonly known as 414-420 E Irving Park Rd. The site is approximately 0.29 acres in size and is improved with a one-story brick commercial building with four (approx. 1000sf each) tenant units and surface parking. Part of the parking lot improvements will also affect the property located at 422 E Irving Park Road which is approximately 0.15 acres in size and is improved with two-story brick & cinder block commercial building and surface parking. This building is occupied by Losecco Tile and Stone Design providing ceramic tile and granite countertop services (see the location map below).



The subject site is located within the C-3, Automotive Services zoning district established to provide a variety of auto oriented and service businesses. However, commercial uses generally including a wide range of retail, food service, service, office and repair businesses are also permitted in the C-3 district.

## Background

The applicant, who is the owner of 414-420 E Irving Park Road, intends to provide improvements to the subject site and the existing building including elevation updates. He has previously applied to the City for required zoning relief related to the parking lot reconfiguration. The public hearing was held before the Community Development

Commission in February of 2020 and received positive recommendation. The zoning variation requests will move forward to the Planning, Zoning and Building (PZB) and City Council along with the Façade Improvement Grant application being considered today. The property owner has also been working with the Community Development Department on building permits to update the interiors of the commercial units.

### **Façade and Site Improvements**

The proposed façade improvements include storefront improvements with construction of two new portico entrances with clay tile canopies, demolition of existing mansard roof and construction of raised parapet walls, staining of the brick, replacement/relocation of existing doors and windows, and installation of awnings

The scope of the site improvements includes elimination of one curb-cut on Irving Park Road, reconfiguration of the existing parking lot, proposed re-alignment of the sidewalk along Irving Park Road (pending IDOT permit approval), addition of landscaping, signage and site lighting. The intent is to provide shared access from Irving Park Road via the adjacent 422 E Irving Park Road property (Losecco Tile). The applicant has submitted draft parking lot easement and maintenance agreements which will be executed between the subject site and adjacent property. Mr. Losecco has submitted a written statement confirming that he is aware of this project and is in support.

In addition, the project includes modifications to the existing parking spaces along Edgewood Avenue. Currently, there are 10 parking spaces which encroach from the private property onto Edgewood right-of-way. The applicant is proposing reduction to 8 parking spaces to accommodate a new driveway for the subject site. The applicant also submitted a draft license agreement, since the parking spaces are partially on public property. This document is currently under review by City Attorneys.

Lastly, the applicant is proposing to construct a large trash enclosure behind the Asti Deli property in Bensenville (also owned by the applicant). This trash enclosure would serve the 4 commercial tenants of the subject site, Losecco Tile & Stone Design, as well as Asti Deli. Due to limited availability of open space behind the existing buildings, the proposed location provides an ideal solution to keep the trash receptacles screened from the public view.

### *Eligible Expenses*

The applicant received multiple proposals for the proposed façade renovation and site improvements, see Exhibit C. The project exceeds the minimum total construction value of \$10,000 and is eligible for reimbursement.

Per the Façade Improvement Program Policy, improvements that qualify for reimbursement include façade improvements that improve the appearance of the building by change of materials or colors, including painting. Replacement of doors and windows is also eligible, as well as renovation of entry features. Planting new landscaping is an eligible expense. However, items categorized as routine maintenance or improvements beyond the street facing façade/or areas visible from the public right-of-way are not eligible.

The following table lists the cost comparisons for the entire scope of the project. The applicant was not able to secure three separate estimates for each of the scopes of the project. There is only scope (traffic control) where only one quote was provided.

<b>FAÇADE IMPROVEMENTS</b>	<b>Lowest Cost</b>	<b>Cost #2</b>	<b>Cost #2</b>
Demolition	\$ 5,400.00	\$ 6,000.00	
Excavation and backfill	\$ 4,200.00	\$ 4,750.00	
Concrete	\$ 3,875.00	\$ 4,950.00	\$ 5,260.00
Masonry	\$ 12,950.00	\$ 15,400.00	\$ 15,900.00
Structural metal framing	\$ 15,301.00	\$ 16,750.00	Not bidding
Carpentry	\$ 7,450.00	\$ 9,625.00	Not bidding
Roofing	\$ 9,860.00	\$ 11,750.00	Not bidding
Glass and glazing	\$ 25,500.00	\$ 26,800.00	\$ 28,950.00
Stucco	\$ 20,750.00	\$ 21,875.00	\$ 22,800.00
Brick staining	\$ 6,275.00	\$ 7,400.00	\$ 8,250.00
Electrical	\$ 4,800.00	\$ 5,900.00	\$ 6,340.00
Awnings	\$ 8,999.00	\$ 10,550.00	
Architect <sup>1</sup>	\$ 18,770.00		
General conditions <sup>1</sup>	\$ 6,450.00		
Supervision <sup>1</sup>	\$ 8,750.00		
<b>TOTAL</b>	<b>\$ 159,330.00</b>		

<b>PARKING LOT</b>	<b>Lowest Cost</b>	<b>Cost #2</b>	<b>Cost #2</b>
Demolition	\$ 4,020.00	\$ 6,300.00	see below
Excavation and backfill	\$ 10,390.00	\$ 10,650.00	see below
Paving	\$ 19,100.00	\$ 45,995.00	see below
Concrete	\$ 9,605.00	\$ 18,500.00	\$145,500.00
Masonry	\$ 4,200.00	\$ 6,350.00	
Landscaping	\$ 5,060.00	\$ 6,400.00	
Signage	\$ 28,880.00	\$ 36,862.00	Not bidding
Electrical	\$ 6,500.00	\$ 9,300.00	
Storm sewer	\$ 700.00	\$ 1,350.00	
Trash enclosure <sup>2</sup>	\$ 8,450.00	\$ 10,790.00	
Traffic control <sup>3</sup>	\$ 3,585.00		
Site engineering <sup>1</sup>	\$ 10,980.00		
Building permit allowance <sup>4</sup>	\$ 5,000.00		
Light fixtures	\$ 3,200.00	\$ 4,750.00	
Supervision <sup>1</sup>	\$ 8,500.00		
General conditions <sup>1</sup>	\$ 9,450.00		
<b>TOTAL</b>	<b>\$ 137,620.00</b>		

<sup>1</sup> Fees related to architectural/engineering drawings and construction management may be eligible for reimbursement. SEEC to consider if these cost is eligible since only one quote was provided for each.

<sup>2</sup> Trash enclosure is an eligible cost under the program policy, however, the proposed structure is not highly visible from the public right of way. SEEC to consider if this cost is eligible.

<sup>3</sup> Only one quote provided for Traffic Control. SEEC to consider if this cost is eligible.

<sup>4</sup> The scope of the work is divided into multiple permits. Not all permit fees are available at this time as they will be dependent on the total square footage of improvement. The estimated permit fees provided.

### *Existing Conditions*

Image below shows the front of the building, prior to the façade improvements. More images of existing conditions are included in Exhibit B, while the proposed final renovation illustrations are attached in Exhibit D.



*View of subject property looking south-east from Edgewood Ave*

### **Façade Improvement Scoring**

<b>CRITERIA</b>	<b>POINTS</b>
<b>Visual Impact</b>	
<i>Improved curb appeal</i> The curb appeal of the property is being improved by redesigning of the front façade. The existing brick will be re-painted, windows/door removed and replaced and significant modifications to the roof are proposed. Additional landscaping is also being proposed. The intent is to make the building and site more inviting and modern.	3
<i>Improved pedestrian experience</i> The proposed project will have fair improvement on pedestrian experience by addition of portico entries and awnings. Sidewalk along Irving Park Road will be relocated to better align with existing sidewalk sections on adjacent properties and to provide buffer from parking lot. New landscaping, signage and lighting is also being installed providing pedestrians with visual appeal.	2

<i>Significant visual improvements</i> The proposed modifications include a significant change to the front elevation which has visibility from Irving Park Road. The roof line will be modified and two new portico entrances with clay tiles will be installed as entry points.	3
<b>Financial Impact</b>	
The proposed improvements are not limited to the façade improvement renovation eligible for grant funding. The interior of the building has been undergoing significant renovations. The applicant is leveraging more private investment than required to obtain grant funding.	3
The proposed project is part of a larger project that improves both the façade and site. In addition to the façade and site improvements, the applicant is also updating the interior of the commercial units.	3
<b>Property Use</b>	
The commercial building consist of space is used for a variety of retail operations. There are a total of 4 units.	4
Points Total:	18

When asked to submit a façade improvement scoring sheet, the applicant scored their projects at 16. The scoring discrepancy was caused by the applicant not selecting the correct answer under the Fiscal Impact question.

## RECOMMENDATION

Staff recommends to enter into a grant agreement to reimburse the applicant fifty percent (50%) of eligible costs. The Streetscape and Economic Enhancement Committee is asked to verify the eligible costs. Based on the lowest estimate provided by the applicant, and excluding the potentially ineligible costs (trash enclosure, traffic control, architect/engineer fees, supervision, general conditions), the total reimbursement value shall not exceed one hundred eleven thousand seven dollars and fifty cents (\$111,007.50) (or 50% of \$222,007.50). Staff's recommendation is based on the eligibility of the project and the façade improvement scoring criteria, which totaled to 18 points. The project exceeds the \$10,000 minimum cost valuation requirement, the property is greater than 30 years old and the proposed improvements fall under the façade improvement and renovation category of improvements.





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## **REQUEST FOR COUNCIL ACTION**

Referred to Council: November 5, 2020  
Subject: Ordinance Approving Parking Variances &  
Resolution Approving License for Use of City  
Parking – for 414-420 & 422 E. Irving Park Rd  
Staff Contact: Ed Cage, Community Development Director  
Department: Community Development Department

**TITLE:** An Ordinance Granting Variances to Allow Parking Lot Improvements and a Resolution Approving a Non-Exclusive License Agreement for the Use of City Property for Parking at 414-420 E. Irving Park Road and 422 E. Irving Park Road, Wood Dale, Illinois

**COMMITTEE VOTE:** Approve 7 - 0

**RECOMMENDATION:**

Staff recommends to approve the requested parking lot variances to facilitate the parking lot improvements and a non-exclusive license agreement for the use of City property for parking.

**ANALYSIS:**

It is widely acknowledged that most properties along Irving Park Road are small in size and present considerable hurdles for redevelopment. Due to the limited lot size and unique lot layout, the applicant is requesting variances for:

1. Variance for a reduction in the front and corner side lot line from 10-feet to 1-foot.
2. Variance to allow a reduction from 30-feet to 19-feet between a driveway and an intersecting right-of-way.
3. Variance for a reduction in the required transition space for a driveway from a public right-of-way from 30-feet to 5-feet.
4. Variance to allow a reduction in landscaping requirements.

The applicant is acutely aware that the off-street parking requirements are important to the City and is not a permitted variance. Therefore the applicant is proposing a non-exclusive agreement with the City to utilize parking that is located within the City right-of-way (Edgewood Avenue) for that reason. It is also important to note that the applicant is consolidating access to their property, per IDOT requirements.

**DOCUMENTS ATTACHED**

- ✓ An Ordinance Granting Variances to Allow Parking Lot Improvements at 414-420 E. Irving Park Road and 422 E. Irving Park Road, Wood Dale, Illinois.
- ✓ A Resolution Approving a Non-Exclusive License Agreement for the Use of City Property for Parking 414-420 E. Irving Park Road and 422 E. Irving Park Road, Wood Dale, Illinois.
- ✓ DeAstis Edgewood Parking Space License Agreement dated 5<sup>th</sup> November 2020.
- ✓ Exhibit 1 – Memo Case CDC-2020-03.

**ORDINANCE NO. O-20-029**

**AN ORDINANCE GRANTING VARIANCES TO ALLOW  
PARKING LOT IMPROVEMENTS  
AT 414-420 E. IRVING PARK ROAD AND 422 E. IRVING PARK ROAD, WOOD  
DALE**

**WHEREAS**, the City of Wood Dale (the “City”) is a body politic and corporate, organized and existing pursuant to the Illinois Municipal Code, 65 ILCS 5/1-1-1 *et seq.*; and

**WHEREAS**, the City is authorized and empowered, under the Illinois Municipal Code and the Code of Ordinances of the City of Wood Dale (“City Code”), to regulate properties located within the municipal boundaries of the City; and

**WHEREAS**, in furtherance of this authorization, the City has adopted a Unified Development Ordinance (“UDO”), codified in Chapter 17 of the City Code, which sets forth regulations regarding the use of property within the City; and

**WHEREAS**, section 17.607 of the UDO provides regulations for off-street parking and loading and section 17.606 sets forth regulations for landscaping; and

**WHEREAS**, DeAstis Partners, LLC, (“Applicant”), the beneficiary of the Trust which is the owner of the property located at 414-420 W. Irving Park Road, filed an application for variations from strict compliance with the UDO to allow construction of parking lot improvements to serve the property and that property located at 422 E. Irving Park Road, which has provided its written support for the application, which application is identified as Case No. CDC-2020-03; and

**WHEREAS**, on February 24, 2020, the Community Development Commission held a public hearing on the variances sought by the Applicant in Case No. CDC-2020-03, following the necessary publication of a legal notice pursuant thereto, as required by law and the City Code; and

**WHEREAS**, variances are being sought by the Applicant to allow improvements to 414-420 E. Irving Park Road and 422 E. Irving Park Road (collectively, the “Property”), which will include elimination of one curb-cut on Irving Park Road, reconfiguration of the existing parking lot, proposed re-alignment of the sidewalk along Irving Park Road, addition of landscaping, signage and site lighting; and

**WHEREAS**, to accommodate redevelopment of the Property, the Applicant requires a variance from Code Sections 17.607.C.5, 17.607.D.3.c(3)(A)(iii) and 17.607.D.3.c(3)(B), reducing, respectively: (1) the space between parking and a front and corner line from the required ten (10) feet to one (1) foot; (2) the required distance between a driveway along a local street and an intersecting right of way from thirty (30) feet to nineteen (19) feet; and (3) the required transition space of driveways which lead

to or from public right of way from thirty (30) feet in length to five (5) feet from the property line along Edgewood Avenue; and

**WHEREAS**, in recognition of the limited space on the Property, the Applicant seeks a variation from required landscape improvements set forth in Section 17.606, to provide landscaping as delineated in the Staff Report dated February 24, 2020, attached hereto and incorporated herein by reference as Exhibit 1; and

**WHEREAS**, following said hearing, the Community Development Commission voted 4-0, with one abstention and 2 members absent, to recommend approval of the proposed variances, predicated on testimony presented, and on Findings of Fact set forth in the Staff Report; and

**WHEREAS**, the proposed variances, as recommended for approval by the Community Development Commission, have been considered by the Planning, Zoning and Building Committee of the City Council of the City of Wood Dale, which has also recommended approval of the variances to the UDO to allow for the improvements on the Property; and

**WHEREAS**, the City Council of the City of Wood Dale has reviewed the matter herein and has determined that the same is in the best interests of the health, safety and welfare of the citizens of the City of Wood Dale.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF WOOD DALE, DUPAGE COUNTY, ILLINOIS**, as follows:

**SECTION ONE:** The recitals set forth above are incorporated herein and made a part hereof.

**SECTION TWO:** Applicant in Case No. 2020-CDC-03, is granted the following relief from strict compliance with the UDO:

1. a variance from Code Section 17.607.C.5 to allow the reduction of the space between parking and a front and corner line from the required ten (10) feet to one (1) foot; and

2. a variance from Code Section 17.607.D.3.c(3)(A)(iii) to allow the reduction of the required distance between a driveway along a local street and an intersecting right of way from thirty (30) feet to nineteen (19) feet; and

3. a variance from Code Section 17.607.D.3.c(3)(B), to allow the reduction in the required transition space of driveways which lead to or from public right of way from thirty (30) feet in length to five (5) feet from the property line along Edgewood Avenue; and

4. a variation from required landscape improvements set forth in Section

17.606, to provide landscaping as delineated in Exhibit A, to the Staff Report attached hereto and incorporated herein by reference as Exhibit 1.

**SECTION THREE:** The zoning relief granted in Section Two is predicated on the Application and testimony presented relative to the common ownership or possession of the zoning lot and the site of the parking facilities, which are reasonably certain to continue and in recognition that the off-site parking facilities will be maintained at all times during the life of the use of the building on the Property located at 414-420 E. Irving Park Road and 422 E. Irving Park Road.

**SECTION FOUR:** That all ordinances or parts thereof, in conflict with the provisions of this Ordinance are, to the extent of such conflict, hereby repealed.

**SECTION FIVE:** That the City Clerk of the City of Wood Dale is hereby directed to publish this Ordinance in pamphlet form, pursuant to the statutes of the State of Illinois.

**SECTION SIX:** That this Ordinance shall be in full force and effect from and after its passage, approval, and publication in the manner provided by law.

PASSED this 5th day of November, 2020.

AYES: \_\_\_\_\_

NAYS: \_\_\_\_\_

ABSENT: \_\_\_\_\_

APPROVED this 5th day of November, 2020.

SIGNED: \_\_\_\_\_  
Annunziato Pulice, Mayor

ATTEST: \_\_\_\_\_  
Lynn Curiale, City Clerk

Published in pamphlet form \_\_\_\_\_, 2020

**RESOLUTION NO. R-20-78**

**A RESOLUTION APPROVING A NON-EXCLUSIVE LICENSE AGREEMENT  
FOR THE USE OF CITY PROPERTY FOR PARKING  
414-420 E. IRVING PARK ROAD AND 422 EAST IRVING PARK ROAD, WOOD  
DALE**

**WHEREAS**, the City of Wood Dale (“City”) is a body politic and corporate, organized and existing pursuant to the Illinois Municipal Code, 65 ILCS 5/1-1-1 *et seq.*; and

**WHEREAS**, the City is authorized and empowered under the Illinois Municipal Code, and its Ordinances adopted pursuant thereto, to enter into license agreements for the use of its real property; and

**WHEREAS**, under 11-80-2 of the Illinois Municipal Code, 65 ILCS 5/11-80-2, the City is authorized to regulate the use of its streets; and

**WHEREAS**, ITASCA BANK AND TRUST CO., NOT PERSONALLY, BUT AS TRUSTEE U/T/A #12225 DATED FEBRUARY 17, 2006 (“Owner”) is the owner of property located within the corporate limits of the City of Wood Dale, commonly identified as 414-420 East Irving Park Road, Wood Dale, Illinois (“Property”); and

**WHEREAS**, the Property is at the southeast corner of Irving Park Road and the City-owned street, known as Edgewood Avenue; and

**WHEREAS**, the Owner is seeking City approval to provide improvements to the Property and building located thereon; and

**WHEREAS**, included in the improvements is the reconfiguration of the existing parking lot, which will provide for new access to the parking lot, and will reduce the number of existing parking spaces along Edgewood Avenue, which at present intrude onto the City right of way; and

**WHEREAS**, as part of its improvement plans, the Owner seeks to formally recognize its long standing use of parking in the City right of way, and the City staff has reviewed the Owner’s request, and has determined that it is the best interests of the City and the Owner to allow the Owner to continue to use limited portions of the Edgewood Avenue right of way for access and parking; and

**WHEREAS**, the City staff has determined that such use of the right of way will not obstruct or deter public use of Edgewood Avenue and will be of general benefit to the Owner and to the City and its residents by allowing an existing land use in the City to remain in operation, while at the same time, allow improvements to the Property which will enhance the use and appearance of the Property; and

**WHEREAS**, the City deems it desirable to enter into a Non-Exclusive License Agreement allowing the Owner to continue the use of a certain portion of the Edgewood Avenue right of way for access and parking; and

**WHEREAS**, a Non-Exclusive License Agreement (hereinafter the "Agreement") has been negotiated with the Owner, a copy of which is attached hereto and incorporated herein by reference as Exhibit "A;" and

**WHEREAS**, the City Council has reviewed the Agreement and deems it in the best interests of the City and its residents to authorize execution of the Agreement on the terms set forth therein.

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WOOD DALE, DUPAGE COUNTY, ILLINOIS**, as follows:

SECTION 1: The recitals set forth above are incorporated herein and made a part hereof.

SECTION 2: The Agreement with ITASCA BANK AND TRUST CO., NOT PERSONALLY, BUT AS TRUSTEE U/T/A #12225 DATED FEBRUARY 17, 2006, in substantially the same form as attached to this Resolution as Exhibit "A" is approved and accepted by the City of Wood Dale.

SECTION 3: The Mayor is authorized to execute said Agreement on behalf of the City of Wood Dale, which signature shall be attested to by the City Clerk.

SECTION 4: The City Manager, staff and/or the City Attorney shall take the steps necessary to put the terms and conditions of the Agreement into effect.

SECTION 5: That all ordinances and resolutions, or parts thereof in conflict with the provisions of this Resolution are, to the extent of such conflict, hereby repealed.

SECTION 6: That this Resolution shall be in full force and effect, from and after its adoption, approval and publication in pamphlet form, as provided by law.

PASSED this 5th day of November, 2020.

AYES: \_\_\_\_\_

NAYS: \_\_\_\_\_

ABSENT: \_\_\_\_\_

APPROVED this 5th day of November, 2020.

SIGNED: \_\_\_\_\_  
Annunziato Pulice, Mayor

ATTEST: \_\_\_\_\_  
Lynn Curiale, City Clerk



**CITY OF WOOD DALE/ ITASCA BANK AND TRUST CO.,  
NOT PERSONALLY BUT AS TRUSTEE U/T/A #12225 DATED FEBRUARY 17, 2006  
OF ITASCA, ILLINOIS  
LICENSE AGREEMENT**

This Real Property License Agreement (the “Agreement”) is dated as of the 5<sup>th</sup> day of November, 2020 and entered into by and between Itasca Bank and Trust Co., not personally but as Trustee u/t/a #12225 dated February 17, 2006 of Itasca, Illinois (“Licensee”) and the City of Wood Dale, Wood Dale, Illinois (“Licensor”), hereinafter, the “Parties”.

**RECITALS**

WHEREAS, Licensor is the owner of real property commonly known as 414-420 East Irving Park Road, Wood Dale, Illinois 60191, improved with commercial condominium units, and legally described as:

Parcel 1:

Unit 1 in Irving Plaza Condominium, as delineated on a survey of the following described real estate: Lot 1 in Zecchin-Bajzek Subdivision, being a Resubdivision in the Northeast 1/4 of Section 15, Township 40 North, Range 11, East of the Third Principal Meridian, according to the Plat of Zecchin-Bajzek Subdivision recorded December 30, 1981 as Document R81-68808, which Survey is attached as Exhibit "A" to the Declaration of Condominium recorded as Document R82-03752, together with its undivided percentage interest in the common elements .

Parcel 2:

Unit 2 in Irving Plaza Condominium, as delineated on a survey of the following described real estate: Lot I in Zecchin-Bajzek Subdivision, being a Resubdivision in the Northeast 1/4 of Section 15, Township 40 North, Range 11, East of the Third Principal Meridian, according to the Plat of Zecchin-Bajzek Subdivision recorded December 30, 1981 as Document R81-68808, which Survey is attached as Exhibit "A" to the Declaration of Condominium recorded as Document R82-03752, together with its undivided percentage interest in the common elements.

Parcel 3:

Unit 3 in Irving Plaza Condominium, as delineated on a survey of the following described real estate: Lot 1 in Zecchin-Bajzek Subdivision, being a Resubdivision in the Northeast 1/4 of Section 15, Township 40 North, Range 11, East of the Third Principal Meridian, according to the Plat of Zecchin-Bajzek Subdivision recorded December 30, 1981 as Document R81-68808, which Survey is attached as Exhibit "A" to the Declaration of Condominium recorded as Document R82-03752, together with its undivided percentage interest in the common elements.

Parcel 4:

Unit 4 in Irving Plaza Condominium, as delineated on a survey of the following described real estate: Lot 1 in Zecchin-Bajzek Subdivision, being a Resubdivision in the Northeast 1/4 of Section 15, Township 40 North, Range 11, East of the Third Principal Meridian, according to the Plat of Zecchin-Bajzek Subdivision recorded December 30, 1981 as Document R81-68808, which Survey is attached as Exhibit "A" to the Declaration of Condominium recorded as Document R82-03752, together with its undivided percentage interest in the common elements;

**PIN NOS: 03-15-234-001, 002, 003, and 004 (“Property”); and**

WHEREAS; along the westerly edge of the Property are public parking spaces along the easterly curb facing east along the City-owned street known as Edgewood Avenue in Wood Dale Illinois; and

WHEREAS, there are eight (8) parking spaces, approximately eighteen (18) feet in depth, and with the combined length being from the curb cut on to Edgewood from the property on the North to the public alley to the South, which property comprises the Licensed Area, which is shown on the depiction attached hereto and incorporated herein as Exhibit A; and

WHEREAS, Licensor desires to grant to Licensee, its beneficiaries, representatives, guests, lessees, sub-lessees, agents, invitees, customers and invitees of lessee businesses located on the Owner’s property, a non-revocable, non-exclusive license to use the Licensed Area on the terms and conditions set forth below;

NOW, THEREFORE, in consideration of the premises and the mutual covenants and agreements hereinafter set forth, and for other good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, the parties hereto agree as follows:

**1. Grant of License.** Subject to the provisions, covenants and agreements herein contained, Licensor hereby grants to Licensee a non-exclusive license to use the Licensed Area for the purposes herein.

**2. Fee and Deposit.** There shall be no initial or annual fee or deposit required to be paid by Licensee or its successors and assigns in consideration of Licensor executing this Agreement and providing Licensee with access to, and use of, the Licensed Area for the purposes herein.

**3. No Representations; Nature of Licensed Area.** Licensee acknowledges and agrees that the Licensee and its beneficiaries, representatives, guests, lessees, sub-lessees, agents, invitees, customers and invitees of lessee businesses located on the Owner's property, is being provided with access to, and use of, the Licensed Area, and Licensee shall accept the Licensed Area, in its then "as is" condition as of the execution of the Agreement and Licensee's occupation or use of any portion of the Licensed Area shall be conclusive evidence that the Licensed Area was in good order and satisfactory condition when Licensee was granted access. Licensor has not made nor does Licensor make any representations or warranties with respect to the Licensed Area and Licensee agrees that Licensor does not have any obligation to perform any work or otherwise prepare the Licensed Area for Licensee's use other than the customary ongoing public services such as snow plowing and street cleaning and curb and sewer maintenance provided in the past and to be provided in the future.

**4. Alterations.** Licensee shall not make or cause to be made any alterations, installations, improvements, additions or other physical changes in or about the Licensed Area without obtaining the prior written consent of Licensor with respect thereto.

**5. Use.** Licensee, and its beneficiaries, representatives, guests, lessees, sub-lessees, agents, invitees, customers and invitees of lessee businesses located on the Owner's property, may use and access the Licensed Area for parking and for no

other purpose at all times 24 hour per day, 7 day per week and will not allow the Licensed Area to be used for any unlawful purpose.

**6. Requirements of Law.** Licensee shall comply with all present and future laws, rules, orders, ordinances, regulations, statutes, requirements, codes and executive orders affecting the Licensed Area.

**7. Ingress and Egress in Licensee's Licensed Area.** Licensee understands that Licensor, and members of the public and owners and tenants from other properties near the Licensed Area shall be permitted to pass through the Licensed Area at any time to travel, as the parking spaces are on a public street, and that Licensee shall never prevent a navigable path to be used by others through the Licensed Area.

**8. Notice.** Any notice or other communication required or permitted to be given hereunder shall be in writing and shall be deemed to have been duly given to any party (i) upon delivery to the address of such party specified below if delivered in person or by courier, or if sent by certified mail (return receipt requested), postage prepaid:

If to Licensor:

CITY OF WOOD DALE  
Attn: City Manager  
404 N. Wood Dale Rd  
Wood Dale, IL 60191

If to Licensee:

Itasca Bank & Trust Co.  
308 W. Irving Park Road  
Itasca, IL 60143

**9. Governing Law/Amendments.** This Agreement shall be governed by and construed in accordance with the laws of the State of Illinois and may be amended or otherwise modified only by a written instrument duly executed by Licensor and Licensee or their successors or assigns.

**10. Liens.** Licensee shall permit no liens to be filed or recorded against the Licensed Area.

**11. Recording.** This Agreement shall be recorded by Licensee.

**12. Partial Invalidity.** If any one or more of the terms, provisions, promises, covenants or conditions of this Agreement shall to any extent be adjudged invalid, unenforceable, void or voidable for any reason whatsoever by a court of competent jurisdiction, each and all of the remaining terms, provisions, promises, covenants and conditions of this Agreement shall not be affected thereby, and shall be valid and enforceable to the fullest extent permitted by law.

**13. Entire Understanding.** This Agreement and the agreements referred to herein constitute the entire understanding and shall not be changed, altered, modified or discharged except in writing consented to by both parties or both of their successors and assigns.

IN WITNESS WHEREOF, the parties have executed this Agreement as of the Date first above written.

**LICENSOR**

City of Wood Dale, Illinois

By: \_\_\_\_\_  
Annunziato Pulice  
Mayor

**Attest:**

\_\_\_\_\_  
Lynn Curiale  
City Clerk

**LICENSEE**

Itasca Bank & Trust Co.  
as Trustee and not personally

By: \_\_\_\_\_  
Print Name \_\_\_\_\_  
Title: \_\_\_\_\_

Prepared by:

David R Schlueter  
Law Offices of David R Schlueter Ltd  
401 W Irving Park Road  
Itasca IL 60143  
(630) 285-5300

Reviewed and Approved by:

Corporation Counsel  
City of Wood Dale  
404 N. Wood Dale Road  
Wood Dale, IL 60191

# CITY OF WOOD DALE

Community Development



## MEMO

DATE: February 24, 2020  
TO: Community Development Commission  
FROM: Gosia Pociecha, AICP, Planner  
SUBJECT: Case No. CDC-2020-03, Zoning Variations to Allow Parking Lot Improvements, 414-420 & 422 E Irving Park Rd

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### **REQUEST**

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An application has been filed by DeAstis Partners, LLC for Zoning Variations related to parking lot improvements at 414-420 & 422 E Irving Park Road, (PINs 03-15-234-001, 03-15-234-002, 03-15-234-003, 03-15-234-004 and 03-15-215-021), Wood Dale, Illinois.

### **PROPERTY INFORMATION**

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Site Address #1: 414-420 E Irving Park Road  
PINs: 03-15-234-001, 03-15-234-002, 03-15-234-003, 03-15-234-004  
Property Size: 0.29 acres (approx. 12,156 square feet)

Site Address #2: 422 E Irving Park Road  
PINs: 03-15-215-021  
Property Size: 0.15 acres (approx. 6,543 square feet)

Existing Land Use: Retail/Commercial  
Future Land Use: Retail/Commercial  
Existing Zoning: C-3 (Automotive Services)

#### Surrounding Zoning / Land Use

North: C-2 (General Commercial) / Retail/Commercial & Multi-family  
South: I-1 (Light Industrial) / Civic/Institutional  
East: C-2 (Commercial District) - Village of Bensenville  
West: C-3 (Automotive Services) / Retail/Commercial

## ANALYSIS

### Submittals

The analysis and recommendation provided within this memo are based on the following documents, which are on file in the Community Development Department and attached as noted:

- Public Hearing Application
- Proof of Ownership
- Letter of Authorization from Property Owner of 422 E Irving Park Rd
- Site Improvement Plans (Exhibit A)
  - Existing Conditions
  - Site Grading
  - Aerial Photograph
  - Landscape Plan
  - Plat of Survey
- Auto-turn Diagram
- Petitioner Narrative (Exhibit B)
- Draft of License Agreement (trash enclosure)
- Draft of License Agreement (parking on Edgewood)
- Draft of Parking Lot Maintenance Agreement
- Draft of Reciprocal Parking Lot Easement Agreement

### Project Description

The subject property consist of two lots located on the southeast corner of Irving Park Road and Edgewood Ave, commonly known as 414-420 and 422 E Irving Park Rd (see map below). The 414-420 E Irving Park Rd property, owned by Itasca Bank & Trust #12225, is approximately 0.29 acres in size and is improved with a one-story brick commercial building with four (approx.. 1000sf each) tenant units and surface parking. The 422 E Irving Park Rd property, owned by Paul Losecco, is approximately 0.15 acres in size and is improved with two-story brick & cinder block commercial building and surface parking. This building is occupied by Losecco Tile and Stone Design providing ceramic tile and granite countertop services. Refer to Exhibit A for the site plan drawing of the site.





The applicant, who is the owner of 414-420 E Irving Park Road, intends to provide improvements to the subject site and the existing building including elevation updates. His intent is to apply for the Façade Improvement Grant in the next few months. He has also been working with the Community Development Department on building permits to update the interiors of the commercial units.



*View of subject property looking south-east from Edgewood Ave*

The scope of the site improvements includes elimination of one curb-cut on Irving Park Road, reconfiguration of the existing parking lot, proposed re-alignment of the sidewalk along Irving Park Road (pending IDOT permit approval), addition of landscaping, signage and site lighting. The intent is to provide shared access from Irving Park Road via the adjacent 422 E Irving Park Road property (Losecco Tile). The applicant has submitted draft parking lot easement and maintenance agreements which will be executed between the subject site and adjacent property. Mr. Losecco has submitted a written statement confirming that he is aware of this project and is in support.

In addition, the project includes modifications to the existing parking spaces along Edgewood Avenue. Currently, there are 10 parking spaces which encroach from the private property onto Edgewood right-of-way. The applicant is proposing reduction to 8 parking spaces to accommodate a new driveway for the subject site. The applicant also submitted a draft license agreement, since the parking spaces are partially on public property. This document is currently under review by City Attorneys.

Lastly, the applicant is proposing to construct a large trash enclosure behind the Asti Deli property in Bensenville (also owned by the applicant). This trash enclosure would serve the 4 commercial tenants of the subject site, Losecco Tile & Stone Design, as well as Asti Deli. Due to limited availability of open space behind the existing buildings, the proposed location provides an ideal solution to keep the trash receptacles screened from the public view.

Due to the small size of the parcels and limited available space, the petitioner has submitted an application for multiple Zoning Variations related to parking lot improvements including relief from the required parking lot setback, landscaping, driveway setback and transition space (see Exhibit B).

### **Compliance with the Comprehensive Plan**

The subject property is designated as Retail/Commercial in the Future Land Use Plan of the Comprehensive Plan. This Land Use Category intends to maintain a wide range of retail, restaurant and personal/business service uses. This use category includes small office uses and hotels. Most of the retail/commercial land uses along Irving Park Road are in the form of various smaller shopping centers and stand-alone businesses. While reuse or redevelopment of existing properties/buildings is anticipated, the commercial use is expected to remain.

The proposed business use of the existing commercial building would be similar to what is described in the Comprehensive Plan and fits the general description of the Retail/Commercial category, therefore the request is consistent with the Comprehensive Plan.

The proposed development will help the City in achieving Goal 1: Connect Wood Dale to Citizens - Objective 6: Facilitate redevelopment of obsolete commercial uses along Irving Park Road by improving parking and simplifying access to businesses. It will also help with Goal 3: Embrace Small-town Charm - Objective 2: Enhance the appearance of “curb appeal” of commercial corridors by strengthening Irving Park Road’s appeal and Objective 3: by supporting businesses to renovate and modernize buildings and signage. This project will also support Goal 4 - Objective 2: Keep Wood Dale diverse by managing development to create a balanced mix of land uses, promoting economic vitality and sustainable quality of life. The proposed use intends to fill a vacant spaces at an existing commercial building, adding to the diversity of services offered to the community.

### **Compliance with the Unified Development Ordinance**

#### *Allowable Uses*

The subject site is located within the C-3, Automotive Services zoning district established to provide a variety of auto oriented and service businesses. However, commercial uses generally including a wide range of retail, food service, service, office and repair businesses are also permitted in the C-3 district. The applicant is not seeking to change the current use of the property.

#### *Lot Development Standards*

The applicable building type for this property is a Type 9 Building, Large Commercial Shop. An analysis of the lot development standards as compared to the existing property is summarized below with regulations in bold not meeting the current regulation:

<b>Development Standard</b>	<b>Type 9 Building Standards</b>	<b>Existing Property: 414-420 E Irving Park Rd</b>	<b>Existing Property: 422 E Irving Park Rd</b>
Lot Width (min.)	40-feet	n/a	50-feet
Lot Width, corner lot (min.)	60-feet	100-feet	n/a
Lot Depth (min.)	140-feet	<b>125-feet</b>	<b>125-feet</b>
Lot Coverage (max.)	n/a	n/a	n/a
Front Setback (build-to)	20-feet	<b>66.6-feet</b>	<b>Approx. 62-feet</b>
Corner side setback	20-feet	<b>14.50-feet</b>	n/a
Side Setback (min.)	0-feet	0-feet	0-feet
Adjacent residential property	15-feet	n/a	n/a
Rear Setback (min.)	35-feet	<b>2.73-feet</b>	<b>0-feet</b>
Building Coverage (max.)	n/a	n/a	n/a
Maximum Height	40-feet	Approx. 13.5-feet	Approx. 25-feet
Maximum stories	3	1	2
Building Use Standards – Ground Floor	Retail/office/food service	Office	Retail
Building Use Standards – Upper Floor	Office /residential	n/a	Retail

*Parking*

Currently, the 414-420 E Irving Park Road property is served by 26 parking spaces, while the 422 E Irving Park Rd parking lot accommodates approx. 4 vehicles (the spaces are not striped). The minimum Code required parking spaces for both properties combined is 23 (per table below).

<b>Building/Unit</b>	<b>Size (sf)</b>	<b>Use</b>	<b>Required Parking</b>
414 E Irving Park Rd	1000	Retail/office	3
416 E Irving Park Rd	1000	Retail/office	3
418 E Irving Park Rd	1000	Retail/office	3
420 E Irving Park Rd	1000	Retail/office	3
422 E Irving Park Rd	3500	Retail/services	11
Total:			<b>23</b>

The proposed reconfiguration will be able to accommodate a total of 28 parking spaces for the 414-420 E Irving Park and 2 parallel spaces at 422 E Irving Park, for a total of 30 parking spaces, exceeding the minimum code requirement. The petitioner is seeking approval of off-site off-street parking facilities per Sec. 17.607.D.1 for the 422 E Irving Park Road property, which will be provided at the adjacent 414-420 E Irving Park parcel. Due to the limited space available at 422 E Irving Park Rd, the property owners have agreed to enter into a cross license and maintenance agreement for the parking lot.

Currently, the site does not have any accessible parking. The proposal adds 2 accessible parking spaces, bringing the development into compliance with the minimum number of accessible spaces, as required by the 2018 Illinois Accessibility Code.

Since the project calls for redevelopment of an existing site where the existing buildings will remain in place, there is limited open space available and certain limitations due to existing layout of the site. As such, the petitioner is requesting relief from the following parking lot regulations:

1. The Municipal Code requires the parking spaces to be located at least 10-ft away from the front or corner lot line (Sec. 17.607.C.5). The existing parking lot does not meet this requirement, as currently it is located approximately 9-ft from the Irving Park Rd and is encroaching onto right-of-way on Edgewood Ave. In order to accommodate code required parking spaces and drive aisle, the petitioner is proposing to reduce the parking lot setback to 1-ft away from the Irving Park Road. The petitioners are proposing to realign the sidewalk along Irving Park Road to provide greater separation between the parking and pedestrians in the sidewalk.
2. Driveways located along local street shall not be located less than 30-ft from an intersecting right of way (Sec. 17.607.D.3.c.(3)(A)(iii)). The proposed driveway entrance along Edgewood is approximately 19-ft away from the intersecting right-of-way and does not meet this requirement. However, its placement is necessary to provide circulation for the subject site and alignment with the parking lot drive aisle.
3. Driveways which lead to or from public right-of-way shall provide a transition space of not less than 30-ft in length to ensure traffic safety and circulation efficiency (Sec. 17.607.D.3.c.(3)(B)). The transition space along Edgewood Ave is approximately 5-ft from the property line and is approx. 22-ft from the concrete curb on Edgewood.

#### *Landscaping, Signage and Lighting*

The petitioner is proposing to add new landscaping, a monument sign, and lighting to the existing site. The proposed monument sign will be located within the north-west corner of the site and will meet the required Sign Code requirements in terms of its placement and size. A separate building permit will be required for signage. Additional lighting will also be added to the site and will be reviewed for compliance with the exterior lighting regulations upon submittal of the permit.

While the intent of the petitioner is to add landscaping whenever possible, due to limited space on site, the petitioner is seeking approval of a variation to provide relief from the required landscape requirements per Sec. 17.606. Proposed landscape plan is included in Exhibit A.

#### *Engineering*

The proposed site improvements will not add a significant amount of new impervious area, hence will not be required to apply for DuPage County Stormwater Management Permit. The stormwater management is expected to be handled by the current site, but final engineering review and approval will be provided during the permit review process.

### Neighborhood Comment

Notice was provided to adjacent property owners and published in Daily Herald in accordance with Section 17.401.D of the UDO. Staff did not receive any inquiries regarding the petition as of February 21, 2020.

### Findings of Fact

The Community Development Commission may recommend approval of Variations if evidence is presented to establish that the application meets the standards. The applicant has provided responses to the standards in Exhibit B. The standards are as follows (*staff comments italicized*):

1. The property in question cannot yield a reasonable return if permitted to be used only under the conditions allowed by the regulations of the district in which it is located.

*The existing conditions include a deteriorated parking lot, multiple curb-cuts and poor site circulation. The intent of the project is to provide site improvements that will improve curb-appeal and provide efficient parking making the site attractive to businesses and patrons, and assisting in filling the currently vacant commercial spaces. This standard is met.*

2. The proposed variation will not merely serve as a convenience to the applicant, but will alleviate some demonstrable and unusual hardship which will result if the strict letter of the regulations were carried out and which is not generally applicable to property within the same district.

*The proposed variations will allow for redevelopment of the commercial site to make it more attractive and safe for the commercial tenants and patrons. The redevelopment strives to eliminate redundant curb-cuts, provide better site circulation and sufficient parking. This standard is met.*

3. The alleged hardship has not been directly created by any person presently having a proprietary interest in the premises.

*The hardships result from the existing site conditions including the size and layout of the parcels. The subject properties have been developed by different parties and over time with lack of joined re-development efforts resulted in fragmented sites. The petitioner is proposing the redevelop the subject site taking all parcels into consideration and providing more cohesive site circulation. This standard is met.*

4. The proposed variation will not be materially detrimental to the public welfare or injurious to other property or improvements in the neighborhood.

*The proposed variations will not be materially detrimental to the public welfare or injurious to other property owners as the proposal calls for modernization of existing commercial parcel to provide a more attractive site. In fact, the redevelopment will be*

*beneficial to the public and it will improve curb appeal and create a safer site. This standard is met.*

5. The proposed variation will not impair an adequate supply of light and air to adjacent property, substantially increase congestion in the public streets, increase the danger of fire, or endanger the public safety.

*The proposed variations are related to the parking lot redevelopment and will not affect the supply of light and air to adjacent properties. Since the use of the parcel will not be changed it is not anticipated that there will be significant impact on the congestion in the public streets or any increase in the danger of fire or public safety concerns. This standard is met.*

6. The proposed variation will not alter the essential character of the neighborhood.

*The subject site is located within a commercial corridor along Irving Park Road and is surrounded by similar developments. The proposed redevelopment of the parking lot will not alter the essential character of the neighborhood, but will provide a more attractive site. This redevelopment may inspire other businesses to also redevelop and invest in their properties as a result. This standard is met.*

7. The proposed variation is in harmony with the spirit and intent of this chapter.

*The proposed variations are in harmony with the spirit and intent of the Unified Development Ordinance. While the proposal is not able to meet all of the Code requirements, the end result will be a redeveloped site that will be more attractive and safer. This standard is met.*

8. The existence of any nonconformity anywhere in the city shall not itself be considered grounds for granting a variation for other property.

*The petitioner is not citing nonconforming anywhere else in the city as grounds for variations. The petitioners request is necessitated by the need to provide improvements to upgrade the site. This standard is met.*

## **RECOMMENDATION**

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The Community Development Department finds that the request for the zoning variations related to parking lot improvements including relief from the required parking lot setback, landscaping, driveway setback and transition space and the request for off-site parking facilities at 414-420 & 422 E Irving Park Road, is compatible with surrounding zoning and land use classifications, meets the requirements in the Unified Development Ordinance and is consistent with the City's Comprehensive Plan. Based on the above considerations, staff recommends that the Community Development Commission make the following motions recommending approval of this petition:

### Zoning Variations

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Based on the submitted petition and the testimony presented, the proposed Zoning Variations meet the standards for approval and are consistent with the Unified Development Ordinance and Comprehensive Plan; and, therefore, I move that the Community Development Commission adopt the findings of fact included within the staff memo dated February 24, 2020 as the findings of the Community Development Commission, and recommend to the City Council approval of the Zoning Variation requests related to parking lot improvements at 414-420 & 422 E Irving Park Road in Case No. CDC-2020-03.

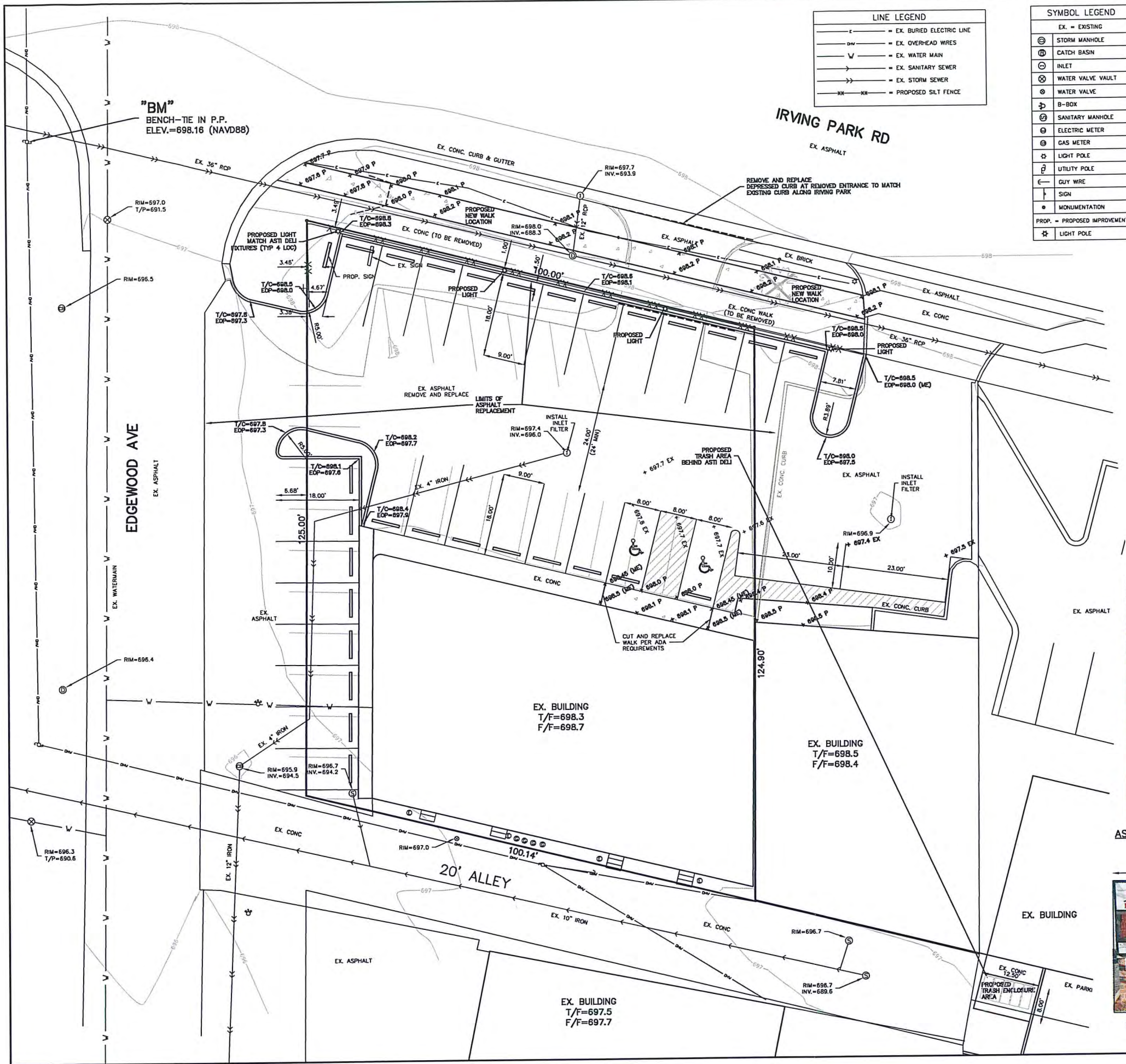
***(Yes vote would be to approve; No vote would be to deny.)***

### Off-site Off-street Parking

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Based on the submitted petition and the testimony presented for the request for Off-site Off-street Parking for 422 E Irving Park Rd, I move that the Community Development Commission adopt the findings that the common ownership or possession of the zoning lot and the site of the parking facilities are reasonably certain to continue and that the off-site parking facilities will be maintained at all times during the life of the proposed use of building, and approve the Off-site Off-street Parking request related to parking lot improvements at 414-420 & 422 E Irving Park Road in Case No. CDC-2020-03.

***(Yes vote would be to approve; No vote would be to deny.)***

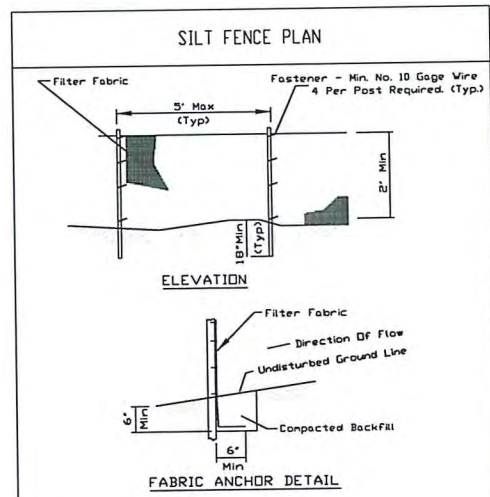


**LINE LEGEND**

---	EX. BURIED ELECTRIC LINE
---	EX. OVERHEAD WIRES
---	EX. WATER MAIN
---	EX. SANITARY SEWER
---	EX. STORM SEWER
---	PROPOSED SILT FENCE

**SYMBOL LEGEND**

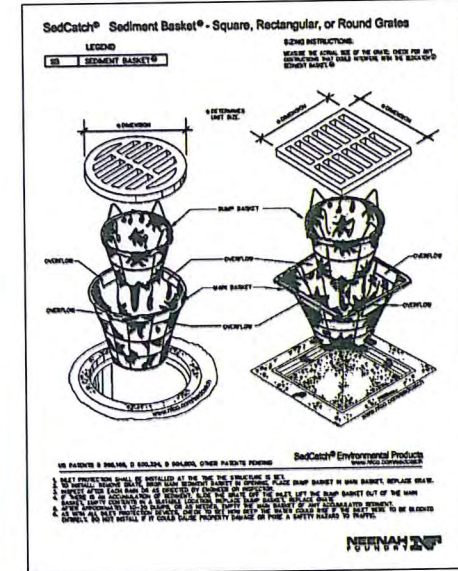
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⊕	STORM MANHOLE
⊕	CATCH BASIN
⊕	INLET
⊕	WATER VALVE VAULT
⊕	WATER VALVE
⊕	B-BOX
⊕	SANITARY MANHOLE
⊕	ELECTRIC METER
⊕	GAS METER
⊕	LIGHT POLE
⊕	UTILITY POLE
⊕	GUY WIRE
⊕	SIGN
⊕	MONUMENTATION
⊕	PROP. = PROPOSED IMPROVEMENTS
⊕	LIGHT POLE



**NOTES:**

1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 552 Geotextile Table 1 or 2, Class 1 with equivalent opening size of at least 30 for nonwoven and 40 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE	Project	Date	STANDARD DWG. NO.
Designed	Checked	Date	11M-620A
Approved		Date	SHEET 1 OF 2
			DATE 3-16-12



ASTI LIGHT POLE DETAIL (NTS)



LED SIGN DETAIL (NTS)

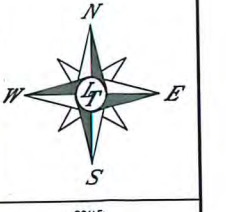
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 EXISTING IMPERVIOUS = 11043 SQFT  
 PROPOSED IMPERVIOUS = 11887 SQFT  
 NET ADDED IMPERVIOUS = 844 SQFT

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 F: (815)363-9223  
 E: LANDTECH@LT-PE.COM

ILLINOIS PROFESSIONAL DESIGN FIRM No. 184-007260

**SITE GRADING:**

414-420 IRVING PARK RD, WOOD DALE  
 LOT 1 ZACCHINI-BRUZZESE SUBDIVISION  
 PIN: 03-16-234-001, (-002), (-003), (-004)  
 CLIENT: M.J. & B. CONTRACTORS



DRAWN BY: SSP

CHECKED BY: SSP

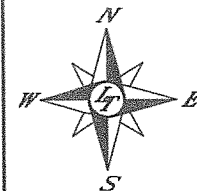
DATE: 1/14/20

EXPIRES 11/30/21

**PAGE 1 OF 1**

DRAWING NUMBER:  
**19-255L**





SCALE:  
1" = 10'



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WHEATON, IL 60187  
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E: INFO@LAMBERTSURVEY.COM

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F: (815)363-9223  
E: LANDTECH@LT-PE.COM

ILLINOIS PROFESSIONAL DESIGN FIRM  
No. 184-007260

**EXISTING CONDITIONS:**

414-420 IRVING PARK RD, WOOD DALE  
LOT 1 ZECCHIN-BAJZEK SUBDIVISION  
PIN: 03-15-234-001, (-002), (-003), (-004)  
CLIENT: M.J. & B. CONTRACTORS

REVISIONS:

DRAWN BY: AS

CHECK'D BY: SSP

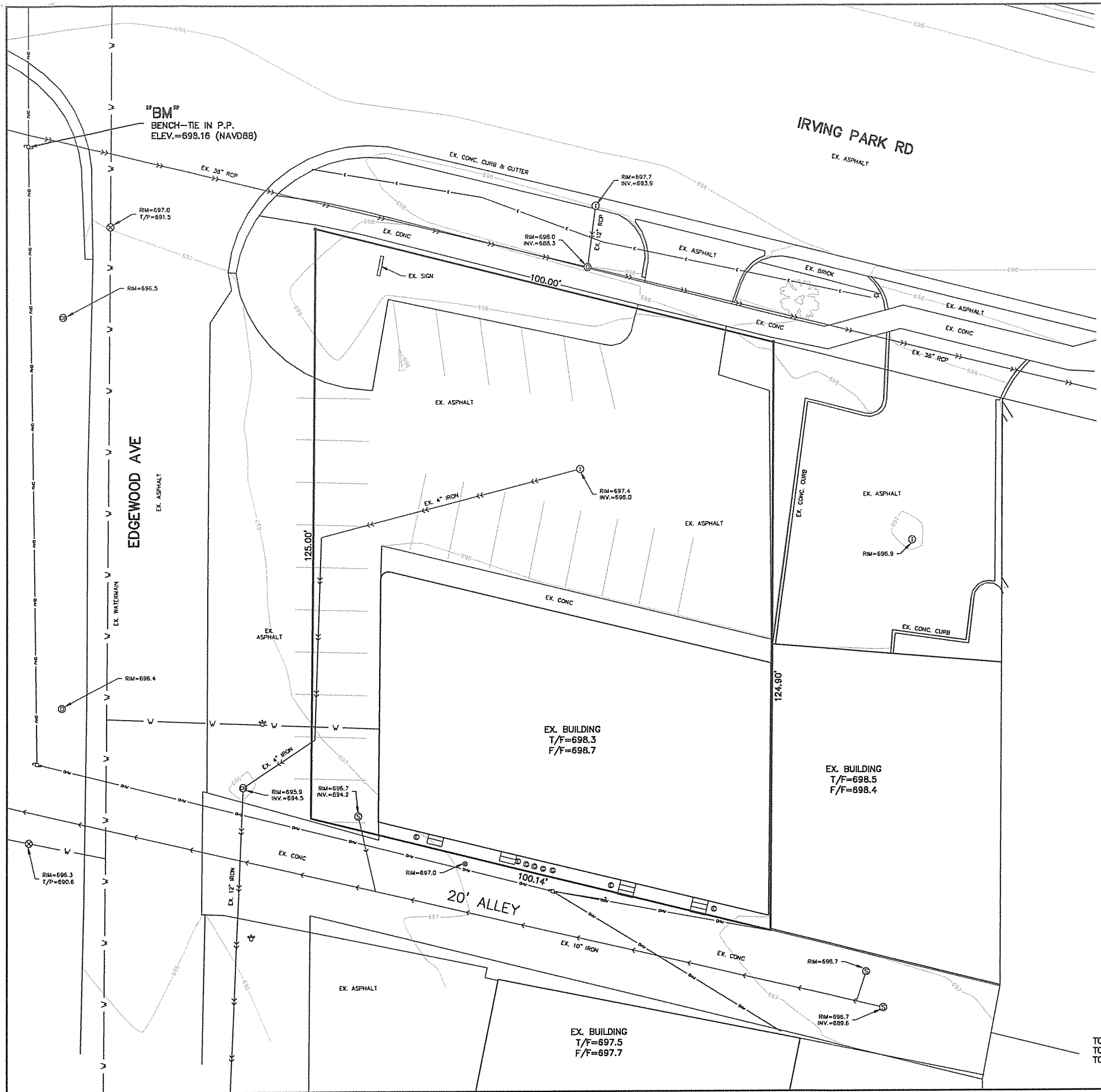
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DATE: 11/27/19

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Packet Page #49



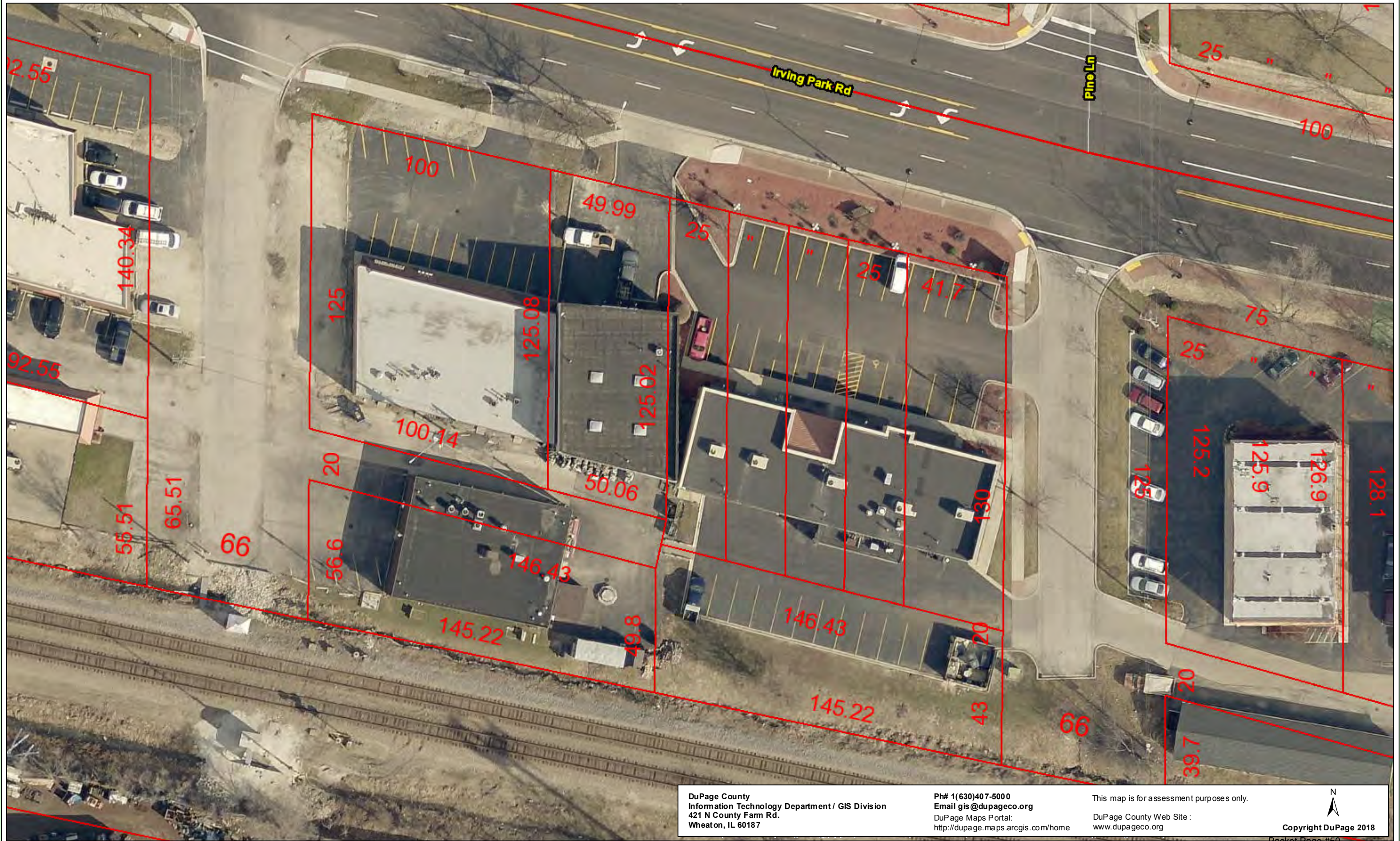
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PROP. = PROPOSED IMPROVEMENTS	EX. = EXISTING
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⊕	⊕ CATCH BASIN
⊕	⊕ INLET
⊕	⊕ CURB STORM MANHOLE
⊕	⊕ CURB CATCH BASIN
⊕	⊕ CURB INLET
⊕	⊕ WATER VALVE VAULT
⊕	⊕ WATER VALVE
⊕	⊕ HYDRANT
⊕	⊕ B-BOX
⊕	⊕ SANITARY MANHOLE
⊕	⊕ SANITARY CLEAN-OUT
⊕	⊕ AERATOR TANK LID
⊕	⊕ LIFT STATION LID
⊕	⊕ SEPTIC TANK LID
⊕	⊕ WELL
⊕	⊕ FOUNDATION SOIL BORING
⊕	⊕ AIR CONDITIONER
⊕	⊕ ELECTRIC METER
⊕	⊕ GAS METER
⊕	⊕ UTILITY BOX
⊕	⊕ TRANSFORMER
⊕	⊕ LIGHT POLE
⊕	⊕ UTILITY POLE
⊕	⊕ GUY WIRE
⊕	⊕ SIGN
⊕	⊕ MAILBOX
⊕	⊕ STEEL POST

LINE LEGEND	
—	EX. BURIED ELECTRIC LINE
—	EX. OVERHEAD WIRES
—	EX. WATER MAIN
—	EX. SANITARY SEWER
—	EX. STORM SEWER
—	PROPOSED SANITARY SEWER
—	PROPOSED STORM SEWER
—	PROPOSED WATER MAIN
—	PROPOSED SILT FENCE
—	PROPOSED BURIED UTILITIES

**SITE DATA**  
TOTAL SITE AREA = 0.28 ACRES  
TOTAL PROPOSED IMPERVIOUS = X.XX ACRES  
TOTAL DISTURBED AREA = X.XX ACRES

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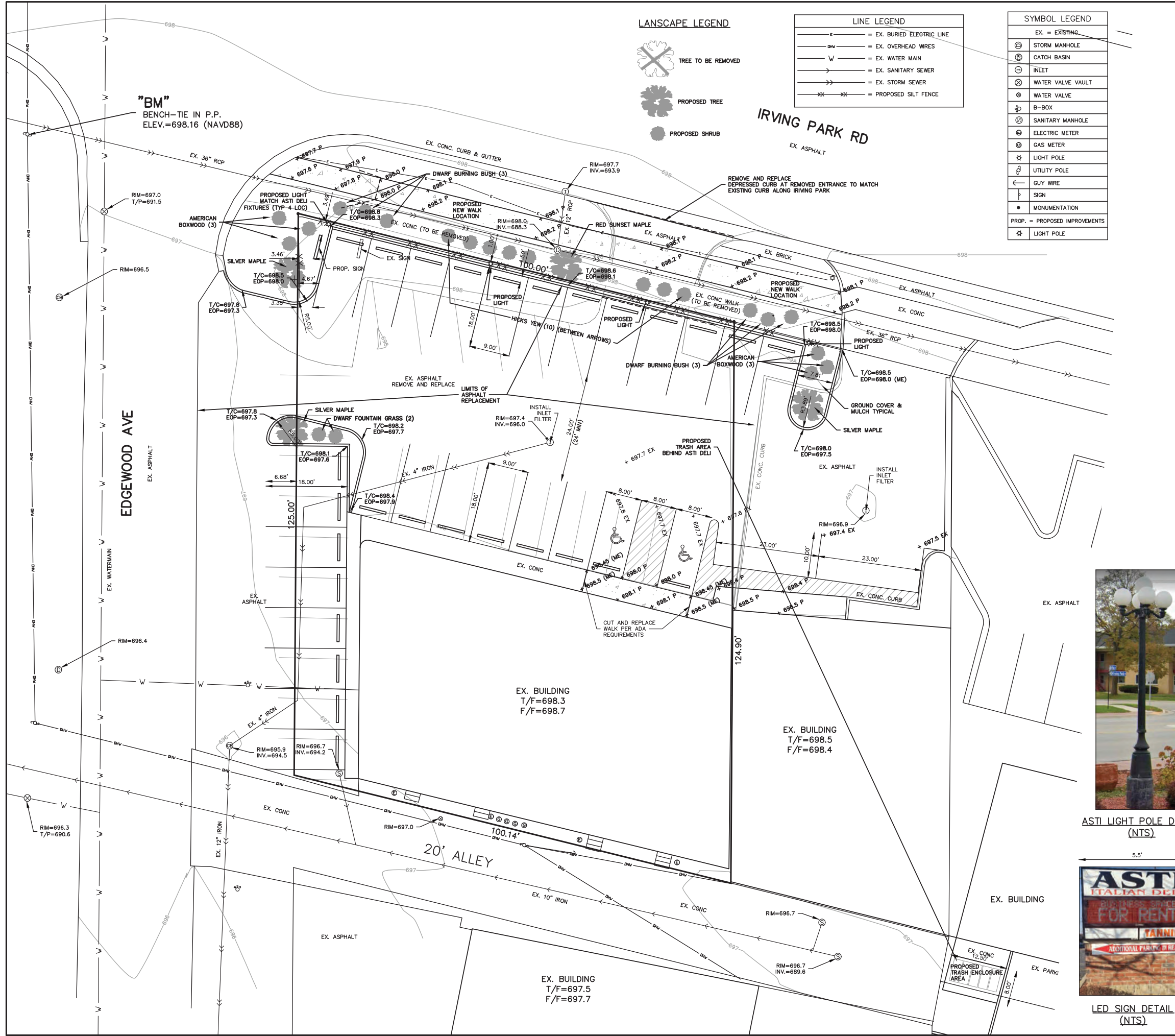


DuPage County  
Information Technology Department / GIS Division  
421 N County Farm Rd.  
Wheaton, IL 60187

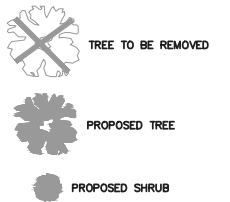
Ph# 1(630)407-5000  
Email [gis@dupageco.org](mailto:gis@dupageco.org)  
DuPage Maps Portal:  
<http://dupage.maps.arcgis.com/home>

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DuPage County Web Site:  
[www.dupageco.org](http://www.dupageco.org)

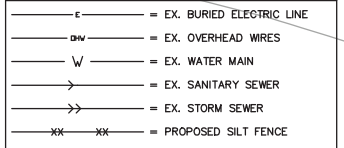




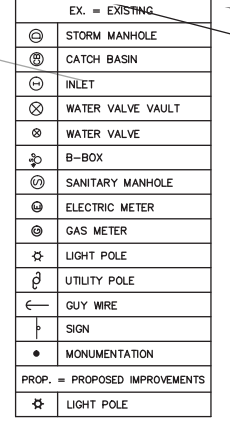
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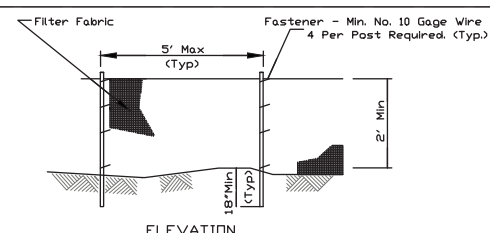
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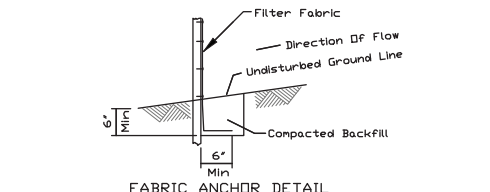
**SYMBOL LEGEND**



**SILT FENCE PLAN**

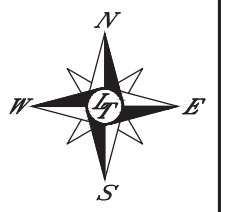


**ELEVATION**

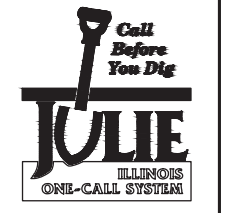


**NOTES:**  
 1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.  
 2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 40 for woven.  
 3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE	Project	Date	STANDARD DIV. NO.
Designed	Checked	Approved	IUM-620A
			SHEET 1 OF 2
			DATE: 2-14-12



SCALE:  
1"=10'



**LAMBERT & ASSOCIATES**  
 933 W. LIBERTY DR  
 WHEATON, IL 60187  
 P: (630)653-6331  
 F: (630)653-6396  
 E: INFO@LAMBERTSURVEY.COM

CIVIL ENGINEERING AND LAND SURVEYING SERVICES

**LAND TECHNOLOGY**  
 3922 W. MAIN STREET  
 McHENRY, IL. 60050  
 P: (815)363-9200  
 F: (815)363-9223  
 E: LANDTECH@LT-PE.COM

ILLINOIS PROFESSIONAL DESIGN FIRM  
 No. 184-007260

**SITE GRADING:**

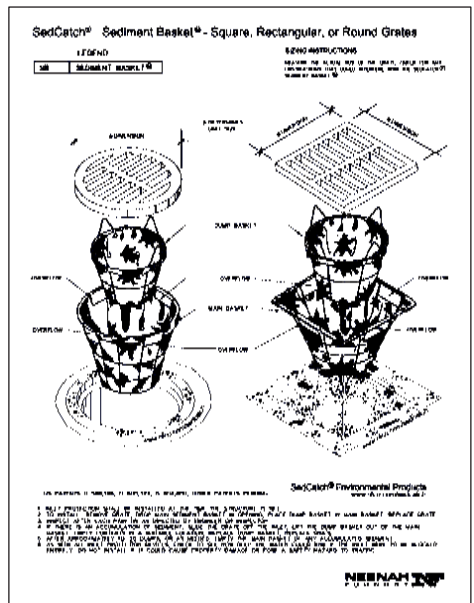
414-420 IRVING PARK RD, WOOD DALE  
 LOT 1 ZECCHIN-BAJZEK SUBDIVISION  
 PIN: 03-15-294-001, (-002), (-003), (-004)  
 CLIENT: M.J. & B. CONTRACTORS



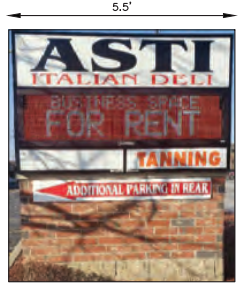
DRAWN BY: SSP  
 CHECK'D BY: SSP  
 DATE: 2/19/20

**PAGE 1 OF 1**

DRAWING NUMBER: 19-055L  
 Packet Page #51



ASTI LIGHT POLE DETAIL (NTS)



LED SIGN DETAIL (NTS)

**SITE DATA**

TOTAL SITE AREA = 12156 SQFT = 0.28 ACRES  
 EXISTING IMPERVIOUS = 11043 SQFT  
 PROPOSED IMPERVIOUS = 11887 SQFT  
 NET ADDED IMPERVIOUS = 844 SQFT

**SPECIAL NOTE:**

"THIS DESIGN IS NOT FOR CONSTRUCTION UNLESS APPROVAL STAMP FROM COUNTY, VILLAGE, OR CITY REGULATORY DEPARTMENT IS AFFIXED HERETO"

THIS DRAWING IS PROTECTED BY COPYRIGHT REGULATIONS. THE INFORMATION SHOWN MAY NOT, IN WHOLE OR PART, BE REPRODUCED WITHOUT THE WRITTEN CONSENT OF: LAND TECHNOLOGY AND/ LAMBERT & ASSOCIATES 3922 W. MAIN STREET OR 933 W. LIBERTY DRIVE McHENRY, ILLINOIS, 60050 WHEATON, ILLINOIS, 60187 ALL LEGAL RIGHTS RESERVED.

# PLAT OF SURVEY

## MARCHESE SURVEYING, INC.

### RESIDENTIAL - COMMERCIAL SURVEYS

714 Fairview Lane  
Bartlett, Illinois 60103

Phone: (630) 830-1570  
Fax: (630) 830-1844  
E-Mail: marcheseurveying@gmail.com

#### PROPERTY DESCRIPTION

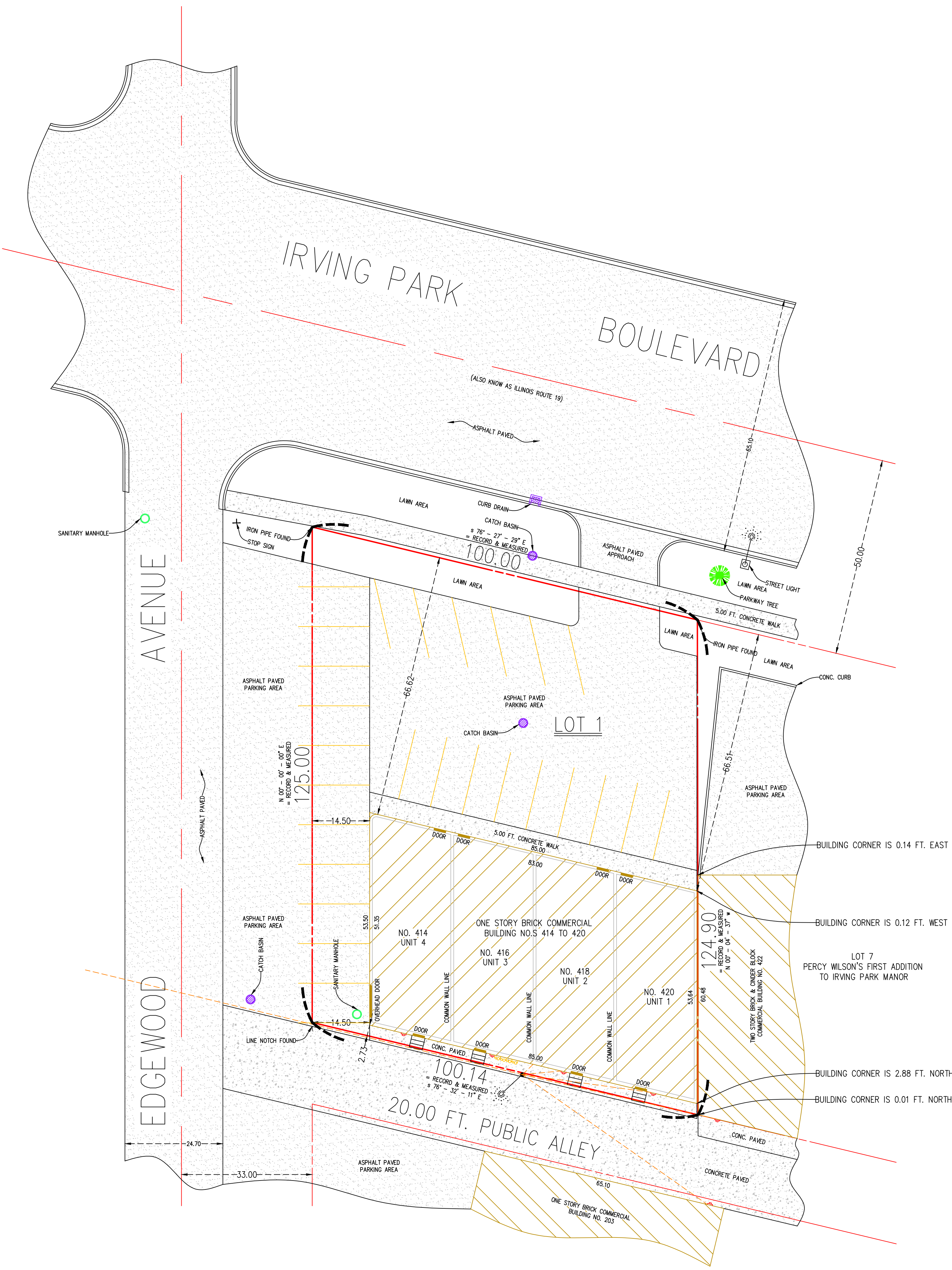
LOT 1 IN ZECCHIN-BAJZEK SUBDIVISION, BEING A RESUBDIVISION IN THE NORTHEAST QUARTER OF SECTION 15, TOWNSHIP 40 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT OF SAID ZECCHIN-BAJZEK SUBDIVISION RECORDED DECEMBER 30, 1981 AS DOCUMENT NUMBER R81-68808, IN DUPAGE COUNTY, ILLINOIS.

ALSO KNOWN AS: 414 TO 420 IRVING PARK ROAD IN WOOD DALE, ILLINOIS.  
CONTAINING 12,156.16 SQUARE FEET OR 0.28 ACRES, MORE OR LESS.

INDIVIDUAL UNITS ARE REFERRED TO AS:

UNITS 1 TO 4 IN IRVING PLAZA CONDOMINIUM, AS DELINEATED ON A SURVEY OF THE FOLLOWING DESCRIBED REAL ESTATE: LOT 1 IN ZECCHIN-BAJZEK SUBDIVISION, BEING A RESUBDIVISION IN THE NORTHEAST QUARTER OF SECTION 15, TOWNSHIP 40 NORTH, RANGE 11, EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT OF SAID ZECCHIN-BAJZEK SUBDIVISION RECORDED DECEMBER 30, 1981 AS DOCUMENT NUMBER R81-68808, WHICH SURVEY IS ATTACHED AS EXHIBIT "A" TO THE DECLARATION OF CONDOMINIUM RECORDED AS DOCUMENT NUMBER R82-03752, TOGETHER WITH ITS UNDIVIDED PERCENTAGE INTEREST IN THE COMMON ELEMENTS.

NORTH



**SNOW NOTE:**  
DUE TO HEAVY SNOW AND ICE CONDITIONS SOME FEATURES MAY BE DISTORTED OR NOT SHOWN HEREON.  
THIS PROPERTY SITE SHOWN HEREON IS EITHER UNOCCUPIED AND/OR HAS LITTLE TO NO MAINTENANCE FOR SNOW REMOVAL. IT HAS BEEN NOT BEEN SHOVELED OR WORKED ON.

A PRELIMINARY TITLE POLICY REPORT WAS NOT FURNISHED TO MARCHESE SURVEYING, INC. FOR OUR USE IN PREPARING THE SURVEY, THEREFORE THERE MAY BE ADDITIONAL EASEMENTS, AND OR SERVITUDE'S EFFECTING THIS PROPERTY WHICH ARE NOT SHOWN ON THIS PLAT OF SURVEY.

SCALE: ONE INCH = FIFTEEN FEET  
ORDER NO.: 19-19200  
ORDERED BY: MR. DIEGO DeASTIS  
DIRECT FOOD SERVICE

COMPARE ALL POINTS BEFORE BUILDING BY SAME AND AT ONCE REPORT ANY DIFFERENCE FOR BUILDING LINE AND OTHER RESTRICTIONS NOT SHOWN HEREON. REFER TO YOUR CONTRACT, DEED, TITLE INSURANCE POLICY AND ZONING ORDINANCE.

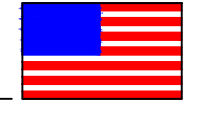
STATE OF ILLINOIS  
COUNTY OF DUPAGE

I, ROCCO J. MARCHESE, HEREBY CERTIFY THAT I HAVE SURVEYED THE ABOVE DESCRIBED PROPERTY AND THAT THE PLAT DRAWN HEREON IS A CORRECT REPRESENTATION OF SAID SURVEY.  
THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY LINE SURVEY.

DATED AT BARTLETT, ILLINOIS, FEBRUARY 22, 2019

~~X-X-X~~

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 3039  
MY LICENSE EXPIRES ON NOVEMBER 30, 2020



ANY REPRODUCTION OF THIS PLAT IS STRICTLY PROHIBITED WITHOUT WRITTEN CONSENT FROM MARCHESE SURVEYING, INC.

**UNOFFICIAL**  
ELECTRONIC COPY  
FOR OFFICE USE ONLY



NOT VALID UNLESS SEAL IS IN RED INK.

DRAWN BY: R.J.M.  
CHECK BY: R.J.M.



LAW OFFICES OF DAVID R. SCHLUETER, LTD.

EXHIBIT B

PH: 630.285.5300  
FX: 630.285.5304  
DAVID R. SCHLUETER  
TERRENCE D. KANE OF COUNSEL

E-MAIL: DAVE@SCHLUETERLAWOFFICE.COM

February 7, 2020

City of Wood Dale  
404 N. Wood Dale Road  
Wood Dale, IL 60191

**Re: Parking Lot Variations (CDC-2020-03 VAR)**

**414-420 E Irving Park Rd & 422 E Irving Park Road, Wood Dale IL**

Dear Bensenville Community Development Commission:

As counsel for DeAstis Partners LLC (hereafter "DeAstis") and on behalf of their longtime neighbor to the West Paul Losecco (hereafter "Losecco"), I am convinced that the City of Wood Dale's approval of requested variations related to the necessary redevelopment of the parking lot areas adjacent to 414 thru 422 E Irving Park Road and nearby Edgewood Avenue is in the best interests of the citizens of Wood Dale, the patrons of the businesses operating in the properties in question and the general public.

Substantial and detailed documentation including license agreements, maintenance plans and a landscape plan all have taken into consideration the short term and long term concerns in a way that secure the benefits derived for the above parties.

~ 401 WEST IRVING PARK ROAD, ITASCA, IL 60143 ~

The specific variations for which approval is sought are:

1. A variation from the current requirement for off street parking in non-residential districts stated in Section 17.607.C.5 to not be located within ten feet (10') of a front or corner or side lot line to allow per the plans submitted to have parking spaces within \_\_\_\_ feet of a front or corner or side lot line. This request pertains to the twelve parking spaces proposed along the north end of the parking lot facing Irving Park Road;
2. A variation from the current requirement for all open loading and all parking areas providing space for five (5) or more vehicles being effectively screened in accordance with the landscape requirements in section 17.606 to allow the approval of our submitted landscape plan on and for which diligent best efforts will be used to comply with the landscape code in every respect possible;
3. That ample opportunity for review of documents drafted be given to meet the requirement that the Community Development Commission to have reviewed plans and made specific findings in all circumstances that the common ownership and possession issues of parking lots and the site of parking facilities of adjoining owners are maintained and that proper documentation is on file with the County and City documenting in conformance with Section 17.607.D.1 and common law principals generally as to shared parking facilities. Shared parking facilities are requested per Cross License Agreement submitted and Maintenance Agreements submitted
4. A variation is requested from the current requirement per Section 17.607.D.3.c(3)(A)(iii) that driveways located along a local street or cul-de-sac right of way shall not be located less than thirty feet (30') from any intersecting right of way to instead provide for a driveway located nineteen (19) feet from the property line and approximately thirty nine (39) feet from the face of the southerly curb of Irving Park Road per the plans submitted. This request pertains to the northerly section of the curb pet required for westerly entrance of the parking lot from Edgewood Avenue;

5. A variation is requested from the current requirement per Section 16.607.D.3.c(3)(B) that all parking facility driveways which lead to or from a public right-of-way provide a transition space of not less than thirty feet (30') in length from the right-of-way fronting a street or not less than ten feet (10') in length from any alley to the nearest parking space, an intersecting driveway or parking aisle along said driveway to ensure traffic safety to instead per the plans submitted to a distance of five (5) feet from the westerly property line and twenty two (22) feet from a concrete curb. This request pertains to the southerly section of the curb cut for the westerly entrance to the parking lot on to Edgewood Avenue.

In further support toward approval by the Commission of the above variations as a supplement to page 6 of the Application submitted to the Commission as counsel for DeAstis as evidence toward your making findings of fact per the requirements of Section 17.404.A.5 Standards of Approval for Variations I state the following

(1) In its present condition as a divided parking lot with deteriorated entrances that both dead end into a perpendicular curb diving the natural flow between three commercial buildings normal commerce cannot continue. Deastis and Losecco have committed invest substantial funds to have a safe and appealing and efficient redeveloped parking area that will service the patrons of all three buildings and the adjacent Bensenville delicatessen property and the general public for decades to come.

(2) Keeping the current properties in the stricter present guidelines results in one half of the parking, three point turns within both lots, difficulty in plowing in the winter, outdated layout and lighting and less entry points and exit points causing distractions for drivers who need to be focused on pedestrians on the nearby streets and those walking in the current lots.

(3) The hardships have developed not by the applicant but by just the natural "lay of the land" as businesses have grown but being owned by different parties and from many decades without a redevelopment taking place the only direction without redevelopment will be loss of business, loss of curb appeal and possible injuries to persons and property.

(4) As to negative impact to the public welfare there is none in fact the opposite is true as the public will benefit greatly from a safer modernized layout that is also more attractive and there is no negative impact on neighboring business or the neighborhood generally.

(5) As the variations relate to only the parking improvements the supply and light and air are not affected and will not increase congestion or be a fire or other public safety danger.

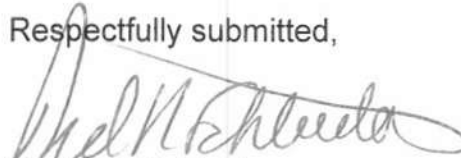
(6) As to a character change in the neighborhood it is only positive as the visual factors will be enhanced and the substantial improvement may inspire other commercial owners to also redevelop and invest in their properties or outsiders may be more interested in investing the Irving Park Corridor as a result.

(7) The spirit of the chapter of the code seeking to have reasonable standards for longterm properly maintained properties for the benefit of the citizens of Wood Dale and the patrons of businesses and public is compatible with all of the plans submitted and the desires that DeAstis has for the property and the investment being made

(8) DeAstis is not citing non-conformity elsewhere of any other parking facilities but only focusing on the necessary improvement and redevelopment of the DeAstis and Losecco properties.

If there is any further information requested DeAstis will gladly provide or our Firm as his counsel and your time and consideration are appreciated in this matter.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "David R. Schlueter", written over a horizontal line.

David R. Schlueter





---

## **REQUEST FOR COUNCIL ACTION**

Referred to Council: November 5, 2020  
Subject: Ordinance for a Variance Allowing a Patio as a Side Yard Obstruction – 417 Woodside Drive  
Staff Contact: Ed Cage, Community Development Director  
Department: Community Development Department

**TITLE:** An Ordinance Granting a Variance to Allow Construction of a Patio as a Side Yard Obstruction at 417 Woodside Drive, Wood Dale

**COMMITTEE VOTE:** Approve 7 - 0

**RECOMMENDATION:**

Staff recommends to approve the requested zoning variation to allow a patio as a permitted side yard obstruction due to the unique nature of the lot.

**ANALYSIS:**

The subject property is located at 417 Woodside Drive, at the intersection of Woodside Drive and Oak Meadows Drive. The homeowner submitted a building permit application to replace the existing deck with concrete patio at the subject property. However, due to the unique configuration of the corner lot, the proposed patio is located within the side yard, which is not a permitted obstruction. The homeowner has petitioned for a zoning variation to allow construction of a patio as a permitted side yard obstruction.

Staff believes that the request is a reasonable request to improve the homeowner's property. The side yard is from a practical standpoint, effectively a rear yard to the homeowner and other neighbors. Therefore, the subject property is unique.

**DOCUMENTS ATTACHED**

- ✓ Ordinance
- ✓ Exhibit A – Memo Case CDC-2020-08

**ORDINANCE NO. O-20-030**

**AN ORDINANCE GRANTING A VARIANCE TO ALLOW  
CONSTRUCTION OF A PATIO AS A SIDE YARD OBSTRUCTION  
AT 417 WOOD SIDE DRIVE, WOOD DALE**

**WHEREAS**, the City of Wood Dale (“City”) is a body politic and corporate, organized and existing pursuant to the Illinois Municipal Code, 65 ILCS 5/1-1-1 *et seq.*; and

**WHEREAS**, the City is authorized and empowered, under the Illinois Municipal Code and the Code of Ordinances of the City of Wood Dale (“City Code”), to regulate properties located within the municipal boundaries of the City; and

**WHEREAS**, in furtherance of this authorization, the City has adopted a Unified Development Ordinance (“UDO”), codified in Chapter 17 of the City Code, which sets forth regulations regarding the use of property within the City; and

**WHEREAS**, section 17.605.C.2 of the UDO prohibits obstructions in a side yard of a single family residence, unless the obstruction is contained with the list of obstructions specifically permitted; and

**WHEREAS**, the Petitioner, Kevin Taylor, owner of the property located at 417 Wood Side Drive (“Property”) filed an application for a variation from strict compliance with the UDO to allow construction of a concrete patio in the side yard of the Property, which application is identified as Case No. CDC-2020-08; and

**WHEREAS**, on October 19, 2020, the Community Development Commission held a public hearing on the proposed variance in Case No. CDC-2020-08, following the necessary publication of a legal notice pursuant thereto, as required by law and the City Code; and

**WHEREAS**, following said hearing, the Community Development Commission voted 5-0, with 2 members absent, to recommend approval of the proposed variance, predicated on testimony presented, and on Findings of Fact set forth in the Staff Report relative to Case No. CDC-2020-08, dated October 19, 2020, attached hereto and incorporated herein by reference as Exhibit A; and

**WHEREAS**, the proposed variance, as recommended for approval by the Community Development Commission, has been considered by the Planning, Zoning and Building Committee of the City Council of the City of Wood Dale, which has also recommended approval of the variance to the UDO relative to side yard obstructions; and

**WHEREAS**, the City Council of the City of Wood Dale has reviewed the matter herein and has determined that the same is in the best interests of the health, safety

and welfare of the citizens of the City of Wood Dale.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF WOOD DALE, DUPAGE COUNTY, ILLINOIS, as follows:**

**SECTION ONE:** The recitals set forth above are incorporated herein and made a part hereof.

**SECTION TWO:** Petitioner in Case No. 2020-CDC-08 is granted a variance from section 17.605.C.2 of the UDO to allow for construction of a concrete patio at 417 Wood Side Drive, in the location set forth in the Staff Report, predicated on the Findings of Fact set forth in the Staff Report, as are adopted herein.

**SECTION THREE:** That all ordinances or parts thereof, in conflict with the provisions of this Ordinance are, to the extent of such conflict, hereby repealed.

**SECTION FOUR:** That the City Clerk of the City of Wood Dale is hereby directed to publish this Ordinance in pamphlet form, pursuant to the statutes of the State of Illinois.

**SECTION FIVE:** That this Ordinance shall be in full force and effect from and after its passage, approval, and publication in the manner provided by law.

PASSED this 5th day of November, 2020

AYES: \_\_\_\_\_

NAYS: \_\_\_\_\_

ABSENT: \_\_\_\_\_

APPROVED this 5th day of November, 2020

SIGNED: \_\_\_\_\_  
Annunziato Pulice, Mayor

ATTEST: \_\_\_\_\_  
Lynn Curiale, City Clerk

Published in pamphlet form \_\_\_\_\_, 2020

# CITY OF WOOD DALE

Community Development



## MEMO

DATE: October 19, 2020  
TO: Community Development Commission  
FROM: Gosia Pociecha, AICP, Planner  
SUBJECT: Case No. CDC-2020-08, Zoning Variation to Allow Patio as Side Yard Obstruction, 417 Wood Side Drive

---

### REQUEST

An application has been filed by Kevin Taylor for a zoning variation request to allow construction of a patio as a permitted side yard obstruction for a single family property located at 417 Wood Side Drive.

### PROPERTY INFORMATION

Site Address: 417 Wood Side Drive  
PIN: 03-22-206-032  
Property Size: 0.32 Acres (approx. 15,790 square feet)  
Existing Land Use: Single Family Residential  
Future Land Use: Single Family Residential  
Existing Zoning: R-2, Large Lot Single Family

#### Surrounding Zoning / Land Use

North: R-2, Large Lot Single Family  
South: Forrest Preserve, Unincorporated  
East: R-2, Large Lot Single Family  
West: R-1, Large Lot Single Family

### ANALYSIS

#### **Submittals**

The analysis and recommendation provided in this memo are based on the following documents, which are on file in the Community Development Dept. and attached as noted:

- Public Hearing Application
- Proof of Ownership
- Plat of Survey (Exhibit A)
- Petitioner Narrative with supporting images (Exhibit B)

- Variation Standards Responses (Exhibit C)
- Proposed Patio Drawings (Exhibit D)

### Project Description

The subject property is located at 417 Woodside Dr, (PIN 03-22-206-032), at the intersection of Wood Side Drive and Oak Meadows Drive (see the location map below) in Wood Dale, Illinois. The property is classified R-2, Large Lot Single Family and is improved with a two-story brick residence (Exhibit A). Kevin Taylor is the owner of the property and the petitioner.



In the early September of 2020, a building permit application was submitted to the City to replace the existing deck with concrete patio at the subject property. However, due to the configuration of the lot, the proposed patio is located within the side yard, which is not a permitted obstruction. The applicant has petitioned for a zoning variation to allow construction of a patio as a permitted side yard obstruction.

### Compliance with the Comprehensive Plan

The property is designated as Single Family Residential in the Future Land Use Map of the Comprehensive Plan. The Single Family Residential land use category for properties located in the southeast area of the City is intended to preserve the primarily single-family neighborhood with less of a grid street network and more parks and green spaces throughout.

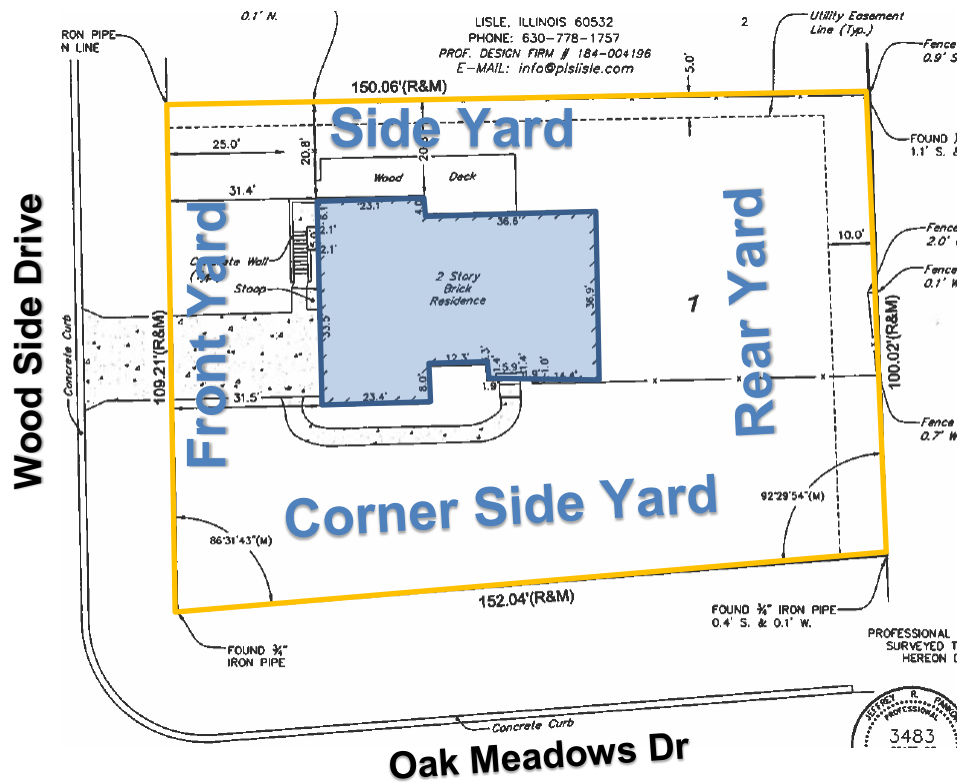
The proposed development will help the City in achieving Goal 2, Objective 4: Support improvements to existing housing stock and investment in residential neighborhoods by supporting improvement to residential property.

The requested zoning variation request will continue the use of the property as a single-family home and is consistent with the Comprehensive Plan.

### Compliance with the Unified Development Ordinance (UDO)

#### Lot Development Standards

The subject property is designated as R-2, Large Lot Single Family. The applicable building type for this property is a Type 2, Large Detached House. The lot development standards reference a table of permitted yard obstructions, in which patios are permitted only in the rear yard. The subject property is a corner lot, and per the Municipal Code, the yard facing Wood Side Drive is considered the front yard, therefore, the yard facing north is defined as side yard (see below).



However, the existing building was constructed with the front elevation facing south, or Oak Meadows Drive. The interior of the residence is designed with sliding glass doors that access an existing deck on the north of the property. While there is an existing open space to the east of the residence, there is no direct access from the interior space, therefore construction of a patio would be less functional for the property owner. The zoning variation request was submitted to allow construction of the patio as a permitted side yard obstruction as depicted on Exhibit D.

### **Neighborhood Comment**

Notice was provided to adjacent property owners in accordance with Section 17.401.D of the UDO. Staff received one phone call from the public asking for clarification of the request, but no objections were submitted. A letter was also submitted by the Forest Preserve, also noting no concerns to the proposed variation request.

### **Findings of Fact**

The Community Development Commission may recommend approval of Variations if evidence is presented to establish that the application meets the standards. The applicant has provided responses to the standards in Exhibit C. The standards are as follows (*staff comments italicized*):

1. The property in question cannot yield a reasonable return if permitted to be used only under the conditions allowed by the regulations of the district in which it is located.

*The existing conditions include a wooden deck that is no longer practical or functional to the property owner. The intent is to replace the existing deck with concrete patio in order to improve the property and provide greater functionality. The residence was designed and constructed with multiple sliding glass doors on the north elevation. Granting of the zoning variation would bring the property into compliance with the Municipal Code. This standard is met.*

2. The proposed variation will not merely serve as a convenience to the applicant, but will alleviate some demonstrable and unusual hardship which will result if the strict letter of the regulations were carried out and which is not generally applicable to property within the same district.

*The current regulations limit the ability of the existing residence to function as it was originally built. The hardship is related to the original design and layout of the residence. There are practical difficulties in locating the patio in the rear, as it would be remote and not directly accessible from the residence. The proposed variation request would generally not be applicable to other properties in the same district, unless they have a similar building orientation on a lot. This standard is met.*

3. The alleged hardship has not been directly created by any person presently having a proprietary interest in the premises.

*The subject property was constructed in 1993. The current property owner and application, purchased the subject property in 2015. The hardship related to the exiting*

*orientation of the residence and existing deck on the north elevation has existed prior to the applicant's purchase. This standard is met.*

4. The proposed variation will not be materially detrimental to the public welfare or injurious to other property or improvements in the neighborhood.

*The proposed variation will not be materially detrimental to the public welfare or injurious to other property owners as the proposal calls for property improvements. The existing deck will be replaced by concrete patio. The shape of the patio will be slightly modified, but a 5' setback will be maintained from the north property line. This standard is met.*

5. The proposed variation will not impair an adequate supply of light and air to adjacent property, substantially increase congestion in the public streets, increase the danger of fire, or endanger the public safety.

*The proposed variation will not impair an adequate supply of light and air to adjacent property, as the proposed improvements involve flatwork only. There will be no increased congestions in the public streets or increased danger to the public safety. This standard is met.*

6. The proposed variation will not alter the essential character of the neighborhood.

*The subject site is located within an established residential community. The proposed improvements will not alter the essential character of the neighborhood as the proposed patio fits within the scope of typical residential improvements. This standard is met.*

7. The proposed variation is in harmony with the spirit and intent of this chapter.

*The proposed variations are in harmony with the spirit and intent of the Unified Development Ordinance. The request is necessitated by the unique orientation of the existing residence on a lot and is driven by the desire of the homeowner to improve their property. This standard is met.*

8. The existence of any nonconformity anywhere in the city shall not itself be considered grounds for granting a variation for other property.

*The petitioner is not citing nonconformity anywhere else in the city as grounds for variations. The petitioner's request is necessitated by the desire to provide improvements to the subject property. This standard is met.*

## **RECOMMENDATION**

---

The Community Development Department finds that the request for a zoning variation is compatible with surrounding zoning and land use classifications, meets the requirements in the Unified Development Ordinance and is consistent with the City's Comprehensive Plan.



Based on the above considerations, staff recommends that the Community Development Commission make the following motion recommending approval of this petition:

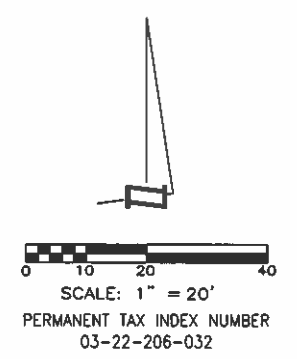
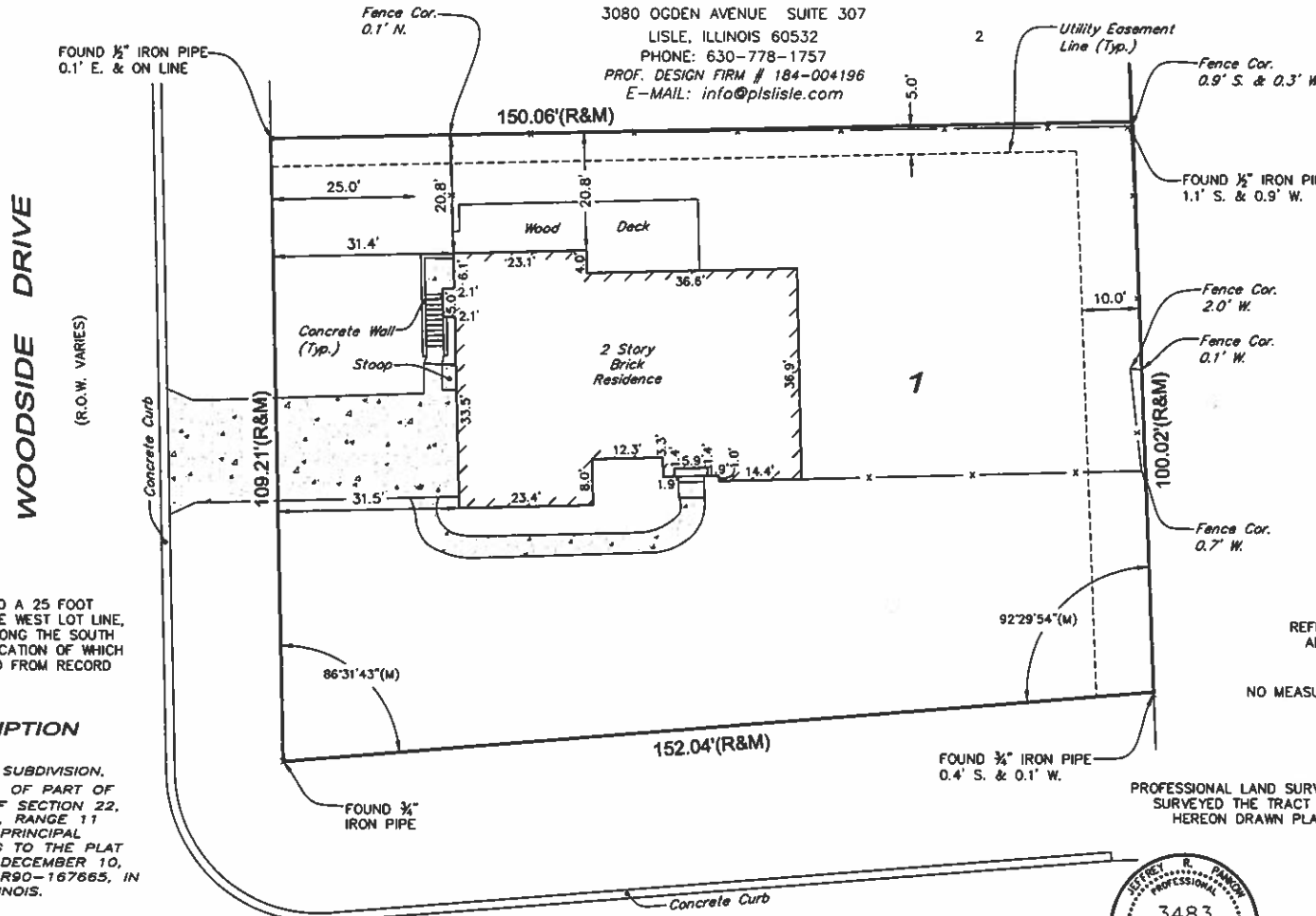
Based on the submitted petition and the testimony presented, the proposed zoning variation is consistent with the Unified Development Ordinance and Comprehensive Plan; and, therefore, I move that the Community Development Commission adopt the findings of fact included within the staff memo dated October 19, 2020 as the findings of the Community Development Commission, and recommend to the City Council approval of the zoning variation to allow a patio as a permitted side yard obstruction in Case No. CDC-2020-08.

***(Yes vote would be to approve; No vote would be to deny)***

# PLAT OF SURVEY

PROFESSIONAL LAND SURVEYING, INC.

3080 OGDEN AVENUE SUITE 307  
 Lisle, ILLINOIS 60532  
 PHONE: 630-778-1757  
 PROF. DESIGN FIRM # 184-004196  
 E-MAIL: info@plslisle.com



NOTE:  
 PROPERTY IS SUBJECT TO A 25 FOOT  
 BUILDING LINE ALONG THE WEST LOT LINE,  
 AND A BUILDING LINE ALONG THE SOUTH  
 LOT LINE, THE EXACT LOCATION OF WHICH  
 CANNOT BE ASCERTAINED FROM RECORD  
 DOCUMENTS.

### LEGAL DESCRIPTION

LOT 1 IN WOODSIDE SUBDIVISION,  
 BEING A SUBDIVISION OF PART OF  
 THE NORTHEAST ¼ OF SECTION 22,  
 TOWNSHIP 40 NORTH, RANGE 11  
 EAST OF THE THIRD PRINCIPAL  
 MERIDIAN, ACCORDING TO THE PLAT  
 THEREOF RECORDED DECEMBER 10,  
 1990 AS DOCUMENT R90-167663, IN  
 DUPAGE COUNTY, ILLINOIS.

SURVEYED AREA: 15,790± SQ. FT.  
 REFER TO YOUR DEED, ABSTRACT, TITLE POLICY  
 AND LOCAL BUILDING AND ZONING ORDINANCE  
 FOR ITEMS OF RECORD NOT SHOWN.  
 NO MEASUREMENTS ARE TO BE ASSUMED BY SCALING

STATE OF ILLINOIS)  
 COUNTY OF DUPAGE)

PROFESSIONAL LAND SURVEYING, INC. HEREBY CERTIFIES THAT IT HAS  
 SURVEYED THE TRACT OF LAND ABOVE DESCRIBED, AND THAT THE  
 HEREON DRAWN PLAT IS A CORRECT REPRESENTATION THEREOF.

FIELD WORK COMPLETED AND DATED  
 THIS 30TH DAY OF OCTOBER, 2015.  
 UPDATED THIS 17TH DAY OF AUGUST, 2020.

PREPARED FOR: TAYLOR  
 ADDRESS: 417 WOODSIDE DRIVE WOOD DALE, ILLINOIS  
 BOOK & PG: 138/48 DATE: 11/02/2015 JOB NO.: 1511631  
 DRAWN BY: AA CHECK BY: JHH  
 REVISED: 08/17/20-UPDATE

(66' R.O.W.)  
**3RD AVENUE**



IPLS No. 3483  
 MY LICENSE EXPIRES 11/30/20  
 THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT  
 ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.

# Variation Application Summary Letter

## 417 Woodside Drive Project: *'The Patio'*

To whom it may concern,

When originally applying for a permit for this project, it was declined being that the location of it is considered to be in my 'side' yard, in which due to certain regulations in the codes, it does not allow for obstructions to be built in 'side' yards. The reason this is considered to be the 'side' yard is due to the fact that the house is located on a corner lot, in which the front of the house faces the busy road of Oak Meadows Drive, and not Woodside Drive in which it is addressed to. As you will see in the following documentation, what is technically considered the 'side' of my house by code, is actually the 'rear' of the house in the way it was built. This is the side of the house that has an existing deck, and is the side of the house in which all the patio doors are located.

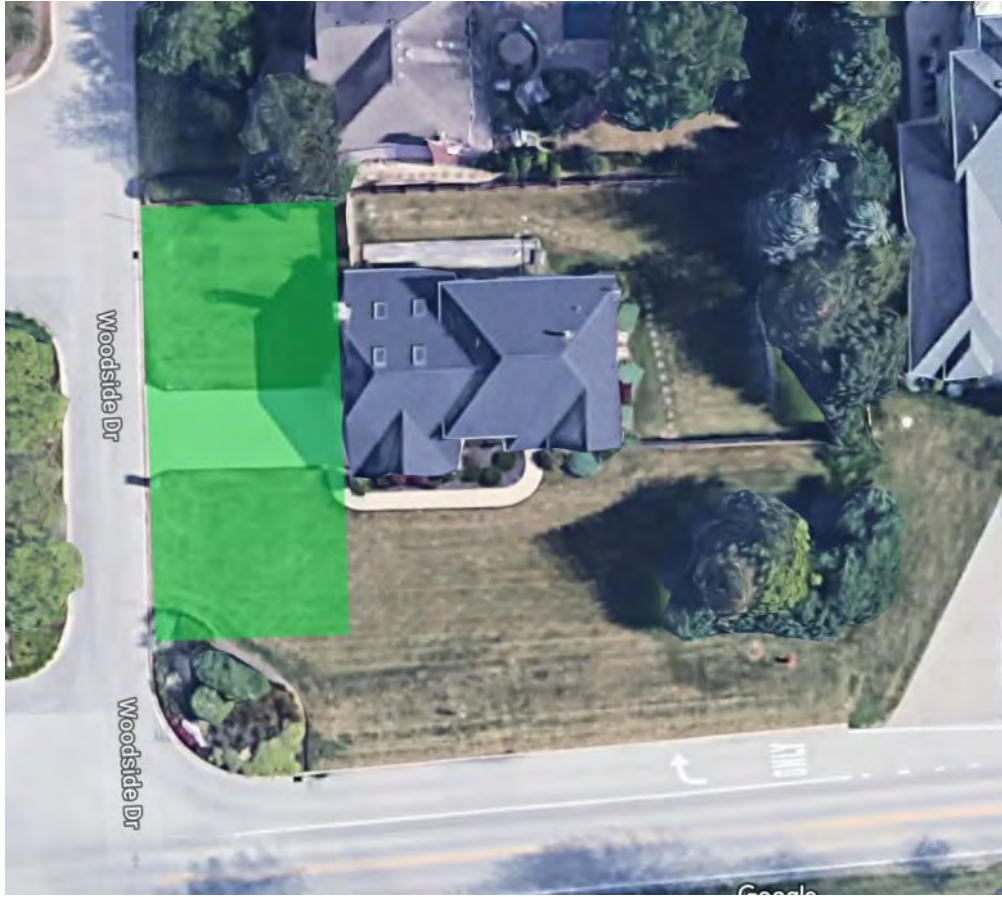
Therefore I am seeking a variance approval to put in a new concrete patio at the property of 417 Woodside Drive as the plans attached show.

Sincerely,



Kevin Taylor  
417 Woodside Drive, Wood Dale, IL 60191  
847-630-6389

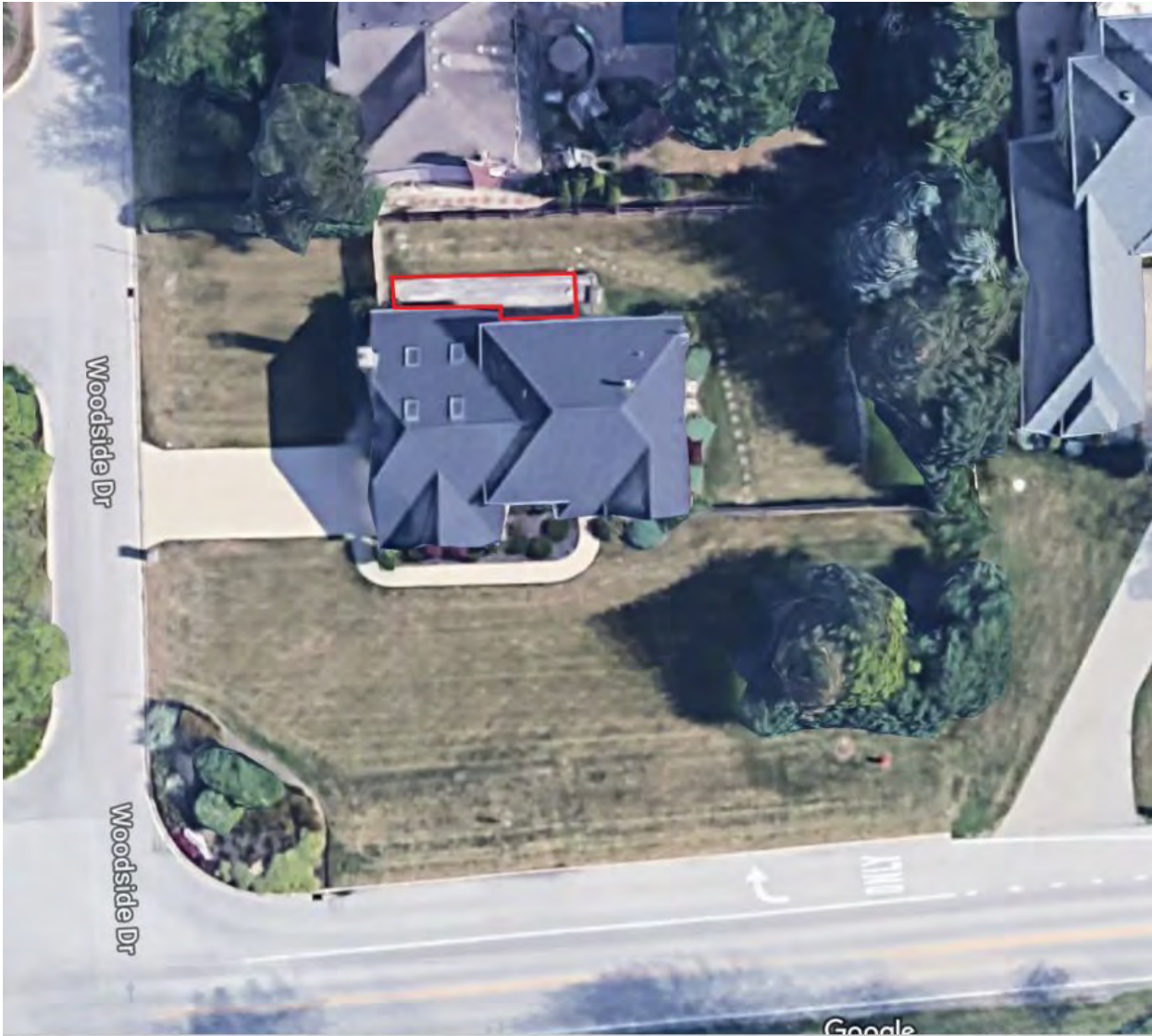
# Front of House by Code



# Front of House by Build



# Existing Deck Outlined

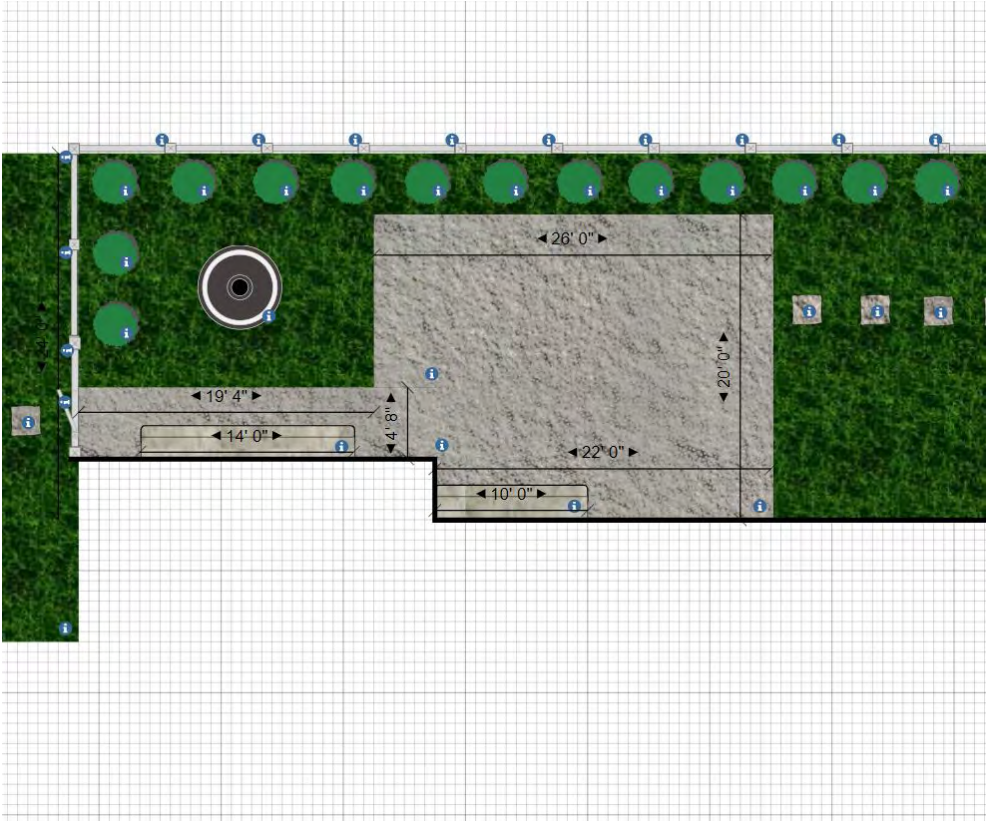
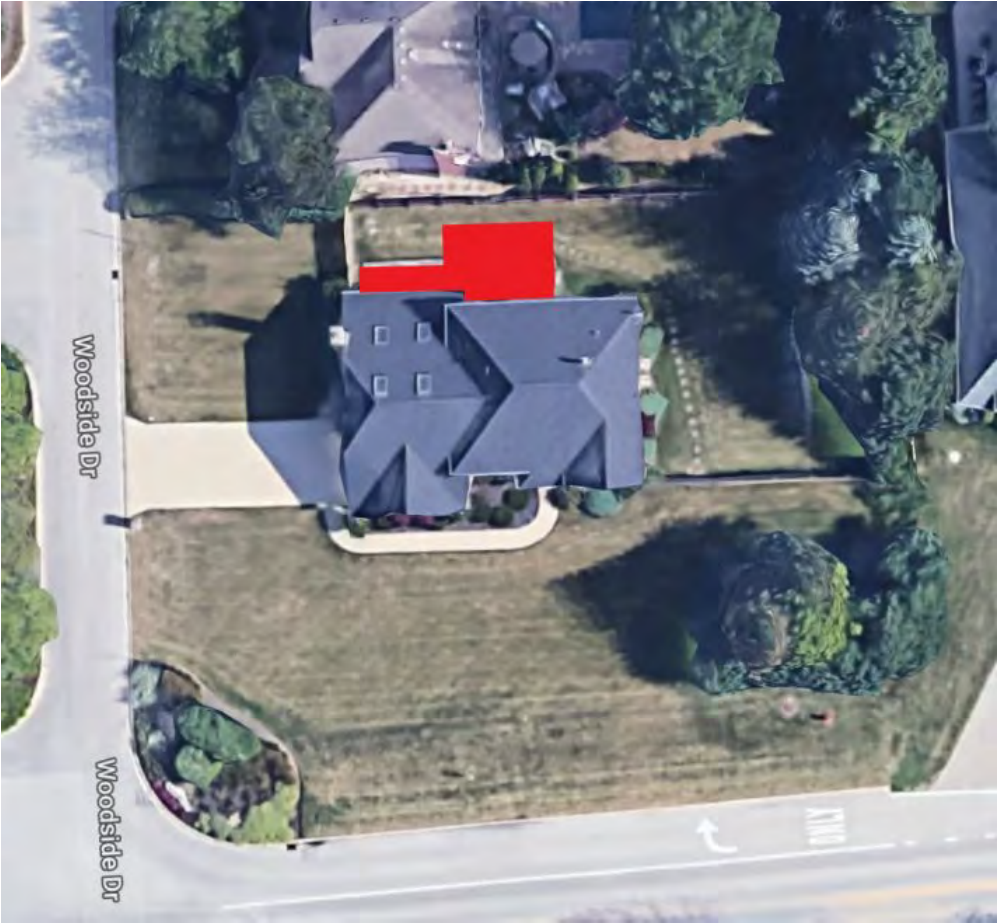


The red outline is where the original deck was built.

# Existing Deck View also displaying Patio Doors



# New Patio Layout





# Variation Standards Questionnaire

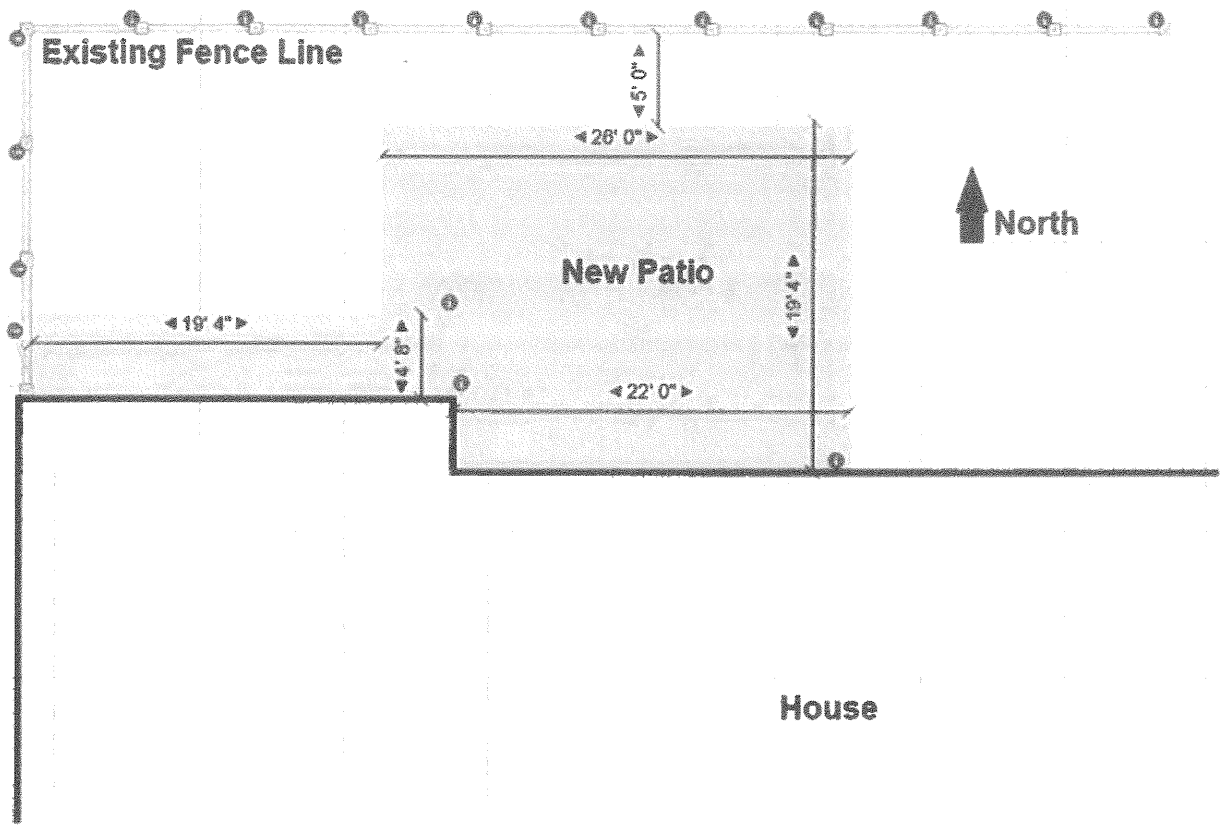
## Responses

No variation shall be authorized by the City Council unless the Community Development Commission shall find evidence establishing the following general standards and criteria (found in Chapter 17, Article IV, Section 17.404.A.5 of the Municipal Code):

1. **The property in question cannot yield a reasonable return if permitted to be used only under the conditions allowed by the regulations of the district in which it is located.** This isn't so much about yielding a reasonable return, as it is a practicality of the use of the property in regards to the location of a patio due to the orientation of the house on the property.
2. **The proposed variation will not merely serve as a convenience to the applicant, but will alleviate some demonstrable and unusual hardship which will result if the strict letter of the regulations were carried out and which is not generally applicable to the property within the same district.** It is not viewed as a convenience, and will alleviate any hardship created by otherwise installing the patio on the east side of the property which is not meant for a patio to be located due to the way the house was originally built.
3. **The alleged hardship has not been directly created by any person presently having a proprietary interest in the premises.** No.
4. **The proposed variation will not be materially detrimental to the public welfare or injurious to other property or improvements in the neighborhood.** Correct, this variation will not have an affect in any such way.
5. **The proposed variation will not impair an adequate supply of light and air to adjacent property, substantially increase congestion in the public streets, increase the danger of fire, or endanger the public safety.** Correct, it will not impair any such things mentioned.
6. **The proposed variation will not alter the essential character of the neighborhood.** Correct, it will not alter the essential features of the neighborhood.
7. **The proposed variation is in harmony with the spirit and intent of Chapter 17 of the Municipal Code.** That is correct.
8. **The existence of any nonconformity anywhere in the city shall not itself be considered grounds for granting a variation for other property.** I wouldn't think so, however, I have learned that this has been a very common issue for many corner lots in which variations have been granted, and further understand that there will be a possible amendment to the existing code to allow for such locations of outdoor living spaces without the need for a variation.

# New Patio Drawing

Exhibit D



Drawing Prepared by: Kevin Taylor

Date: 9/29/2020

Address: 417 Woodside Drive, Wood Dale, IL 60191



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## **REQUEST FOR COUNCIL ACTION**

Referred to Council: November 5, 2020  
Subject: Outdoor Dining  
Staff Contact: Greg Vesta, Police Chief  
Department: Police

**TITLE:** A Resolution Authorizing the City of Wood Dale to Enter into an Agreement to Purchase a Body Camera System and Supporting Software from CDS Office Technologies in an Amount Not To Exceed \$87,610.

### **COMMITTEE ACTION FOLLOW-UP ITEMS:**

There are no follow up items.

Passed committee 7-0.

### **DOCUMENTS ATTACHED**

✓ Resolution

**RESOLUTION NO. R-20-79**

**A RESOLUTION AUTHORIZING THE CITY OF WOOD DALE TO ENTER INTO AN AGREEMENT TO PURCHASE A BODY CAMERA SYSTEM AND SUPPORTING SOFTWARE FROM CDS OFFICE TECHNOLOGIES IN AN AMOUNT NOT TO EXCEED \$87,610.00**

**WHEREAS**, the City of Wood Dale (hereinafter referred to as the “City”) is a duly organized and existing body politic and corporate governed by the provisions of the Illinois Municipal Code, 65 ILCS 5/1-1-1, *et seq.*, and its own duly adopted Municipal Code; and

**WHEREAS**, the City is authorized and empowered under the Illinois Municipal Code, and its Ordinances adopted pursuant thereto, to enter into agreements and to contract for goods and services; and

**WHEREAS**, the Mayor and the City Council of the City seek to ensure that the City is run effectively and efficiently; and

**WHEREAS**, the Mayor and the City Council of the City, seeks the services of CDS Office Technologies as an authorized Panasonic Distributor for the purchase of body camera systems; and

**WHEREAS**, these services are necessary to maintain and promote an effective and efficient City Government; and

**WHEREAS**, after diligent review of the qualifications and services of CDS Office Technologies, the Mayor and the City Council find that CDS Office Technologies as a distributor of Panasonic systems is the most qualified firm to perform the duties sought by the City; and

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY OF WOOD DALE, DUPAGE COUNTY, AN ILLINOIS CORPORATION**, as follows:

**SECTION 1:** The recitals set forth above are incorporated herein and made a part hereof.

**SECTION 2:** The Mayor is authorized to execute a written Agreement on behalf of the City of Wood Dale, which signature shall be attested to by the City Clerk.

**SECTION 3:** The City Manager, staff and/or the City Attorney shall take the steps necessary to put the terms and conditions of the Agreement into effect.

**SECTION 4:** That all ordinances and resolutions, or parts thereof in conflict with the provisions of this Resolution are, to the extent of such conflict, hereby repealed.

**SECTION 5:** That this Resolution shall be in full force and effect from and after its adoption, approval and publication in pamphlet form as provided by law.

PASSED this 5<sup>th</sup> day of November, 2020

AYES: \_\_\_\_\_

NAYS: \_\_\_\_\_

ABSENT: \_\_\_\_\_

APPROVED this 5<sup>th</sup> day of November, 2020

SIGNED: \_\_\_\_\_  
Annunziato Pulice, Mayor

ATTEST: \_\_\_\_\_  
Lynn Curiale, City Clerk



**CDS Office Technologies**

1271 HAMILTON PARKWAY  
 Itasca, Illinois 60143  
 United States  
 (P) 630-625-4519  
 (F) 630-305-9876

**Quotation (Open)**

<b>Date</b> Sep 23, 2020 02:32 PM CDT
<b>Modified Date</b> Sep 23, 2020 03:17 PM CDT
<b>Doc #</b> 487711 - rev 1 of 1
<b>Description</b> 39 x ARB-BWC4-CAMERA
<b>SalesRep</b> Gottlieb, Mark (P) 630-625-4519 (F) 630-305-9876
<b>Customer Contact</b> Frese, William (P) 630-787-3810 wfrese@wooddale.com

**Customer**

City of Wood Dale (CO2941)  
 Frese, William  
 404 N. Wood Dale Rd.  
 Wood Dale, IL 60191  
 United States  
 (P) 773-699-9500

**Bill To**

City of Wood Dale  
 Accounts, Payable  
 404 N. Wood Dale Rd.  
 Wood Dale, IL 60191  
 United States

**Ship To**

City of Wood Dale  
 Kace, Nick  
 404 N. Wood Dale Rd.  
 Wood Dale, IL 60191  
 United States  
 (P) 773-699-9500  
 nick@nktechinc.com

<b>Customer PO:</b>	<b>Terms:</b> Undefined	<b>Ship Via:</b> UPS Ground
<b>Special Instructions:</b>		<b>Carrier Account #:</b>

#	Description	Part #	Qty	Unit Price	Total
1	<b>Panasonic iPRO Arbitrator BWC4000</b> Kit includes BWC4000 Camera, tether with velcro attachment, Klick Fast Mounting Stud, 3 year warranty	<b>ARB-BWC4-CAMERA KIT</b>	39	\$800.00	\$31,200.00
<b>BWC Licensing/Deployment Services Bundle (Local Storage) - UEMS</b>					
2	Panasonic - BWC Licensing Bundle - 3 Years Body Worn, UEMS1, On Premise Storage (per device) for years 1-3, includes device license, help desk support, deployment & hotswap inventory availability	ARB-SOFBWC3OPBUN3	39	\$189.00	\$7,371.00
<b>Main Kit Accidental Damage Coverage</b>					
3	Panasonic Protection Plus - BWC Kit - 3 years Accidental damage coverage - parts and labor - years 1-3 - for BWC Kit	ARB-SVCBWCKTP3Y	39	\$145.00	\$5,655.00
<b>KlickFast Mounting Options for Main Camera</b>					
4	Panasonic - Klick Fast BWC Mount Kit Includes four mount options: Pocket Clamp, Molle Mount, Magnetic Mount & Vest Mount Note: - includes: ARB-BWCKFSTUDKIT, ARB-BWC3MNT-MAG, ARB-BWC3MNT-MOLLE, ARB-BWC3BLTCLIP, ARB-BWCVESTMN	ARB-BWC3MNT-KIT	39	\$120.00	\$4,680.00
<b>Accessories</b>					
5	Panasonic iPRO - BWC4000 Quick Release Battery	ARB-BWC4-BATTERY	8	\$185.00	\$1,480.00
6	Panasonic iPRO - BWC4000 Quick Release Battery Charger - 8 Bay AC Adapter separately	ARB-BWC4-8CHARGE	1	\$599.00	\$599.00
7	Panasonic iPRO - BWC4000 Camera Docking & Charging Station - 8 Bay AC Adapter, USB & Ethernet separately	ARB-BWC4-8DOCK	5	\$1,490.00	\$7,450.00
8	Panasonic iPRO - Power Adapter for 8 Bay Charger AC 100-240 V - 110 Watt	CF-AA5713AM	6	\$78.00	\$468.00
9	Panasonic iPRO - BWC4000 Camera Charger Wall Mount Bracket - 8 Bay Includes attachment plate and mounting hardware	ARB-BWC8BAYWALL	5	\$190.00	\$950.00

#	Description	Part #	Qty	Unit Price	Total
10	<b>Desktop Dock</b> Kit includes BWC 4000 Single camera dock, AC Power Supply, Stand, and USB cable	<b>ARB-BWC4-1DOCKDESK</b>	1	\$308.00	\$308.00
11	<b>Panasonic BWC - Arbitrator In-Car Integration Pieces (for dual triggering support)</b> Kit includes BWC 4000 Single camera dock with wiring, common trigger box (CTB), Antenna, and USB cable	<b>ARB-BWC4-CAR</b>	10	\$608.00	\$6,080.00
<b>Implementation Services</b>					
12	CDS Office Technologies - IT Services Certified Server Software Upgrade Installation and Configuration, Body Worn Camera Configuration, Web Publishing Configuration, Wireless Network Configuration and Testing, Administrator Training	ZBLOCKCNET	1	\$5,600.00	\$5,600.00
13	Panasonic Arbitrator Consulting/Implementation Services - UDE Migration Services	ARB-SOFCONSULT	2	\$2,395.00	\$4,790.00
14	CDS Office Technologies - Training Services Up to two Sessions of End-User Training by Certified Arbitrator Specialist	ARB-TR	1	\$500.00	\$500.00
<b>Redaction Module</b>					
15	Panasonic Arbitrator - IDguard Redaction (on premise) Single seat, Three Year License  Note: - Requires graphics workstation: Win10, i7/i9 processor, 32GB RAM, 512GB SSD, NVIDIA RTX discreet graphics card, or better (separately)	ARB-SOFREDACT3Y	1	\$6,850.00	\$6,850.00
16	Panasonic Arbitrator Consulting/Implementation Services - Integration Services for Redaction	ARB-SOFCONSULHALF	1	\$1,200.00	\$1,200.00
<b>Redaction Workstation Option</b>					
17	Lenovo Legion T730-28ICO 90JF Tower - Core i9 9900K / 3.6 GHz - RAM 32 GB - SSD 1 TB - TCG Opal Encryption 2, NVMe - DVD-Writer - GF RTX 2070 - GigE - WLAN: 802.11ac, Bluetooth 4.1 - Win 10 Pro 64-bit - monitor: none - keyboard: US	90JF00AXUS	1	\$2,429.00	\$2,429.00

**Subtotal: \$87,610.00**  
 Tax (9.750%): \$0.00  
 Shipping: \$0.00  
**Total: \$87,610.00**

CDS Office Technologies disclaims any responsibility for product information and products described on this site. Some product information may be confusing without additional explanation. All product information, including prices, features, and availability, is subject to change without notice. Applicable taxes & shipping may be added to the final order. All returns must be accompanied by original invoice and authorized RMA number within 30 days of invoice date and are subject to a 15% restocking fee. Due to manufacturer's restrictions, Panasonic items are not eligible for return. Late fees may apply to payments past 30 days from invoice date. Please contact your sales representative if you have any questions.



## ARBITRATOR BODY WORN CAMERA BWC4000

- **NEW** Replaceable Battery
- **NEW** H.264 / H.265 Video Compression
- **NEW** MP4 Video File Format
- **NEW** LCD Menu for Tagging
- Rugged IP67 and MIL-STD-810G architecture
- 1080p / 720p / 360p Resolution  
16:9 & 4:3 aspect ratio
- 4 Microphones for better noise reduction
- Compatible with in car video system
- Built-in GPS, Wi-Fi and Bluetooth

### THE NEW ARBITRATOR BODY WORN CAMERA WITH REMOVABLE BATTERY.

Built on Panasonic i-PRO's tradition of video surveillance excellence for law enforcement, the new and improved Arbitrator Body Worn Camera with a removable battery keeps your officers on the street. Featuring a two-piece design, the BWC4000 is IP67 / MIL-STD-810G rated to provide officers with a more reliable way to capture video and audio evidence in nearly any condition.

Arbitrator BWC4000 records in 1080P / 720P and seamlessly integrates with Panasonic i-PRO's Unified Digital Evidence™ Management Software. Arbitrator BWC4000 in unison with Arbitrator in-car video systems and Panasonic i-PRO fixed-surveillance cameras, form a unified evidence management platform that preserves the chain of custody. Flexible storage options enable you to store video evidence on premise, in the cloud or in a hybrid storage solution of both.

**Panasonic**

An Imaging Solution Provider



# ARBITRATOR BODY WORN CAMERA BWC4000

## GENERAL

■ Model Number Arbitrator Body Worn Camera ARB-BWC4-MAINKIT

## HARDWARE SPECS

■ Dimensions Main Control Unit (HxWxD) 3.39 x 2.75 x 0.94 Inches / 86 x 70 x 24 mm  
 ■ Weight Main Controller 6.0 oz  
 ■ Drop Test Yes (6 feet)  
 ■ Waterproof Rating IP67 (IEC60529) Type 4X (UL50), NEMA 4X compliant  
 ■ Field of View / Aspect Ratio [16 : 9 mode] Horizontal : 137 °\*\* Vertical : 79 ° (diagonal : 157°\*\*)  
 [4 : 3 mode] Horizontal : 115 ° Vertical : 87 ° (diagonal : 143°\*\*)  
 ■ Memory 128GB  
 ■ Image Stabilization Yes 6-Axis Gyro, Selectable on Playback  
 ■ Battery / Battery Life Replaceable / More than 12 hours  
 ■ Warranty Main Unit: 3 Years, Battery: 1 Year

## VIDEO / CAMERA / AUDIO

■ Video/Photo Resolutions Available [16:9] 1080P / 720P / 360P  
 [4:3] 1200P / 960P / 480P  
 ■ Video Format MP4  
 ■ Robustness Yes (IP67) / MIL-STD-810G anti salt  
 ■ Frame Rate (FPS) 30 fps  
 ■ Audio Format AAC-LC  
 ■ Pre-Record Video 3 minutes max.

## FEATURES - MAIN UNIT

■ One Touch Record Yes  
 ■ One Touch Photo Yes  
 ■ Time/Date Stamp Yes  
 ■ Instant File Tagging Yes  
 ■ Password Protection Yes  
 ■ Recharge Time 3 Hours  
 ■ GPS Location Tagging Yes  
 ■ GPS Time Sync Yes  
 ■ Vibration Alert Yes  
 ■ GPS Yes  
 ■ Wi-Fi Yes  
 ■ Embedded Bluetooth Yes  
 ■ ICV Integration Yes  
 ■ FIPS 140-2 Yes  
 ■ Docking Station Yes

## RUGGED IP67 AND MIL810G ARCHITECTURE

Arbitrator Body Worn Camera features rock-solid build quality with an IP67 rating and MIL-STD-810G architecture so evidence capture continues uninterrupted, even in the most challenging outdoor environments. Utilizes the versatile Klick Fast™ mounting system.

## VIDEO/PHOTO RESOLUTIONS AVAILABLE:

**[16:9] 1080P / 720P / 360P**

**[4:3] 1200P / 960P / 480P**

Recording evidence in 1080p, 720p and 360p, the Arbitrator BWC4000 provides crystal-clear video clarity that accelerates convictions in court.

## USE LIGHTBAR

### TO WIRELESSLY TRIGGER RECORDING

The Arbitrator BWC4000 can be configured to trigger recordings wirelessly based on connection to light bar, G-Force Trigger, or weapon lock release. This feature also allows you to synchronize recordings with installed Arbitrator HD 360 in-vehicle system.

## ACCESSORIES / OPTIONS

- **ARB-BWC4-CAMERA** Body Worn Camera
- **ARB-BWC4-8DOCK** Multi Dock Charger
- **ARB-BWC3CTB** Common Trigger Box + Power Cable
- **ARB-BWC4-1DOCK** Single Dock Charger
- **ARB-BWC4-1DOCKWIRE** Single Dock + 12V Wiring Harness for vehicle
- **ARB-BWC4-1CHARGE** Single Bay Battery Charge
- **ARB-BWC4-8CHARGE** 8 Bay Battery Charge
- **ARB-BWC4-BATTERY** Spare Battery
- **CF-AA5713AM** 110W AC Adapter for 8Bay and 8Charge
- **CF-AA6413AM** 65W AC Adapter for 1Charge and Pairing Dock in Station



ARB-BWC4-1DOCK



ARB-BWC4-8DOCK



ARB-BWC4-8CHARGE



ARB-BWC4-1CHARGE



ARB-BWC4-BATTERY



ARB-BWC3CTB

## LEARN MORE

[security.us.panasonic.com/public-safety/next-generation-body-worn-camera](https://security.us.panasonic.com/public-safety/next-generation-body-worn-camera)

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## IDguard

Identity Redaction  
Solution

As digital content increases as a result of body-worn cameras & in-car videos, the ability to automate time consuming manual processes for video redaction enables agencies to streamline file editing tasks and respond quickly to Freedom of Information Act (FOIA) requests.

### USER-FRIENDLY, WEB-BASED SOLUTION, WORKING INDEPENDENT OF OTHER EVIDENCE MANAGEMENT SYSTEMS

Panasonic combines AI and machine learning technology to automate the video redaction process.

- Reduce manual processes of uploading, storing, searching, editing and sharing content, to save time and money
- Speed-up the time required to release videos to the public
- Comprehensive administrative tools provide strict, secure, multi-user management with critical editing capabilities
- Available on premise or cloud-based configurations with scalable options for any budget, access or security needs



### EASY-TO-USE INTERFACE

IDguard boasts a simple UI, empowering users to focus on content.

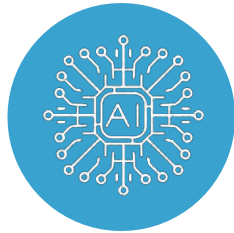
- Easily adjust proper identification settings to blur images from the master video file
- All videos are copies of the original video for evidence management
- Improve investigators' reach by providing fast, accessible information
- Increase accuracy through reduction of human interaction with files

### KEY FEATURES & BENEFITS



#### SPEEDS FOIA REQUESTS

Fulfill FOIA requests in record time through process automation



#### ARTIFICIAL INTELLIGENCE

Increases accuracy by reducing human intervention



**INGESTION API's**  
For UDE & UEMS,  
making integration  
with existing  
systems easy



#### HIGHLY EFFICIENT

Reduces manual  
effort associated with  
editing sensitive files  
by up to 90%



#### ON PREMISE OR CLOUD

Configure with on  
premise or  
cloud-based storage

\*Productivity gain results are based on internal Panasonic testing and pertain only to video use case. Your results may vary based on user variables. IDguard application video processing time and resulting redaction capability is dependent on the number of faces within the video, clarity of facial image, system hardware configuration and user interaction.

## Panasonic Redaction Server requirements

<b>Specifications</b>	<b>Redaction server (minimum specs)</b>	<b>Redaction Server (recommended specs)</b>
<b>Processor</b>	Intel i7	Intel Core i7 or i9 or above
<b>Memory</b>	16 GB or above	32 GB RAM or above
<b>Internal Storage</b>	250 GB (SSD Required) or above	500GB (SSD Required) or above
<b>Supported Operating System</b>	Any of below: <ol style="list-style-type: none"> <li>1. Windows Server 2016Datacenter</li> <li>2. Windows 10 Pro</li> <li>3. Windows 10 Enterprise</li> </ol>	Any of below: <ol style="list-style-type: none"> <li>4. Windows Server 2016Datacenter</li> <li>5. Windows 10 Pro</li> <li>6. Windows 10 Enterprise</li> </ol>
<b>Software Prerequisites</b>	Panasonic Redaction Software	Panasonic Redaction Software
<b>Simultaneous Capacity</b>	Supports 1-3 simultaneous users	Supports 5 simultaneous users
<b>Video Graphics Cards</b>	GeForce GTX 1080	Any from below recommended list: <ol style="list-style-type: none"> <li>1. Titan RTX</li> <li>2. RTX 2080 Ti</li> <li>3. RTX 2080 SUPER</li> <li>4. RTX 2080</li> <li>5. RTX 2070 SUPER</li> <li>6. RTX 2070</li> <li>7. RTX 2060 SUPER</li> <li>8. RTX 2060</li> <li>9. GeForce GTX 1080 Ti</li> </ol> (RTX Series is preferred choice)
<b>Power Supply</b>	Should be compatible with GPU power requirements.	Should be compatible with GPU power requirements.



ARB-BWCVESTMNT – MSRP \$20.00  
Klick Fast Tag on Garment/Vest Mount



ARB-BWC3BLTLOOP – MSRP \$20.00  
Klick Fast Leather Belt Loop



ARB-BWC3BLTCLIP – MSRP \$20.00  
Klick Fast Leather Belt Clip



ARB-BWC3MNT-CLAMP – MSRP \$17.00  
Klick Fast Pocket Clamp



ARB-BWC3MNT-MAG – MSRP \$50.00  
Klick Fast Magnetic Mount



ARB-BWC3MNT-MOLLE – MSRP \$20.00  
Klick Fast Molle Mount



ARB-BWCKFROUNDCLK – MSRP \$14.00  
Klick Fast Round Bolt-Thru BWC Mount



ARB-BWCKFSHOULD17K – MSRP \$45.00  
Klick Fast Shoulder Center Chest Harness BWC Mount



ARB-BWCKFEPAULETTE – MSRP \$18.50  
Klick Fast Epaulette BWC Mount



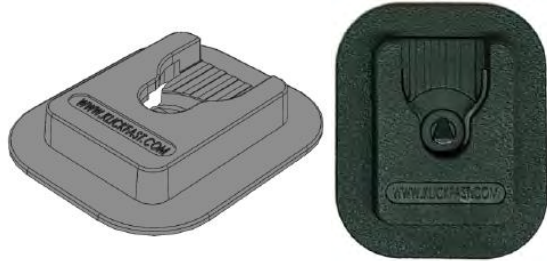
ARB-BWCKF-CLIPON – MSRP \$6.00  
Klick Fast Clip-On Dock, Converts  
Klick Fast to Belt Clip Fitting



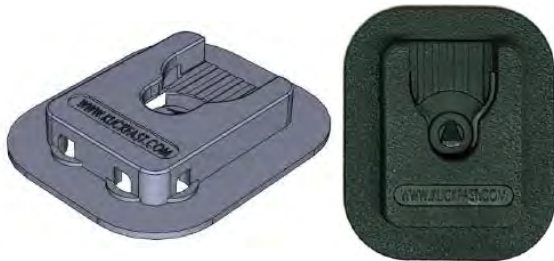
ARB-BWCKF-BUTTON-F – MSRP \$13.00  
Klick Fast Shirt Button “S” Dock for BWC  
mounting to Female Shirts (LH Side Buttons)



ARB-BWCKF-BUTTON-M – MSRP \$13.00  
Klick Fast Shirt Button “S” Dock for BWC  
mounting to Male Shirts (RH Side Buttons)



ARB-BWCKFSEWNINBLK – MSRP \$10.00  
Klick Fast sewn in mount (black)



ARB-BWCKFSEWNINB-L – MSRP \$10.00  
Klick Fast sewn in mount with Lanyard  
Holes (black)





**ARB-BWCVESTMNT**

Klick Fast Tag on Garment/Vest Mount

**ARB-BWC3MNT-KIT – MSRP \$140.00**  
Klick Fast Mounting Kit – includes Tag on Garment/Vest Mount, Leather Belt Clip, Magnetic Mount, MOLLE Mount & Adapter Plate in a carry pouch



**ARB-BWC3BLTCLIP**

Klick Fast Leather Belt Clip



**ARB-BWC3MNT-MAG**

Klick Fast Magnetic Mount



**ARB-BWC3KF1STPLATE**

Klick Fast Adapter Plate Low Profile



**ARB-BWC3MNT-MOLLE**

Klick Fast Molle Mount



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## **REQUEST FOR COUNCIL ACTION**

Referred to Council:	November 5, 2020
Subject:	Investment Policy Update Ordinance
Staff Contact:	Brad Wilson, Finance Director
Department:	Finance

**TITLE:** An Ordinance Repealing and Restating the City Of Wood Dale's Investment Policy as Set Forth in Article 5, Section 1.509 of the Wood Dale Municipal Code

### **COMMITTEE ACTION FOLLOW-UP ITEMS:**

Committee Vote – 7-0

### **RECOMMENDATION:**

**Approve the attached Ordinance updating the City's Investment Policy**

### **BACKGROUND:**

The City's investment policy was last updated in late 2011/early 2012.

### **ANALYSIS:**

Staff is continuing to work through the issuance of multiple RFPs this year. With the completion of the banking RFP, the next one on the list is investments. In order to ensure that we get the best results possible, we needed to be sure that our investment policy was up to date.

As it has been a number of years since it was last updated, staff had a couple of outside professionals review the policy. As the City is a non-home rule entity, and there were



very few (if any) changes to the investment authority of non-home units over the past 8+ years, there was very little to change.

A summary of the changes that were more than cosmetic:

- Page 1, Scope – Added “the City’s” to clarify the scope/reach of the policy.
- Page 2, Legality – Added a reference to the ILCS code section.
- Page 6, Collateralization – Added language related to Third party safekeeping and reporting. This is the City’s current practice, added clearer language.
- Multiple – Added language related to The Illinois Trust. This is a new investment pool that municipalities in Illinois can participate in, should they so desire. Both this pool and the Illinois Funds have a AAAM rating from S&P, which is the highest rating an investment pool can receive.
- Page 9, Appendix A – Cleaned up the list. Being on this list does not mean that the City will or has to have investments with the bank/pool in question, but simply provides the opportunity to do so.
  - Removed Suburban Bank and Trust  
Charter One Bank  
Wells Fargo (SSA Bonds only)
  - Added Wintrust (Wood Dale Bank & Trust)  
The Illinois Trust (AAAM rated by S&P)
  - Updated Harris Bank to BMO  
Illinois Funds (AAAM rated by S&P)

**DOCUMENTS ATTACHED**

✓ Ordinance

**ORDINANCE NO. 0-20-031**

**AN ORDINANCE REPEALING AND RESTATING THE CITY OF WOOD DALE'S INVESTMENT POLICY AS SET FORTH IN ARTICLE 5, SECTION 1.509 OF THE WOOD DALE MUNICIPAL CODE**

**WHEREAS**, the City of Wood Dale (hereinafter the "City") is a body politic and corporate, organized and existing pursuant to the Illinois Municipal Code, 65 ILCS 5/1-1- 1 *et seq.*; and

**WHEREAS**, the City is authorized and empowered under the Municipal Code, 65 ILCS 5/3.1-35-5 *et seq.*, to make and adopt investment policies; and

**WHEREAS**, the City is constantly striving to ensure that funds collected from the taxpayers and citizens of the City are properly and wisely invested, allocated and managed; and

**WHEREAS**, the City seeks to maintain a transparent Investment Policy; and

**WHEREAS**, the Wood Dale Municipal Code, Article 5, Section 1.509, sets forth the City's Investment Policy; and

**WHEREAS**, in 2011, the City Council adopted Ordinance 0-11-13, which provided for amendments to the City's Investment Policy and set forth a list of banking institutions with which the City would conduct business; and

**WHEREAS**, the City staff has recommended that it is appropriate as well at this time to restate the official Investment Policy as set forth in Article 5, Section 1.509, to include the amendments made to the Investment Policy through enactment and adoption of this Ordinance; and

**WHEREAS**, the Mayor and the City Council further find that it is in the City's best interest to repeal the existing Section 1.509, and restate it in total to set forth the official Investment Policy adopted and enacted for the City of Wood Dale.

**NOW, THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF WOOD DALE, DUPAGE COUNTY, ILLINOIS, DULY ASSEMBLED AT A REGULAR MEETING,** as follows:

**SECTION ONE:** That the foregoing recitals set forth above are true and correct and incorporated herein by reference.

**SECTION TWO:** That Chapter I, Article 5, Section 1.509 as presently stated is hereby repealed.

**SECTION THREE:** That Chapter 1, Article 5, Section 1.509 is hereby restated in total as set forth herein, to set forth the Investment Policy of the City of Wood Dale:

### **Sec. 1.509. Investment Policy**

#### **I. Policy**

It is the policy of the City of Wood Dale to invest public funds in a manner, which will provide the highest investment return with the maximum security, while meeting the daily cash flow demands of the entity and conforming to all state and local statutes governing the investment of public funds.

#### **II. Scope**

This policy applies to the investment of all the City's funds, excluding the investment of employees' retirement funds. Proceeds from certain bond issues are covered by a separate policy.

##### **1. Pooling of Funds**

Except for cash in certain restricted and special funds, the City of Wood Dale will consolidate cash and reserve balances from all funds to maximize investment earnings and to increase efficiencies with regard to investment pricing, safekeeping and administration. Investment income will be allocated to the various funds based on their respective participation and in accordance with Generally Accepted Accounting Principles (GAAP).

#### **III. Prudence**

Investments shall be made with judgment and care, under current circumstances, which persons of prudence, discretion and intelligence exercise in the management of their own affairs, not for speculation, but for investment, considering the probable safety of their capital, as well as the probable income to be derived.

The standard of prudence to be used by investment officials shall be the "prudent person" standard and shall be applied in the context of managing an overall

portfolio. Investment officials, acting in accordance with written procedures and this investment policy and exercising due diligence, shall be relieved of personal responsibility for an individual security's credit risk, custodial credit risk or market price changes, provided that deviations from expectations are reported in a timely manner and appropriate action is taken to control adverse developments.

#### **IV. General Objectives**

The primary objectives, in order of priority, shall be:

- Legality – conformance with federal, state and other legal requirements
- Safety – preservation of capital and protection of investment principal
- Liquidity – maintenance of sufficient liquidity to meet operating requirements
- Yield – attainment of market rates of return

The portfolio should be reviewed periodically as to its effectiveness in meeting the entity's needs for legality, safety, liquidity, rate of return, diversification and its general performance.

##### **1. Legality**

The City's investments will be in compliance with all federal, state and other legal statutes including Illinois state statutes (Public Funds Investment Act, Chapter 30 ILCS 235), which governs the investment of public funds.

##### **2. Safety**

Safety of principal, along with legality, are the foremost objectives of the investment program. Investments shall be undertaken in a manner that seeks to ensure the preservation of capital in the overall portfolio. The objective will be to mitigate credit risk, custodial credit risk, and interest rate risk in the overall portfolio. The City shall diversify its investments to minimize risks regarding individual securities.

###### **a. Credit Risk**

The City of Wood Dale will minimize credit risk, which is the risk of loss due to the failure of the security issuer or backer, by:

- Limiting investments to the types of securities listed in Section VII (1) of this Investment Policy
- Pre-qualifying the financial institutions, broker/dealers, intermediaries, and advisers with which the City will do business in accordance with Section VI (1) of this policy
- Diversifying the investment portfolio so that the impact of potential losses from any one type of security or from any one individual issuer will be minimized

###### **b. Interest Rate Risk**

The City will minimize interest rate risk, which is the risk that the market value of securities in the portfolio will fall due to changes in market interest rates, by:

- Structuring the investment portfolio so that securities mature to meet cash requirements for ongoing operations, thereby avoiding the need to sell securities in the open market prior to maturity
- Investing operating funds primarily in shorter-term securities, money market, or similar investment pools and limiting the average maturity of the portfolio in accordance with this policy (see section VIII (2)).

### **c. Custodial Credit Risk**

Custodial credit risk for investments is the risk that, in the event of the failure of the counterparty to the investment, the City will not be able to recover the value of its investments that are in possession of an outside party. To limit its exposure, the City's investment policy requires all security transactions that are exposed to custodial credit risk to be processed on a delivery versus payment basis with the underlying investments held by an independent third-party custodian and evidenced by safekeeping receipts. Illinois Funds, Illinois Trust and IMET are not subject to custodial credit risk.

## **3. Liquidity**

The investment portfolio shall remain sufficiently liquid to meet all operating requirements that may be reasonably anticipated. This is accomplished by structuring the portfolio so that securities mature concurrently with cash needs to meet anticipated demands (static liquidity). Furthermore, since all possible cash demands cannot be anticipated, the portfolio should consist largely of securities with active secondary or resale markets (dynamic liquidity). Alternatively, a portion of the portfolio may be placed in Government money market funds or local government investment pools, which offer same-day liquidity for short-term funds.

## **4. Yield**

The investment portfolio shall be designed with the objective of attaining a market rate of return throughout budgetary and economic cycles, taking into account the legality, safety and liquidity objectives described above.

The core investments are to be limited to relatively low risk securities in anticipation of earning a fair return relative to the risk being assumed. Securities shall generally be held until maturity with the following exceptions:

- A security with declining credit may be sold early to minimize loss of principal.
- A security swap would improve the quality, yield, or target duration in the portfolio.
- Liquidity needs of the portfolio require that the security be sold.

## **V. Delegation of Authority**

Authority to manage the investment program is granted to the Finance Director, hereinafter referred to as Investment Officer. Responsibility for the operation of the investment program is hereby delegated to the Investment Officer, who shall act in accordance with established written procedures and internal controls for the operation of the investment program consistent with this investment policy. The Investment Officer shall be responsible for all transactions undertaken and shall establish a system of controls to regulate the activities of subordinate officials.

## **VI. Safekeeping and Custody**

### **1. Authorized Financial Dealers and Institutions**

The Finance Department shall maintain a list of financial institutions authorized by the City Council to provide investment services. In addition, a list will also be maintained of approved security broker/dealers selected by creditworthiness (e.g. a minimum capital requirement of \$10,000,000 and at least five years of operation. These may include “primary” dealers or regional dealers that qualify under Securities and Exchange Commission (SEC) Rule 15C3-1 (uniform net capital rule). Broker/dealers must be certified with the National Association of Security Dealers, be members of the Securities Investor Protection Corporation (SIPC) and be registered in the State of Illinois. Broker/dealers are also required to furnish annual audited financial statements.

All financial institutions and broker/dealers who desire to become qualified for investment transactions must supply the following as appropriate:

- Audited financial statements
- Proof of National Association of Securities Dealers (NASD) certification
- Proof of state registration
- Completed broker/dealer questionnaire
- Certification of having read and understood and agreeing to comply with the City’s investment policy.

An annual review of the financial condition and registration of qualified financial institutions and broker/dealers will be conducted by the Investment Officer.

Quality of service, pricing, and fees shall also be factors evaluated when considering a financial institution and/or broker/dealer.

Investment managers and/or money managers may only be utilized by specific approval of the City Council.

### **2. Ethics and Conflicts of Interest**

Officers and employees involved in the investment process shall refrain from personal business activity that could conflict with the proper execution and management of the investment program, or that could impair their ability to make impartial decisions. Employees and investment officials shall disclose any material interests in financial institutions with which they conduct business. They shall further disclose any personal financial/investment positions that could be related to

the performance of the investment portfolio. Employees and officers shall refrain from undertaking personal investment transactions with the same individual with whom business is conducted on behalf of the City.

### **3. Internal Controls**

The Investment Officer is responsible for establishing and maintaining an internal control structure designed to ensure that the assets of the City are protected from loss, theft or misuse. Details of the internal controls system shall be documented in an investment procedures manual and shall be reviewed and updated annually. The internal control structure shall be designed to provide reasonable assurance that these objectives are met. The concept of reasonable assurance recognizes that (1) the cost of a control should not exceed the benefits likely to be derived and (2) the valuation of costs and benefits requires estimates and judgments by management.

The internal controls structure shall address the following points:

- Control of collusion
- Separation of transaction authority from accounting and record keeping
- Custodial safekeeping
- Avoidance of physical delivery of securities
- Clear delegation of authority to subordinate staff members
- Written confirmation of transactions for investments and wire transfers
- Authorizations of wire transfers
- Development of a wire transfer agreement with the lead bank and third-party custodian

Accordingly, the Investment Officer shall establish a process for an annual independent review by an external auditor to assure compliance with policies and procedures or alternatively, compliance should be assured through the City's annual independent audit.

### **4. Delivery vs. Payment**

All trades of marketable securities will be executed by delivery vs. payment (DVP) to ensure that securities are deposited in an eligible financial institution prior to the release of funds.

### **5. Safekeeping**

Securities will be held by a [centralized] independent third-party custodian selected by the entity as evidenced by safekeeping receipts in the City's name and a written custodial agreement. The safekeeping institution shall annually provide a copy of their most recent report on internal controls (Statement of Auditing Standards No. 70, or SAS 70).

## **VII. Suitable and Authorized Investments**

### **1. Investment Types**

Consistent with the GFOA Policy Statement on State and Local Laws Concerning Investment Practices, the following investments will be permitted by this policy and are those defined by state and local law where applicable; the City may invest in any type of security permitted by law regarding investment of public funds. Authorized investments include the following:

- Bonds, notes, certificates of indebtedness, treasury bills, treasury strips, or other securities, which are guaranteed by the full faith and credit of the United States of America (USA)
- Bonds, notes, debentures or other similar obligations of the USA or its Agencies
- Interest bearing savings and checking accounts, non-negotiable certificates of deposit, or any other investment constituting direct obligations of any financial institution as defined by the Illinois Banking Act and that is FDIC insured or collateralized
- The Illinois Funds Investment Pool
- The Illinois Metropolitan Investment Fund
- The Illinois Trust, Local Government Investment Pools
- Government money market funds permissible under state law

An additional restriction shall be placed on investments in derivative securities. Derivative investments are restricted to those investment types listed above.

The City shall utilize a competitive process to evaluate the selection of individual investments when seeking securities with a term maturity. The City shall seek quotes from at least three participants in the investment program. The quote, which provides the best financial benefit to the City, will be selected for the investment unless it is deemed of greater benefit for funds to be invested in an interest bearing savings account, checking account, The Illinois Funds, The Illinois Trust, The Illinois Metropolitan Investment Fund, or a money market.

## **2. Collateralization**

Where allowed by state law and in accordance with the GFOA Recommended Practices on the Collateralization of Public Deposits, full collateralization will be required on all demand deposit accounts, including checking accounts and non-negotiable certificates of deposit in excess of applicable FDIC insurance. The City will accept any of the following assets as collateral:

- U.S. Government Securities
- Obligations of Federal Agencies
- Obligations of Federal Instrumentation
- Obligations of the State of Illinois
- Obligations of the City of Wood Dale
- General Obligation Municipal Bonds rated "A1" or better
- Any other collateral identified in Illinois law as acceptable for use by the City of Wood Dale

The City reserves the right to accept/reject any individual security including those of a type named above.

The amount of collateral provided will be not less than 105% of the fair market



value of the net amount of public funds secured. Pledged security shall be held in safekeeping by an independent third party custodian (depository) or by the Federal Reserve Bank in the name of the municipality. Financial institutions must enter into a written collateral agreement with the City. The provisions and terms of the agreement must be in a form that meets the approval of the City Attorney.

Third party safekeeping is required for all collateral. To accomplish this, the pledged securities will be held at a safekeeping depository, separate from the bank where the deposits are placed, as approved from time to time by the Investment Officer. Regular reporting is required to verify that the pledged securities are in accordance with the policy.

## **VIII. Investment Parameters**

### **1. Diversification**

In order to reduce the risk of default, the City shall diversify its investment by security type and institution. The investment portfolio of the City shall not exceed the following diversification limits unless specifically authorized by the City Council of Trustees.

- U.S. Treasury securities shall not exceed 90% of the investment portfolio
- U.S. Government agency investments shall not exceed 50% of the investment portfolio with no more than 20% of the portfolio invested in the obligations of a single agency
- Financial institution certificates of deposit shall not exceed 75% of the portfolio
- Investments in the Illinois Metropolitan Investment Fund shall not exceed 50% of the portfolio
- Investments in Government money market funds shall not exceed 75% of the portfolio
- Deposits in the Illinois Funds & the Illinois Trust shall not be limited

### **2. Maximum Maturities**

To the extent possible, the City shall attempt to match its investments with anticipated cash flow requirements. Unless matched to a specific cash flow, the City will not directly invest in securities maturing more than five (5) years from the date of purchase or in accordance with state and local statutes and ordinances. The City shall adopt weighted average maturity limitations (which often range from 90 days to 3 years), consistent with the investment objectives.

Reserve funds and other funds with longer-term investment horizons may be invested in securities exceeding five (5) years if the maturities of such investments are made to coincide as nearly as practicable with the expected use of funds. The intent to invest in securities with longer maturities shall be disclosed in writing to the legislative body.

Because of inherent difficulties in accurately forecasting cash flow requirements, a portion of the portfolio should be continuously invested in readily available funds such as local government investment pools, money market funds, or overnight repurchase agreements to ensure that appropriate liquidity is maintained to meet

ongoing obligations.

## **IX. Reporting**

### **1. Methods**

The Investment Officer shall prepare an investment report at least quarterly, including a management summary that provides an analysis of the status of the current investment portfolio and the individual transactions executed over the last quarter. This management summary will be prepared in a manner, which will allow the City to ascertain as to whether investment activities during the reporting period have conformed to the investment policy. The report should be provided to the entity's chief administrative officer and the legislative body. The report will include the following:

- Listing of individual securities held at the end of the reporting period.
- Realized and unrealized gains or losses resulting from appreciation or depreciation by listing the cost and market value of securities over one-year duration that are not intended to be held until maturity (in accordance with Governmental Accounting Standards Board (GASB) requirements).
- Average weighted yield to maturity of portfolio on investments as compared to applicable benchmarks.
- Listing of investment by maturity date.
- Percentage of the total portfolio which each type of investment represents.
- Results of bids for securities purchased during the previous quarter.

### **2. Performance Standards**

The investment portfolio will be managed in accordance with the parameters specified within this policy. The portfolio should obtain a market average rate of return during a market/economic environment of stable interest rates. A series of appropriate benchmarks shall be established against which portfolio performance shall be compared on a regular basis. The benchmarks shall be reflective of the actual securities being purchased and risks undertaken and the benchmarks shall have a similar weighted average maturity as the portfolio.

The City's investment strategy is generally passive, meaning securities are intended to be held to maturity. Given this strategy, the benchmark to be utilized to determine if market yields are being achieved shall be the 90 day U.S. Treasury Bill.

### **3. Marking to Market**

The market value of the portfolio shall be calculated at least quarterly, and a statement of the market value of the portfolio shall be issued at least quarterly. This will ensure that review of the investment portfolio, in terms of value and price volatility, has been performed consistent with the GFOA Recommended Practice on "Mark-to-Market Practices for State and Local Government Investment Portfolios and Investment Pools." In defining market value, considerations should be given to the GASB Statement 31 pronouncement.

**X. Policy Considerations**

**1. Exemption**

Any investment currently held that does not meet the guidelines of this policy shall be exempted from the requirements of this policy. At maturity or liquidation, such monies shall be reinvested only as provided by this policy.

**2. Amendments**

This policy shall be reviewed on an annual basis. Any changes must be approved by the City Council in consultation with the individuals charged with maintaining internal controls.

**XI. Approval of Investment Policy**

The investment policy shall be formally approved and adopted by the City Council of the City of Wood Dale and reviewed annually.

**SECTION FOUR:** That the City Clerk of the City of Wood Dale be and is directed hereby to publish this Ordinance in pamphlet form, pursuant to the statutes of the State of Illinois.

**SECTION FIVE:** That this Ordinance shall be in full force and effect from and after its passage, approval, and publication in the manner provided by law.

PASSED this 5<sup>th</sup> day of November, 2020.

AYES: \_\_\_\_\_

NAYS: \_\_\_\_\_

ABSENT: \_\_\_\_\_

APPROVED this 5<sup>th</sup> day of November, 2020.

SIGNED: \_\_\_\_\_  
Annunziato Pulice, Mayor

ATTEST: \_\_\_\_\_  
Lynn Curiale, City Clerk



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## **REQUEST FOR COUNCIL ACTION**

Referred to Council: November 5, 2020  
Subject: Banking RFP Resolution  
Staff Contact: Brad Wilson, Finance Director  
Department: Finance

**TITLE:** A Resolution Designating the Wood Dale Bank & Trust, a Wintrust Community Bank, as the Banking Institution for the City Of Wood Dale

**COMMITTEE ACTION FOLLOW-UP ITEMS:** Approved at Committee unanimously.

**RECOMMENDATION:** Approve the attached Resolution designating Wood Dale Bank & Trust as the primary bank for the City.

There are no formal document(s) needed to establish the banking relationship as the City has previously entered into those agreements in February, 2013.

**DOCUMENTS ATTACHED**

✓ Resolution

**RESOLUTION R-20-80**

**A RESOLUTION DESIGNATING THE WOOD DALE BANK & TRUST, A WINTRUST  
COMMUNITY BANK, AS THE BANKING INSTITUTION  
FOR THE CITY OF WOOD DALE**

**WHEREAS**, the City of Wood Dale (hereinafter the “City”) is a body politic and corporate, organized and existing pursuant to the Illinois Municipal Code, 65 ILCS 5/1-1-1, *et seq.*; and

**WHEREAS**, the City possesses the authority, pursuant to the Illinois Municipal Code, 65 ILCS 5/1-1-1 *et seq.*, to adopt ordinances pertaining to the public health, safety and welfare; and

**WHEREAS**, the City Council of the City (hereinafter referred to as the “City Council”) is the corporate authority for the City and is authorized by law to exercise all powers and to control the affairs of the City; and

**WHEREAS**, the City Council possesses full power and authority to approve and pass all necessary ordinances, resolutions, rules and regulations necessary for carrying into effect the objects for which the City was formed, in accordance with the Illinois Municipal Code; and

**WHEREAS**, the City, pursuant to its authority under the Illinois Municipal Code, 65 ILCS 5/1-1-1 *et seq.*, is authorized to contract for services and to designate banks and savings and loans in which the funds and monies in its custody may be deposited; and

**WHEREAS**, the City has solicited various banks for information relative to the services provided, interest rates paid and the provision of other banking services and has determined that the Wood Dale Bank & Trust, a WINTRUST Community Bank is best suited to serve the Banking needs of the City.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WOOD DALE, DUPAGE COUNTY, ILLINOIS, as follows:

SECTION 1. The recitals set forth above are incorporated herein and made a part hereof.

SECTION 2. The Wood Dale Bank & Trust, a WINTRUST Community Bank is hereby designated as the depository for such deposits and funds of the City and is hereby the designated Banking Institution of the City.

SECTION 3. The City Manager, City Treasurer, City Finance Director and the staff are hereby authorized to take such action as may be necessary to carry out the terms of this Resolution.

SECTION 4. The City Manager, City Treasurer and City Finance Director are authorized, by and on behalf of the City, to open such accounts as they deem necessary or appropriate at said Bank, to endorse any checks, drafts, notes, and money orders payable to, or otherwise being the property of, the City, and to deposit them in such Bank Accounts, and to draw and sign checks on the funds so deposited in such Accounts in the name of the City, in accordance with the policy of the City.

SECTION 5. This Resolution shall be in full force and effect from and after its adoption, approval, and publication in pamphlet form as provided by law.

PASSED this 5th day of November 2020

AYES: \_\_\_\_\_

NAYS: \_\_\_\_\_

ABSENT: \_\_\_\_\_

APPROVED this 5th day of November 2020

SIGNED: \_\_\_\_\_  
Annunziato Pulice, Mayor

ATTEST: \_\_\_\_\_  
Lynn Curiale, City Clerk



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## **REQUEST FOR COUNCIL ACTION**

Referred to Council: November 5, 2020  
Subject: Engineering Design and Development  
Standards Manual  
Staff Contact: Alan Lange, Public Works Director  
Department: Public Works

**TITLE:** A Resolution Adopting the City of Wood Dale Engineering Design and Development Standards Manual

### **COMMITTEE ACTION FOLLOW-UP ITEMS:**

Passed 7-0

The manual was reviewed and discussed at the September 24, 2020 Public Works Committee meeting. Several revisions were requested as well as several items for information only. A summary of the requested revisions and information items is listed below.

#### **Topsoil Specifications**

It was requested by the Committee that staff ensure the specification for topsoil restoration be of higher quality than the correlating IDOT standard specification.

After review of both specifications it was determined that the City's specification for topsoil is indeed stricter than the IDOT standard. IDOT's standard for additional topsoil (not topsoil stockpiled and reused from excavation) from the Illinois Standard Specification for Road and Bridge Construction is as follows:

*"The surface of the topsoil or compost/topsoil blend shall be free from clods, stones, sticks, and debris and shall be according to the lines, grades and the minimum thickness shown on the plans."*

Likewise, the City's standard specification for topsoil reads as follows:

*“Topsoil shall be a loamy soil with an organic content between one and ten percent. It shall be relatively free from large roots, sticks, weeds, brush or stones larger than 1 inch in diameter, or other litter and waste products. The topsoil shall be capable of supporting and germinating vegetation.”*

The City’s specification not only establishes a measurable standard for organic content which contributes to soil health but for the maximum allowable diameter for solids suspended in the soil as well. As there is minimal range in the quality of pulverized topsoil from material vendors, this is the highest quality standard that staff believes could be enforced. Some of the Committee’s concerns were related to quality control and assurance for construction materials. Staff has at times requested load tickets to verify the quality of topsoil in accordance with the specification and will continue to work closely with consultants and contractors to ensure that the materials supplied for public projects adhere to the City’s approved standards.

**Language Regarding Site Abandonment**

Due to issues in the past with contractors abandoning the construction site for extended periods of time, the City attorney has drafted language which will be incorporated into the City’s template contract for public improvement projects. The following language will be added to Section III of the contract template.

*“Contractor shall prioritize this Project in accordance with the timelines set forth in the Bid Specifications and the Contract. In no event shall the Contractor cease to perform work on this Project for a period of more than five (5) consecutive business days.*

*In the event that circumstances arise which require or warrant the Contractor ceasing work on the Project for a period in excess of five (5) business days, the Contractor shall provide Notice to the City, with Notice to the Public Works Director and the Project Engineer. Said Notice shall provide the basis for the Contractor being unable to perform work on the Project for said period of time.*

*In the event that the basis for the delay is not acceptable to the City, the City shall so notify the Contractor immediately. In such case, the Contractor shall arrange to return to the Project immediately following any five (5) day absence.*

*Nothing herein is intended to or shall alter the Substantial Completion or Final Completion requirements set forth in the Contract. In addition, nothing herein is intended to or shall alter the Liquidated Damage provisions of the Contract.”*

It should be noted that although the City may be limited in its authority to force the contractor to be on site at any specific time there are existing mechanisms in place to enforce contract completion dates in the form of liquidated damages assessed for work extending beyond both the substantial and final completion dates. The City has been successful in the past with assessing liquidated damages thereby holding contractors accountable to complete projects by these specified benchmark dates.



### **Information Regarding Trench Backfill Compaction**

The question was raised regarding how roadway as well as trench backfill compaction data is collected and enforced. When existing grades are disturbed in roadway and utility construction, before surface restoration is completed the contractor must verify that the disturbed area is satisfactorily compacted to reduce future settlement. The method by which compaction is performed is typically left to the contractor. Various mechanical and hydraulic methods are often used such as machine roller or tamping, as well as jetting or trench inundation. Verification of compaction levels is typically performed by a third party QAQC firm using proctor density testing or similar methods. Additionally, Public Works contracts stipulate that contractors provide one-year labor and materials warranties which obligates them to correct any differential settlement within the project limits.

### **Errors Found within Document**

The following misprints or clarifications were identified and corrected within the document:

- Page 4, Definition 9 – “compiled” has been changed to “complied”
- Page 6, Section 10 – “vendor” has been changed to “bidder”
- Page 8, Section 22 – “save” has been changed to “hold”

### **Searchable PDF**

As requested the manual will be uploaded as a searchable document on the City’s website. Additionally, commonly used details will be placed as easily accessible links on the website as well.

### **BACKGROUND:**

City staff had previously identified a need to establish standards of construction workmanship and materials for City improvements as well as improvements on City infrastructure by private developers. To satisfy this need the City previously contracted with Thomas Engineering to create a set of written specifications and detail drawings for various elements of public infrastructure relating to water distribution, sanitary and storm collection, pavement, street lighting and signage, landscaping and erosion control, as well as administrative details. These documents were reviewed and modified by City staff as well as the City’s engineer to ensure they were complete, void of any conflicts with City Code, as well as taking into account the most up-to-date industry practices and materials. The standards were compiled into one document to be used by reference for City staff and engineers as well as private developers and will be modified as needed to remain up-to-date with the most current practices and meet the needs of the City. Specifications and design standards relating to small cell wireless infrastructure will be adopted later as these are still in development.

### **ANALYSIS:**

There is no direct cost related to the adoption of this manual.

### **DOCUMENTS ATTACHED**

- ✓ Resolution
- ✓ REVISED Engineering Design and Development Standards Manual

**RESOLUTION NO. R-20-81**

**A RESOLUTION ADOPTING THE CITY OF WOOD DALE ENGINEERING DESIGN AND DEVELOPMENT STANDARDS MANUAL**

**WHEREAS**, the City of Wood Dale (hereinafter referred to as the “City”) is a duly organized and existing body politic and corporate governed by the provisions of the Illinois Municipal Code, 65 ILCS 5/1-1-1, *et seq.*, and its own duly adopted Municipal Code; and

**WHEREAS**, the City is authorized and empowered under the Illinois Municipal Code, and its Ordinances adopted pursuant thereto, to enter into agreements and to contract for goods and services; and

**WHEREAS**, the Mayor and the City Council of the City seek to ensure that the City is run effectively and efficiently; and

**WHEREAS**, the Mayor and the City Council of the City, requested that staff and consultants develop an **ENGINEERING DESIGN AND DEVELOPMENT STANDARDS MANUAL** for the purpose of established minimum standards and conformity amongst public improvement projects; and

**WHEREAS**, these services are necessary to maintain and promote an effective and efficient City Government; and

**NOW, THEREFORE, BE IT RESOLVED BY THE CITY OF WOOD DALE, DUPAGE COUNTY, AN ILLINOIS CORPORATION**, as follows:

**SECTION 1:** The recitals set forth above are incorporated herein and made a part hereof.

**SECTION 2:** The Mayor is authorized to execute this Resolution on behalf of the City of Wood Dale, which signature shall be attested to by the City Clerk.

**SECTION 3:** The City Manager, staff and/or the City Attorney shall take the steps necessary to put the terms and conditions of this Resolution into effect.

**SECTION 4:** That all ordinances and resolutions, or parts thereof in conflict with the provisions of this Resolution are, to the extent of such conflict, hereby repealed.

**SECTION 5:** That this Resolution shall be in full force and effect from and after its adoption, approval and publication in pamphlet form as provided by law.

PASSED this **5<sup>th</sup> day of November, 2020.**

AYES: \_\_\_\_\_

NAYS: \_\_\_\_\_

ABSENT: \_\_\_\_\_

APPROVED this **5<sup>th</sup> day of November, 2020.**

SIGNED: \_\_\_\_\_  
Annunziato Pulice, Mayor

ATTEST: \_\_\_\_\_  
Lynn Curiale, City Clerk

**Engineering Design and Development Standards Manual**



CITY OF  
WOOD DALE

THE CITY OF WOOD DALE  
COUNTY OF DUPAGE  
STATE OF ILLINOIS

Distributed by:  
CITY OF WOOD DALE  
DEPARTMENT OF PUBLIC WORKS  
720 N. Central Avenue  
Wood Dale, Illinois 60191  
(630) 350-3530

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# 1

## **Written Standards**

*Bid documents  
Standard Specifications  
Standard General Notes*

# BID DOCUMENTS

**RETURN WITH BID**

Submitted By: \_\_\_\_\_

Company Name: \_\_\_\_\_

Contact Person: \_\_\_\_\_

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

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

Telephone: \_\_\_\_\_

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



**CITY OF WOOD DALE  
DUPAGE COUNTY, ILLINOIS**

**NOTICE TO CONTRACTORS  
CONTRACT DOCUMENTS  
SPECIFICATIONS**

**FOR**

**PROJECT NAME  
DATE**

Annunziato Pulice, Mayor

Lynn Curiale, City Clerk

Prepared By:

City of Wood Dale, Public Works  
404 N. Wood Dale Road  
Wood Dale, Illinois 60191



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**CITY OF WOOD DALE**  
**PROJECT NAME**

**NOTICE TO BIDDERS**

Sealed bids for the “**PROJECT NAME**” will be received in the office of the City Clerk, City of Wood Dale, IL 60191 until **BID TIME** on the **BID DATE**, at which time all bids will be publicly opened and read. All bids must be submitted in a sealed envelope marked in the lower left hand corner “SEALED BID, DO NOT OPEN; PROPOSAL OF [NAME OF BIDDER] FOR THE CITY OF WOOD DALE [**PROJECT NAME**].” Specifications may be obtained at the Clerk’s office or by mail/email upon request. This is a prevailing wage project.

**IF MANDATORY PRE-BID MEETING IS HELD INCLUDE THIS PARAGRAPH.**

**A mandatory pre-bid meeting will be held for all prospective bidders on PRE-BID MEETING DATE at PRE-BID MEETING TIME at PRE-BID MEETING LOCATION. All contractors planning on submitting bids for this project must attend the meeting. The City reserves the right to deny bid documents to any contractor they believe does not possess the necessary qualifications to complete the work.**

Please contact **CONTACT NAME, CONTACT TITLE**, by phone at **CONTACT PHONE**, or by email at **CONTACT EMAIL** with any questions regarding the bid.

All proposals must be accompanied by a bid guarantee consisting of a bid bond, a cashier's check, or certified check in the amount of not less than ten percent (10%) of the amount of the bid.

Failure of the U.S. Post Office or any other messenger service to deliver the bid on time will not be the responsibility of the City of Wood Dale. The bidders accept full responsibility for timely delivery of their bids. The City of Wood Dale is not liable for any costs incurred in submitting a bid.

The City Council reserves the right to reject any or all bids and to waive any technicalities. The City of Wood Dale also reserves the right to delay the bid opening for a reasonable time and/or to make changes to the project’s specifications by means of bid addendum which will be mailed to all interested parties that have obtained bid documents.

Lynn Curiale  
City Clerk

Dated this **ADVERTISE DATE**.

**CITY OF WOOD DALE**  
**PROJECT NAME**

**DEFINITIONS**

1. Owner - The officials, employees, and agents of the City of Wood Dale, Illinois.
2. Director - The City of Wood Dale's Director of Public Works or designee.
3. City - The geographic area of the City of Wood Dale, Illinois.
4. Contract - The agreement created by and consisting of the Contract Documents.
5. Contract Documents - The following documents including the Notice to Bidders, Definitions, General Terms and Conditions and Instructions to Bidders, Special Instructions, Proposal, Specifications, Special Provisions, Disclosure of Beneficiaries, Certifications, and attachments, together with all addenda issued prior to the award of the Contract supplementing or modifying any of those documents.
6. Contractor or General Contractor - The party contracting for the work.
7. Days - Unless otherwise stated, days as used herein will be understood to mean calendar days.
8. Completion Date - Date on which the work as described herein is to be completed, as set forth in the Contract.
9. Final Acceptance - The work shall be deemed to have been finally accepted after it has been determined that the Contractor has complied with the Specifications and other Contract Documents.
10. Notice of Award – Verbal or written communication by the Director of Public Works or designee informing the Contractor of the Council’s decision to accept their proposal.
11. Notice to Proceed – Verbal or written communication by the Director of Public Works or designee authorizing the contractor to commence construction activities on a specified date.
12. Specifications - Specifications identified in the Contract.
13. Subcontractor - Secondary Contractor engaged by the Contractor.
14. Supplier - Any vendor supplying materials, equipment, or apparatus.

**CITY OF WOOD DALE**  
**PROJECT NAME**

**GENERAL TERMS AND CONDITIONS AND INSTRUCTIONS TO BIDDERS**

THE GENERAL RULES AND CONDITIONS THAT FOLLOW APPLY TO EACH FORMAL INVITATION TO BID ISSUED BY THE CITY OF WOOD DALE, UNLESS OTHERWISE SPECIFIED. BIDDERS OR THEIR AUTHORIZED REPRESENTATIVES ARE EXPECTED TO FULLY INFORM THEMSELVES OF THE TERMS, CONDITIONS, REQUIREMENTS AND SPECIFICATIONS BEFORE SUBMITTING BIDS. FAILURE TO DO SO WILL BE AT THE BIDDER'S OWN RISK AND NO RELIEF WILL BE GRANTED OR SECURED ON A PLEA OF ERROR.

INSTRUCTIONS TO BIDDERS

1. PROPOSAL FORMS HAVE BEEN FURNISHED: Proposals shall be submitted on the forms provided, properly signed in the appropriate place and submitted in a sealed envelope.
2. LATE BIDS: Bids will opened precisely at the assigned time. Bids received after the assigned time will be rejected and returned unopened to the sender. Formal bids, amendments thereto, or requests for withdrawal of bids after the time specified for the bid opening will not be considered.
3. WITHDRAWAL OF BIDS: A written request for the withdrawal of a bid will be granted if the request is received by the City prior to the specified time of opening.
4. SUBMISSION OF BIDS: All bids are to be placed in a sealed, opaque envelope addressed to the City Clerk, City of Wood Dale, Illinois, clearly marked "**SEALED BID, DO NOT OPEN. PROPOSAL OF (NAME OF BIDDER) FOR CITY OF WOOD DALE PROJECT NAME.**"
5. SIGNATURES: All signatures shall be in handwriting, and no proposal shall be considered unless properly signed by the bidder or its legally authorized agent or representative, with addresses given in the correct spaces provided in the Proposal and in accordance with the directions set forth.
6. ERRORS IN BIDS: When an error is made in extending total prices, the unit bid price will govern. Erasures, etc., must be initialed by the bidder prior to submission of the bid.
7. TIME FOR RECEIVING BIDS: Bids received prior to the time of opening will be kept secure and unopened. No responsibility will attach to the City Clerk or his or her representative for the premature opening of a bid not properly addressed or identified. The City Clerk or her representative, whose duty it is to open the bids, will decide when the specified time for opening has arrived, and no bid received after that time will be considered.

8. BIDDERS PRESENT: At the time assigned for the opening of formal bids, the bids will be opened and read aloud. Bidders are encouraged to attend all openings and to offer constructive suggestions for improvements to bid format or any way in which greater savings can be realized.
9. NO BID RESPONSE: In the event you cannot submit a bid on the Owner's requirements, please return the Proposal with an explanation as to why you are unable to bid and mark it "NO BID."
10. BIDDER INTERESTED IN MORE THAN ONE BID: Only one bid can be offered by any one bidder. A party who has quoted prices for work, materials, or supplies to a bidder is not thereby disqualified from quoting prices to other bidders or from submitting a bid directly for the work, materials, or supplies.

Unless the proposal form states that an alternate proposal is permissible, each vendor may submit only ONE proposal. If an alternate is included in the bid and it was not requested by the Owner, the first proposal seen by the Owner will be read, and the other will not be considered.

11. CERTIFICATIONS AND DISCLOSURE OF BENEFICIARIES: The Bidder is required to complete the forms listed above and return with the Bid Proposal. Failure to complete and return these forms may be considered sufficient reason for rejection of the bid.
12. BID DEPOSIT: When a bid deposit (bid guarantee) is required as indicated in the Invitation to Bid, each bid must be accompanied by a bid bond signed by a surety company authorized to do business in the State of Illinois, or by a cashier's check or certified check in an amount equal to ten percent (10%) of the total bid price or the specific amount indicated in the Invitation to Bid.
13. RETURN OF CHECKS: The bid deposit of all except the three (3) lowest responsible, responsive bidders on each contract will be returned within fifteen (15) days after the opening of bids. The remaining bid deposits of each contract will be returned within fifteen (15) days after the City Council has awarded the contract and the required appurtenances to the contract have been received.
14. ACCEPTANCE OF PROPOSALS: The owner will accept, in writing, one of the proposals within sixty (60) days from the date of opening of bids, or the time specified within the specifications, unless the lowest responsible, responsive bidder extends the time of acceptance to the Owner.
15. TAX EXEMPTION: The City of Wood Dale is exempt from Illinois Retailers Occupational Tax (Sec. IROETA); the Illinois use tax (Sec. 3, IUTA), and the federal excise tax as an exempt entity (Sec. 4222, IRC). The City's Tax Exemption Identification Number is E9997-4282-03.
16. PREVAILING WAGE: Under Public Works contracts, the State of Illinois requires that the general prevailing rate of wages in this locality be paid for each craft or type of work hereunder. This shall include payment of the general prevailing rate for legal holiday and overtime work. It shall be mandatory upon the subcontractor under the Contractor. If wage rates change during the

course of the project, the new rate information will be available at <http://labor.illinois.gov/>. This requirement is in accordance with Public Act 86-799.

17. CHANGE ORDER AUTHORIZATIONS: All Change Orders which authorize a net increase or decrease in the cost of the contract by \$10,000 or more or in the time of completion by 30 days or more require a written determination supporting the change, executed first by the Contractor, then by the City Council.

All Change Orders which authorize a net increase or decrease in the cost of the contract by less than \$10,000, or in the time of completion by less than 30 days, require a written determination supporting the change, executed first by the Contractor, then by the City Manager.

Requests for Change Orders must state that the circumstances said to necessitate the change were not reasonably foreseeable at the time the contract was signed and were not within the contemplation of the contract as signed.

18. EQUAL EMPLOYMENT OPPORTUNITY: In the event of the contractor's noncompliance with any provision of the Equal Employment Opportunity Act, the Americans with Disabilities Act (ADA), the Illinois Fair Employment Practices Act, or the Fair Employment Practices Commission's Rules and Regulations for Public Contracts, the contractor may be declared non-responsible and therefore ineligible for future contracts or subcontracts with the State of Illinois or any of its political subdivisions or municipal corporations, and the contract may be canceled or avoided, in whole or in part, and such other sanctions or penalties may be imposed or remedies involved as provided by statute or regulation.

19. AWARD OR REJECTION OF BIDS: The contract will be awarded to the lowest responsible, responsive bidder or any other bidder determined by the Owner to be in the best interest of the City of Wood Dale complying with all the provisions of the invitation, provided the bid price is reasonable and it is in the interest of the City to accept it. No proposal will be accepted from or contract awarded to any person, firm, or corporation that is in arrears or is in default to the City of Wood Dale upon any debt or contract, or that is a defaulter, as surety or otherwise, upon any obligation to said City of Wood Dale, or had failed to perform faithfully any previous contract with the City of Wood Dale. The Owner reserves the right to reject any or all bids and to waive any informality in bids received whenever such rejection or waiver is in the interests of the City.

In determining responsibility, the following qualifications, in addition to price, will be considered by the Owner:

- A. The ability, capacity and skill of the bidder to perform the service required within the specified time;
- B. The character, integrity, reputation, judgment, experience, and efficiency of the bidder;

- C. The quality of performance of previous contracts or services with the City of Wood Dale or other clients;
  - D. The previous and existing compliance by the bidder with laws and ordinances relating to previous contracts with the City of Wood Dale, the bidder's employment practices and compliance with ADA requirements;
  - E. The sufficiency of the financial resources and ability of the bidder to perform the contract or provide the service;
  - F. The quality, availability, and adaptability of the supplies or contractual services to the particular use required;
  - G. The ability of the bidder to provide future maintenance and service for the use of the subject of the contract;
  - H. The number and scope of conditions attached to the bid; and
  - I. Such other information as may be secured by the Owner having a bearing on the decision to make the award.
20. ESTIMATED BID QUANTITIES: On "Estimated Bid Quantities," acceptance will bind the Owner to pay for, at unit bid prices, only quantities ordered and delivered. Any reference to forecasted or estimated quantities within the bidding documents is intended to inform the bidder of approximate annual requirements. The Owner may purchase as little as zero (0) percent or as much as one hundred fifty (150) percent of the forecasted or estimated quantities.
21. CONTRACTOR PAYMENTS: Contractor will be paid from funds allocated to the project. Payments will be made according to the Local Government Prompt Payment Act (50 ILCS 505).
22. GENERAL GUARANTY: Contractor agrees to hold the City of Wood Dale, its agents, and employees harmless from liability of any nature or kind for the use of any copyrighted or uncopyrighted composition, secret process, patented or unpatented invention, article, or appliance furnished or used in the performance of the contract of which the Contractor is not the patentee, assignee, licensee, or owner.

Contractor agrees to protect the City of Wood Dale against latent defective material or workmanship and to repair or replace any damages or marring occurring in transit or delivery.

Contractor agrees to pay for all permits, licenses, and fees; and give all notices and comply with all laws, ordinances, and rules of the City of Wood Dale and State of Illinois.

23. ASSIGNMENT: Assignment of this contract or any part thereof, or any funds to be received thereunder by the contractor shall be subject to written approval of the Owner.
24. DEFAULT: The contract may be canceled or annulled by the Owner in whole or in part by written notice of default to the Contractor upon nonperformance or violation of contract terms. An award made to the next low Bidder or materials/services specified may be procured on the open market similar to those so terminated. In either event, the defaulting Contractor (or his surety) shall be liable to the City of Wood Dale for costs to the City in excess of the defaulted contract prices provided, that the Contractor shall continue the performance of this contract to the extent not terminated under the provisions of this clause. Failure of the contractor to deliver materials or services within the time stipulated in the bid, unless extended in writing by the Owner, shall constitute contract default.
25. INSURANCE: The Contractor shall procure, and maintain for the duration of the contract, insurance against claims for injuries to persons or damages to property which may arise from or in connection with the performance of the work hereunder by the Contractor, his agents, representatives, employees, or subcontractors.

A. Minimum Scope of Insurance

Policy shall include the following coverage types:

1. Commercial General Liability Occurrence form with the City of Wood Dale named as additional insured;
2. Owners and Contractors Protective Liability (OCP) policy with the City of Wood Dale named as additional insured (if applicable);
3. Business Auto Liability Coverage;
4. Worker's Compensation as required by the Worker's Compensation Act of the State of Illinois and Employer's Liability insurance;
5. Builder Risk Property Coverage with City of Wood Dale as loss payee (if applicable); and
6. Environmental Impairment/Pollution Liability Coverage for pollution incidents as a result of a claim for bodily injury, property damage or remediation costs from an incident at, on or migrating beyond the contracted work site. Coverage shall be extended to Non-Owned Disposal sites resulting from a pollution incident at, on or mitigating beyond the site; and also provide coverage for incidents occurring during transportation of pollutants (if applicable).

B. Minimum Limits of Insurance: See attachment "A"



26. QUESTIONS OF THE BIDDER DIRECTED TO THE CITY REGARDING SPECIFICATIONS: If the question pertains to information which is provided in the specifications or the bidder is requesting a clarification of a point which is answerable within the context of the specification, the Director of Public Works, or designee, may refer the bidder to the location within the specification providing the information which will readily answer the contractor's question.

If the question is a request to deviate from the terms and conditions of the specification or if the bidder needs clarification that is not apparent in the specification such as an interpretation of the drawings, specifications, or the bid documents, the bidder must make such an inquiry in writing to Alan Lange, Director of Public Works, City of Wood Dale, 404 N. Wood Dale Road, Wood Dale, IL 60191. Phone Number: (630)787-3761. The Director of Public Works will then respond in writing in the form of an addendum to the specifications to all those who receive bid packages. Only inquiries received a minimum of seven (7) working days prior to the date set for the opening of bids will be given any consideration. Oral answers will not be binding on the City of Wood Dale.

27. SPECIAL CONDITIONS: Whenever special conditions are written into the Specifications, Special Provisions, or Special Instructions which conflict with conditions stated in these General Terms and Conditions and Instructions to Bidders, the conditions stated in the Specifications, Special Provisions, or Special Instructions shall take precedence.

**ATTACHMENT "A"**  
**INSURANCE REQUIREMENTS**

<u>Type of Insurance</u>	<u>Limits of Liability</u>
General Liability:	Property Damage:
Comprehensive Form	\$1,000,000 each occurrence
Premises – Operations	
Products/Completed Operations	
Hazard	
Contractual Insurance	
Broad Form Property Damage	Bodily Injury:
Independent Contractors	\$1,000,000 aggregate
Personal Injury	
Explosion and Collapse Hazard	
Underground Hazard	
 Automobile Liability:	 Bodily Injury and Property
Comprehensive Form	Damage Combined:
Owned	\$1,000,000 each occurrence
Hired	
Non-owned	
 Excess Liability:	 Bodily Injury and Property
Umbrella Form	Damage Combined:
	\$2,000,000 each occurrence
	\$2,000,000 aggregate
 Worker's Compensation and Employer's Liability:	 \$500,000 each accident

The coverage afforded the additional insureds shall be primary insurance for the additional insureds with respect to claims or suits arising out of operations performed by or on behalf of the Contractor.

If the additional insureds have other insurance which is applicable to the loss, such other insurance shall be on an excess or contingent basis. The amount of the company's liability under the insurance policy shall not be reduced by the existence of such other insurance.

A. Workers' Compensation and Employers' Liability Coverages

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

B. All Coverages

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

C. Verification of Coverage

Contractor shall furnish the City with certificates of insurance naming the member, its officials, agents, employees and volunteers as additional insureds, and with original endorsements affecting coverage required by this clause. The certificates and endorsements for each insurance policy are to be signed by a person authorized by that insurer to bind coverage on its behalf. The certificates and endorsements may be on the forms provided by the City and are to be received and approved by the City before any work commences.

D. Assumption of Liability

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

E. Regulatory Requirements

Contractor bidder must comply with all applicable laws, regulations, and rules promulgated by any Federal, State, County, Municipal and/or other governmental unit or regulatory body now in effect or which may be in effect during the performance of the work. Included within the scope of the laws, regulations, and rules referred to in this paragraph but in no way to operate as a limitation, are Occupational Safety and Health Act (OSHA), Illinois Department of Labor (IDOL), Department of Transportation, all forms of traffic regulations, public utility, Intrastate and Interstate Laws, the Social Security Act of the Federal Government and any of its titles, the Illinois Department of Human Rights, Human Rights Commission, or EEOC statutory provisions and rules and regulations.

F. Contractor's Drug-Free Workplace Certification

Pursuant to Chapter 30, Section 580/1 of the Illinois compiled Statutes (30 ILCS 580/1) "Drug Free Workplace Act", the Contractor must certify to the contracting agency that it will provide a drug free workplace that will be included in the bid packet.

G. Sexual Harassment Policy Certification

The contractor, pursuant to Illinois compiled statutes 775 ILCS 5/2-105 (A) (4), must be in full compliance and have a written sexual harassment policy in place and provide a copy of such written policy to the Illinois Department of Human Rights upon request.

#### H. Indemnity/Hold Harmless

The Contractor hereby agrees to indemnify and defend the City of Wood Dale, its officers, agents, and employees and each of them, against and hold it and them harmless from any and all lawsuits, claims, demands, liabilities, losses and expenses, including court costs and attorneys' fees, for or on account of any injury to any person, or any death at any time resulting from such injury, or any damage to any property, which may arise (or which may be alleged to have arisen) out of or in connection with the work covered by the Agreement. The foregoing indemnity (together with Contractor's obligation to defend) shall apply unless it shall be found by a court of competent jurisdiction that such injury, death, or damage shall have been caused solely by the negligence of the City of Wood Dale, its officers and employees, or any of them. The City of Wood Dale shall be entitled to withhold from any payment otherwise due pursuant to the Agreement such amount or amounts as may be reasonably necessary to protect it against liability from any personal injury, death, or property damage resulting from the performance of the work hereunder.

**CITY OF WOOD DALE**  
**PROJECT NAME**

**-SPECIAL INSTRUCTIONS-**

1. Return With Bid:
  - a) Cover Sheet;
  - b) Signed Proposal, including location of Bidder's office or permanent place of business;
  - c) Bid guarantee consisting of a bid bond, a cashier's check, or certified check in an amount not less than ten percent (10%) of the amount of the bid;
  - d) Completed Disclosure of Beneficiaries Form;
  - e) Signed Certification Forms; and
  - f) Completed References Form listing similar projects.

# RETURN WITH BID

**CITY OF WOOD DALE**

**PROJECT NAME**

**PROPOSAL**

Honorable Mayor and City Council  
City of Wood Dale  
404 N. Wood Dale Road  
Wood Dale, IL 60191

Ladies and Gentlemen:

The undersigned does hereby state he has examined the Notice to Bidders, Instructions to Bidders, Special Instructions, General Requirements, Proposal, Sample Contract, Technical Specifications, Certifications, and all other documents, and all work shall be done in accordance with the documents contained herein.

The undersigned does hereby propose to furnish all labor, services, materials, supplies, equipment, apparatus, appliances and to do all work and pay all costs and expenses connected therein required to complete this order in accordance with the documents named in the foregoing paragraph, on the basis of the quantities of work and services actually performed and for the unit prices stated herein below.

Name of Company: \_\_\_\_\_

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

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

Signed: \_\_\_\_\_ Date: \_\_\_\_\_

Title: \_\_\_\_\_

**\*\*Continued on next page\*\***

# RETURN WITH BID

## BID SHEET

The undersigned, having become familiar with the specifications and with local conditions affecting the cost of the work, hereby proposes and agrees, if this bid is accepted, to enter into an agreement with the City in the form included in the contract documents for the contract sum and within the contract time indicated in this bid and in accordance with other terms and conditions of the contract documents, and in so doing, to provide and furnish all the labor, equipment, materials, supplies, hardware, necessary tools, expendable equipment and supplies, and all utility and transportation services necessary to perform and complete, in a first-class manner, the entire work in conjunction with the **PROJECT NAME**.

In accordance with the complete specifications, the following amount constitutes as a total sum of the bid:

### **PROJECT NAME**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>ESTIMATED QUANTITY</b>	<b>UNIT</b>	<b>UNIT PRICE</b>	<b>AMOUNT</b>
1					
2					
3					
4					
5					
6					
7					
8					
<b>TOTAL:</b>				<b>\$</b>	

## RETURN WITH BID

Accompanying this Proposal is a proposal guarantee in the amount of \$\_\_\_\_\_ (10%) which is hereby tendered in accordance with the requirement of the Instructions to Bidders and the Specifications and/or Special Provisions. If this proposal is accepted and the undersigned fails to execute a contract as required herein, it is hereby agreed that the proposal guarantee shall become the property of the City of Wood Dale, and shall be considered as payment of damages due to delay and other consequences suffered by the City of Wood Dale due to the failure to execute said contract.

The undersigned acknowledges receipt of addenda as follows:

Addendum, No. \_\_\_\_\_, dated \_\_\_\_\_

No. \_\_\_\_\_, dated \_\_\_\_\_

No. \_\_\_\_\_, dated \_\_\_\_\_

This bid is an offer which shall be considered accepted only after the Corporate Authorities authorize the execution of the contract. In the event that this proposal is accepted and an award of contract is made to the undersigned bidder, the undersigned does hereby covenant and agree to deliver to the Owner the signed and executed Contract as specified in the Instructions to Bidders and Specifications within ten (10) days after the date of such acceptance and notification thereof.

The proposal shall be binding for sixty (60) days following the bid opening date unless the bidder, upon request of the City of Wood Dale, agrees to an extension.

THIS BID, WHEN ACCEPTED AND SIGNED BY AN AUTHORIZED SIGNATORY OF THE CITY, SHALL BECOME A CONTRACT BINDING UPON BOTH THE PERSON, PARTNERSHIP, OR CORPORATION TO SUPPLY OR PERFORM AS SPECIFIED AND UPON THE CITY TO ACCEPT THE PRODUCT OR SERVICE.



## RETURN WITH BID

The undersigned further agrees to begin work within ten (10) working days after the executions and acceptance of the Contract, and thereafter to carry on the work diligently and continuously in such manner as to insure final completion and delivery to the Owner of the entire work under contract in accordance with the provisions of the Contract and Detailed Specifications.

Witness \_\_\_\_\_ Hand(s) and Seal this \_\_\_\_\_ day of \_\_\_\_\_, 2020.  
my/our

If an individual, sign  
and give address.

\_\_\_\_\_  
Address \_\_\_\_\_

If partnership, sign all  
individual names and  
give address of each  
partner.

\_\_\_\_\_  
Partnership Name

Name and address of  
individual partners.

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

If corporation, officers duly  
authorized should sign,  
attach corporate seal.

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

ATTEST:

\_\_\_\_\_

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

By: \_\_\_\_\_  
Secretary

-CORPORATE SEAL-

**CITY OF WOOD DALE**

**PROJECT NAME**

**CONTRACT**

This CONTRACT, made and entered into this \_\_\_\_\_ day of \_\_\_\_\_, 2020, by and between the CITY OF WOOD DALE, an Illinois municipal corporation (hereinafter “**City**”), and \_\_\_\_\_, an Illinois corporation (hereinafter “**Contractor**”);

**RECITALS**

WHEREAS, the City desires to engage the Contractor to provide (hereinafter “**Work**”), located within the corporate limits of the City of Wood Dale; and

WHEREAS, the Contractor represents itself to be in compliance with Illinois Statutes relating to all matters affecting its status as a corporation operating as a general contractor within the State of Illinois and to have the necessary expertise and experience to furnish such services for the Work upon the terms and conditions set forth herein below:

NOW, THEREFORE, in consideration of the mutual promises herein contained, it is hereby agreed by and between the City and the Contractor that:

**I. SCOPE OF SERVICES**

The Scope of Services shall be as set forth in the “Notice to Bidders”, “Instructions to Bidders”, “Special Instructions”, “Technical Specifications”, “General Requirements”, “Specifications”, and “Special Provisions” prepared by the City. Should there be a conflict in terms between this Contract and the other documents, which are a component part hereof, this Document shall control.

**II. PERFORMANCE OF WORK**

The Contractor shall perform all work, furnishing all materials and labor, and shall abide by the terms of this Contract and the requirements of the City. Contractor must complete, in its entirety, the project within [specify contract length], weather permitting, from the date the City provides Contractor with notice to proceed.

**III. SITE ABANDONMENT**

The Contractor shall prioritize this Project in accordance with the timeliness set forth in the Bid Specifications and the Contract. In no event shall the Contractor cease to perform work on this Project for a period of more than five (5) consecutive business days.

In the event that circumstances arise which require or warrant the Contractor ceasing work on

the Project for a period in excess of five (5) business days, the Contractor shall provide Notice to the City, with Notice to the Public Works Director and the Project Engineer. Said Notice shall provide the basis for the Contractor being unable to perform work on the Project for said period of time.

In the event that the basis for the delay is not acceptable to the City, the City shall so notify the Contractor immediately. In such case, the Contractor shall arrange to return to the Project immediately following any five (5) day absence.

Nothing herein is intended to or shall alter the Substantial Completion or Final Completion requirements set forth in the Contract. In addition, nothing herein is intended to or shall alter the Liquidated Damages provisions of the Contract.

#### IV. PAYMENT TO THE CONTRACTOR

For the Work, the Contractor shall be paid in accordance with the Proposal. The City shall make payments to the Contractor within 30 days after completion of the Work and upon receipt of an invoice in a format approved by the City.

This contract calls for the construction of a “public work,” within the meaning of the Illinois Prevailing Wage Act, 820 ILCS 130/.01 et seq. (“the Act”). The Act requires contractors and subcontractors to pay laborers, workers and mechanics performing services on public works projects no less than the current “prevailing rate of wages” (hourly cash wages plus amount for fringe benefits) in the county where the work is performed. The Department publishes the prevailing wage rates on its website at <http://labor.illinois.gov/>. The Department revises the prevailing wage rates and the contractor/subcontractor has an obligation to check the Department’s web site for revisions to prevailing wage rates. For information regarding current prevailing wage rates, please refer to the Illinois Department of Labor’s website. All contractors and subcontractors rendering services under this contract must comply with all requirements of the Act, including but not limited to, all wage requirements and notice and record keeping duties.

#### V. NO CO-PARTNERSHIP OR AGENCY

It is understood that nothing herein contained is intended or shall be construed to, in any respect, create or establish the relationship of co-partners between the City and the Contractor, or as constituting the Contractor as the general representative or general agent for the City for any purpose whatsoever.

#### VI. CONTRACT DOCUMENTS

It is further understood that this Contract consists of the following documents which are hereby made a part hereof: the Notice to Bidders, Instructions to Bidders, Specifications, Special Instructions, Special Provisions, Proposal, Performance Bond, Maintenance Bond, Anti-Collusion Affidavit of Compliance, Americans with Disabilities Act of 1990 Certificate,

Policy Against Sexual Harassment Certificate, Hold Harmless Agreement, Anti-bid Rigging Certificate, and Drug-free Workplace Certificate.

VII. MATERIALS AND LABOR/WORKMANSHIP WARRANTY

Upon completion of the Work, and satisfactory acceptance by the City, the Contractor will provide a written one (1) year warranty covering both parts and labor/workmanship. Warranty shall include, but is not limited by this provision, that any defective material(s) and/or defective installation or workmanship will be repaired and/or replaced by Contractor at no cost to the City. The City's preferred warranty template is attached to this document.

VIII. SEVERABILITY

The parties intend and agree that, if any paragraph, subparagraph, phrase, clause, or other provision of this Contract, or any portion thereof, shall be held to be void or otherwise unenforceable, all other portions of this Contract shall remain in full force and effect.

IX. HEADINGS

The headings of the several paragraphs of this Contract are inserted only as a matter of convenience and for reference and in no way are they intended to define, limit, or describe the scope or intent of any provision of this Contract, nor shall they be construed to affect in any manner the terms and provisions hereof or the interpretation or construction thereof.

X. MODIFICATION OR AMENDMENT

This Contract constitutes the entire contract of the parties on the subject matter hereof and may not be changed, modified, discharged, or extended except by written amendment duly executed by the parties. Each party agrees that no representations or warranties shall be binding upon the other party unless expressed in writing herein or in a duly executed amendment hereof, or Change Order as herein provided.

XX. APPLICABLE LAW

This Contract shall be deemed to have been made in, and shall be construed in accordance with the laws of the 18<sup>th</sup> Judicial Circuit Court of DuPage County, State of Illinois.

XXI. NEWS RELEASES

The Contractor may not issue any news releases without prior approval from the City Manager nor will the Contractor make public proposals developed under this Contract without prior written approval from the City Manager prior to said documentation becoming a matter of public record.

XXII. COOPERATION WITH OTHER CONTRACTORS

The Contractor shall cooperate with any other Contractors in the City’s employ or any matter associated with the Work.

XXIII. NOTICES

All notices, reports and documents required under this Contract shall be in writing and shall be mailed by first class mail, postage prepaid, addressed as follows:

If to City:

Jeffrey Mermuys  
City Manager  
404 N. Wood Dale Road  
Wood Dale, Illinois 60191

With a copy to:

Lynn Curiale  
City Clerk  
404 N. Wood Dale Road  
Wood Dale, Illinois 60191

If to Contractor:

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

IN WITNESS WHEREOF, the undersigned have placed their hands and seals hereto on the date first above written.

CITY OF WOOD DALE:

ATTEST:

\_\_\_\_\_  
Annunziato Pulice, Mayor

\_\_\_\_\_  
Lynn Curiale, City Clerk

CONTRACTOR:

ATTEST:

By \_\_\_\_\_

By \_\_\_\_\_

Its \_\_\_\_\_

# RETURN WITH BID

## CITY OF WOOD DALE PROJECT NAME

### -DISCLOSURE OF BENEFICIARIES-

In compliance with City of Wood Dale Purchasing Procedures requiring the disclosure of certain interests by persons applying for permits, licenses, approval, or benefits from the City of Wood Dale:

1. Applicant: \_\_\_\_\_  
Name

\_\_\_\_\_  
Address

2. Nature of Transaction Sought; for example, license permit approval or sale of products, services. or miscellaneous (explain miscellaneous):

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

3. Nature of Applicant: (Please check one)

- a. Natural Person: \_\_\_\_\_
- b. Corporation: \_\_\_\_\_
- c. Land Trust/Trustee: \_\_\_\_\_
- d. Trust/Trustee: \_\_\_\_\_
- e. Partnership: \_\_\_\_\_
- f. Joint Venture: \_\_\_\_\_

4. If applicant is an entity other than described in Section 3, briefly state the nature and characteristics of the applicant:

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

5. If in your answer to Section 3 you have checked Box b, c, d, or e, identify by name and address each person or entity who is a 7.5 percent shareholder in the case of a corporation, a beneficiary in the case of a trust or land trust, a joint venturer in the case of a joint venture, or who otherwise has a proprietary interest, interest-in profits and losses, or right to control such entity.

Name	Address	Interest
------	---------	----------

- a. \_\_\_\_\_
- b. \_\_\_\_\_
- c. \_\_\_\_\_

6. Name, address, and capacity of person making this disclosure on behalf of the applicant:

\_\_\_\_\_

IMPORTANT NOTE: In the event your answer to Section 5 identifies entities other than a natural person, additional disclosures are required for each such entity.

VERIFICATION

I, \_\_\_\_\_, being first duly sworn under oath, depose and state that I am the person making this disclosure on behalf of the applicant, that I am duly authorized to make this disclosure, that I have read the above and foregoing Disclosure of Beneficiaries, and that the statements contained therein are true in both substance and fact.

By: \_\_\_\_\_  
(Authorized Signature and Title)

Subscribed and sworn to before me this \_\_\_\_\_ day  
of \_\_\_\_\_, 2020.

\_\_\_\_\_  
Notary Public

# RETURN WITH BID

**CITY OF WOOD DALE**  
**PROJECT NAME**

## **BID CERTIFICATION FORM**

RE: CERTIFICATION OF BIDDER, COMPLIANCE WITH SECTION 33E-11  
OF ILLINOIS CRIMINAL CODE OF 1961

I/we hereby certify that \_\_\_\_\_ is not barred from bidding on this contract as the result of a violation of either Section 33E-3 or 33E-4 of this Article of the Illinois Criminal Code of 1961.

Signed: \_\_\_\_\_  
Date: \_\_\_\_\_  
Title: \_\_\_\_\_

### **INTERFERENCE WITH PUBLIC CONTRACTING -- BID RIGGING AND ROTATING -- KICKBACKS -- BRIBERY**

#### **PUBLIC ACT 85-1295 S.B. 2002**

AN ACT to add Article 33E to the "Criminal Code of 1961", approved July 28, 1961, as amended. Be it enacted by the People of the State of Illinois, represented in the General Assembly:  
Section 1: Article 33E is added to the "Criminal Code of 1961", approved July 28, 1961, as amended, the added Article to read as follows:

#### **ARTICLE 33E. PUBLIC CONTRACTS**

Sec. 33E-3 Bid-rigging. A person commits the offense of bid-rigging when he knowingly agrees with any person who is, or but for such agreement would be, a competitor of such person concerning any bid submitted or not submitted by such person or another to a unit of State or local government when with the intent that the bid submitted or not submitted will result in the award of a contract to such person or another and he either (1) Provides such person or receives, from another, information be disclosed to a competitor in an independent, noncollusive submission of bids or (2) Submits a bid that is off such a price, or other material terms, that he does not intend the bid to be accepted.

Bid-rigging is a Class 3 felony. Any person convicted of this offense shall be barred for 5 years from the date of conviction from bidding on any contract offered for bid by any unit of State or local government.

Sec 33E-4. Bid rotating. A person commits the offense of bid rotating when pursuant to any



collusive scheme or agreement with another. He engages in a patter over time (which, for the purposes of this Section, shall include at least 3 contract bids within a period of 10 years, the most recent of which occurs after the effective date of this amendatory Act of 1988) of submitting sealed bids to units of State or local government with the intent that the award of such bids rotates, or is distributed among persons or business entities which submit bids on a substantial number of the same contracts. Bid rotating is a Class 2 felony. Any person convicted of this offense shall be permanently barred from bidding on public contracts in the State of Illinois.

Bidder hereby certifies:

- A. That this bid is genuine and it not made in the interest of or on behalf of any undisclosed person, firm or corporation and is not submitted in conformity with any agreement or rules of any group, association, organization or corporation.
- B. That he has not directly or indirectly induced or solicited any other bidder to put in a false or sham bid.
- C. That he has not solicited or induced any person, firm, or corporation to refrain from bidding.
- D. That he has not sought by collusion or otherwise to obtain for himself any advantage over any other bidder or over the Owner.
- E. That he is not barred from bidding for this Contract as a result of a violation of Section 33E-3 or Section 33E-4 of the Illinois Criminal Code of 1961 (Ill. Rev Stat. ch. 38, Paragraph 33E-1 et seq.).

SUBMITTED: \_\_\_\_\_ DATE: \_\_\_\_\_

FIRM NAME: \_\_\_\_\_ (SEAL)

ADDRESS: \_\_\_\_\_

SIGNED BY: \_\_\_\_\_

(Signature and Date)

\_\_\_\_\_  
(Title)

ATTEST: \_\_\_\_\_

(Secretary)

Subscribed and sworn to before me this \_\_\_\_\_ day of \_\_\_\_\_ 2020.

(Notary Public)

**RETURN WITH BID**

**CITY OF WOOD DALE**

**PROJECT NAME**

**CERTIFICATION**

\_\_\_\_\_ (hereinafter referred to as “Contractor”)  
having submitted a bid/proposal for \_\_\_\_\_ to the City of Wood Dale,  
DuPage County, Illinois, for \_\_\_\_\_, hereby certifies  
that:

5/2-105(A) (4) including the following information:

1. An acknowledgement of the illegality of sexual harassment.
2. The definition of sexual harassment under State law.
3. A description of sexual harassment, utilizing examples.
4. The contractor’s internal complaint process, including penalties.
5. The legal recourse, investigative and complaint process available through the Illinois Department of Human Rights and the Human Rights Commission.
6. Directions on how to contact the Department of the Commission.
7. An acknowledgement of protection of a complainant against retaliation as provided in Section 6-101 of the Human Rights Act.

Each contractor must provide a copy of such written policy to the Illinois Department of Human Rights upon request.

By: \_\_\_\_\_  
Authorized Agent of Contractor

Subscribed and sworn to before me on this \_\_\_\_\_ day of \_\_\_\_\_ 2020.

\_\_\_\_\_  
Notary Public

# RETURN WITH BID

## CITY OF WOOD DALE PROJECT NAME

### CONTRACTOR'S DRUG-FREE WORKPLACE CERTIFICATION

Pursuant to Ill. Rev. Stat. ch. 127 paragraph 132.311 et. seq. ("Drug Free Workplace Act), the undersigned contractor hereby certifies to the contracting agency that it will provide a drug-free workplace by:

- (a) Publishing a statement:
  - (1) Notifying employees that the unlawful manufacture, distribution, dispensation, possession, or use of a controlled substance, including cannabis, is prohibited in the grantee's of contractor's workplace.
  - (2) Specifying the actions that will be taken against employees for violations of such prohibition.
  - (3) Notifying the employee that, as a condition of employment on such contract or grant, the employee will:
    - (A) Abide by the terms of the statement; and
    - (B) Notify the employer of any criminal drug statute conviction for a violation occurring in the workplace no later than five (5) days after such conviction.
- (b) Establishing a drug free awareness program to inform employees about:
  - (1) The dangers of drug abuse in the workplace;
  - (2) The grantee's or contractor's policy of maintaining drug-free workplace;
  - (3) Any available drug counseling, rehabilitation, and employee assistance program; and
  - (4) The penalties that may be imposed upon employees for drug violation.
- (c) Making it a requirement to give a copy of the statement required by subsection (a) to each employee engaged in the performance of the contract or grant and to post the statement in a prominent place in the workplace.
- (d) Notifying the contracting agency within ten (10) days after receiving notice under par (B) of paragraph (3) of subsection (a) from an employee or otherwise receiving actual notice of such conviction.

Dated: \_\_\_\_\_

By: \_\_\_\_\_

Authorized Agent of Contractor

# RETURN WITH BID

## CITY OF WOOD DALE PROJECT NAME

### CERTIFICATION

\_\_\_\_\_, being first duly sworn, deposes and states that he is \_\_\_\_\_ of \_\_\_\_\_ (Partner, Officer, Owner, etc.)

\_\_\_\_\_  
(Corporation / Company)

and that he is cognizant of the following statutory requirements and under penalty of perjury and certifies the following:

Anti-Collusion Affidavit of Compliance: That bid is genuine and not collusive or sham; that said bidder has not colluded, conspired, connived or agreed directly or indirectly with any bidder or person to put in a sham bid or to refrain from bidding; and has not in any manner directly or indirectly sought by agreement or collusion or communication or conference with any person to fix the bid price element of said bid or that of any other bidder; or to secure any advantage against any other bidder or any person interested in the proposed contract.

Public Act 85-1295: That bidder is not barred from bidding on this contract as a result of a violation of either Section 33E-3 or 33E-4 of P.A. 85-1295 (720ILCS 5).

Public Act 86-1039: That bidder is not barred from contracting with the City of Wood Dale because of any delinquency in the payment of any tax administered by the Department of Revenue unless the individual or entity is contesting, in accordance with the procedures established by the appropriate revenue act, liability for the tax, or the amount of the tax (65ILCS 5/11-42.1-1).

Public Act 86-1459: That bidder will provide a drug free workplace in accordance with the Illinois Drug Free Workplace Act (30ILCS 580/2).

Illinois Human Rights Act: That bidder is presently in compliance and agrees to comply with all applicable provisions of the Illinois Human Rights Act, together with all rules and regulations promulgated and adopted pursuant thereto (775ILCS 5/1 -101 et seq.).

Equal Employment Opportunities-Affirmative Action: That bidder is presently in compliance and agrees to comply with all applicable provisions of Equal Employment Opportunities--Affirmative Action (775ILCS 5/2-105 [A]).

Americans with Disabilities Act of 1990: That bidder is presently in compliance and agrees to comply with all applicable provisions of the Americans with Disabilities Act of 1990 together with all rules and regulations promulgated and adopted pursuant thereto.

**INDIVIDUAL:**

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

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

Business Phone Number: \_\_\_\_\_

**PARTNERSHIP:**

Partnership Name: \_\_\_\_\_

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

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

Business Phone Number: \_\_\_\_\_

Insert Names and Addresses of All Partners: \_\_\_\_\_

\_\_\_\_\_

**CORPORATION:**

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

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

Title: \_\_\_\_\_

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

Business Phone Number: \_\_\_\_\_

Insert Names of Corporate Officers

President: \_\_\_\_\_

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

Treasurer: \_\_\_\_\_

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

# RETURN WITH BID

## **CITY OF WOOD DALE** **PROJECT NAME**

### **REFERENCES**

Name of Bidding Firm: \_\_\_\_\_  
(Please print)

The Contractor must list three (3) references with needs similar to the City of Wood Dale for whom Contractor has supplied the materials and services for which he is bidding on this contract within the last three years. Please include name, address, telephone number, contact person, and type of work you performed for that entity.

1. Company Name/Municipality: \_\_\_\_\_

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

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

Contact Person: \_\_\_\_\_

Type of Work: \_\_\_\_\_

2. Company Name/Municipality: \_\_\_\_\_

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

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

Contact Person: \_\_\_\_\_

Type of Work: \_\_\_\_\_

3. Company Name/Municipality: \_\_\_\_\_

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

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

Contact Person: \_\_\_\_\_

Type of Work: \_\_\_\_\_

**CITY OF WOOD DALE**

**PERFORMANCE BOND**

BOND NO. \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS: That the Contractor hereinafter identified and the Surety set forth herein jointly and severally bind themselves, their successors and assigns unto the CITY OF WOOD DALE, (hereinafter referred to as the "CITY"), for the full and complete performance of the Project identified herein.

\_\_\_\_\_ [insert name of Contractor], located at \_\_\_\_\_ [insert address of Contractor], (hereinafter referred to as the "Contractor"), is performing certain work in the CITY in connection with \_\_\_\_\_ [insert Project name] Project No.: \_\_\_\_\_ [insert Project No.] (hereinafter referred to as the "Project"). In order to ensure that the Contractor fully performs all work required as part of the Project referenced herein and as a condition of the CITY's approval of the Project, the Contractor agrees to enter into a Performance Bond with a Surety licensed and authorized to transact business in the State of Illinois.

\_\_\_\_\_ [insert name of Surety], (hereinafter referred to as the "Surety") with its principal Office located at, \_\_\_\_\_ [insert address of Surety], represents that it is a Corporation authorized to perform surety business in the State of Illinois, and hereby agrees to be held and firmly bound unto the CITY, with its Principal Office located at 404 N. Wood Dale Road, Wood Dale, Illinois, 60191, in the sum of \_\_\_\_\_ [insert amount of Contract] (\$) \_\_\_\_\_) lawful money of the United States of America, for which payment is made, binds itself, its heirs, executors, administrators, successors and assigns.

The Surety, on behalf of the Contractor, as Principal, has entered into this Performance Bond with the CITY, guaranteeing that the Contractor will complete the Project, which Project shall be completed in accordance with the Project Specifications, Applications, Permits, Designs, Drawings and the applicable CITY Code provisions and State law on or before the completion date or any extension thereof. The Surety hereby provides the instant Performance Bond to ensure the timely completion of the Project.

If the Contractor fully performs the obligations of the Project, the Surety and Contractor shall have no obligation to the CITY under this Performance Bond.

If the Contractor fails to perform the obligations of the Project as required, said failure shall be deemed a default if the obligations are not remedied by the Contractor within ten (10) days from the date the Contractor is notified of said default by the CITY as provided for herein. In the event of said default, the CITY shall notify the Contractor and the Surety of said default. Notice shall be sent to the Contractor and the Surety by Regular or Certified Mail or electronic mail transmission. Upon receipt of Notice of Default from the CITY, the Surety shall be obligated for the costs to the CITY for completing the Project, including, but not limited to, any and all Contractor costs, Engineering fees and reasonable Attorney's fees incurred in connection with the completion of the Project and enforcing the conditions of the Performance Bond,

along with any Court costs associated therewith.

In the event of a dispute regarding the instant Performance Bond or the underlying Contract documents, the Parties agree to resolve any such dispute in the Eighteenth Judicial Circuit Court of DuPage County, Wheaton, Illinois. The CITY shall be entitled to recover reasonable Attorney's fees and costs incurred in said action

SIGNED, SEALED AND DATED THIS \_\_\_ day of \_\_\_\_\_, 2020.

CITY OF WOOD DALE

By: \_\_\_\_\_  
Its: \_\_\_\_\_

CONTRACTOR

By : \_\_\_\_\_  
Its: President

SURETY

By: \_\_\_\_\_  
Its: Attorney-In-Fact

AGENT OR BROKER

[insert name, address, phone number and e-mail for Agent/Broker]

[NOTE: ATTACH SURETY POWER OF ATTORNEY]



**CITY OF WOOD DALE**

**MAINTENANCE BOND**

BOND NO. \_\_\_\_\_

KNOW ALL MEN BY THESE PRESENTS: That the Owner/Developer, \_\_\_\_\_ [insert name of Owner/Developer] (hereinafter referred to as "PRINCIPAL") and \_\_\_\_\_ [insert name of Surety Company], ( hereinafter referred to as "SURETY") are held and firmly bound unto the CITY OF WOOD DALE, DuPage County, Illinois, (hereinafter referred to as the "CITY"), in the sum of \_\_\_\_\_ dollars (\$ \_\_\_\_\_) which represents \_\_\_\_% of the Project costs identified herein, for the payment of which we bind ourselves, our heirs, executors, successors and assigns, jointly and severally, firmly by these presents.

PRINCIPAL has constructed certain work in connection with \_\_\_\_\_ [insert Project name] Project No.: \_\_\_\_\_ [ insert Project No], (hereinafter referred to as the "Project") including:

- |   |   |
|---|---|
| <input type="checkbox"/> Water System             | <input type="checkbox"/> Street Drainage Inlets and Pipes |
| <input type="checkbox"/> Sewer System             | <input type="checkbox"/> Sewage Lift Station              |
| <input type="checkbox"/> Roadway Paving and Curbs | <input type="checkbox"/> Sewage Force Main                |

In connection with the Project, PRINCIPAL is obligated to protect the CITY against any defects resulting from faulty materials, faulty workmanship or faulty design of the improvements on said Project for a period of one (1) year from \_\_\_\_\_, 20\_\_\_\_.

The condition of this obligation is such that if PRINCIPAL shall promptly and faithfully protect the CITY against any defects resulting from faulty materials, faulty workmanship or faulty design of the aforesaid Project for a period of one (1) year from \_\_\_\_\_, 20\_\_\_\_, then this obligation shall be null and void; otherwise, it shall remain in full force and effect.

The CITY shall notify the PRINCIPAL in writing of any defect for which the PRINCIPAL is responsible in connection with said Project and shall specify in said notice a reasonable period of time within which PRINCIPAL shall have to correct said defect. If the PRINCIPAL shall fail to correct such defect within the time specified in said notice, then the SURETY shall have thirty (30) days thereafter within which to take such action as it deems necessary to ensure performance of the PRINCIPAL'S obligation. If such defect is not corrected after the expiration of such thirty (30) day period, then the CITY shall have the right to correct such defect and the PRINCIPAL and SURETY, jointly and severally, shall pay all costs and expenses incurred by CITY in correcting such defect; including but not limited to, the engineering, legal and other costs, together with any damages either direct or consequential which the CITY may sustain on

account of PRINCIPAL'S failure to correct such defect. In addition, CITY shall have the right to contract for the correction of such defect and the PRINCIPAL and SURETY shall become immediately liable for the amount of the said Contract; and, in the event the CITY commences legal proceedings for the collection thereof of any sums due hereunder, interest shall accrue on said amount at the maximum rate allowed by law, but in no event less than six percent (6%) per annum, beginning at the commencement of said legal proceedings. The CITY, in its discretion, may permit the SURETY to correct such defect in the event of the PRINCIPAL'S failure to perform.

In the event of a dispute regarding the instant Maintenance Bond or the underlying Contract documents, the Parties agree to resolve any such dispute in the Eighteenth Judicial Circuit Court of DuPage County, Wheaton, Illinois. The CITY shall be entitled to recover reasonable Attorney's fees and costs incurred in said action

SIGNED, SEALED AND DATED THIS \_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_.

PRINCIPAL

By : \_\_\_\_\_  
Its: President

SURETY

By: \_\_\_\_\_  
Its: Attorney-In-Fact

AGENT OR BROKER

[insert name, address, phone number and e-mail for Agent/Broker]

[NOTE: ATTACH SURETY POWER OF ATTORNEY]

# STANDARD SPECIFICATIONS

**SECTION 100:  
GENERAL ADMINISTRATION**

Page No.	Description
100-3	<b>101 GENERAL</b>
100-4	<b>102 STANDARD SPECIFICATIONS</b>
100-4	102.1 WOOD DALE STANDARD SPECIFICATIONS
100-4	102.2 OTHER SPECIFICATIONS
100-6	102.3 RESOLUTION OF CONFLICTS
100-6	102.4 USE OF OTHER MATERIALS
100-7	102.5 REVISIONS AND AMENDMENTS
100-7	102.6 DESIGN MANUAL FOR PUBLIC IMPROVEMENTS
100-8	<b>103 DEVELOPER/CONTRACTOR RESPONSIBILITIES</b>
100-8	103.1 PERMITTING
100-8	103.2 BONDING AND LICENSING
100-8	103.3 LIABILITY
100-8	103.4 WARRANTY OF WORK
100-9	<b>104 SURVEYING AND BENCHMARKS</b>
	104.1 CITY BENCHMARKS
100-9	<b>105 GENERAL CONSTRUCTION ACTIVITIES</b>
100-10	105.1 PRE-CONSTRUCTION
100-10	105.2 NOTIFICATION TO CITY
100-10	105.3 EXISTING UTILITY
100-10	105.4 HOURS OF WORK
100-11	<b>106 TRAFFIC CONTROL REQUIREMENTS</b>
100-11	106.1 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)
100-11	106.2 ARTERIAL LANE CLOSURES
100-11	<b>107 PERMITS</b>
100-11	<b>108 (RESERVED)</b>
100-11	<b>109 (RESERVED)</b>
100-12	<b>110 RECORD DRAWINGS</b>
100-12	110.1 RECORD DRAWING REQUIREMENT
100-15	110.2 RECORD DRAWING CERTIFICATION REQUIREMENTS
100-15	110.3 SUBMITTAL OF RECORD PLANS
100-16	110.4 PARTIAL SUBMITTAL OF RECORD PLANS
100-16	110.5 REVIEW OF RECORD PLANS

100-16 110.6 ACCEPTANCE OF RECORD DRAWINGS

100-18 **111 FINAL ACCEPTANCE OF IMPROVEMENTS**

## **101 GENERAL**

The purpose of this document is to present standards and specifications for the design of public and private improvements that will result in uniform, long lasting, quality construction. It is not intended as a substitute for good engineering judgment, and it anticipates that actual design work will be done by qualified professional engineers.

These standards also expect and require only the highest quality in construction procedures, workmanship, and finished product. Defective, inappropriate, damaged, or unacceptable construction, as determined by the City or its representative, will be removed and replaced at no expense to the City.

## **102 STANDARD SPECIFICATIONS**

### **102.1 WOOD DALE STANDARD SPECIFICATIONS**

The specifications contained herein shall be for the construction of the following public facilities within the City of Wood Dale:

- a) Section 100: General Administration
- b) Section 200: Storm Sewer
- c) Section 300: Sanitary Sewer
- d) Section 400: Water Distribution System
- e) Section 500: Pavement
- f) Section 600: Street Lighting & Traffic Signals
- g) Section 700: Grading, Landscaping & Erosion Control

These specifications shall be herein referred to as the Wood Dale Standard Specifications.

### **102.2 OTHER SPECIFICATIONS**

In addition to the specifications contained herein, the following documents shall be incorporated by reference:

- a) Illinois Department of Transportation, “Standard Specifications for Road and Bridge Construction”, latest edition. (herein referred to as IDOT Standard Specifications)
- b) Illinois Department of Transportation, “Supplemental Specifications and Recurring Special Provisions”, latest edition. (herein referred to as IDOT Supplemental Specifications)
- c) Illinois Department of Transportation, “Standard Specifications for Traffic Control Items”, latest edition.
- d) Illinois Department of Transportation, District 1 Traffic Signal Design Guidelines, latest edition.
- e) Illinois Department of Transportation, Design Manual, latest edition.
- f) Illinois Department of Transportation, Construction Manual, latest edition.
- g) Illinois Department of Transportation, Soils Manual, latest edition.
- h) Illinois Department of Transportation, Highway Standards, latest edition.

- i) Illinois Department of Transportation, Manual of Instructions for Concrete Proportioning and Testing, latest edition.
- j) Illinois Department of Transportation, Manual of Instructions for Bituminous Proportioning and Testing, latest edition.
- k) Federal Highway Administration, “Manual on Uniform Traffic Control Devices, latest edition” and the Illinois Supplement, latest edition.
- l) Illinois Society of Professional Engineers, Illinois Municipal League, et al, Standard Specifications for Water and Sewer Main Construction in Illinois, latest edition.
- m) ASTM Specifications, latest edition.
- n) AASHTO Standards, latest edition.
- o) The National Electrical Code, latest edition.
- p) The National Electrical Safety Code, latest edition.
- q) The Safety Rules for the Installation and Maintenance of Electric Supply and Communication Lines, latest edition.
- r) Illinois Urban Manual, IEPA/NRCS, latest edition.
- s) DuPage County, Countywide Stormwater and Flood Plain Ordinance, latest edition.
- t) National Resources Conservation Services, National Engineering Handbook, latest edition.
- u) City of Wood Dale Municipal Code Book.

### 102.3 RESOLUTION OF CONFLICTS

In the event of conflict between the Wood Dale Standard Specifications and the documents listed above in Section 102.2, the Wood Dale Standard Specifications shall take precedence and/or the City Engineer's decision will prevail. Any questions arising from these specifications should be directed in writing to the City Engineer for a determination. Any variation requested from these standards shall be submitted to the department head for approval.

### 102.4 USE OF OTHER MATERIALS

Products not currently approved for use within the City of Wood Dale may be considered for acceptance in accordance with the requirements of this section. The engineer, manufacturer, or City Department that desires to use a new product must submit that request in writing to the City Engineer. That request should include enough information about the product to allow the City Engineer to make a determination as to its appropriateness for use in the city. The request should also indicate if the product is requested for use on a specific project, or if the product is being



requested for inclusion in the Wood Dale Standard Specifications. Upon review of the material, the City Engineer will find the product to meet one of the following categories:

- a) Not Approved – The product submitted is not considered to be acceptable or appropriate for use in the city.
- b) More Information Required – The City Engineer may determine that the information provided is inadequate to make a determination. If that is the case, the applicant may resubmit to the City Engineer with additional information.
- c) Special Use Application Only – The product submitted is acceptable for use on a specific project. Certain products which are not currently approved for use in the City of Wood Dale may have qualities which make them appropriate for use on special projects, even if they are not acceptable for general use throughout the city.
- d) Trial Basis – A trial period may be required for products before they can be considered for inclusion in the Wood Dale Standard Specifications. For those products approved for use on a trial basis, the City Engineer will establish the conditions under which the product can be used. The trial period will typically be one year. The performance of the product will be evaluated during the trial period. At the conclusion of the trial period, the City Engineer will determine whether or not the product will be accepted into the Wood Dale Standard Specifications.
- e) Inclusion in the Wood Dale Standard Specifications – The City Engineer may determine that the product is acceptable for general use throughout the city. If the product is approved, it will be added to the Wood Dale Standard Specifications through the Revision and Amendment process.

In all cases, the City Engineer will respond to the applicant in writing.

The City Engineer shall be responsible for the acceptance or rejection of materials or products for use on city projects. However, the City Engineer may confer with other city staff members to aid in those decisions. For instance, rehabilitation products, materials and construction methods for existing sewer and water mains, services and manholes will also be reviewed by the Public Works Department.

#### 102.5 REVISIONS AND AMENDMENTS

The Wood Dale Standard Specifications will be revised and amended on a recurring basis as needed as determined by the City or its representative. All revisions and amendments will be cataloged in Appendix A.

All public improvements shall be constructed to the Wood Dale Standard Specifications in effect at the time final engineering approval is granted by the City unless specifically directed otherwise by the City Engineer.

#### 102.6 ENGINEERING DESIGN AND DEVELOPMENT STANDARDS MANUAL

The Engineering Design and Development Standards Manual is a manual prepared by the City of Wood Dale to provide developers, contractors, architects, engineers and other building

professionals an easy to follow guide for development within the City of Wood Dale. This manual incorporates aspects of the Wood Dale Standard Specifications, the Wood Dale Municipal Code, and other design standards. In the event of conflict between the Wood Dale Standard Specifications and the Design Manual, the Wood Dale Standard Specifications shall take precedence and/or the City Engineer's decision will prevail.

**103 DEVELOPER/CONTRACTOR RESPONSIBILITIES**

**103.1 PERMITTING**

The owner or his/her representative is responsible to obtain any and all permits required by applicable governmental agencies.

Any Work on private property requires City of Wood Dale Community Development Department approval prior to beginning any construction work. The Community Development Department should be contacted to obtain information regarding any improvements to private property.

Work in the right-of-way requires approval of the Director of Public Works or their designee. A right-of-way permit must be processed through the City before any work is completed within the City's right-of-way.

**103.2 BONDING AND REGISTRATION**

All contractors must be registered with the Community Development Department to make public improvements within the Wood Dale corporate limits.

All contractors must provide a surety bond or letter of credit equal to 110 percent of the value of the proposed improvements. This bond or letter of credit will be held by the city for the duration of the project plus the warranty period. The contractor or developer may request reductions in the value of the letter of credit as approved by the City Engineer.

**103.3 LIABILITY**

The contractor or developer assumes all responsibility and liability for any action resulting from their work within the public right-of-way.

**103.4 WARRANTY OF WORK**

The contractor or developer maintains ownership of, and shall be responsible for, all public improvements until the City Engineer provides a Letter of Final Acceptance. From the date of that letter, the city will take ownership of the facilities provided a 12-month warranty by the contractor or developer of all improvements. If at any time during that 12 month period the city considers that any portion of the improvements fail to be meet the Wood Dale Standard Specifications, or exhibit poor workmanship or quality of materials, the city will require the contractor or owner to repair or replace the facility.

## **104 SURVEYING AND BENCHMARKS**

### **104.1 CITY BENCHMARKS**

The City of Wood Dale does not maintain any benchmarks within the City limits. Surveyors are directed to use the DuPage County GIS application called benchmarks NAVD88 found at: <http://www.dupageco.org/GIS/1733/>

## **105 GENERAL CONSTRUCTION ACTIVITIES**

### **105.1 PRE-CONSTRUCTION MEETING**

At the discretion of City staff, a preconstruction meeting may be required with the City of Wood Dale prior to any work being started. A preconstruction meeting will not be scheduled until the project has been approved by the City of Wood Dale.

### **105.2 NOTIFICATION TO CITY**

A minimum of 2 business days' notice shall be given to the City of Wood Dale, prior to starting work, or restarting work after some absence of work for any reason.

### **105.3 EXISTING UTILITY LOCATIONS**

It shall be the contractor's responsibility to adequately identify and locate all existing utilities prior to excavation. Before starting construction, the contractor shall contact JULIE for the location of any and all utilities. The toll-free number is 800-892-0123.

### **105.4 HOURS OF WORK**

Unless otherwise specified in the contract, all work activities shall be limited to the following hours:

- a) Working Hours
  - Monday – Saturday: 7AM – 7PM
  - Sunday and Holidays: No work permitted

Construction work includes the delivery of any materials or equipment and the operation of tools, machinery and apparatus. Holidays include: New Year's Day, Memorial Day, 4<sup>th</sup> of July, Labor Day, Thanksgiving Day, and Christmas Day. Any exceptions to these limitations must be authorized by the Public Works Director.

## **106 TRAFFIC CONTROL REQUIREMENTS**

### **106.1 MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD)**

All developers and contractors shall provide suitable traffic control for their construction activities in accordance with Part 6 of the Manual on Uniform Traffic Control Devices, latest edition. Traffic control must be provided for any activity that impacts traffic flow. This includes, but is not limited to, road closures requiring detours, daily lane closures, long term lane closures, narrow lanes, and construction vehicles entering and exiting the public roadway. All traffic control set-ups may be inspected by the City of Wood Dale to ensure that they are providing positive guidance to motorists and are not in themselves presenting a hazardous situation. A representative of the developer or contractor must provide phone numbers at which they can be reached 24 hours a day and on weekends so that they can maintain traffic control devices.

Pedestrians must also be provided with a safe alternate route if pedestrian facilities are to be closed as a result of construction activities. Guidance must be provided to pedestrians so that they may avoid the work zone.

**107 PERMITS**

It shall be the responsibility of the owner/developer to obtain all required local, state and federal permits as needed to complete their work as contemplated. The City reserves the right to issue a stop work order in the event that proper permits have not been obtained, or if the work is not being conducted per the requirements of any permit.

**108 (RESERVED)**

**109 (RESERVED)**

## 110 RECORD DRAWINGS

Record drawings are required to provide a means of schematic verification that the intent of the approved engineering design has been met, thereby substantiating that the health, safety, and welfare aspects of the engineering design have been adequately provided by the construction of the project. Secondly, record drawings serve as a reference tool for future design and maintenance operations.

### 110.1 RECORD DRAWING REQUIREMENTS

#### a) General:

- 1) All improvements, whether private or public, are required to submit record drawings to the City for approval.
- 2) All elevations should be referenced to the same bench mark datum as the original design plans. The appropriate bench marks shall be noted on the cover sheet. Horizontal ties from the benchmark to fixed objects shall be included on the plans.
- 3) The information presented in the record drawings shall be clear and legible. Lettering on any plan shall not be smaller than 1/10 inch in height. Design data shall be lined out with one medium weight ink line and the record data shall then be lettered next to each lined out design dimension or elevation.
- 4) In the event that the civil engineering design drawings are larger than 24 inch x 36 inch, then the record plans shall be photographically reduced on photo fixed film to 24 inch x 36 inch and the scale of the reduced drawings marked on each sheet. However, photo reduction will only be allowed when the reduced drawing has a minimum lettering height of 1/10 inch.
- 5) If reduction of oversized plans yields a lettering height smaller than 1/10 inch, the plans will be copied at the existing scale onto several 24 inch x 36 inch Mylar sheets that overlap a minimum of 2 inches along each edge. A sheet key diagram will be added on the right or lower side of each sheet indicating how each 24 inch x 36 inch sheet should be assembled.
- 6) Digital Files: A standard layering scheme should be followed if possible. A sample scheme is attached as Exhibit 100-1. At a minimum, separate layers with clear concise layer names are required for alignment, profile, topography, soil borings, vegetation, water, rights of way, edge of pavement, roadway plan, roadside feature, property lines, buildings, traffic control, pavement markings, drainage, water, sanitary, electric, gas, telephone and railroads. Also, a plot file or pen schematic is required at time of submittal.

#### b) Watermain, Sanitary Sewers, and Storm Sewers

##### 1) Watermain

- i) Rim elevation on valve vaults, valve boxes, and service boxes.



- ii) Breakaway flange elevation on fire hydrants and auxiliary valve boxes.
  - iii) Pipe sizes, materials and linear distance along water main from appurtenance to appurtenance (i.e. - valve vault to tee, tee to bend, bend to valve, etc.).
  - iv) Horizontal ties to all valve vaults, boxes and hydrants (1.0 foot tolerances).
  - v) Horizontal ties to all bends, tees, or other fittings (1.0 foot tolerances).
  - vi) Location of fire and domestic service lines and horizontal ties to connections along the main.
  - vii) Location, material, thickness, length and invert at both ends of casing pipes.
- 2) Sanitary Sewer
- i) Rim elevations for manholes.
  - ii) Invert elevation for all pipes in manholes.
  - iii) Pipe sizes, materials and linear distance along sewer from structure to structure.
  - iv) Recalculated pipe slopes based on invert to invert elevation along the linear distance between manholes.
  - v) Locations of service lines and horizontal ties to connections along main, including horizontal ties to stub termini.
  - vi) Horizontal ties to all manholes (1.0 foot tolerance).
  - vii) Location, material, thickness, length and invert at both ends of casing pipes.
  - viii) Complete record drawings of lift stations, including all piping, electrical elements, and pumping elements.
- 3) Storm Sewers
- i) Rim elevation on inlets, catch basins, manholes, and top and bottom of slope boxes, head walls, and other special structures.
  - ii) Invert elevation of all pipes within inlets, catch basins, manholes; end sections, slope boxes, culverts, and other special structures.
  - iii) Pipe sizes, materials, and linear distance along sewers from structure to structure.
  - iv) Recalculated pipe slopes based on invert to invert elevations along the linear distance between structures.

- v) Horizontal ties on all inlets, catch basins, manholes, flared end sections, slope boxes, and culverts (1.0 foot tolerance).
  - vi) Location, material, thickness, length and invert at both ends of casing pipes.
- 4) Utilities Systems Identification
- i) Privately owned utility mains that are connected to public utility mains must be clearly labeled as such on the record plans together with a note that states private utility mains shall not be maintained by the City of Wood Dale.
- c) Stormwater Management

Upon completion of final grading or completion of all:

- 1) Detention basins
- 2) Retention basins
- 3) Constructed or regraded streams and channels
- 4) Overflow routes (street areas that act as overflow routes)
- 5) Street depressions which are planned detention areas
- 6) Permanent and/or temporary diversion berms, swales, and control structures
- 7) Parking lots which are planned detention areas

A topographical survey of the stormwater management areas outlined above shall be prepared by an Illinois Registered Professional Engineer. The plans shall contain sufficient spot elevations and grading contour lines to show that the stormwater management facilities have been constructed in compliance with the approved civil engineering design plans. Record information for all public improvements within the stormwater management area must be depicted on the record plans. Additionally, the as-constructed stormwater management volume together with the approved final engineering planned volume shall be depicted in tabular form. The potential as-constructed average and peak release rates as compared with the design release rates must be provided in tabular form when major deviations from the approved design have occurred.

- d) Outdoor Lighting
- 1) Horizontal ties on lighting standards and control cabinets (if applicable) as referenced to the approved plan stationing or coordinates (1.0 foot tolerance)
  - 2) Service cables and service transformers shall be depicted in schematic format

- 3) Directional orientation of mast arm with luminaire
  - 4) Dimensional ties shall be provided for all conduit crossings which are provided for present or future use
- e) Plats of Subdivision
- i. The Illinois State plane grid based bearings and ground based distances shall be noted along the subdivision boundary lines and along the lot lines, from two control monuments to the subdivision boundary monuments.

#### 110.2 RECORD DRAWING CERTIFICATION REQUIREMENTS

Certification of the record information shall be by a registered Professional Engineer in Illinois. The engineer shall review the improvements and provide a signed and sealed Statement of Opinion indicating that the project was constructed and will function in substantial conformance to the approved engineering plans, and that said improvements are accurately depicted on the record drawings. (A sample certification is attached for reference purposes as Exhibit 100-2.) The cover sheet for water, sanitary sewer, storm sewer, outdoor lighting and stormwater management submittals shall have the certification clearly printed thereon. The certification shall bear the original ink handwritten signature, date of signature and impressed seal of the Engineer that prepared the record civil engineering design plans. Per County ordinance, signatures over 90 days old at the time of submittal to the city will not be accepted.

In addition, each sheet shall bear the name of the project and be labeled, dated and initialed by the Professional Engineer using the standard legend denoting "Record Plan" as depicted on the sample certification, see Exhibit 100-3.

#### 110.3 SUBMITTAL OF RECORD PLANS

Three sets of 24 inch x 36 inch record blueline prints (bound/stapled on the 24 inch side) and an electronic copy in PDF format shall be submitted by the developer or the engineer that prepared them to:

City of Wood Dale  
Community Development Department  
404 N. Wood Dale Road  
Wood Dale, Illinois 60191

Each set shall be signed, sealed and dated by the engineer as described in Section 110.2. Additionally, the plans shall clearly indicate the type of submittal (i.e. watermain, sanitary sewer, stormwater, street lighting) and if the submission is a complete or a partial set as described in Section 110.4.

#### 110.4 PARTIAL SUBMITTAL OF RECORD PLANS

When the developer or the engineer for a particular development desires to initiate a partial acceptance of public facilities contained within a development, a partial set of record drawings can be submitted. The partial record plans shall consist of the cover sheet and those sheets which are involved in the partial acceptance.

Partial submittals will comply fully with the specifications contained in this document. In addition, the engineer shall state within the certification the scope of the partial submission (i.e. phase number, unit number, lot numbers, streets), and each sheet shall note “partial” adjacent to the engineer’s signature.

#### 110.5 REVIEW OF RECORD PLANS

A review of all record plans shall be made by the City Engineer and/or City of Wood Dale Community Development staff. If the City Engineer finds that revisions to the subject record plans are required, then the engineer that prepared such record plans shall be notified in writing as to what items on the record plans should be revised. The engineer that prepared the record plans shall:

- a) Make the revisions required promptly to avoid delay of acceptance or occupancy.
- b) Clearly note on the cover sheet and each sheet thereafter, the nature of the revision and the date that revisions were made, even if no revisions were made to that particular sheet.
- c) Re-date and resign the certification on the cover sheet.
- d) Resubmit 3 sets of record drawings and an electronic copy in PDF format for review as detailed in Section 110.2.

#### 110.6 ACCEPTANCE OF RECORD PLANS

Written approval of record plans must be obtained from the City Engineer and/or City of Wood Dale Community Development Staff and is an important part in the issuance of building permits, temporary/final occupancy permits, or acceptance of facilities by City Council.

Following review by the City Engineer, the Engineer/Developer will receive written notification that the record plans are in accordance with City Specifications. The Engineer/Developer shall then provide the city with copies of each sheet that the City Engineer has approved in the following formats:

- a) One copy of a reproducible Mylar sepia (3 mil minimum thickness) – 24 inch x 36 inch with the original ink seal and signature certification. All drawings on Mylar must be ink pens, inkjet or other similar technology. Xerographic methods are not acceptable.
- b) Two copies of record prints on paper – 24 inch x 36 inch
- c) One copy in a digital format (.dxf or .dwg) and an electronic copy in PDF format submitted on a standard size CD-ROM. The drawing file shall be drawn using decimal units with actual Illinois State Plane Grid Coordinates.

In cases of a discrepancy between the drawings submitted, the sealed Mylar will prevail. These drawings shall meet all specifications described within Section 110. No building permits, temporary/final occupancy permits, or acceptance of facilities by City Council will proceed until the reproducible documents have been submitted to:

City of Wood Dale  
Community Development Department  
404 North Wood Dale Road  
Wood Dale, Illinois 60191

### **111 FINAL ACCEPTANCE OF IMPROVEMENTS**

Final acceptance of public improvements shall be granted only after a final inspection has been completed and has revealed that all improvements have been satisfactorily completed in accordance with the Wood Dale Standard Specifications. The City Engineer shall provide a Letter of Final Acceptance. Upon issuance of that letter, the City will accept ownership of any public improvements.

Final acceptance does not relieve the developer or contractor of their responsibility to warranty their work for a period of one year from the date of final acceptance.

**EXHIBIT 100-1  
TYPICAL LAYER SCHEME FOR DIGITAL FILES**

<b>LAYER</b>	<b>Items that may be found on that layer</b>
Alignment	Centerline, base line, survey line, stationing, roadway name, bench marks, horizontal ties.
Profile	Roadway profile, vertical curve data, profile elevations, roadway dimensioning, vertical ties.
Topography	Ground contours, detention and retention areas elevations, associated text.
Soil Borings	Soil boring details, plan and profile.
Vegetation	Trees, brush, hedges, forests, associated text.
Water	Lakes, rivers, streams, ponds and associated text.
Right of Way	Right of way, access control, easements and associated text.
Edge of Pavement	Streets, roads, alleys etc.
Roadway Plan	Medians, curbs, gutter, and shoulders.
Roadside Features	Sidewalks, private entrances, commercial entrances.
Buildings	Buildings, fences, parking lots, advertising signs, mailboxes, associated text.
Private Boundaries	Property lines, iron pipes, concrete monuments, survey markers, section corners, ownership information.
Pavement Marking	Pavement marking lines, letters and symbols, raised pavement markers, delineators, regulatory signs and warning signs.
Traffic Signal	Traffic signal plan.
Electric	Power poles, cables, control cabinets, schematics, and junction boxes.
Water utility	Fire hydrants, valve vaults, pipe, buffalo box, pump stations, and storage
Sanitary sewer	Manholes, pipe, lift stations, treatment plants.
Drainage	Manholes, inlets, catch basins, sewer main, overflow routes, ditch flow line, detention and retention areas.
Railroads	Control box, crossing gate, tracks, signal and overpass.
Gas	Gas main.
Telephone	Telephone.

These drawings shall meet all specifications described within Section 700. No building permits, temporary/final occupancy permits, or acceptance of facilities by City Council will proceed until the reproducible documents have been submitted to:

City of Wood Dale  
Community Development Department  
404 N. Wood Dale Road  
Wood Dale, Illinois 60191

**EXHIBIT 100-2 SAMPLE CERTIFICATION  
STATEMENT OF OPINION**

Pursuant to the Wood Dale Municipal Code, I \_\_\_\_\_ a registered Professional Engineer in the State of Illinois, hereby declare that these "Record Drawings" pertaining to (watermain, sanitary sewer, storm sewer) (stormwater management) (outdoor lighting) consisting of sheets \_\_\_\_\_ and \_\_\_\_\_ included herewith, have been prepared for a certain project known as \_\_\_\_\_ and contain information as obtained by the surveyor \_\_\_\_\_ and the contractor \_\_\_\_\_.

It is my professional opinion that these "Record Drawings" adequately depict the Record Drawing Information required by the City of Wood Dale's "Record Drawing Procedures and Standards for Civil Engineering Site work Improvements," document bearing the effective date of \_\_\_\_\_, and substantiate that the improvements constructed as part of this project will function in substantial conformance to the design intent of the approved engineering plans.

Dated: \_\_\_\_\_

Signed: \_\_\_\_\_

Illinois Registration Number: \_\_\_\_\_

(SEAL)



**EXHIBIT 100-3  
STANDARD LEGEND**

<b>RECORD PLAN FOR</b>		
<b>TYPE</b>	<b>DATE</b>	<b>P.E. INITIALS</b>
WATERMAIN SANITARY SEWER STORM SEWER		
STORMWATER MANAGEMENT		
OUTDOOR LIGHTING		

**SECTION 200:  
STORM SEWER**

<u>Page No.</u>	<u>Description</u>
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200-3	<b>202 MATERIALS</b>
200-3	202.1 PIPES
200-4	202.2 GRANULAR PIPE BEDDING
200-4	202.3 GRANULAR PIPE BACKFILL
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200-4	202.5 MANHOLES
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200-10	<b>204 INSPECTION AND TESTING</b>
200-10	204.1 CLEANING
200-10	204.2 VISUAL TEST
200-10	204.3 DEFLECTION TESTING FOR FLEXIBLE PIPE

## **201 GENERAL**

The standards and requirements found in this article are for the materials and construction of storm sewer systems within the City of Wood Dale, Illinois.

### **201.1 SPECIFICATIONS**

All work and equipment performed and installed under this section shall be governed by and shall comply with the following specifications, manuals, and codes listed in Section 102.2. The most current editions and all subsequent revisions and alterations for the specifications are required.

### **201.2 CONNECTION TO EXISTING FACILITIES**

No connection to an existing public storm sewer may be made without permission of the Director of Public Works or their designee.

## 202 MATERIALS

### 202.1 PIPES

The following materials will be permitted for storm sewer and pipe culverts. Where a particular material is specified in the plans or special provisions, no other kind of material will be permitted all materials must be supplied by an IDOT approved supplier where applicable:

#### 202.1.1 REINFORCED CONCRETE PIPE (RCP)

Reinforced concrete pipe shall conform to ASTM Designation C 76, Classes I, II, III, IV or V. Bituminous joints shall conform to ASTM Designations C 14 or C 76 as may be applicable. Bituminous material shall consist of a homogeneous blend of bitumen, inert filler, and suitable solvent approved by the City Engineer. Rubber gasket joints shall conform to ASTM C 433.

Reinforced concrete pipe shall also be permitted as round, elliptical, or box shaped or as Reinforced Concrete Arch Culvert.

#### 202.1.2 NON-REINFORCED CONCRETE PIPE

Non-reinforced concrete pipe shall be allowed for pipes with a 10 inch or smaller diameter. Non-reinforced concrete pipe shall conform to ASTM Designation C 14, Class 3. Bituminous joints shall conform to ASTM Designations C 14 or C 76 as may be applicable. Bituminous material shall consist of a homogeneous blend of bitumen, inert filler, and suitable solvent approved by the City Engineer. Rubber gasket joints shall conform to ASTM C 433.

#### 202.1.3 DUCTILE IRON PIPE (DIP)

Ductile iron pipe shall conform to ANSI A 21.51 (AWWA C-151), class thickness designed per ANSI A 21.50 (AWWA C-150), tar (seal) coated and cement lined per ANSI A 21.4 (AWWA C-104), with mechanical or rubber ring (slip seal or push on) joints. All ductile iron pipe shall be wrapped with polyethylene.

#### 202.1.4 POLYVINYL CHLORIDE PIPE (PVC)

Polyvinyl Chloride (PVC) pipe shall conform to ASTM D3034, type PSM and ASTM D2241 for water main quality required pipe. The minimum Standard Dimension Ratio (SDR) shall be 26, for depth of 0'-12", SDR 21 for 12'-21', and SDR 18 for any depth over 21'. Joints for PVC pipe shall be flexible elastometric seals per ASTM D 3212 and ASTM F 477.

#### 202.1.5 HIGH DENSITY POLYETHYLENE PIPE (HDPE)

High-density polyethylene (HDPE) pipe shall conform to the requirements of AASHTO M 252 and M 294. Pipe and fittings shall be made from virgin PE compounds which conform to the requirements of cell class 324420C as defined and described in ASTM D 3350. Rubber gasket joints shall be used.

#### 202.1.6 FULLY GALVANIZED CORRUGATED STEEL PIPE

Fully Galvanized Corrugated Steel Pipe may be used for residential driveway crossings only when a ditch section is present. The minimum culvert size is 12" diameter.

## 202.2 GRANULAR PIPE BEDDING

Bedding, other than concrete embedment, shall consist of gravel, crushed gravel, or crushed stone 1/4 inch to 1 inch in size. As a minimum, the material shall conform to the requirements of IDOT standard specifications. The gradation shall conform to gradation CA-7 or CA-11 of the Standard Specifications.

## 202.3 GRANULAR PIPE BACKFILL

Backfill material shall conform to the requirements of IDOT standard specifications. The gradation shall conform to gradation CA-6 of the Standard Specifications.

## 202.4 CONNECTING DISSIMILAR PIPE MATERIALS

Joints connecting dissimilar pipe materials shall be made with sewer clamp non-shear type couplings; Cascade CSS, Romac LSS, Fernco, Inc. Shear Ring, or approved equal. When available, a standard joint with a transition gasket may be used. The name of the manufacturer, class, and date of issue shall be clearly identified on all sections of pipe. The contractor shall also submit bills of lading, or other quality assurance documentation when requested by the City Engineer.

## 202.5 MANHOLES

Manholes for storm sewers shall have a minimum inside diameter of 48 inches and shall be constructed of precast concrete units in accordance with ASTM C478-05 (or latest edition) and shall conform to the City of Wood Dale Standard Detail Storm 1. All manholes shall be water-tight. All visible leaks shall be sealed in a manner acceptable to the City Engineer.

### 202.5.1 FRAME AND COVER

Manholes shall be furnished with a self-sealing frame and solid cover (East Jordan Iron Works 1022 with Type A solid cover, or approved equal) with the word "Storm" imprinted on the cover in raised letters. All frames and lids shall meet or exceed AASHTO H-20 loading specifications. Frames shall be shop painted with asphaltic base paint.

Both the manhole frame and cover shall have machined horizontal and vertical bearing surfaces. Inverted manhole frames are not allowed.

Pick holes shall not create openings in the manhole cover.

### 202.5.2 STEPS

Manhole steps on maximum 16 inch center shall be furnished with each manhole, securely anchored in place, true to vertical alignment, in accordance with the Wood Dale Standard Details. Steps shall be copolymer polypropylene reinforced with 1/2 inch A615/A615M-05a (or latest edition) Grade 60 steel reinforcement, meeting or exceeding ASTM C 478-05 (or latest edition) and OSHA standards.

## 202.6 CATCH BASINS AND INLETS

Catch basins and inlets shall have a minimum inside diameter of 24 inches and shall be constructed of precast concrete units in accordance with ASTM C478-05 (or latest edition) and shall conform to the City of Wood Dale standard detail. All catch basins and inlets shall be water-tight at all points below grade. All visible leaks shall be sealed in a manner acceptable to the City Engineer.

### 202.6.1 FRAME AND GRATE

Catch basins and inlets shall be furnished with a frame and grate based upon the location of the installation as listed below. All frames and grates shall meet or exceed AASHTO H-20 loading specifications. Frames shall be shop painted with asphaltic base paint. All storm sewer lids and grates shall be cast with "Dump No Waste. Drains To River."

All manhole frames shall be required to have an external chimney seal. The chimney seal shall be Cretex or an approved equal product that is reviewed and approved by the City Engineer.

- a) Pavement: East Jordan Iron Works 1022 Frame with Type M1 Radial Flat Grate, or approved equal.
- b) Barrier curb and gutter: East Jordan Iron Works 7220 Frame with Type M1 Grate and T1 Curb Box, or approved equal.
- c) Depressed curb: East Jordan Iron Works 5120 Frame and Grate, or approved equal.
- d) Mountable curb: East Jordan Iron Works 7525 Frame and Grate, or approved equal.
- e) Non-paved areas: East Jordan Iron Works 6527 Beehive Grate, or approved equal. Alternately, in areas where there is the likelihood of pedestrian traffic, East Jordan Iron Works 1022 Frame with Type M1 Radial Flat Grate, or approved equal may be used.

## 202.7 CASING PIPES

All steel casing pipe shall be bituminous coated, a minimum of 30 mils thickness inside and out, shall be of leak proof construction and capable of withstanding the anticipated loadings. The minimum wall thickness for the casing pipe shall be in accordance with Table 200-1. The steel casing pipe shall have minimum yield strength of 35,000 psi and shall meet the requirements of A139/A139M-04 (or latest edition), Grade B. Ring deflection shall not exceed 2% of the nominal diameter. The steel casing pipe shall be delivered to the jobsite with beveled ends to facilitate field welding.

**TABLE 200-1  
REQUIRED CASING PIPE WALL THICKNESS**

Steel Casing Diameter	Minimum Wall Thickness (Inches)
20"- 22"	0.344
24"	0.375
28"	0.438
30"	0.469
32"	0.501
34"- 36"	0.532

## **203 CONSTRUCTION REQUIREMENTS**

### **203.1 GENERAL REQUIREMENTS**

#### **203.1.1 RESPONSIBILITY FOR MATERIALS**

The contractor shall be responsible for the acceptability and storage of all materials furnished by him and shall assume responsibility for the replacement of all such material found damaged in shipping or on job site or defective in manufacture. This shall include the furnishing of all material and labor required for the replacement of installed material discovered to be defective prior to the final acceptance of the work.

#### **203.1.2 STORAGE OF PIPING MATERIALS**

The interior, as well as all sealing surfaces of all pipe, fittings, and other accessories shall be kept free from dirt and foreign matter. Store pipe bundles on flat surfaces with uniform support. Pipe stored outside and exposed to prolonged periods of sunlight should be covered with canvas or other opaque material. Clear plastic sheets shall not be used. Air circulation shall be provided under covering. Keep gaskets away from oil, grease, electric motors (which produce ozone), excessive heat and direct rays of the sun. Consult the manufacturer for specific storage recommendations.

#### **203.1.3 HANDLING OF PIPING MATERIALS**

Piping materials shall be unloaded, hauled and distributed at the site of the project by the contractor. Materials shall at all times be handled properly to prevent damage in accordance with manufacturer's recommendations. Pipe and fittings shall not be thrown, dropped, or dragged. Damaged or defective material on the job site shall be rejected and replaced to the satisfaction of the City Engineer. Methods of construction conducive to the damage of sewer pipe shall be corrected when called to the attention of the contractor. All pipe and fittings shall be examined by the contractor above grade before placement in the trench.

### **203.2 MANHOLES, CATCH BASINS AND INLETS**

#### **203.2.1 INSTALLING STRUCTURES IN NON-PAVED AREAS**

BMP shall be used at each structure to prevent debris and foreign material from entering the system during construction.

#### **203.2.2 INSTALLING STRUCTURES IN PAVED AREAS**

For structures located in paved areas, a minimum of four, 2 inch diameter holes shall be drilled or precast into the structure within 1 foot of the lowest pipe invert. The holes shall be distributed equidistant around the perimeter of the structure. A one (1) foot by one (1) foot section of underdrain filter cloth material shall be sufficiently fixed to the outside of the manhole with mastic materials to prevent slippage during backfilling.

### 203.2.3 WATER-TIGHTNESS

Non-shrinking hydraulic cement shall be used on all interior and exterior joints within the barrel section to provide a water-tight seal between structure sections. No hydraulic cement shall be applied above the cone section or flat top.

### 203.2.4 PIPE CONNECTIONS

All structures without sumps shall be provided with a precast or cast-in-place concrete fillet, or bench, to provide a smooth flow between pipe sections.

The inside and outside of all pipe section connections to storm structures shall be shaped with additional mortar to provide a 3 inch collar around the pipe.

### 203.2.5 FRAMES

All storm sewer structure frames without inside flanges shall be shaped with non-shrinking hydraulic cement to form a fillet to the structure or adjusting ring.

When adjustments are necessary, they shall be performed with a maximum of 2 precast concrete rings set in a continuous layer of preformed bituminous mastic. The maximum height of adjustment shall be 12 inches. Two inch concrete rings shall only be used when the adjustment is less than 3 inches.

Adjustments less than 4 inches may be made using hard composite rubber type rings, such as GNR or approved equal. Only one type of adjusting ring may be used on a structure: combining both concrete and hard composite rubber rings on a structure is not permitted.

## 203.3 TRENCH BACKFILL, BEDDING & BACKFILL

Granular pipe bedding and haunching shall be required on all storm sewers installed in the City of Wood Dale. Initial backfill shall be required for all sewers constructed of PVC or other flexible pipe material.

### 203.3.1 PIPE BEDDING

Bedding, other than concrete embedment, shall consist of gravel, crushed gravel, or crushed stone. The pipe shall be laid so that it will be uniformly supported and the entire length of the pipe barrel will have full bearing. No blocking of any kind shall be used to adjust the pipe to grade except when used with embedment concrete. Bedding shall be required for all sewer construction, and shall be of a thickness equal to 1/4 of the outside diameter of the sewer pipe with a maximum thickness of 8 inches. Granular pipe bedding shall be a minimum of 4 inches in earth excavation and a minimum of 6 inches in rock excavation.

Where unsuitable material is encountered at the grade established, all such unsuitable soil shall be removed under the pipe and for the width of the trench, and shall be replaced with well compacted bedding material. The size range and resulting high voids ratio of bedding material make it suitable for use to dewater trenches during pipe installation. This permeable characteristic dictates that its use be limited to locations where pipe support will not be lost by migration of fine grained natural material from the trench walls and bottom or migration of other materials into the bedding material. When such migration is possible, the material's minimum size range should be reduced to finer than 1/4 inch and the gradation properly designed to limit the size of the voids.

Bedding materials shall be placed to provide uniform and adequate longitudinal support under the



pipe. Bell holes at each joint shall be provided to permit the joint to be assembled properly while maintaining uniform pipe support. When the joint has been made, the void under the bell will be filled with bedding or haunching material.

#### 203.3.2 HAUNCHING

The most important factor affecting pipe performance and deflection is the haunching material and its density. Place and consolidate the material under the pipe haunch to provide adequate side support to the pipe while avoiding both vertical and lateral displacement of the pipe from proper alignment. The same coarse materials as used for initial backfill shall also be used for haunching. Place haunching up to the pipe spring line.

#### 203.3.3 INITIAL BACKFILL FOR FLEXIBLE PIPE

Initial backfill begins above the spring line of the pipe and extends to a point 6 inches above the top of the pipe and shall be CA-7 or CA-11 carefully placed so as to completely fill the space around the pipe, in 8 inch layers, loose measurements, and compacted to the satisfaction of the City Engineer.

#### 203.3.4 SELECTED GRANULAR BACKFILL

The backfill for trenches and excavation made in existing or under proposed pavements where the inner edge of the trench is within 2 feet of the edge of the pavement, curb, gutter, curb and gutter, or sidewalk, shall be made with compacted selected granular material conforming to IDOT gradation CA-6. Selected granular backfill shall be placed in uniform layers not exceeding 6 inches (loose measure) and compacted with mechanical equipment to 95% of the standard proctor density in accordance with the applicable AASHTO or ASTM requirements.

#### 203.3.5 DEPTH OF PIPE COVER

The depth of cover over the pipe shall be appropriate for the material and class of pipe specified for the installation. In no case shall the cover over the pipe be less than 24 inches unless specifically allowed otherwise by the City Engineer.

### 203.4 PIPE INSTALLATION

#### 203.4.1 LAYING OF PIPE

All pipe shall be laid true to line and grade. Dirt and other foreign material shall be prevented from entering the pipe or pipe joint during handling or laying operations.

#### 203.4.2 PIPE TO PIPE CONNECTIONS

All storm sewer pipe to pipe connections shall be sealed with butyl mastic to ensure water tightness. Lift holes are to be sealed using butyl mastic and concrete plugs. At no time shall connections between the storm sewer system and sanitary sewer systems be allowed.

Alternately, premium joint pipe with integral O-rings may be used.

#### 203.4.3 END SECTIONS

Storm sewer pipes may be terminated with special end sections including flared end sections and box inlets. Any end section with an opening greater than 12 inches in diameter shall be covered with a grate whose openings are 3 inch horizontal by 8 inch vertical and is rakeable.

#### 203.4.4 EXISTING DRAIN OR FIELD TILES

All drain or field tiles encountered during construction must be connected to the storm drainage system. The location of known field tiles shall be depicted on the final engineering plans. The connection point of all field tiles to the storm drainage system must be shown on the record drawings for storm sewers.

## 204 INSPECTION AND TESTING

### 204.1 CLEANING

Prior to acceptance, all the storm sewer and storm sewer appurtenances shall be cleaned and operational to the satisfaction of the City Engineer.

### 204.2 VISUAL TEST

The City of Wood Dale may require that storm sewer lines be inspected visually to verify accuracy of alignment and freedom from debris and obstructions. The percentage of sewer lines inspected will be designated by the City Engineer. The full diameter of the pipe for straight alignments shall be visible when viewed between consecutive manholes. The method of test shall be either photography or closed circuit television, unless a specific method is required by the special provisions and approved by the City Engineer.

### 204.3 DEFLECTION TESTING FOR FLEXIBLE PIPE

A mandrel test is required by the City of Wood Dale. The City Engineer shall randomly select portions of the project to be deflection tested. Such portions shall consist of the manhole intervals for the initial sewer construction up to 1,200 linear feet and not less than 20% of the remainder of the sewer project. The City of Wood Dale reserves the right to test more or less pipe if considered appropriate by the City Engineer.

The 5% deflection test for pipe sizes 6 inches to 18 inches in diameter is to be run using a nine- arm mandrel having a diameter equal to 95% of the inside diameter of the pipe as established in ASTM D-2241-96b. Table 200-2 was developed using the equations outlined in Section 31- 1.11C of the Standard Specifications for Water and Sewer Main Construction in Illinois and shall be applied to testing of storm sewer pipe.

**TABLE 200-2  
REQUIRED MANDREL SIZE FOR FLEXIBLE PIPE**

Nominal Pipe Size, Inches	Average Inside Diameter (PVC)	Required Mandrel Size, Inches
6	6.08	5.68
8	7.92	7.38
10	9.87	9.23
12	11.71	10.98
14	12.86	12.02
16	14.70	13.65

#### 204.3.1 TIME OF TESTING

The individual lines to be tested shall be tested no sooner than 30 days after they have been installed by the contractor. During the first year of implementation, additional testing may be performed by the City of Wood Dale.

#### 204.3.2 SEQUENCE OF TESTING

Wherever possible and practical, the testing shall initiate at the downstream lines and proceed towards the upstream lines.

#### 204.3.3 TESTING OF ENTIRE PROJECT

In the event that the deflection exceeds the 5% limit in 10% or more of the manhole intervals tested, the total sewer project shall be tested.

#### 204.3.4 RETEST OF FAILED SECTIONS

Where deflection is found to be in excess of 5% of the base inside diameter, the contractor shall excavate to the point of excess deflection and carefully compact around the point where excess deflection was found. The line shall then be retested for deflection. However, if the deflected pipe fails to return to the original size (inside diameter) after the initial testing, the affected segment shall be replaced.

**SECTION 300:  
SANITARY SEWER**

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### **301 GENERAL**

The standards and requirements found in this article are for the materials and construction of sanitary sewers within the City of Wood Dale, Illinois.

#### **301.1 SEWAGE COLLECTION AND TREATMENT**

All sanitary sewage of domestic and other water borne wastes shall be collected and conveyed in a sanitary sewer pipe system to a point of discharge into an existing sanitary sewer system, City of Wood Dale interceptor, or sewage treatment plant. No sanitary sewage shall be allowed to enter any storm sewer system or discharge onto the ground or into receiving streams without first being treated in accordance with city, county, state and federal regulations.

#### **301.2 SPECIFICATIONS**

These specifications cover pipe for sanitary sewers and service connections, sewer fittings, manholes and all appurtenances normally used for sanitary sewer collection systems. Special considerations will be covered in the detailed plans and special provisions covering the proposed construction. Sanitary sewers shall be installed in accordance with the "Standard Specifications for Water and Sewer Main Construction in Illinois", latest edition, and applicable ordinances of the City of Wood Dale, except as modified herein.

#### **301.3 REGULATIONS**

Additional rules and regulations governing the construction of sanitary sewers in the City of Wood Dale are:

- a) The Sewer Permit Ordinance
- b) The Sewage and Wastewater Control Ordinance
- c) The restrictions, policies, and instructions that may be adopted or issued by the City of Wood Dale
- d) The Illinois Pollution Control Board Regulations
- e) The Environmental Protection Act
- f) Any variance request shall be submitted to the department head for review

#### **301.4 START OF CONSTRUCTION**

The contractor shall not begin construction until all required permits have been obtained. Copies of all permits obtained by outside agencies must be provided to the city prior to the start of construction.

### 301.5 UTILITY IDENTIFICATION

A wood stake (4 inch by 4 inch by 6 foot) stake with not less than the top 2 feet painted green shall be installed next to each sanitary sewer manhole, clean-out, and at the end of each sewer stub (termination at the end of the line). The 4 inch by 4 inch by 6 foot stake shall be maintained in a plumb position until City acceptance of the utility structures.

When newly poured curbs are installed, the contractor shall use a City approved stamp to indent the wet concrete with an "S" to identify the location of each sanitary manhole and sewer stub. The letter "S" shall be indented at the top of the curb 1-1/2 inches to two 2 inches in height and width at a depth of 3/8 inches.

In areas where new curbs are not present or if the developer and/or the contractor fail to indent the curbs as outlined above, the City will then require that identification symbols as approved by the City Engineer be cut into the curb.

## **302 MATERIALS**

### **302.1 MANHOLES**

Manholes for sanitary sewers shall have a minimum inside diameter of 48 inches and shall be constructed of precast concrete units in accordance with ASTM C478-05 (or latest edition) and Section 32 of the "Standard Specifications for Water and Sewer Main Construction in Illinois," and shall follow the City of Wood Dale sanitary sewer standards. All manholes shall be water-tight. All visible leaks shall be sealed in a manner acceptable to the City Engineer.

#### **302.1.1 FRAME AND COVER**

Manholes shall be furnished with a self-sealing frame and solid cover (Neenah Foundry R-1772, East Jordan Iron Works 1022-Z3, or equal approved by the City Engineer) with the word "Sanitary" imprinted on the cover in raised letters (see Wood Dale Standard Sanitary Detail 3). All frames and lids shall meet or exceed AASHTO H-20 loading specifications. Frames shall be shop painted with asphaltic base paint.

All manhole frames shall be required to have an external chimney seal. The chimney seal shall be Cretex or an approved equal product that is reviewed and approved by the City Engineer.

Both the manhole frame and cover shall have machined horizontal and vertical bearing surfaces. Inverted manhole frames are not allowed.

Pick holes shall not create openings in the manhole cover.

#### **302.1.2 WATER-TIGHTNESS**

Bolt-down frames shall be used in areas subject to flooding and where indicated on the plans. Bolt-down frames and covers shall be Neenah Foundry R-1916-F, East Jordan Iron Works 1040 ZPT or equal approved by the City Engineer. Frames are to be bolted to cone and cover to frame using stainless steel anchor bolts.

A continuous layer of non-hardening, preformed bituminous mastic material, Conseal 102B or approved equal, shall be applied to each manhole barrel cone and top section to provide a watertight seal. Each joint between sections shall be sealed by Cretex or an approved equal that is reviewed and approved by the City Engineer.

Rubber boots/seals must be used where pipes enter manholes. The internal connection shall be dressed up with non-shrink hydraulic cement. Hydraulic cement, mortar, and concrete must be of the strength and water-tightness quality as specified in the ASTM standards.

Lifting holes that extend through the wall of manhole shall not be allowed.



### 302.1.3 FRAME ADJUSTMENTS

Manhole frames shall be adjusted to proper grade using composite material rings as approved by City Engineer. Bricks, rocks, shims, or concrete blocks are not be allowed. Tapered composite adjusting rings, as approved by City Engineer, shall be required when the frame will be with a roadway area. No dressing or tuckpointing mortar is allowed on rings. Final frame adjustment for manholes within the roadway area shall be in accordance with Sections 602 and 603 of Standard Specifications for Road and Bridge Construction, prepared by the Illinois Department of Transportation, latest edition.

All manhole frames and adjusting rings shall be securely sealed to the cone section or top barrel section of the manhole using resilient, flexible, non-hardening, preformed bituminous mastic material, Conseal 102 B or approved equal. The mastic shall be applied in such a manner that no surface water or ground water inflow can enter the manhole through gaps between the top barrel section or cone section and the first adjusting ring, between adjusting rings, or between the last adjusting ring and the manhole frame. Up to 12 inches of adjusting rings may be installed on a given manhole. No more than one 2 inch adjusting ring, and no more than two adjusting rings in total shall be used.

### 302.1.4 STEPS

Manhole steps on maximum 16 inch center shall be furnished with each manhole, securely anchored in place, true to vertical alignment, in accordance with the Wood Dale Standard Details. Steps shall be copolymer polypropylene reinforced with ½ inch A615/A615M-05a (or latest edition) Grade 60 steel reinforcement, meeting or exceeding ASTM C 478-05 (or latest edition) and OSHA standards.

## 302.2 PIPE TO MANHOLE CONNECTOR

A flexible pipe-to-manhole connector shall be used for the connection of the sanitary sewer to precast concrete manholes. The connector shall meet ASTM C923-02 and ASTM A167- 99(2004), or latest edition, and be constructed of EPDM rubber with 304 or 316 series stainless steel connectors (KOR-N-SEAL by NPC, PSX by Press-Seal Gasket Corporation, or approved equal).

## 302.3 PIPES

All sanitary sewer pipe materials shall conform to the latest applicable ANSI, ASTM, AWWA, AASHTO, or other nationally accepted standards. Only the following sanitary sewer pipe and joint materials are approved for use in the City of Wood Dale, Illinois:

- a) Class 50 ductile iron pipe conforming to ANSI/AWWA C151/A.21.51-02 (or latest edition) with joints conforming to ANSI/AWWA C111/A.21.11-00 (or latest edition). Ductile shall be encased in polyethylene encasement in accordance with ANSI/AWWA C105/A21.5-99 (or latest edition).
- b) Polyvinyl chloride (PVC) pipe (6 inch -16 inch) conforming to ASTM D2241-05 (or latest edition) (SDR 26 – sewer depth between 4-20 feet and SDR 21 for depths between 20-25 feet) with joints conforming to ASTM D3139-98 (2005) or latest edition.

- c) Also acceptable in lieu of ASTM D2241-05 are C900 (SDR 18) for 12 inch diameter sewers and C905 (SDR 25) for 14 inch through 18 inch sewers.

### 302.3.1 PVC PIPE

This specification is appropriate for PVC pipe (6 inch - 16 inch) complying with ASTM D2241-05 and ASTM D3139-98 (2005) or latest edition. Any proposed PVC pipe greater than 16 inches in size must be approved by City Engineer prior to use. PVC pipe cannot be used in Class V soils (i.e. organic silt, organic clay and peat) as defined according to the Unified Soil Classification System in ASTM D2487-00 (or latest edition). Solvent cement joints will not be allowed in the City of Wood Dale.

Pipe shall be clearly marked as follows at intervals of 5 feet or less:

- a) Manufacture's name or trademark and code
- b) Nominal pipe size
- c) The PVC cell classification, for example 12454-B
- d) The legend "Type IPS SDR-26 PVC 1120 Sewer Pipe"
- e) This designation "Specification D-2241"

PVC Pipe shall be SDR 26. For sewer depths between 20 and 25 feet, SDR 21 shall be provided. Higher SDR numbers will only be allowed with the approval of the City Engineer.

### 302.3.2 PVC FITTINGS

All PVC fittings shall comply with ASTM F1970-05 (or latest edition) and fittings shall be clearly marked as follows:

- a) Manufacturer's name or trademark
- b) Nominal size
- c) The material designation PVC or IPS (iron pipe size), and this designation "Specification D2241"

Fitting shall be molded for pipe sizes between 6 inches and 8 inches in diameter, and fabricated fittings for 10" to 16" in diameter. A minimum of 150 psi pressure class shall be provided.

PVC fittings shall be SDR 26. Higher SDR numbers will only be allowed with the approval of the City Engineer. Fittings shall be required to pass the same inspection and testing requirements of the PVC pipe.

### 302.4 CONNECTING DISSIMILAR PIPE MATERIALS

Joints connecting dissimilar pipe materials shall be made with sewer clamp non-shear type couplings; Cascade CSS, Romac LSS, Fernco, Inc. Shear Ring, or approved equal. When available, a standard joint with a transition gasket may be used. The name of the manufacturer, class, and date of issue shall be clearly identified on all sections of pipe. The contractor shall also submit bills of lading, or other quality assurance documentation when requested by the City Engineer.

### 302.5 CASING PIPES

All steel casing pipe shall be bituminous coated, a minimum of 30 mils thickness inside and out, shall be of leak proof construction and capable of withstanding the anticipated loadings. The minimum wall thickness for the casing pipe shall be in accordance with Table 300-1. The steel casing pipe shall have minimum yield strength of 35,000 psi and shall meet the requirements of A139/A139M-04 (or latest edition), Grade B. Ring deflection shall not exceed 2% of the nominal diameter. The steel casing pipe shall be delivered to the jobsite with beveled ends to facilitate field welding

**TABLE 300-1  
REQUIRED CASING PIPE WALL THICKNESS**

Steel Casing Diameter	Minimum Wall Thickness (Inches)
20"- 22"	0.344
24"	0.375
28"	0.438
30"	0.469
32"	0.501
34"- 36"	0.532

### 302.6 BEDDING, HAUNCHING AND INITIAL BACKFILL

The material used for pipe bedding, haunching and initial backfill shall consist of gravel, crushed gravel, or crushed stone conforming to the requirements of Article 1004.01 of the "Standard Specifications for Road and Bridge Construction", prepared by the Illinois Department of Transportation. The gradation shall conform to gradation CA-7 or CA-11 of the Standard Specifications.

### 302.7 SELECTED GRANULAR BACKFILL

Selected granular backfill, or trench backfill, shall consist of gravel, crushed gravel, or crushed stone conforming to the requirements of Article 1004.01 of the "Standard Specifications for Road and Bridge Construction", prepared by the Illinois Department of Transportation. The gradation shall conform to gradation CA-6 of the Standard Specifications.

### **303 CONSTRUCTION REQUIREMENTS**

#### **303.1 GENERAL REQUIREMENTS**

##### **303.1.1 RESPONSIBILITY FOR MATERIALS**

The contractor shall be responsible for the acceptability and storage of all materials furnished by him or herself and shall assume responsibility for the replacement of all such material found damaged in shipping or on job site or defective in manufacture. This shall include the furnishing of all material and labor required for the replacement of installed material discovered to be defective prior to the final acceptance of the work.

##### **303.1.2 STORAGE OF PIPING MATERIALS**

The interior, as well as all sealing surfaces of all pipe, fittings, and other accessories shall be kept free from dirt and foreign matter. Store pipe bundles on flat surfaces with uniform support. Pipe stored outside and exposed to prolonged periods of sunlight should be covered with canvas or other opaque material. Clear plastic sheets shall not be used. Air circulation shall be provided under covering. Keep gaskets away from oil, grease, electric motors (which produce ozone), excessive heat and direct rays of the sun. Consult the manufacturer for specific storage recommendations.

##### **303.1.3 HANDLING OF PIPING MATERIALS**

Piping materials shall be unloaded, hauled and distributed at the site of the project by the contractor. Materials shall at all times be handled properly to prevent damage in accordance with manufacturer's recommendations. Pipe and fittings shall not be thrown, dropped, or dragged. Damaged or defective material on the job site shall be rejected and replaced to the satisfaction of the City Engineer. Methods of construction conducive to the damage of sewer pipe shall be corrected when called to the attention of the contractor. All pipe and fittings shall be examined by the contractor above grade before placement in the trench.

#### **303.2 MANHOLES**

##### **303.2.1 PIPE CONNECTIONS**

Where a connection is made to an existing manhole, the manhole shall be cored, and a flexible pipe-to-manhole connector installed. The existing manhole bench shall be reworked as required by City Engineer.

Inverts shall be made to conform accurately to the sewer grades with smooth, well rounded junctions and transitions satisfactory to the City Engineer. If the invert is to be poured in place, the sanitary sewer pipe shall be extended through the manhole, the concrete poured and formed, and the pipe then sawed out through the manhole.

#### **303.3 TRENCHING**

Trench construction shall be done in accordance with Sections 20 and 31 of the Standard Specifications for Water and Sewer Main Construction in Illinois, except as modified herein.

### 303.3.1 WIDE TRENCH

Wide trenches are classified as trenches whose width at the top of the pipe is greater than 2 1/2 pipe diameters on each side of the pipe or a total of 6 pipe diameters. Although there is no width of trench beyond which the load on a flexible pipe exceeds the prism load, accepted installation practices usually dictate narrow trench construction. In isolated circumstances it may be more cost effective to use wide trench construction, i.e., in areas where narrow trench walls cannot be maintained. If trench width at the top of a small diameter pipe (4 inch - 10 inch diameter) must exceed 6 pipe diameters, the embedment up to the pipe spring line should be compacted to a point approximately 2 1/2 pipe diameters from each side of the pipe. For large diameter PVC pipe (12 inch - 48 inch diameter) installed in wide trenches, the embedment up to the pipe spring line should be compacted to a point at least one pipe diameter or 2 feet from side of the pipe, whichever is greater.

### 303.3.2 ROCK SUB-GRADE

Ledge rock, hard pan, cobbles, boulders or stones larger than 1 1/2 inches shall be removed from the trench bottom to permit a minimum bedding thickness of 6 inches.

## 303.4 PIPE BEDDING AND BACKFILL

Granular pipe bedding and haunching shall be required on all sanitary sewers installed in the City of Wood Dale. Initial backfill shall be required for all sanitary sewers constructed of PVC or other flexible pipe material.

### 303.4.1 PIPE BEDDING

Granular pipe bedding shall be provided so that the pipe will be uniformly supported and the entire length of the pipe barrel will have full bearing. No blocking of any kind shall be used to adjust the pipe to grade except when used with embedment concrete. Bedding shall be required for all sewer construction, and shall be of a thickness equal to 1/4 of the outside diameter of the sewer pipe with a maximum thickness of eight inches. Granular pipe bedding shall be a minimum of 4 inches in earth excavation and a minimum of 6 inches in rock excavation.

Where unsuitable material is encountered at the grade established, all such unsuitable soil shall be removed under the pipe and for the width of the trench, and shall be replaced with well compacted bedding material. The size range and resulting high voids ratio of bedding material make it suitable for use to dewater trenches during pipe installation. This permeable characteristic dictates that its use be limited to locations where pipe support will not be lost by migration of fine grained natural material from the trench walls and bottom or migration of other materials into the bedding material. When such migration is possible, the material's minimum size range should be reduced to finer than 1/4 inch and the gradation properly designed to limit the size of the voids.

Bedding materials shall be placed to provide uniform and adequate longitudinal support under the pipe. Bell holes at each joint shall be provided to permit the joint to be assembled properly while maintaining uniform pipe support. When the joint has been made, the void under the bell will be filled with bedding or haunching material.

#### 303.4.2 HAUNCHING

The most important factor affecting pipe performance and deflection is the haunching material and its density. Place and consolidate the material under the pipe haunch to provide adequate side support to the pipe while avoiding both vertical and lateral displacement of the pipe from proper alignment. Place haunching up to the pipe spring line.

#### 303.4.3 INITIAL BACKFILL FOR FLEXIBLE PIPE

Initial backfill begins above the spring line of the pipe and extends to a point 6 inches above the top of the pipe. This material shall be carefully placed so as to completely fill the space around the pipe, in 8 inch layers, loose measurements, and compacted to the satisfaction of the City Engineer.

#### 303.4.4 SELECTED GRANULAR BACKFILL (TRENCH BACKFILL)

The backfill for trenches and excavation made in existing or under proposed pavements where the inner edge of the trench is within 2 feet of the edge of the pavement, curb, gutter, curb and gutter, or sidewalk, shall be made with compacted selected granular material. Selected granular backfill shall be placed in uniform layers not exceeding 6 inches (loose measure) and compacted with mechanical equipment to 95% of the standard proctor density in accordance with the applicable AASHTO or ASTM requirements.

#### 303.4.5 DEPTH OF PIPE COVER

All pipe shall be laid to a minimum depth of 7 feet measured from the proposed ground surface to the top of the pipe, unless specifically allowed otherwise in special circumstances by the City Engineer. If allowed, sanitary sewer and services with ground cover less than 4 feet or more than 25 feet must be constructed of ductile iron class 50 pipe. PVC pipe installed for sewer depths between 20-25 feet shall have a SDR 21 rating. All sanitary sewers and services with less than 4 feet of cover shall have insulation.

### 303.5 PIPE INSTALLATION

#### 303.5.1 LAYING OF PIPE

Sanitary sewer pipe shall be laid true to line and grade as set forth in Section 31 paragraph 31-1.02 of the "Standard Specifications for Water and Sewer Main Construction in Illinois." Dirt and other foreign material shall be prevented from entering the pipe or pipe joint during handling or laying operations.

Any pipe or fitting that has been installed with dirt or foreign material in it shall be cleaned and re-inspected. At times when pipe laying is not in progress, and at the end of each working day, the open end of the pipe shall be closed with a water tight plug to ensure absolute cleanliness inside the pipe. The City Engineer may request mechanical cleaning (jet flushing) and/or televising if necessary to ensure clean, acceptable pipes, at the contractor's expense.

### 303.5.2 LAYING OF PIPE ON CURVES

The curvature of sanitary sewers is allowed for sewers 8 inches to 12 inches in diameter. Alignments must follow the general alignment of streets. Only a simple curve design is acceptable. The minimum allowable radius of curvature is 300 feet. Compression type pipe joints are required and manholes are required at the beginning and end of all curves. Maximum joint deflection shall not exceed the manufacturer's recommendations.

### 303.5.3 INSTALLING PIPE THROUGH CASINGS

This work shall be in conformance with Section 20-2.19 of the Standard Specifications for Water and Sewer Main Construction in Illinois, except as modified herein. Encasements for pipes under highways or railroads shall conform to the requirements of the City of Wood Dale, or the owner of the highway or railroad. Manufactured non-metallic or non-corrosive casing spacers, adjustable runners, or cradles shall be used to support the pipe in the casing and shall be installed per manufacturer's recommendations. A minimum of two supports shall be used per joint of pipe for lengths up to 12.5 feet, and a minimum of three supports shall be used per joint for lengths greater than 12.5 feet. The annular space shall be filled with pea gravel, low-strength grout, or cellular foam concrete and provisions shall be made so that no voids are left. Contractor shall make arrangements to have a City of Wood Dale representative witness the annular spacing filling operations.

### 303.5.4 CUTTING AND BEVELING PIPE

For shorter than standard pipe lengths, field cuts may be made with either hand or mechanical saws or plastic pipe cutters. Ends shall be cut square and perpendicular to the pipe axis. Spigots shall have burrs removed and ends smoothly beveled by a mechanical bevel or by hand with a rasp or file. Field spigots shall be stop-marked with felt tip marker or wax crayon for the proper length of assembly insertion. The angle and depth of field bevels and lengths to stop-marks shall be comparable to factory pipe spigots.

### 303.5.5 ASSEMBLY OF JOINTS

Assemble all joints in accordance with recommendations of the manufacturer. If a lubricant is required to facilitate assembly it shall have no detrimental effect on the gasket or on the pipe when subjected to prolonged exposure. Proper jointing may be verified by rotation of the spigot by hand or with a strap wrench. If unusual joining resistance is encountered or if the insertion mark does not reach the flush position, disassemble the joint, inspect for damage, re-clean the joint components and repeat the assembly steps. Note that fitting bells may permit less insertion depth than pipe bells (NOTE: When mechanical equipment is used to assemble joints, care should be taken to prevent over insertion.)

### 303.5.6 BUILDING SERVICES

When main line bedding, haunching, initial and final backfill must be disturbed to install fittings and service lines, the contractor is directly responsible to ensure that the bedding, haunching, initial and final backfill with appropriate compaction are restored properly to eliminate the possibility of deflection or movement causing future pipe failure.

### 303.5.7 PIPE CAPS AND PLUGS

All caps and plugs shall be braced, staked, anchored, wired or otherwise secured to the pipe to prevent leakage under the maximum anticipated thrust from internal abnormal operating conditions or test pressures from water or air.

### 303.6 BRANCH FITTINGS

Fittings for service branches in new construction shall be molded for 6 inch and 8 inch pipe and fabricated for 10 inch to 16 inch diameter with all gasketed connections. Clay/plastic pipe connections must be watertight. The contractor will be permitted to use fittings which include factory molded saddles and tees with alignment rings, and factory molded wyes. When connecting to an existing sewer main by means other than an existing wye or tee, one of the following methods shall be used:

- a) For PVC existing lines only, a sewer tap into the existing main shall be allowed. This would include a circular saw-cut of the sewer main by proper tools ("Shewer Tap" machine or similar) and proper installation of hub-wye saddle or hub-tee saddle. Holes for wye saddles shall be laid out with a template and shall be de-burred and carefully beveled where required to provide a smooth hole shaped to conform to the fitting.
- b) A typical connection would involve a PVC "T" fitting, another 1' (or more) extension of PVC pipe, depending on location of existing joint, the non-shear coupling and the existing clay or PVC pipe. With pipe cutter or appropriate equipment, neatly and accurately cut out desired length of pipe for insertion of proper fitting, using non-shear reinforced banded style repair coupling with 300 series stainless steel shear ring as manufactured Fernco, Inc. or Mission Rubber Company, Inc., or approved equal, connect the sewer pipes and maintain matching flow line elevations. All couplings shall bear the manufacturer's identifying mark and size.

The contractor shall provide details of direct connections to City interceptors greater than 18 inches in diameter and show construction procedure for protecting City structures.

All proposed bypass pumping of sanitary flow shall be approved by Public Works Director or his/her designee prior to performing this work.



### 304 INSPECTION AND TESTING

All projects shall be inspected and tested upon completion of installation. The City Engineer will designate the locations of tests and extent of the system to be tested, and extent of recording test results. Equipment for performing tests and making measurements shall be furnished by the contractor. Sections of sewer which fail to pass the tests shall have defects located and repaired or replaced and be retested until within the specified allowance

#### 304.1 MANHOLES

All manholes shall be thoroughly cleaned of dirt and debris and all visible leakage eliminated before final inspection and acceptance.

##### 304.1.1 VACUUM TESTING OF SANITARY MANHOLES

All manholes shall be tested for leakage by vacuum testing. A vacuum of 10 inches Hg shall be placed on the manhole and the time shall be measured for the vacuum to drop to 9 inches Hg. The vacuum shall not drop below 9 inch Hg for the time indicated for each size of manhole as shown in Table 300-2.

**TABLE 300-2  
REQUIREMENTS FOR MANHOLE VACUUM TESTING**

Manhole Diameter (inches)	Max. time for 9" Drop (seconds)
48	60
60	75
72	90
84	105

Any manholes that fail the test shall be sealed and re-tested until acceptable. The testing shall be done after backfilling. Leaks found shall be fixed externally unless approved by City Engineer. The manhole frame and adjusting rings shall be in place at finished grade prior to testing.

#### 304.2 FLEXIBLE PIPE

Prior to other tests all sanitary sewer pipes shall be cleaned and inspected for major defects. Pre-cleaning by appropriately sized sewer cleaning ball or by high velocity jet or other method shall be performed. Any debris, grit, etc. shall be removed and shall not be allowed to enter the existing system.

##### 304.2.1 VISUAL TEST

The City of Wood Dale requires that sewer lines be inspected visually to verify accuracy of alignment and freedom from debris and obstructions. The percentage of sewer lines inspected will be designated by the City Engineer. The full diameter of the pipe for straight alignments shall be visible when viewed between consecutive manholes. The method of test shall be either photography or closed circuit television, unless a specific method is required by the special provisions and approved by the City Engineer.

### 304.2.2 DEFLECTION TESTING

A mandrel test is required by the City of Wood Dale. The City Engineer shall randomly select portions of the project to be deflection tested. Such portions shall consist of the manhole intervals for the initial sewer construction up to 1,200 linear feet and not less than 20% of the remainder of the sewer project. The City of Wood Dale reserves the right to test more or less pipe if considered appropriate by the City Engineer.

The 5% deflection test for pipe sizes 6 inches to 18 inches in diameter is to be run using a nine-arm mandrel having a diameter equal to 95% of the inside diameter of the pipe as established in ASTM D-2241-96b. Table 300-3 was developed for various pipe sizes using the equations outlined in Section 31-1.11C of the Standard Specifications for Water and Sewer Main Construction in Illinois.

**TABLE 300-3  
REQUIRED MANDREL SIZE FOR SDR 26 PIPE  
(ASTM D2241)**

Nominal Pipe Size, Inches	Average Inside Diameter	Required Mandrel Size, Inches
6	6.08	5.68
8	7.92	7.38
10	9.87	9.23
12	11.71	10.98
14	12.86	12.02
16	14.70	13.65

#### TIME OF TESTING

The individual lines to be tested shall be tested no sooner than 30 days after they have been installed by the contractor. During the first year of implementation, additional testing may be performed by the City of Wood Dale.

#### SEQUENCE OF TESTING

Wherever possible and practical, the testing shall initiate at the downstream lines and proceed towards the upstream lines.

#### TESTING OF ENTIRE PROJECT

In the event that the deflection exceeds the 5% limit in 10% or more of the manhole intervals tested, the total sewer project shall be tested.

#### RETEST OF FAILED SECTIONS

Where deflection is found to be in excess of 5% of the base inside diameter, the contractor shall excavate to the point of excess deflection and carefully compact around the point where excess deflection was found. The line shall then be retested for deflection. However, if the deflected pipe fails to return to the original size (inside diameter) after the initial testing, the affected segment shall be replaced.

### 304.2.3 LEAKAGE TEST

Methods of test which are suitable for various conditions are low pressure air exfiltration or water exfiltration. Explicit instructions for the following methods of test will be supplied by the project design engineer. Plugs, caps, and branch connections must be secured against blow-off during leakage test.

#### AIR TESTING SAFETY

The contractor is required to follow OSHA rules for trench safety and confined space requirements.

#### PLUG RESTRAINT

All plugs shall be installed and braced in such a way that blowouts are prevented. Every plug shall be positively braced against the manhole walls, and no one shall be allowed in the manhole adjoining a line being tested so long as pressure is maintained in the line.

#### RELIEF VALVE

All pressurizing equipment used for low-pressure air testing shall include a regulator or relief valve set no higher than 9 psig to avoid over-pressurizing and displacing temporary or permanent plugs. As an added safety precaution pressure in the test section should be continuously monitored to make certain that it does not at any time exceed 9 psig.

#### PLUG DESIGN

Either mechanical or pneumatic plugs may be used. All plugs shall be designed to resist internal testing pressures without the aid of external bracing or blocking. However, the contractor shall internally restrain or externally brace the plugs to the manhole wall as an added safety precaution throughout the test.

#### SINGULAR CONTROL PANEL

To facilitate test verification by the City Engineer, all air used shall pass through a single, above ground control panel.

#### EQUIPMENT CONTROLS

The above ground air control equipment shall include a shut-off valve, pressure regulating valve, pressure relief valve, input pressure gauge, and a continuous monitoring pressure gauge having a pressure range from 0 to at least 10 psi. The continuous monitoring gauge shall be no less than 4 inches in diameter with minimum divisions of 0.10 psi and an accuracy of 0.04 psi.

#### SEPARATE HOSES

Two separate hoses shall be used to (1) connect the control panel to the sealed line for inducing low-pressure air, and (2) a separate hose connection for constant monitoring of air pressure build-up in the line. This requirement greatly diminishes any chance for over-pressurizing the line.

#### PNEUMATIC PLUGS

If pneumatic plugs are utilized, a separate hose shall also be required to inflate the pneumatic plugs from the above ground control panel.

### LINE PREPARATION - LATERALS, STUBS AND FITTINGS

During sewer construction, all service laterals, stubs, and fittings into the sewer test section shall be properly capped or plugged so as not to allow for air loss that could cause an erroneous air test result. It may be necessary and is always advisable to restrain gasketed caps, plugs, or short pipe lengths with bracing stakes, clamps and tie-rods, or wire harnesses over the pipe bells.

### PLUG INSTALLATION AND TESTING

After a manhole to manhole reach of pipe has been back-filled to final grade and prepared for testing, the plugs shall be placed in the line at each manhole and secured.

It is advisable to seal test all plugs before use. Seal testing may be accomplished by laying one length of pipe on the ground and sealing it at both ends with the plugs to be checked. The sealed pipe should be pressurized to 9 psig. No persons shall be allowed in the alignment of the pipe during plug testing.

It is required to plug the upstream end of the line first to prevent any upstream water from collecting in the test line.

When plugs are being placed, the pipe adjacent to the manhole shall be visually inspected to detect any evidence of shear in the pipe due to differential settlement between the pipe and the manhole.

### LINE PRESSURIZATION

Low pressure air shall be slowly introduced into the sealed line until the internal air pressure reaches 4.0 psig greater than the average back pressure of any ground water above the pipe, but not greater than 9.0 psig. If ground water is present, refer to 'Determination of Ground-Water Elevation and Air Pressure Adjustment'.

### PRESSURE STABILIZATION

After a constant pressure of 4.0 psig (greater than the average ground water back pressure), is reached, the air supply shall be throttled to maintain that internal pressure for at least 4 minutes. This time permits the temperature of the entering air to equalize with the temperature of the pipe wall.

### TIMING PRESSURE LOSS

When temperatures have been equalized and the pressure stabilized at 4.0 psig (greater than the average ground water back pressure), the air hose from the control panel to the air supply shall be shut off or disconnected. The continuous monitoring pressure gauge shall then be observed while the pressure is decreased to no less than 3.5 psig (greater than the average back pressure of any ground water over the pipe). At a reading of 3.5 psig, or any convenient observed pressure reading between 3.5 psig and 4.0 psig (greater than the average ground water back pressure), timing shall commence with a stop watch or other timing device that is at least 99.8% accurate.

#### DETERMINATION OF LINE ACCEPTANCE

If the time shown in Table 2, for the designated pipe size length (which includes main line sewers and laterals), is achieved before the air pressure drops 0.5 psig; the section undergoing test shall have passed and shall be presumed to be free of defects. The test may be discontinued once the prescribed time has elapsed even though the 0.5 psig drop has not occurred.

#### DETERMINATION OF LINE FAILURE

If the pressure drops 0.5 psig before the appropriate time shown in Table 3 has elapsed, the air loss rate shall be considered excessive and the section of pipe has failed the test.

#### LINE REPAIR OR REPLACEMENT

If the section fails to meet these requirements, the contractor shall determine at his own expense, the source or sources of leakage and he shall repair or replace all defective materials and/or workmanship to the satisfaction of the City Engineer. The extent and type of repair which may be allowed, as well as the results, shall be subject to the approval of the City Engineer. The completed pipe installation shall then be retested and required to meet the requirements of this test.

#### 304.2.4 LEAKAGE TESTING – ADJUSTMENTS FOR GROUND WATER

The requirements of this section shall only apply where ground water is known to exist or is anticipated above the sewer line to be tested.

#### AIR PRESSURE ADJUSTMENT

The air pressure correction, which must be added to the 3.5 psig normal testing starting pressure, shall be calculated by dividing the average vertical height, in feet of ground water above the invert of the sewer pipe to be tested, by 2.31. The result gives the air pressure correction in pounds per square inch to be added. (For example, if the average vertical height of ground water above the pipe invert is 2.8 feet the additional air pressure required would equal 2.8 divided by 2.31 or 1.2 psig. This would require a minimum starting pressure of 3.5 psig plus 1.2 psig or 4.7 psig.) The allowable pressure drop of 0.5 psig and the timing in Table 300-4 are not affected and shall remain the same.

#### MAXIMUM TEST PRESSURE

In no case should one starting test pressure exceed 9.0 psig. If the average vertical height of ground water above the pipe invert is more than 12.7 feet, the section so submerged may be tested using 9.0 psig as the starting test pressure.

#### SPECIFIED TIME TABLES

To facilitate the proper use of this required practice for air testing, Table 300-4 is provided. Table 300-4 contains specified minimum times required for a 0.5 psig pressure drop from a starting pressure of at least 3.5 psig greater than the average back pressure of any ground water above the pipe's invert.

**TABLE 300-4**

**SPECIFIED TIME REQUIRED FOR A 0.5 PSIG PRESSURE DROP  
FOR SIZE AND LENGTH OF PIPE INDICATED FOR Q = 0.0015**

(1) Pipe Dia. (in)	(2) Min. Time (min:sec)	(3) Length For Min. Time (ft)	(4) Time For Longer Length (sec)	Specification Time for Length (L) Shown (min:sec)								
				100 ft	150 ft	200 ft	250 ft	300 ft	350 ft	400 ft	450 ft	500 ft
4	1:53	597	0.190 L	1:53	1:53	1:53	1:53	1:53	1:53	1:53	1:53	1:53
6	2:50	398	0.427 L	2:50	2:50	2:50	2:50	2:50	2:50	2:51	3:12	3:34
8	3:47	298	0.760 L	3:47	3:47	3:47	3:47	3:48	4:26	5:04	5:42	6:20
10	4:43	239	1.187 L	4:43	4:43	4:43	4:57	5:56	6:55	7:54	8:54	9:54
12	5:40	199	1.709 L	5:40	5:40	5:42	7:08	8:33	9:58	11:24	12:50	14:15
15	7:05	159	2.671 L	7:05	7:05	8:54	11:08	13:21	15:35	17:48	20:02	22:16
18	8:30	133	3.846 L	8:30	9:37	12:49	16:01	19:14	22:26	25:38	28:51	32:03
21	9:55	114	5.235 L	9:55	13:05	17:27	21:49	26:11	30:32	34:54	39:16	43:38
24	11:20	99	6.837 L	11:24	17:57	22:48	28:30	34:11	39:53	45:35	51:17	56:59
27	12:45	88	8.653 L	14:25	21:38	28:51	36:04	43:16	50:30	57:42	46:54	72:07
30	14:10	80	10.683 L	17:48	26:43	35:37	44:31	53:25	62:19	71:13	80:07	89:02
33	15:35	72	12.926 L	21:33	32:19	43:56	53:52	64:38	75:24	86:10	96:57	107:43
36	17:00	66	15.384 L	25:39	38:28	51:17	64:06	76:55	89:44	102:34	115:23	128:12

**SECTION 400:  
WATER DISTRIBUTION SYSTEM**

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## **401 GENERAL**

The standards and requirements found in this article are for materials and construction of water mains within the City of Wood Dale, Illinois.

### **401.1 SPECIFICATIONS**

These specifications cover pipe and fittings and items normally used for water distribution systems. Special considerations will be covered in the plans and special provisions. Water distribution systems shall be constructed in accordance with the "Standard Specifications for Water and Sewer Main Construction in Illinois", latest edition, except as modified herein. In cases of conflict between standards, the more restrictive standard shall apply, as determined by the City Engineer.

### **401.2 START OF CONSTRUCTION**

The contractor shall not begin construction until all required permits have been obtained. Copies of all permits obtained by outside agencies must be provided to the City prior to the start of construction.

### **401.3 CONNECTION TO EXISTING WATER MAINS**

Connections to all City water mains must be by pressure tap or with the use of linestop(s) unless otherwise approved by the City Engineer, as shown on the approved engineering plans.

#### **401.3.1 NOTIFICATION**

When connecting to the end of an existing line, work must be coordinated with the Department of Public Works with 48 hours' notice. Personnel from the Department of Public Works are the only ones who are to operate water main valves. When water is needed to chlorinate new lines from adjacent City mains which are in service, Department of Public Works personnel must be present to operate or witness the contractor operation of existing City valves.

A representative from the Department of Public Works must be present at all connections to existing water mains. New water main valves, including pressure tap valves, adjacent to an existing water main, and existing water main valves shall only be operated by the City of Wood Dale, Department of Public Works personnel with 48-hour notice (Monday-Friday). 630-350-3530.

### **401.4 UTILITY IDENTIFICATION**

A wood 4 inch by 4 inch by 6 foot stake with not less than the top 2 feet painted blue shall be installed next to each water vault, buffalo box, and valve box for protection of that appurtenance. The stake shall be maintained in a plumb position.

When newly poured curbs are installed, the contractor shall use a city approved stamp to indent the wet concrete with a "W" to identify the location of each water vault, buffalo box, and valve box. The letter "W" will be indented at the top of the curb 1-1/2 inches to 2 inches in height and width and at a depth of 3/8 inch. In areas where new curbs are not present or if the developer and/or the contractor fail to indent the curbs as outlined above, the City will then require that identification symbols as approved by the City Engineer be cut into the curb.

#### 401.5 AS-BUILTS

Upon completion of work, the contractor shall provide as-built locations of all water main, valves, line stops, curb stops, and hydrants in conformance with the requirements of Section 110 of the Wood Dale Standards Specifications.

## 402 MATERIALS

Specific references made herein for manufactured materials such as pipe, hydrants, valves and fittings refer to designations for American Water Works Association (AWWA) or to the American National Standards Institute (ANSI). Nothing herein shall constitute or imply an endorsement by the City of Wood Dale of any one material over another.

### 401.3 DUCTILE IRON PIPE

Ductile Iron pipe shall conform to ANSI/AWWA C151/A21.5-02 (or latest edition). The minimum thickness designation shall be Class 52. Casting, marking, testing, etc. shall be provided in accordance with applicable ANSI or AWWA standards. Cement lining shall be provided in accordance with ANSI/AWWA C104/A21.4-03 (or latest edition).

### 401.4 PIPE FITTINGS

All cast and ductile iron fittings shall conform to the latest ANSI/AWWA C110/A21.10-03 (or latest edition) for short body, cast and ductile iron fittings, 3 inches to 48 inches in diameter. Ductile iron compact fittings 3 inches to 24 inches in diameter shall be in accordance with ANSI/AWWA C153/A21.53-00 (or latest edition) and be Made in the USA.

### 401.5 JOINTS

Joints for ductile iron pipe shall consist of one of the two following types unless otherwise provided in the special provisions:

- a) Mechanical Joints with stainless steel nuts, bolts and washers, Type 304 or better.
- b) Push-On Rubber Gasket Joints: AWWA C600-99 (or latest edition). Gaskets for water main located within 100 feet of a vehicle fueling facility shall be Buna N or Fluorocarbon rubber.

### 401.6 RETAINER GLANDS

For use on ductile iron pipe conforming to ANSI/AWWA C151/A21.51-02, nominal pipe sizes 3 inches through 48 inches, mechanical joint wedge action retainer glands shall be used as required to restrain valves, fittings, hydrants, and pipe joints. The retainer glands shall be:

- a) MEGALUG 1100 Series as manufactured by EBAA IRON, INC., or
- b) Uni-Flange Blockbuster 1400 Series from Ford Meter Box Co., or approved equal

Existing ductile iron systems requiring restraint shall be Series 1100SD (split MEGALUG) for mechanical joints. Restraint system for restraining push-on pipe bells shall be MEGALUG Series 1100HD, or FORD Series 1390. All nuts, bolts and washers shall be stainless steel, Type 304 or better.

**401.7 CASING PIPES**

Casing pipe shall be steel with a wall thickness as shown in Table 400-1. It shall be bituminous coated, a minimum of 30 mils thickness inside and out, and shall be of leak proof construction, capable of withstanding the anticipated loadings. The steel casing pipe shall have minimum yield strength of 35,000 psi and shall meet the requirements of A139/A139M-04 (or latest edition), Grade B. Ring deflection shall not exceed 2% of the nominal diameter. The steel casing pipe shall be delivered to the jobsite with beveled ends to facilitate field welding.

**TABLE 400-1  
STEEL CASING PIPE WALL THICKNESS**

Casing Diameter	Minimum Wall Thickness (inches)
20" and 22"	0.344
24"	0.375
28"	0.438
30"	0.469
32"	0.501
34" and 36"	0.532

**402.6 PIPE BEDDING**

The material used for pipe bedding shall consist of gravel, crushed gravel, or crushed stone conforming to the requirements of Article 1004.01 of the "Standard Specifications for Road and Bridge Construction", prepared by the Illinois Department of Transportation. The gradation shall conform to gradation CA-7 or CA-11 of the Standard Specifications.

**402.7 PIPE WRAP**

The polyethylene film utilized for pipe wrap shall be in accordance ANSI/AWWA C105/A21.5- 99 (or latest edition). The film shall have a minimum thickness of 0.008 inch (8 mils). The minus tolerance of thickness shall not exceed 10 percent (10%) of the nominal thickness. The tube size or sheet width shall be as shown in Table 400-2.

**TABLE 400-2 PIPE  
WRAP SIZE**

Nominal Pipe Diameter	Flat Tube (inches)	Sheet Width (inches)
3"	14	28
4"	16	32
6"	20	40
8"	24	48
10"	27	54
12"	30	60
14"	34	68
16"	37	74
18"	41	82
20"	45	90
24"	54	108

## 402.8 VALVES

### 402.8.1 MANUFACTURER AND MARKING

All valves shall be standard pattern and shall have the name or mark of the manufacturer, size and working pressure plainly cast in raised letters on the valve body. Valves may be approved from one of the following manufacturers: Mueller or Clow.

### 402.8.2 TYPE AND MOUNTING

- a) The valve bodies shall be cast or ductile iron, mounted with approved non-corrosive metals. All wearing surfaces shall be of approved non-corrosive material.
- b) All valves shall be resilient wedge gate valves with non-rising stems with upper and lower thrust collars. Waterways shall be smooth and have no groove or depression where foreign material can lodge and prevent sealing. The stem shall be bronze or other approved non-corrosive metal. All valves shall open by turning counterclockwise. Resilient wedge gate valves shall meet the standards of AWWA C509-01 or AWWA C515-01 (or latest edition) being made by either Mueller or Clow.
- c) All nuts, bolts and washers shall be stainless steel, Type 304 or better.
- d) End Connections - End connections of all valves shall be the mechanical joint type.

### 402.8.3 VALVE STEM SEALS

Unless otherwise designated in the special provisions, all valves shall be furnished with O- Ring Stem Seals. Number, size and design shall conform to the AWWA Standard for R/W valve O-Ring Stem Seals.

### 402.8.4 WRENCH NUTS

Wrench nuts shall be made of cast iron and shall be 1-15/16 inches square at the top, 2 inches square at the base, 1-3/4 inches high, unless otherwise designated in the Special Provisions. Nuts shall have a flanged base upon which shall be cast an arrow at least 2 inches long showing the direction of the opening. The word "open" in 1/2 inch or larger letters shall be cast on the nut to clearly indicate the direction of opening the valve. All operating nuts shall be accessible from above grade with use of an operating key.

### 402.8.5 FACTORY TESTING

Each valve shall be tested at the factory for performance and operation prior to painting. Each 3 inch to 20 inch R/W valve shall be subjected to a hydrostatic pressure test per AWWA C509- 01 or AWWA C515-01 (or latest edition).

### 402.8.6 FACTORY COATINGS

After the factory test and inspection, all ferrous parts of the valves except finished or bearing surfaces shall have a fusion bonded epoxy coating which complies with AWWA C550-05 (or latest edition).

#### 402.9 TAPPING AND LINE STOP SLEEVES

Tapping sleeve shall be made of ductile iron. All approved stainless steel heavy-duty tapping sleeves shall be Cascade CST-EX, Ford FTSS, or Romac Industries SST III. All nuts, bolts and washers shall be stainless steel, Type 304 or better.

Line stop sleeves shall be stainless steel. Approved sleeve is Severn Trent Premier line stop fitting of all stainless steel construction with drop-in bolt option. All bolts, nuts, washers and blind flanges are to be 18- 8 Type 304 Stainless. Stopple (completion) plug is to be ductile iron.

All tapping and line stop sleeves shall conform to the following:

- a) Sleeve to be pressure rated at 150 psi working pressure and 225 psi test pressure.
- b) Construction to be T-304, 18-8 stainless steel, 14 gauge minimum.
- c) Gaskets to provide 360 degree pipe coverage in addition to a full circumference branch seal gasket.
- d) A stainless steel test port and plug shall be provided and the sleeve installation shall be tested prior to cutting the existing pipe.
- e) V-lugs shall be fabricated to the sleeve and drop-in stainless steel bolts, nuts and washers provided. Nuts shall be coated to prevent galling.

#### 402.10 INSERT VALVES

##### 402.10.1 DOUBLE DISC INSERT GATE VALVE

The materials, internal design, construction, workmanship, and manufacture's tests of insert valves shall conform to AWWA Standard C-500-02 or the latest revision, as modified by the following:

- a) Valves shall be of a ductile iron body, bronze-mounted, non-rising stem, double non-revolving disc, parallel seat, and side wedging construction.
- b) All grey-iron castings shall conform to the requirements of ASTM Specification A126 Class B (31,000 psi minimum tensile strength), or the latest revision.
- c) All nuts, bolts and washers shall be stainless steel, Type 304 or better.
- d) Valve stems shall be cast, forged or rolled bonze, and free from defects.
- e) Valves shall have a mechanical joint bell end, one bell being larger than normal to accept the inserting sleeve. Bells shall contain elastomeric gaskets permanently attached in a plane perpendicular to the centerline of the bore.
- f) Valves shall be rated at 150 psig test with 80 psig working water pressure.
- g) No bypass will be required.

- h) Valves shall open to the left or counter-clockwise.
- i) Valve stem seals shall consist of conventional stuffing boxes, or “O-ring type” seals. Gland bolts and nuts shall be of the same quality bronze as the valve stems.
- j) Insert Sleeve- Each insert valve shall be provided with a split sleeve of the stuffing box type. Said sleeve shall have a bell mechanical outlet outboard of the valve for sealing to the conduit.
- k) The Contractor shall submit three copies of all drawings, furnished by the manufacture, fully and distinctly illustrating and describing the insert valve and sleeve proposed to be furnished.
- l) Double disk insert gate valve to be U.S. Pipe, or approved equal.

#### 402.10.2 RESILIENT TYPE INSERT GATE VALVE

Valve shall be as manufactured by Occlude with material that meets and/or exceeds the AWWA C509-01 or AWWA C515-01 (or latest edition) valve specification. All nuts, bolts and washers shall be stainless steel, Type 304 or better.

#### 402.11 CURB STOPS

Curb stops shall be compression type by Mueller or Ford.

#### 402.12 CURB BOXES

Curb boxes (B-Boxes) shall be Minneapolis pattern base of Mueller -10302 or A.Y. McDonald 3623 MCD Tapped base of 2” including bushing. 1 1/2 inch I.D. box for a 1 inch curb stop, and a 1- 1/4 inch I.D. curb box for a 1-1/2 inch curb stop or larger. One inch curb boxes shall have a 1 inch threaded brass pentagon plug with the word “WATER” in raised letters on the cap (1- 1/2 inch curb boxes shall have a 1-1/2 inch plug).

#### 402.13 VALVE BOXES

Valve boxes/lids shall be Tyler or Bingham and Taylor, two-piece with drop lid, 6850 series (screw type, 5-1/4 inch shafts), or approved equal. Valve boxes and extensions must be cast iron and conform to the requirements of Standard Specifications for Gray Iron Castings, ASTM Designation A-48.

#### 402.14 VALVE VAULTS

Valve vaults shall be constructed of precast concrete units in accordance with ASTM C478-05 (or latest edition) and Section 32 of the "Standard Specifications for Water and Sewer Main Construction in Illinois," and shall follow the City of Wood Dale standards. All valve vaults shall be water-tight. All visible leaks shall be sealed in a manner acceptable to the City Engineer.

##### 402.14.1 FRAME AND COVER

- a) Valve Vaults shall be furnished with a self-sealing frame and slotted cover (Heavy Duty Neenah Foundry R-1772, Heavy Duty East Jordan Iron Works 1022-Z3 or approved equal). Pick holes shall not create openings through the vault cover.

- b) The word "WATER" shall be imprinted on the cover in raised letters.
- c) Frames and lids shall meet or exceed AASHTO H-20 loading specifications.
- d) Frames shall be shop painted with asphaltic base paint.
- e) Both the vault frame and cover shall have machined horizontal and vertical bearing surfaces.

402.15 FIRE HYDRANTS

- a) All fire hydrants shall have 5-1/4 inch valve opening.
- b) All materials used in the production of fire hydrants for ordinary service shall conform to the specifications designated for each material listed in AWWA Standard C502-05 (or latest edition).
- c) The hydrant shall be Mueller A-423 5- 1/4 inch valve opening, or Clow Medallion 5-1/4 inch valve opening and of a pattern approved by the City Engineer. The seat must be of bronze to bronze. The name or mark of the manufacturer and size of the valve opening shall be plainly cast in raised letters and so placed on the hydrant barrel as to be visible after the hydrant has been installed.
- d) Lugs, if required for harnessing the hydrant to the connection pipe from the main in the street, shall be provided on the bell of the elbow or on the hydrant bottom casting. A drawing of the lug construction shall be submitted for approval, on request of the City Engineer.
- e) Hydrants shall be breakaway/traffic style. Breaking devices shall be at the breakaway flange which will allow the hydrant barrel to separate at this point with a minimum breakage of hydrant parts in case of damage. There shall also be provided at this point, a safety stem coupling on the operating stem that will shear at the time of impact. Unless otherwise specified, all hydrants shall be equipped with O-ring stem seals. The breakaway flange is to be just above the proposed ground level per manufacturer specifications.
- f) Hydrant cap chains and chain hooks are not to be installed on hydrant. If any chains and chain hooks have been installed, they shall be removed prior to final acceptance.
- g) The dimensions and details of hydrants and nozzles, unless otherwise noted, shall be as follows:

Hydrant connection pipe size inside diameter:	6 inches
Standpipe minimum inside diameter:	6 inches
Length of hydrant from bottom of hydrant connection to breakaway flange:	5-1/2 foot bury depth min.
Valve opening diameter:	5-1/4 inches
Size of auxiliary gate valve:	6 inches
Hose nozzles, number and size:	Two 2-1/2 inch & one 4-1/2 inch

Hydrant 6" Connection Thread Details:



Steamer Nozzles:	National Standard Hose Thread
Diameter at root of thread:	National Standard Hose Thread
Pattern of thread:	National Standard Hose Thread
Total length of threaded male nipple:	National Standard Hose Thread

- h) All nozzles shall be fitted with cast iron threaded caps with operating nut of the same design and proportions as the hydrant stem nut. Caps shall be threaded to fit the corresponding nozzles and shall be fitted with suitable gaskets for positive water tightness under test pressures.
- i) All nuts, bolts and washers shall be stainless steel, Type 304 or better.
- j) The operating nuts on hydrant stem and nozzle caps shall be the same for all sizes of hydrants. Dimensions shall be as follows:
  - 1) Pattern of Nut: Pentagonal
  - 2) Height: 1-1/16 inch
  - 3) Size of Pentagon: 1.35 inch at bottom of nut 1.23 inch at top of nut measured from point to flat
- k) The hydrant valve shall open by turning to the left (counterclockwise).

402.15.2 FACTORY TESTING

Before the hydrant is painted at the factory, it shall be subjected to a minimum hydrostatic test of 300 pounds per square inch with the hydrant valve in a closed position and again with the hydrant valve in an open position

402.15.3 PAINTING

All iron parts of the hydrant, both inside and outside shall be thoroughly cleaned and thereafter painted with one coat of paint of a durable composition, and two additional exterior coats of Tnemec-Gloss Safety Red (#69HT) per National fire code specifications (final coat shall be applied after installation).

## **403 CONSTRUCTION REQUIRMENTS**

### **403.1 GENERAL REQUIREMENTS**

#### **403.1.1 RESPONSIBILITY FOR MATERIALS**

The contractor shall be responsible for the acceptability and storage of all materials furnished by him and shall assume responsibility for the replacement of all such material found damaged in shipping or on job site or defective in manufacture. This shall include the furnishing of all material and labor required for the replacement of installed material discovered to be defective prior to the final acceptance of the work.

#### **403.1.2 HANDLING OF PIPE MATERIAL**

All types of pipe shall be handled in such a manner as will prevent damage to the pipe or coating. Damaged pipe and other accessories shall be rejected and replaced to the satisfaction of the City Engineer. The methods of handling shall be corrected to prevent further damage when called to the attention of the contractor. The pipe and fittings shall be inspected by the contractor for defects while suspended above grade.

Dirt or other foreign material shall be prevented from entering the pipe or pipe joint during handling or laying operations and any pipe or fitting that has been installed with dirt or foreign material in it shall be thoroughly cleaned. At times when pipe laying is not in progress, and at the end of each working day, the open ends of the pipe shall be closed by a water tight plug to ensure absolute cleanliness inside the pipe. The plugs shall not be removed until the trench has been dewatered to the satisfaction of the City Engineer.

### **403.2 PIPE INSTALLATION**

Pipe shall be installed in accordance with ANSI/AWWA Standard C600-99 (or latest edition), except as modified herein.

#### **403.2.1 EXCAVATION AND BACKFILL**

Excavation and backfill for water mains shall conform to the provisions of Section 20, 21 and 22 of the Standard Specifications for Water Sewer Main Construction in Illinois, latest edition, except as modified herein.

#### **403.2.2 DEPTH OF PIPE COVER**

Unless otherwise shown on the plans or indicated in the Special Provisions, all pipe shall be installed with a minimum of 5 feet of ground cover, measured from the proposed grade to the top of the pipe. In areas subject to subsequent excavation or fill, the mains shall be laid to the grades shown on the plans.

#### **403.2.3 PIPE BEDDING**

The trench shall have a flat bottom conforming to the grade to which the pipe is laid. The pipe shall be laid on sound aggregate bedding, no less than 4 inches in depth, true to grade and shall have a firm bearing for the full length of pipe. Any part of the trench excavated below grade shall be corrected with trench backfill material and thoroughly compacted.

#### 403.2.4 DEWATERING OF TRENCH

Where water is encountered in the trench, the water shall be removed during pipe laying and jointing operations. Provisions shall be made to prevent floating of the pipe. Trench water shall not be allowed to enter the pipe at any time.

#### 403.2.5 LAYING OF PIPE ON CURVES

Long radius curves, either horizontal or vertical, may be laid with standard pipe by deflections at the joints. The maximum deflections at pipe joints and laying radius for various pipe lengths are as found in the following standards, but at no time shall the deflection of the pipe joints exceed the manufacturer's maximum recommended deflection:

- a) Ductile Iron Pipe Mechanical Joints: AWWA C600-99 (or latest edition)
- b) Ductile Iron Pipe Push-On Joints: AWWA C600-99 (or latest edition)

Where field conditions require deflection of pipe not shown on the plans, the City Engineer must give prior approval of the methods to be used.

#### 403.2.6 MECHANICAL JOINTS

- a) Jointing procedures shall be in accordance with AWWA C600-99 (or latest edition). The outside of the spigot and the inside of the bell shall be cleaned. Lubrication and additional cleaning shall be provided by brushing both the gasket and plain end with an approved pipe lubricant meeting the requirements of ANSI/AWWA C111/A21.11-00 (or latest edition) just prior to slipping gasket onto the plain end for joint assembly. The gland shall be placed on the plain end with the lip extension toward the plain end, followed by the gasket with the narrow edge of the gasket toward the plain end.
- b) The pipe shall be inserted into the socket and the gasket shall be pressed firmly and evenly into the gasket recess. The joint shall be kept straight during assembly.
- c) The gland shall be pushed toward the socket and centered around the pipe with the gland lip against the gasket. The bolts shall be inserted and the nuts hand tightened.
- d) The bolts shall be tightened to the normal range of bolt torque as specified in AWWA C600-99 (or latest edition) which is 75-90 ft-lbs for pipes 4 inches to 24 inches, while at all times maintaining approximately the same distance between the gland and the face of the flange at all points around the socket.
- e) Nuts spaced 180 degrees shall be tightened alternately in order to produce an equal pressure on all parts of the gland.

#### 403.2.7 PUSH-ON JOINTS

- a) Jointing procedures shall be in accordance with AWWA C600-99 (or latest edition). The inside of the bell shall be thoroughly cleaned to remove all foreign matter from the joint. The circular rubber gasket shall be inserted in the gasket seat provided.
- b) A thin film of approved gasket lubricant shall be applied to the inside surface of the gasket. Gasket lubricant shall be a solution of vegetable soap or other solution supplied by the pipe manufacturer and approved by the City Engineer. The lubricant shall be approved for use with potable water. The spigot end of the pipe shall be cleaned and entered into the rubber gasket in the bell, using care to keep the joint from contacting the ground. The joint shall then be completed by forcing the plain end to the seat of the bell. Care must be taken not to damage exterior coating or interior linings while forcing the joint. A timber header or other suitable means shall be used to push the pipe “home” to avoid damage.
- c) Field-cut pipe lengths shall be beveled to avoid damage to the gasket and facilitate making the joint.
- d) All pipe shall be furnished with a depth mark to assure that the spigot end is inserted to the full depth of the joint.

#### 403.2.8 INSTALLING PIPE THROUGH CASINGS

This work shall be in conformance with Section 20-2.19 of the Standard Specifications for Water and Sewer Main Construction in Illinois, except as modified herein. Encasements for pipes under highways or railroads shall conform to the requirements of the City of Wood Dale, or the owner of the highway or railroad. Manufactured non-metallic or non-corrosive casing spacers, adjustable runners, or cradles shall be used to support the pipe in the casing and shall be installed per manufacturer’s recommendations. A minimum of two supports shall be used per joint of pipe for lengths up to 12-1/2 feet, and a minimum of three supports shall be used per joint for lengths greater than 12-1/2 feet. The annular space shall be filled with pea gravel, low-strength grout, or cellular foam concrete and provisions shall be made so that no voids are left. The Contractor shall make arrangements to have a City of Wood Dale representative witness the annular spacing filling operations.

#### 403.2.9 CORROSION PROTECTION - POLYETHYLENE ENCASEMENT

Polyethylene encasement is required for all underground installations of gray, ductile and cast iron pipe and other related appurtenances or water main. Polyethylene encasement shall be required unless a soils report submitted to the City by the Ductile Iron Pipe Research Association indicates that the soils in the area are not corrosive to iron pipe. Should corrosive soils be encountered during the installation of the pipe, then the pipe shall be encased in polyethylene wrap.

Installation shall be in accordance with ANSI/AWWA C105/A21.5-99 (or latest edition). The polyethylene encasement shall prevent contact between the pipe and the surrounding backfill and bedding material but is not intended to be a completely air and water tight enclosure

Overlaps shall be secured by the use of approved adhesive tape, plastic string, or other material capable of holding the polyethylene encasement in place until backfilling operations are completed.

Three different methods for the installation of polyethylene encasement on pipe are acceptable. Methods A and B are for use with polyethylene tubes and method C for use with polyethylene sheets.

a) Method A

Cut the polyethylene tube to a length approximately two feet longer than that of the pipe section. Slip the tube around the pipe, centering it to provide a one foot overlap on each adjacent pipe section, and bunching it accordion fashion length-wise until it clears the pipe ends.

Lower the pipe into the trench and make up the pipe joint with the preceding section of pipe. A shallow bell hole must be made at joints to facilitate installation to the polyethylene tube.

After assembling the pipe joint, make the overlap of the polyethylene tube. Pull the bunched polyethylene from the preceding length of pipe, slip it over the end of the new length of pipe and secure in place. Then slip the end of the polyethylene from the new pipe section over the end of the first wrap until it overlaps the joint at the end of the preceding length of pipe.

Secure the overlap in place. Take up the slack width to make a snug, but not tight, fit along the barrel of the pipe, securing the fold at quarter points.

Repair any rips, punctures, or other damage to the polyethylene with adhesive tape or with a short length of polyethylene tube cut open, wrapped around the pipe and secured in place. Proceed with installation of the next section of pipe in the same manner.

b) Method B

Cut the polyethylene tube to a length approximately one foot shorter than that of the pipe section. Slip the tube around the pipe, centering it to provide six inches of bare pipe at each end. Make the polyethylene snug, but not tight; secure ends as described in Method A.

Before making up a joint, slip a three foot length of polyethylene tube over the end of the preceding pipe section, bunching it accordion fashion lengthwise. After completing the joint, pull the three foot length of polyethylene over the joint, overlapping the polyethylene previously installed on each adjacent section of pipe by at least one foot. Make the polyethylene snug and secure each end as described in Method A.

Repair any rips, punctures, or other damage to the polyethylene. Proceed with installation of the next section of pipe in the same manner.

c) Method C

Cut the polyethylene sheet to a length approximately two feet longer than that of the pipe section. Center the cut length to provide a one foot overlap on each adjacent pipe section, bunching it until it clears the pipe ends. Wrap the polyethylene around the pipe so that it circumventially overlaps the top quadrant of the pipe. Secure the cut edge of polyethylene sheet at intervals of approximately three feet.

Lower the wrapped pipe into the trench and create the pipe joint with the preceding section of pipe. A shallow bell hole must be made at joints to facilitate installation of the polyethylene. After completing the joint, make the overlap as described above.

Repair any rips, punctures or other damage to the polyethylene. Proceed with installation of the next section in the same manner.

Cover bends, reducers, offsets, and other pipe-shaped appurtenances with polyethylene in the same manner as the pipe. When valves, tees, crosses, and other odd-shaped pieces cannot be wrapped practically in a tube, wrap with a flat sheet or split length of polyethylene tube by passing the sheet under the appurtenance and bringing it up around the body. Make seams by bringing the edges together, folding over twice, and taping down. Handle width and overlaps at joints as described above. Tape polyethylene securely in place at valve stem and other penetrations.

#### 403.3 VALVES

The minimum requirements for all valves shall, in design, material and workmanship, conform to AWWA C509-01 or AWWA C515-01 (or latest editions).

All valves shall be inspected upon delivery in the field to insure proper working order before installation. They shall be set and jointed to the pipe in the manner as set forth in the AWWA Standards for the type of connection ends furnished.

The valves shall be suitable for ordinary water works service and intended to be installed in a normal position on buried pipe lines or water distribution systems.

All valves shall be provided with a standard valve chamber so arranged that no shock will be transmitted to the valve and the box or vault opening shall be centered over the operation nut, and the cast iron cover shall be set flush with the road bed or finished surface.

#### 403.4 TAPPING AND LINE STOP SLEEVES

Pressure tap connections shall be made in accordance with Standard Details and in accordance with Section 46 of the Standard Specifications for Water and Sewer Main Construction in Illinois.

Tapping sleeves of stainless steel shall not be used for "size on size" installations nor on water mains larger than 12 inches in size.

The outside surface of the existing main and the inner face of the tapping sleeve shall be disinfected with a 1 % chlorine solution.

#### 403.5 INSERT VALVES

Insert valves shall be furnished with flanged inlet and connections having a machined projection on the flanges to mate with a machined recess on the outlet flanges of the tapping sleeves and crosses.

Insert valves shall be furnished for and installed in a horizontal conduit with the valve stem plumb over the center line of the pipe.

#### 403.6 CURB BOXES

Curb boxes shall be capable of extensions and installed to finished grade, and shall conform to the depth of bury of the service line as provided in the Wood Dale Standard Water Detail 1. "Pigtails" on customer side of curb stop are not allowed.

#### 403.7 VALVE BOXES

Adjustable cast iron valve boxes shall be set to position during backfilling operations so they will be in a vertical alignment to the valve operating stem. The lower casting of the unit shall be installed first in such a manner as to be cushioned and to not rest directly upon the body of the R/W valve or upon the water main. The upper casting of the unit shall then be placed in proper alignment into such an elevation that its top will be at final grade. Backfilling around both units shall be placed and compacted to the satisfaction of the Engineer. Valve boxes must be free of debris, centered over operating nut and easily key-able.

#### 403.8 VALVE VAULTS

Seal tight valve vaults shall be pre-cast with a minimum diameter of 48 inches for valve sizes 6" and 8". On valves larger than 8" and pressure connections, vaults shall be a minimum of 60 inches with eccentric cones installed so that the opening of the cone is placed as close to the centerline of the operation as possible.

A butyl mastic material (CONSEAL CS-102B or equal approved by the City Engineer) shall be used to provide a watertight seal between vault barrel sections, cone to barrel section, and the cone section to frame and cover.

Rubber boots/seals must be used where pipes enter manholes to provide a watertight connection where pipe enters. Elastomeric boots shall conform to ASTM C923-02 and ASTM A167-99(2004), or latest edition with stainless steel bands as manufactured by KOR-N-SEAL by NPC, PSX by Press-Seal Gasket Corporation or approved equal.

Vault frames shall be adjusted to proper grade utilizing reinforced precast concrete rings; brick or concrete blocks will not be allowed. Tapered composite adjusting rings, as approved by City Engineer, shall be required when the frame will be within a roadway area. Final frame adjustment for vaults within the roadway area shall be in accordance with Sections 602 and 603 of Standard Specifications for Road and Bridge Construction, prepared by the Illinois Department of Transportation, latest edition.

Adjusting rings shall be securely sealed to the cone section or top barrel section of the vault using resilient, flexible, non-hardening preformed butyl mastic material (CONSEAL CS-102B or an equal approved by the City Engineer). This mastic shall be applied in such a manner that no surface water or ground water inflow can enter the vault through gaps between the top barrel section or cone section and the first adjusting ring, between adjusting rings, or between the last adjusting ring and the vault frame. Up to 12 inches of adjusting rings may be installed on a given vault; however, no more than one 2 inch adjusting ring and no more than two rings in total shall be used.

#### 403.9 FIRE HYDRANTS

These specifications are to be used in conjunction with the AWWA Standard C502-05 (or latest edition) for fire hydrants for ordinary water works service. Fire hydrants shall be installed at the locations shown on the approved engineering plans.

Hydrants shall be plumb and shall be set so that the center of the hydrant port is a minimum of 18 inches to a maximum of 24 inches above the surrounding finished grade ensuring the breakaway flange at proper ground height. All hydrants shall be inspected in the field upon delivery to the job to ensure proper operation before installation. A minimum of 1/4 cubic yard of washed coarse stone shall be placed at and around the base of the hydrant to ensure proper drainage of the hydrant after use. The blocking of the hydrant shall consist of a wedge of Portland cement concrete of not less than 1/4 cubic yard extending from the hydrant to undisturbed soil and shall be so placed to form a barrier adjacent to the hydrant base top to counteract the pressure of water exerted thereon. Care shall be taken to insure that weep holes are not covered by concrete. The hydrant shall be set on a concrete block to ensure a firm bearing for the hydrant base. The hydrant valve and tee shall be interconnected by stainless steel rods or approved retainer glands. Locking or restrained fittings may be substituted only after prior approval from the City Engineer. The resetting of existing hydrants and moving and reconnection of existing hydrants shall be handled in a manner similar to the new installation. Auxiliary valve shall be installed a minimum of 18 inches from the face of the hydrant. The contractor shall rotate and/or adjust the hydrants to the satisfaction of the department of Public Utilities. The hydrant settings shall follow the Wood Dale Standard Detail Water 2.

Fire hydrant should be bagged "NOT IN SERVICE" until all testing and disinfection has been completed and the new water main section is service.

#### 403.10 THRUST BLOCKING AND TIE RODS

- a) Blocking to prevent movement of lines under pressure at bends, tees, caps, valves (including inside vaults) and hydrants shall be Portland cement concrete, a minimum of 12 inches thick, placed between solid ground and the fittings (see Wood Dale Standard Water Detail 6) and shall be anchored in such a manner that pipe and fitting joints will be accessible for repairs. The Portland cement concrete shall meet or exceed a compressive strength of 3500 psi after 28 days. Thrust blocks may be precast or cast-in-place.
- b) All bends of 11-1/4 degrees or greater, and all tees, crosses and plugs shall be thrust protected to prevent movement of the lines under pressure as shown on the plans.
- c) Where unstable soil and/or backfill conditions exist, it may be necessary to install thrust blocking at deflected sections as well as at fittings. If required by the City Engineer, deflection blocking shall be installed at a point approximately 1/5th of the pipe length each side of the coupling. Couplings/sleeves shall be restrained with approved retainer glands.
- d) Tie rods shall be 5/8 inch diameter (minimum) stainless steel, grade 304. Eyebolts shall be high strength, low alloy steel.
- e) Where conditions prevent the use of concrete thrust blocks, tied joints or restrained joints of a type approved by the City Engineer shall be used.

#### 403.11 RETAINER GLANDS

The contractor may elect to use mechanical joint wedge action retainer glands in lieu of tie-rods. Installation shall be per manufacturers' recommended procedures, including length and/or number of joints to be restrained. Tied or restrained joints shall extend a minimum of two full pipe lengths back from the fitting. And shall utilize MEGALUG Series 1100 materials.



Note: Thrust blocking shall be required behind fire hydrant assemblies in addition to the use of retainer glands and/or tie rods. The use of set screw type retainer glands shall not be permitted for use within the City of Wood Dale.

Use of approved retainer glands does not eliminate the need for thrust blocking at fittings and valves unless approved by the Department of Public Utilities after review of the appropriate supporting calculations.

## 404 INSPECTION AND TESTING

### 404.1 GENERAL INFORMATION

When extending an existing line, the contractor must chlorinate and pressure test both new and valved sections of existing lines in accordance with City standards.

For fire lines to buildings, the permanent valve must be in place prior to disinfection and sampling.

### 404.2 TESTING FOR TAPPING SLEEVES AND INSERT VALVES

Before a tapping sleeve is installed, the exterior of the main to be tapped, as well as the interior surface of the sleeve, shall be thoroughly cleaned and swabbed with a 1 percent hypochlorite solution.

After the surface disinfection, the tapping saddle or sleeve shall be mounted to the main and tapping valve to form a pressure-tight connection. The installation shall be pressure tested at operating pressure plus 50 percent, to insure the integrity of the installation. This shall be a hydrostatic test, introduced through a port on the tapping machine, or through a tapped mechanical joint plug on the outlet side of the tapping valve. The tapping machine and the tapping valve and sleeve assembly shall be externally supported so that no additional weight is placed upon the main(s).

Prior to installation, the insert valve shall be operated in the position that it will assume in service and for the full length of gate travel in both directions to demonstrate the free and perfect functioning of all parts in the intended manner. Any defects of workmanship shall be corrected and tested repeated until satisfactory performance is demonstrated.

### 404.3 PRESSURE TESTING

All newly laid water mains shall be subjected to a hydrostatic pressure test. Testing shall be in accordance with provision AWWA C-600-99 (or latest edition). Each valved section of pipe shall be slowly filled with water and flushed. The specified test pressure shall be applied by means of a pump connected to the pipe in a satisfactory manner. Water used shall be metered. The pump to pipe connection and all necessary apparatus including gauges and meters shall be furnished by the contractor. Before applying the specified test pressure, all air shall be expelled from the pipe. To accomplish this, taps shall be made, if necessary, at points of highest elevation and afterwards turned off and capped. All joints showing visible leaks shall be repaired or replaced until they are free from leaks. Any cracked or defective pipes, fittings, valves, or hydrants discovered in consequence of this pressure test shall be removed and replaced by the contractor with sound material and the test shall be repeated until satisfactory to the City Engineer. In no instance shall "Bell Joint Clamps" be permitted to repair leaks at push-on Joints.

- a) The newly laid water mains or any valved sections of it shall be subjected to a hydrostatic pressure test of no less than 150 pounds per square inch (psi) or 50% more than the operating pressure, whichever is greater. The test pressure shall not vary by more than  $\pm 5$  psi.
- b) The duration of each pressure test shall be for a period of not less than 4 hours.

- c) The pressure test gauge shall be glycerin or oil filled, with a range of not more than 200 psi and increments not greater than 5 psi.

404.3.1 PERMISSIBLE LEAKAGE

- a) Suitable means approved by the City Engineer shall be provided by the contractor for determining the quantity of water lost by leakage. The leakage test shall be conducted after satisfactory completion of the pressure test before being accepted.
- b) Allowable leakage shall not be greater than that indicated in Table 400-3.
- c) Leakage is defined as the quantity of water to be supplied in the newly laid pipe or any valved section under test which is necessary to maintain the specified leakage test pressure after the pipe has been filled with water and the air expelled.
- d) Flanged pipes shall be watertight.

**TABLE 400-3  
ALLOWABLE LEAKAGE FOR HYDROSTATIC  
PRESSURE TEST (150 PSI)**

Nominal Pipe Diameter	Allowable Leakage (gallons/hour/1000 LF)
2"	0.19
3"	0.28
4"	0.37
6"	0.55
8"	0.74
10"	0.92
12"	1.10
14"	1.29
16"	1.47
18"	1.66
20"	1.84
24"	2.21

404.4 DISINFECTION (CHLORINATION)

404.4.1 FLUSHING

- a) Sections of pipe to be disinfected shall first be flushed to remove any solids or contaminated material that may have become lodged in the pipe. If no hydrant is installed at the end of the main, then a tap should be provided large enough to develop a velocity of at least 2.5 feet per second in the main. One 2-1/2 inch diameter hydrant opening will, under normal pressure, provide this velocity in pipe sizes up to and including 12 inches. See Table 400-4 for additional sizes.

- b) All taps required by the contractor for chlorination or flushing purposes or for temporary or permanent release of air, shall be provided by him as part of the construction of water mains. When completed, the copper tubing shall be removed and the corporation stop placed at the "off" position. After testing, all corporation stops in valve vaults shall be brass-capped to protect threads.

**TABLE 400-4  
MINIMUM ORIFICE SIZE (INCHES) TO  
FLUSH WATER MAIN AT 2.5 FPS**

Pipe Diameter	Residual Pressure, PSI				
	20	40	60	80	100
4"	1.11	0.94	0.85	0.79	0.75
6"	1.64	1.38	1.24	1.16	1.09
8"	2.23	1.88	1.69	1.58	1.49
10"	2.75	2.31	2.09	1.94	1.84
12"	3.34	2.81	2.54	2.37	2.24
14"	3.86	3.25	2.94	2.73	2.58
16"	4.31	3.63	3.28	3.05	2.88
18"	4.98	4.19	3.78	3.52	3.33
20"	5.53	4.65	4.20	3.91	3.70

NOTE: Standard hydrant nozzle sizes are 2.5 inch and 4.5 inch

**404.4.2 DISINFECTION REQUIREMENTS**

- a) Before being placed into service, all new water mains and/or extensions to existing mains shall be chlorinated so that an initial chlorine residual of at least 50 ppm is present, and that a chlorine residual of not less than 25 ppm remains in the water after standing 24 hours in the pipe.
- b) For extensions and/or connections equal to or less than one pipe length (< 18 ft), the new pipe, fittings and valve(s) required for the connection/extension may be spray or swab disinfected with a minimum 1 percent hypochlorite solution just prior to being installed.
- c) Before a tapping sleeve is installed, the exterior of the main to be tapped, as well as the interior surface of the sleeve, shall be thoroughly cleaned and swabbed with a 1 percent hypochlorite solution.
- d) Fire service lines requiring disinfection shall have the permanent position indicating valve (OS&Y or approved equal) installed on the fire sprinkler riser prior to disinfection.

#### 404.4.3 FORM OF APPLIED CHLORINE

Chlorine shall be applied by one of the methods which follow, subject to approval by the City Engineer.

- a) Liquid Chlorine - A chlorine gas-water mixture shall be applied by means of a solution- feed chlorinating device or the dry gas may be fed directly through proper devices for regulating the rate of flow and providing effective diffusion of the gas into the water within the pipe being treated. Chlorinating devices for feeding solutions of chlorine gas or the gas itself must provide means for preventing the back flow of water into the chlorine cylinder.
- b) Chlorine-Bearing Compounds in Water - In certain instances, when the usage of chlorine gas is not practical, such as in congested or confined areas, upon approval of the City Engineer, a chlorine bearing compound of known chlorine content, prepared in solution form, may be substituted for chlorine gas.

#### 404.4.4 POINT AND RATE OF APPLICATION

- a) Point of application - The preferred point of application of the chlorinating agent is at the beginning of the pipeline extension or any valved section of it, and through a corporation stop inserted in the pipe. The water injector for delivering the chlorine-bearing water into the pipe should be supplied from a tap made on the pressure side of the gate valve controlling the flow into the pipe line extension. Alternate points of application may be used when approved or directed by the City Engineer.
  - b) Rate of Application - Water from the existing distribution system, or other approved source of supply shall be controlled to flow very slowly into the newly laid pipeline during the application of the chlorine. The rate of chlorine mixture flow shall be a constant feed and in such proportion to the rate of water entering the newly laid pipe that the dosage applied to the water will be at least 50 parts per million unless otherwise directed by the City Engineer.
  - c) Retention Period - Treated water shall be retained in the pipe at least 24 hours. After this period, the chlorine residual at pipe extremities and at other representative points shall be at least 25 parts per million.
  - d) Chlorinating Valves and Hydrants - After the process of chlorinating newly laid pipe, all valves internal to the isolated test section and other appurtenances shall be operated while the pipeline is filled with the chlorinating agent and under normal operating pressure.
- a) Preventing Reverse Flow - Valves shall be manipulated so that the strong chlorine solution in the line being treated will not flow back into the existing distribution system supplying the water. Backflow valves are required on chlorine equipment piping.

#### 404.5 FINAL FLUSHING AND TESTING

- a) Dechlorination/neutralization may be required by the City Engineer. The environment into which the chlorinated water is to be discharged shall be inspected. If there is any possibility that the chlorinated discharge will cause environmental damage, then a neutralizing chemical

shall be added to the discharge water to thoroughly neutralize the chlorine residual remaining in the water (see AWWA C651-05, or latest edition, Appendix B).

- b) Following chlorination, all treated water shall be thoroughly flushed from the newly laid pipe at its extremity until the replacement water throughout its length shows, upon test, a residual not in excess of that carried in the source of supply.
- c) After flushing, water samples collected on 2 successive work days from the treated piping system, as directed by the City Engineer, shall show satisfactory bacteriological results. Water main shall not be flushed to obtain the second day sample. Bacteriological analysis must be performed by a laboratory approved by the Director of the Illinois Department of Public Health and the City Engineer. A minimum of two samples is required. The actual number of samples will be determined by the City Engineer.
- d) Should the initial treatment result in an unsatisfactory bacterial test, the original chlorination procedure shall be repeated by the contractor until satisfactory results are obtained.
- e) Wood Dale Department of Public Works must be notified at least 48 hours prior to flushing. New water mains, including pressure tap valves, connected to an existing water main, and existing water main valves shall only be operated by Wood Dale Department of Public Works personnel.

**SECTION 500:  
PAVEMENT**

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## **501 GENERAL**

The standards and requirements found in this article are for materials and construction of roadway pavement, parking lots, driveways, and bicycle/pedestrian pavement within the City of Wood Dale, Illinois.

### **501.1 STANDARD DOCUMENTS**

The following list of Standard Construction Documents define the methods, materials, and testing to be utilized when designing and constructing transportation improvements. The sections in this specification are intended to define further particular elements of both design and construction of transportation projects in Wood Dale, Illinois. The City Engineer shall decide all questions that arise as to the interpretation of the specifications.

- a) Design Manual, latest edition (IDOT)
- b) Construction Manual, latest edition (IDOT)
- c) Soils Manual, latest edition (IDOT)
- d) Highway Standards, latest edition (IDOT)
- e) Manual of instructions for Concrete Proportioning and Testing, latest edition (IDOT)
- f) Manual of Instructions for Bituminous Proportioning and Testing, latest edition (IDOT)

### **501.2 PROTECTION OF RIGHT-OF-WAY IMPROVEMENTS**

The developer and contractor shall have the responsibility to adequately protect the pavement and property, curb and gutter and other right-of-way improvements, whether newly constructed or existing, from any and all damage. Sufficient means shall be employed by the contractor to protect against such damage to the satisfaction of the City Engineer.

Any new or existing improvements that are damaged shall be repaired or replaced in a manner that is satisfactory to the City Engineer.

The contractor and/or developer shall secure all necessary rights to perform any work on private property not within the ownership rights of the developer. The developer shall bear the sole responsibility for damages that may occur as a result of work performed under contracts they initiate.

### **501.3 PRIVATE STREETS**

Private streets shall be designed and constructed in accordance with the standards set forth for public streets.



#### 501.4 PAVING RESTRICTIONS

Roadway construction shall only be permitted between April 15 and November 15, weather permitting, unless otherwise authorized in writing by the City Engineer. This authorization will in no manner void the obligation of the developer and contractor to adhere to the specifications or guarantee the work.

#### 501.5 MAINTENANCE OF TRAFFIC

The contractor shall employ the appropriate methods of traffic control in accordance with the plans, specifications and the Manual on Uniform Traffic Control Devices, such that the safety of vehicles, and pedestrians is preserved at all times. The erection and maintenance of the traffic control devices shall be to the satisfaction of the agency of jurisdiction and the City Engineer.

#### 501.6 UTILITY IDENTIFICATION

When newly poured curbs are installed, the contractor shall use a City approved stamp to indent the wet concrete with an "S" to identify the location of each sanitary manhole and sewer stub and/or indent the wet concrete with a "W" to identify the location of each water valve or water service. The letters shall be indented at the top of the curb and shall be one and one-half (1 1/2) inches to two (2) inches in height, one and one-half (1 1/2) inches to two (2) inches in width, embedded at least three-eighths (3/8) inch deep.

If the developer and/or the contractor fail to indent the curbs as outlined above, the City will require that identification medallions or other symbols as approved by the City Engineer be affixed to the curb.

#### 501.7 SIDEWALK CLOSURES

Closure of sidewalk in a Commercial District poses a serious impediment to access by the heavy pedestrian volume of residents and business employees. Sidewalks shall not be closed unless approved by the City Engineer; any sidewalk closures will be granted only for the brief periods of time needed and shall not be for an entire project. Closure of a sidewalk will be granted by the City Engineer only for those phases of a construction project for which there are no acceptable safe methods of keeping the sidewalk open to pedestrian travel. The following requirements apply to all approved sidewalk closures:

- a) Temporary sidewalks shall be used around or through closed off areas rather than closure of a sidewalk whenever possible. Temporary sidewalks shall comply with ADA standards.
- b) For any closure of a sidewalk, a pedestrian guide signing plan shall be developed as part of the permit submittal. The pedestrian guide signing plan will include directional signing to adjacent municipal parking lots and directional signing to existing designated pedestrian crosswalks at all-way stop and traffic signal controlled intersections, as well as the sidewalk closure signs incorporated into the IDOT standards. The pedestrian guide signing plan shall comply with ADA standards. The project may not commence until the pedestrian guide and closure signing is in place.
- c) Overhead and lateral pedestrian protection shall be installed, where necessary, to insure pedestrian safety, as directed by the City Engineer based upon a review of the project and its sequence of work.

- d) Mid-block pedestrian crosswalks shall not be allowed on streets labeled as Corporate Main streets or thoroughfares due to the high volume of traffic and the multiple traffic lanes of these roads.
- e) Mid-block pedestrian crosswalks for locations other than those noted above may be granted as part of the pedestrian work zone plan by the City Engineer based upon the submittal of a pedestrian traffic engineering study. Appropriate warning signs (and flashers) are required for mid-block pedestrian crossings.
- f) Closure of a sidewalk shall be by a portable or permanent fencing as directed by the City Engineer. Barricades and warning tape are not to be used. Short term closures (those less than 5 days) may be done with barricades and warning tape.

#### 501.8 FINAL ACCEPTANCE

The developer shall maintain the integrity of the pavement, provide periodic cleaning of the pavement, and perform snow removal until final acceptance of the roadway.

#### 501.9 AMERICANS WITH DISABILITIES ACT

All pedestrian facilities shall be constructed in accordance with the latest requirements of the Americans with Disabilities Act (ADA). It is the Contractor's responsibility to review the site conditions and the design plans prior to construction to verify that the proposed improvements can be constructed per ADA requirements. In the event that the proposed improvements cannot be constructed per the ADA requirements, the designer should be consulted and appropriate action must be taken. Appropriate action may include a field change, a plan revision, or a memo to the City from the designer indicating why a certain aspect of the ADA cannot or will not be met. The City will not accept any improvements that fail to meet the requirements of the ADA without documentation from the designer.

It is recommended that the Wood Dale Standard Details be consulted when designing and constructing pedestrian improvements. However, all improvements must ultimately be in accordance with the 2010 ADA Standards for Accessible Design published by the Department of Justice and the Illinois Accessibility Code published by the Illinois Capital Development Board.

## **502 MATERIALS**

### **502.1 SUBGRADE**

All subgrade material shall have a minimum Illinois Bearing Ratio (IBR) of 3.0 as measured by a dynamic cone penetrometer. Subgrade material having an IBR of less than 3.0 shall be modified by undercutting and backfilling the unsuitable areas in accordance with Section 503.1. All materials shall be required to be supplied by a state approved supplier.

### **502.2 SUBBASE**

Unless otherwise indicated, all subbase shall be constructed of compacted, crushed aggregate meeting IDOT gradation CA-6 and shall come from a state approved supplier.

### **502.3 BITUMINOUS CONCRETE PAVEMENT**

Bituminous concrete base course, bituminous concrete binder course and bituminous concrete surface course shall meet the mix design and gradation for the State of Illinois specifications for Bituminous Aggregate Mixture, Bituminous Concrete Binder Course Class modified, and Bituminous Concrete Surface Course Class I modified, respectively. All mix designs shall be approved by the City Engineer. The surface course on all original roadway construction and pavement widenings shall be comprised of only virgin materials.

### **502.4 PORTLAND CEMENT CONCRETE PAVEMENT**

The pavement shall be of Portland cement concrete with or without reinforcement constructed on a prepared subgrade and subbase.

#### **502.4.1 ADMIXTURES**

No admixtures other than air entrainment agents in accordance with ASTM C-33 shall be used in the concrete without prior written approval of the City Engineer. All admixtures shall meet all applicable AASHTO and ASTM standards and requirements. The use of calcium chloride is not allowed unless approved in writing by the City Engineer and then only when added by the concrete supplier at the batch plant in accordance with the IDOT Manual of Instructions for Concrete Proportioning and Testing.

#### **502.4.2 SIDEWALKS, DRIVEWAYS & APRONS**

Commercial, Industrial, and Multi-Family driveways and parking lots shall comply with applicable articles in sections 300 and 400 of the Illinois Department of Transportation Standards of Roads and Bridge Construction as well as Pavement Details 7 and 13 of this Manual .

All residential driveways and aprons shall be constructed of a minimum three inches (3") bituminous surface over six inches (6") compacted aggregate base or six inches (6") concrete over two inches (2") compacted aggregate base.

A permit is required from the Community Development Department for construction of new, expansion or replacement of driveways and parking lots on private property. A permit from the Public Works Department is required for construction of new, expansion or replacement of driveway apron within the right-of-way.

All driveways shall be a minimum of eight feet (8') in width. All driveways shall extend to the curb or curb line. It shall be mandatory to have said driveway installed prior to the occupancy of the

premises. No driveway shall be so constructed or graded as to leave a step, sharp depression or other obstruction on the sidewalk. The grade shall be as nearly as possible to the same as that of the adjoining sidewalk. It shall be unlawful to have the surface finish of any driveway where the same crosses the sidewalk constructed of such material as to render it slippery or hazardous to pedestrians, or to have the grade of such portion vary from the grade of the sidewalk, or to be other than level. This shall not preclude compliance with the ADA standards.

#### 502.4.3 CURING AND PROTECTION

If membrane curing compounds are utilized they shall also be a type which provides a protective seal which is satisfactory to the City Engineer.

## **503 CONSTRUCTION**

### **503.1 SUBGRADE**

The subbase material shall be laterally supported by a sufficient amount of initial backfill material to prevent movement of the subbase during placement of the concrete and/or removal of the form work.

#### **503.1.1 UNSUITABLE SOILS**

Any subgrade material deemed unsuitable by the City Engineer shall be removed and replaced with granular material. The depth of undercut shall be based on the existing subgrade material and strength and shall be approved by the City Engineer. All subgrade sections undercut and backfilled shall be drained with underdrain pipe connected to a new or existing storm sewer or drainage system. Underdrain pipe shall be PVC schedule 40 or SDR 35 with factory drilled perforations, with a minimum diameter of 4 inches.

#### **503.1.2 LIME MODIFICATION**

Modification of soils by the use of lime requires prior approval by the City Engineer. Lime modification will only be allowed as a means to expedite construction in those instances where the moisture levels of the subgrade soils prevent construction by standard methods in a time frame deemed acceptable to the City Engineer. Lime modification shall be done in accordance with Section 302 of the Standard Specifications for Road and Bridge Construction, except as modified herein.

The developer or his engineer shall provide a minimum of 10 pounds (5 kg) of lime and 100 pounds (45 kg) of on-site soil, located in the proposed subgrades to be modified, prior to construction of the lime modified subgrade. The lime shall be proportioned within a range of 2% to 6% of soil (oven-dry basis). The required proportion of lime shall be established by the developer's engineer or geotechnical consultant prior to construction, using samples of the proposed soil and lime and IDOT's laboratory procedure for lime modified soil.

The mix design and documentation of all the tests necessary to calculate the mix design shall be submitted to the City Engineer at least 5 days prior to the construction of the lime modified soils. The developer's engineer or geotechnical consultant does have the right to make such adjustments of lime proportioning as considered necessary during the progress of the work, within the range specified (2% to 6%). The source or type of lime shall not be changed during the progress of the work without permission of the City Engineer, and after additional documentation and soil testing.

Upon completion of the lime modified subgrade the developer's engineer or geotechnical consultant shall provide documentation of field tests certifying that the required standard dry density has been obtained. Upon receipt of the documentation the City Engineer shall allow the developer to schedule and perform a proof roll of the subgrade. All areas that fail the proof roll shall be repaired until the subgrade meets the proof roll requirements.

### **503.2 SUBBASE**

A stabilized subbase shall be constructed in accordance with Article 312 of the IDOT Standard Specifications, except that pozzolanic stabilized mixtures are not permitted.

### **503.3 BITUMINOUS CONCRETE PAVEMENT**

Bituminous concrete pavement shall be constructed in accordance with Article 403 through Article 408 of the IDOT Standard Specifications.

#### 503.4 PORTLAND CEMENT CONCRETE PAVEMENT

##### 503.4.1 CURB & GUTTER

All concrete curb and gutter shall be constructed in accordance with Wood Dale Standard Pavement Detail 8, and Section 1020 of the IDOT Standard Specifications.

Where curb and gutter crosses utility trenches, the curb and gutter shall be constructed with two No. 4 epoxy coated deformed steel reinforcement bars extending a minimum of 3 feet beyond the edges of the trench.

##### 503.4.2 COMMERCIAL DRIVEWAY APRONS

All driveway aprons or approaches shall be constructed in accordance with Wood Dale Standard Pavement Detail 7, and Section 1020 of the IDOT Standard Specifications.

##### 503.4.3 SIDEWALK

All sidewalks shall be constructed in accordance with Wood Dale Standard Pavement Details 2, 3A, 3B, and 4, and Section 1020 of the IDOT Standard Specifications.

##### 503.4.4 CURING AND PROTECTION

All concrete curb and gutter, sidewalk and other concrete pavements in the City of Wood Dale shall be cured in accordance with the IDOT Standard Specifications. All provisions of Section 1020.13 shall be employed. All membrane products shall be applied in accordance with the manufacturer's recommendations.

#### 503.5 PAVEMENT MARKINGS

All pavement markings and markers shall be installed in accordance with Article 780 through Article 783 of the IDOT Standard Specifications. Except that paint pavement marking shall only be used as temporary pavement markings.

#### 503.6 PAVEMENT PROTECTION AND REPAIR

The contractor shall be responsible to adequately protect all pavement within the public right-of-way. The City Engineer shall have the sole authority in determining if the pavement has been damaged. Upon the request of the City Engineer, the contractor shall remove the damaged sections of pavement at no cost to the city. Any damaged curb and gutter shall be replaced by a new segment of no less than five feet in length.

## **504 INSPECTION AND TESTING**

During the construction of any public roadways within the corporate limits of the City of Wood Dale, testing shall be performed in accordance with the requirements of this section.

In accordance with the Wood Dale Municipal Code, all sidewalk contractors must be licensed and the contractor must request an inspection by the Department of Transportation and Engineering for all work within the public right-of-way.

### **504.1 GENERAL REQUIREMENTS**

The project owner will employ and pay for the services of a qualified independent testing laboratory to provide the materials testing, as specified, in conjunction with the owner's project engineer and the City Engineer.

Following the completion of the testing and the preparation of the applicable reports, copies shall be distributed as follows:

- a) One copy to the project owner
- b) One copy to the owner's project engineer
- c) One copy to the City Engineer
- d) One copy to the contractor

Failure to provide the applicable test reports will impede adjustments to bonds, letters of credit, the execution of further work, and acceptance of the improvements or the issuance of occupancy permits.

### **504.2 LABORATORY QUALIFICATIONS**

The materials testing consultant and laboratory shall meet the general requirements of the ASTM E-329 "Standards of Recommended Practice for Inspection and Testing Agencies for Concrete, Steel and Bituminous Materials used in Construction".

The materials testing consultant shall provide qualified personnel promptly upon notice and shall cooperate with the owner's project engineer, the City Engineer or representative and the contractor. Any irregularities or deficiencies in the work observed during the performance of services shall be promptly reported to the owner, the owner's project engineer and the City Engineer. The contractor shall cooperate with the materials testing consultant by providing sufficient notice in advance of operations to allow assignment of personnel and scheduling tests, provide access to the work and manufacturing facilities, and provide representative samples of the materials to be incorporated into the work.

### **504.3 TESTING REQUIREMENTS**

Table 500-1 outlines the material and construction testing requirements for pavements constructed within the public right-of-way in the City of Wood Dale. The table defines the testing requirements based on the material to be incorporated into the work.

The testing frequencies outlined in Table 500-1 are the minimum required for verification of the work; additional testing may be required due to the unique nature of a particular project or to verify or examine further deficiencies or irregularities in the work. Both the owner's project engineer and the City engineer reserve the right to order additional testing. The cost of both the initial testing and any additional testing shall be paid for by the project owner. The contractor reserves the right to contract the services of an equally qualified independent testing laboratory, at their expense, to perform additional inspections, sampling and testing when the initial tests indicate that the work is not in accordance with the contract document and specifications. The City Engineer shall have the final authority to make decisions regarding the acceptability of the work.

#### 504.4 PAVEMENT EVALUATION

The City engineer will evaluate pavement in the right-of-way prior to final acceptance. This evaluation shall be based on the test results required by these standards, and by visual inspection of the pavement surface.

Prior to the acceptance of a Portland cement concrete pavement or the installation of the bituminous concrete surface course on either a composite pavement with a Portland cement concrete base course, a bituminous base course or an aggregate base course, a Dynaflect Pavement Evaluation Program Report shall be performed. The program shall include the following general testing/pavement evaluation techniques:

- a) Environmental Study (frost cycle, drainage, etc.)
- b) Pavement Surface Evaluation
- c) Soil borings at approximately one location per mile
- d) Dynamic Pavement Deflection Analyses (Dynaflect machine or equal correlated with Benkelmen Beam or equal)

The cost of the pavement evaluation shall be paid for by the developer. The engineer's estimate and the public improvement letter of credit shall provide an amount sufficient to perform the pavement evaluation. The amount shall be retained until satisfactory completion of the evaluation, payment of the cost of the evaluation to the City by the developer, and City Council acceptance of the roadway.

Prior to construction of the surface course, a field inspection shall be performed of the curb and gutter, base course, and binder course and all failures and deficiencies of the pavement shall be repaired by the contractor to the satisfaction of the City Engineer.



**TABLE 500-1  
MATERIAL TESTING  
FOR SUBGRADE/EMBANKMENT**

<b>TYPE OF TEST</b>	<b>FIELD SAMPLING FREQUENCY</b>	<b>REMARKS</b>
SOIL BORINGS ASTM D1586-84	MIN. EVERY 1000' AT APPROX. CENTERLINE OF ROW & ONE PER CUL-DE-SAC <sup>1,3</sup>	
BEARING RATIO COMPUTATION (IBR B554)	ONE PER TYPE OF SOIL <sup>1,3</sup>	
STANDARD PROCTOR/SIEVE ANALYSIS ASTM D698-91	MIN. ONE TEST PER SOIL CLASSIFICATION <sup>1,2,3</sup>	THE CITY RESERVES THE RIGHT TO REQUIRE THE MODIFIED PROCTOR ASTM D1557-91 BY NUCLEAR DENSITY DEVICE
ATTERBERG LIMITS AASHTO T-89 & T-90/ASTM D4318-95		
IN-PLACE MOISTURE DENSITY ASTM D2922-96 (SUB-GRADE)	MIN. ONE TEST EVERY 500' AND ONE PER CUL-DE-SAC <sup>2,3</sup>	
IN-PLACE MOISTURE DENSITY ASTM D2922-96 (EMBANKMENT)	FOR EACH 500' OF FILL AREA, ONE TEST PER EACH 3' OF EM-BANKMENT HEIGHT	
GRAB SAMPLE ASTM D75-97	OCCASIONALLY <sup>2</sup>	LAB EVALUATIONS AS NEEDED
STRING-LINE SUBGRADE	MIN. EVERY 100' WITH A TOLERANCE OF 1/2" +/- <sup>4</sup>	
PROOF ROLL	MIN. ENTIRE ROAD, EACH LANE OF TRAVEL <sup>4</sup>	A FULLY LOADED 50,000 LB GVW TANDEM AXLE (6 WHEELER)
<sup>1/</sup> PRE CONSTRUCTION <sup>2/</sup> CONSTRUCTION <sup>3/</sup> DEVELOPER'S/OWNER'S TESTING FIRM (MUST MEET ASTM REQUIREMENT E-329) <sup>4/</sup> MUST BE WITNESSED BY CITY OF WOOD DALE		

**TABLE 500-2  
MATERIAL TESTING  
FOR AGGREGATE BASE/SUB-BASE**

TYPE OF TEST	FIELD SAMPLING FREQUENCY	REMARKS
STANDARD PROCTOR/GRADATION ASTM D698-91 (AASHTO T99-74)	MIN. ONE TEST PER TYPE OF MATERIAL & PER SOURCE OF SUPPLY <sup>1,2,3</sup>	THE CITY RESERVES THE RIGHT TO REQUIRE THE MODIFIED PROCTOR ASTM D1557-91
IN-PLACE MOISTURE DENSITY ASTM D2992-96	MIN. EVERY 500' PER LIFT <sup>2,3</sup>	MATERIAL MUST COME FROM AN APPROVED SOURCE
GRAB SAMPLE D75-97	OCCASIONALLY <sup>2</sup>	LAB EVALUATIONS AS NEEDED
STRING-LINE	MIN. EVERY 100' MAX, TOLERANCE OF 1/4" +/- <sup>4</sup>	
PROOF ROLL	MIN. OF ENTIRE ROAD, EACH LANE OF TRAVEL <sup>4</sup>	A FULLY LOADED 50,000 LB GVW TANDEM AXLE (6 WHEELER)
<sup>1/</sup> PRE CONSTRUCTION <sup>2/</sup> CONSTRUCTION <sup>3/</sup> DEVELOPER'S/OWNER'S TESTING FIRM (MUST MEET ASTM REQUIREMENT E-329) <sup>4/</sup> MUST BE WITNESSED BY CITY OF WOOD DALE		

**TABLE 500-3 MATERIAL TESTING  
FOR CONCRETE PAVEMENT**

<b>TYPE OF TEST</b>	<b>FIELD SAMPLING FREQUENCY</b>	<b>REMARKS</b>
PLANT INSPECTION	REQUIRED WITH A MIN. OF 100 C.Y. PER DAY <sup>2,3</sup>	PAVEMENT ONLY
SLUMP (IN FIELD) AASHTO T119 ASTM C- 143, C-192	MIN. ONE TEST PER 50 C.Y. <sup>2,3</sup> (MIN. 2 TESTS PER DAY)	
AIR ENTRAINMENT (IN FIELD) ASTM C- 231 AASHTO T152	MIN. ONE TEST PER 50 C.Y. <sup>2,3</sup> (MIN. 2 TESTS PER DAY)	AS PER IDOT'S "CONC. PROPORTIONING AND MANUAL OF INSTRUCTIONS AND TESTING"
STRENGTH (AASHTO T22&T23) 6"x12" SPECIMANS MAY BE USED ASTM C-39, C-87- ROADWAYS	MIN. 4 CYLINDERS PER 100 C.Y. (BREAKS AT 3, 7 AND 14 DAYS WITH 4TH HELD IN RESERVE)	30" BEAMS MAY BE CAST INSTEAD OF CYLINDERS
STRENGTH (AASHTO T22&T23) 6"x12" SPECIMANS MAY BE USED ASTM C-39, C-87	MIN. 3 CYLINDERS PER 50 C.Y. (BREAKS @ 14 & 28 DAYS WITH 3RD CYLINDER IN RESERVE) <sup>2,3</sup>	30" BEAMS MAY BE CAST INSTEAD OF CYLINDERS
<sup>1/</sup> PRE CONSTRUCTION <sup>2/</sup> CONSTRUCTION <sup>3/</sup> DEVELOPER'S/OWNER'S TESTING FIRM (MUST MEET ASTM REQUIREMENT E-329) <sup>4/</sup> MUST BE WITNESSED BY CITY OF WOOD DALE		

**TABLE 500-4 MATERIAL TESTING  
FOR ASPHALT PAVEMENT**

TYPE OF TEST	FIELD SAMPLING FREQUENCY	REMARKS
PLANT INSPECTION	REQUIRED WITH A MIN. OF 100 TONS PER DAY <sup>2,3</sup>	
IN-PLACE DENSITY ASTM D1559, AASHTO T209, AASHTO T245	MIN. OF EVERY 200' PER LANE PER LIFT, ONE PER CUL-DE-SAC <sup>2,3</sup>	BY NUCLEAR DENSITY DEVICE
DENSITY/THICKNESS ASTM D2726-96, AASHTO T164, ASTM D1856-95, AASHTO T170, ASTM D2041-95	2 CORES MIN. PER DAY (ONE CORE FULL TESTING WITH SECOND CORE STANDBY) <sup>2,3</sup>	
<sup>1/</sup> PRE CONSTRUCTION <sup>2/</sup> CONSTRUCTION <sup>3/</sup> DEVELOPER'S/OWNER'S TESTING FIRM (MUST MEET ASTM REQUIREMENT E-329) <sup>4/</sup> MUST BE WITNESSED BY CITY OF WOOD DALE		

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STREET LIGHTING & TRAFFIC SIGNALS**

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## **601 GENERAL**

The standards and requirements found in this article are for the materials and construction of street lighting and traffic signal systems within the City of Wood Dale, Illinois.

### **601.1 SPECIFICATIONS**

All work and equipment performed and installed under this section shall be governed by and shall comply with the following specifications, manuals, and codes listed in Section 102.2. The most current editions and all subsequent revisions and alterations for the specifications are required.

### **601.2 RESOLUTION OF CONFLICTS**

In the event of conflict between the City Standard Specifications and the documents listed in Section 102.2, the City Standard Specifications shall take precedence and/or the Director of Public Works decision will prevail. Any questions arising from these specifications should be directed in writing to the Director of Public Works for a determination.

### **601.3 START OF CONSTRUCTION**

The contractor shall not begin construction until all required permits have been obtained. Copies of all permits obtained by outside agencies must be provided to the City prior to the start of construction.

### **601.4 AS-BUILTS**

Upon completion of work, the contractor shall provide as-built information in conformance with the requirements of Section 110.

## 602 MATERIALS

### 602.1 GENERAL

The materials and equipment for installation of street lighting on public streets in Wood Dale are detailed as follows:

### 602.2 STREET LIGHTING POLES

#### 602.2.1 DECORATIVE LIGHTING

- a) Street lighting poles for decorative lighting shall be of aluminum material, 6061-T6 structural grade aluminum. The mounting height of the fixture shall be 16'-9". The fixture roof and housing shall be made of 356 alloy cast aluminum and shall be mounted directly to the pole and have white acrylic lenses. The luminaire shall be 95 Watt roof mounted LED array, 4500K color temp. The contractor shall submit the technical information, to include catalog cut sheets, for each electrical material item for approval prior to ordering the equipment. The pole shall be "UL Listed" or E.T.L. listed in U.S and Canada.
- b) The straight fluted shaft shall be made of ASTM 6061 extruded aluminum and tempered to a T condition. It shall have a decorative fluted 3" O.D. tenon. The outside diameter of the pole shall not be less than 5 inches.
- c) The wall thickness shall be a minimum of 0.188 inches. And it shall be welded for single unit construction.
- d) The bolt circle of the pole base shall be of 14 inches and utilize ¾" diameter "L" type anchor bolts.
- e) The base housing shall be 2'-3" tall and have an access door to be placed opposite the street side of the pole. It shall measure 19" square at the bottom have a 1" floor thickness and shall be fastened to the base with 1/4 inch – 20 threaded stainless steel hex head bolts and 1 ground lug mounted opposite the access door. The bolts shall be coated with an anti-seize compound during installation. It shall be secured with tamper proof, stainless steel hardware.
- f) The pole and fixture shall be finished in a Smooth Black finish or a Swedish Iron finish as directed by the City of Wood Dale. The finish shall have a minimum 5-year guarantee by the manufacturer.
- g) The fixture shall be either the Prairie style 1230LED Sternberg or an approved equal, the pole shall either be the 8200 Fort Collins series with GFI located 13'-3" above the base, or an approved equal.

## 602.2.2 REINFORCED LIGHT POLE

- a) Street lighting poles for decorative lighting to be used with (2) way finding signs mounted by others shall be of aluminum material, 6061-T6 structural grade aluminum. The mounting height of the fixture shall be 14', 16'-9" to top of fixture. The fixture roof and housing shall be made of 356 alloy cast aluminum and shall be mounted directly to the pole and have white acrylic lenses. The luminaire shall be 95 Watt roof mounted LED array, 4500K color temp. The contractor shall submit the technical information, to include catalog cut sheets, for each electrical material item for approval prior to ordering the equipment. The pole shall be "UL Listed" or E.T.L. listed in U.S and Canada.
- b) The straight fluted shaft shall be made of ASTM 6061 extruded aluminum and tempered to a T condition. It shall have a decorative fluted 3" O.D. tenon. The outside diameter of the pole shall not be less than 5 inches.
- c) The wall thickness shall be a minimum of 0.250 inches. And it shall be welded for single unit construction.
- d) The bolt circle of the pole base shall be of 14 inches and utilize 1" diameter "L" type anchor bolts.
- e) The base housing shall be 2'-3" tall and have an access door to be placed opposite the street side of the pole. It shall measure 19" square at the bottom have a 1" floor thickness and shall be fastened to the base with 1/4 inch – 20 threaded stainless steel hex head bolts and 1 ground lug mounted opposite the access door. The bolts shall be coated with an anti-seize compound during installation. It shall be secured with tamper proof, stainless steel hardware.
- f) The pole and fixture shall be finished in a Smooth Black finish or a Swedish Iron finish as directed by the City of Wood Dale. The finish shall have a minimum 5-year guarantee by the manufacturer.
- g) The fixture shall be either the Prairie style 1230LED Sternberg or an approved equal, the pole shall either be the 8200 Fort Collins series with GFI located 13'-3" above the base, or an approved equal.

## 602.2.3 RESIDENTIAL LIGHT POLE

- a) Street lighting poles for residential lighting shall be of aluminum material, Tapered (6"-4.5"). The height of the pole shall be 23'-0" with a mast arm affixed at 22'-6". The mast arm shall be 6' in length and have a rise of 2'-6". The rise shall taper off at 8" from the end. The mounting height of the fixture shall be 25'-0". The contractor shall submit the technical information, to include catalog cut sheets, for each electrical material item for approval prior to ordering the equipment. The pole shall be "UL Listed" or E.T.L. listed in U.S and Canada.
- b) The tapered shaft shall be made of Aluminum tube alloy 6063-T6, 0.156" thick with a satin ground finish.



- c) The outside diameter of the pole shall not be less than 6 inches tapering to 4.5 inches. It shall be furnished with a Pole cap secured with stainless steel screws.
- d) The mounting bracket for the mast arm shall be extruded aluminum pole plate alloy 6063-T6 with ½"-13NC stainless Steel hardware.
- e) The pole shall have a wire hole at 22'-6" with 1" I.D. rubber grommet.
- f) The mast arm shall be tapered (4'-2") aluminum tube 0.125" wall alloy 6063-T6 with an elliptical section near the pole (2 ½"x 5 1/8")
- g) The bolt circle of the pole base shall be 9-10 inches and utilize 4, 1" diameter "L" type anchor bolts 1"x36"x4" conforming with AASHTO M314-90 grade 55 with 10" of threaded end and galvanized per ASTM A153. The anchorage kit will contain 4 hex nuts, 4 lock washers, and 4 flat washers all components galvanized steel. The base flange shall be alloy 356-T6 with bolt covers and stainless steel hex screws. The bolts shall be coated with an anti-seize compound during installation. It shall be secured with tamper proof, stainless steel hardware.
- h) The base foundation shall be 9 ¾" square minimum.
- i) A reinforced handhole shall be located 1'-6" above the base minimum size of 3"x5" with a grounding lug located on the opposite side of the handhole. The handhole frame shall be cast aluminum Alloy 356-T6 with aluminum door and 2 stainless steel hex head screws.
- f) The pole and fixture shall be finished in a satin ground finish as directed by the City of Wood Dale. The finish shall have a minimum 5-year guarantee by the manufacturer. The pole shall either be the Hapco single mast 4-bolt base, or an approved equal.

#### 602.2.4 INDUSTRIAL LIGHT POLE

- j) Street lighting poles for industrial lighting shall be of aluminum material, Tapered (8"-4.5"). The height of the pole shall be 32'-8" with a mast arm affixed at 32'-2". The mast arm shall be 7'-6" in length and have a rise of 2'-6". The rise shall taper off at 8" from the end. The mounting height of the fixture shall be 34'-8". The contractor shall submit the technical information, to include catalog cut sheets, for each electrical material item for approval prior to ordering the equipment. The pole shall be "UL Listed" or E.T.L. listed in U.S and Canada.
- k) The tapered shaft shall be made of Aluminum tube alloy 6063-T6 (ASTM B221), 0.219" thick with a satin ground finish.
- l) The outside diameter of the pole shall not be less than 8 inches tapering to 4.5 inches. It shall be furnished with a Pole cap secured with ¼" 20NC stainless steel hex screws.
- m) The mounting bracket for the mast arm shall be extruded aluminum pole plate alloy 6063-T6 with ½"-13NC stainless Steel hardware.

- n) The pole shall have a 1 ¼” wire hole at 32’-2” with 1” I.D. rubber grommet.
- o) The mast arm shall be tapered (4 ½ ”-2 3/8”) aluminum tube 0.125” wall alloy 6063-T6 with an elliptical section near the pole (2 ½”x 5 1/8”)
- p) The bolt circle of the pole base shall be 11-12 inches and utilize 4, 1” diameter “L” type anchor bolts 1”x36”x4” conforming with AASHTO M314-90 grade 55 with 10” of threaded end and galvanized per ASTM A153. The anchorage kit will contain 4 hex nuts, 4 lock washers, and 4 flat washers all components galvanized steel. The base flange shall be alloy 356-T6 with bolt covers and stainless steel hex screws. The bolts shall be coated with an anti-seize compound during installation. It shall be secured with tamper proof, stainless steel hardware.
- q) The base foundation shall be 11 ¼” square minimum.
- r) A reinforced handhole shall be located 12” above the base minimum size of 4”x8” with the frame tapped ½”-13NC for grounding purposes. The handhole frame shall be cast aluminum Alloy 356-T6 with aluminum door and 2 stainless steel hex head screws.
- s) There shall be a factory installed internal damper.
- t) There shall be a festoon box (Mod. #183) with cover and stainless steel screws located 17’ above the bottom of the pole.
- f) The pole and fixture shall be finished in a satin ground finish as directed by the City of Wood Dale. The finish shall have a minimum 5-year guarantee by the manufacturer. The pole shall either be the Hapco single mast 4-bolt base, or an approved equal.

### 602.3 BREAK-AWAY DEVICE

When directed by the City of Wood Dale lighting pole shall be connected to the foundation by a breakaway device of a frangible box design. Frangible coupling bolts are not acceptable. The breakaway device shall comply with the IDOT Standard Specifications. The device shall be approximately 9 inches tall and shall have an aluminum access door. Certification shall be submitted from the supplier of a breakaway device that the particular design meets the 1985 AASHTO breakaway specification. The contractor shall submit the technical information, to include catalog cut sheets. Breakaway devices shall match the finish and the color of the pole.

### 602.4 STREET LIGHTING POLE FOUNDATIONS

#### 602.4.1 CONCRETE FOUNDATION

No direct bury metal foundations or concrete poles are allow for street lighting poles, reinforced concrete foundations are required to be used.

- a) The concrete foundation shall comply with the requirements of the IDOT Standard Specifications.

- b) Studs, Fasteners, Rods: Studs or rods shall be 1 inch diameter and shall be according to AASHTO M 314. Nuts shall be hexagon nuts according to AASHTO M 291 M (M291) and washers shall be according to AASHTO M293. Studs or rods, nuts and washers shall be hot dip galvanized according to AASHTO M232.
- c) Each foundation shall include a copper coated steel ground rod not less than 3/4 inch in diameter and not less than 10 feet in length.
- d) Reinforced street lighting pole foundations shall be a minimum of 24 inches in diameter. The outside top edge of the foundation shall have a 3/4 inch chamfer. The top of the finished foundation shall not protrude more than 4 inches above the finished grade. The anchor bolts, studs, or rods shall protrude a minimum of 3 inches above the concrete foundation.
- e) The anchor bolts shall be inside the cage of reinforcing steel.
- f) Concrete shall be class SI concrete.
- g) Conduit raceways shall be 2 inches for insertion of 1-1/4 inch unit duct conduit. Raceways shall exit the foundation into the soil a minimum of 30 inches below the grade.
- h) The depth of the foundation shall be as directed by the Director of Public Works or their designee and constructed as shown in Wood Dale Standard Lighting Detail 1, based upon an evaluation of the soil conditions encountered.

## 602.5 LUMINAIRES

### 602.5.1 RESIDENTIAL LUMINAIRE

- a) The luminaire shall be a LED light comparable to 70-250W HPS roadway luminaires.
- b) The luminaire shall have three different surge protection options that provide a minimum of ANSO C136.2 10kV/5kA or 20kV/10kA protection if needed.
- c) The luminaire shall include standard AEL lineman-friendly features such as tool-less entry, 2 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easy leveling at installation.
- d) The luminaire shall have types 2, 3, 4, & 5 distributions.
- e) The Luminaire shall have an IP66 rated borosilicate glass optics.
- f) The luminaire shall have 0% uplight
- g) The luminaire shall either be an Autobahn ATBO or and Autobahn ATBM as approved by the Director of Public Works or their designee.

## 602.5.2 INDUSTRIAL LUMINAIRE

- a) The luminaire shall be composed of 96 high performance white LEDs. Color temperature as per ANSI/NEMA bin Neutral White, 4,000K nominal CRI 70 min 75 typical.
- b) The luminaire shall have a surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I category C high exposure 10kV/10kA waveforms for line-ground, line-neutral and neutral-ground, and in accordance with the U.S. DOE MSSLC model specification for LED roadway luminaires electrical immunity requirements for high test level 10kV/10kA..
- c) The luminaire shall include standard AEL lineman-friendly features such as tool-less entry, 2 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easy leveling at installation.
- d) The luminaire shall have types 2, 3, 4, & 5 distributions.
- e) The Luminaire housing shall be made of a low doper die cast aluminum alloy A360, 0.100" min thickness. Fits on a 1.66" O.D (1.25"NPS), 1.9" O.D. or 2 3/8" O.D. (2"NPS) by 7" min long tenon. Comes with 2 zinc plated clamp fixed by 4 zinc plated hexagonal bolts 3/8 16 UNC for ease of installation. Provides an easy step adjustment of +/- 5 degree tilt in 2.5" increments. A quick release, tool less entry, hinged, removable door opens downward or disengagement. A clearance of 17" at the rear in order to remove the door. Complete with a bird guard protecting against birds or similar intruders and an ANSI label to identify wattage and source (both included in the box).
- f) The luminaire shall have 0% uplight.
- g) Built in the housing, designed to ensure high efficacy and superior cooling by natural vertical convection air flow pattern always close to LEDs and driver optimizing their efficiency and life. Product does not use any cooling device with moving parts (only passive cooling). Wide openings enable natural cleaning and removal of dirt and debris. Entire luminaire is rated for operation in ambient temperature of -4 degrees C /-40 degrees F up to +50 degrees C/+122 degrees F.
- h) The luminaire shall either be an American Electric Lighting product or approved equal as approved by the Director of Public Works or their designee.

## 602.6 PHOTO-CELL

Photo cells shall be DTL DBE 124 1.5 T UL, or equal, as approved by the Director of Public Works or their designee. The photo-cell shall be controller cabinet mounted.

Photo-electric control, must meet or exceed the following requirements:

- a) ANSI C136.24.

- b) Line voltage Operating Range of 105 to 400 VAC at 60 Hz.
- c) Load Rating of 1000 VA ballast.
- d) UL Listed.
- e) ROHS compliant
- f) Turn “on” mode calibrated at 1.6 +/- 0.3 foot candles at 120 VAC with turn “off” maximum ratio to turn “on” of 1.5:1.
- g) Time delay: Control shall have an instantaneous “on” response to allow for easy testing. Operating temperature shall have a minimal effect on time delay duration.
- h) MOV rated for 190 Joule/4500 Amp
- i) Instant turn-on, standard 5-10 second turn-off delay
- k) Warranty: The warranty for the photo-electric control shall be a minimum of 4 years.

#### 602.7 UNDERGROUND CONDUITS AND ELECTRICAL CABLE

Wiring to distribute electrical energy to street lighting will be installed underground. All wiring and cabling shall be copper conductor.

##### 602.7.1 UNIT DUCT, 1-1/4 INCH, WITH 4/C - #6 XLP USE-2 CABLE

Unless otherwise directed by the Director of Public Works, the electrical distribution wiring for street lighting from the service point to the pole for individually fed lights and from the controller out to the poles for a street lighting system shall be 4/C - #6 XLP USE-2 electrical cable (colored insulated jacket of black, white, red, and green), 600 volt in 1-1/4 inch Unit Duct installed in accordance with Section 816 of the IDOT Standard Specifications.

##### 602.7.2 UNIT DUCT, 2 INCH, WITH 4/C - #2 XLP USE-2 CABLE

Unless otherwise directed by the Director of Public Works, the service distribution wiring between the City electrical service point and a street lighting system controller shall be 3/C - #2 XLP USE-2 electrical cable (colored insulated jacket of black, white, and red), 600 volt in 2 inch galvanized conduit installed in accordance with Section 810 of the IDOT Standard Specifications. The cabling in conduit shall be placed not less than 3 feet deep.

##### 602.7.3 GALVANIZED STEEL CONDUIT – 2 INCH, 3 INCH OR 4 INCH

Where underground street lighting cables cross public streets or commercial driveways, all electrical cables and all electrical cables in Unit Duct shall be in an appropriate sized galvanized steel conduit. The galvanized steel conduit shall be placed not less than 3 feet deep.

#### 602.8 ELECTRICAL CABLE, 600 VOLT

The material supplied shall be XLP USE-2, 600 volt cable (colored insulated jacket of black, white, red, and green) of the specified number of conductors and cable size per the IDOT Standard Specifications.

#### 602.8.1 POLE WIRE

Pole Wire shall be 1/C No. 10 AWG 600 volt insulated copper conductor, XLP USE-2, stranded in conformance with ASTM B-8 from the luminaire terminal blocks to the pole handhole per IDOT Standard Specifications Sections 817 and 1066.06 for Roadway Lighting pole wire and from the pole handhole to the underground distribution system in a moisture-proof manner. Connection of pole wire to the terminals in the street lighting luminaire is incidental to the installation of the pole wire.

- a) Pole wire shall be insulated with cross-linked polyethylene, (XLP) insulation jackets of black or red or white or green colored insulation. The wire is to run inside the pole and mast arm.
- b) For aluminum poles, two 1/C - #10 pole wire conductors in black and white colors will be used.
- c) For concrete poles, three 1/C - #10 pole wire conductors in black, white, and green color will be used. The green conductor will be connected to the ground lug of the luminaire and to the ground lug/ground cable in the base of the pole.

#### 602.8.2 SPLICING

Splicing of Electrical Cable shall be in accordance with the IDOT Standard Specifications with the following additional requirements.

- a) Splices above grade, such as in poles and junction boxes, shall have a waterproof sealant and a heat-shrinkable plastic cap. The cap shall be of a size suitable for the splice and shall have a factory-applied sealant within.
- b) Additional seal of the splice shall be assured by the application of sealant tape or the use of a sealant insert prior to the installation of the cap. Either method shall be assured compatible with the cap sealant.
- c) Tape sealant shall be applied in not less than one half-lapped layer for a length of at least 1/4 inch longer than the cap length and the tape shall also be wrapped into the crotch of the splice. Insert sealant shall be placed between the wires of the splice and shall be positioned to line up flush or extend slightly past the open base of the cap.

#### 602.9 LIGHTING CABLE FUSE KITS

In-line fuse holder(s) and fuse(s) on all leads shall be in accordance with the IDOT Standard Specifications and as follows:

- a) Fuse holders of the in-line quick disconnect breakaway type shall be used on all light pole installations in the base of each lighting standard. The fuse holder shall have a minimum rating of 30 amps and be sized for 13/32 inch x 1 1/2 inch fuses. Fuse holder shall be Edison HEB-AW-RLC-A 30A 600V for load/line and HET-AW-RLC-A for neutral or equal as approved by the Director of Public Works or their designee.

- b) Wires shall be carefully stripped only as far as needed for connection to the device. Over-stripping shall be avoided. An oxide inhibiting lubricant shall be applied to the wire for minimum connection resistance before the terminals are crimped-on.
- c) Crimping shall be performed in accordance with the fuse holder manufacturer's recommendations.
- d) The exposed metal connecting portion of the assembly shall be taped with two half-lapped wraps of electrical tape and then covered by the specified insulating boot.
- e) The fuse holder shall be installed such that the fuse side is connected to the pole wire (load side) and the receptacle side of the holder connected to the line side.
- f) In-line fuse holder(s) shall be provided on all neutral conductors with a solid slug in place of the fuse in the base of each lighting standard.
- g) Fuses for fuse holders on line/load cable to pole wire connection shall be time delay, rated for 12 ampere, Type MEQ or MEM, or equal.

#### 602.10 STREET LIGHTING HANDHOLES

Street lighting handholes shall be used on the far side of any street crossing opposite a street lighting controller or a specified by the Director of Public works or their designee. Street lighting handholes shall be constructed in accordance with the IDOT Standard Specifications with the following provisions:

- a) The handhole shall be poured in place concrete with inside dimensions of 21-1/2 inches minimum. Frames and lid openings shall match this dimension. Hinged lids shall not be used. The legend "STREET LIGHTING" shall be cast in the lid.
- b) All conduits shall enter the handhole at depth of at least 30 inches.
- c) Cable hooks are required, one per side of handhole. All cable hooks are to be hot-dipped galvanized in accordance with AASHTO Specification M111.

#### 602.11 COMPOSITE CONCRETE JUNCTION BOX

Composite concrete junction boxes shall be constructed in accordance with the provisions of the IDOT Standard Specifications and for the connecting conduits into the junction box. The size shall be a minimum of 11 inches x 18 inches x 18 inches deep PC Style gasketed box with open base. The junction box shall be a:

- a) 4 bolt cover by Quixote Compolsolite with a design load of 8000 pounds or greater, or,
- b) 2 bolt cover by Synertech with a design load of 10,000 pounds or greater, unless otherwise specified in the plans and approved by the Director of Public Works or their designee. The cover shall bear a legend of "STREET LIGHTING". There shall be no holes cut into the sides of the junction box without approval from Director of Public Works or their designee.

#### 602.12 GROUNDING

Street lighting equipment shall be grounded in accordance with the IDOT Standard Specifications with the following provisions:

- a) Metal poles installed on metal foundations do not require a separate ground rod installation.
- b) Metal light poles installed connected directly to a City service point must have a white 1/C #10 XLP/USE-2 bonding jumper installed between the pole grounding lug and the neutral conductor.
- c) Metal light poles installed on a controller circuit do not require a separate bonding jumper at each pole.

#### 602.13 GROUND ROD

Installation of ground rods are required for the grounding of individual electrical service non-metallic street lighting poles/foundations and for supplementing the equipment grounding system via connection at poles or other equipment throughout the street lighting system. All materials and work shall be in accordance with Article 250 of the NEC.

- a) Grounding of concrete street light poles shall be by a 3/4 inch x 10 foot ground rod in accordance with the IDOT Standard Specifications, and connection by colored covered cable in accordance with the provisions of the IDOT Standard Specifications to the lighting system green 1/C #6 ground cable.
- b) Grounding for concrete foundation street lighting poles shall be by installation of the ground rod in the concrete foundation projecting out into the ground or by installation adjacent to a concrete foundation for a street lighting pole, and connection by bare cable in accordance with the provisions of the IDOT Standard Specifications to the lighting system green 1/C #6 ground cable.
- c) Grounding for controller cabinets shall be by installation of a ground rod in the concrete foundation projecting out into the ground and connected to the ground terminal bar in the cabinet by bare cable in accordance with the provisions of the IDOT Standard Specifications.
- d) Where connections to ground rods are made to insulated conductors, the connection shall be wrapped with at least four layers of electrical tape extending 6 inches below finished grade.

#### 602.14 STREET LIGHTING CONTROLLER

A street lighting controller shall be constructed as part of any lighting system for four or more street lights. This item shall consist of furnishing and installing a roadway lighting electrical control cabinet complete with foundation and wiring for control of roadway lighting as specified herein and as directed by the Director of Public Works or their designee. Unless otherwise indicated, the cabinet, including all components, shall be new. Controllers located in the Central Business District shall provide separate circuits and contactors for roadway, pedestrian, and holiday lights as specified in the City of Wood Dale CBD specifications.



#### 602.14.1 STREET LIGHTING CABINET

- a) The cabinet shall be a ground mounted and shall be 30 inches minimum width by 48 inches in height by 17-3/4 inches minimum depth (IDOT Type III) and shall be fabricated from aluminum alloy of 0.125 inches in thickness. The surfaces shall have a smooth, natural aluminum finish.
- b) The main door is of NEMA type construction with a cellular neoprene gasket which is rain and dirt tight without louver slots in the lower portion of the door to exclude the entry of moisture, dirt, and insects. Hinges are 14 gauge stainless steel. Standard equipment includes a three point locking system which secures the door at the top, bottom, and center. A Corbin lock with two keys is also furnished. The main door is equipped with a two position door stop, one stop at 90 degrees and the other at 120 degrees. A nameplate with the legend "City of Wood Dale Street Lighting" shall be fabricated and mounted on the main door. Below the nameplate, a 2nd plate with the legend "Contact the Department of Public Works at (630) 350-3530 to report problems" shall be mounted.
- c) The cabinet shall be equipped with a vent in the underside of the overhang above the cabinet door, which is designed to resist moisture, dirt, and insects.
- d) The equipment mounting panel shall be made of 1/4 inch minimum non-asbestos, inorganic, non-conducting material and shall be drilled and tapped for front mounting of the equipment. The panel shall be easily installed and removed from the front of the panel.

#### 602.14.2 CONTROLLER FOUNDATION

- a) The foundation shall be furnished and installed in place per the dimensions shown on the attached Street Lighting Controller Cabinet Foundation Detail for Type III Cabinet.
- b) The anchor bolts shall comply with ASTM A576. The top 6 inches of the anchor bolts shall be hot dipped galvanized steel according to ASTM 153. The nuts and lock washers shall be galvanized also. There shall be a minimum of 4 anchor bolts for each controller.
- c) The foundation shall include a 2 inch galvanized steel conduit raceway for the service, four 2 inch rigid plastic raceways (for 1-1/4 inch unit duct) for the field circuits, and one spare raceway of 2 inch rigid plastic.
- d) The foundation shall include a copper coated steel ground rod 3/4 inch in diameter and 10 feet in length, including copper bonding wire as shown in Street Lighting Controller Cabinet Foundation Detail for Type III Cabinet.

- e) For the conditions of controller cabinet being a replacement/retrofit of an existing pedestal mounted street light controller, the foundation will include removal of the top 6 inches of the existing foundation, expose the remaining existing concrete foundation to a depth of 48 inch below the finished grade of the new foundation, setting of four anchor bolts into the remaining foundation at a depth to be a minimum of 12 inches below the finished grade of the new foundation to tie the existing foundation into the new ground mount cabinet foundation. Installation of new foundation includes raceways noted in c) above.

#### 602.14.3 CONTROLLER OPERATION

- a) The street light controller shall control and provide over current protection for up to eight individual street light circuits. Each circuit is to be protected by the use of individual thermal-magnetic circuit breakers. Provisions shall be made for connection of up to #6 stranded copper conductors for the individual circuits.
- b) The street light controller shall be actuated by a remotely mounted photocell, which will operate through an auxiliary on-delay relay to pick up the controller's main mechanically held contactor. The operation of the photocell will insure that the street light circuits are energized during nighttime hours and de-energized during daytime hours.

#### 602.14.4 CONTROLLER EQUIPMENT The controller must include the following:

- a) 100 ampere main breaker, 2 pole, 240 volt, JDB 2100
- b) 100 ampere contactor, 2 pole, single throw, electrically operated and mechanically held remote switch, 120 volt, ASCO 2P, 100 amp, model number 920210031.
- c) Eight 35 ampere, 1 pole circuit breakers, 120 volt, "I-Line".
- d) Control breaker, 1 pole, 15 amp, WE GC1015
- e) Relay, DPDT, 120 v, on-delay, Magnacraft W211ACPSOX-7
- f) 15 ampere, HOA switch, 120 volt, Square D Manual Return KS43FBH13 NEMA 4X enclosure
- g) SPST 20 ampere switch
- h) Incandescent light fixture of the enclosed and gasketed type, Crouse Hinds VXHF15GP
- i) 20 ampere duplex receptacle, GFCI
- j) Photocell terminal block
- k) Thermostat, Grainger 2E552
- l) Heating Strip, 150 watt Grainger 2E919 (shall not be mounted to equipment mounting panel)

- m) Surge Protector, Square D SP-11100
- n) Neutral bus bar, 1/4 inch by 1 inch by 12 inches, color coded white, labeled “neutral”
- o) Ground bus bar, 1/4 inch by 1 inch by 12 inches, color coded green labeled “ground”.
- p) Secondary Pedestal shall be installed by the Wood Dale Department of Public Utilities – Electric

#### 602.14.5 SERVICE TO STREET LIGHTING CONTROLLER

- a) This section includes the installation of conduit and wire from the secondary pedestal to the street lighting controller. The secondary pedestal is installed by the City of Wood Dale – Electric at a minimum of 5 feet from the City service point.
- b) The service wiring from the secondary pedestal to the street lighting controller shall be 3/C - #2 XLP/USE-2 colored insulation of black, red, and white in 2 inch galvanized steel conduit.
- c) A metallic threaded bushing with lug shall be installed on the 2 inch galvanized steel conduit for the service and connected by a 1/C #6 XLP/USE-2 cable (green) to the ground rod.
- d) A minimum of 8 feet of 4/C-#2 shall be provided at the secondary pedestal for the purpose of making the connections to the source by the City. Additionally, 10 feet of “tails” should be included in the service to the street lighting controller.

#### 602.14.6 BUS BARS

All bus bars shall be of a size to handle the rated current of the connected equipment. Exposed bus bars shall be insulated, except for ground and neutral bus bars.

Separate ground and neutral bus bars shall be provided. The ground bus bar shall be copper and mounted on the equipment panel. The neutral bar shall be similar. The heads of the screws shall be painted white for the neutral bar and green for the ground bar.

#### 602.14.7 WIRING AND IDENTIFICATION

- a) All wiring shall be of a size to handle the rated current of the connected equipment.
- b) Wiring within the cabinet shall be of the size specified for the corresponding service conductors and branch circuits and shall be rated RHH/RHW or MTW, 600 volts.
- c) Control and auxiliary wiring shall be a minimum of #10 copper and rated RHH or MTW with jacket, 600 volt, stranded copper of appropriate colored insulation of red, black, white, and green.
- d) All power and control wiring shall be tagged with self-sticking cable markers and shall be stranded copper.

- e) All switches, controls and the like shall be identified as to function and position (as applicable) by means of engraved 2 color nameplates attached with screws.

#### 602.14.8 CIRCUIT BREAKERS

- a) All feeders, branch circuits, and auxiliary and control circuits shall have over current protection per the requirements of the NEC and as shown on the engineering plans. The over current protection shall be by means of circuit breakers.
- b) Circuit breakers shall be standard UL-listed molded case, thermal magnetic "I-Line" breakers with trip free indicating handles with terminals adequate for #6 single conductor copper cable.
- c) Circuit breakers shall have a UL-listed interrupting rating of not less than 10,000 rms symmetrical amperes at rated voltage.
- d) The eight branch circuit breakers shall be as specified on the circuit schematic, unless a lesser number is specified.

#### 602.14.9 CONTACTOR(S)

- a) The contactor shall be electrically operated, mechanically held, with the number of poles required for the service and with 120 volt operating coil voltage as indicated or otherwise required. Unless otherwise indicated in the engineering plans, the contactor shall be an ASCO 2P, 100 amp, model number 920210031.
- b) Contactor(s) shall be complete with a non-conducting inorganic, non-asbestos sub-panel for mounting.
- c) Contactor(s) shall be mechanically held, and shall be complete with coil-clearing contacts to interrupt current through the coil once the contactor is held in position.
- d) The main contactor contacts shall be double break, silver to silver type. They shall be spring-loaded and provide a wiping action when opening and closing. The contacts shall be renewable from the front panel, self-aligning, and protected by auxiliary arcing contacts.
- e) The line and load terminals shall be pressure type terminals of copper construction and of the proper size for the ampere rating of the contactor.
- f) The contactor operating coil shall be rated for nominal 120 volt, single phase.
- g) Protection from accidental contact with current carrying parts, when operating the contactor manually, shall be provided.
- h) Contactors shall be clearly marked to indicate whether they are in the open or closed position.

#### 602.14.10 AUTO/MANUAL CONTROL

- a) The cabinet shall be equipped with automatic and manual operating controls via a one-pole, double-throw switch. The switch shall be premium specification grade, rated for the applied duty, but not less than 20 amperes at 120 volts and shall be mounted in a 4 inch square box with cover.
- b) The cabinet control and auxiliary device circuit shall have over current protection as indicated and as required by NEC.
- c) Each street lighting controller shall be wired to an individual photocell located on top of the nearest street light pole. The photocell shall operate at 120 volts, 60 Hertz, AC, and be rated at 1,000 watts. The photocell shall be grounded to the luminaire. The photocell shall be wired to the street lighting controller in unit duct, 1-1/4 inch minimum size, 3/C - #10, 600V, XLP/USE-2 of colored insulation of red, black, and white, if the cabling to the photo-cell cannot be pulled into a field circuit conduit.

#### 602.14.11 INTERIOR LIGHTING AND RECEPTACLE

- a) The auxiliary device circuit shall provide 120 volts single phase to supply the convenience receptacle and cabinet light.
- b) The cabinet shall be equipped with an interior, 60 watt incandescent lighting fixture of the enclosed and gasketed type switched from a single pole, single throw, 20 amperes switch. The switch shall be premium specification grade in a suitable 4 inch box with a cover.
- c) The cabinet shall be equipped with a 120 volt, 20 ampere G.F.I. duplex receptacle, premium specification grade in a 4 inch square box with a cover.
- d) The cabinet shall be equipped with a heating strip that shall maintain the temperature within the cabinet at a minimum of 40 degrees Fahrenheit.

#### 602.14.12 TESTING OF THE ASSEMBLED CABINET

Prior to shipment of the completed cabinet, the control cabinet shall be tested for load, short circuits and complete operation of the cabinet as specified herein and as shown on the plans.

#### 602.14.13 ACCEPTANCE AND CONNECTION

Upon final inspection and approval of the street light system by the City of Wood Dale, the contractor will provide all labor and material necessary to provide 120/240 volt, two-phase, electrical service connection at the service point.

## **603 CONSTRUCTION REQUIREMENTS**

### **603.1 TRAFFIC SIGNAL SYSTEMS CONTRACTOR PRE-QUALIFICATIONS**

All contractors working on traffic signals under City of Wood Dale jurisdiction shall be pre-qualified for traffic signal work with the Illinois Department of Transportation in accordance with the IDOT Standard Specifications.

### **603.2 TRENCH AND BACKFILL FOR ELECTRICAL WORK**

Constructing a trench for the accommodation of conduit and backfilling shall be carried out in accordance with the IDOT Standard Specifications except that the 3rd paragraph of Article 819.04 is deleted. Backfill material shall be CA-6 under all paved surfaces.

The trench shall not be less than 36 inches deep with cable installation at a minimum of 32 inches in depth.

### **603.3 YELLOW WARNING TAPE OVER STREET LIGHTING CABLE**

A 4 inch wide yellow warning tape shall be installed over the street light duct at all locations where new cable is placed by the trench and backfill method. The warning tape shall be placed approximately 1 foot below grade.

### **603.4 TRAFFIC SIGNAL SYSTEM SERVICE INSTALLATION**

Electrical service for traffic signals is to be provided by the City of Wood Dale from a pad-mounted transformer.

The Contractor shall install a meter socket, Milbank #U8980-0-KK supplied by the Contractor. The Milbank shall be located as shown in the plans. The meter shall be supplied and installed by the City of Wood Dale.

Standard service shall be 120/240 volt, two phase, 3 wire between the service point and the Milbank (meter) and shall be 120 volt, one phase, 4 wire between the Milbank (meter) and the traffic signal controller cabinet. The contractor is to contact the City of Wood Dale for Specifications if another service voltage is required.

The Contractor shall install #6 CU, STR, XLP, U.S.E., 600 volt cable (color coded black, white, and red) in 2 inch galvanized steel conduit between the meter socket and the service connection point. For underground service connections, the service conductors and conduit shall extend to within 2 feet of the service connection point. The Contractor shall coil 8 feet of 3C cable at the connection point for NPDU-E personnel to make the hook-up. The conductor shall be sealed, for overhead service connections, unit duct and service conductors shall be attached to utility pole and up to a minimum of ten feet above grade. The service conductors shall be coiled to provide a minimum of 20 feet of available conductor. The conductor shall be sealed.

A schematic detail drawing illustrating the connection to the Milbank and the traffic signal controller is shown as detail. The entire installation will be grounded in a manner satisfactory to the Director of Public Works or their designee.

## 604 INSPECTIONS AND TESTING

### 604.1 STREET LIGHTING SYSTEMS

New street lights must be inspected by the City prior to their acceptance. The contractor should contact the Department of Public Works at (630) 350-3530 to schedule an inspection. The inspection must be scheduled at least 48 hours in advance.

### 604.2 TRAFFIC SIGNAL SYSTEMS

#### 604.2.1 CONCRETE

All concrete work associated with the installation of a traffic signal must be tested by the contractor.

#### 604.2.2 FIELD INSPECTION

A field inspection is required prior to maintenance transfer of a signal from the contractor to the city. It is the intent to have all electrical work completed and equipment field tested by the vendor prior to the city's "turn-on" field inspection. If in the event the Engineer determines work is not complete and the inspection will require more than two hours to complete, the inspection shall be cancelled and the contractor will be required to reschedule at another date. The maintenance of the traffic signals will not be accepted until all punch list work is corrected and re-inspected.

When the road is open to traffic, except as otherwise provided in the IDOT Special Provisions, the contractor may request a turn-on and inspection of the completed traffic signal installation at each separate location. This request must be made to the Department of Public Works at (630) 350-3530 a minimum of 7 working days prior to the time of the requested inspection. The city will not grant a field inspection until written certification is provided by the contractor and the equipment has been field tested and the intersection is operating according to contract requirements. The city's facsimile number is (630) 595-8374.

**SECTION 700:  
GRADING, LANDSCAPING & EROSION CONTROL**

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## **701 GENERAL**

The standards and requirements found in this section are to provide information on the grading of pervious (non-paved) areas, the restoration and landscaping of those areas, and erosion control during and after construction.

### **701.1 SPECIFICATIONS**

The following documents are incorporated by reference:

- a) Illinois Urban Manual, IEPA/NRCS, latest edition
- b) NRCS National Engineering Handbook
- c) Illinois Landscape Contractors Association technical specifications

### **701.2 REGULATIONS**

Additional rules and regulations governing the construction of erosion control measures in the City of Wood Dale are:

- a) The restrictions, policies, and instructions that may be adopted or issued by the City of Wood Dale
- b) National Pollution Discharge Elimination System policies as administered by the Illinois Environmental Protection Agency.

### **701.3 START OF CONSTRUCTION**

The contractor shall not begin construction until all required permits have been obtained. Copies of all permits obtained by outside agencies must be provided to the city prior to the start of construction. And no earth disturbance may commence until the appropriate sediment and erosion control measures are installed.

## 702 MATERIALS

### 702.1 GRADING

#### 702.1.1 EMBANKMENT

All materials used for embankment must be suitable for such a use. No sod, frozen material or any material which, by decay or otherwise, might cause settlement shall be allowed to be used for embankment.

#### 702.1.2 TOPSOIL

Topsoil shall be a loamy soil with an organic content between one and ten percent. It shall be relatively free from large roots, sticks, weeds, brush or stones larger than 1 inch in diameter, or other litter and waste products. The topsoil shall be capable of supporting and germinating vegetation.

### 702.2 EROSION CONTROL

Please refer to the Illinois Urban Manual, latest edition for specifications and instructions for use for the various methods of erosion control measures. The following is an abbreviated listing of some of the more common measures:

- a) Temporary Seed Mixes
- b) Silt Fence
- c) Straw bales or silt boxes
- d) Earth Stabilization: rip-rap, fabrics, etc
- e) Structures: Stormceptor<sup>®</sup>, oil/grit separators, etc.
- f) Chemical – flock logs, etc.
- g) Stabilized Construction Entrance

### 702.3 RESTORATION

Ground cover shall be installed as a permanent erosion control measure, as shown on the approved landscape plans.

#### 702.3.1 SEED MIX

All seed mixes shall be an appropriate mix for the soil type and inundation conditions, as designed. IDOT approved seed mixes per Article 250 of the IDOT Standard Specifications should be considered.

#### 702.3.2 HYDROSEED

Hydroseeding shall be applied based on the coverage amount per area coverage, as specified by the manufacturer.

### 702.3.3 SOD

The sod shall be approved grass that is native to northeastern Illinois. It shall either be nursery grown or field grown and be well rooted and approved by the Engineer prior to being cut and again before it is laid. Sod that has been grown on soil that is high organic matter such as peat will not be accepted. The consistency of the adherent soil shall be such that it will not break, crumble or tear during handling and placing of the sod.

Each piece of sod shall be well covered with turf grass, shall be free from noxious weeds and other objectionable plants, and shall not contain substances injurious to growth. The grass shall be cut to a length of not less than 1-1/2 inches nor more than four inches before the sod is cut. The sod shall be cut in rectangular pieces with its shortest side not less than 12 inches. The sod shall not be cut less than one inch thick, a thickness which does not include the grass.

### 702.4 PLANTINGS

All plantings must be in conformance with the approved landscape plan. Materials must be healthy and free of disease. Prohibited trees are as follows:

1. The list of trees that are prohibited from being planted on public property or on private property meeting the requirements of Chapter 17, Article VI, Sec. 17.606 of this code shall be approved by the Public Works Director and kept on file with the City.
2. The list of said prohibited trees shall be reviewed annually to ensure the list includes species that are considered susceptible to disease or undesirable.

## **703 CONSTRUCTION REQUIREMENTS**

### **703.1 GRADING**

All pervious areas shall be graded per the approved plan or to meet the design requirements of section 702.1.

### **703.2 EROSION CONTROL**

#### **703.2.1 INSTALLATION OF EROSION CONTROL MEASURES**

All erosion control measures shall be properly installed, as permitted, prior to any land disturbance activities.

#### **703.2.2 MAINTENANCE OF EROSION CONTROL MEASURES**

All erosion control measures shall be inspected weekly, after any 0.5 inch rainfall, or more frequently as necessary to maintain their function.

#### **703.2.3 DUST**

During extended dry periods, the construction area(s) may need to be watered down to prevent the blowing of soil from the site.

#### **703.2.4 KEEPING PUBLIC ROADS CLEAN**

During construction, a stabilized construction entrance shall be utilized to minimize the tracking of dirt onto the public streets. Any dirt that is tracked onto the public streets shall be removed the same day. If the amount tracked on the public street is excessive, cleaning may be required more frequently including by mechanical street sweeper.

### **703.3 RESTORATION**

Restoration measures shall be installed only during the growing season, to enable them to take root. Any areas that do not take root, or that fail to grow, shall be replaced in an adequate time frame to minimize soil erosion. Adequate watering shall be provided to allow for the plantings survival. Final stabilization shall be in accordance with the Illinois Urban Manual standards.

### **703.4 TREE PROTECTION**

Tree protection shall be provided for all trees shown on the plans to be saved within the limits of construction, or as directed by the Engineer. Tree protection shall be installed prior to the start of any clearing or removal work and shall remain protected through the duration of construction.

### **703.5 PLANTINGS**

Plantings shall be planted per the approved landscape plan taking care not to damage the existing root system.

## **704 INSPECTION & TESTING**

### **704.1 INSPECTION**

It is the responsibility of the owner or his designee to inspect or to have inspected all temporary erosion control measures per the requirements of the NPDES permit and correct any deficiencies as needed.

On-site grading inspection will generally be limited to visual inspections of the materials used and the condition of the site prior to seeding. There will also be a verification that all required testing is completed for areas of embankment. As-built or record drawings must be submitted per the Wood Dale Standard Specifications to verify that the grading substantially meets the requirements of the city standards.

A visual inspection of the landscaping will be performed following installation. The health of the plant material will be periodically reviewed and replacement may be required up to 12 months following the installation.

### **704.2 TESTING**

Compaction testing of any embankment will be required per Article 205 of the IDOT Standard Specifications.

No formal testing will be required for landscaping and erosion control devices unless otherwise directed by the City Engineer.

# STANDARD GENERAL NOTES

## **Transportation, Engineering and Standard Construction Plan Notes**

The City of Wood Dale has established Standard Notes, which should be included in the final engineering plans for private development projects. The Standard Notes are broken out by type of work. The Consultant designing the final engineering plans should review the lists below to determine which Standard Notes should be included.

### **General Notes:**

The General Notes in this section should be included in all final engineering plans regardless of the type of project.

1. THE OWNER OR HIS/HER/THEIR REPRESENTATIVE IS RESPONSIBLE TO OBTAIN ANY AND ALL PERMITS REQUIRED BY APPLICABLE GOVERNMENTAL AGENCIES.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF WOOD DALE DESIGN MANUAL AND STANDARD SPECIFICATIONS (CURRENT EDITION) AND WITH THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (CURRENT EDITION).
3. THE CONTRACTOR SHALL GIVE NOTICES AND COMPLY WITH APPLICABLE LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ALL PUBLIC AUTHORITIES BEARING ON SAFETY OR PERSONS OR PROPERTY ON THEIR PROTECTION FROM DAMAGE, INJURY, OR LOSS.
4. THE CONTRACTOR/DEVELOPER ASSUMES ALL RESPONSIBILITY AND LIABILITY FOR ANY ACTION RESULTING FROM THEIR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
5. THE CONTRACTOR/DEVELOPER SHALL INDEMNIFY AND HOLD HARMLESS THE CITY OF WOOD DALE AND ITS DESIGNEES.
6. PRIOR TO COMMENCEMENT OF ANY OFF-SITE CONSTRUCTION, THE CONTRACTOR SHALL SECURE WRITTEN AUTHORIZATION THAT ALL OFF-SITE EASEMENTS HAVE BEEN SECURED AND THAT PERMISSION HAS BEEN GRANTED TO ENTER ONTO PRIVATE PROPERTY.
7. THE CONTRACTOR AND THEIR ON-SITE REPRESENTATIVES WILL BE REQUIRED TO ATTEND A PRE-CONSTRUCTION MEETING WITH THE CITY OF WOOD DALE PRIOR TO ANY WORK BEING STARTED. A PRE-CONSTRUCTION MEETING WILL NOT BE SCHEDULED UNTIL THE PROJECT HAS BEEN APPROVED BY THE CITY OF WOOD DALE DEVELOPMENT REVIEW TEAM AND THE REQUIRED SURETY HAS BEEN POSTED.

8. NO EXTRA WORK OF ANY NATURE SHALL BE UNDERTAKEN WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE CITY OF WOOD DALE OR THEIR REPRESENTATIVES.
9. A MINIMUM OF 48 HOURS NOTICE SHALL BE GIVEN TO THE CITY OF WOOD DALE PRIOR TO STARTING WORK OR RESTARTING WORK AFTER SOME ABSENCE OF WORK FOR ANY REASON.
10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ADEQUATELY IDENTIFY AND LOCATE ALL EXISTING UTILITIES PRIOR TO EXCAVATION. BEFORE STARTING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT JULIE FOR THE LOCATION OF ANY AND ALL UTILITIES. THE TOLL-FREE NUMBER IS 800-892-0123. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY PRIVATE FACILITIES OR NON-JULIE MEMBER FACILITIES.
11. THE CONTRACTOR CAN SCHEDULE ALL NECESSARY SITE INSPECTIONS WITH THE CITY OF WOOD DALE BY CALLING (630) 766-5133 BETWEEN THE HOURS OF 8:30AM AND 4:00PM ON WEEKDAYS WHEN THE CITY IS OPEN FOR BUSINESS. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE THE SITE PERMIT NUMBER FOR THE PROJECT IN ORDER TO SCHEDULE THE INSPECTION(S).
12. RECORD DRAWINGS ARE REQUIRED TO BE SUBMITTED AND APPROVED BY THE CITY OF WOOD DALE PRIOR TO FINAL OCCUPANCY BEING GRANTED.
13. THE CONTRACTOR IS RESPONSIBLE FOR FURNISHING ALL STAKING AND LAYOUT OF THE GRADING, UNDERGROUND, AND PAVING IMPROVEMENTS.
14. THE CONTRACTOR IS REQUIRED TO RELOCATE, SALVAGE, AND RE-ERECT SIGNS WHICH INTERFERE WITH HIS CONSTRUCTION OPERATIONS, AND TEMPORARILY RESET ALL SUCH SIGNS DURING CONSTRUCTION. THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT. ALL WORK INVOLVING SIGNS SHALL BE GOVERNED BY THE FOLLOWING REQUIREMENTS:
  - A. SIGNS SHALL NOT BE MOVED UNTIL PROGRESS OF WORK NECESSITATES IT.
  - B. EVERY SIGN REMOVED MUST BE RE-ERECTED AT A TEMPORARY LOCATION IN A WORKMANLIKE MANNER AND BE VISIBLE TO TRAFFIC FOR WHICH IT IS INTENDED. ALL SUCH SIGNS MUST BE MAINTAINED STRAIGHT AND CLEAN FOR THE DURATION OF THE TEMPORARY SETTING.



C. ALL SIGNS SHALL BE RE-ERECTED IN PERMANENT LOCATIONS AS THE ROADWAY IS COMPLETED AT LOCATIONS DESIGNATED BY THE ENGINEER.

15. FINAL ACCEPTANCE OF PUBLIC IMPROVEMENTS SHALL BE GRANTED ONLY AFTER A FINAL INSPECTION HAS BEEN COMPLETED AND HAS REVEALED THAT ALL IMPROVEMENTS HAVE BEEN SATISFACTORILY COMPLETED IN ACCORDANCE WITH THE WOOD DALE STANDARD SPECIFICATIONS. UTILITIES ARE NOT CONSIDERED ACCEPTED UNTIL THEY ARE FORMALLY ACCEPTED BY THE CITY COUNCIL AS REQUIRED IN ACCORDANCE WITH THE WOOD DALE MUNICIPAL CODE.

**General Notes (Project Specific):**

Review the following General Notes to determine if they are applicable to the work to be completed with the project. Those Notes that are applicable should be included in the engineering plans.

1. TRAFFIC SIGNALS AND THEIR ASSOCIATED EQUIPMENT UNDER THE JURISDICTION OF DUPAGE COUNTY ARE NOT INCLUDED IN THE JULIE SYSTEM. THE CONTRACTOR SHALL CONTACT DUPAGE COUNTY DOT AND IDOT DIRECTLY REGARDING THE LOCATION OF TRAFFIC SIGNALS (CABLING AND ASSOCIATED SYSTEMS) UNDER DUPAGE COUNTY OR IDOT JURISDICTION.

**Earth Excavation:**

These notes should be included in all plans where earth moving operations will be taking place unless a duplicate of a note from another section.

1. EXCAVATION REQUIRED TO CONSTRUCT THE PROPOSED SUBGRADE OF THE ROADWAY, ALL CONCRETE CURB AND GUTTER TYPES, DRIVEWAYS, ALLEYS OR SIDE ROAD APPROACHES SHALL BE CONSIDERED INCIDENTAL TO PAVEMENT AND CURB REMOVAL.
2. PAVEMENT REMOVAL INCLUDES THE EXISTING PAVEMENT, AGGREGATE SUBBASE, AND SUBGRADE TO THE PROPOSED SUBGRADE ELEVATIONS SHOWN IN THE PLANS.
3. WHERE WORKING CONDITIONS AND RIGHT-OF-WAY PERMIT, PIPE LINE TRENCHES WITH SLOPING SIDES MAY BE USED.
  - A. THE SLOPES SHALL NOT EXTEND BELOW THE TOP OF THE PIPE, AND TRENCH EXCAVATIONS BELOW THIS POINT SHALL BE MADE WITH VERTICAL SIDES WITH WIDTHS NOT EXCEEDING THOSE SPECIFIED HEREIN FOR THE VARIOUS SIZES OF PIPES.

- B. OPEN-CUT TRENCHES SHALL BE SUPPORTED WITH PROTECTIVE MEASURES AS REQUIRED BY THE GOVERNING STATE AND FEDERAL LAWS AND MUNICIPAL ORDINANCES, AS MAY BE NECESSARY TO PROTECT LIFE, PROPERTY, OR THE WORK.
  - C. WHERE FIRM FOUNDATION IS NOT ENCOUNTERED AT THE GRADE ESTABLISHMENT DUE TO UNSUITABLE SOIL, ALL SUCH UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH APPROVED COMPACTED GRANULAR MATERIAL. THIS WORK SHALL BE PAID FOR AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL AND POROUS GRANULAR EMBANKMENT, SUBGRADE.
- 4. THE SUBGRADE SHALL BE FREE FROM UNSUITABLE MATERIAL AND SHALL BE COMPACTED TO A MINIMUM OF NINETY-FIVE PERCENT (95%) OF MODIFIED PROCTOR DENSITY. THIS REQUIREMENT APPLIES TO ALL SUBGRADES AND AGGREGATE BASE COURSES IN THE CONTRACT INCLUDING ROADWAY AND SIDEWALK PAVEMENTS. THE CITY OF WOOD DALE WILL REQUIRE A PROOF-ROLL TEST FOR DETERMINING THE STABILIZATION OF THE SUBGRADE.
  - 5. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).

**Utilities:**

This section is for general topics related to all utilities.

- 1. WATER MAINS AND WATER SERVICE LINES SHALL BE PROTECTED FROM SANITARY SEWERS, STORM SEWERS, COMBINED SEWERS, HOUSE SEWER SERVICE CONNECTIONS, AND DRAINS AS FOLLOWS:
  - A. HORIZONTAL SEPARATION - WATER MAINS AND SEWERS
    - (1) WATER MAINS SHALL BE LOCATED AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION.
    - (2) WATER MAIN MAY BE LOCATED CLOSER THAN TEN (10) FEET TO A SEWER LINE WHEN:
      - (A) LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN (10) FEET AND;
      - (B) THE WATER MAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER; AND

(C) THE WATER MAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER, MAINTAINING THE MINIMUM VERTICALSEPARATION OF 18 INCHES.

(3) WHEN IT IS IMPOSSIBLE TO MEET EITHER (A.) OR (B.), BOTH THE WATER MAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, OR PVC PIPE MEETING THE REQUIREMENTS OF WATER MAIN STANDARDS OF CONSTRUCTION. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.

B. VERTICAL SEPARATION - WATER MAINS AND SEWERS

(1) A WATER MAIN SHALL BE LAID SO THAT ITS INVERT IS A MINIMUM OF 18 INCHES ABOVE THE CROWN OF THE DRAIN OR SEWER WHENEVER WATER MAINS CROSS STORM SEWERS, SANITARY SEWERS OR SEWER SERVICE CONNECTIONS. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN TEN (10) FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSING. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.

(2) BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, OR PVC PIPE MEETING THE REQUIREMENTS OF WATER MAIN STANDARDS OF CONSTRUCTION WHEN:

(A) IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (A.); OR

(B) THE WATER MAIN PASSES UNDER A SEWER OR DRAIN

(3) A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE INVERT OF THE SEWER OR DRAIN AND THE CROWN OF THE WATER MAIN SHALL BE MAINTAINED WHERE A WATER MAIN CROSSES UNDER A SEWER. SUPPORT THE SEWER OR DRAIN

LINES TO PREVENT SETTLING AND BREAKING THE WATER MAIN, AS APPROVED BY THE ENGINEER.

(4) CONSTRUCTION OF WATER MAIN QUALITY PIPE SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE PERPENDICULAR DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN (10) FEET.

2. THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, STORM AND SANITARY SEWERS, WATER AND SANITARY SERVICE LINES, AND OTHER UTILITY LINES ARE APPROXIMATE. THEIR EXACT HORIZONTAL AND VERTICAL LOCATIONS ARE TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR AT HIS OWN EXPENSE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL EXISTING FACILITIES SO THAT THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED, ADJUSTED, OR MOVED. IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS, THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS AS PROVIDED FOR IN THE STANDARD SPECIFICATIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL COOPERATE WITH THE CITY OF WOOD DALE IF ANY MUNICIPAL UTILITY IMPROVEMENTS ARE REQUIRED WITHIN THE DURATION OF THE CONTRACT.

**Water Main:**

The Water Main Notes in this section are intended to be included when a project includes water main work as part of the project. The Consultant should review the following Notes to determine if they are applicable to the work being completed.

1. FOR WATER MAIN SHUT OFFS, THE CONTRACTOR SHALL GIVE THE CITY A MINIMUM OF 48 HOURS NOTICE. THE CITY SHALL PROVIDE NOTIFICATION FORMS AND DETERMINE THE LIMIT OF THE AFFECTED AREAS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DISTRIBUTION OF THE NOTIFICATION FORMS TO ALL AFFECTED RESIDENTS AT LEAST 24 HOURS PRIOR TO SHUT OFF. ALL SHUT OFFS SHALL BE FOR A MAXIMUM TIME OF FOUR (4) HOURS.

2. THE CITY MAY ASSIST THE CONTRACTOR IN THE INITIAL LOCATING OF THE EXISTING SANITARY SERVICES TO THE INDIVIDUAL RESIDENCES WITHIN THE PROJECT LIMITS. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING KNOWLEDGE OF THE LOCATIONS OF THESE SERVICES. THE CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AS-BUILT KNOWLEDGE OF THE LOCATIONS OF THE NEWLY INSTALLED SERVICES AND MAINS. THE CITY WILL NOT BE RESPONSIBLE FOR LOCATING NEW MAINS OR SERVICES FOR THE CONTRACTOR. FOR THE DURATION OF THE CONTRACT, THE CONTRACTOR SHALL MAKE THE AS-BUILT UNDERGROUND UTILITY INFORMATION AVAILABLE TO THE CITY WHENEVER REQUESTED.
3. THE CONTRACTOR SHALL NOT OPEN OR SHUT ANY WATER VALVES OR FIRE HYDRANTS WITHOUT PRIOR AUTHORIZATION FROM THE CITY WATER DEPARTMENT. UNAUTHORIZED USE SHALL SUBJECT THE OFFENDER TO ARREST AND PROSECUTION.
4. ALL WATER MAIN MATERIAL SHALL BE INSPECTED BY CITY'S PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLATION.
5. THRUST BLOCKING IS REQUIRED AT ALL BENDS, TEES, CAPS, VALVES, AND HYDRANTS.
6. ALL VALVES SHALL BE INSTALLED IN VALVE VAULTS. UNLESS OTHERWISE APPROVED IN WRITING BY THE CITY OF WOOD DALE, VALVE BOXES ARE ONLY PERMITTED FOR FIRE HYDRANT AUXILIARY VALVES.
7. FLUSHING, TESTING, AND DISINFECTION PROCEDURES: FOLLOWING THE INSTALLATION OR REPAIR OF ANY WATER MAIN, SERVICE PIPES, FITTINGS, VALVES, AND HYDRANTS, AND BEFORE THESE ITEMS ARE PLACED INTO SERVICE, FLUSHING, TESTING, AND DISINFECTION MUST OCCUR ACCORDING TO THE LATEST EDITIONS OF: STANDARD SPECIFICATIONS FOR WATER AND SEWER CONSTRUCTION IN ILLINOIS, AMERICAN WATER WORKS ASSOCIATION (AWWA), CITY REQUIREMENTS, AND IN ACCORDANCE WITH THE FOLLOWING SEQUENTIAL EVENTS:
  - A. FLUSHING: PRIOR TO TESTING AND DISINFECTION PROCEDURES, FILLING AND FLUSHING OF ALL DEBRIS SHALL OCCUR ON ANY NEW OR REPAIRED WORK
  - B. HYDROSTATIC PRESSURE TEST: AFTER FLUSHING OPERATIONS, A HYDROSTATIC PRESSURE TEST OF 150 PSI SHALL OCCUR FOR A TEST PERIOD OF TWO (2) HOURS. EACH SECTION OF WATER MAIN AND CONNECTION TO BE PRESSURE TESTED SHALL BE CAREFULLY FILLED WITH WATER TO EXPEL ALL ENTRAPPED AIR AND THE TEST PRESSURE SHALL BE WITHOUT PRESSURE LOSS OR FURTHER

PRESSURE APPLICATION FOR A DURATION OF TWO (2) HOURS. SHOULD THE TEST PRESSURE DROP BELOW 145 PSI THE LINE SHALL BE PUMPED BACK UP TO 150 PSI AND THE AMOUNT OF WATER USED RECORDED. THIS PROCESS SHALL CONTINUE UNTIL THE TEST PERIOD ENDS. ALLOWABLE LEAKAGE SHALL BE PER THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS. IN THE EVENT OF UNACCEPTABLE PRESSURE LOSS, THE CONTRACTOR SHALL LOCATE AND CORRECT ALL LEAKS, AND THEN REPEAT THE HYDROSTATIC PRESSURE TEST UNTIL SATISFACTORY TO THE ENGINEER.

(1) THE CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, TOOLS AND EQUIPMENT NECESSARY TO PERFORM THE PRESSURE AND LEAKAGE TESTS. THIS COST WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN ASSOCIATED WATER MAIN ITEMS.

(2) THE CONTRACTOR SHALL SATISFACTORILY PERFORM THE PRESSURE AND LEAKAGE TEST PRIOR TO REQUESTING THE ENGINEER AND/OR BUILDING/FIRE INSPECTOR TO WITNESS THE OFFICIAL TESTS. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 48 HOURS PRIOR TO THE TIME THAT THE OFFICIAL TESTS ARE REQUESTED. DEPENDING ON TRAFFIC CONDITIONS, PUBLIC HAZARD, OR OTHER REASONS, THE ENGINEER MAY DIRECT WHEN TESTING OF NEW WORK SHALL BE CONDUCTED, AND MAY ORDER THE TESTS TO BE MADE IN RELATIVELY SHORT SECTIONS OF NEW WATER MAINS.

C. DISINFECTION: AFTER COMPLETION OF A SATISFACTORY TEST OR SERIES OF TESTS, CHLORINE SHALL BE APPLIED. AFTER 24 HOURS, THE MAIN SHALL BE FLUSHED AND WATER SAMPLES SHALL BE TAKEN BY THE CITY OF WOOD DALE'S PUBLIC WORKS DEPARTMENT. WATER SAMPLES MAY ONLY BE TAKEN MONDAY THROUGH FRIDAY, THEREFORE, CHLORINATING MAY ONLY OCCUR MONDAY THROUGH THURSDAY. CHLORINATION MAY OCCUR ON FRIDAY IF SAMPLES ARE APPROVED AND ARRANGED TO BE TAKEN ON SATURDAY (48 NOTICE REQUIRED) AND MONDAY.

**Sanitary Sewer:**

The Sanitary Sewer Notes in this section are intended to be included when a project includes sanitary sewer work as part of the project. The Consultant should review the following Notes to determine if they are applicable to the work being completed.

1. ALL SANITARY SEWER SERVICES SHALL BE INSTALLED AT A MINIMUM 1% PITCH.

2. THE UNDERGROUND CONTRACTOR IS RESPONSIBLE FOR DOCUMENTING THE LOCATION OF EACH SERVICE. A FINAL COMPILATION OF SERVICE LOCATIONS SHALL BE PROVIDED UPON COMPLETION OF THE INSTALLATION.
3. WHEN NEW SANITARY SEWER STRUCTURES ARE PROPOSED OR REQUIRED, SANITARY MANHOLES SHALL HAVE EXTERNAL CHIMNEY SEALS INSTALLED OVER THE FRAME AND AROUND THE MANHOLE TO PREVENT INFILTRATION. WHEN SANITARY FRAMES ARE INSTALLED DIRECTLY ON TOP OF FLAT TOP MANHOLE STRUCTURES, IT IS PERMISSIBLE TO INSTALL AN INTERNAL CHIMNEY SEAL PER THE MANUFACTURER'S INSTRUCTIONS.
4. WHEN NEW SANITARY SEWER MAIN AND/OR SANITARY SEWER STRUCTURES ARE PROPOSED OR REQUIRED, TESTING OF SANITARY SEWER MAIN AND SANITARY SEWER STRUCTURES, PER THE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS AND APPLICABLE CITY OF WOOD DALE STANDARDS, IS REQUIRED AFTER INSTALLATION. ANY FAILURES OR PROBLEMS IDENTIFIED REQUIRE CORRECTION BY THE CONTRACTOR.
  - A. AIR PRESSURE EXFILTRATION TESTING OF ALL SANITARY SEWER PIPE IS REQUIRED.
  - B. TESTING OF ALL SANITARY SEWER PIPE RIGID MANDREL OR BALL WITH A DIAMETER OF 95% OF THE INSIDE PIPE DIAMETER IS REQUIRED.
  - C. SANITARY SEWER PIPE SHALL BE TELEVISED USING A CLOSED CIRCUIT CAMERA AND RECORDING DEVICE. A COPY OF THE DVD VIDEO OF THE TELEVISED LINE SHALL BE SUBMITTED FOR APPROVAL.
  - D. THE CONTRACTOR SHALL BE REQUIRED TO PERFORM MANHOLE LEAKAGE TESTS ON ALL SANITARY SEWER MANHOLES IN ACCORDANCE WITH THE STANDARDS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION.

**Storm Sewer:**

The Storm Sewer Notes in this section are intended to be included when a project includes storm sewer work as part of the project. The Consultant should review the following Notes to determine if they are applicable to the work being completed.

Only those materials that are identified on the plans are required to be included. However, if the contractor requests a change to the pipe material and the associated pipe material information is not included in the engineering plans, the applicable Storm Sewer Note will need to be added to final engineering plans as part of the Field Change request.

1. NO CONNECTION TO AN EXISTING PUBLIC STORM SEWER MAY BE MADE WITHOUT PERMISSION OF THE PUBLIC WORKS DIRECTOR.
2. THE CONTRACTOR SHALL REPAIR ANY EXISTING FIELD DRAINAGE TILE DAMAGED DURING CONSTRUCTION AND PROPERLY REROUTE AND/OR CONNECT SAID TILE TO THE NEAREST STORM SEWER OUTLET. ALL LOCATIONS OF ENCOUNTERED FIELD DRAINAGE TILE SHALL BE PROPERLY INDICATED ON THE CONTRACTOR'S RECORD DRAWINGS.
3. THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND SHALL PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.
4. THE COST OF CONNECTING EXISTING STORM SEWERS AND STORM STRUCTURES TO THE PROPOSED DRAINAGE SYSTEM AND CONNECTING PROPOSED STORM SEWER TO EXISTING STRUCTURES, WHETHER A TEMPORARY OR PERMANENT CONNECTION, SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THIS ALSO INCLUDES ANY TEMPORARY STORM SEWER PIPE REQUIRED TO MAINTAIN PROPER DRAINAGE UNTIL PERMANENT SEWERS ARE CONSTRUCTED. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
5. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS, OR CATCH BASINS. HE SHALL PROVIDE FACILITIES TO TAKE IN ALL STORMWATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. HE SHALL PROVIDE AND MAINTAIN AN EFFICIENT PUMPING PLANT, IF NECESSARY, AND A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL SUCH TIME AS THE PERMANENT CONNECTIONS WITH SEWERS ARE BUILT AND IN SERVICE. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT.
6. ALL OPENINGS IN EXISTING DRAINAGE STRUCTURES AND PIPES RESULTING FROM STORM SEWER/PIPE CULVERT REMOVAL SHALL BE PLUGGED IN ACCORDANCE WITH SECTION 550.05 OF THE STANDARD SPECIFICATIONS. THE COST WILL BE INCLUDED IN THE ASSOCIATED STORM SEWER ITEM.
7. DRAINAGE STRUCTURE OFFSETS AS SHOWN ON THE PLANS ARE GIVEN TO THE CENTER OF STRUCTURES.



8. CONTRACTOR TO USE FLAT SLAB TOPS WHERE FIELD CONDITIONS PROHIBIT THE USE OF TAPERED TOPS. FLAT TOPS AND CONES ARE TO BE TURNED SO THAT THE FRAME IS CLOSEST TO THE CENTERLINE OF THE ROAD, UNLESS OTHERWISE NOTED IN THE PLANS OR AN EXISTING UTILITY PROHIBITS IT. ALL FLAT TOPS AND CONES ARE ASSUMED TO BE ECCENTRIC.
9. THE FOLLOWING MATERIALS ARE PERMITTED FOR STORM SEWER AND PIPE CULVERTS. WHERE A PARTICULAR MATERIAL IS SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS, NO OTHER KIND OF MATERIAL WILL BE PERMITTED:
  - A. REINFORCED CONCRETE PIPE (RCP) - REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C 76, CLASSES I, II, III, IV OR V. BITUMINOUS JOINTS SHALL CONFORM TO ASTM DESIGNATIONS C 14 OR C 76 AS MAY BE APPLICABLE. BITUMINOUS MATERIAL SHALL CONSIST OF A HOMOGENEOUS BLEND OF BITUMEN, INERT FILLER, AND SUITABLE SOLVENT APPROVED BY THE CITY. RUBBER GASKET JOINTS SHALL CONFORM TO ASTM C 433. REINFORCED CONCRETE PIPE SHALL ALSO BE PERMITTED AS ROUND, ELLIPTICAL, OR BOX SHAPED OR AS REINFORCED CONCRETE ARCH CULVERT.
  - B. NON-REINFORCED CONCRETE PIPE - NON-REINFORCED CONCRETE PIPE SHALL BE ALLOWED FOR PIPES WITH A 10 INCH OR SMALLER DIAMETER. NON-REINFORCED CONCRETE PIPE SHALL CONFORM TO ASTM DESIGNATION C 14, CLASS 3. BITUMINOUS JOINTS SHALL CONFORM TO ASTM DESIGNATIONS C 14 OR C 76 AS MAY BE APPLICABLE. BITUMINOUS MATERIAL SHALL CONSIST OF A HOMOGENEOUS BLEND OF BITUMEN, INERT FILLER, AND SUITABLE SOLVENT APPROVED BY THE CITY. RUBBER GASKET JOINTS SHALL CONFORM TO ASTM C 433.
  - C. DUCTILE IRON PIPE (DIP) - DUCTILE IRON PIPE SHALL CONFORM TO ANSI A 21.51 (AWWA C-151), CLASS THICKNESS DESIGNED PER ANSI A 21.50 (AWWA C-150), TAR (SEAL) COATED AND CEMENT LINED PER ANSI A 21.4 (AWWA C-104), WITH MECHANICAL OR RUBBER RING (SLIP SEAL OR PUSH ON) JOINTS. ALL DUCTILE IRON PIPE SHALL BE WRAPPED WITH POLYETHYLENE.
  - D. POLYVINYL CHLORIDE PIPE (PVC) - POLYVINYL CHLORIDE (PVC) PIPE SHALL CONFORM TO ASTM D 3034, TYPE PSM. THE MINIMUM STANDARD DIMENSION RATIO (SDR) SHALL BE 26. THE PIPE SHALL BE MADE OF PVC PLASTIC HAVING A MINIMUM CELL CLASSIFICATION OF 12454-C, AND SHALL HAVE A MINIMUM PIPE STIFFNESS OF FORTY-SIX (46) LBS. PER INCH (317 KPA). JOINTS FOR

PVC PIPE SHALL BE FLEXIBLE ELASTOMETRIC SEALS PER ASTM D 3212.

- E. HIGH DENSITY POLYETHYLENE PIPE (HDPE) - HIGH-DENSITY POLYETHYLENE (HDPE) PIPE SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M 252 AND M 294. PIPE AND FITTINGS SHALL BE MADE FROM VIRGIN PE COMPOUNDS WHICH CONFORM TO THE REQUIREMENTS OF CELL CLASS 324420C AS DEFINED AND DESCRIBED IN ASTM D 3350. RUBBER GASKET JOINTS SHALL BE USED.
  - F. FULLY GALVANIZED CORRUGATED STEEL PIPE - FULLY GALVANIZED CORRUGATED STEEL PIPE MAY BE USED FOR RESIDENTIAL DRIVEWAY CROSSINGS ONLY WHEN A DITCH SECTION IS PRESENT. THE MINIMUM CULVERT SIZE IS 12" DIAMETER.
10. BEDDING, OTHER THAN CONCRETE EMBEDMENT, SHALL CONSIST OF GRAVEL, CRUSHED GRAVEL, OR CRUSHED STONE 1/4 INCH TO 1 INCH IN SIZE. AS A MINIMUM, THE MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-7 OR CA-11 OF THE STANDARD SPECIFICATIONS.
  11. WHEN THE REQUIRED VERTICAL AND HORIZONTAL CLEARANCES, AS SPECIFIED BY THE IEPA, BETWEEN PROPOSED STORM SEWER AND EXISTING OR PROPOSED WATER MAIN CANNOT BE MET, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
  12. BACKFILL MATERIAL SHALL CONFORM TO THE REQUIREMENTS OF IDOT STANDARD SPECIFICATIONS. THE GRADATION SHALL CONFORM TO GRADATION CA-6 OF THE STANDARD SPECIFICATIONS. BACKFILL MATERIAL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY.
  13. JOINTS CONNECTING DISSIMILAR PIPE MATERIALS SHALL BE MADE WITH SEWER CLAMP NON-SHEAR TYPE COUPLINGS; CASCADE CSS, ROMAC LSS, FERNCO, INC. SHEAR RING, OR APPROVED EQUAL. WHEN AVAILABLE, A STANDARD JOINT WITH A TRANSITION GASKET MAY BE USED. THE NAME OF THE MANUFACTURER, CLASS, AND DATE OF ISSUE SHALL BE CLEARLY IDENTIFIED ON ALL SECTIONS OF PIPE. THE CONTRACTOR SHALL ALSO SUBMIT BILLS OF LADING, OR OTHER QUALITY ASSURANCE DOCUMENTATION WHEN REQUESTED BY THE CITY. ALL NUTS AND BOLTS FOR COUPLINGS SHALL BE STAINLESS STEEL.
  14. MANHOLES FOR STORM SEWERS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 48 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST

EDITION) AND SHALL CONFORM TO THE CITY OF WOOD DALE STANDARD DETAIL. ALL MANHOLES SHALL BE WATER-TIGHT. ALL VISIBLE LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY.

15. MANHOLES SHALL BE FURNISHED WITH A SELF-SEALING FRAME AND SOLID COVER (EAST JORDAN IRON WORKS 1022 WITH TYPE A SOLID COVER, OR APPROVED EQUAL) IT SHALL HAVE CAST INTO THE LID "CITY OF WOOD DALE" AND THE WORD "STORM" IMPRINTED ON THE COVER IN RAISED LETTERS. ALL FRAMES AND LIDS SHALL MEET OR EXCEED AASHTO H-20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT. BOTH THE MANHOLE FRAME AND COVER SHALL HAVE MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. INVERTED MANHOLE FRAMES ARE NOT ALLOWED. PICK HOLES SHALL NOT CREATE OPENINGS IN THE MANHOLE COVER.
16. MANHOLE STEPS ON MAXIMUM 16 INCH CENTER SHALL BE FURNISHED WITH EACH MANHOLE, SECURELY ANCHORED IN PLACE, TRUE TO VERTICAL ALIGNMENT, IN ACCORDANCE WITH THE WOOD DALE STANDARD DETAILS. STEPS SHALL BE COPOLYMER POLYPROPYLENE REINFORCED WITH 1/2 INCH A615/A615M-05A (OR LATEST EDITION) GRADE 60 STEEL REINFORCEMENT, MEETING OR EXCEEDING ASTM C 478-05 (OR LATEST EDITION) AND OSHA STANDARDS.
17. CATCH BASINS AND INLETS SHALL HAVE A MINIMUM INSIDE DIAMETER OF 24 INCHES AND SHALL BE CONSTRUCTED OF PRECAST CONCRETE UNITS IN ACCORDANCE WITH ASTM C478-05 (OR LATEST EDITION) AND SHALL CONFORM TO THE CITY OF WOOD DALE STANDARD DETAIL. ALL CATCH BASINS AND INLETS SHALL BE WATER-TIGHT AT ALL POINTS BELOW GRADE. ALL VISIBLE LEAKS SHALL BE SEALED IN A MANNER ACCEPTABLE TO THE CITY. CATCH BASINS AND INLETS SHALL BE FURNISHED WITH A FRAME AND GRATE BASED UPON THE LOCATION OF THE INSTALLATION AS LISTED BELOW. ALL FRAMES AND GRATES SHALL MEET OR EXCEED AASHTO H-20 LOADING SPECIFICATIONS. FRAMES SHALL BE SHOP PAINTED WITH ASPHALTIC BASE PAINT.
  - A. PAVEMENT: EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, OR APPROVED EQUAL.
  - B. BARRIER CURB AND GUTTER: EAST JORDAN IRON WORKS 7220 FRAME WITH TYPE M1 GRATE AND T1 CURB BOX, OR APPROVED EQUAL.
  - C. DEPRESSED CURB: EAST JORDAN IRON WORKS 5120 FRAME AND GRATE, OR APPROVED EQUAL.

- D. MOUNTABLE CURB: EAST JORDAN IRON WORKS 7525 FRAME AND GRATE, OR APPROVED EQUAL.
- E. NON-PAVED AREAS: EAST JORDAN IRON WORKS 6527 BEEHIVE GRATE, OR APPROVED EQUAL. ALTERNATELY, IN AREAS WHERE THERE IS THE LIKELIHOOD OF PEDESTRIAN TRAFFIC, EAST JORDAN IRON WORKS 1022 FRAME WITH TYPE M1 RADIAL FLAT GRATE, OR APPROVED EQUAL MAY BE USED.
18. THE STEEL CASING PIPE SHALL BE BITUMINOUS COATED, A MINIMUM OF 30 MILS THICKNESS INSIDE AND OUT, AND SHALL BE OF LEAK PROOF CONSTRUCTION, CAPABLE OF WITHSTANDING THE ANTICIPATED LOADINGS. SEE TABLE 200-1 IN THE WOOD DALE STANDARD SPECIFICATIONS FOR THE MINIMUM WALL THICKNESSES OF VARIOUS STEEL CASING DIAMETERS.
- THE STEEL CASING PIPE SHALL HAVE MINIMUM YIELD STRENGTH OF 35,000 PSI AND SHALL MEET THE REQUIREMENTS OF A139/A139M-04 (OR LATEST EDITION), GRADE B. RING DEFLECTION SHALL NOT EXCEED 2% OF THE NOMINAL DIAMETER. THE STEEL CASING PIPE SHALL BE DELIVERED TO THE JOBSITE WITH BEVELED ENDS TO FACILITATE FIELD WELDING.
19. ALL PIPE SHALL BE LAID TRUE TO LINE AND GRADE. DIRT AND OTHER FOREIGN MATERIAL SHALL BE PREVENTED FROM ENTERING THE PIPE OR PIPE JOINT DURING HANDLING OR LAYING OPERATIONS. ALL STORM SEWER PIPE TO PIPE CONNECTIONS SHALL BE SEALED WITH BUTYL MASTIC TO ENSURE WATER TIGHTNESS. LIFT HOLES TO BE SEALED USING BUTYL MASTIC AND CONCRETE PLUGS. AT NO TIME SHALL CONNECTIONS BETWEEN THE TWORM SEWER AND SANITARY SEWER BE ALLOWED.
20. FOR STRUCTURES LOCATED IN PAVED AREAS, A MINIMUM OF FOUR, 2-INCH DIAMETER HOLES SHALL BE DRILLED OR PRECAST INTO THE STRUCTURE WITHIN 1 FOOT OF THE LOWEST PIPE INVERT. THE HOLES SHALL BE DISTRIBUTED EQUIDISTANT AROUND THE PERIMETER OF THE STRUCTURE. A 1-FOOT BY 1-FOOT SECTION OF UNDERDRAIN FILTER CLOTH MATERIAL SHALL BE SUFFICIENTLY FIXED TO THE OUTSIDE OF THE MANHOLE WITH MASTIC MATERIAL TO PREVENT SLIPPAGE DURING BACKFILLING.
21. ALL STORM SEWER STRUCTURE FRAMES WITHOUT INSIDE FLANGES SHALL BE SHAPED WITH NON-SHRINKING HYDRAULIC CEMENT TO FORM A FILLET TO THE STRUCTURE OR ADJUSTING RING.

WHEN ADJUSTMENTS ARE NECESSARY, THEY SHALL BE PERFORMED WITH A MAXIMUM OF 2 PRECAST CONCRETE RINGS SET IN A CONTINUOUS LAYER OF PREFORMED BITUMINOUS MASTIC. THE MAXIMUM HEIGHT OF

ADJUSTMENTS SHALL BE 12 INCHES. TWO INCH CONCRETE RINGS SHALL ONLY BE USED WHEN THE ADJUSTMENT IS LESS THAN 3 INCHES.

ADJUSTMENTS LESS THAN 4 INCHES MAY BE MADE USING HARD COMPOSITE RUBBER TYPE RINGS, SUCH AS GNR OR APPROVED EQUAL. ONLY ONE TYPE OF ADJUSTING RING MAY BE USED ON A STRUCTURE; COMBINING BOTH CONCRETE AND HARD COMPOSITE RUBBER RINGS ON A STRUCTURE IS NOT PERMITTED.

**Erosion Control and Drainage Notes (General):**

The Erosion Control and Drainage Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

1. THE CONTRACTOR SHALL MAINTAIN PROPER DRAINAGE AT ALL TIMES DURING THE COURSE OF CONSTRUCTION AND PREVENT STORM WATER FROM RUNNING INTO OR STANDING IN EXCAVATED AREAS.
2. DURING EXTENDED DRY PERIODS, THE CONSTRUCTION AREA(S) MAY NEED TO BE WATERED DOWN TO PREVENT THE BLOWING OF SOIL FROM THE SITE.
3. DURING CONSTRUCTION, A STABILIZED CONSTRUCTION ENTRANCE SHALL BE UTILIZED TO MINIMIZE THE TRACKING OF DIRT ONTO THE PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO KEEP PUBLIC STREET PAVEMENT CLEAN OF DIRT AND DEBRIS. ANY DIRT THAT IS TRACKED ONTO THE PUBLIC STREETS SHALL BE REMOVED THE SAME DAY. IF THE AMOUNT TRACKED ON THE PUBLIC STREET IS EXCESSIVE, CLEANING MAY BE REQUIRED MORE FREQUENTLY.

**Erosion Control and Drainage Notes (Project Specific):**

The Erosion Control and Drainage Notes in this section are intended to be included when a project includes erosion control work as part of the project. The Consultant should review the following Notes to determine if they are applicable to the work being completed.

1. ALL EROSION CONTROL MEASURES SHALL BE PROPERLY INSTALLED, AS PERMITTED, PRIOR TO ANY LAND DISTURBANCE ACTIVITIES. ALL EROSION CONTROL SHALL BE MAINTAINED UNTIL TURF IS ESTABLISHED.
2. ACCEPTABLE PERIMETER EROSION CONTROL INCLUDES SILT FENCE, SILT WORM AND ANY OTHER APPLICATION APPROVED BY THE CITY.
3. ALL OPEN GRATE STRUCTURES SHALL HAVE EROSION CONTROL PROTECTION IN ACCORDANCE WITH THE APPROVED EROSION CONTROL PLANS. INLET BASKETS ARE THE PREFERRED METHOD; STRAW BALES SHALL NOT BE USED.

4. STOCKPILES NOT BEING DISTURBED FOR MORE THAN 14 DAYS SHALL BE SEEDED.
5. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY, AFTER ANY 0.5 INCH RAINFALL, OR MORE FREQUENTLY AS NECESSARY TO MAINTAIN THEIR FUNCTION.

**Erosion Control and Drainage Notes (NPDES Permit):**

The Erosion Control and Drainage Note in this section should be included if the project requires an NPDES permit.

IT IS THE RESPONSIBILITY OF THE OWNER OR HIS DESIGNEE TO INSPECT ALL TEMPORARY EROSION CONTROL MEASURES PER THE REQUIREMENTS OF THE NPDES PERMIT AND CORRECT ANY DEFICIENCIES AS NEEDED.

**Geometric and Paving Notes (General):**

The Geometric and Paving Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

1. THE DEVELOPER AND CONTRACTOR SHALL HAVE THE RESPONSIBILITY TO ADEQUATELY PROTECT THE PAVEMENT AND PROPERTY, CURB AND GUTTER AND OTHER RIGHT-OF-WAY IMPROVEMENTS, WHETHER NEWLY CONSTRUCTED OR EXISTING, FROM ANY AND ALL DAMAGE. SUFFICIENT MEANS SHALL BE EMPLOYED BY THE CONTRACTOR TO PROTECT AGAINST SUCH DAMAGE TO THE SATISFACTION OF THE CITY.
2. ANY NEW OR EXISTING IMPROVEMENTS THAT ARE DAMAGED SHALL BE REPAIRED OR REPLACED IN A MANNER THAT IS SATISFACTORY TO THE CITY.
3. THE CONTRACTOR AND/OR DEVELOPER SHALL SECURE ALL NECESSARY RIGHTS AND PERMISSIONS TO PERFORM ANY WORK ON PRIVATE PROPERTY NOT WITHIN THE OWNERSHIP RIGHTS OF THE DEVELOPER. THE DEVELOPER SHALL BEAR THE SOLE RESPONSIBILITY FOR DAMAGES THAT MAY OCCUR AS A RESULT OF WORK PERFORMED UNDER CONTRACTS THEY INITIATE.
4. THE CONTRACTOR/DEVELOPER WILL BE RESPONSIBLE FOR BRINGING PAVEMENTS (STREET, CURB AND GUTTER, SIDEWALK, DRIVEWAY) ON THE PROPERTY UP TO CITY STANDARDS INCLUDING ANY REPAIRS TO SUBSTANDARD PAVEMENTS THAT EXISTED PRIOR TO OR OCCURRED DURING CONSTRUCTION.
5. WHEREVER NEW WORK WILL MEET EXISTING CONDITIONS OTHER THAN LAWN AREAS, REGARDLESS OF WHETHER THE NEW OR EXISTING WORK IS ASPHALT OR CONCRETE, THE EXISTING ADJACENT SIDEWALK, DRIVEWAYS, PAVEMENT OR CURB SHALL BE NEATLY SAW CUT. THE SAW

CUT SHALL BE IN A NEAT STRAIGHT LINE SUFFICIENTLY DEEP SO THAT IT RENDERS A SMOOTH VERTICAL FACE TO MATCH TO. IF THE CONTRACTOR IS NOT CAREFUL OR DOES NOT SAW DEEP ENOUGH AND THE CUT LINE BREAKS OUT OR CHIPS TO AN IMPERFECT EDGE, THEN THE EXISTING SIDE MUST BE RE-CUT SQUARE AND DONE OVER UNTIL IT IS.

6. DURING AND AFTER CONSTRUCTION OPERATIONS, ANY LOOSE MATERIAL INCLUDING, BUT NOT LIMITED TO, HMA, GRAVEL, TOP SOIL, ETC., ON CITY ROADWAYS AS A RESULT OF CONTRACTOR OPERATIONS, SHALL BE REMOVED AND DEPOSITED OFF SITE BY THE CLOSE OF EACH BUSINESS DAY. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT. THIS ALSO APPLIES TO EXCESSIVE PRIMER LEFT ON CITY ROADWAYS.
7. THE THICKNESS OF HMA MIXTURES SHOWN IN THE PLANS IS MINIMAL THICKNESS. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE SURFACE OR BASIS ON WHICH THEY ARE TO BE PLACED. PLAN THICKNESS SHOULD BE CONSIDERED THE MINIMUM THICKNESS PERMITTED.
8. THE CONTRACTOR SHALL SET AND CHECK ALL CURB FORMS AND STRING LINES PRIOR TO PLACING CONCRETE TO ENSURE POSITIVE DRAINAGE ALONG THE ROADWAY. IMPROPERLY DRAINING CURB SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
9. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RECONSTRUCTION (WHERE NEW PAVEMENT MEETS EXISTING HMA PAVEMENT)
10. AT ANY LOCATION WHERE THERE IS CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO SIDEWALK, THE NEW CURB SHALL BE DEPRESSED AND THE NEW SIDEWALK RAMPED TO PROVIDE ACCESSIBILITY. THIS WORK SHALL BE DONE AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH IDOT STANDARD 424001.
11. TYPE "A" SIDEWALK RAMPS FOR THE HANDICAPPED SHALL BE INSTALLED AT ALL INTERSECTING STREETS AND DETECTABLE WARNINGS SHALL BE PLACED IN SIDEWALK BEHIND DEPRESSED CONCRETE CURB AND GUTTER IN ACCORDANCE WITH IDOT STANDARD 424001, AND AS DIRECTED BY THE ENGINEER.
12. TESTING OF ROADWAY IS REQUIRED THROUGHOUT THE CONSTRUCTION PROCESS. ANY FAILURES OR PROBLEMS IDENTIFIED SHALL BE CORRECTED BY THE CONTRACTOR.
  - A. THE SUBGRADE SHALL BE PROOF ROLLED USING EITHER A SINGLE DUMP TRUCK WITH TANDEM WHEELS WITH A MINIMUM GROSS

WEIGHT OF 40 THOUSAND POUNDS OR A SEMI TRAILER DUMP TRUCK WITH TANDEM WHEELS WITH A MINIMUM GROSS WEIGHT OF 70 THOUSAND POUNDS. ANY AREAS FOUND TO BE UNSTABLE SHALL BE CORRECTED USING AN UNDERCUT DEPTH AS DIRECTED BY THE ENGINEER A POROUS GRANULAR EMBANKMENT UNDERLAIN WITH GEOTECHNICAL FABRIC.

- B. DURING PAVING OPERATIONS, THE CONTRACTOR IS REQUIRED TO HAVE A TESTING COMPANY ON SITE VERIFYING DENSITY OF THE ASPHALT MAT.

**Traffic Control and Protection Notes (General):**

The Traffic Control and Protection Notes in this section should be included in all final engineering plans regardless of the type of work in the project.

1. ALL DEVELOPERS AND CONTRACTORS SHALL PROVIDE SUITABLE TRAFFIC CONTROL FOR THEIR CONSTRUCTION ACTIVITIES IN ACCORDANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. TRAFFIC CONTROL MUST BE PROVIDED FOR ANY ACTIVITY THAT IMPACTS TRAFFIC FLOW. THIS INCLUDES, BUT IS NOT LIMITED TO, ROAD CLOSURES REQUIRING DETOURS, DAILY LANE CLOSURES, LONG TERM LANE CLOSURES, NARROW LANES, AND CONSTRUCTION VEHICLES ENTERING AND EXITING THE PUBLIC ROADWAY. ALL TRAFFIC CONTROL SET-UPS MAY BE INSPECTED BY THE CITY OF WOOD DALE TO ENSURE THAT THEY ARE PROVIDING POSITIVE GUIDANCE TO MOTORISTS AND ARE NOT IN THEMSELVES PRESENTING A HAZARDOUS SITUATION. A REPRESENTATIVE OF THE DEVELOPER OR CONTRACTOR MUST PROVIDE PHONE NUMBERS AT WHICH THEY CAN BE REACHED 24 HOURS A DAY AND ON WEEKENDS SO THAT THEY CAN MAINTAIN TRAFFIC CONTROL DEVICES.
2. PEDESTRIANS MUST BE PROVIDED WITH A SAFE ALTERNATE ROUTE IF PEDESTRIAN FACILITIES ARE TO BE CLOSED AS A RESULT OF CONSTRUCTION ACTIVITIES. GUIDANCE MUST BE PROVIDED TO PEDESTRIANS SO THAT THEY MAY AVOID THE WORK ZONE. SAID PEDESTRIAN DETOUR PLAN (WITH SIGNAGE) IS TO BE REVIEWED AND ACCEPTED BY THE CITY IN WRITING, PRIOR TO THE COMMENCEMENT OF THE WORK.
3. THE CONTRACTOR SHALL EMPLOY THE APPROPRIATE METHODS OF TRAFFIC CONTROL IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, SUCH THAT THE SAFETY OF VEHICLES, AND PEDESTRIANS IS PRESERVED AT ALL TIMES. THE ERECTION AND MAINTENANCE OF THE TRAFFIC CONTROL DEVICES SHALL BE TO THE SATISFACTION OF THE AGENCY OF JURISDICTION AND THE CITY.



4. ANY TEMPORARY OPEN HOLES SHOULD BE BARRICADED AND PROTECTED IN ACCORDANCE WITH APPLICABLE STANDARDS.

**Traffic Control and Protection Notes (Arterial Roads):**

The Traffic Control and Protection Notes in this section should be included in all final engineering plans if the project involves work either in or adjacent to arterial roadways.

1. LANE CLOSURES ON ARTERIAL ROADWAYS WITHIN THE CITY OF WOOD DALE ARE NOT PERMITTED BETWEEN THE HOURS OF 6AM-9AM AND 3PM-7PM MONDAY THROUGH FRIDAY, UNLESS OTHERWISE PERMITTED BY THE CITY. LANE CLOSURES ON ARTERIAL STREETS ARE PERMITTED BETWEEN 7AM AND 7PM ON WEEKENDS, UNLESS OTHERWISE PERMITTED BY THE CITY. ARTERIAL ROADWAYS ARE DEFINED AS BOTH MAJOR AND MINOR ARTERIAL ROADWAYS AS DESIGNATED ON THE CITY'S MASTER THOROUGHFARE PLAN, LATEST EDITION.
2. ANY WORK THAT IMPACTS A TRAFFIC LANE ON AN ARTERIAL ROADWAY REQUIRES AN ARROWBOARD AS PART OF THE TRAFFIC CONTROL.
3. AT THE END OF EACH DAY OF WORK, THE ROADWAY MUST BE COMPLETELY REOPENED TO TRAFFIC. ANY OPEN HOLES MUST BE PLATED OR COLD PATCHED; THE CITY WILL NOT ALLOW THE HOLES TO BE FILLED WITH GRAVEL.

**Traffic Control and Protection Notes (Downtown):**

The Traffic Control and Protection Notes in this section should be included in all final engineering plans if the project is located in downtown Wood Dale.

1. PEDESTRIAN TRAFFIC SHALL BE MAINTAINED IN THE DOWNTOWN. IF A PEDESTRIAN DETOUR CANNOT BE ACCOMMODATED, THE CITY MAY REQUIRE THE CONTRACTOR TO PROVIDE A PROTECTED COVERED WALKWAY.
2. ANY WORK IMPACTING THE PUBLIC RIGHT-OF-WAY SHALL NOT BE ALLOWED IN THE DOWNTOWN ON A FRIDAY, SATURDAY, SUNDAY, AND/OR HOLIDAY, UNLESS OTHERWISE PERMITTED BY THE CITY.
3. ALL WORK IN THE DOWNTOWN SHALL BE COORDINATED WITH THE DOWNTOWN WOOD DALE ALLIANCE (DNA) TO AVOID CONFLICT WITH SPECIAL EVENTS.

# 2

## **Details**

*100: General*

*200: Storm*

*300: Sanitary*

*400: Water*

*500: Roadway*

*600: Lighting & Traffic*

*700: Grading, Landscaping & Erosion Control*

# SECTION 100- GENERAL DETAILS

DIGITAL FILE LAYER SCHEME  
SAMPLE CERTIFICATION STATEMENT  
SAMPLE RECORD PLAN LEGEND

**TYPICAL LAYER SCHEME FOR DIGITAL FILES**

<b>LAYER NAME</b>	<b>Items that may be found on that layer</b>
Alignment	Centerline, base line, survey line, stationing, roadway name, bench marks, horizontal ties p.c. and p.t. stations and station equations.
Profile	Roadway profile, vertical curve data, profile elevations, roadway dimensioning, vertical ties.
Topography	Ground contours, detention and retention areas elevations, associated text.
Soil Borings	Soil boring details, plan and profile.
Vegetation	Trees, brush, hedges, forests, associated text.
Water	Lakes, rivers, streams, ponds and associated text.
Right of Way	Right of way, access control, easements and associated text.
Edge of Pavement	Streets, roads, alleys etc.
Roadway Plan	Medians, curbs, gutter, and shoulders.
Roadside Features	Sidewalks, private entrances, commercial entrances
Buildings	Buildings, fences, parking lots, advertising signs, mailboxes, associated text.
Private Boundaries	Property lines, iron pipes, concrete monuments, survey markers, section corners, ownership information.
Pavement Marking	Pavement marking lines, letters and symbols, raised pavement markers, delineators, regulatory signs and warning signs.
Traffic Signal	Traffic signal plan
Electric	Power poles, cables, control cabinets, schematics, and junction boxes
Water utility	Fire hydrants, valve vaults, pipe, buffalo box, pump stations, and storage towers.
Sanitary sewer	Manholes, pipe, lift stations, treatment plants.
Drainage	Manholes, inlets, catch basins, sewer main, overflow routes, ditch flow line, detention and retention areas.
Railroads	Control box, crossing gate, tracks, signal and overpass.
Gas	Gas main
Telephone	Telephone

These drawings shall meet all specifications described within the City Specifications. No building permits, temporary/final occupancy permits, or acceptance of facilities by the City will proceed until the reproducible documents have been submitted to:

City of Wood Dale  
Public Works Department  
720 Central Ave  
Wood Dale, IL 60191

**SAMPLE CERTIFICATION**

**STATEMENT OF OPINION**

Pursuant to the Wood Dale Municipal Code, I \_\_\_\_\_ a registered Professional Engineer in the State of Illinois, hereby declare that these "Record Drawings" pertaining to (watermain, sanitary sewer, storm sewer) (stormwater management) (outdoor lighting) consisting of sheets \_\_\_\_\_ and \_\_\_\_\_ included herewith, have been prepared for a certain project known as \_\_\_\_\_ and contain information as obtained by the surveyor \_\_\_\_\_ and the contractor \_\_\_\_\_.

It is my professional opinion that these "Record Drawings" adequately depict the Record Drawing Information required by the City of Wood Dale's "Record Drawing Procedures and Standards for Civil Engineering Site work Improvements," document bearing the effective date of \_\_\_\_\_, and substantiate that the improvements constructed as part of this project will function in substantial conformance to the design intent of the approved engineering plans.

Dated: \_\_\_\_\_

Signed: \_\_\_\_\_

Illinois Registration Number: \_\_\_\_\_

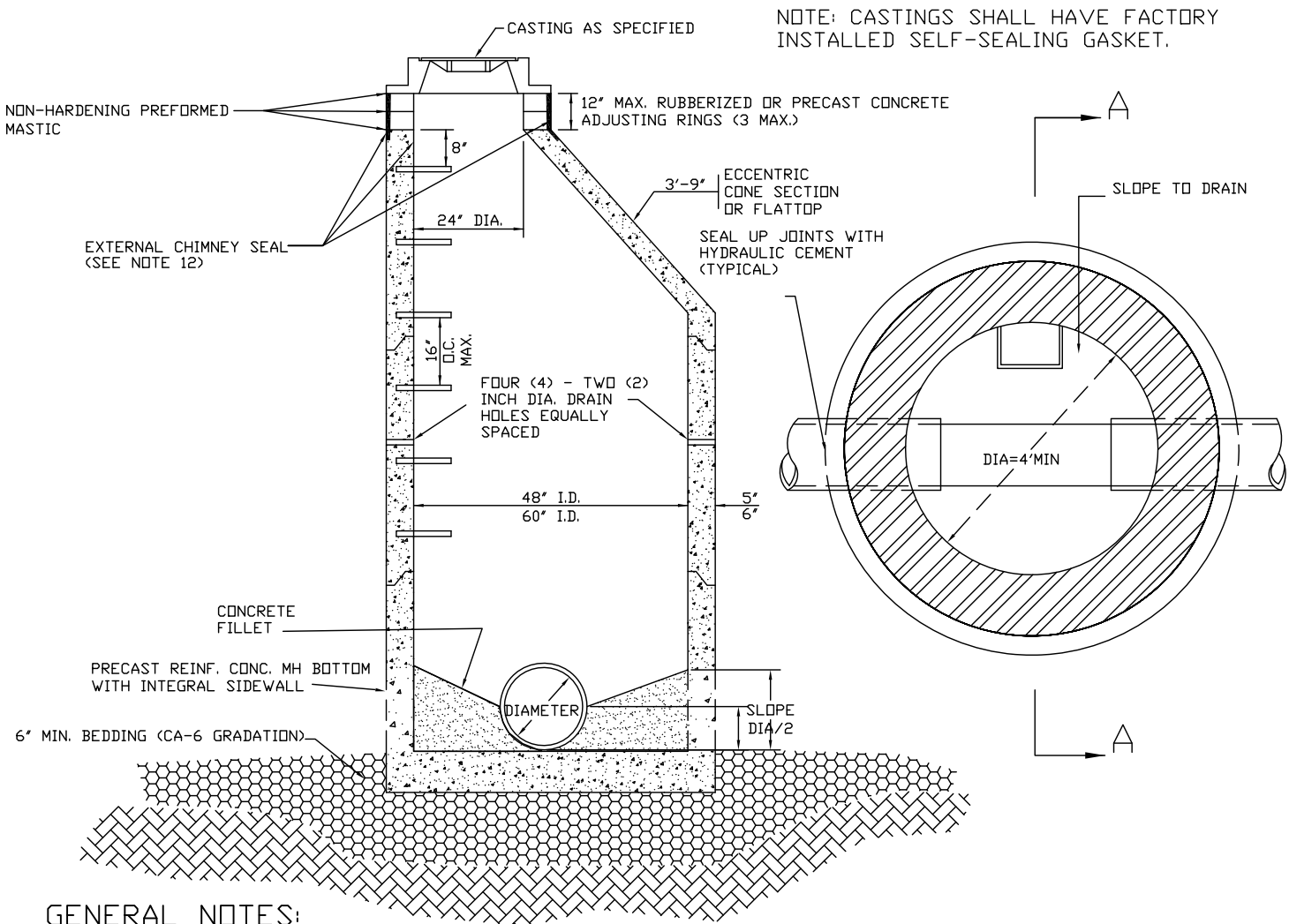
(SEAL)

**STANDARD LEGEND**

<b>RECORD PLAN FOR</b>		
<b>TYPE</b>	<b>DATE</b>	<b>P.E. INITIALS</b>
WATERMAIN SANITARY SEWER STORM SEWER		
STORMWATER MANAGEMENT		
OUTDOOR LIGHTING		

# SECTION 200- STORM SEWER

MANHOLE TYPE A  
INLET TYPE A  
CATCH BASIN TYPE A  
CATCH BASIN TYPE C  
PRECAST TEE MANHOLE  
CONNECTION BOX FOR PRECAST MANHOLE 1  
CONNECTION BOX FOR PRECAST MANHOLE 2  
CONNECTION BOX FOR PRECAST MANHOLE 3  
CASTING ADJUSTMENTS FOR STRUCTURES IN PAVED AREAS  
CASTING ADJUSTMENTS FOR STRUCTURES IN CURB LINE  
SUBSURFACE DRAIN TILE CONNECTION  
DIRECT SUBSURFACE DRAIN TILE SUMP PUMP CONNECTION  
SUBSURFACE DRAIN TILE SUMP PUMP CONNECTION  
STORM SEWER TRENCH SECTION 1  
STORM SEWER TRENCH SECTION 2  
STORM SEWER GRATE FOR BOX INLET  
MANHOLE STEP  
SILT FENCE  
RETAINING WALL 1  
RETAINING WALL 2  
SPLIT RAIL FENCE  
DRY WELL  
RESTRICTOR DETAIL  
SWALE CONSTRUCTION



NOTE: CASTINGS SHALL HAVE FACTORY INSTALLED SELF-SEALING GASKET.

**GENERAL NOTES:**

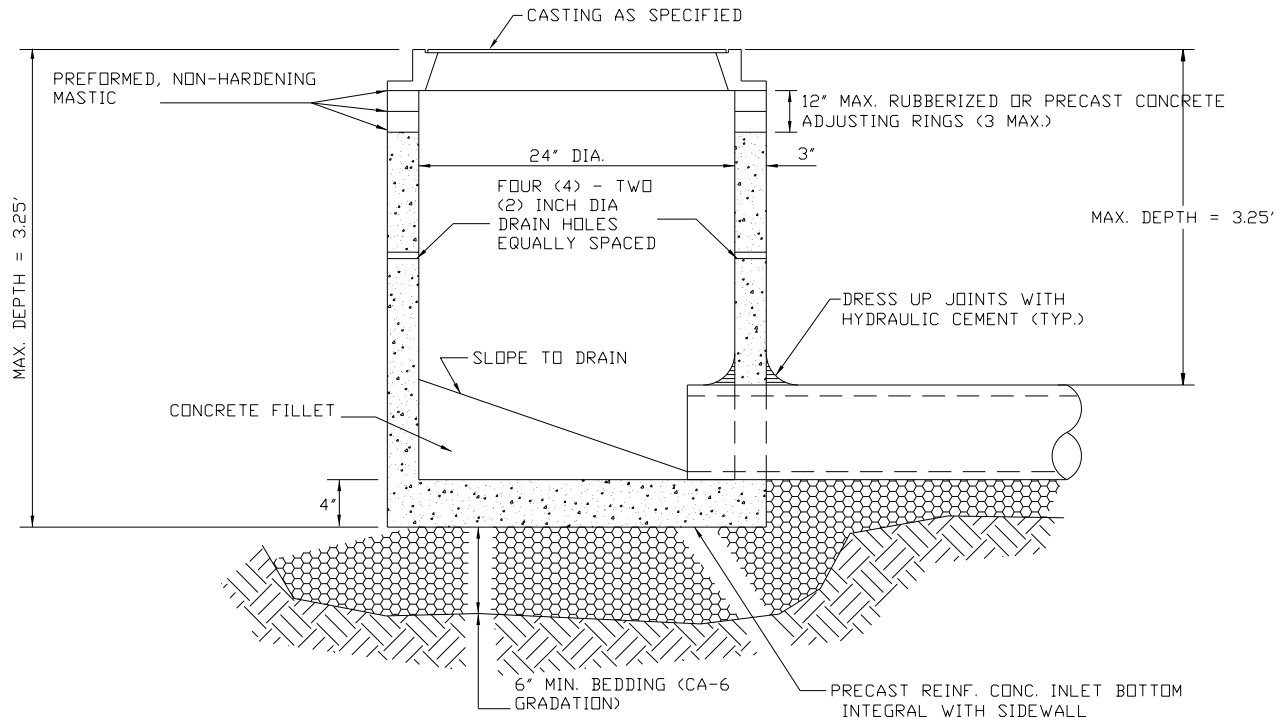
1. PROVIDE PRECAST REINFORCED CONCRETE BARREL AND RISER SECTIONS. CONCRETE BLOCK CONSTRUCTION IS NOT PERMITTED.
2. PROVIDE GRANULAR BACKFILL AROUND MANHOLE TO SUBGRADE ELEVATION IN PAVED AREAS. MATERIAL SHALL MEET THE REQUIREMENTS OF IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" FOR COARSE AGGREGATE (CA-6 GRADATION.)
3. APPLY A CONTINUOUS LAYER OF NON-HARDENING PREFORMED BITUMINOUS MASTIC MATERIAL (RUB-R-NEK OR EZ STICK) TO EACH JOINT BELOW THE BOTTOM OF CONE OR FLATTOP TO PREVENT INFLOW.
4. WHEN THE FRAME DOES NOT MEET PROPOSED ELEVATION, A MINIMUM OF TWO TAPERED RUBBERIZED ADJUSTING RINGS SHALL BE USED FOR FINAL ADJUSTMENT. ONE CONCRETE RING NOT LESS THAN TWO INCHES THICK MAY ALSO BE USED. A MAXIMUM OF THREE ADJUSTING RINGS MAY BE USED TO A MAXIMUM HEIGHT OF 12 INCHES. EACH RING AND THE FRAME SHALL BE SET IN A BED OF NON-PREFORMED MASTIC.
5. PRECAST ADJUSTING RINGS SHALL BE REINFORCED WITH NO. 3 GAUGE WIRE OR EQUIVALENT AND SHALL HAVE A MINIMUM THICKNESS OF 2 INCHES.
6. WITHIN NON-PAVED AREAS MORTAR SHALL ONLY BE USED TO DRESS UP ADJUSTING RINGS AND/OR FRAME ON THE EXTERIOR OF THE STRUCTURE. MORTAR IS NOT PERMITTED ON THE INSIDE OF THE RINGS AND/OR FRAME.
7. ONLY PLASTIC POLYMER STEPS SHALL BE USED.
8. WHEN MANHOLE DEPTH IS OVER 12 FEET, THE THICKNESS OF THE PRECAST, REINFORCED CONCRETE BASE SHALL BE A MINIMUM OF 10 INCHES. WHEN MANHOLE DEPTH IS LESS THAN 12 FEET, THE THICKNESS SHALL BE A MINIMUM OF 8 INCHES.
9. DRESS UP INTERIOR JOINTS OF PRECAST MANHOLE AND OPENINGS AROUND PIPES WITH HYDRAULIC CEMENT.
10. IN PAVED AREAS, DRAIN HOLES/WEEP HOLES SHALL BE COVERED WITH FILTER FABRIC. FILTER FABRIC SHALL BE SECURED TO THE OUTSIDE OF STRUCTURE PRIOR TO BACKFILL.
11. IN GRASSED AREAS, DRAIN HOLES/WEEP HOLES SHALL BE PLUGGED WITH HYDRAULIC CEMENT.
12. EXTERNAL CHIMNEY SEALS (UNLESS OTHERWISE DIRECTED BY CITY) SHALL BE REQUIRED UNLESS THE MANHOLE IS ADJUSTED TO FINAL GRADE IN ACCORDANCE WITH DETAIL STORM 7 - CASTING ADJUSTMENTS FOR STRUCTURES IN PAVED AREAS. EXTERNAL CHIMNEY SEALS SHALL BE CRETEX OR APPROVED EQUAL.

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**MANHOLE TYPE A**

CITY OF WOOD DALE
STORM 1 Packet Page #288





### GENERAL NOTES:

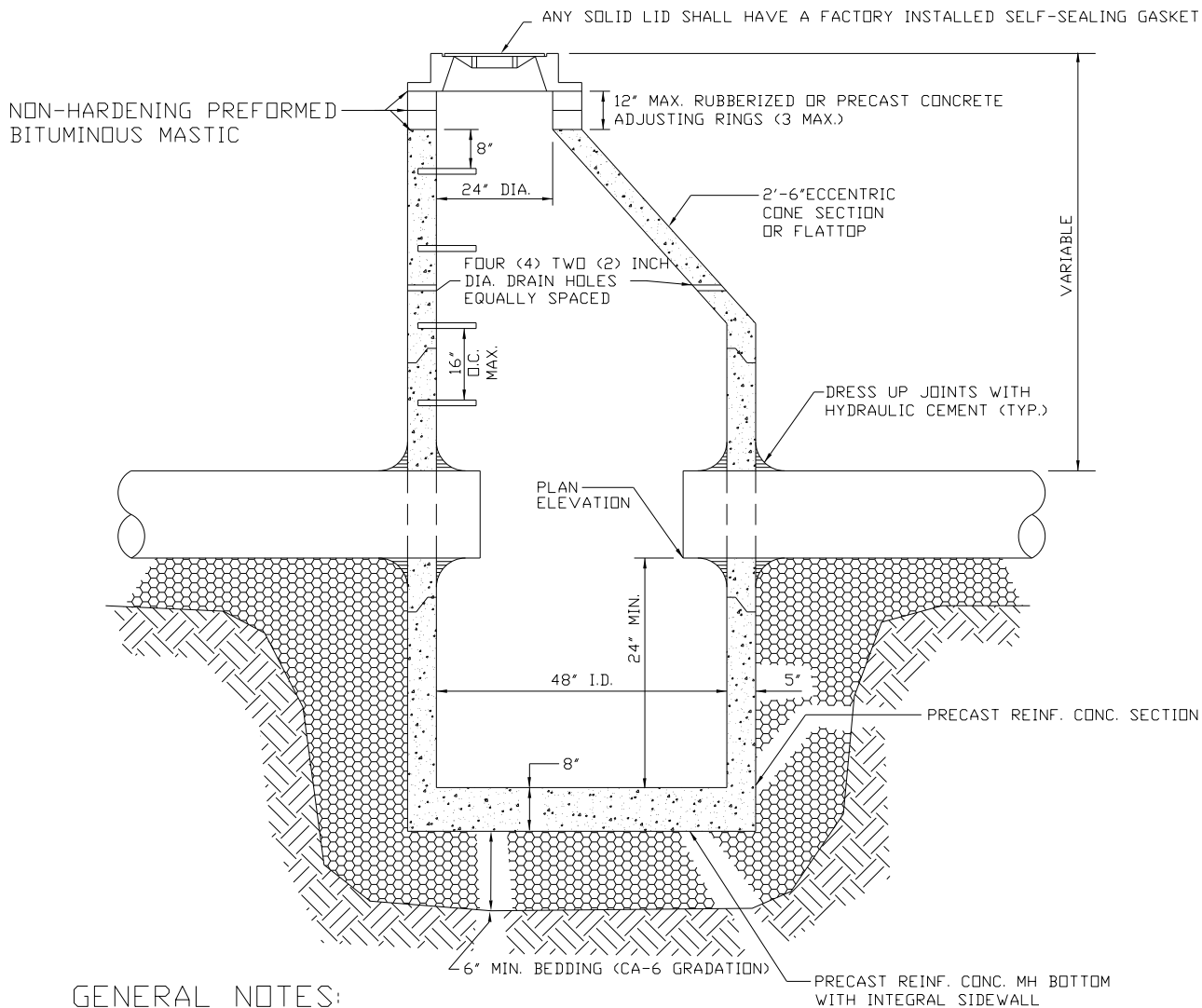
1. PROVIDE PRECAST REINFORCED CONCRETE BARREL AND RISER SECTION. CONCRETE BLOCK CONSTRUCTION IS NOT PERMITTED.
2. PROVIDE GRANULAR BACKFILL AROUND INLET TO SUBGRADE ELEVATION IN PAVED AREAS. MATERIAL SHALL MEET THE REQUIREMENTS OF IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" FOR COARSE AGGREGATE (CA-6 GRADATION).
3. WHEN THE FRAME DOES NOT MEET PROPOSED ELEVATION, A MINIMUM OF TWO TAPERED RUBBERIZED ADJUSTING RINGS SHALL BE USED FOR FINAL ADJUSTMENT. ONE CONCRETE RING NOT LESS THAN TWO INCHES THICK MAY ALSO BE USED. A MAXIMUM OF THREE ADJUSTING RINGS MAY BE USED TO A MAXIMUM HEIGHT OF 12 INCHES. THE RING(S) AND FRAME SHALL BE SET IN A BED OF PREFORMED NON-HARDENING MASTIC (RUB-R-NEK, EZ STICK OR APPROVED EQUAL).
4. PRECAST ADJUSTING RINGS SHALL BE REINFORCED WITH NO. 3 GAUGE WIRE OR EQUIVALENT AND SHALL HAVE A MINIMUM THICKNESS OF TWO INCHES.
5. MORTAR SHALL NOT BE USED TO DRESS UP ADJUSTING RINGS AND/OR FRAME.
6. IN PAVED AREAS, DRAIN HOLES/WEEP HOLES SHALL BE COVERED WITH FILTER FABRIC. FILTER FABRIC SHALL BE SECURED TO THE OUTSIDE OF STRUCTURE PRIOR TO BACKFILL.
7. IN GRASSED AREAS, DRAIN HOLES/WEEP HOLES SHALL BE PLUGGED WITH HYDRAULIC CEMENT.
8. IF AN IDOT TYPE 8 GRATE CASTING IS CALLED OUT, NO MASTIC SHALL BE ALLOWED BETWEEN THE FRAME AND THE TOP RING OR STRUCTURE. A MINIMUM OF ONE RUBBER RING 1/4" THICKNESS SHALL BE PLACED BETWEEN THE FRAME AND THE TOP RING OR STRUCTURE (EAST JORDAN INFRA-RISER c 24.0 / 36.0 F 0.25 OR APPROVED EQUAL). ALL EXCESS MATERIAL EXTENDING BEYOND THE EDGE OF THE GRATE SHALL BE TRIMMED FLUSH.

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INLET TYPE A

CITY OF WOOD DALE

STORM 2  
Packet Page #289



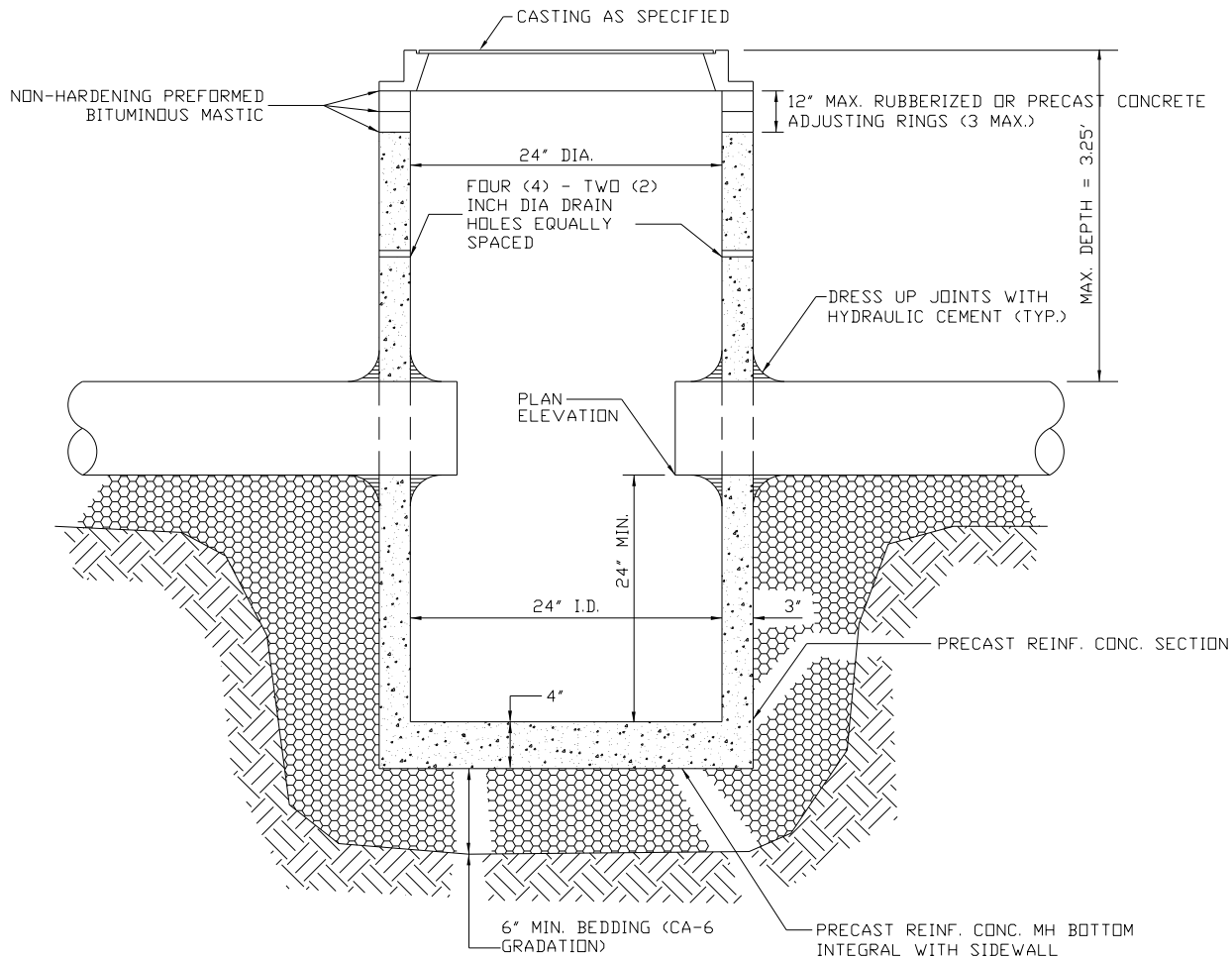
**GENERAL NOTES:**

1. PROVIDE PRECAST REINFORCED CONCRETE BARREL AND RISER SECTIONS. CONCRETE BLOCK CONSTRUCTION IS NOT PERMITTED.
2. PROVIDE GRANULAR BACKFILL AROUND CATCHBASIN TO SUBGRADE ELEVATION IN PAVED AREAS. MATERIAL SHALL MEET THE REQUIREMENTS OF IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" FOR COARSE AGGREGATE (CA-6 GRADATION).
3. APPLY A CONTINUOUS LAYER OF NON-HARDENING PREFORMED BITUMINOUS MASTIC MATERIAL (RUB-R-NEK OR E Z STICK) TO EACH JOINT BELOW THE BOTTOM OF CONE OR FLATTOP TO PREVENT INFLOW.
4. WHEN THE FRAME DOES NOT MEET PROPOSED ELEVATION, A MINIMUM OF TWO TAPERED RUBBERIZED ADJUSTING RINGS SHALL BE USED FOR FINAL ADJUSTMENT. ONE CONCRETE RING NOT LESS THAN TWO INCHES THICK MAY ALSO BE USED. A MAXIMUM OF THREE ADJUSTING RINGS MAY BE USED TO A MAXIMUM HEIGHT OF 12 INCHES. EACH RING AND THE FRAME SHALL BE SET ON A BED OF NON-PREFORMED MASTIC.
5. PRECAST ADJUSTING RINGS SHALL BE REINFORCED WITH NO. 3 GAUGE WIRE OR EQUIVALENT AND SHALL HAVE A MINIMUM THICKNESS OF TWO INCHES.
6. WITHIN NON-PAVED AREAS, MORTAR SHALL ONLY BE USED TO DRESS UP ADJUSTING RINGS AND/OR FRAMES ON THE EXTERIOR OF THE STRUCTURE. MORTAR IS NOT PERMITTED ON THE INSIDE OF THE RINGS AND/OR FRAME.
7. ONLY PLASTIC POLYMER STEPS SHALL BE USED.
8. WHEN CATCHBASIN DEPTH IS OVER 12 FEET, THE THICKNESS OF THE PRECAST, REINFORCED CONCRETE BASE SHALL BE A MINIMUM OF 10 INCHES. WHEN CATCHBASIN DEPTH IS LESS THAN 12 FEET, THE THICKNESS SHALL BE A MINIMUM OF 8 INCHES.
9. DRESS UP INTERIOR JOINTS OF PRECAST CATCHBASIN AND OPENINGS AROUND THE PIPES WITH HYDRAULIC CEMENT.
10. IN PAVED AREAS, DRAIN HOLES/WEEP HOLES SHALL BE COVERED WITH FILTER FABRIC. FILTER FABRIC SHALL BE SECURED TO THE OUTSIDE OF STRUCTURE PRIOR TO BACKFILL.
11. IN GRASSED AREAS, DRAIN HOLES/WEEP HOLES SHALL BE PLUGGED WITH HYDRAULIC CEMENT.

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**CATCH BASIN TYPE A**

CITY OF WOOD DALE
STORM 3
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GENERAL NOTES:

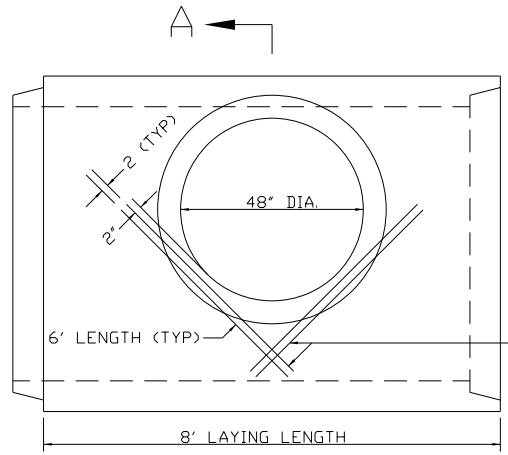
1. PROVIDE PRECAST REINFORCED CONCRETE BARREL AND RISER SECTION. CONCRETE BLOCK CONSTRUCTION IS NOT PERMITTED.
2. PROVIDE GRANULAR BACKFILL AROUND CATCH BASIN TO SUBGRADE ELEVATION IN PAVED AREAS. MATERIAL SHALL MEET THE REQUIREMENTS OF IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" FOR COARSE AGGREGATE (CA-6 GRADATION.)
3. WHEN THE FRAME DOES NOT MEET PROPOSED ELEVATION, A MINIMUM OF TWO TAPERED RUBBERIZED ADJUSTING RINGS SHALL BE USED FOR FINAL ADJUSTMENT. ONE CONCRETE RING NOT LESS THAN TWO INCHES THICK MAY ALSO BE USED. A MAXIMUM OF THREE ADJUSTING RINGS MAY BE USED TO A MAXIMUM HEIGHT OF 12 INCHES. EACH RING AND THE FRAME SHALL BE SET ON A BED OF NON-PREFORMED MASTIC.
4. PRECAST ADJUSTING RINGS SHALL BE REINFORCED WITH NO. 3 GAUGE WIRE OR EQUIVALENT AND SHALL HAVE A MINIMUM THICKNESS OF TWO INCHES.
5. MORTAR IS NOT PERMITTED ON THE INSIDE OF THE RINGS AND/OR FRAME.
6. WITHIN NON-PAVED AREAS, MORTAR SHALL ONLY BE USED TO DRESS UP ADJUSTING RINGS AND/OR FRAME ON THE EXTERIOR OF THE STRUCTURE. MORTAR IS NOT PERMITTED ON THE INSIDE OF THE RINGS AND/OR FRAME.
7. DRESS UP INTERIOR JOINTS WITH HYDRAULIC CEMENT.
8. IN PAVED AREAS, DRAIN HOLES/WEEP HOLES SHALL BE COVERED WITH FILTER FABRIC. FILTER FABRIC SHALL BE SECURED TO THE OUTSIDE OF STRUCTURE PRIOR TO BACKFILL.
9. IN GRASSED AREAS, DRAIN HOLES/WEEP HOLES SHALL BE PLUGGED WITH HYDRAULIC CEMENT.

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CATCH BASIN TYPE C

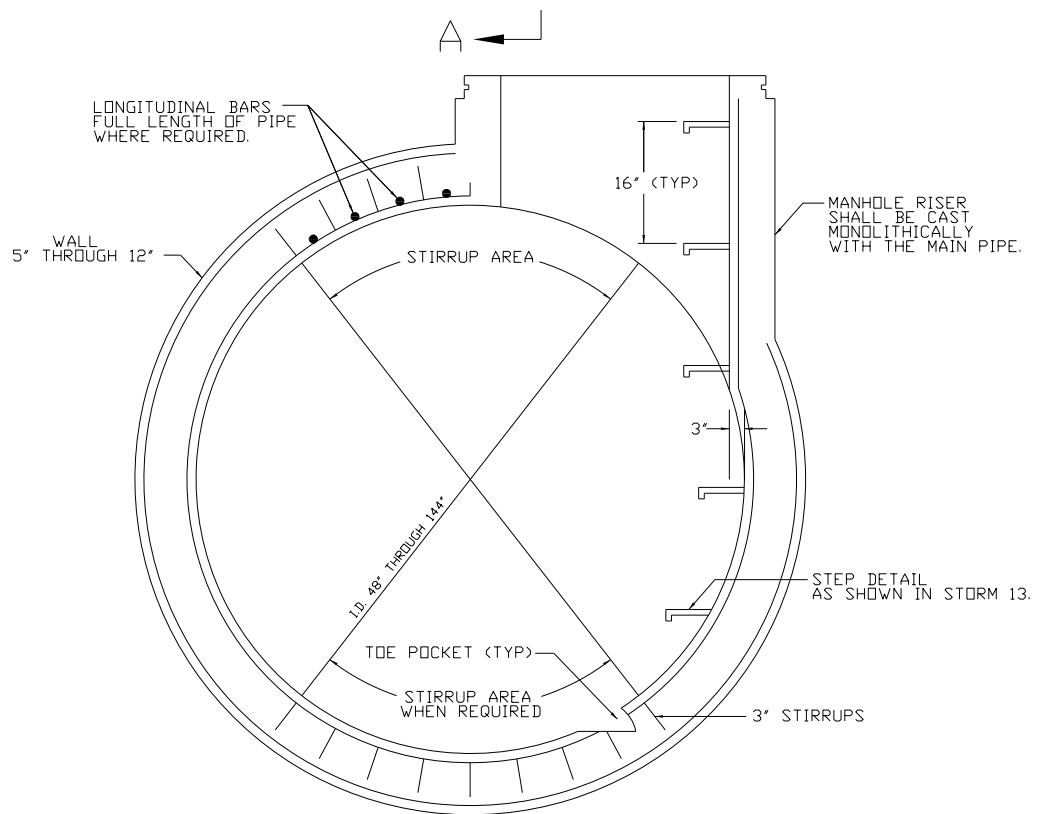
CITY OF WOOD DALE

STORM 4  
Packet Page #291



NOTE: CASTINGS SHALL HAVE FACTORY INSTALLED O-RING GASKET.

TWO #5 DIAGONAL REINFORCEMENT BARS WHEN REQUIRED.



SECTION A - A

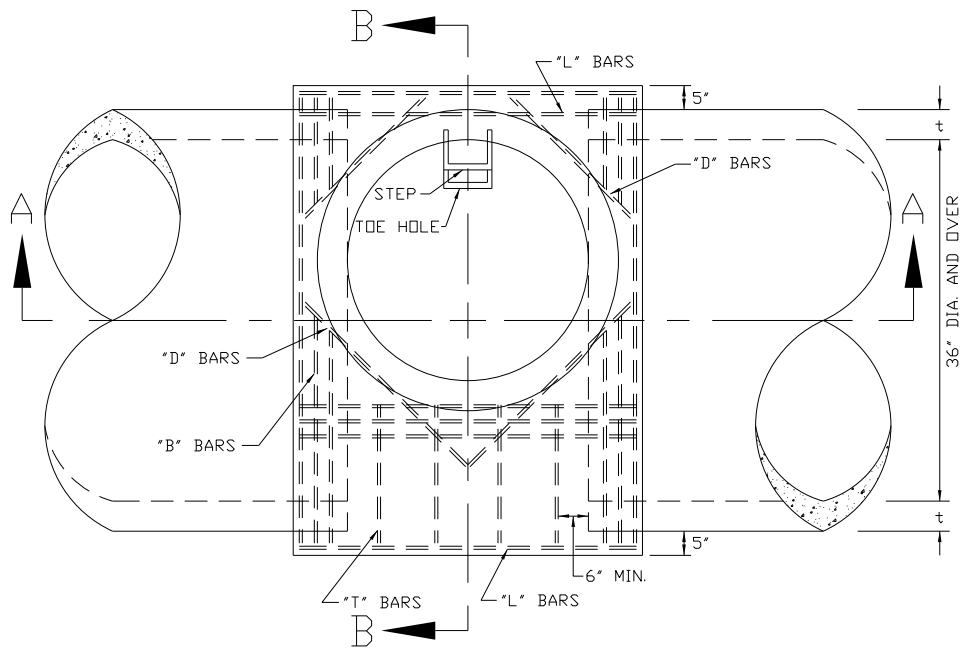
GENERAL NOTES:

1. PROVIDE GRANULAR BACKFILL AROUND MANHOLE TO SUBGRADE ELEVATION IN PAVED AREAS. MATERIAL SHALL MEET THE REQUIREMENTS OF THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" FOR COARSE AGGREGATE (CA-6 GRADATION).
2. APPLY A CONTINUOUS LAYER OF NON-HARDENING, PREFORMED BITUMINOUS MASTIC MATERIAL (RUB-R-NEK OR EZ STICK) TO EACH JOINT BELOW THE BOTTOM OF CONE OR FLATTOP TO PREVENT INFLOW.
3. WHEN THE FRAME DOES NOT MEET PROPOSED ELEVATION, A MINIMUM OF TWO TAPERED RUBBERIZED ADJUSTING RINGS SHALL BE USED FOR FINAL ADJUSTMENT. ONE CONCRETE RING NOT LESS THAN TWO INCHES THICK MAY ALSO BE USED. A MAXIMUM OF THREE ADJUSTING RINGS MAY BE USED TO A MAXIMUM HEIGHT OF 12 INCHES. THE RING(S) AND FRAME SHALL BE SET IN A BED OF NON-HARDENING BUCKET MASTIC.
4. PRECAST CONCRETE ADJUSTING RINGS SHALL BE REINFORCED WITH NO. 3 GAUGE WIRE OR EQUIVALENT AND SHALL HAVE A MINIMUM THICKNESS OF TWO INCHES.
5. MORTAR SHALL NOT BE USED TO DRESS UP ADJUSTING RINGS AND/OR FRAME.
6. ONLY PLASTIC POLYMER STEPS SHALL BE USED.
7. DRESS UP INTERIOR JOINTS OF PRECAST MANHOLE WITH HYDRAULIC CEMENT.
8. BEDDING BENEATH THE MANHOLE SHALL BE A MINIMUM OF SIX INCHES THICK AND SHALL MEET THE REQUIREMENTS FOR GRANULAR BACKFILL (CA-6 GRADATION).
9. WHEN A PRECAST TEE MANHOLE IS SPECIFIED, A SHOP DRAWING FOR THE STRUCTURE SHALL BE SUBMITTED TO THE DIRECTOR OF PUBLIC WORKS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION OF THE STRUCTURE. THE SHOP DRAWING SHALL BE PREPARED, SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF ILLINOIS. PRIOR TO SUBMITTAL TO THE CITY, THE DESIGN ENGINEER SHALL REVIEW AND APPROVE THE SHOP DRAWING. APPROVAL BY THE DESIGN ENGINEER SHALL BE CLEARLY NOTED ON THE SHOP DRAWING.
10. CHIMNEY SEALS SHALL BE REQUIRED UNLESS THE MANHOLE IS ADJUSTED TO FINAL GRADE IN ACCORDANCE WITH DETAIL STORM 7 - CASTING ADJUSTMENTS FOR STRUCTURES IN PAVED AREAS.

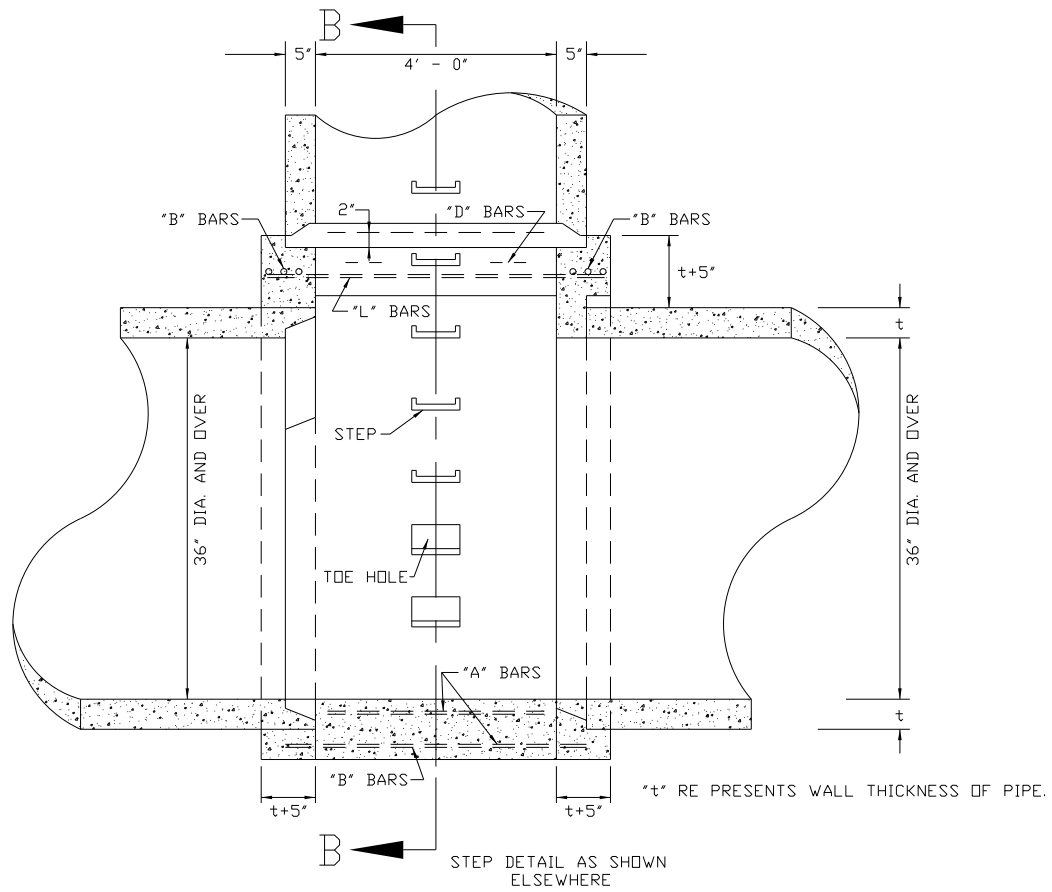
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PRECAST TEE MANHOLE

CITY OF WOOD DALE
STORM 5



PLAN



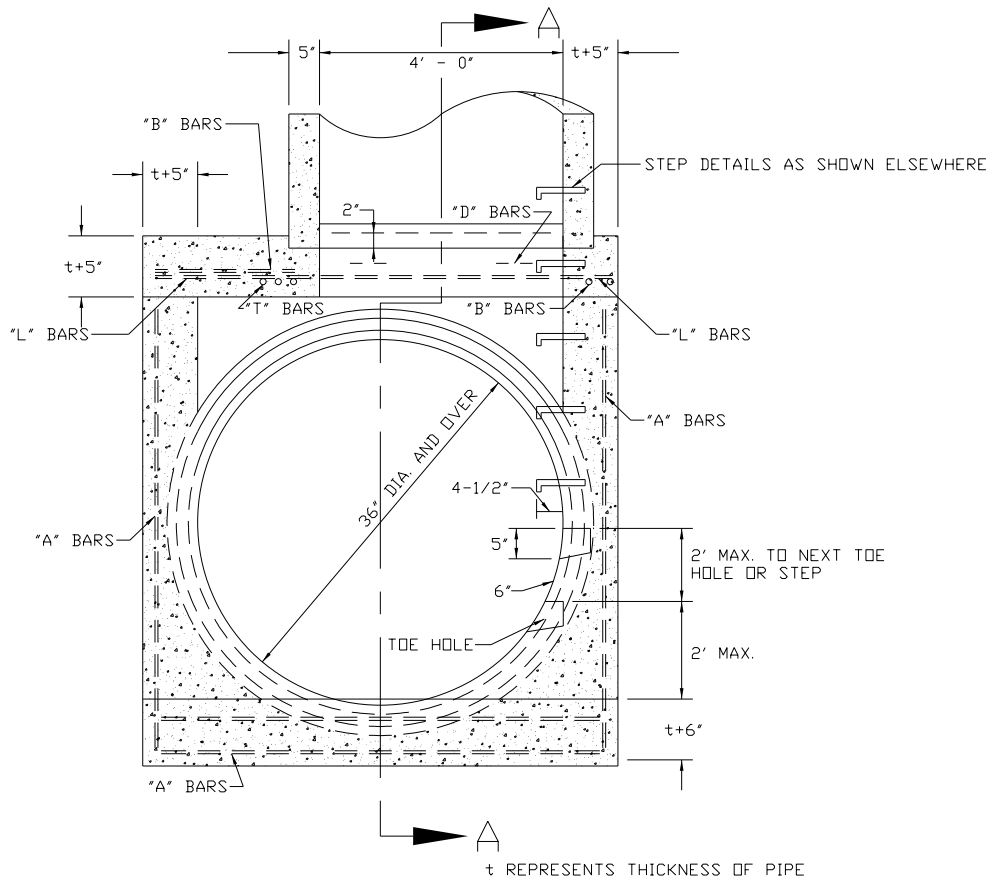
SECTION A-A

REV.:	REV.:
DRAWN BY:	DATE: 4-3-18

# CONNECTION BOX FOR PRECAST MANHOLE

CITY OF WOOD DALE

STORM 6A  
Packet Page #293



SECTION B-B

GENERAL NOTES:

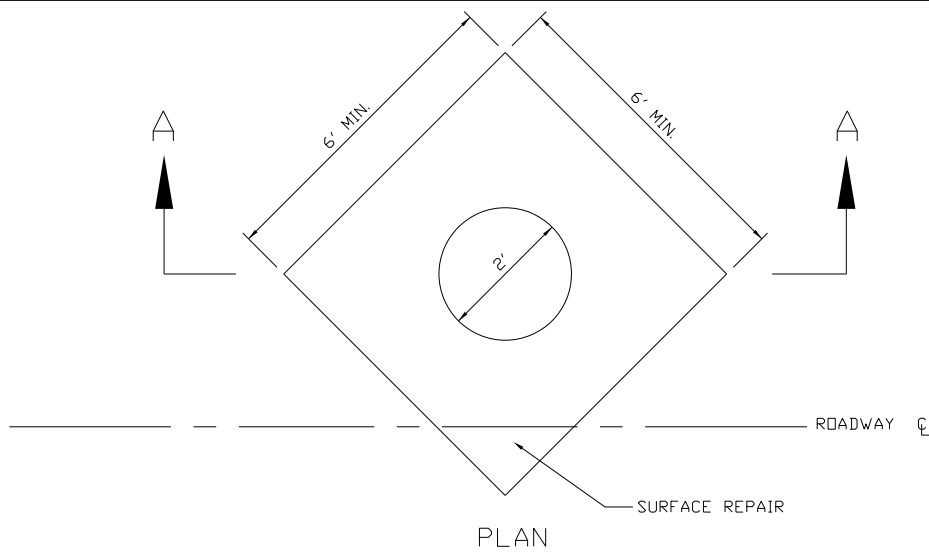
1. CONCRETE FOR THE MANHOLE BASE AND CONNECTION BOX SHALL BE CLASS "SI OR PC".
2. REINFORCEMENT STEEL SHALL CONFORM TO STANDARD SPECIFICATIONS ASTM-3670 FOR STRUCTURAL STEEL. BENDS, HOOKS, AND SPLICES SHALL BE IN ACCORDANCE WITH ACI STANDARD 318.
3. PRECAST RISER RING AND CONE SHALL HAVE A MINIMUM CIRCULAR REINFORCEMENT OF 0.18 SQ. IN. PER FOOT.
4. CONNECTION BOXES FOR SEWERS 36" AND OVER IN DIAMETER SHALL HAVE AT LEAST THE MINIMUM SHOWN AND AS SPECIFIED BELOW:  
 "A" BARS AT 12" C/C IN BOTH DIRECTIONS  
 "B" BARS AT 3" C/C IN BOTH DIRECTIONS  
 "A", "B", AND "L" BAR SIZES:  
     5/8" DIA. FOR 36" TO 60" SEWERS  
     3/4" DIA. FOR 66" TO 78" SEWERS  
     7/8" DIA. FOR 84" TO 96" SEWERS  
 "T" BARS: 5/8" DIA. AND AT 12" C/C  
 "D" BARS: 5/8" DIA.
5. REINFORCING BARS SHALL HAVE A MINIMUM COVER OF 2" FROM THE EDGE OF THE STRUCTURE.
6. PRECAST CONCRETE ADJUSTING RINGS SHALL BE REINFORCED WITH NO. 3 GAUGE WIRE OR EQUIVALENT AND SHALL HAVE A MINIMUM THICKNESS OF TWO INCHES.

REV.:		CONNECTION BOX FOR PRECAST MANHOLE (CONTINUED)	CITY OF WOOD DALE
REV.:	REV.:		STORM 6B
DRAWN BY:	DATE: 4-3-18		

# GENERAL NOTES CONT:

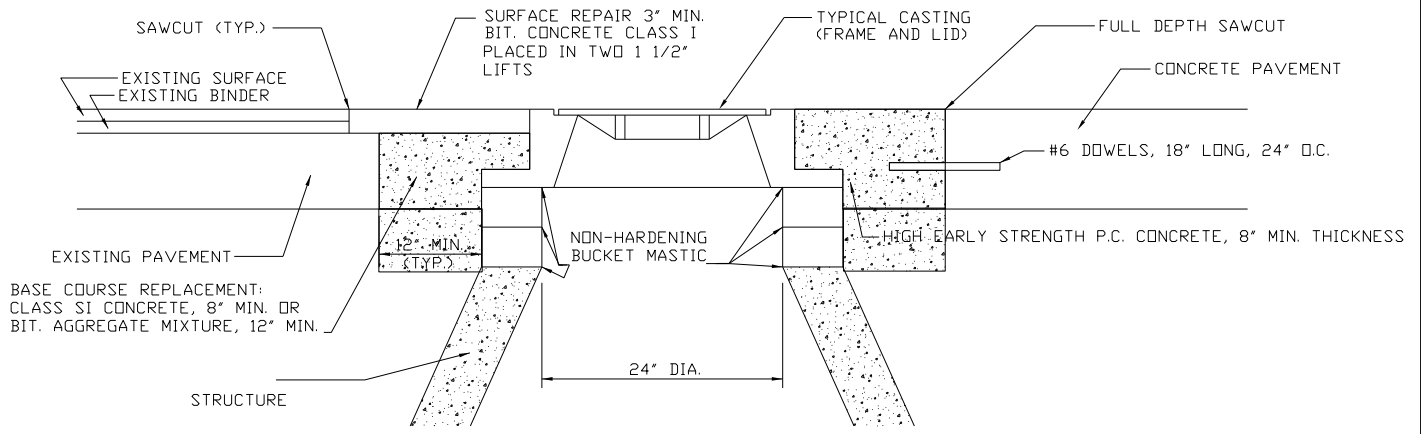
7. WHEN A CONNECTION BOX FOR PRECAST MANHOLE IS SPECIFIED, A SHOP DRAWING SHALL BE SUBMITTED TO THE PUBLIC WORKS DIRECTOR FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION OF THE STRUCTURE. THE SHOP DRAWING SHALL BE PREPARED, SIGNED AND SEALED BY A STRUCTURAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF ILLINOIS. THE DESIGN ENGINEER SHALL REVIEW AND APPROVE THE SHOP DRAWING PRIOR TO SUBMITAL TO THE CITY (APPROVAL BY THE DESIGN ENGINEER SHALL BE CLEARLY NOTED ON THE SHOP DRAWING).
8. BEDDING BENEATH THE MANHOLE SHALL BE A MINIMUM OF SIX INCHES THICK AND SHALL MEET THE REQUIREMENTS FOR GRANULAR BACKFILL (CA-6 GRADATION).
9. PROVIDE GRANULAR BACKFILL AROUND MANHOLE TO SUBGRADE ELEVATION IN PAVED AREAS. MATERIAL SHALL MEET THE REQUIREMENTS OF THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" FOR COARSE AGGREGATE (CA-6 GRADATION).
10. APPLY A CONTINUOUS LAYER OF PREFORMED, NON-HARDENING BITUMINOUS MASTIC MATERIAL (RUB-R-NEK, EZ STICK OR APPROVED EQUAL) TO EACH JOINT TO PREVENT INFLOW.
11. WHEN THE FRAME DOES NOT MEET PROPOSED ELEVATION, A MINIMUM OF TWO TAPERED RUBBERIZED ADJUSTING RINGS SHALL BE USED FOR FINAL ADJUSTMENTS. ONE CONCRETE RING NOT LESS THAN TWO INCHES THICK MAY ALSO BE USED. A MAXIMUM OF THREE ADJUSTING RINGS MAY BE USED TO A MAXIMUM HEIGHT OF 12 INCHES. THE RING(S) AND FRAME SHALL BE SET ON A BED OF NON-HARDENING BUCKET MASTIC.
12. DRESS UP INTERIOR JOINTS OF PRECAST MANHOLE WITH HYDRAULIC CEMENT. HOWEVER, ADJUSTING RINGS AND FRAME SHALL NOT BE DRESSED UP.

REV:	REV:	CONNECTION BOX FOR PRECAST MANHOLE (CONTINUED)	CITY OF WOOD DALE
REV:	REV:		
DRAWN BY:	DATE: 4-3-18		STORM 6C Packet Page #295



PLAN

ADJUSTMENTS IN BITUMINOUS PAVEMENT | ADJUSTMENTS IN CONCRETE PAVEMENT



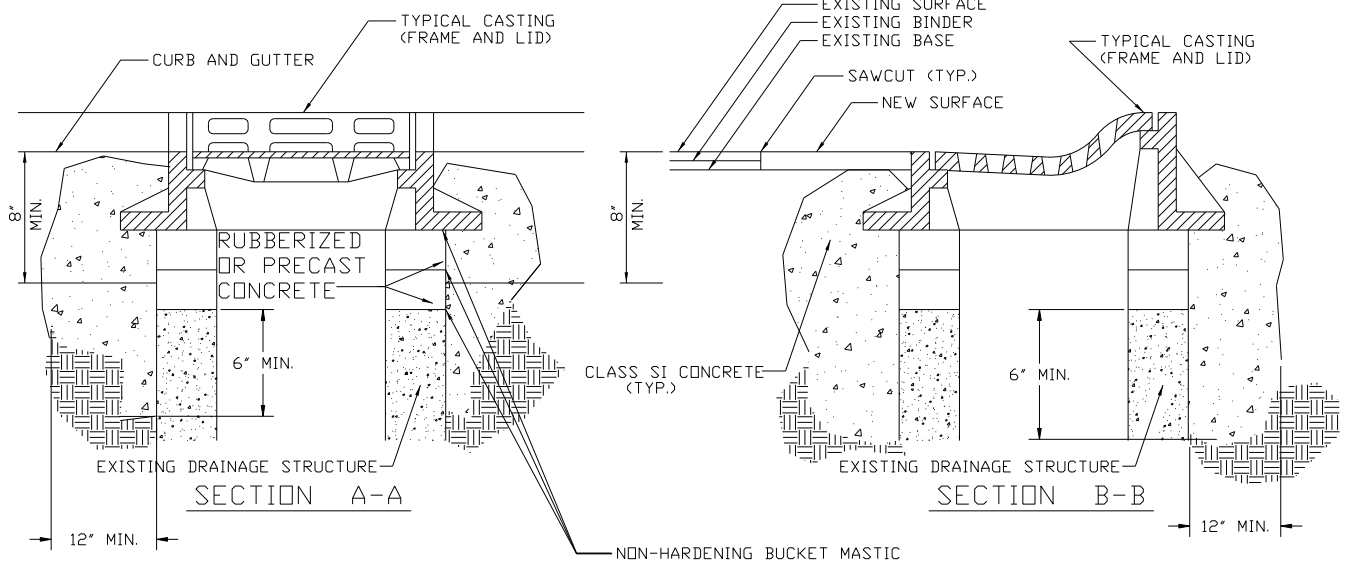
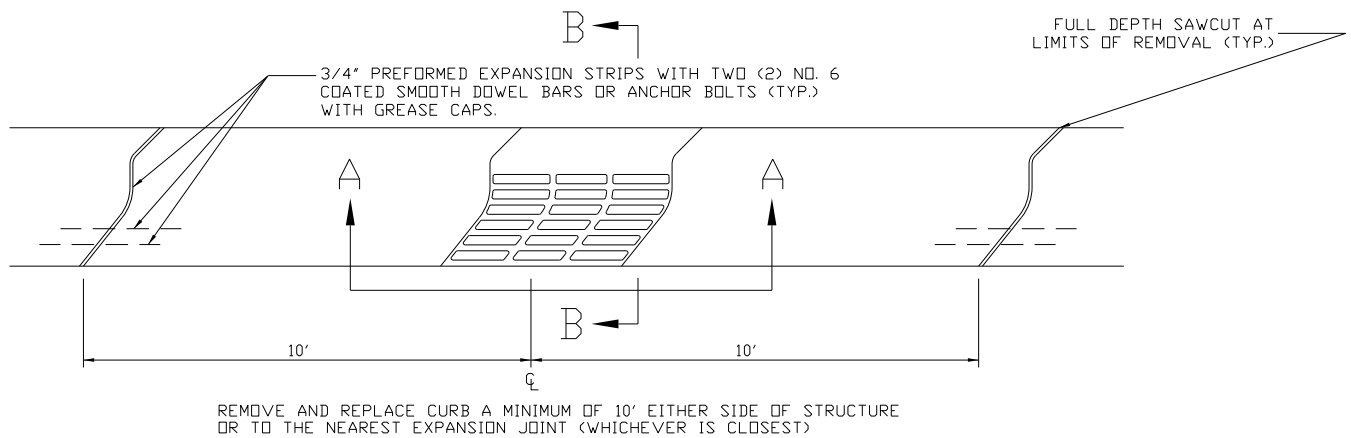
SECTION A-A

GENERAL NOTES:

1. PROVIDE SELECT GRANULAR BACKFILL, CA-6 GRADATION AROUND MANHOLE TO SUBGRADE ELEVATION.
2. WHEN THE FRAME DOES NOT MEET PROPOSED ELEVATION, A MINIMUM OF TWO TAPERED RUBBERIZED ADJUSTING RINGS SHALL BE USED FOR FINAL ADJUSTMENT. ONE CONCRETE RING NOT LESS THAN TWO INCHES THICK MAY ALSO BE USED. A MAXIMUM OF THREE ADJUSTING RINGS MAY BE USED TO A MAXIMUM HEIGHT OF 12 INCHES. THE RING(S) AND FRAME SHALL BE SET ON A BED OF NON-HARDENING BUCKET MASTIC.
3. PRECAST ADJUSTING RINGS SHALL BE REINFORCED WITH NO. 3 GAUGE WIRE OR EQUIVALENT AND SHALL HAVE A MINIMUM THICKNESS OF TWO (2) INCHES.
4. WHEN ADJUSTMENTS ARE LOCATED IN TRAVEL LANES, THEY SHALL BE PROTECTED BY A BARRICADE WITH TWO (2) FLASHING LIGHTS, TWO (2) BARRICADES EACH WITH A SINGLE FLASHING LIGHT OR COVERED BY A ONE (1) INCH STEEL PLATE PROVIDED AND MAINTAINED BY THE CONTRACTOR UNTIL THE SURFACE RESTORATION IS COMPLETE.
5. WHEN ADJUSTMENTS TEMPORARILY RAISE A CASTING ABOVE THE ELEVATION OF THE PAVEMENT SURFACE, IN AREAS SUBJECTED TO VEHICULAR TRAFFIC, A BITUMINOUS RAMP SHALL BE TRANSITIONED A DISTANCE OF ONE (1) FOOT HORIZONTAL FOR EACH INCH OF VEHICLE DISTANCE ABOVE THE EXISTING PAVEMENT. SUCH RAMPS SHALL BE MAINTAINED BY THE CONTRACTOR UNTIL THE COMPLETION OF THE SURFACE RESTORATION.
6. FOR BOTH CONCRETE AND ASPHALT ROADS, THE BASE COURSE REPLACEMENT (CONCRETE COLLAR) SHALL BE EXTENDED DOWN TO THE TOP OF THE CONE SECTION.

REV.:	REV.:	CASTING ADJUSTMENTS FOR STRUCTURES IN PAVED AREAS	CITY OF WOOD DALE
REV.:	REV.:		
DRAWN BY:	DATE: 4-3-18		STORM 7 Packet Page #296





### GENERAL NOTES:

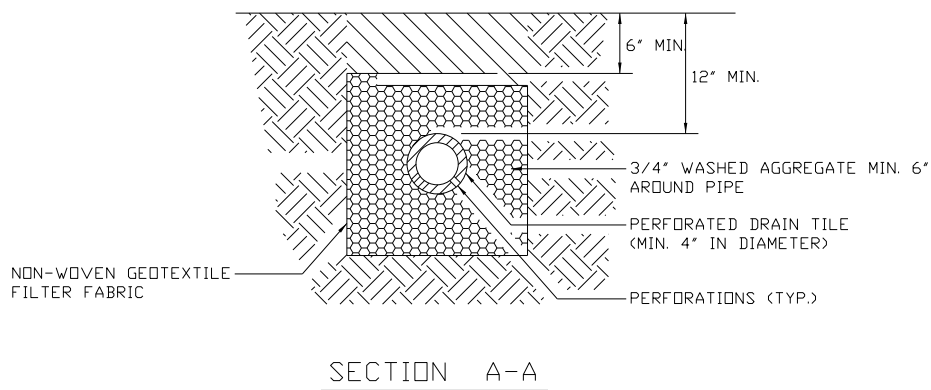
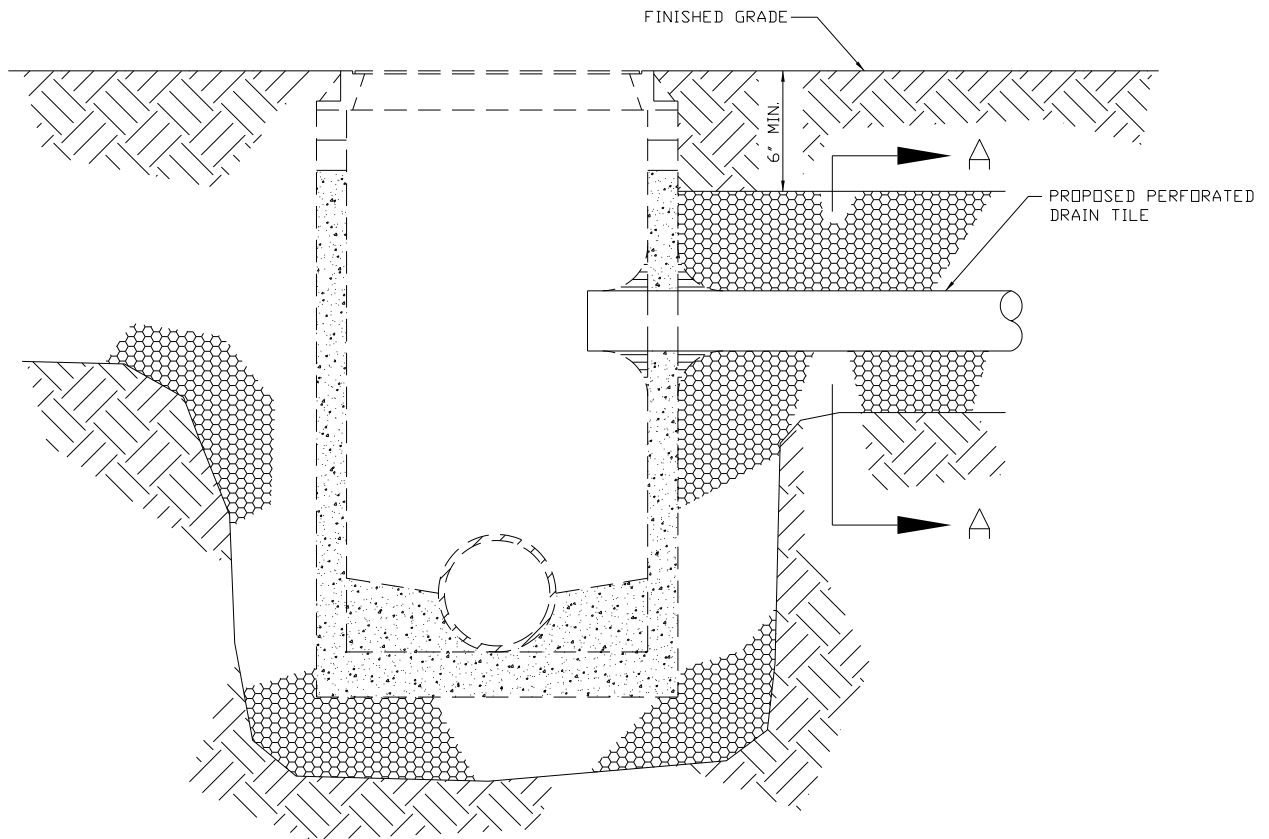
1. WHEN THE FRAME DOES NOT MEET PROPOSED ELEVATION, A MINIMUM OF TWO TAPERED RUBBERIZED ADJUSTING RINGS SHALL BE USED FOR FINAL ADJUSTMENT. ONE CONCRETE RING NOT LESS THAN TWO INCHES THICK MAY ALSO BE USED. A MAXIMUM OF THREE ADJUSTING RINGS MAY BE USED TO A MAXIMUM HEIGHT OF 12 INCHES. THE RING(S) AND FRAME SHALL BE SET ON A BED OF NON-HARDENING BUCKET MASTIC.
2. PRECAST ADJUSTING RINGS SHALL BE REINFORCED WITH NO. 3 GAUGE WIRE OR EQUIVALENT AND SHALL HAVE A MINIMUM THICKNESS OF TWO (2) INCHES.
3. MORTAR SHALL NOT BE USED TO DRESS UP ADJUSTING RINGS.
4. ALL REMOVABLE CASTINGS SHALL BE ORIENTED SO THE OPENING IN THE GRATE PROVIDES THE MAXIMUM HYDRAULIC EFFICIENCY.

REV.:	REV.:
REV.:	REV.:
DRAWN BY:	DATE: 4-3-18

CASTING ADJUSTMENTS FOR  
STRUCTURES IN THE CURB LINE

CITY OF WOOD DALE

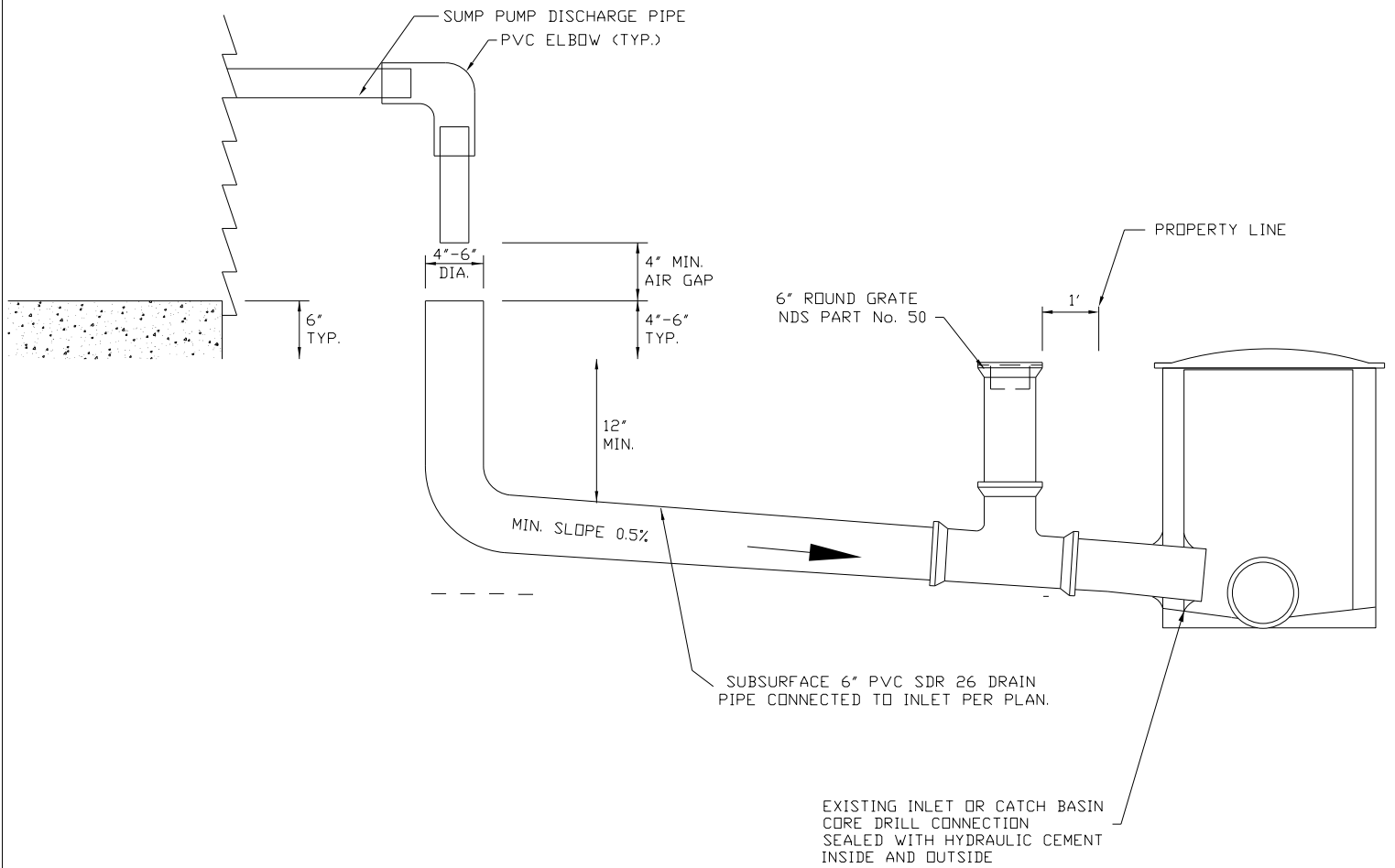
STORM 8  
Packet Page #297



GENERAL NOTES:

1. BOTH THE TRENCH AND DRAIN TILE SHALL BE WRAPPED WITH NON-WOVEN GEOTEXTILE FILTER FABRIC.
2. WASHED AGGREGATE SHALL BE PLACED AROUND THE DRAIN TILE.
3. HOLE SHALL BE CORED DRILLED INTO STRUCTURE.
4. HYDRAULIC CEMENT SHALL BE PLACED AROUND THE PIPE TO SEAL THE OPENING, BOTH INSIDE AND OUTSIDE THE STRUCTURE.

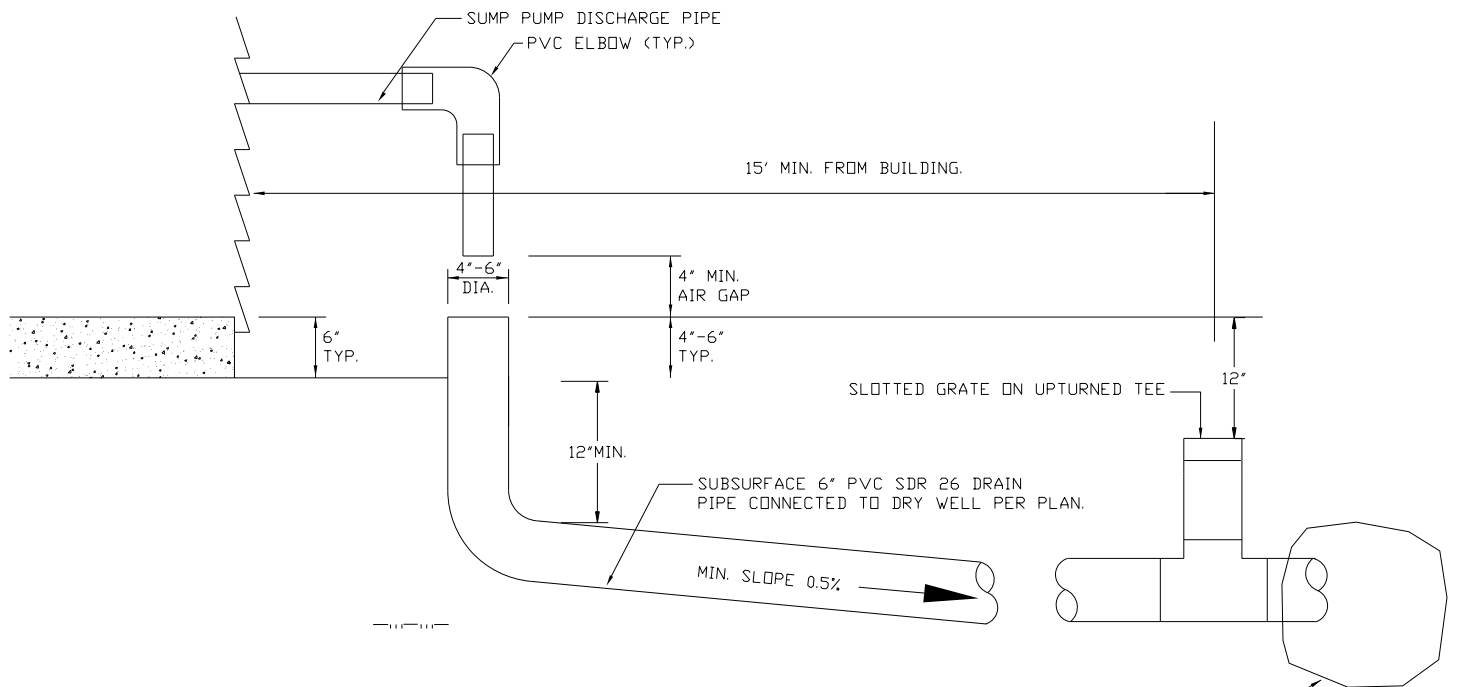
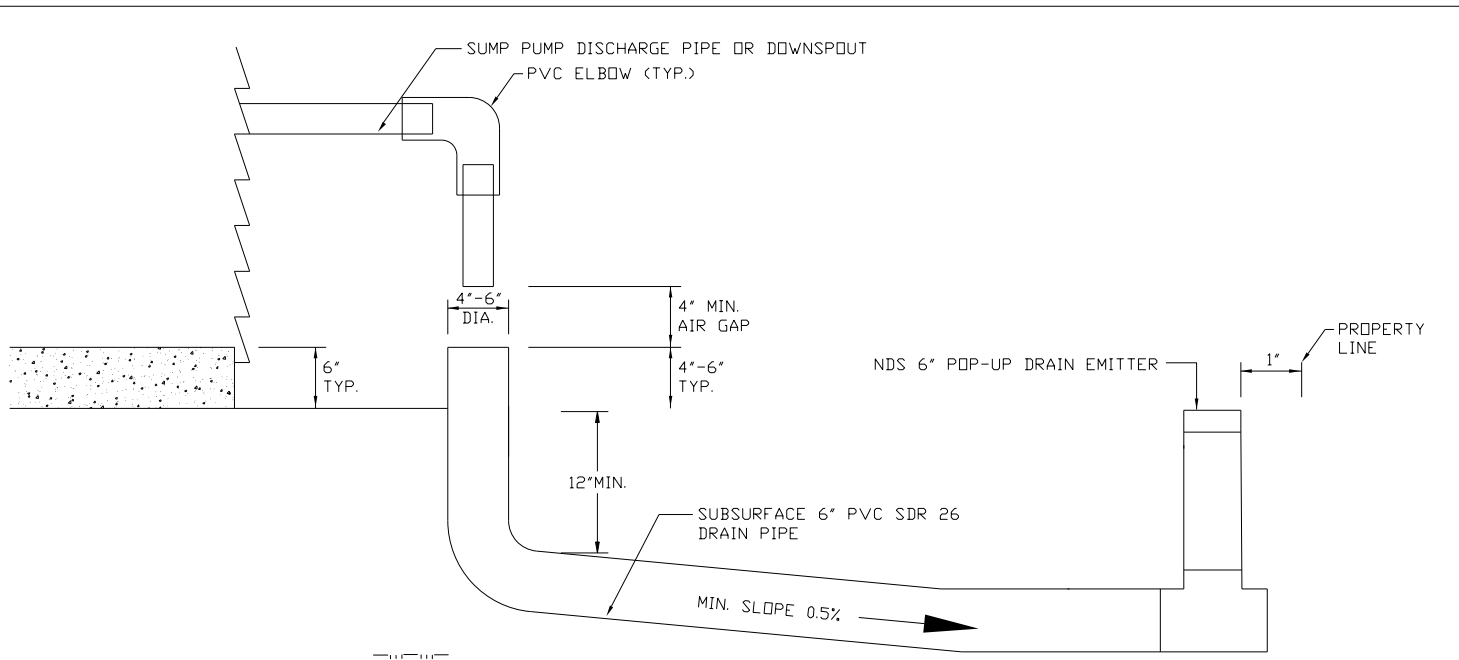
REV.:		SUBSURFACE DRAIN TILE CONNECTION	CITY OF WOOD DALE
REV.:	REV.:		
DRAWN BY:	DATE: 4-3-18		STORM 9 Packet Page #298



GENERAL NOTES:

1. SUMP PUMP CONNECTIONS THAT DIRECTLY CONNECT INTO THE SEPARATED STORM SEWER SYSTEM ARE ONLY PERMITTED IF APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR COMMUNITY DEVELOPMENT.
2. INSTALLATION OF SUMP PUMP CONNECTION MUST BE INSPECTED BY THE CITY OF WOOD DALE.
3. INSTALLER ASSUMES FULL RESPONSIBILITY AND LIABILITY FOR ANY AND ALL DAMAGE TO UTILITIES OR ADJOINING PROPERTIES.
4. REFER TO STORM 10A FOR STANDARD SUBSURFACE DRAIN TILE SUMP PUMP CONNECTION.
5. EXISTING SIDEWALK SHALL BE REMOVED AND REPLACED.
6. SEE STORM 11 FOR TRENCH SECTION

REV.:	REV.:	DIRECT SUBSURFACE DRAIN TILE SUMP PUMP CONNECTION	CITY OF WOOD DALE
REV.:	REV.:		STORM 10
DRAWN BY:	DATE: 4-3-18		Packet Page #299



**GENERAL NOTES:**

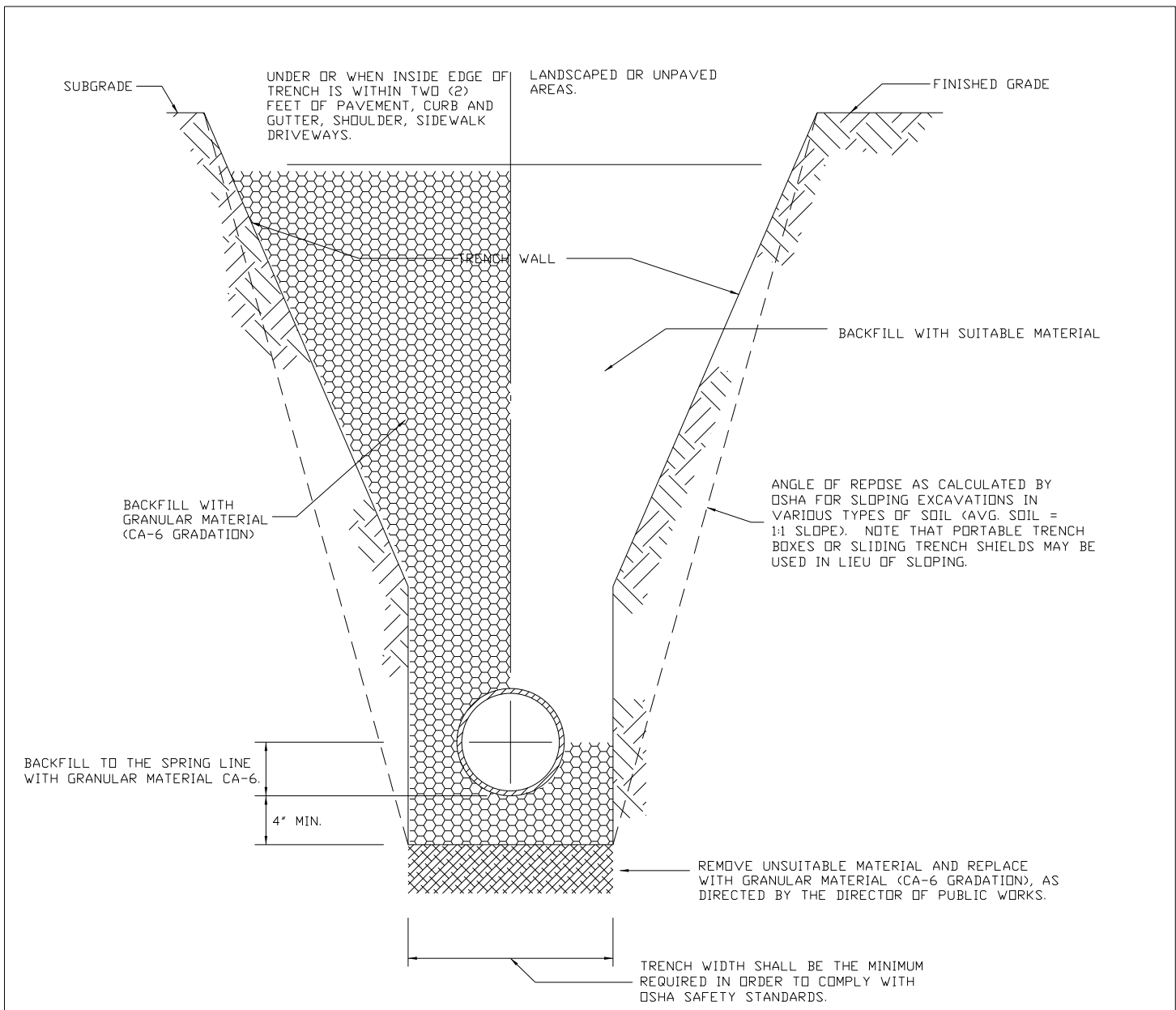
1. FOR RESIDENTIAL DEVELOPMENTS WITH AN ON-SITE STORM WATER CONTROL FACILITY, THE SUMP PUMP SHALL BE CONNECTED INTO THE STORM SEWER SYSTEM NOT LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY.
2. ALL OTHER SUMP PUMP CONNECTIONS ARE TO SPLASH TO GRADE UNLESS WRITTEN APPROVAL IS GIVEN BY THE DIRECTOR OF PUBLIC WORKS.
3. SUMP PUMP DISCHARGE SHALL BE DIRECTED AWAY FROM ADJACENT PROPERTIES.
4. INSTALLER ASSUMES FULL RESPONSIBILITY AND LIABILITY FOR ANY AND ALL DAMAGE TO UTILITIES OR ADJOINING PROPERTIES.
5. INSTALLATION OF SUMP PUMP DRAIN TILES MUST BE INSPECTED BY THE CITY OF WOOD DALE.
6. SLOTTED GRATE ON UPTURNED TEE SHALL BE 12" BELOW ENTRANCE POINT.
7. SEE STORM 11 FOR TRENCH SECTION.

END OF TEE WRAPPED IN GEOTEXTILE FABRIC AND PLACED IN FABRIC-LINED 1 CUBIC YARD DRY WELL

REV.:	REV.:
REV.:	REV.:
DRAWN BY:	DATE: 4-3-18

**SUBSURFACE DRAIN TILE  
SUMP PUMP CONNECTION**

CITY OF WOOD DALE
STORM 10A



GENERAL NOTES:

1. CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A SAFE MANNER AT ALL TIMES AND SHALL COMPLY WITH ALL APPLICABLE GOVERNING REGULATIONS, INCLUDING BUT NOT LIMITED TO OSHA SAFETY STANDARDS.
2. ALL BACKFILL MATERIAL UP TO A HEIGHT OF 12 INCHES ABOVE THE PIPE SHALL BE CAREFULLY DEPOSITED IN UNIFORM LAYERS NOT EXCEEDING 8 INCHES THICK (LOOSE MEASURE). THE MATERIAL IN EACH LAYER SHALL BE FIRMLY COMPACTED BY RAMMING OR TAMPING WITH TOOLS APPROVED BY THE DIRECTOR OF PUBLIC WORKS IN SUCH A MANNER AS NOT TO DISTURB OR INJURE THE PIPE. THE BACKFILLING ABOVE THIS HEIGHT SHALL BE DONE AS NOTED BELOW.
3. GRANULAR BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED AS SPECIFIED IN NOTE 2, ABOVE. THE USE OF JETTING SHALL NOT BE ALLOWED UNLESS AUTHORIZED IN WRITING BY THE DIRECTOR OF PUBLIC WORKS. IT SHALL BE THE DESIGN ENGINEER OR CONTRACTOR'S RESPONSIBILITY TO PROVIDE APPROPRIATE JUSTIFICATION AND DOCUMENTATION (SOIL INVESTIGATION REPORTS, ETC.) TO THE CITY WITH THE REQUEST FOR APPROVAL OF JETTING.

REV.:	REV.:
REV.:	REV.:
DRAWN BY:	DATE: 4-3-18

STORM SEWER  
TRENCH SECTION

CITY OF WOOD DALE
STORM 11 Packet Page #301

# GENERAL NOTES CONT:

4. BACKFILL MATERIAL CONSISTING OF SUITABLE EXCAVATED MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING TWELVE (12) INCHES THICK (LOOSE MEASURE) AND EACH LAYER SHALL BE COMPACTED BY RAMMING OR TAMPING TO ACHIEVE THE REQUIRED COMPACTION. JETTING OF THIS MATERIAL MAY BE PERMITTED WHEN AUTHORIZED IN WRITING BY THE DIRECTOR OF PUBLIC WORKS. IT SHALL BE THE DESIGN ENGINEER OR THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT APPROPRIATE JUSTIFICATION AND DOCUMENTATION (SOILS INVESTIGATION REPORTS, ETC.) TO THE CITY WITH THE REQUEST FOR APPROVAL OF JETTING.

5. GRANULAR MATERIAL FOR BACKFILL AND BEDDING SHALL BE GRAVEL, CRUSHED GRAVEL OR STONE MEETING THE REQUIREMENTS OF THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" FOR COURSE APPREGATE (CA-6 GRADATION).

6. MINIMUM COVER OVER THE TOP OF PIPE SHALL BE SIX (6) INCHES BELOW FINISHED SUBGRADE IN PAVED AREAS AND TWELVE (12) INCHES BELOW FINISHED GRADE IN LANDSCAPE AREAS.

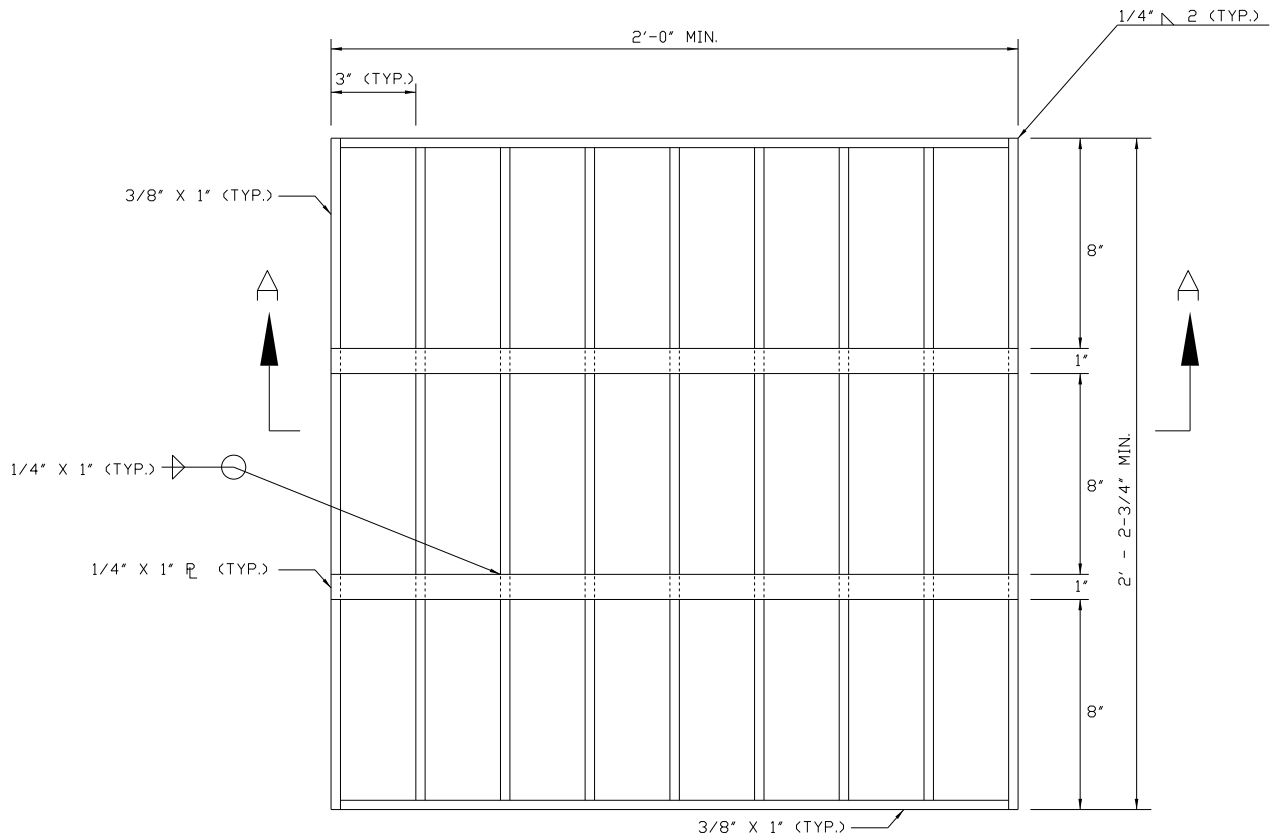
7. THE BEDDING THICKNESS SHALL BE EQUAL TO ONE-QUARTER ( $\frac{1}{4}$ ) OF THE OUTSIDE DIAMETER OF THE PIPE BUT NOT LESS THAN FOUR (4) INCHES.

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DRAWN BY:	DATE: 4-3-18

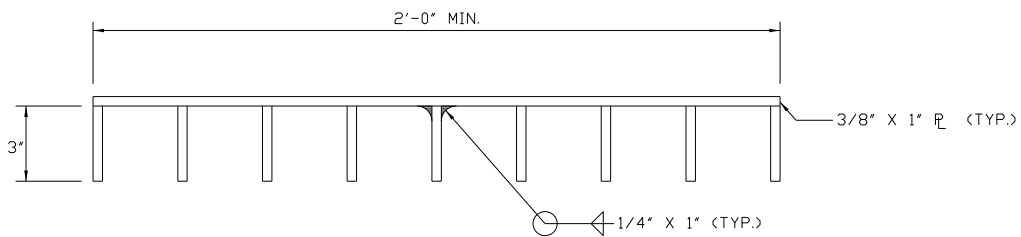
## STORM SEWER TRENCH SECTION

CITY OF WOOD DALE

STORM-11A  
Packet Page #302



PLAN

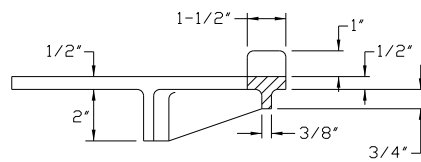
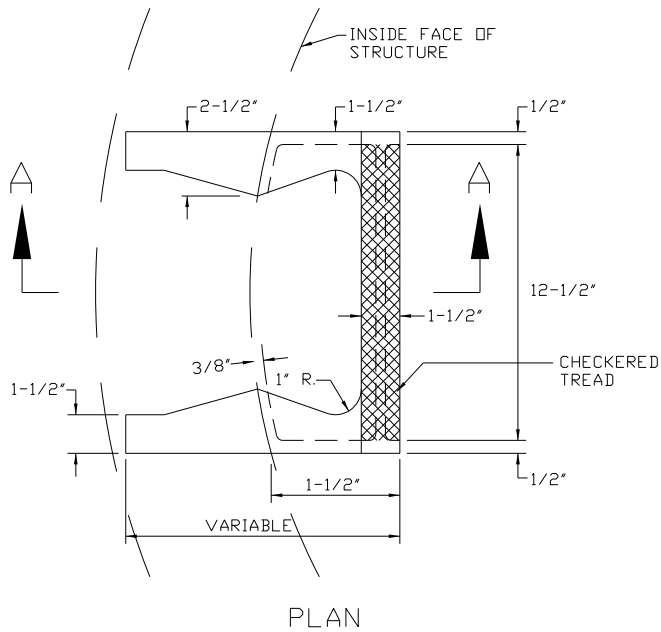


SECTION A-A

GENERAL NOTES:

1. STRUCTURAL STEEL SHAPES AND PLATES SHALL BE IN ACCORDANCE WITH ARTICLE 505.02 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
2. ALL FABRICATIONS SHALL BE COMPLETED AND READY FOR INSTALLATION BEFORE GALVANIZING.
3. GRATES SHALL BE BOLTED DOWN.

REV.:		STORM SEWER GRATE FOR BOX INLET	CITY OF WOOD DALE
REV.:	REV.:		
DRAWN BY:	DATE: 4-3-18		STORM 12 Packet Page #303



GENERAL NOTES:

1. PLASTIC POLYMER STEPS SHALL BE USED.
2. STEPS SHALL BE EMBEDDED INTO WALL A MINIMUM OF 4 INCHES. STEPS SHALL NOT BE EXTENDED ON THE OUTSIDE.

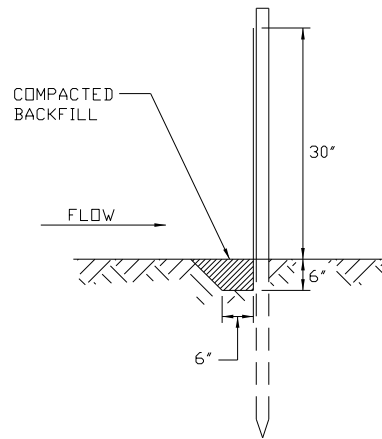
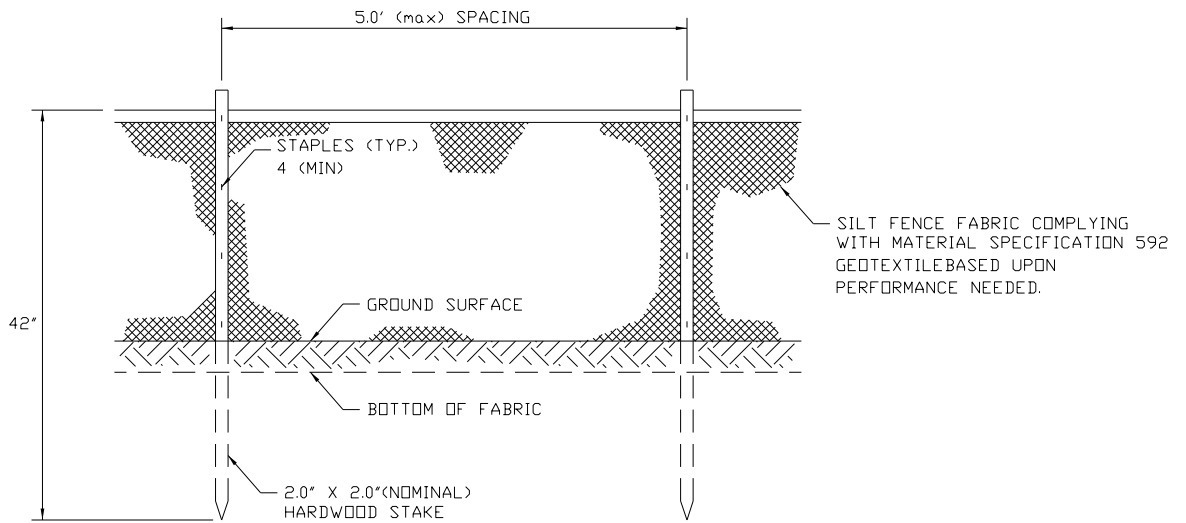
REV.:	
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DRAWN BY:	DATE: 4-3-18

MANHOLE STEP

CITY OF WOOD DALE

Sheet Page #304





GENERAL NOTES:

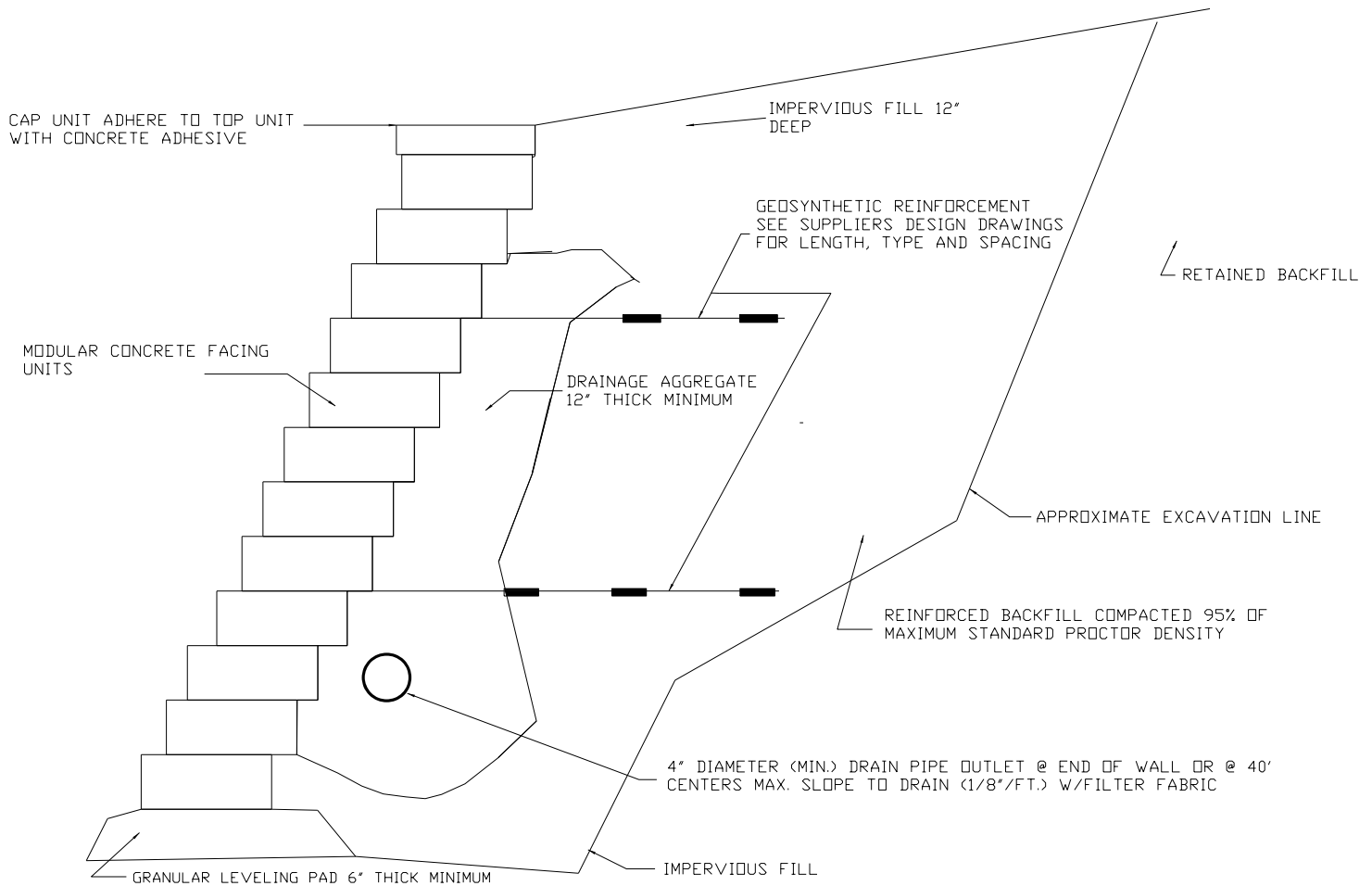
1. SILT FENCE SHALL BE MAINTAINED UNTIL THE AREA TRIBUTARY TO THE STRUCTURE HAS STABILIZED GROUND COVER, AS DETERMINED BY THE DIRECTOR OF PUBLIC WORKS.

REV.:	
REV.:	REV.:
DRAWN BY:	DATE: 4-3-18

SILT FENCE  
INSTALLATION

CITY OF WOOD DALE
Packet Page #305

IF CONDITIONS ARE DIFFERENT THAN THOSE STATED IN THESE DRAWINGS AND SPECIFICATIONS, THE CONTRACTOR MUST CONTACT THE ENGINEER PRIOR TO PROCEEDING WITH THE CONSTRUCTION OF THE WALL.



### TYPICAL SECTION-REINFORCED RETAINING WALL

#### GENERAL NOTES:

1. RETAINING WALLS SHALL NOT BE APPROVED FOR A PERMIT UNLESS SUCH PLANS ARE SIGNED AND SEALED BY STRUCTURAL ENGINEER, OR PROFESSIONAL ENGINEER AUTHORIZED TO SIGN AND SEAL SUCH PLANS BY STATE STATUTE.
2. STRIP VEGETATION AND ORGANIC SOIL FROM WALL AND GEOSYNTHETIC ALIGNMENT.
3. BENCH CUT ALL EXCAVATED SLOPES.
4. DO NOT OVER EXCAVATE UNLESS DIRECTED BY SITE SOIL ENGINEER TO REMOVE UNSUITABLE SOIL.
5. SITE SOILS ENGINEER SHALL VERIFY FOUNDATION SOILS AS BEING COMPETENT PER THE DESIGN STANDARDS AND PARAMETERS.
6. LEVELING PAD SHALL CONSIST OF COMPACTED COURSE SAND OR CRUSHED GRAVEL 6" THICK MIN.
7. CONTRACTOR MAY OPT FOR A LEAN CONCRETE PAD. CONCRETE PAD SHALL BE UNREINFORCED, 3" THICK MAXIMUM.
8. MINIMUM EMBEDMENT OF WALL BELOW FINISH GRADE SHALL BE 6" FOR WALL HEIGHTS UNDER 4 FT. AND 12" FOR WALLS OVER 4 FT. UNLESS SHOWN DIFFERENTLY.
9. FOR UNITS TO BE EMBEDDED, COMPACT FILL IN FRONT OF UNITS AT THE SAME TIME FILL BEHIND UNITS IS COMPACTED.
10. DRAINAGE AGGREGATE SHALL BE INSTALLED DIRECTLY BEHIND THE WALL WITHIN 12" OF THE TIP OF THE WALL. DRAINAGE AGGREGATE SHALL NOT EXTEND BELOW FINAL GRADE IN FRONT OF WALL.
11. COMPACTION SHALL BE TO 95% OF MAXIMUM STANDARD PROCTOR DENSITY. (ASTM D-698)
12. COMPACTION TESTS SHALL BE TAKEN AS THE WALL IS INSTALLED. THE MIN. NUMBER OF TEST SHALL BE DETERMINED BY THE SITE SOIL ENGINEER.
13. COMPACTION WITHIN 3 FT. OF WALL SHALL BE LIMITED TO HAND OPERATED EQUIPMENT.
14. SEE SUPPLIERS DESIGN DRAWINGS FOR GEOSYNTHETIC TYPE, LENGTH AND LOCATION REQUIRED.
15. GEOSYNTHETIC SHALL BE PLACED WITH STRONGEST DIRECTION PERPENDICULAR TO WALL. FOLLOW GEOSYNTHETIC MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WRITTEN SPECIFICATIONS.
16. CONTRACTOR SHALL DIRECT SURFACE RUNOFF TO AVOID DAMAGING WALL WHILE UNDER CONSTRUCTION.
17. ANY SURFACE DRAINAGE FEATURES, FINISH GRADING, PAVEMENT, OR TURF SHALL BE INSTALLED IMMEDIATELY AFTER WALL IS COMPLETED.
18. FOLLOW APPLICABLE PROVISIONS OF THE MANUFACTURER'S INSTALLATION INSTRUCTIONS AND WRITTEN SPECIFICATIONS.
19. A GEOTECHNICAL TESTING COMPANY MUST BE ON SITE FOR TESTING ON THE WALL BASE FOR ALL WALLS HIGHER THAN THREE FEET. A COPY OF ALL REPORTS SHALL BE PROVIDED TO THE CITY OF WOOD DALE.
20. A PROFESSIONAL ENGINEER OR STRUCTURAL ENGINEER SHALL PROVIDE A SIGNED AND SEALED STATEMENT THAT ALL WALLS HIGHER THAN THREE FEET WERE CONSTRUCTED PER APPROVED PLANS AND SPECIFICATIONS.

REV.:	REV.:
REV.:	REV.:
DRAWN BY:	DATE: 4-3-18

## RETAINING WALL

CITY OF WOOD DALE

STORM-16  
Packet Page #306

21. A SPLIT-RAIL FENCE AT LEAST 42" HIGH SHALL BE CONSTRUCTED ALONG THE TOP OF ANY RETAINING WALL HIGHER THAN 3' WHEN A WALK OR PATH IS ON THE TOP SIDE OF THE WALL AND WITHIN 5' OF THE EDGE OF THE WALL. THE CITY MAY REQUIRE, OR THE OWNER/DEVELOPER MAY PROPOSE (SUBJECT TO APPROVAL BY THE DIRECTOR), AN ALTERNATIVE TYPE OF FENCE IF DEEMED APPROPRIATE BASED ON SPECIFIC SITE CONDITIONS AND CHARACTERISTICS. IF A PARKING LOT OR DRIVEWAY IS SIMILARLY LOCATED THEN A GUARDRAIL PER IDOT SPECIFICATIONS SHALL BE USED IN LIEU OF A FENCE.

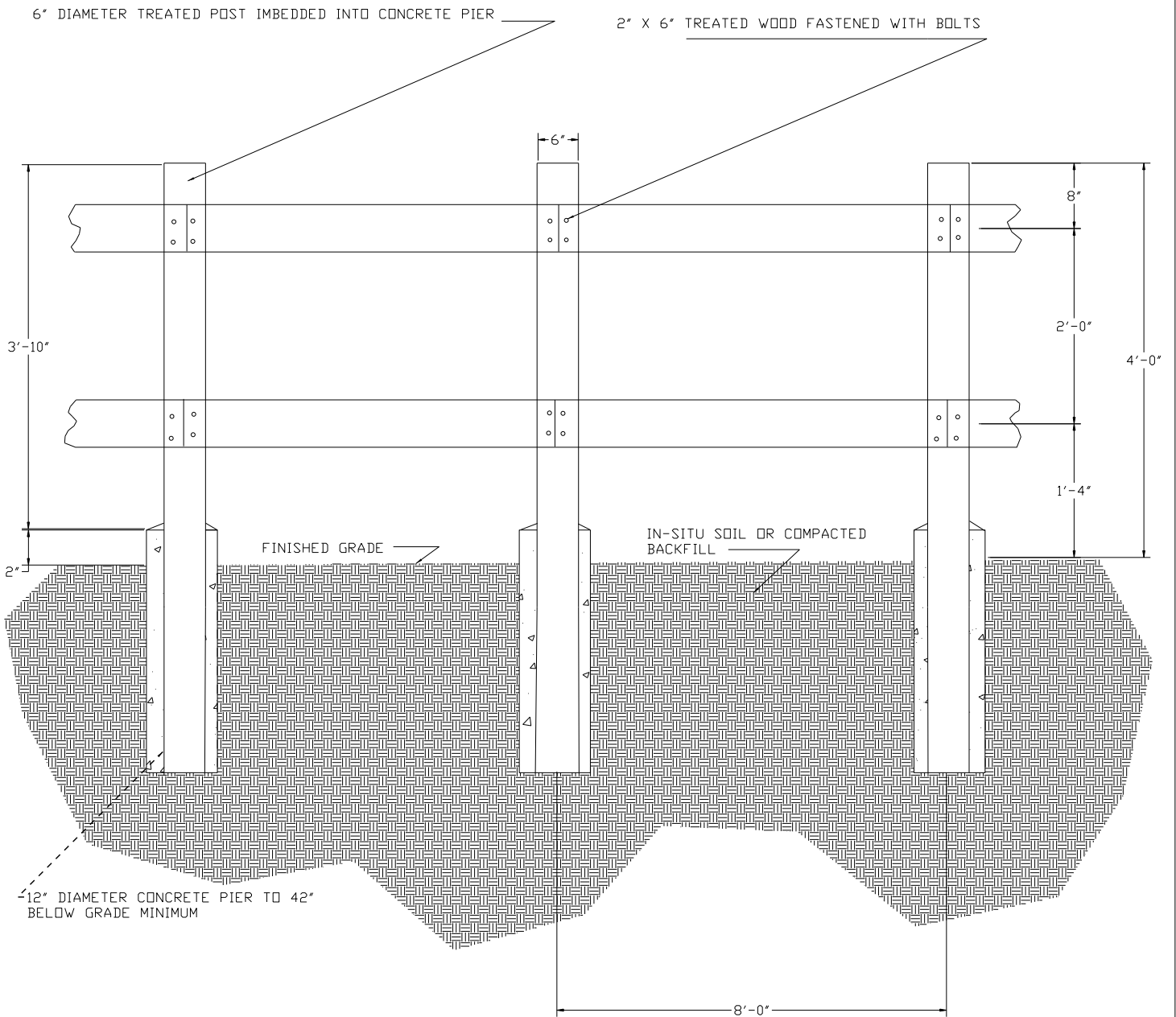
22. A SPLIT-RAIL FENCE AT LEAST 42" HIGH SHALL BE CONSTRUCTED ALONG THE TOP OF ANY SLOPE STEEPER THAN 4H:1V THAT STARTS WITHIN 5' OF A WALK OR PATH AND DESCENDS CONTINUOUSLY TO THE TOP OF A RETAINING WALL HIGHER THAN 3'. THE CITY MAY REQUIRE AN ALTERNATIVE TYPE OF FENCE IF DEEMED APPROPRIATE BASED ON SPECIFIC SITE CONDITIONS AND CHARACTERISTICS. IF A PARKING LOT OR DRIVEWAY IS SIMILARLY LOCATED THEN A GUARDRAIL PER IDOT SPECIFICATIONS SHALL BE USED IN LIEU OF A FENCE.

REV.:	REV.:
REV.:	REV.:
DRAWN BY:	DATE: 4-3-18

RETAINING WALL CONT.

CITY OF WOOD DALE

STORM-16A  
Packet Page #307



NOTES:

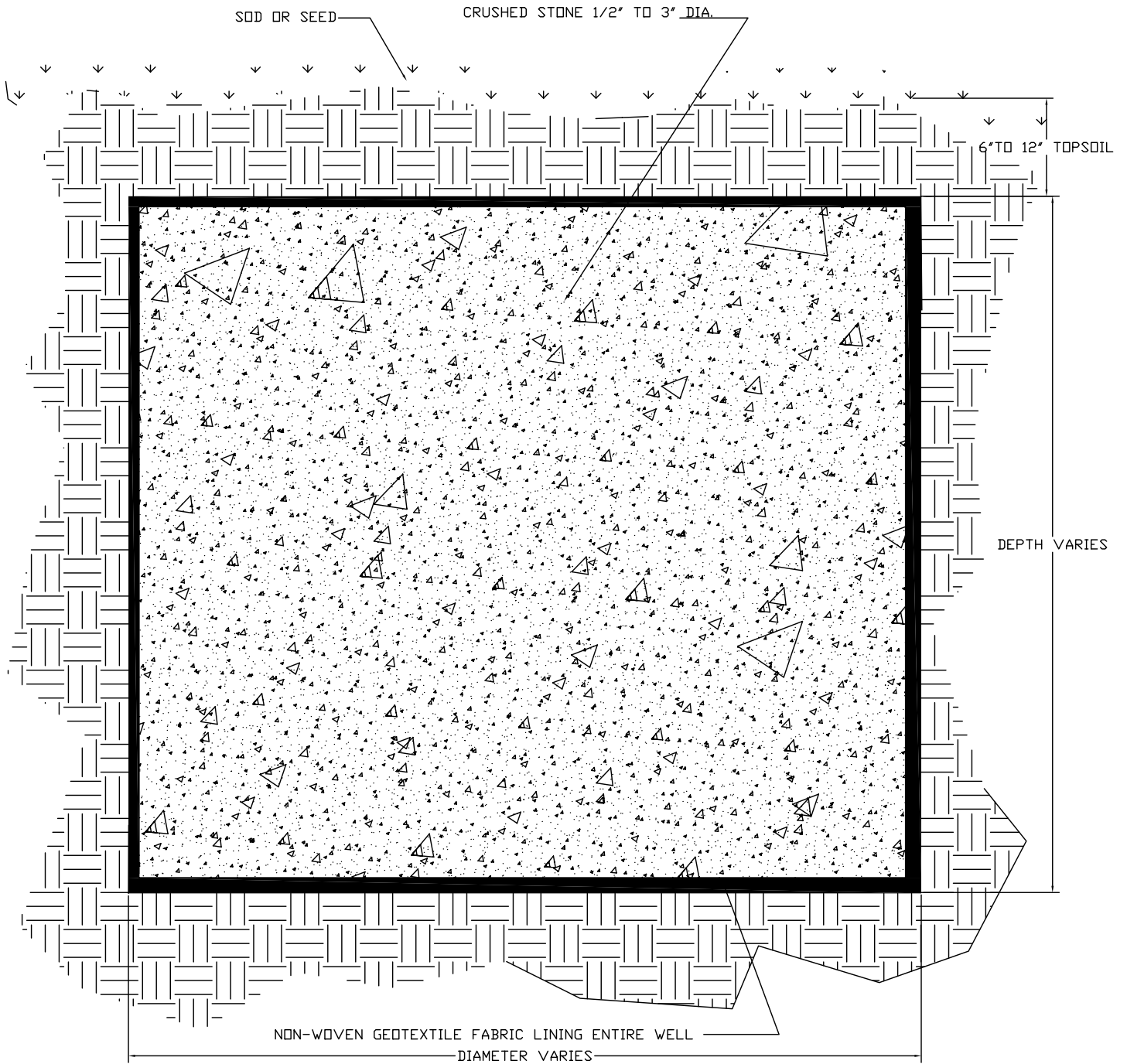
1. ALTERNATIVE MATERIALS AND DIMENSIONS MAY BE ALLOWED ONLY WITH WRITTEN PERMISSION FROM THE CITY.
2. POSTS SHALL BE NOTCHED 1-1/2" DEEP AT RAIL CONNECTIONS.
3. THE MATERIALS AND DIMENSIONS SHALL BE ADJUSTED BY THE DESIGN ENGINEER FOR REVIEW BY THE CITY ACCORDING TO ANTICIPATED LOADS AND CONDITIONS.

REV.:	REV.:
REV.:	REV.:
DRAWN BY:	DATE: 4-3-18

SPLIT-RAIL  
FENCE DETAIL

CITY OF WOOD DALE

STORM-17  
Packet Page #308



**GENERAL NOTES:**

1. AGGREGATE SHALL BE IDOT CA-7 OR APPROVED EQUIVALENT. AGGREGATE SHALL BE CLEAN AND WASHED FREE OF FINES,
2. DRY WELL SHALL BE LOCATED A MINIMUM OF 15 FEET FROM BUILDING FOUNDATIONS AND 20 FEET FROM SANITARY SEWERS.

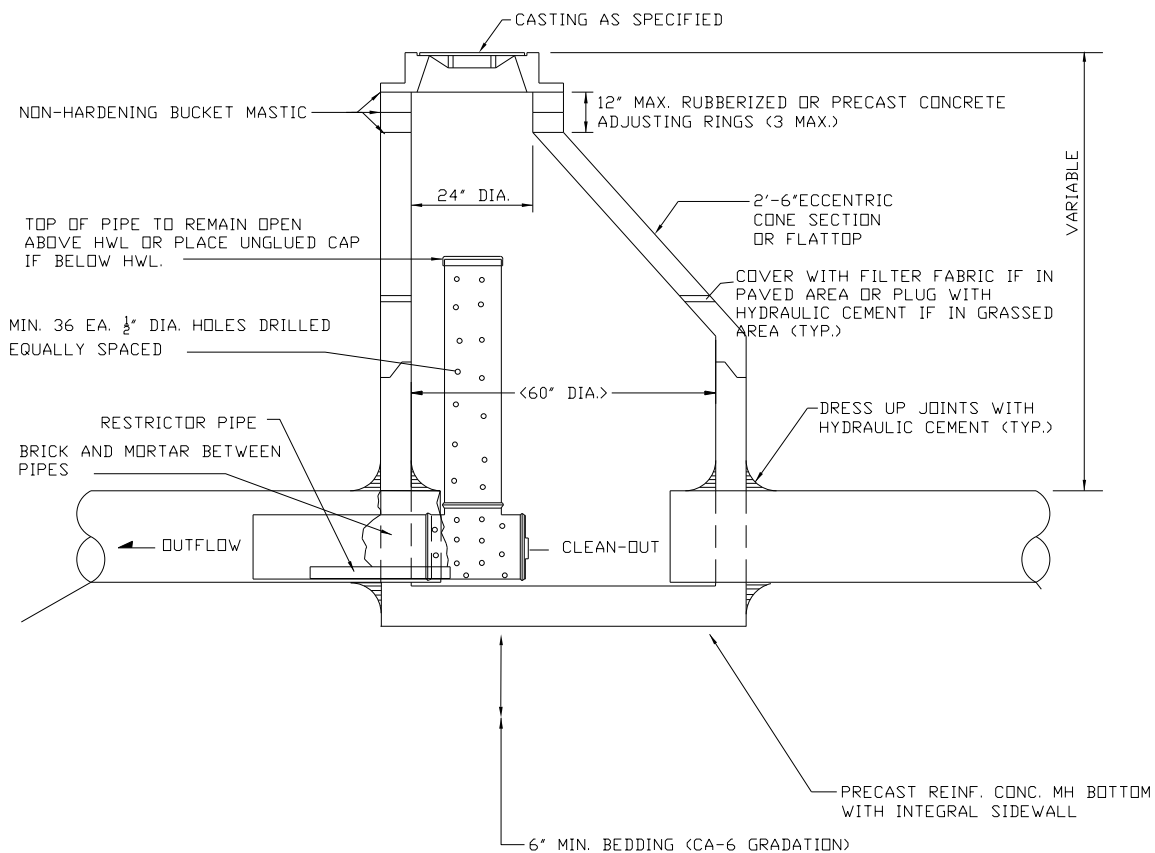
REV.:	REV.:
REV.:	DATE:
DRAWN BY:	DATE: 4-03-18

**DRY WELL**

CITY OF WOOD DALE

Packet Page #309

STURM 18



GENERAL NOTES:

1. RESTRICTOR PIPE MATERIAL CAN BE SCHEDULE 40 PVC PIPE.
2. 6" DIA. SDR 26 PVC PIPE GROUTED INTO THE OUTLET PIPE. EXTEND RESTRICTOR PIPE INTO VISIBLE AREA OF TEE FOR VERIFICATION.
3. CASTINGS SHALL HAVE FACTORY INSTALLED O-RING GASKETS.
4. MANHOLE CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH MANHOLE TYPE A (STORM 1) SPECIFICATIONS.

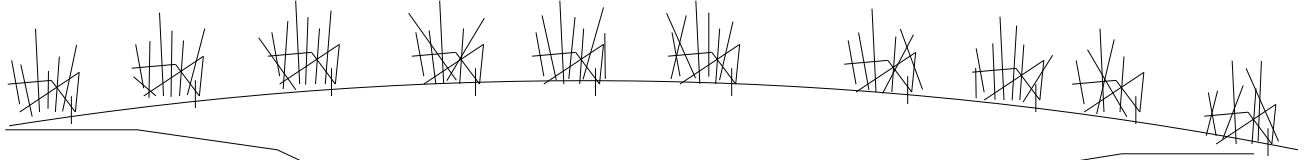
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DRAWN BY:	DATE: 4-3-18

RESTRICTOR DETAIL

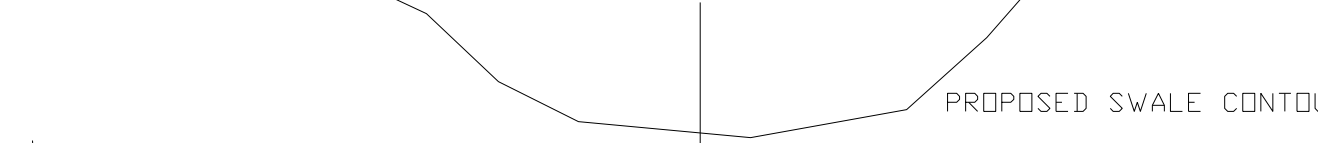
CITY OF WOOD DALE

STORM 19

EXISTING GROUND CONTOUR



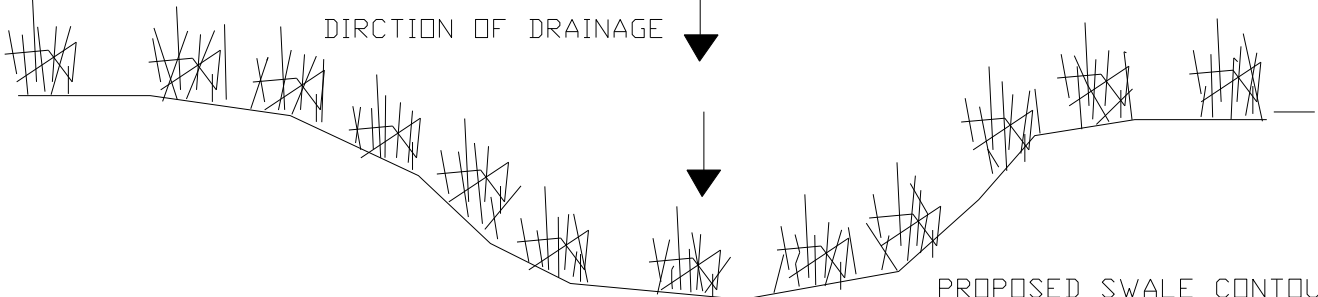
PROPOSED SWALE CONTOUR



DIRICTION OF DRAINAGE

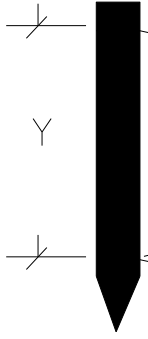


A —



PROPOSED SWALE CONTOUR

STAKE



Y

Y

Y

Y

STRING LINE

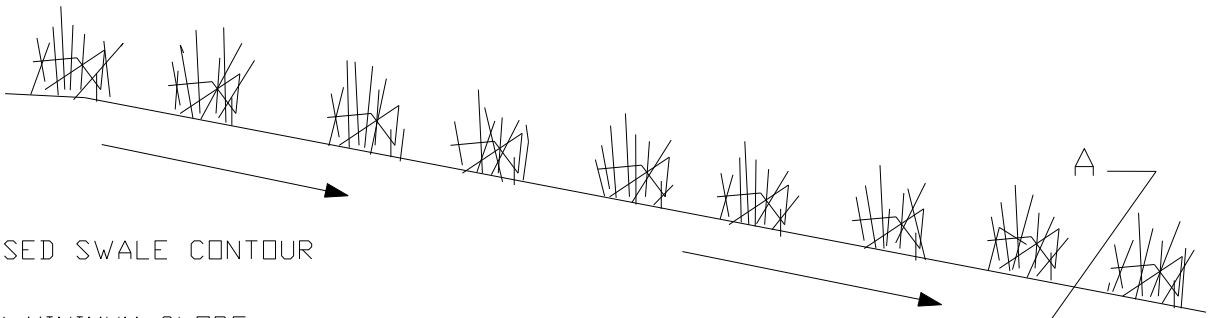
STAKE



Y

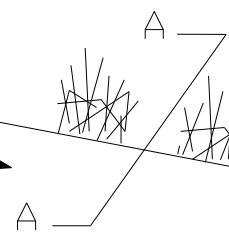
Y

Y



PROPOSED SWALE CONTOUR

1% MINIMUM SLOPE



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DRAWN BY:	DATE: 4-03-18

# SWALE CONSTRUCTION

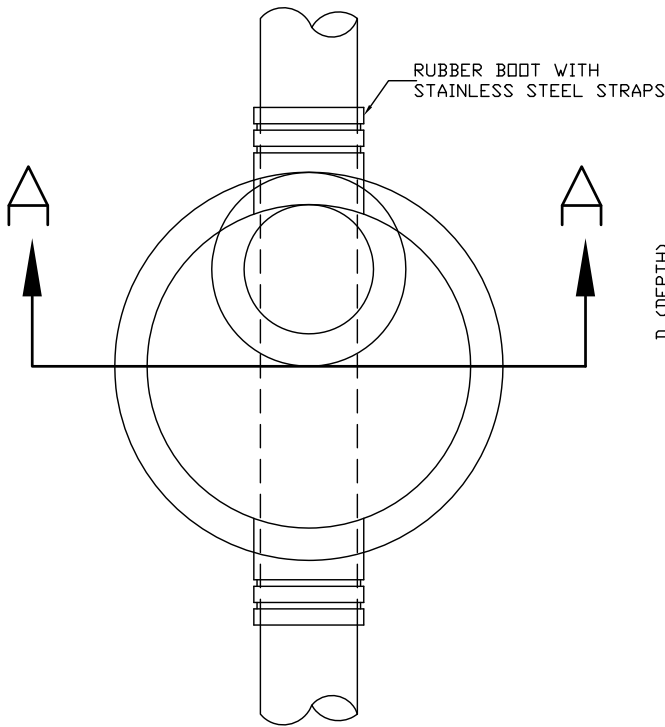
CITY OF WOOD DALE

STORM 20  
Packet Page #311

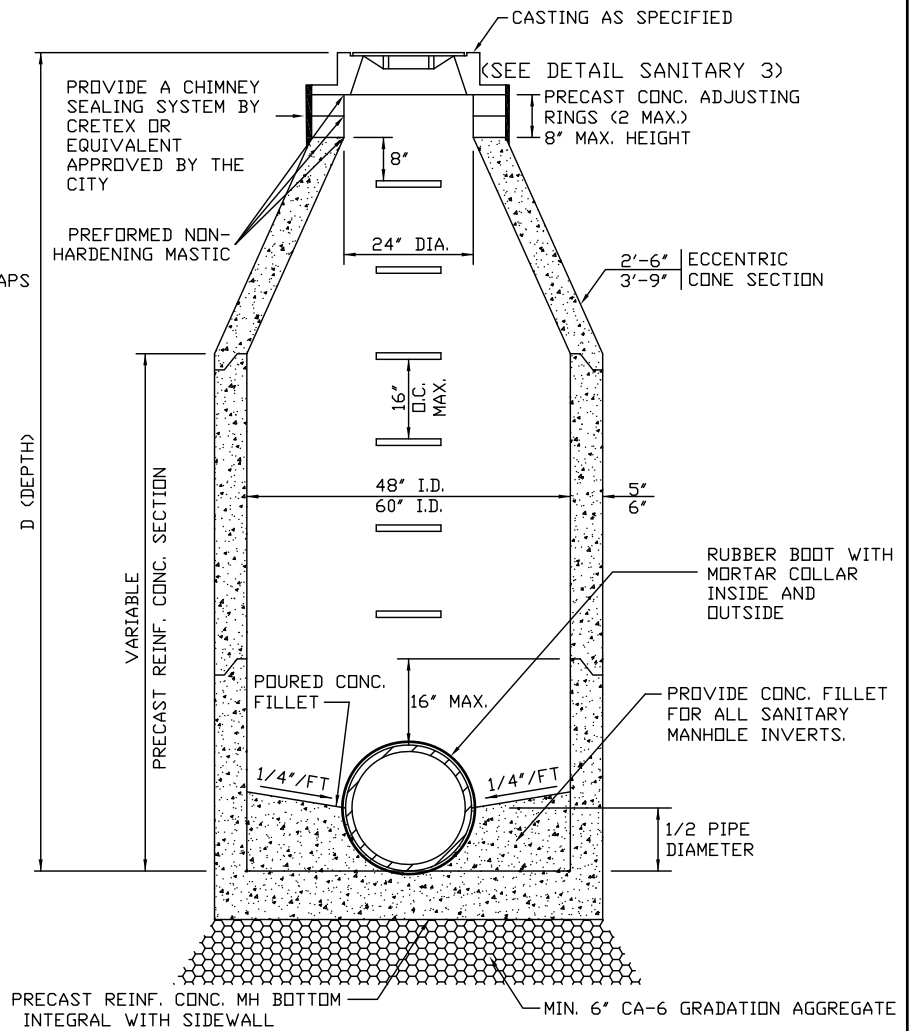
# SECTION 300- SANITARY SEWER DETAILS

SANITARY MANHOLE  
SANITARY MANHOLE FRAME AND COVER  
SANITARY RISER FOR SERVICE LATERAL 1  
SANITARY RISER FOR SERVICE LATERAL 2  
SANITARY SEWER TRENCH SECTION 1  
SANITARY SEWER TRENCH SECTION 2  
PRECAST CONE AND CHIMNEY  
CASING DETAIL  
CORING BOOT





PLAN



SECTION A-A

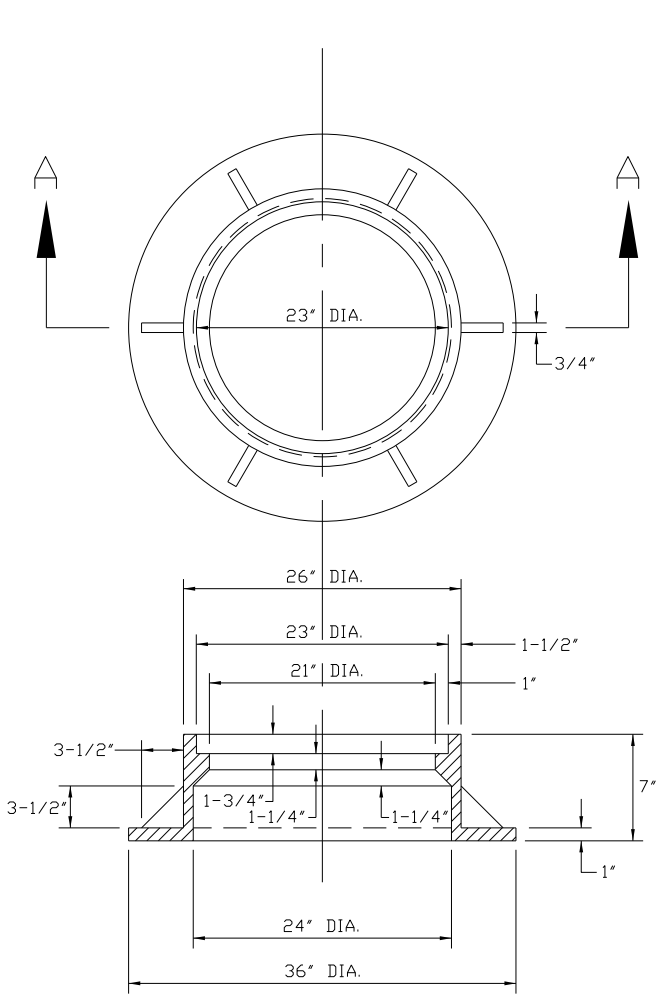
GENERAL NOTES:

1. PROVIDE PRECAST REINFORCED CONCRETE BARREL AND RISER SECTION. CONCRETE BLOCK CONSTRUCTION IS NOT PERMITTED.
2. PROVIDE SELECT GRANULAR BACKFILL AROUND MANHOLE TO SUBGRADE ELEVATION IN PAVED AREAS. MATERIAL SHALL MEET THE REQUIREMENTS OF IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" COARSE AGGREGATE CA-6 GRADATION, OR AS OTHERWISE DIRECTED BY THE CITY OR ITS REPRESENTATIVE.
3. APPLY A CONTINUOUS LAYER OF NON-HARDENING PREFORMED BITUMINOUS MASTIC MATERIAL (RUB-R-NEK OR EZ STICK) TO EACH JOINT TO PREVENT INFLOW.
4. WHEN THE FRAME DOES NOT MEET PROPOSED ELEVATION, A MAXIMUM OF TWO PRECAST CONCRETE RINGS MAY BE USED TO A MAXIMUM HEIGHT OF 8 INCHES. THE RING(S) AND FRAME SHALL BE SET IN A BED OF PREFORMED NON-HARDENING MASTIC (RUB-R-NEK OR APPROVED EQUAL).
5. PRECAST ADJUSTING RINGS SHALL BE REINFORCED WITH NO. 3 GAUGE WIRE OR EQUIVALENT.
6. MORTAR SHALL NOT BE USED TO DRESS UP ADJUSTING RINGS AND/OR FRAME.
7. ONLY PLASTIC POLYMER STEPS SHALL BE USED.
8. WHEN MANHOLE DEPTH IS OVER 12 FEET, THE THICKNESS OF THE BASE SHALL BE A MINIMUM OF 10 INCHES. WHEN MANHOLE DEPTH IS LESS THAN 12 FEET, THE THICKNESS SHALL BE A MINIMUM OF 8 INCHES.
9. DRESS UP INTERIOR JOINTS WITH HYDRAULIC CEMENT.
10. SANITARY MANHOLES SHALL BE CONSTRUCTED WITH A CHIMNEY SEALING SYSTEM BY CRETEX OR AN EQUAL APPROVED BY THE CITY, WHEN IN PAVMENT OR SUBJECT TO INUNDATION.

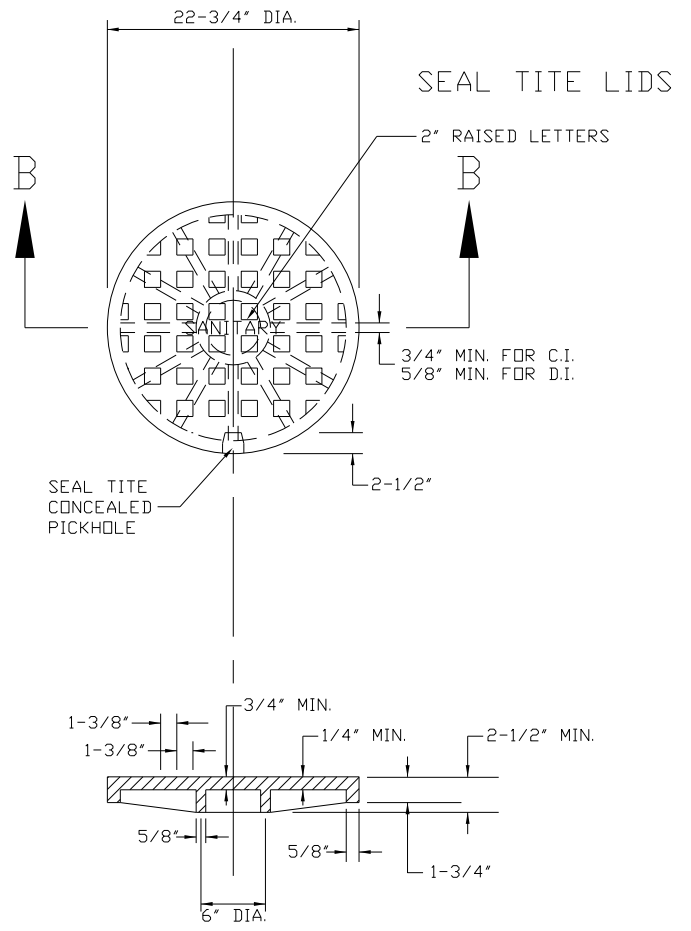
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DRAWN BY:	DATE: 4-3-18

**SANITARY MANHOLE**

CITY OF WOOD DALE  
 Packet Page #313  
 SANITARY 1



SECTION A-A  
CAST FRAME



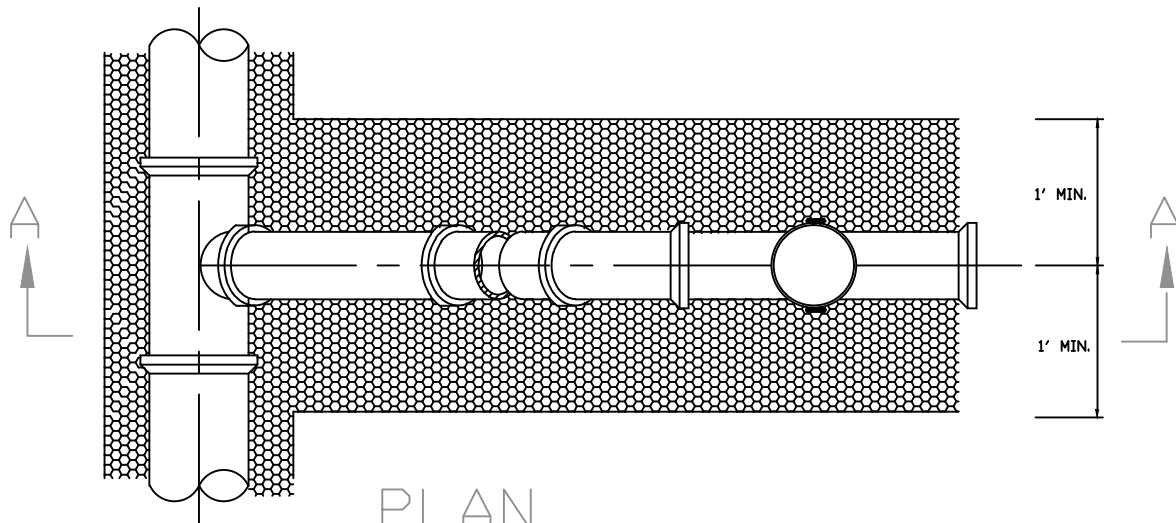
SECTION B-B  
CAST CLOSED LID  
(SEAL TITE CONCEALED PICKHOLE)

GENERAL NOTES:

1. DUCTILE IRON CASTING SHALL BE TESTED IN ACCORDANCE WITH FEDERAL SPECIFICATIONS.
2. ALL FRAMES AND COVERS SHALL HAVE A MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. PICK HOLES IN THE COVER SHALL NOT BE OPEN.
3. THE MANHOLE COVERS SHALL HAVE RAISED LETTERS AS SHOWN.
4. DIMENSIONS FOR CASTINGS ARE COMPARABLE TO EAST JORDAN IRON WORKS, INC. 1022 OR NEENAH FOUNDRY 1772 FURNISHED WITH TYPE F CONCEALED PICK HOLES.
5. WATERPROOF, BOLTDOWN FRAME AND COVER SHALL BE USED IN ANY LOCATION SUBJECT TO INUNDATION. (NEENAH R-1916, EAST JORDAN 1022 WT WITH TYPE 5 CLOSED PICK HOLES OR APPROVED EQUAL).
6. LIDS SHALL BE "WATERTITE" OR "SELF-SEALING" WITH A FACTORY INSTALLED GASKET.

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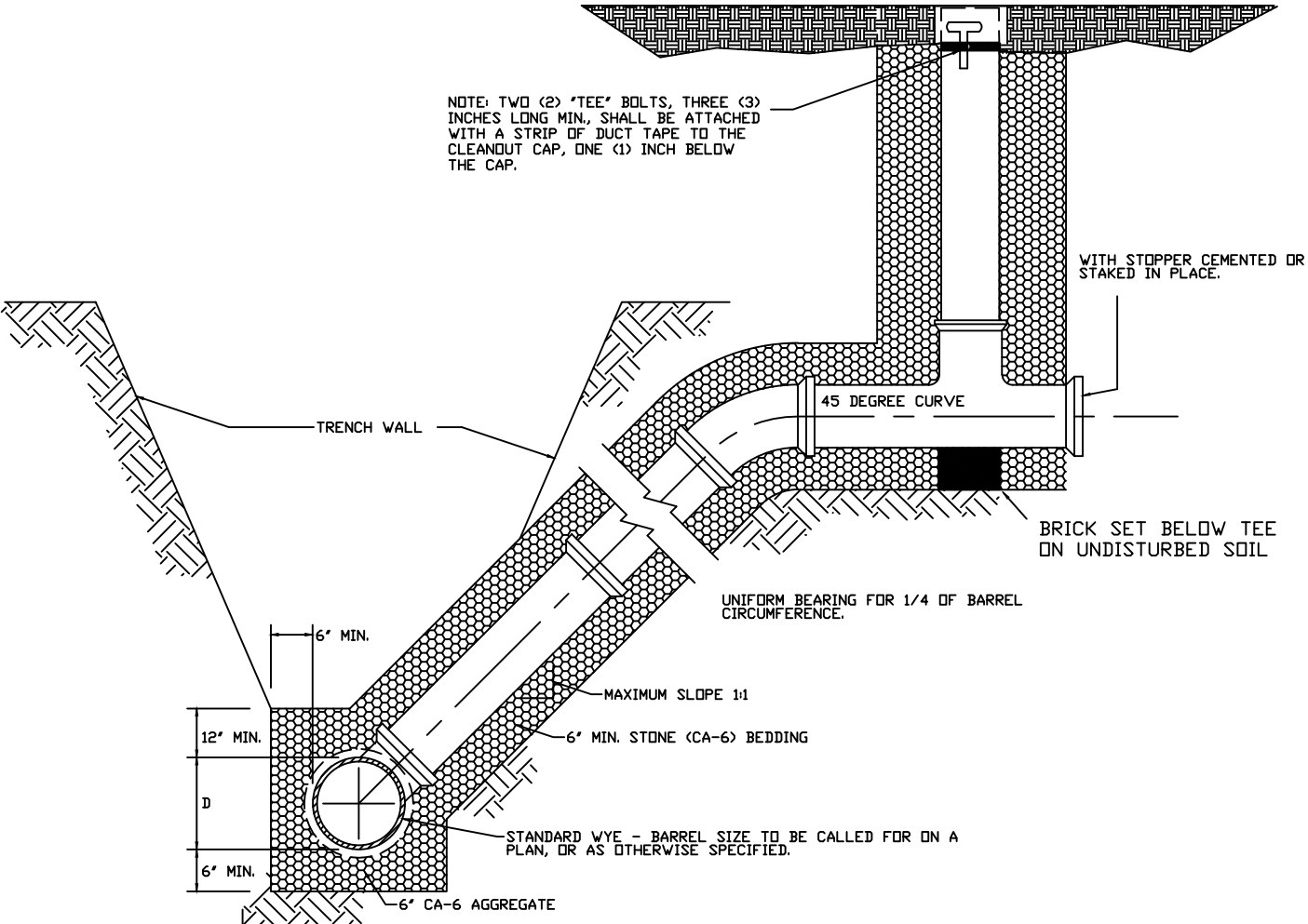
SANITARY MANHOLE  
FRAME AND COVER



PLAN

CAP TO BE SET AT FINISHED GRADE.  
 CAP IS TO BE AN ASTM 3034 SDR 26  
 (6") PVC PUSH ON CAP. GASKET SHALL  
 BE REMOVED FROM CAP.

NOTE: TWO (2) "TEE" BOLTS, THREE (3)  
 INCHES LONG MIN., SHALL BE ATTACHED  
 WITH A STRIP OF DUCT TAPE TO THE  
 CLEANOUT CAP, ONE (1) INCH BELOW  
 THE CAP.



SECTION A-A

REV.:	CJW	REV.:	11-05-2009
REV.:	ERH	REV.:	8-07-09
DRAWN BY:	VJGL	DATE:	2-16-98

RISER W/CLEANOUT  
 SERVICE LATERAL

CITY OF WOOD DALE  
 SANITARY 4

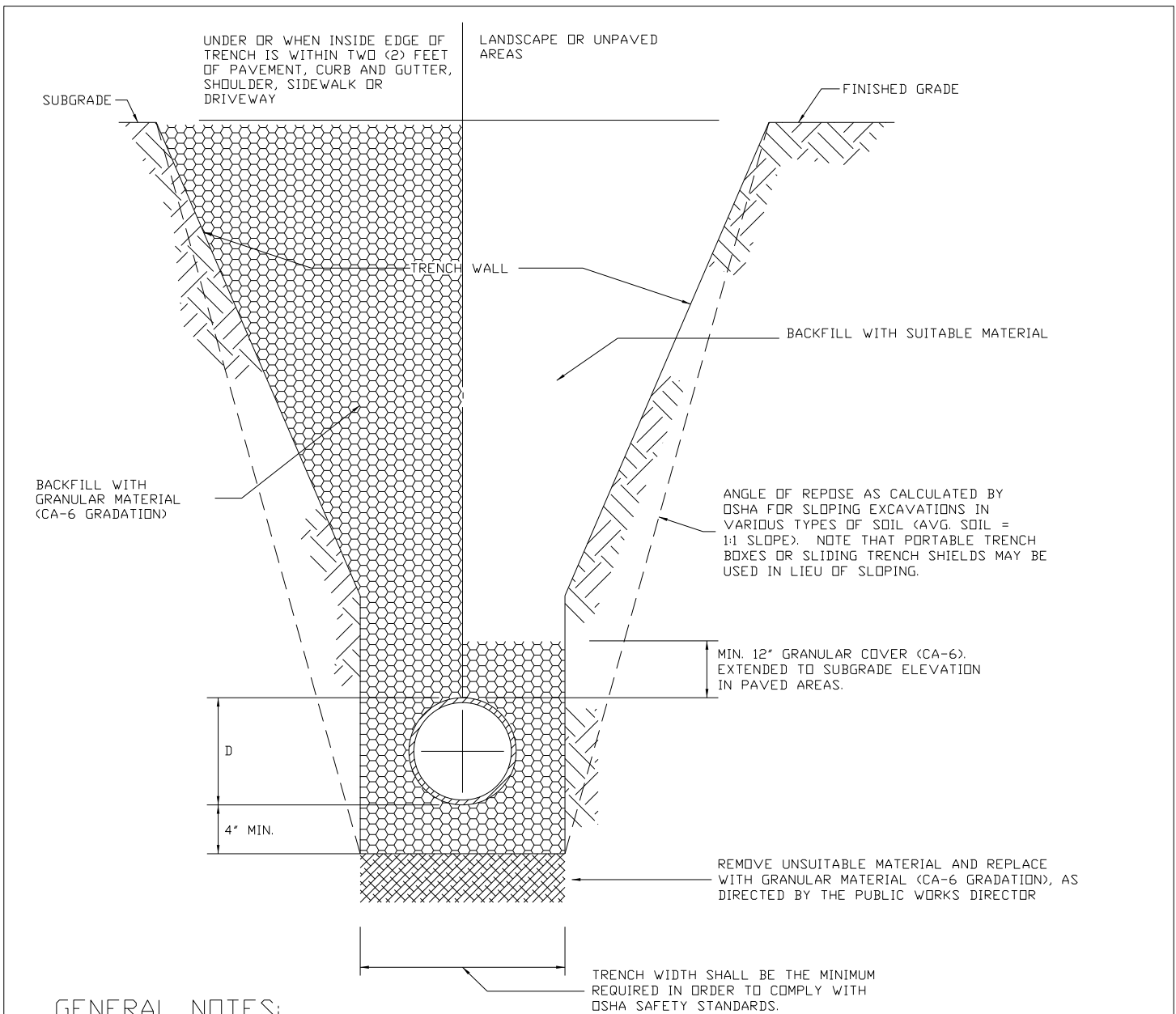
GENERAL NOTES:

1. THE OPEN ENDS SHALL BE PROTECTED FROM DEBRIS ENTERING THE LATERAL.
2. MAXIMUM SLOPE SHALL BE LESS THAN 1 TO 1 WHEN IT IS NECESSARY TO SECURE BEDDING IN UNDISTURBED EARTH.
3. WHEN SERVICE CONNECTION REQUIRES CORING AN EXISTING MAIN, A SEWER SADDLE SHALL BE USED. CLOW TYPE SHALL BE "SEALTITE" OR APPROVED EQUAL. BANDS AND BOLTS SHALL BE STAINLESS STEEL.
4. SERVICE TEE AND CLEAN OUT RISER SHALL BE PVC (SDR26/ASTM D2241). FOR CLEAN OUTS LOCATED WITHIN LANDSCAPED AREAS, THE CONTRACTOR SHALL USE P1215 DWV BUSHING AND G106 CAP MANUFACTURED BY PLASTIC TRENDS, INC (ASTM 3034). GASKET SHALL BE REMOVED FROM CAP.
5. CLEAN OUTS SHALL NOT BE LOCATED IN DRIVEWAY APRONS OR SIDEWALK UNLESS APPROVED BY THE PUBLIC WORKS DIRECTOR IF ALLOWED, THE CONTRACTOR SHALL USE SCHEDULE 40 DWV FIPT HUB ADAPTER AND THE RAISED MIPT PLUG (ASTM D 2665 OR ASTM D 1785) AND AN EAST JORDAN FRAME (2885) AND LID (2975). EQUIVALENT FITTINGS FROM OTHER MANUFACTURES ARE ACCEPTABLE AT THE DISCRETION OF THE PUBLIC WORKS DIRECTOR. WRITTEN ACCEPTANCE MUST BE OBTAINED PRIOR TO THE EQUIVALENT MATERIALS BEING APPROVED. GEOMETRIC STANDARDS CANNOT BE VARIED.

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SANITARY RISER FOR  
SERVICE LATERAL

CITY OF WOOD DALE
Packet Page #316 SANITARY 4A



GENERAL NOTES:

1. CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A SAFE MANNER AT ALL TIMES AND SHALL COMPLY WITH ALL APPLICABLE GOVERNING REGULATIONS, INCLUDING BUT NOT LIMITED TO OSHA SAFETY STANDARDS.
2. ALL BACKFILL MATERIAL UP TO A HEIGHT OF 12 INCHES ABOVE THE PIPE SHALL BE CAREFULLY DEPOSITED IN UNIFORM LAYERS NOT EXCEEDING 8 INCHES THICK (LOOSE MEASURE). THE MATERIAL IN EACH LAYER SHALL BE FIRMLY COMPACTED BY RAMMING OR TAMPING WITH TOOLS APPROVED BY THE PUBLIC WORKS DIRECTOR IN SUCH A MANNER AS NOT TO DISTURB OR INJURE THE PIPE. THE BACKFILLING ABOVE THIS HEIGHT SHALL BE DONE AS NOTED BELOW.
3. GRANULAR BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED AS SPECIFIED IN NOTE 2, ABOVE. THE USE OF JETTING SHALL NOT BE ALLOWED UNLESS AUTHORIZED IN WRITING BY THE PUBLIC WORKS DIRECTOR. IT SHALL BE THE DESIGN ENGINEER OR CONTRACTOR'S RESPONSIBILITY TO PROVIDE APPROPRIATE JUSTIFICATION AND DOCUMENTATION (SOIL INVESTIGATION REPORTS, ETC.) TO THE CITY WITH THE REQUEST FOR APPROVAL OF JETTING.
4. BACKFILL MATERIAL CONSISTING OF SUITABLE EXCAVATED MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING TWELVE (12) INCHES THICK (LOOSE MEASURE) AND EACH LAYER SHALL BE COMPACTED BY RAMMING OR TAMPING TO ACHIEVE THE REQUIRED COMPACTION. JETTING OF THIS MATERIAL MAY BE PERMITTED WHEN AUTHORIZED IN WRITING BY THE PUBLIC WORKS DIRECTOR. IT SHALL BE THE DESIGN ENGINEER OR THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT APPROPRIATE JUSTIFICATION AND DOCUMENTATION (SOIL INVESTIGATION REPORTS, ETC.) TO THE CITY WITH THE REQUEST FOR APPROVAL OF JETTING.

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SANITARY SEWER  
TRENCH SECTION

GENERAL NOTES CONT:

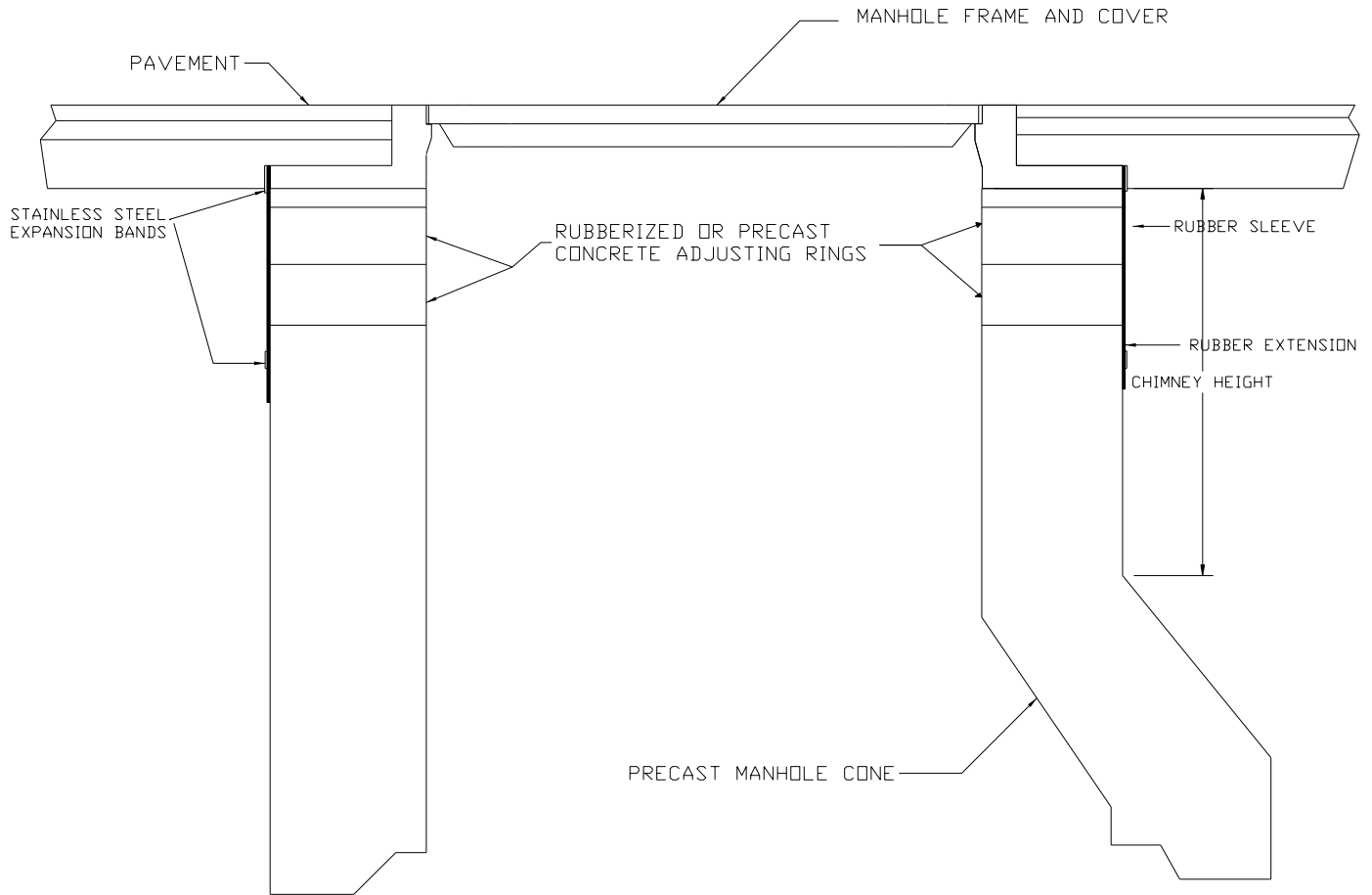
5. GRANULAR MATERIAL FOR BACKFILL AND BEDDING SHALL BE GRAVEL, CRUSHED GRAVEL OR STONE MEETING THE REQUIREMENTS OF THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" FOR COARSE AGGREGATE (CA-6 GRADATION).
6. MINIMUM COVER OVER THE TOP OF PIPE SHALL BE TWELVE (12) INCHES BELOW FINISHED SUBGRADE IN PAVED AREAS AND TWELVE (12) INCHES BELOW FINISHED GRADE IN LANDSCAPE AREAS.
7. THE BEDDING THICKNESS SHALL BE EQUAL TO ONE-QUARTER (1/4) OF THE OUTSIDE DIAMETER OF THE PIPE BUT NOT LESS THAN FOUR (4) INCHES.

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SANITARY SEWER  
TRENCH SECTION

CITY OF WOOD DALE

SANITARY 5A  
Packet Page #318



## SECTIONAL VIEW PRECAST CONE AND CHIMNEY GENERAL NOTES:

1. THE RUBBER SLEEVE IS AVAILABLE IN BOTH THE STANDARD 9" WIDE OR THE NARROW 6" WIDE CROSS SECTION.
2. SEE CHIMNEY HEIGHT TABLE OF SEAL AND EXTENSION COMBINATIONS NEEDED TO SPAN FROM THE FRAME TO THE TOP OF THE CONE ON MANHOLES WITH VARIOUS CHIMNEY HEIGHTS. DIAMETER DIFFERENTIALS WILL REDUCE THESE SPAN HEIGHTS.
3. THE TOP OF THE CONE MUST HAVE A MINIMUM 2" HIGH VERTICAL SURFACE THAT IS SMOOTH AND FREE OF ANY FORM OFFSETS OR EXCESSIVE HONEYCOMB.
4. CHIMNEY SEALS SHALL BE REQUIRED UNLESS THE MANHOLE IS ADJUSTED TO FINAL GRADE IN ACCORDANCE WITH DETAIL STORM 7 - CASTING ADJUSTMENTS FOR STRUCTURES IN PAVED AREAS.

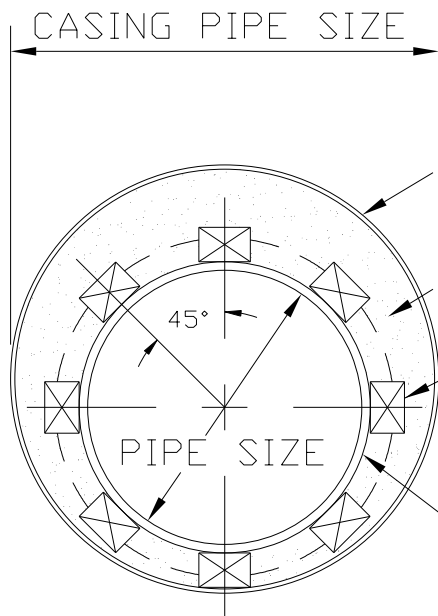
COMBINATIONS OF SEALS & EXTENSIONS	TO SPAN HEIGHTS OF:
NARROW (6") SEAL ONLY	0 - 3"
STANDARD (9") SEAL ONLY	OVER 3" - 6.5"
STANDARD SEAL + EXTENSION	OVER 6.5" - 13.5"
SEAL + MULT. EXTENSIONS	OVER 13.5"
+ 7" FOR EACH ADDED EXTENSION	
NOTE: FRAME OFFSETS AND DIAMETER DIFFERENTIALS WILL REDUCE THESE SPAN HEIGHTS.	

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PRECAST CONE  
AND CHIMNEY

CITY OF WOOD DALE

SANITARY 6



CASING PIPE WITH 0.25" THICK WALL WITH WELDED JOINTS

SAND BLOWN-IN THE ENTIRE LENGTH. SEAL ENDS WITH BRICK AND MORTAR

MANUFACTURED CASING SPACERS MIN. 24" LONG ATTACHED TO PIPING W/ METAL STRAPPING. PROVIDE SPACERS AT EACH END & INTERMEDIATE SPACERS AT MIN. 8' O.C. FOR EACH LENGTH OF PIPE.

PIPE PUSHED OR PULLED WITH CABLE THRU CASING PIPE.

## CASING PIPE DETAILS

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DRAWN BY:	DATE: 4-3-18

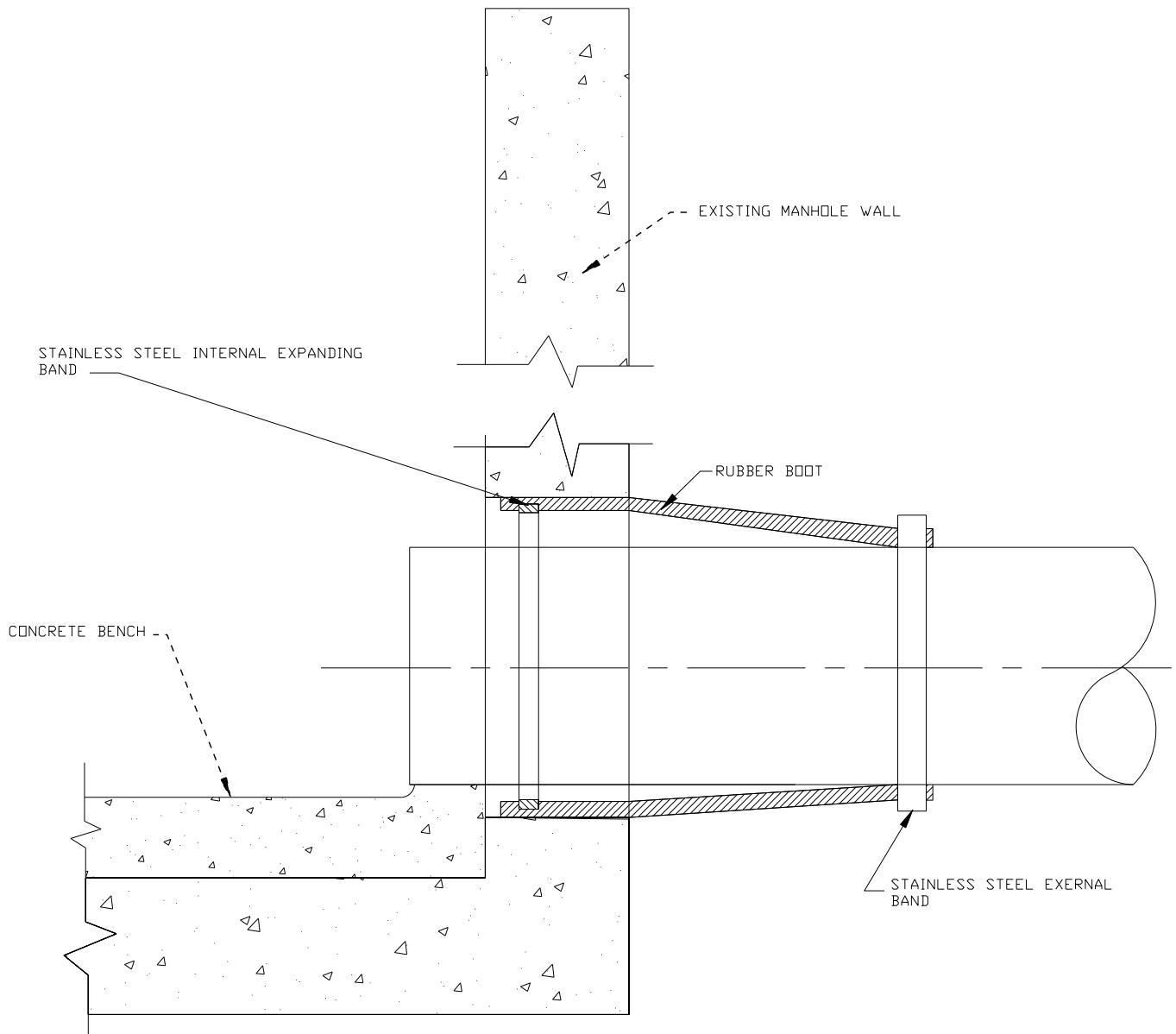
CASING DETAIL

CITY OF WOOD DALE

SANITARY 7

Packet Page #320





GENERAL NOTES:

1. CORE-DRILL CIRCULAR OPENING IN MANHOLE WALL OF DIAMETER TO FIT THE REQUIRED BOOT SIZE.
2. KOR-N-SEAL FLEXIBLE RUBBER BOOT (MANUFACTURED BY NATIONAL POLLUTION CONTROL SYSTEMS, INC.) OR APPROVED EQUAL SHALL BE USED FOR WATERTIGHT CONNECTION.
3. CUT, SHAPE AND SLOPE NEW INVERT CHANNEL IN THE EXISTING CONCRETE BENCH FOR SMOOTH FLOW FROM NEW SANITARY SEWER CONNECTION.
4. CLEAN EXISTING MANHOLE OF ANY DIRT, CONCRETE OR DEBRIS WHICH MAY ACCUMULATE DURING THE CONSTRUCTION PROCESS.

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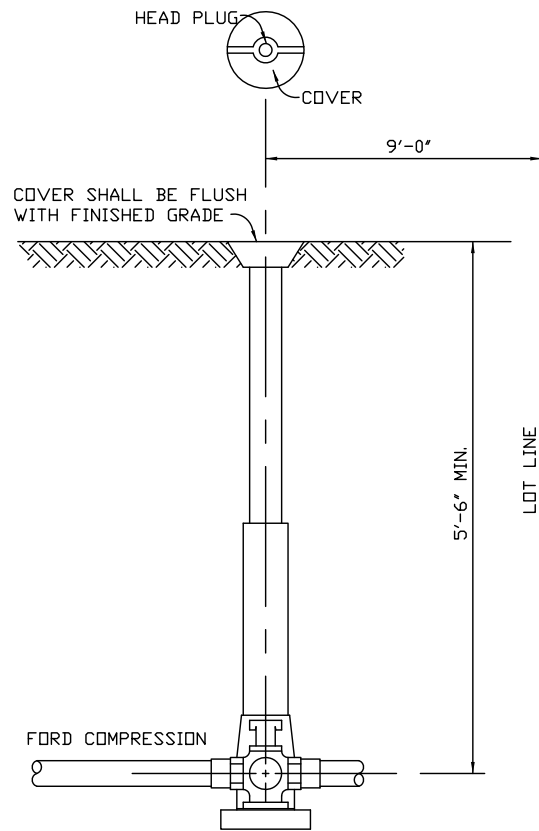
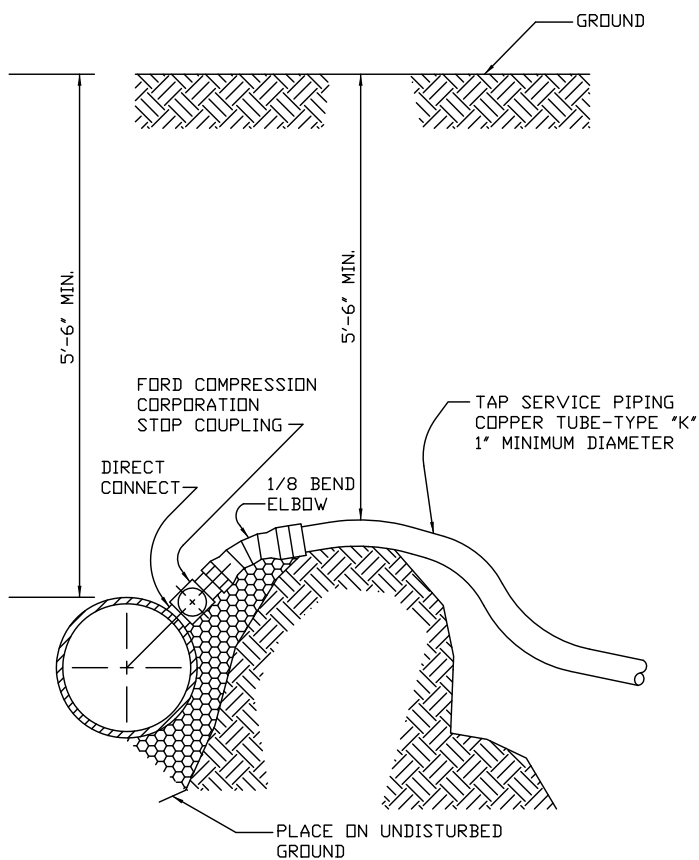
CORING BOOT

CITY OF WOOD DALE

SANITARY 8  
Packet Page #321

# SECTION 400- WATER MAIN DETAILS

WATER SERVICE TAP AND CONNECTION  
HYDRANT SETTING  
VALVE BOX INSTALLATION  
WATER TIGHT VALVE VAULT  
VALVE VAULT FRAME AND COVER  
THRUST BLOCK INSTALLATION  
WATER MAIN TRENCH SECTION  
WATER AND SEWER SEPARATION  
CONCRETE SADDLE SUPPORT  
TYPICAL PRESSURE CONNECTION IN VAULT  
B-BOX ENCASEMENT



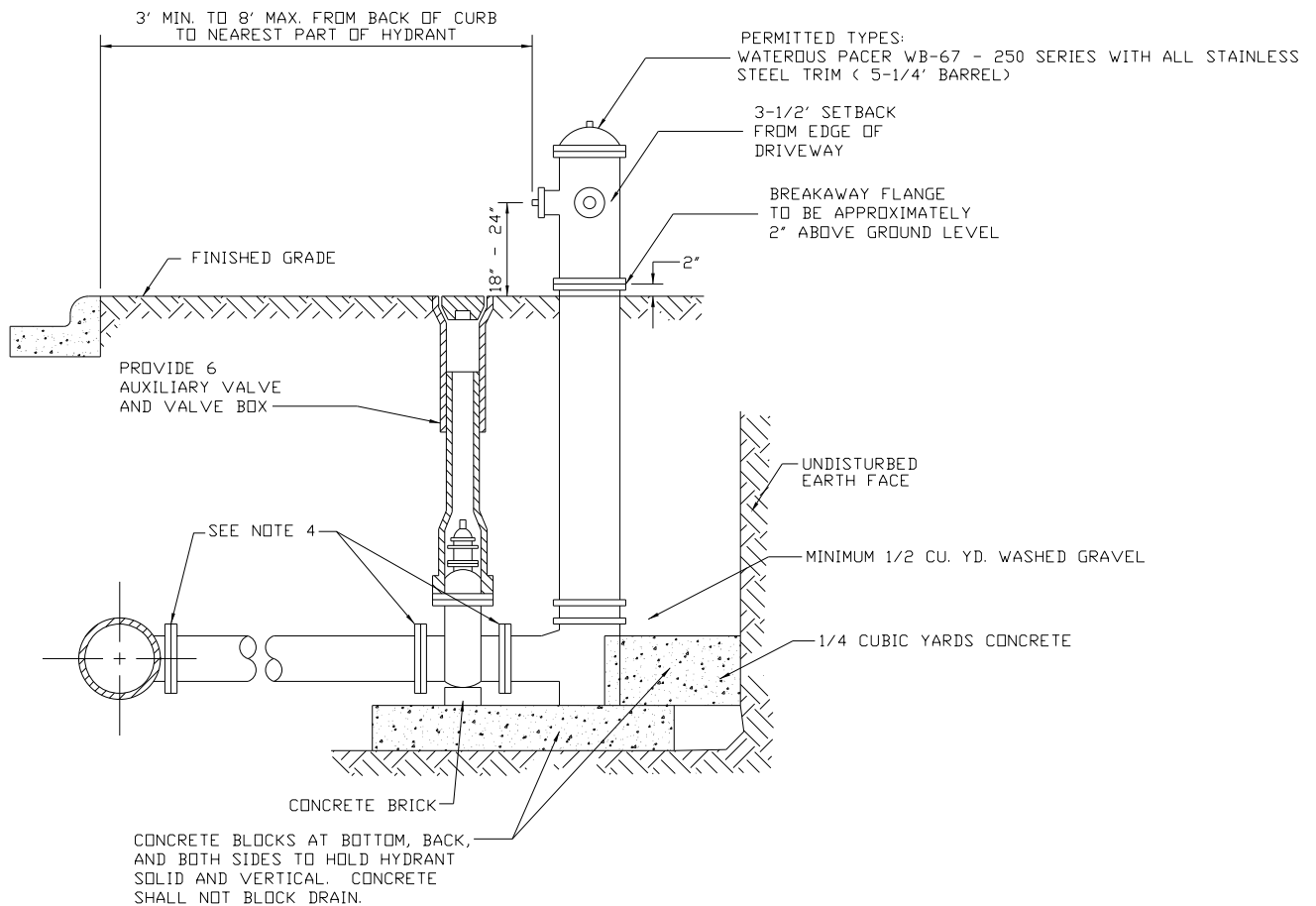
**GENERAL NOTES:**

1. WATER SERVICE LINE SHALL BE TYPE K COPPER MANUFACTURED IN ACCORDANCE WITH ASTM B88 AND B251 OR APPROVED EQUAL.
2. FOR 1" SERVICE LINES CORPORATION STOPS SHALL BE EITHER MUELLER H-15008 OR 2500 AY MCDONALD OR APPROVED EQUAL.
3. FOR 1 1/2" AND 2" SERVICE LINES CORPORATION STOPS SHALL BE EITHER MUELLER B-25008 OR FORD FB600 OR APPROVED EQUAL.
4. SERVICE LINES GREATER THAN 1" N DIAMETER SHALL HAVE A STAINLESS STEEL BANDED DUCTILE IRON SADDLE (JCM 406 OR CASCADE C-2 TAPPING SLEEVE).
5. B-BOX SHALL BE MUELLER H-10302 OR APPROVED EQUAL.
6. CORPORATION STOPS SHALL BE INSTALLED A MINIMUM OF 18" FROM BELL SECTIONS AND/OR PIPE FITTINGS. MULTIPLE INSTALLATIONS SHALL BE STAGGERED AROUND THE MAIN BY 90° AND SEPARATED BY 18".

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**WATER SERVICE  
TAP AND CONNECTION**

CITY OF WOOD DALE
Packet Page #323 WATER 1



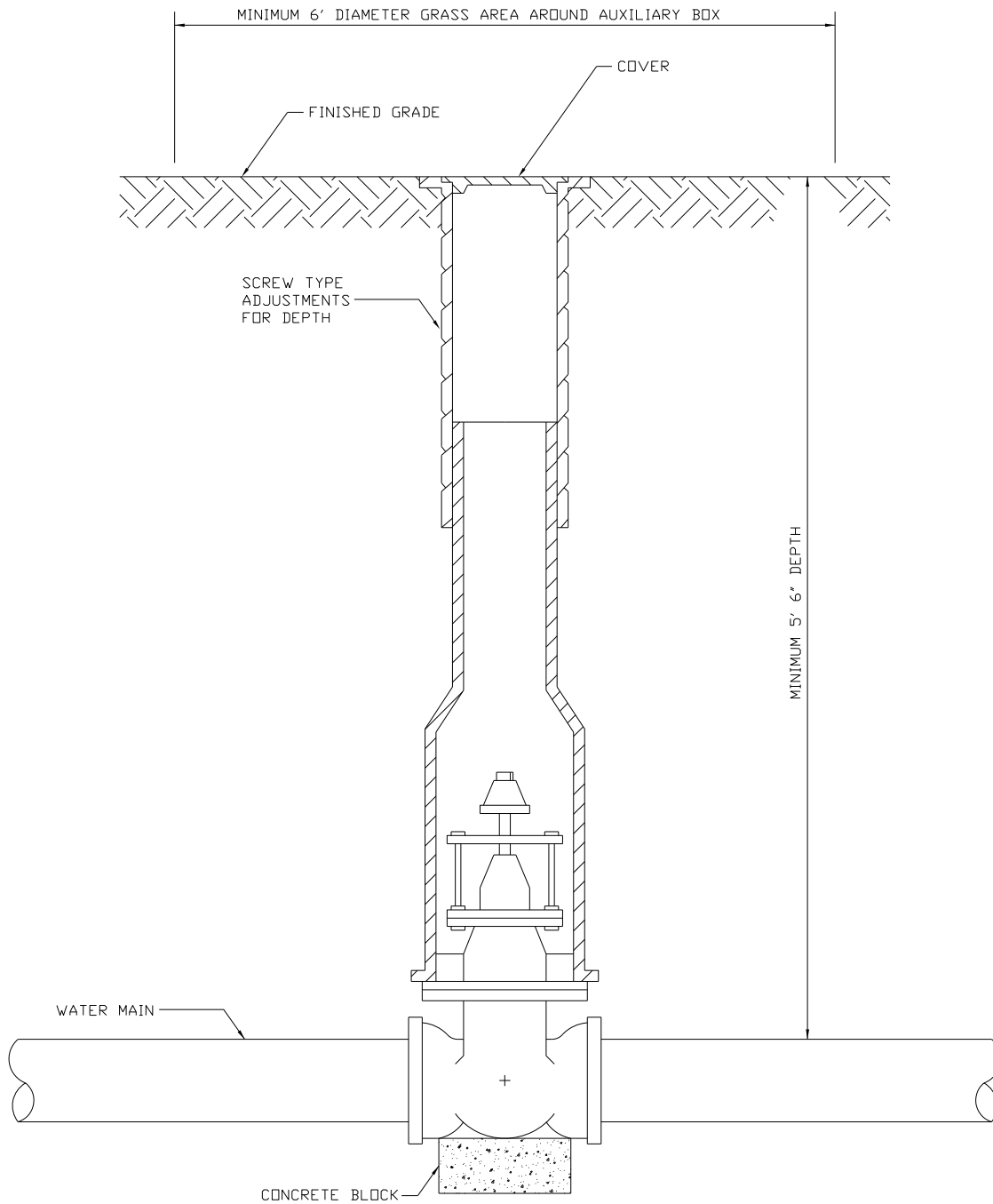
GENERAL NOTES:

1. MAXIMUM BARREL EXTENSIONS ARE 18 INCHES AND SHALL BE CLOW MEDALLION OR MUELLER CENTURION EXTENSION FOR WATEROUS HYDRANTS.
2. ALL HYDRANTS ARE TO BE SUPPLIED WITH A 6" FLANGED AND MECHANICAL JOINT AUXILIARY VALVE THAT CONFORMS TO AWWA C515. THE GATE VALVE STEM AND WEDGE NUT SHALL CONFORM WITH SECTION 4.4.5.1 OF AWWA 515. ALL TRIM BOLTS ARE TO BE STAINLESS STEEL.
3. THE HYDRANT WILL EXCEED ALL THE REQUIREMENTS OF AWWA C502.
4. RESTRAINED JOINTS ARE REQUIRED THROUGHOUT THE FIRE HYDRANT ASSEMBLY.

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HYDRANT SETTING

CITY OF WOOD DALE
WATER 2

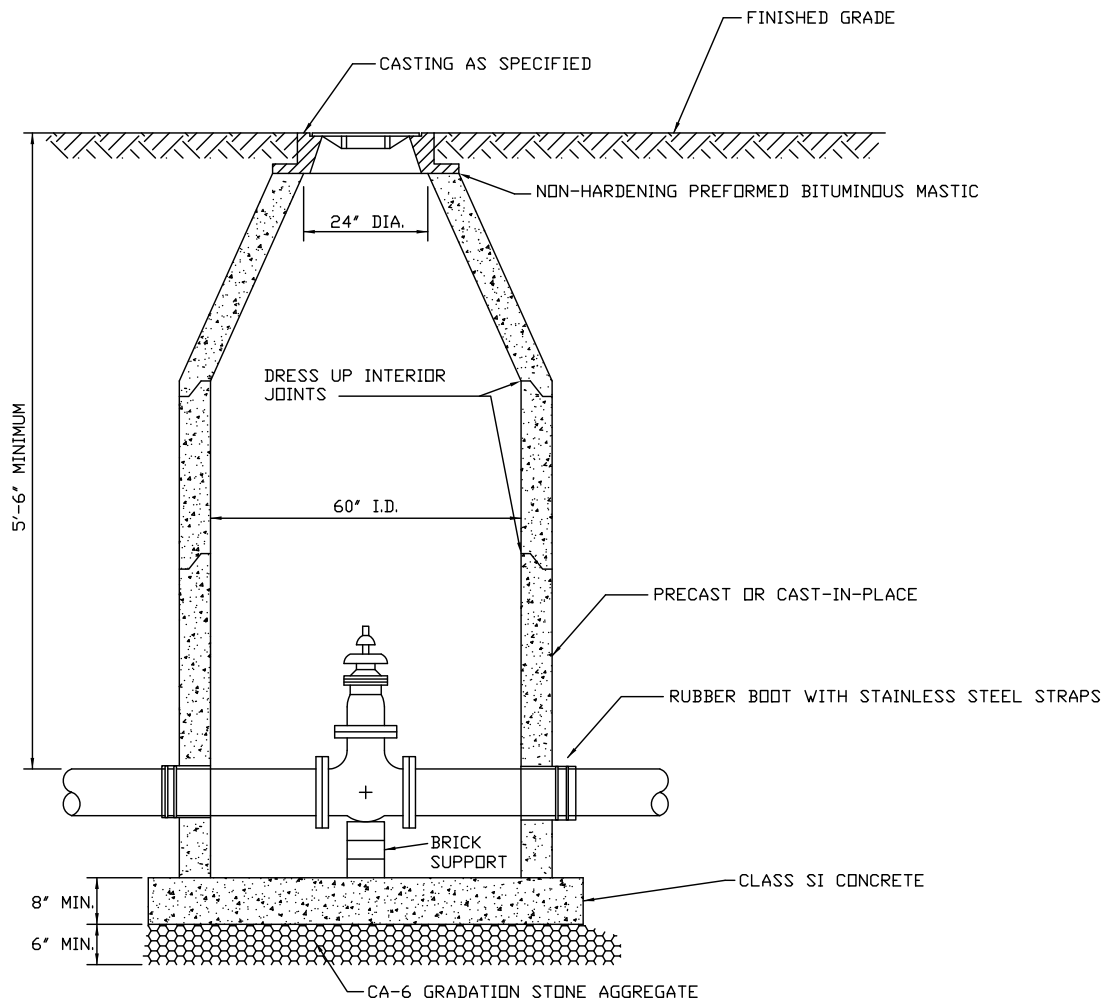


GENERAL NOTES:

1. ALL VALVES 2-1/2" OR LARGER SHALL BE PLACED IN A VALVE VAULT, UNLESS APPROVED BY THE DIRECTOR OF PUBLIC WORKS.
2. VALVES SHALL BE MUELLER A-2360 RESILIENT WEDGE GATE VALVE WITH STAINLESS STEEL TRIM BOLTS OR WATEROUS 2500 RESILIENT WEDGE GATE VALVE WITH STAINLESS STEEL TRIM BOLTS OR APPROVED EQUAL.
3. VALVES THAT REQUIRE RESTRAINT JOINTS, MAY USE FIELD-LOK OR MEGA LUG BRANDS.

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VALVE BOX  
INSTALLATION



**GENERAL NOTES:**

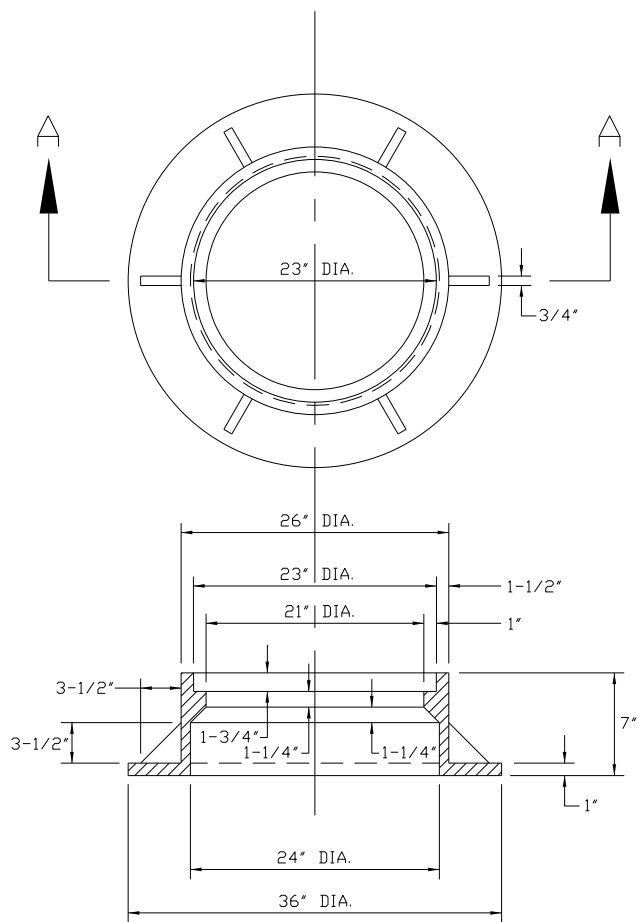
1. PROVIDE PRECAST REINFORCED CONCRETE BARREL AND RISER SECTION. CONCRETE BLOCK CONSTRUCTION IS NOT PERMITTED.
2. PROVIDE TRENCH BACKFILL, CA-6 GRADATION, AROUND MANHOLE TO SUBGRADE ELEVATION IN PAVED AREAS.
3. APPLY A CONTINUOUS LAYER OF NON-HARDENING PREFORMED BITUMINOUS MASTIC MATERIAL (RUB-R-NEK OR E Z STICK) TO EACH JOINT TO PREVENT INFLOW.
4. WHEN THE FRAME DOES NOT MEET PROPOSED ELEVATION, A MINIMUM OF TWO TAPERED RUBBERIZED ADJUSTING RINGS SHALL BE USED FOR FINAL ADJUSTMENT. ONE CONCRETE RING NOT LESS THAN TWO INCHES THICK MAY ALSO BE USED. A MAXIMUM OF THREE ADJUSTING RINGS MAY BE USED TO A MAXIMUM HEIGHT OF 12 INCHES. EACH RING AND THE FRAME SHALL BE SET ON A BED OF NON-PREFORMED MASTIC.
5. PRECAST ADJUSTING RINGS SHALL BE REINFORCED WITH NO. 3 GAUGE WIRE OR EQUIVALENT.
6. WITHIN NON-PAVED AREAS, MORTAR SHALL ONLY BE USED TO DRESS UP ADJUSTING RINGS AND/OR FRAME ON THE EXTERIOR OF THE STRUCTURE. MORTAR IS NOT PERMITTED ON THE INSIDE OF THE RINGS AND/OR FRAME.
7. PLASTIC POLYMER STEPS SHALL NOT BE INSTALLED, UNLESS APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR THEIR DESIGNEE.
8. DRESS UP INTERIOR JOINTS WITH HYDRAULIC CEMENT.
9. VALVE MUST ALIGN WITH CENTER OF VAULT OPENING.
10. CONES MUST BE CONCENTRIC WITH VALVES 12" AND SMALLER.
11. BUTTERFLY VALVES REQUIRE ECCENTRIC CONES.
12. ALL VALVE VAULTS REQUIRE RUBBER BOOTS WITH STAINLESS STEEL STRAPS WITH THE EXCEPTION OF PRESSURE CONNECTION VALVE VAULTS. (SEE WATER DETAIL 10).
13. CHIMNEY SEALS SHALL BE REQUIRED UNLESS THE VALVE VAULT IS ADJUSTED TO FINAL GRADE IN ACCORDANCE WITH DETAIL STORM 7 - CASTING ADJUSTMENTS FOR STRUCTURES IN PAVED AREAS.

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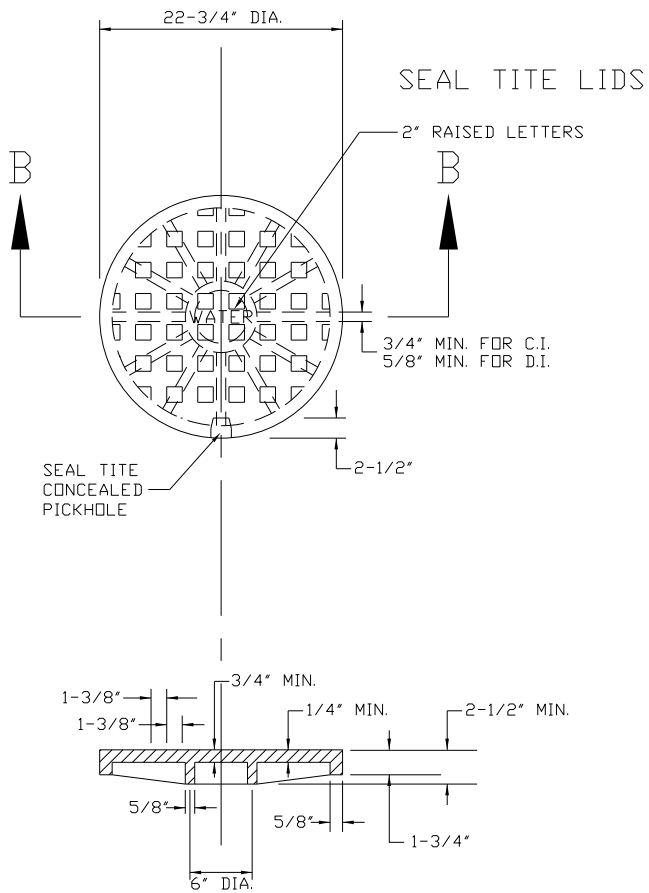
**WATER TIGHT  
VALVE VAULT**

CITY OF WOOD DALE

WATER 4  
Packet Page #326



SECTION A-A  
CAST FRAME



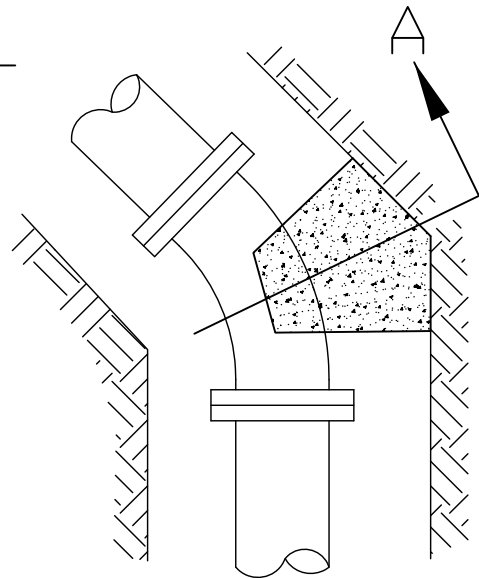
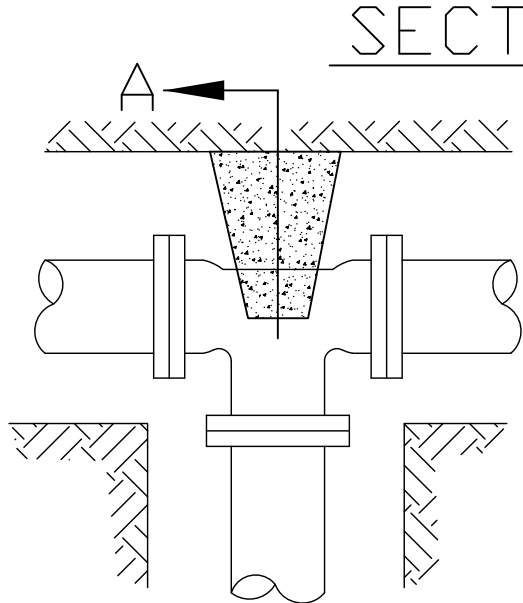
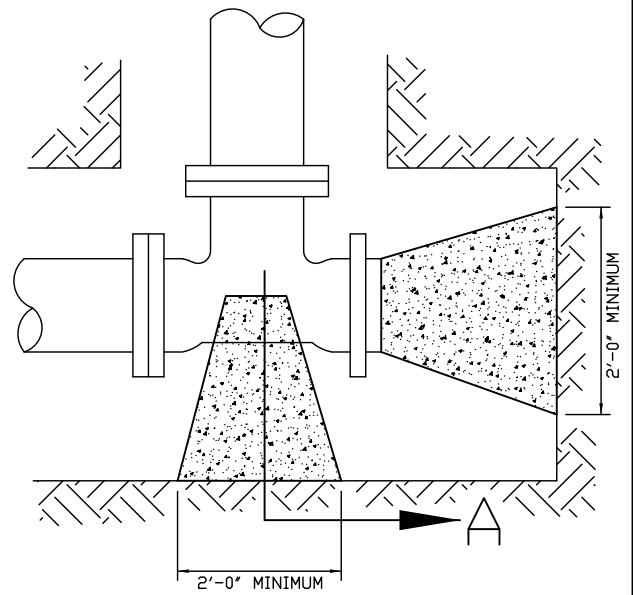
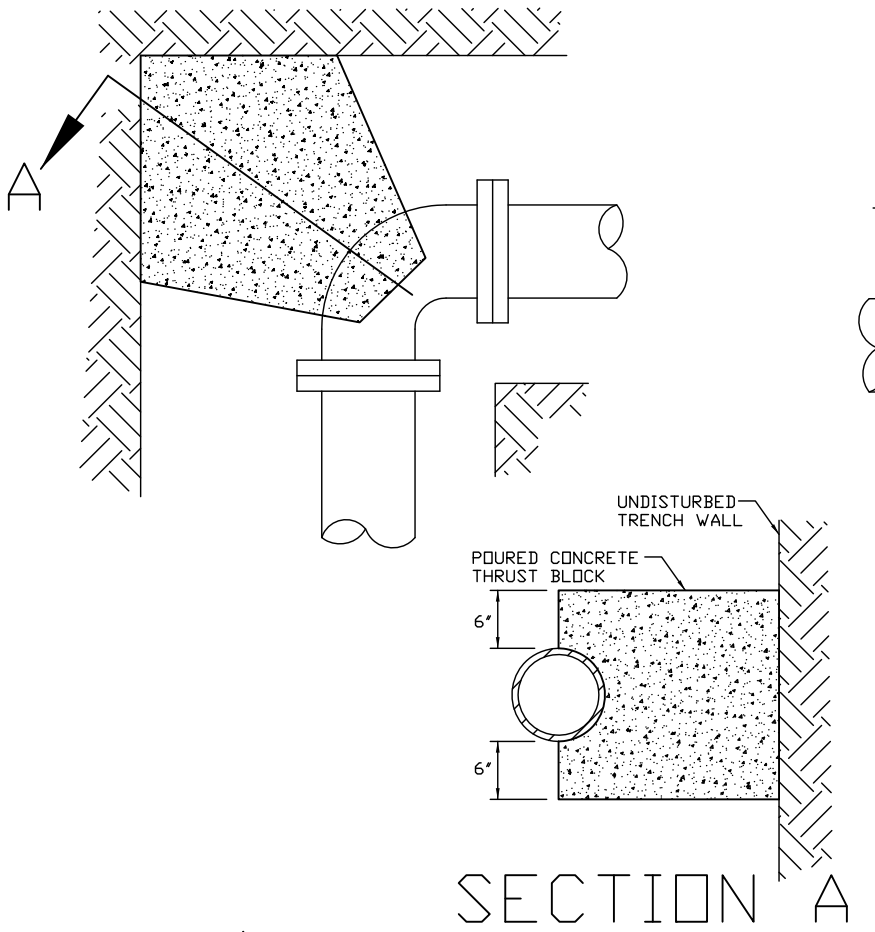
SECTION B-B  
CAST CLOSED LID  
(SEAL TITE CONCEALED PICKHOLE)

GENERAL NOTES:

1. DUCTILE IRON CASTING SHALL BE TESTED IN ACCORDANCE WITH FEDERAL SPECIFICATIONS.
2. ALL FRAMES AND COVERS SHALL HAVE A MACHINED HORIZONTAL AND VERTICAL BEARING SURFACES. PICK HOLES IN THE COVER SHALL NOT BE OPEN.
3. THE MANHOLE COVERS SHALL HAVE RAISED LETTERS AS SHOWN.
4. DIMENSIONS FOR CASTINGS ARE COMPARABLE TO EAST JORDAN 1022 OR NEENAH FOUNDRY 1772.
5. WATERPROOF, BOLTDOWN FRAME AND COVER SHALL BE USED IN ANY LOCATION SUBJECT TO INUNDATION. (NEENAH R-1916-C, EAST JORDAN 1022 WT OR APPROVED EQUAL).
6. LIDS SHALL BE "WATERTITE" OR "SELF-SEALING" WITH A FACTORY INSTALLED GASKET.

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VALVE VAULT  
FRAME AND COVER



**GENERAL NOTES:**

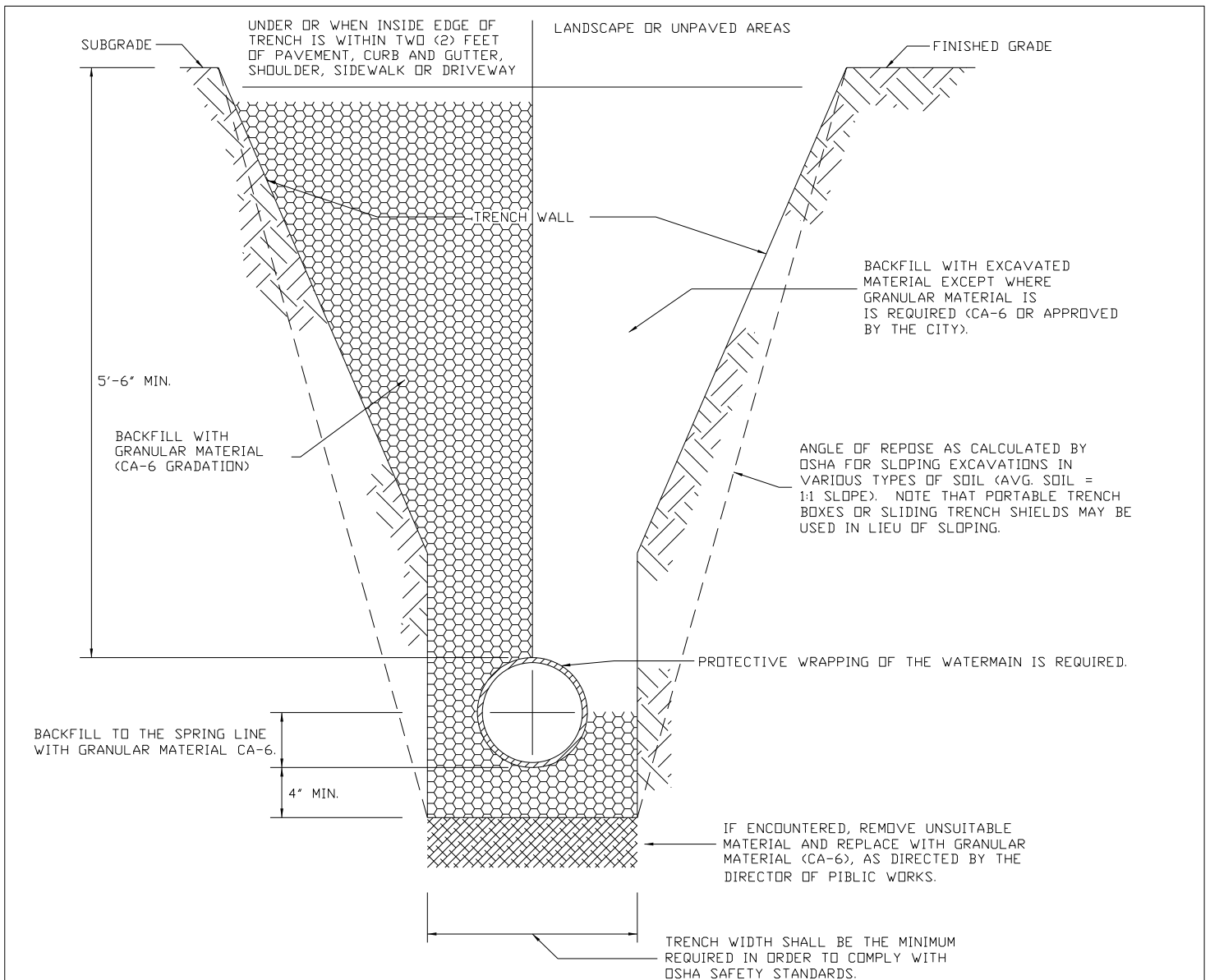
1. THRUST BLOCKING IS USED TO PREVENT MOVEMENT OF LINES UNDER PRESSURE BENDS, TEES, CAPS, VALVES, HYDRANTS, AND AT POINTS SPECIFIED BY THE CITY. CONCRETE SHALL BE CLASS SI AND BE A MINIMUM OF TWELVE (12) INCHES THICK PLUS THE SIZE OF THE WATERMAIN. IT SHALL BE PLACED BETWEEN SOLID GROUND AND FITTINGS. FITTINGS WILL BE ACCESSIBLE FOR REPAIRS. THRUST BLOCK SHALL BE PLACED AT BENDS OF 11-1/4 DEGREES OR MORE. THE AREA OF BEARING SHALL BE SUFFICIENT TO RESIST THE APPLIED FORCES. USE OF 90 DEGREE BENDS REQUIRE APPROVAL FROM THE CITY PRIOR TO INSTALLATION.
2. USE OF WOOD MATERIAL FOR THRUST BLOCKING IS STRONGLY PROHIBITED.
3. THRUST BLOCKS MAY BE PRECAST OR CAST-IN-PLACE.

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**THRUST BLOCK  
INSTALLATION**

CITY OF WOOD DALE
WATER 6 Packet Page #328





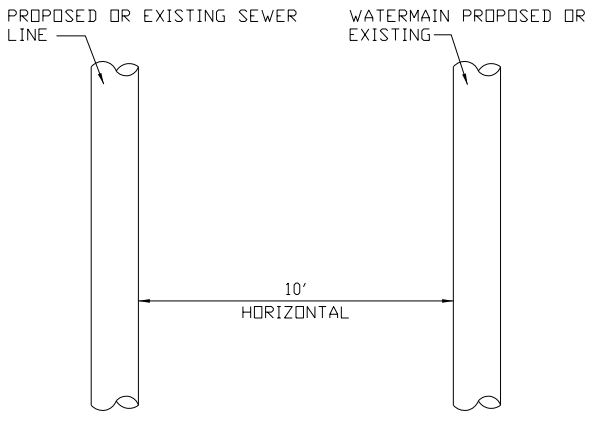
**GENERAL NOTES:**

1. CONTRACTOR SHALL CONDUCT HIS OPERATIONS IN A SAFE MANNER AT ALL TIMES AND SHALL COMPLY WITH ALL APPLICABLE GOVERNING REGULATIONS, INCLUDING BUT NOT LIMITED TO OSHA SAFETY STANDARDS.
2. ALL BACKFILL MATERIAL UP TO A HEIGHT OF 12 INCHES ABOVE THE PIPE SHALL BE CAREFULLY DEPOSITED IN UNIFORM LAYERS NOT EXCEEDING 8 INCHES THICK (LOOSE MEASURE). THE MATERIAL IN EACH LAYER SHALL BE FIRMLY COMPACTED BY RAMMING OR TAMPING WITH TOOLS APPROVED BY THE CITY IN SUCH A MANNER AS NOT TO DISTURB OR INJURE THE PIPE. THE BACKFILLING ABOVE THIS HEIGHT SHALL BE DONE AS NOTED BELOW.
3. GRANULAR BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED AS SPECIFIED IN NOTE 2, ABOVE. THE USE OF JETTING SHALL NOT BE ALLOWED UNLESS AUTHORIZED IN WRITING BY THE CITY. IT SHALL BE THE DESIGN ENGINEER OR CONTRACTOR'S RESPONSIBILITY TO PROVIDE APPROPRIATE JUSTIFICATION AND DOCUMENTATION (SOIL INVESTIGATION REPORTS, ETC.) TO THE CITY WITH THE REQUEST FOR APPROVAL OF JETTING.
4. BACKFILL MATERIAL CONSISTING OF SUITABLE EXCAVATED MATERIAL SHALL BE PLACED IN LIFTS NOT EXCEEDING TWELVE (12) INCHES THICK (LOOSE MEASURE) AND EACH LAYER SHALL BE COMPACTED BY RAMMING OR TAMPING TO ACHIEVE THE REQUIRED COMPACTION. JETTING OF THIS MATERIAL MAY BE PERMITTED WHEN AUTHORIZED IN WRITING BY THE CITY. IT SHALL BE THE DESIGN ENGINEER OR THE CONTRACTOR'S RESPONSIBILITY TO SUBMIT APPROPRIATE JUSTIFICATION AND DOCUMENTATION (SOIL INVESTIGATION REPORTS, ETC.) TO THE CITY WITH THE REQUEST FOR APPROVAL OF JETTING.

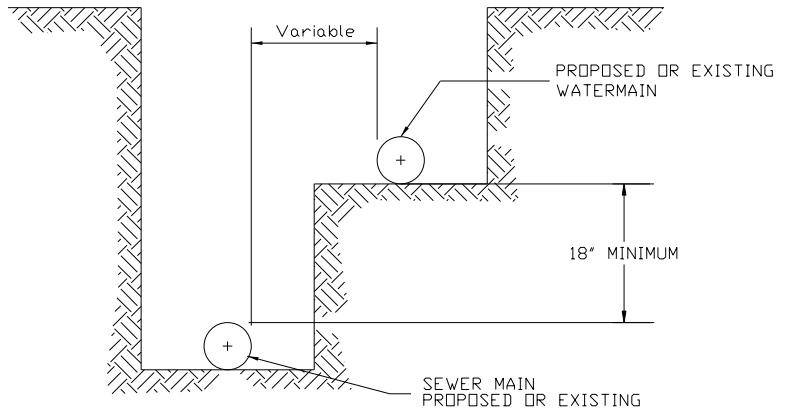
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**WATER MAIN  
TRENCH SECTION**

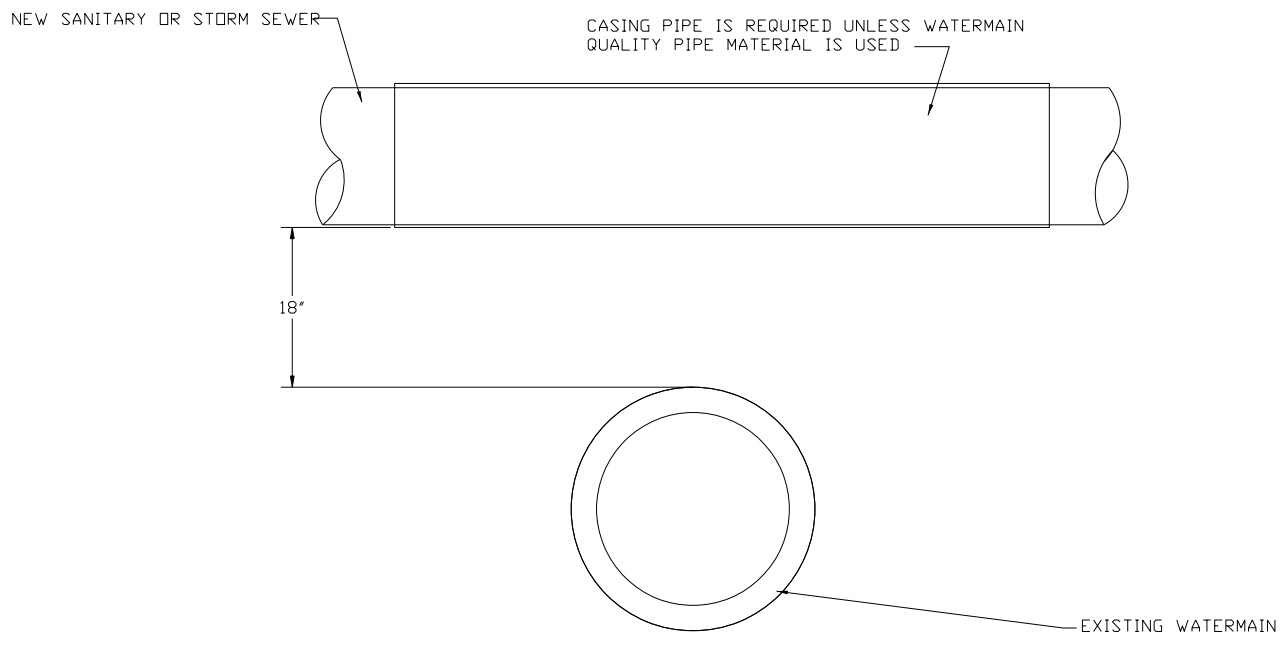
CITY OF WOOD DALE
WATER 7 Packet Page #329



HORIZONTAL SEPARATION



VERTICAL SEPARATION



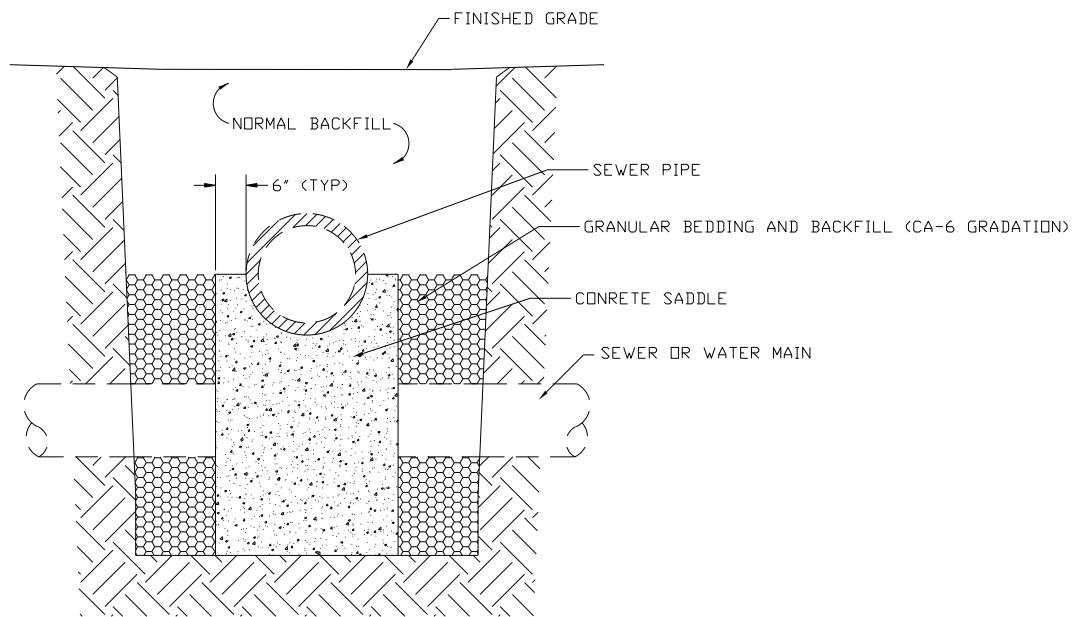
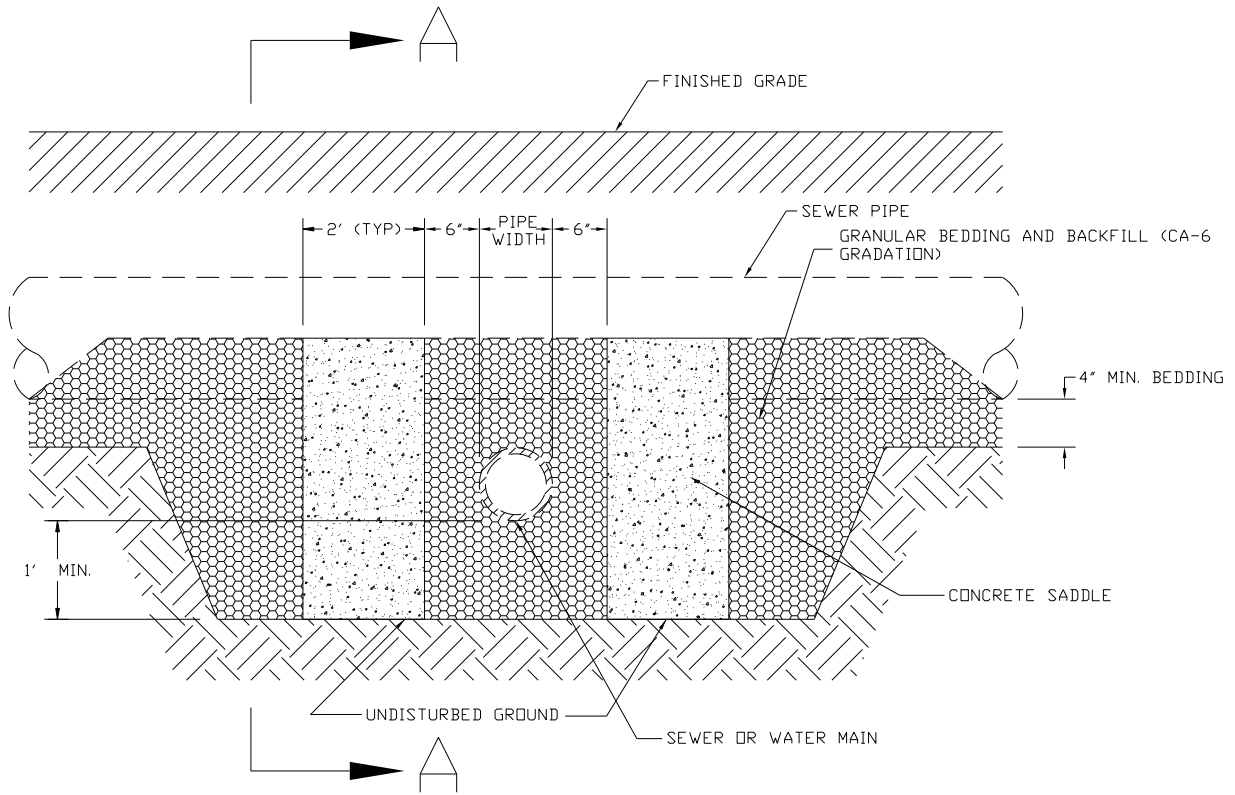
CASING PIPE IS REQUIRED UNLESS WATERMAIN QUALITY PIPE MATERIAL IS USED

GENERAL NOTES:

1. WHEN THE MINIMUM 10 FEET HORIZONTAL SEPARATION CANNOT BE ACHIEVED, AN 18 INCH VERTICAL SEPARATION MAY BE PERMITTED. THE VERTICAL SEPARATION SHALL BE MAINTAINED FOR ALL PORTIONS OF THE WATERMAIN THAT ARE WITHIN 10 HORIZONTAL FEET OF ANY SEWER OR DRAIN.
2. WHEN THE WATERMAIN MUST PASS UNDER A SEWER OR DRAIN, BOTH THE WATERMAIN AND SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT DUCTILE IRON PIPE, PRE-STRESSED CONCRETE PIPE, OR PVC PIPE MEETING WATERMAIN STANDARDS. (SEE STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS).
3. WHEN THE WATERMAIN CROSSES UNDER A SEWER GREATER THAN 24 INCH IN DIAMETER, OR WHEN DIRECTED BY THE ENGINEER, THE SEWER SHALL BE SUPPORTED TO PREVENT SETTLING AND BREAKING OF THE WATER MAIN. REFER TO THE "CONCRETE SADDLE SUPPORT" WATER DETAIL 9.

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WATER AND SEWER SEPARATION

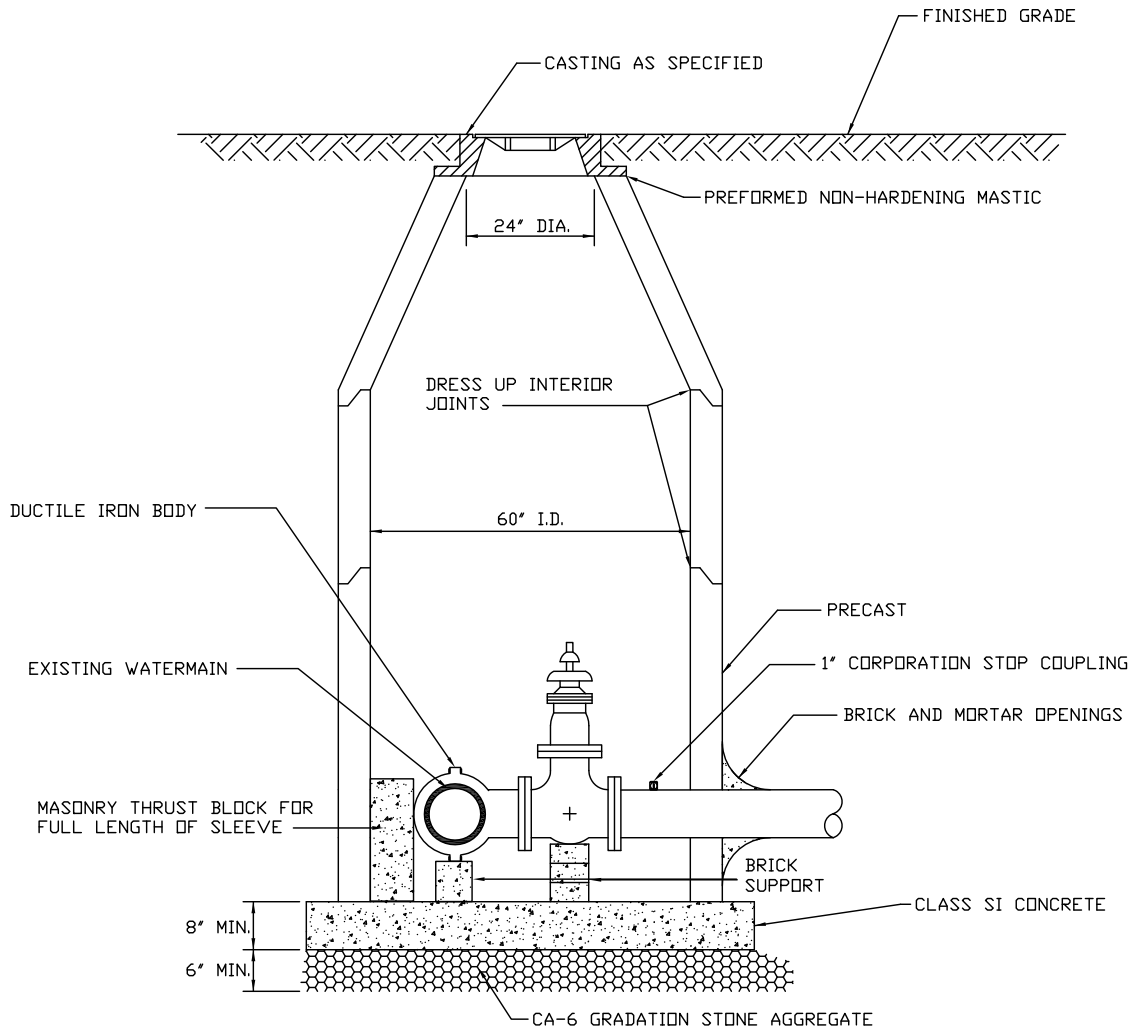


SECTION A-A

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DRAWN BY:	DATE: 4-3-18

CONCRETE SADDLE  
SUPPORT

CITY OF WOOD DALE
WATER 9
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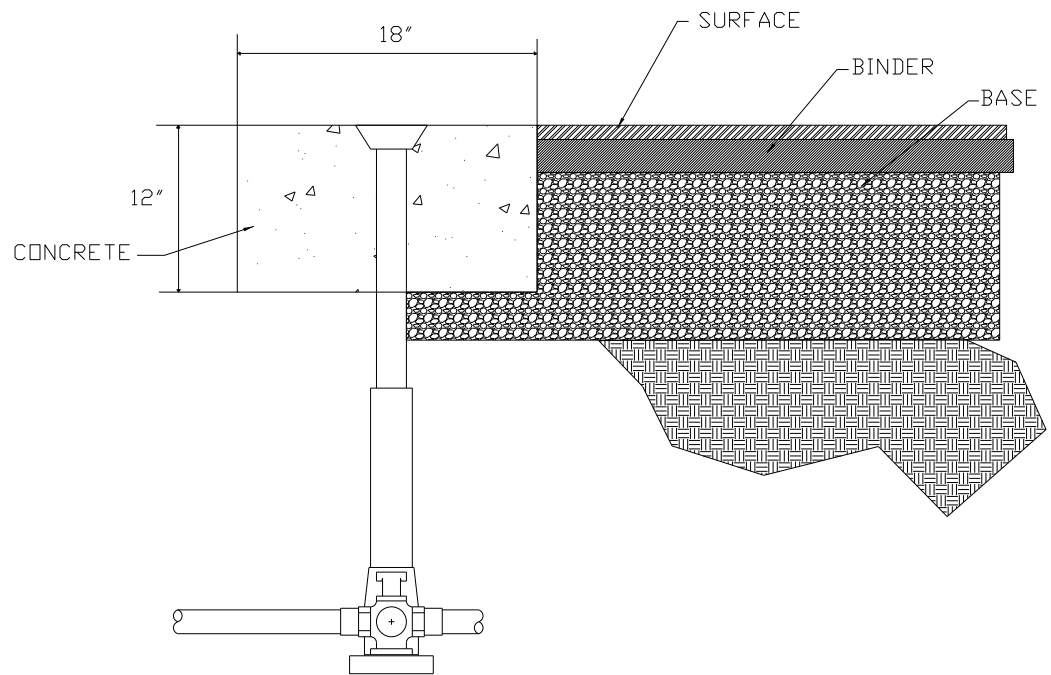


**GENERAL NOTES:**

1. PROVIDE PRECAST REINFORCED CONCRETE BARREL AND RISER SECTION. CONCRETE BLOCK CONSTRUCTION IS NOT PERMITTED.
2. PROVIDE TRENCH BACKFILL, CA-6 GRADATION, AROUND MANHOLE TO SUBGRADE ELEVATION IN PAVED AREAS.
3. APPLY A CONTINUOUS LAYER OF NON-HARDENING PREFORMED BITUMINOUS MASTIC MATERIAL (RUB-R-NEK OR E Z STICK) TO EACH JOINT TO PREVENT INFLOW.
4. WHEN THE FRAME DOES NOT MEET PROPOSED ELEVATION, A MINIMUM OF TWO TAPERED RUBBERIZED ADJUSTING RINGS SHALL BE USED FOR FINAL ADJUSTMENT. ONE CONCRETE RING NOT LESS THAN TWO INCHES THICK MAY ALSO BE USED. A MAXIMUM OF THREE ADJUSTING RINGS MAY BE USED TO A MAXIMUM HEIGHT OF 12 INCHES. THE RING(S) AND FRAME SHALL BE SET ON A BED OF PREFORMED NON-HARDENING MASTIC (RUB-R-NEK OR APPROVED EQUAL).
5. PRECAST ADJUSTING RINGS SHALL BE REINFORCED WITH NO. 3 GAUGE WIRE OR EQUIVALENT.
6. MORTAR SHALL NOT BE USED TO DRESS UP ADJUSTING RINGS AND/OR FRAME.
7. PLASTIC POLYMER STEPS SHALL NOT BE INSTALLED, UNLESS APPROVED BY THE DIRECTOR OF PUBLIC WORKS OR THEIR DESIGNEE.
8. DRESS UP INTERIOR JOINTS WITH HYDRAULIC CEMENT.
9. VALVE MUST ALIGN WITH CENTER OF VAULT OPENING.
10. CONES MUST BE CONCENTRIC WITH VALVES 12" AND SMALLER.
11. BUTTERFLY VALVES REQUIRE ECCENTRIC CONES.

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DRAWN BY:	DATE: 4-3-18

**TYPICAL PRESSURE  
CONNECTION IN VAULT**



GENERAL NOTES:

1. CONCRETE COLLAR AROUND B-BOX WHEN B-BOX FALLS IN ASPHALT PAVEMENT.

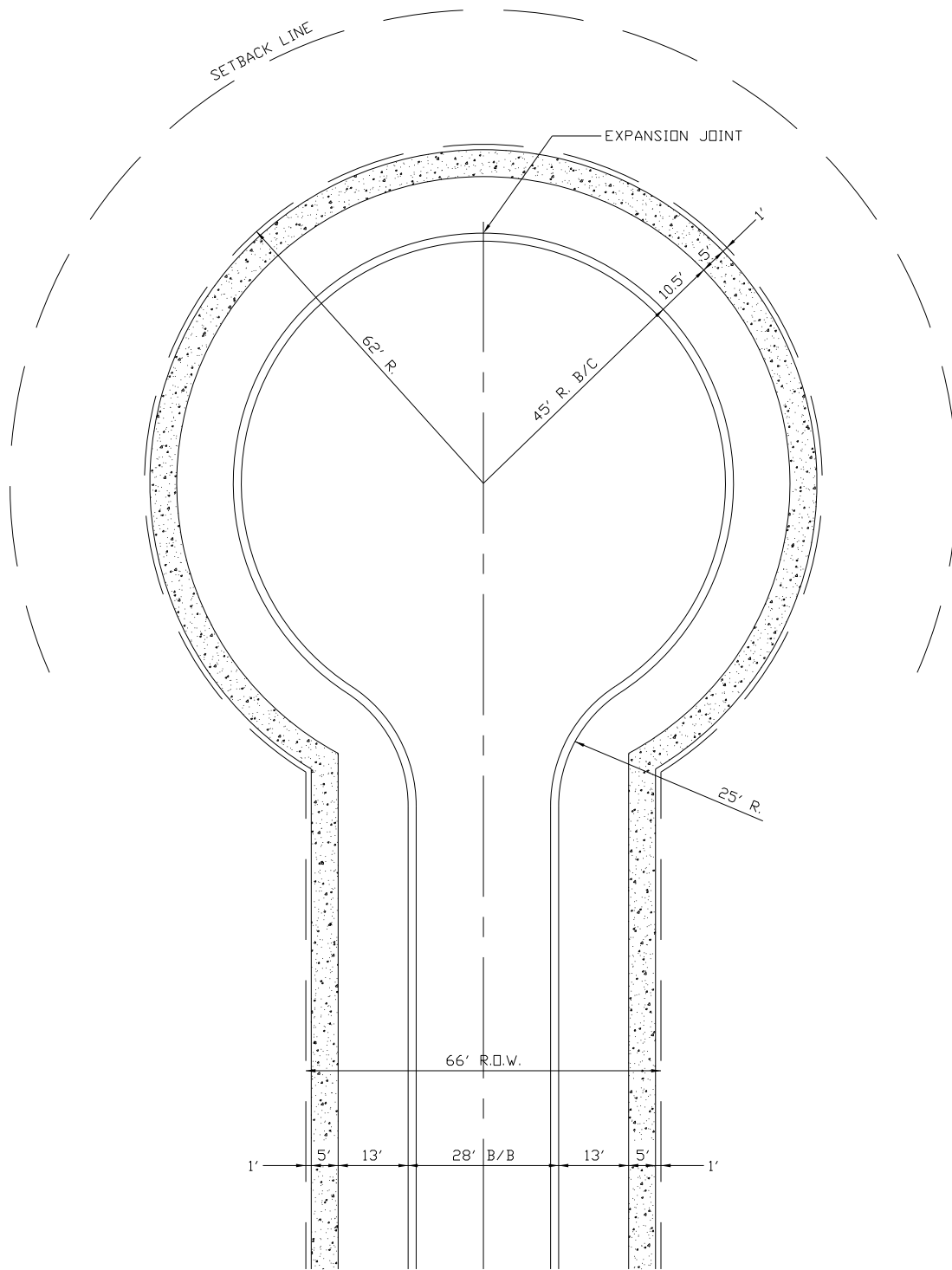
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B-BOX ENCASEMENT

CITY OF WOOD DALE
WATER 11 Packet Page #333

# SECTION 500- ROADWAY DETAILS

CONCENTRIC CUL-DE-SAC  
SIDEWALK  
HANDICAP SIDEWALK RAMP 1  
HANDICAP SIDEWALK RAMP 2  
SIDEWALK CONSTRUCTION  
TYPICAL PAVEMENT CROSS SECTION 1  
TYPICAL PAVEMENT CROSS SECTION 2  
RESIDENTIAL DRIVEWAY APRON  
COMMERCIAL DRIVEWAY APRON  
CURB AND GUTTER  
RIGID PAVEMENT UTILITY TRENCH  
FLEXIBLE PAVEMENT UTILITY TRENCH  
PAVEMENT BUTT JOINT  
TYPICAL PARKING LOT PAVEMENT



GENERAL NOTES:

1. THE CONCENTRIC CUL-DE-SAC ILLUSTRATION, AS PRESENTED ABOVE, IS PROVIDED AS A VISUAL AID. THE DIMENSIONS AS ILLUSTRATED ARE NOT ALL OF THE DIMENSION REQUIREMENTS FOR THE CITY OF WOOD DALE. DESIGNS SHALL BE REVIEWED ON A SITE SPECIFIC BASIS FOR COMPLIANCE WITH MUNICIPAL CODES. DIMENSION VARIATIONS MAY BE WARRANTED. ALL CONCENTRIC CUL-DE-SAC DESIGNS SUBMITTED FOR REVIEW AND APPROVAL, SHALL PROVIDE INFORMATION IN A FORM AS PRESENTED ABOVE.

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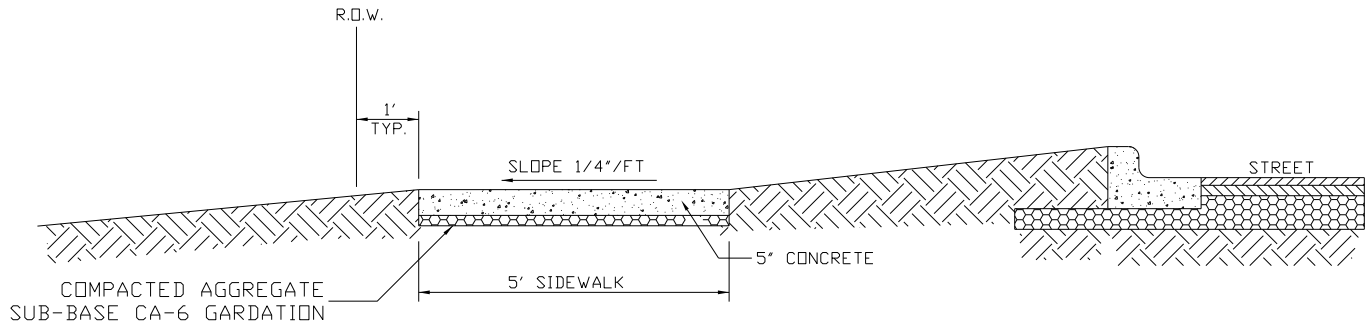
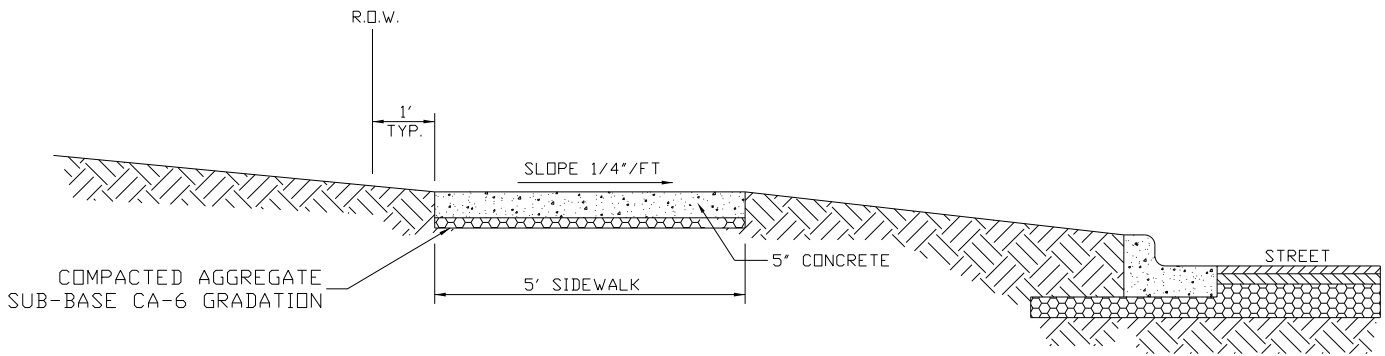
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CONCENTRIC  
CUL-DE-SAC

CITY OF WOOD DALE

PAVEMENT 1  
Packet Page #335



GENERAL NOTES:

1. CONCRETE SHALL BE CLASS SI.
2. MINIMUM SIDEWALK THICKNESS SHALL BE FIVE INCHES (5").
3. SIDEWALK THICKNESS ACROSS DRIVEWAYS SHALL BE SIX INCHES (6") MINIMUM FOR RESIDENTIAL DRIVEWAYS, AND EIGHT INCHES (8") MINIMUM FOR NON-RESIDENTIAL DRIVEWAYS.
4. MAXIMUM LONGITUDINAL SLOPE SHALL NOT EXCEED 6% (16:1).
5. MINIMUM TRANSVERSE SLOPE SHALL BE 1/4"/FT. (2%) TYPICAL.  
MAXIMUM TRANSVERSE SLOPE SHALL BE NO GREATER THAN 1/2"/FT. (4%) TYPICAL.
6. A TWO INCH (2") MINIMUM AGGREGATE SUB-BASE (CA-6 GRADATION) SHALL BE PROVIDED (FOUR INCHES (4" MINIMUM) THROUGH NON-RESIDENTIAL DRIVEWAYS).
7. AGGREGATE SUB-BASE COURSE SHALL BE MECHANICALLY COMPACTED.
8. ALL SIDEWALK SHALL BE PROMPTLY BACKFILLED AND PROTECTED FROM DAMAGE.

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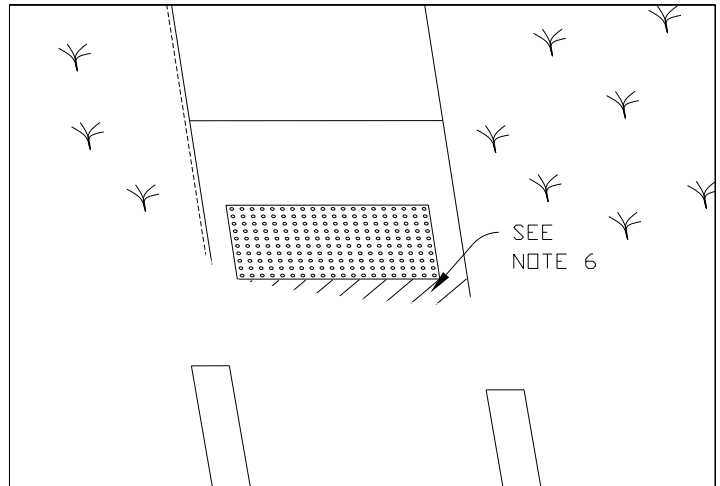
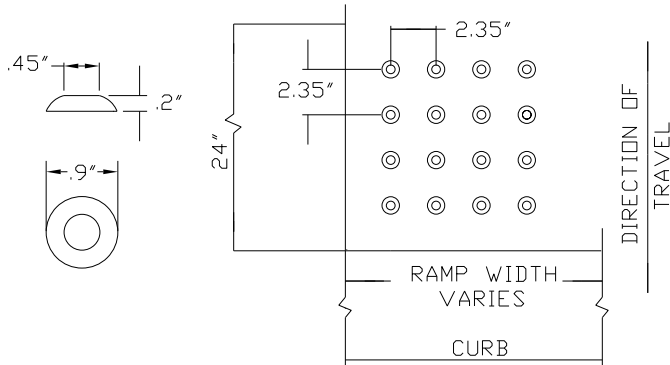
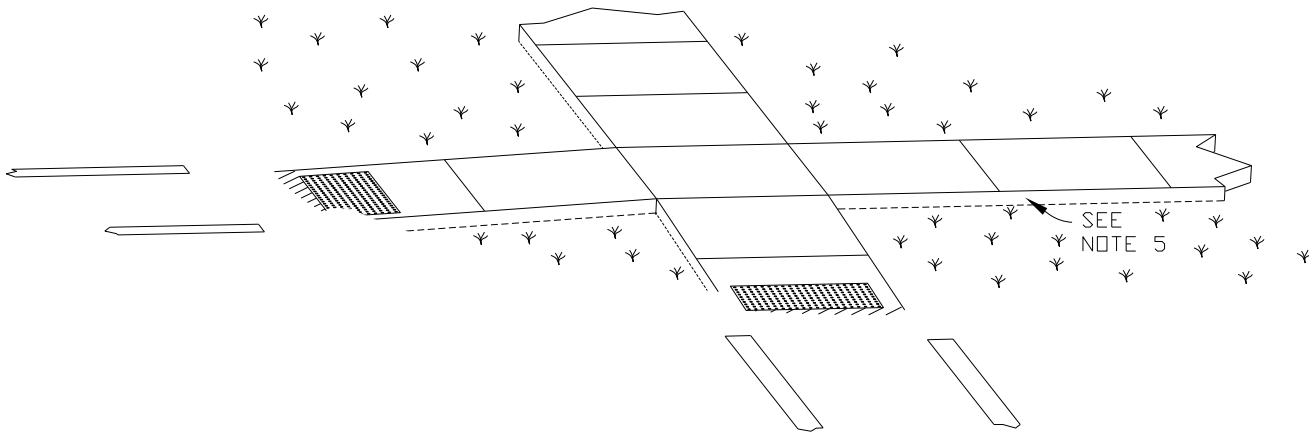
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SIDEWALK

CITY OF WOOD DALE

PAVEMENT 2  
Packet Page #336





TRUNCATED DOME DETAIL  
FOR PUBLIC RIGHT-OF-WAY

GENERAL NOTES:

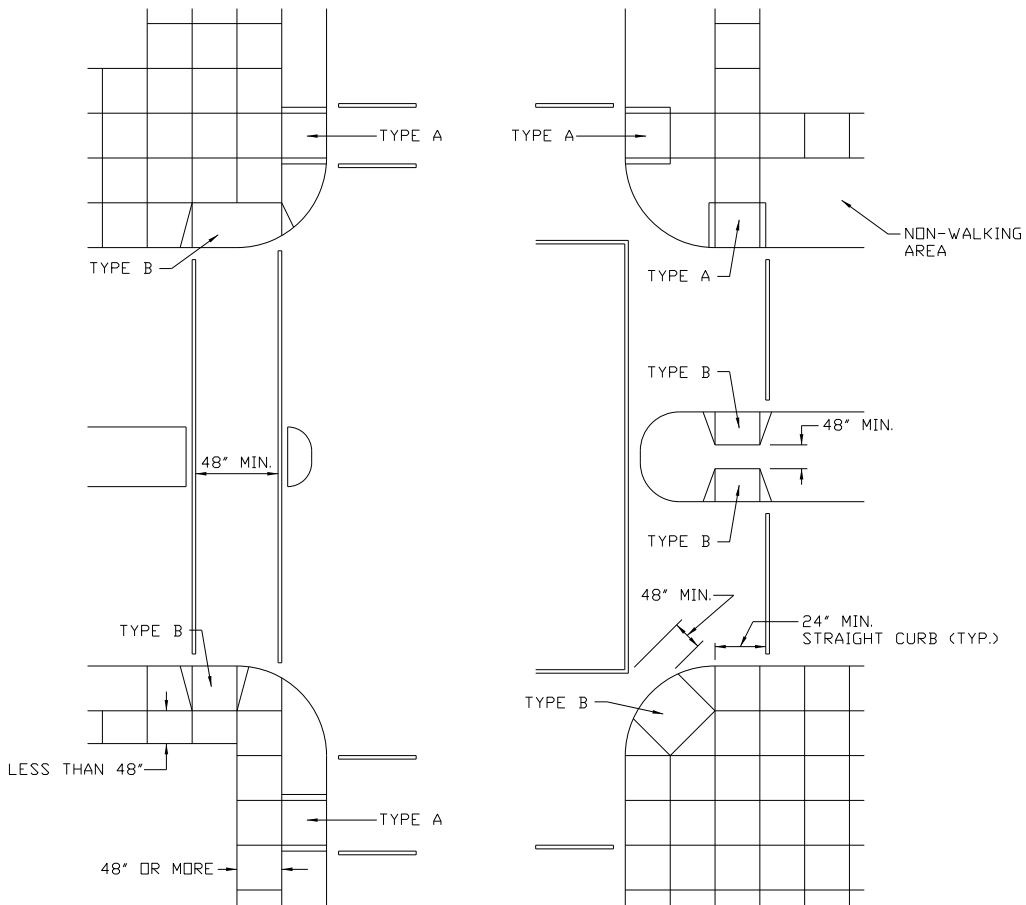
1. RAMPS SHALL BE LOCATED AS SHOWN ON THE PLANS IN ALIGNMENT WITH NORMAL SIDEWALK AND/OR CROSSWALK AND SHALL HAVE SUFFICIENT CURB LENGTH AT CORNER RADIUS TO PREVENT VEHICULAR ENCRDACHMENT.
2. CURB RAMPS AT MARKED CROSSINGS SHALL BE WHOLLY CONTAINED WITHIN THE MARKINGS, EXCLUDING ANY FLARED SIDES.
3. THE MAXIMUM SLOPE OF THE SIDE FLARE FOR TYPE B RAMPS SHALL BE 1:10. HOWEVER, IF THE WIDTH OF THE LANDING AREA BETWEEN THE TOP OF THE RAMP AND AN OBSTRUCTION IS LESS THAN 48 INCHES, THE MAXIMUM SLOPE SHALL BE 1:12.
4. RAMPS SHALL BE CONSTRUCTED OF P.C. CONCRETE IN ACCORDANCE WITH THE IDOT "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION". DETECTABLE WARNING PANELS SHALL BE A 2 FOOT BY 4 FOOT SECTION CONSISTING OF TRUNCATED DOMES ALIGNED IN A SQUARE (PARALLEL ALIGNMENT) PATTERN. DETECTABLE WARNING PANELS SHALL BE SET BACK A MINIMUM OF 6 INCHES FROM THE FRONT OF CURB. THE TYPE OF DETECTABLE WARNING PANELS SHALL BE E-Z SET CERAMIC COMPOSITE DETECTIABLE WARNING PANELS, ARMOR-TILE, CAPE FEAR SYSTEM 3, OR APPROVED EQUAL.
5. THICKNESS OF RAMPS WILL BE THE SAME AS THE ADJACENT SIDEWALK WITH A MINIMUM OF 5 INCHES. THICKNESS OF SIDEWALKS THROUGH RESIDENTIAL DRIVEWAYS SHALL BE A MINIMUM OF 6 INCHES. COMMERCIAL DRIVEWAYS SHALL BE A MINIMUM OF 8 INCHES.
6. UNLESS CURB RAMP IS ALIGNED PERPENDICULAR TO THE STREET RADIUS, AN AREA OF SPECIAL SHAPING MUST BE PROVIDED AT THE BOTTOM OF THE RAMP. THIS AREA SHALL ALLOW THE GRADE BREAK AT THE BOTTOM OF THE RAMP TO BE PERPENDICULAR TO THE RAMP AND SHALL PROVIDE A SMOOTH TRANSITION TO THE GUTTER LINE FOR WHEELCHAIR ACCESS. NO CURB LIP ALLOWED IN THIS AREA. MAXIMUM CROSS SLOPE SHALL BE 2%.

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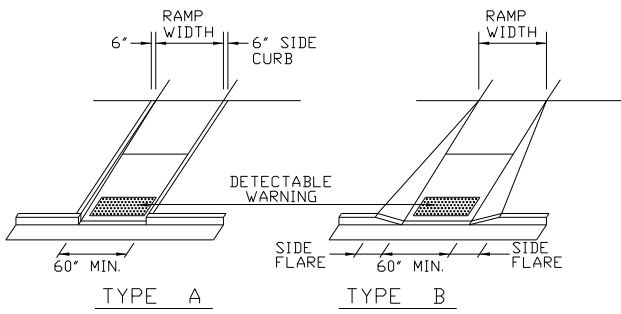
REV.:

HANDICAPPED SIDEWALK  
RAMP

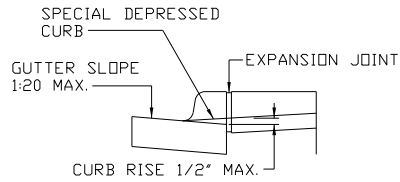
CITY OF WOOD DALE



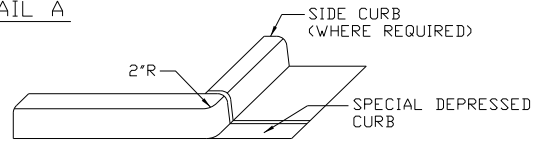
RECOMMENDED LOCATION OF RAMP



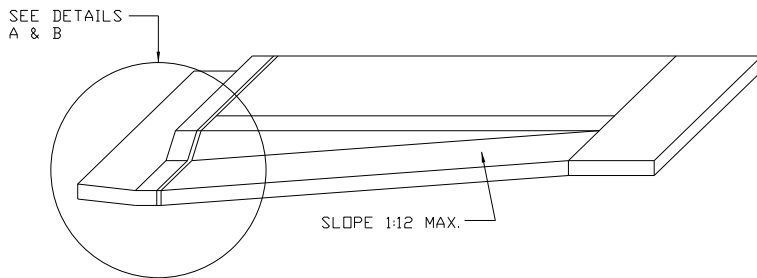
DETAILS OF RAMP



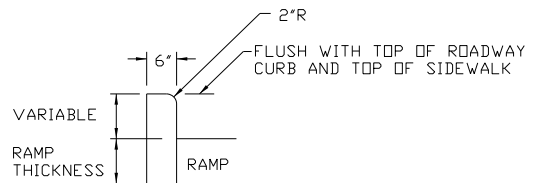
DETAIL A



DETAIL B



RAMP PROFILE



DETAIL OF SIDE CURB

(Side curb may be constructed monolithically with ramp.)

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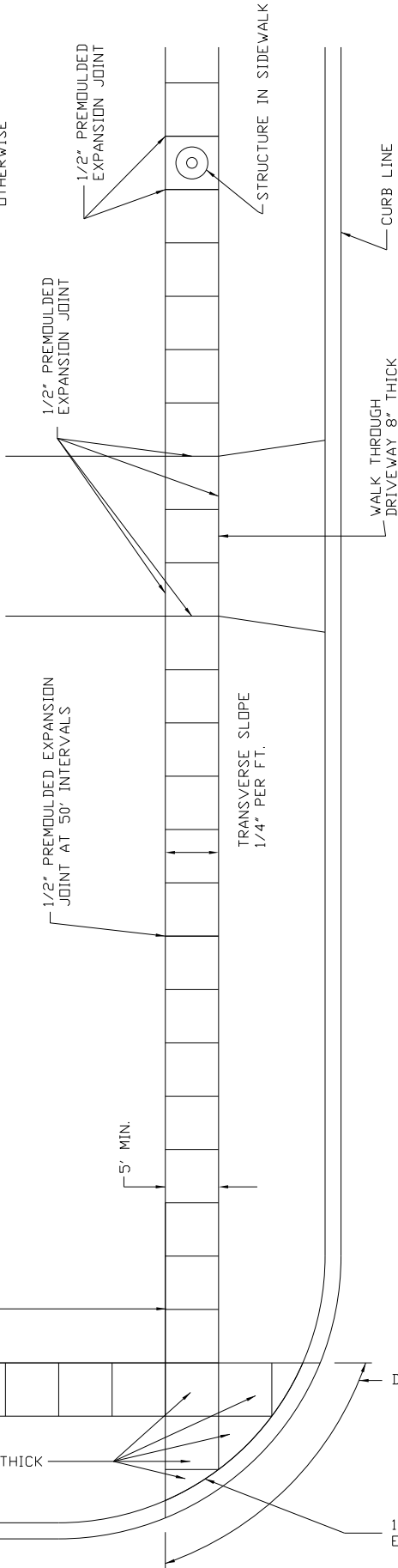
HANDICAPPED SIDEWALK  
RAMP (CONTINUED)

CITY OF WOOD DALE
PAVEMENT 3B

# BUSINESS DISTRICT

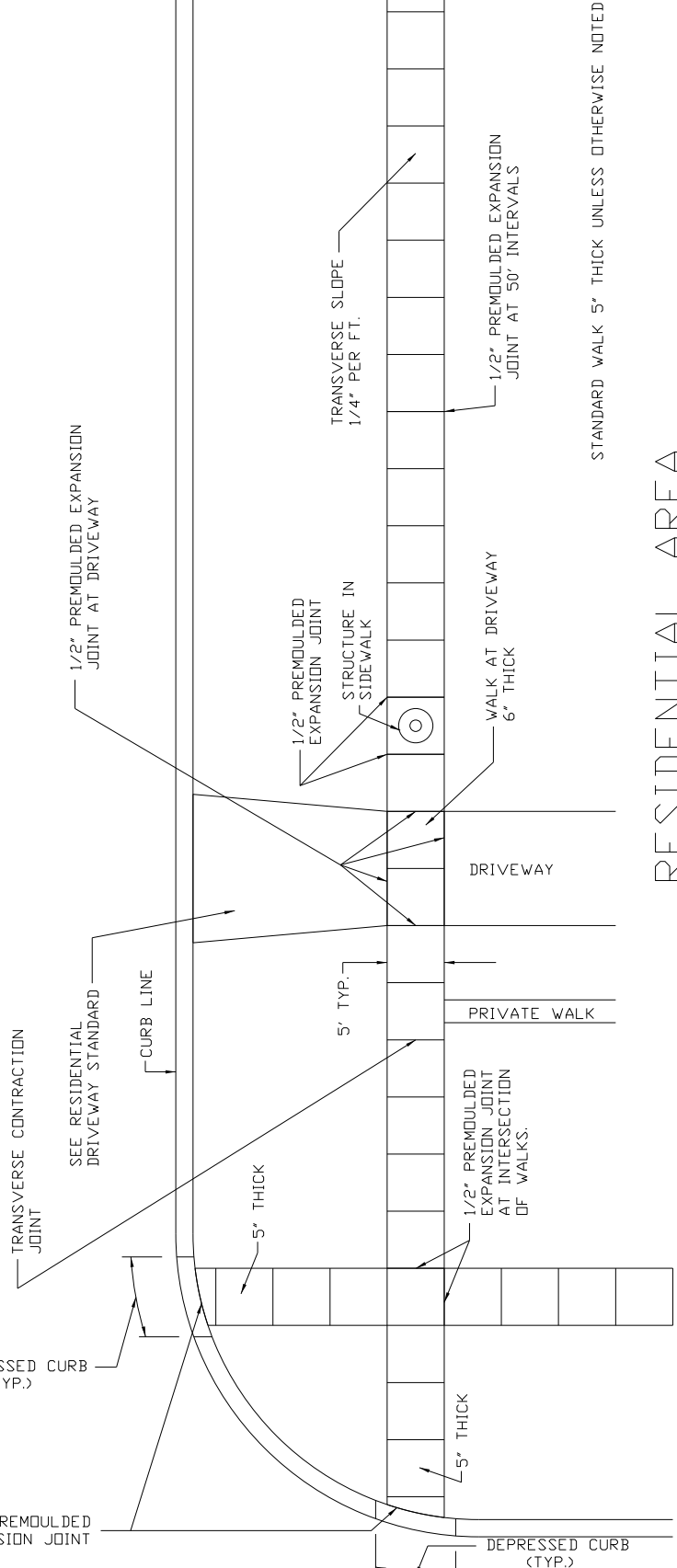
WHEN SIDEWALK IS PLACE UP TO FACE OF BUILDING, PROVIDE 1/2" PREMOULDED EXPANSION JOINT MATERIAL BETWEEN WALK AND BUILDING

STANDARD WALK  
5" THICK  
UNLESS NOTED  
OTHERWISE



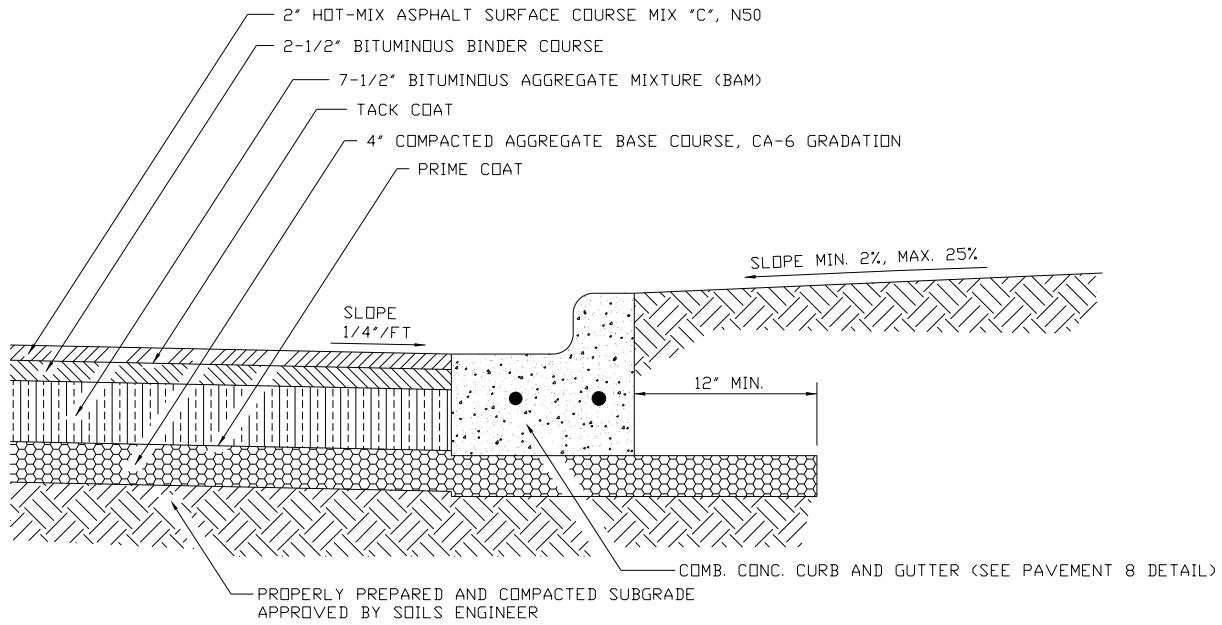
# SIDEWALK CONSTRUCTION

# RESIDENTIAL AREA

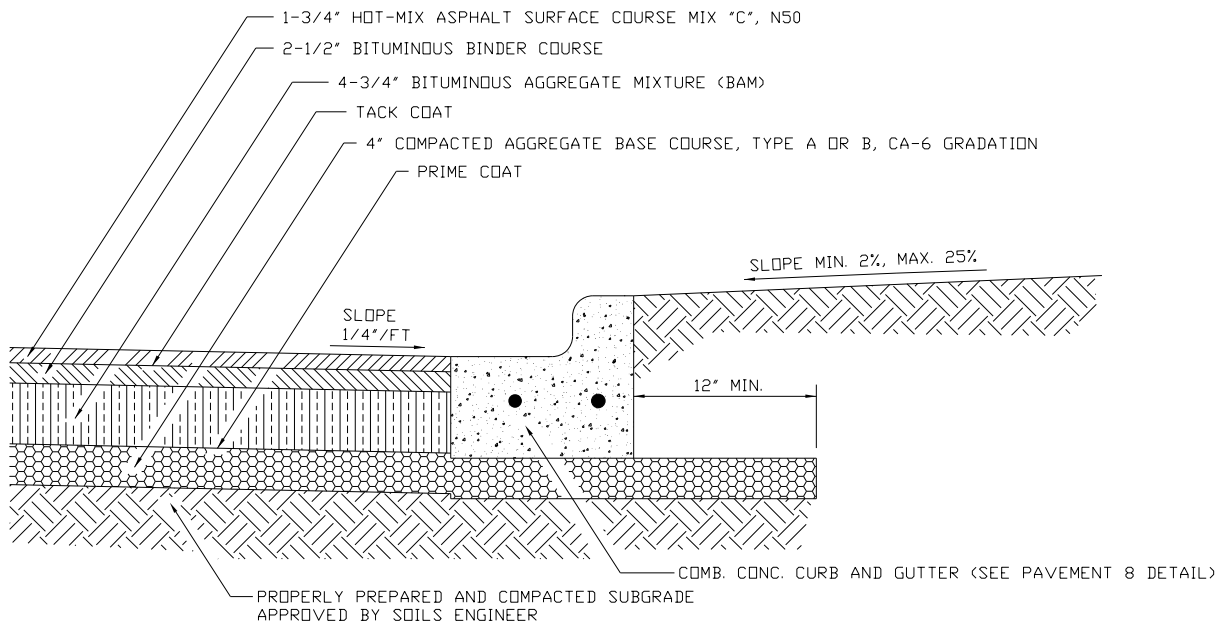


STANDARD WALK 5" THICK UNLESS OTHERWISE NOTED

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## FLEXIBLE PAVEMENT- NON-RESIDENTIAL



## FLEXIBLE PAVEMENT - RESIDENTIAL

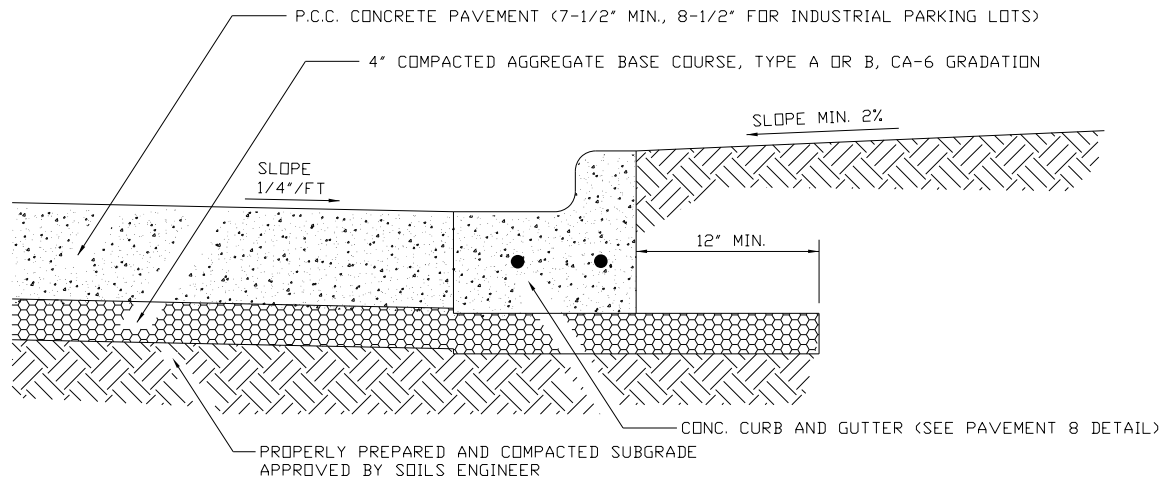
### GENERAL NOTES:

1. DIMENSIONS SHOWN ARE MINIMUM VALUES. SOIL ANALYSIS AND TRAFFIC COUNTS SHALL BE USED FOR DETERMINING REQUIRED SECTION.
2. INTEGRAL CURB AND GUTTER SHALL NOT BE PERMITTED WITH RIGID OR COMPOSITE PAVEMENTS.
3. THE FOLLOWING MATERIALS ARE ACCEPTABLE AS BASE COURSE ALTERNATIVES: BITUMINOUS AGGREGATE MIXTURE (BAM) AND P.C. CONCRETE.
4. PROVIDE TACK COAT BETWEEN BAM AND BINDER COURSE IF NOT INSTALLED ON THE SAME DAY.

REV.:	
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## TYPICAL PAVEMENT CROSS-SECTION

CITY OF WOOD DALE
PAVEMENT 5



RIGID PAVEMENT

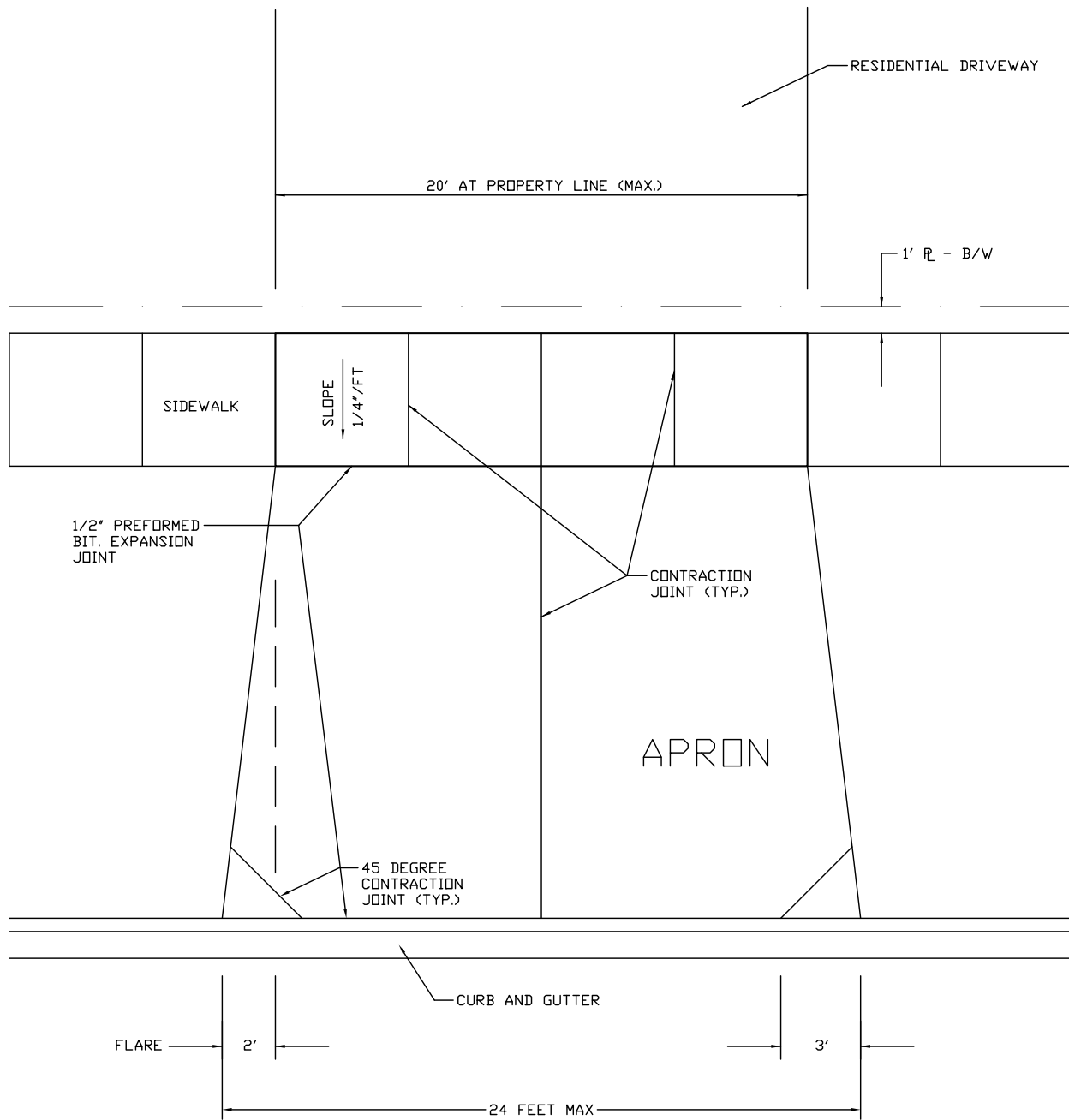
GENERAL NOTES:

1. DIMENSIONS SHOWN ARE MINIMUM VALUES. SOIL ANALYSIS AND TRAFFIC COUNTS SHALL BE USED FOR DETERMINING REQUIRED SECTION.
2. INTEGRAL CURB AND GUTTER SHALL NOT BE PERMITTED WITH RIGID OR COMPOSITE PAVEMENTS.
3. THE FOLLOWING MATERIALS ARE ACCEPTABLE AS BASE COURSE ALTERNATIVES: BITUMINOUS AGGREGATE MIXTURE (BAM) AND P.C. CONCRETE.
4. PROVIDE TACK COAT BETWEEN BAM AND BINDER COURSE IF NOT INSTALLED ON THE SAME DAY.

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DRAWN BY:	DATE: 4-3-18

TYPICAL PAVEMENT  
CROSS-SECTION

CITY OF WOOD DALE
PAVEMENT 5A

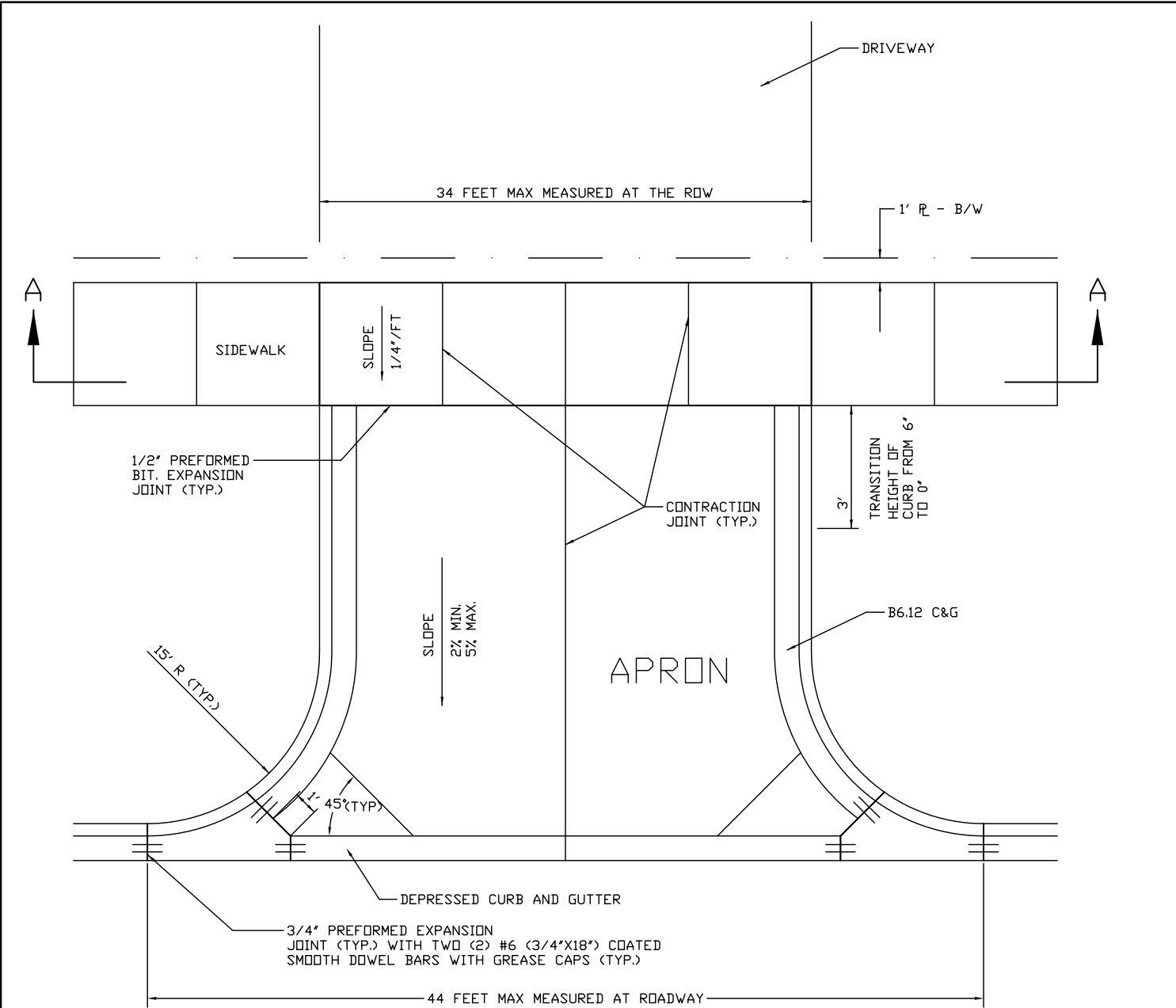


**GENERAL NOTES:**

1. APRONS SHALL NOT EXCEED 20 FEET IN WIDTH MEASURED AT THE RIGHT-OF-WAY LINE NOR 24 FEET AT THE CURBLINE.
2. ALL AGGREGATE SUB-BASE SHALL BE MECHANICALLY COMPACTED.
3. MINIMUM THICKNESS FOR DRIVEWAY/APRONS: 6" P.C. CONCRETE ON 2" COMPACTED AGGREGATE SUB-BASE (CA-6 GRADATION), OR 3" BITUMINOUS SURFACE ON 6" COMPACTED AGGREGATE SUB-BASE (CA-6 GRADATION).
4. SIDEWALK SHALL EXTEND THROUGH THE DRIVEWAY.
5. DRIVEWAYS SHALL HAVE A MINIMUM SLOPE OF 2% AND A MAXIMUM SLOPE OF 8%.
6. DRIVEWAY APRONS SHALL HAVE A MINIMUM SLOPE OF 2% AND A MAXIMUM SLOPE OF 5%.
7. PATCHES ARE NOT ALLOWED IN NEW APRONS.

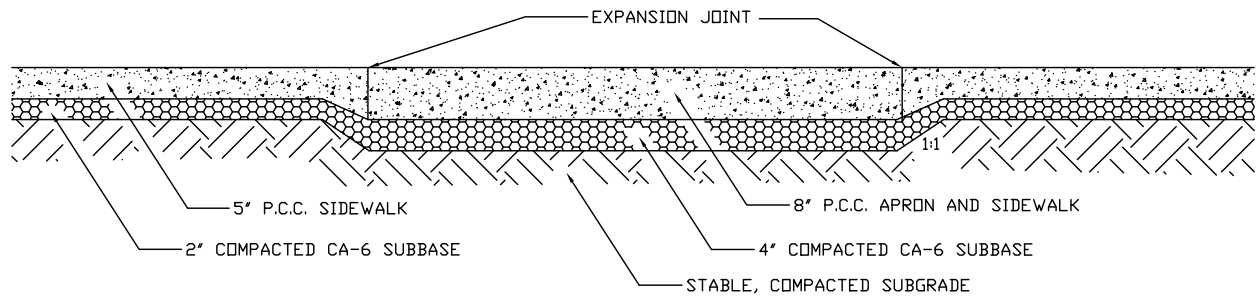
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DRAWN BY:	DATE: 4-3-18

**RESIDENTIAL  
DRIVEWAY/APRON**



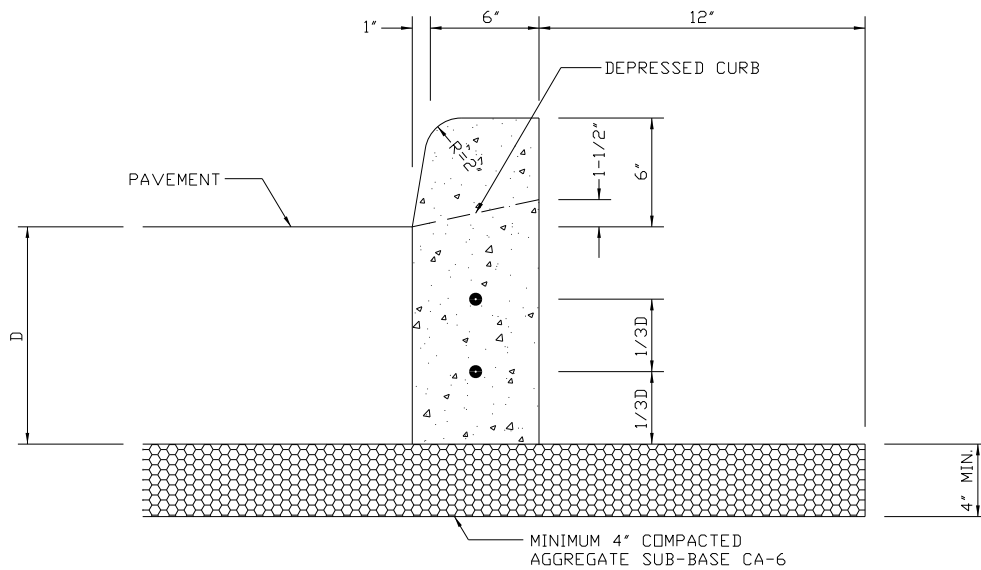
**PLAN**

NOTE:  
ALL AGGREGATE SUBGRADE SHALL  
BE MECHANICALLY COMPACTED.

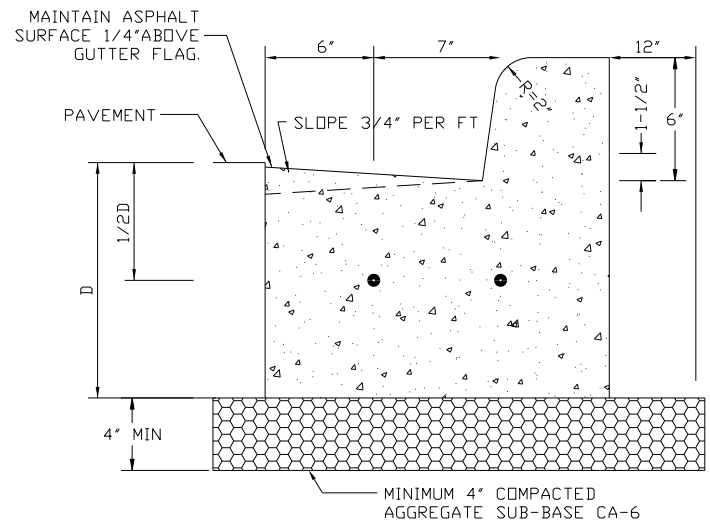
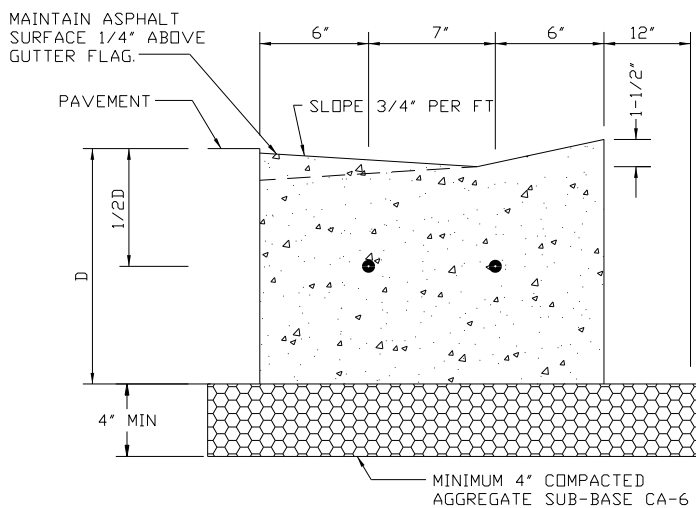


**SECTION A-A**

REV.:	REV.:	<b>COMMERCIAL/INDUSTRIAL/ MULTI-FAMILY DRIVEWAY/APRON</b>	CITY OF WOOD DALE
DRAWN BY:	DATE: 4-3-18		PAVEMENT 7 Packet Page #343



6" CONCRETE CURB TYPE B



DEPRESSED COMBINATION CURB & GUTTER

COMBINATION CURB & GUTTER

GENERAL NOTES:

1. 3/4" PREFORMED BITUMINOUS EXPANSION JOINT MATERIAL WITH TWO #6 COATED SMOOTH DOWEL BARS (3/4" DIAMETER X 18") WITH GREASED CAPS SHALL BE PLACED EVERY 45 FEET. THEY SHALL ALSO BE PLACED AT 10' EITHER SIDE OF DRAINAGE STRUCTURES, P.C.'S, RADIUS POINTS, AND BACK OF CUL-DE-SACS. WHEN EXPANSION JOINTS ARE CONSTRUCTED ADJACENT TO EXISTING CURB AND GUTTER, THE EXISTING CURB SHALL BE DRILLED, AND TWO # 6 COATED SMOOTH DOWEL BARS (3/4" DIAMETER X 18") SHALL BE GROUTED IN PLACE. GREASE CAPS SHALL BE PLACED ON THE SIDE OF THE NEW CURB AND GUTTER AND SHALL HAVE A PINCHED STOP THAT WILL PROVIDE A MINIMUM 1" EXPANSION.
2. TOOLED CONTROL JOINTS OR SAWCUTS SHALL BE MADE EVERY 15 FEET.
3. SAWCUTS SHALL BE MADE WITHIN TWENTY-FOUR (24) HOURS AND SEALED WITH A CITY APPROVED JOINT SEALANT. JOINTS SHALL BE CLEAN AND DRY PRIOR TO APPLICATION OF SEALANT.
4. TWO (2) #4 REBARS SHALL BE PLACED CONTINUEDOUS THROUGHOUT THE CURB AND GUTTER.

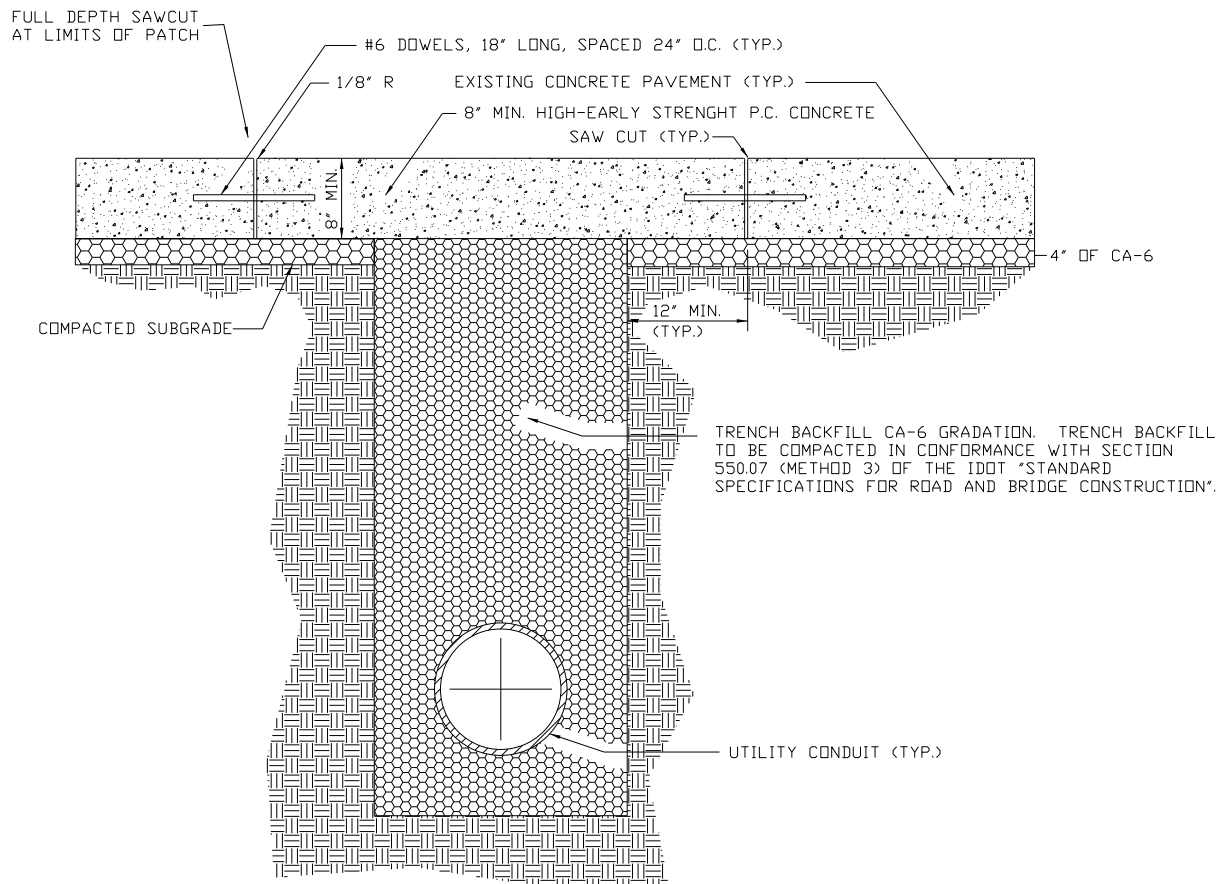
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CURB AND GUTTER

CITY OF WOOD DALE

PAVEMENT 8  
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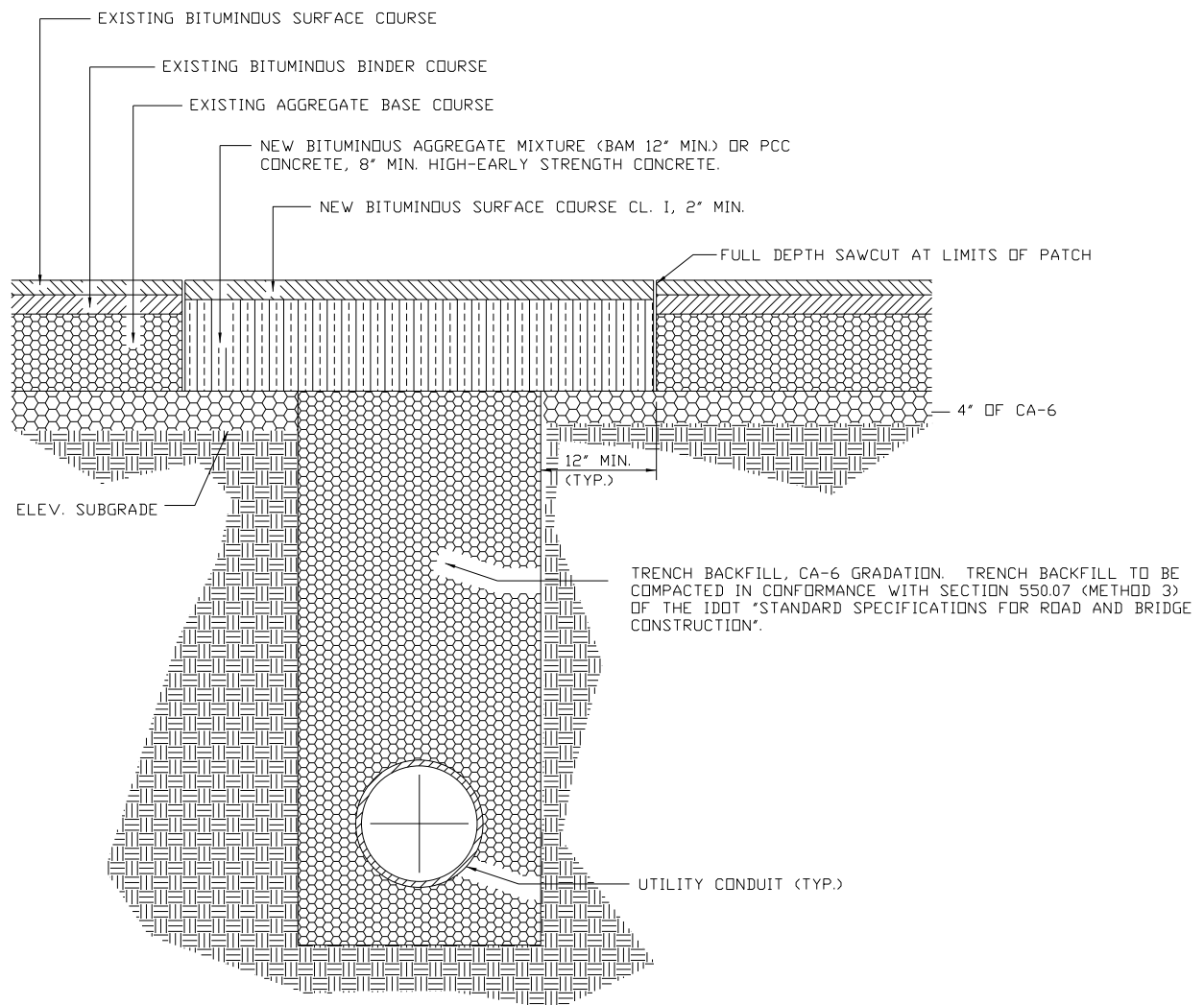
GENERAL NOTES:

1. PAVEMENT SHALL NOT BE OPENED WITHOUT FIRST RECEIVING A PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS.
2. THE TRENCH SHALL BE BACKFILLED WITH AGGREGATE (CA-6 GRADATION) AND COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY. TRENCH SPOIL OR EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.
3. PRIOR TO THE PLACING OF P.C. CONCRETE, THE EXPOSED EDGES OF ALL EXISTING PAVEMENT SHALL BE SAWCUT FULL DEPTH TO PROVIDE A SMOOTH, CLEAN VERTICAL EDGE, FREE OF LOOSE MATERIAL.
4. EXCAVATIONS SHALL BE PROTECTED BY BARRICADES WITH FLASHING LIGHTS, AT LOCATIONS WHERE ADJUSTMENTS ARE LOCATED IN TRAVEL LANES, A ONE-INCH (1") STEEL PLATE SHALL BE PLACED AND MAINTAINED BY THE CONTRACTOR UNTIL THE SURFACE RESTORATION IS COMPLETE. THE PLATE SHALL BE PROTECTED FROM SLIDING AND TRANSITIONED WITH BITUMINOUS RAMPS AS REQUIRED. BARRICADES AND STEEL PLATES SHALL BE PRESENT AT THE WORK SITE PRIOR TO THE ROAD OPENING.
5. MINIMUM WIDTH OF A CONCRETE PATCH SHALL BE FULL CONCRETE PANELS.

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RIGID PAVEMENT  
UTILITY TRENCH

CITY OF WOOD DALE
PAVEMENT 10 Packet Page #345



GENERAL NOTES:

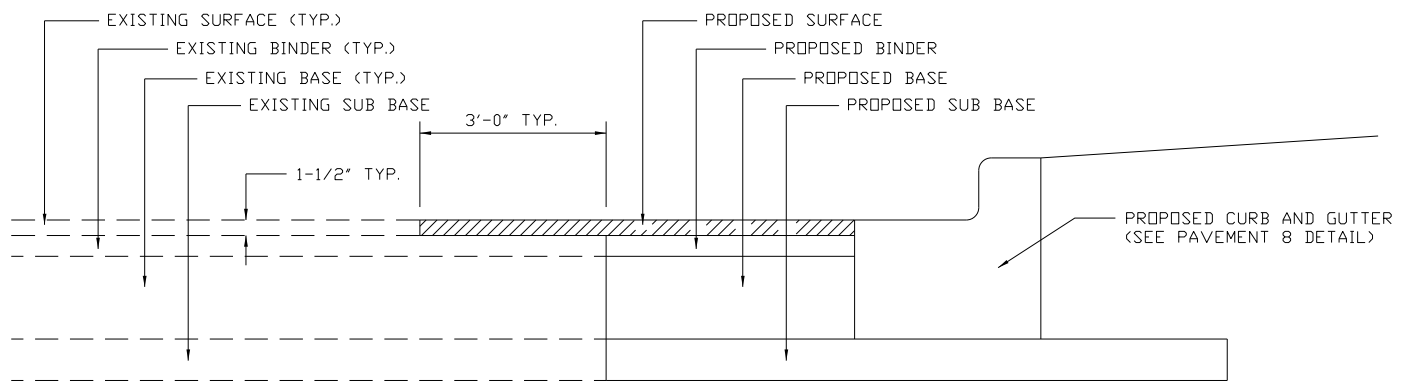
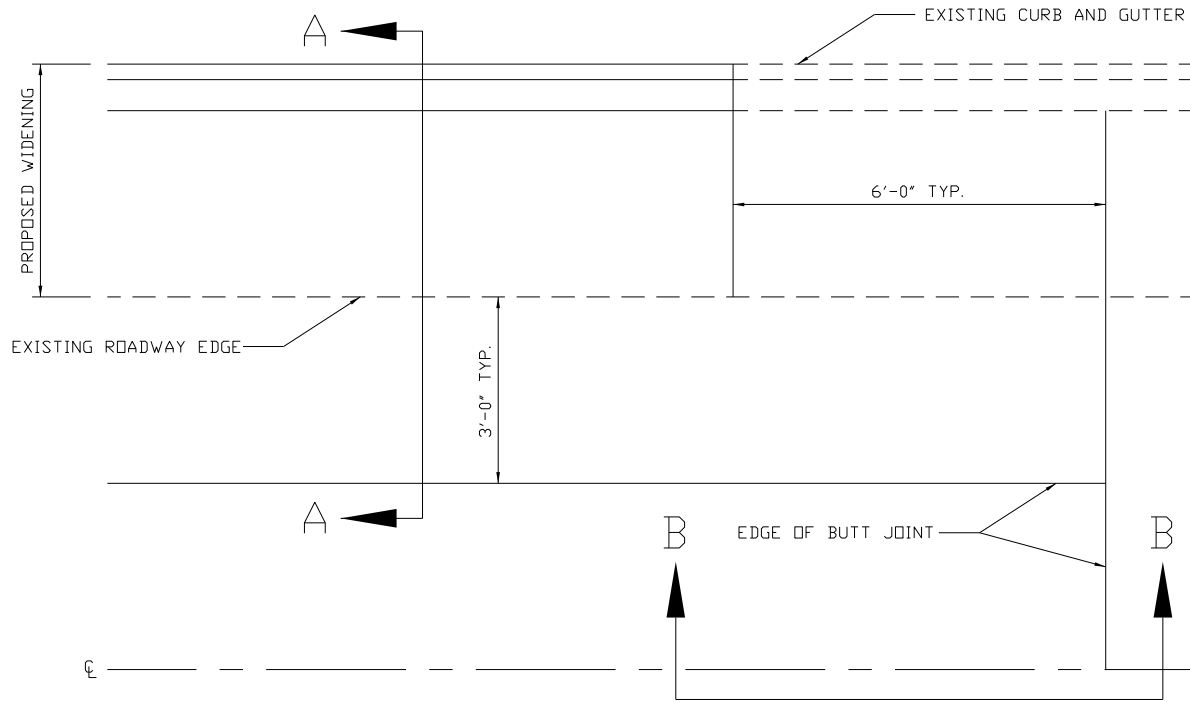
1. PAVEMENT SHALL NOT BE OPENED WITHOUT FIRST RECEIVING A PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS.
2. THE TRENCH SHALL BE BACKFILLED WITH AGGREGATE (CA-6 GRADATION) AND COMPACTED TO 95% OF THE STANDARD PROCTOR DENSITY. TRENCH SPOIL OR EXCAVATED MATERIAL SHALL BE DISPOSED OF BY THE CONTRACTOR AT HIS EXPENSE.
3. PRIOR TO THE PLACING OF P.C. CONCRETE, THE EXPOSED EDGES OF ALL EXISTING PAVEMENT SHALL BE SAWCUT FULL DEPTH TO PROVIDE A SMOOTH, CLEAN VERTICAL EDGE, FREE OF LOOSE MATERIAL.
4. EXCAVATIONS SHALL BE PROTECTED BY BARRICADES WITH FLASHING LIGHTS, AT LOCATIONS WHERE ADJUSTMENTS ARE LOCATED IN TRAVEL LANES, A ONE-INCH (1") STEEL PLATE SHALL BE PLACED AND MAINTAINED BY THE CONTRACTOR UNTIL THE SURFACE RESTORATION IS COMPLETE. THE PLATE SHALL BE PROTECTED FROM SLIDING AND TRANSITIONED WITH BITUMINOUS RAMPS AS REQUIRED. BARRICADES AND STEEL PLATES SHALL BE PRESENT AT THE WORK SITE PRIOR TO THE ROAD OPENING.
5. MINIMUM WIDTH OF A PATCH SHALL BE 4.0 FEET. ALL PATCHES SHALL FULL-DEPTH IN A RECTANGULAR SHAPE AND SHALL EXTEND ACROSS FULL LANES.

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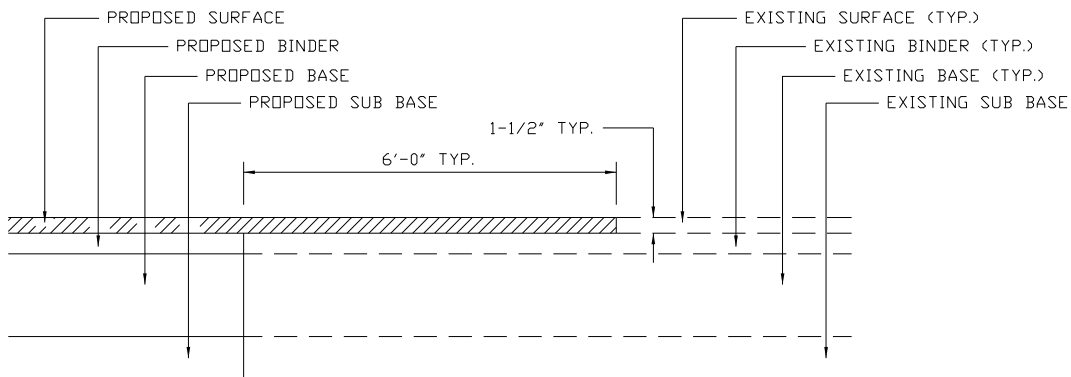
FLEXIBLE PAVEMENT  
UTILITY TRENCH

CITY OF WOOD DALE

PAVEMENT 11  
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SECTION A-A



SECTION B-B

GENERAL NOTES:

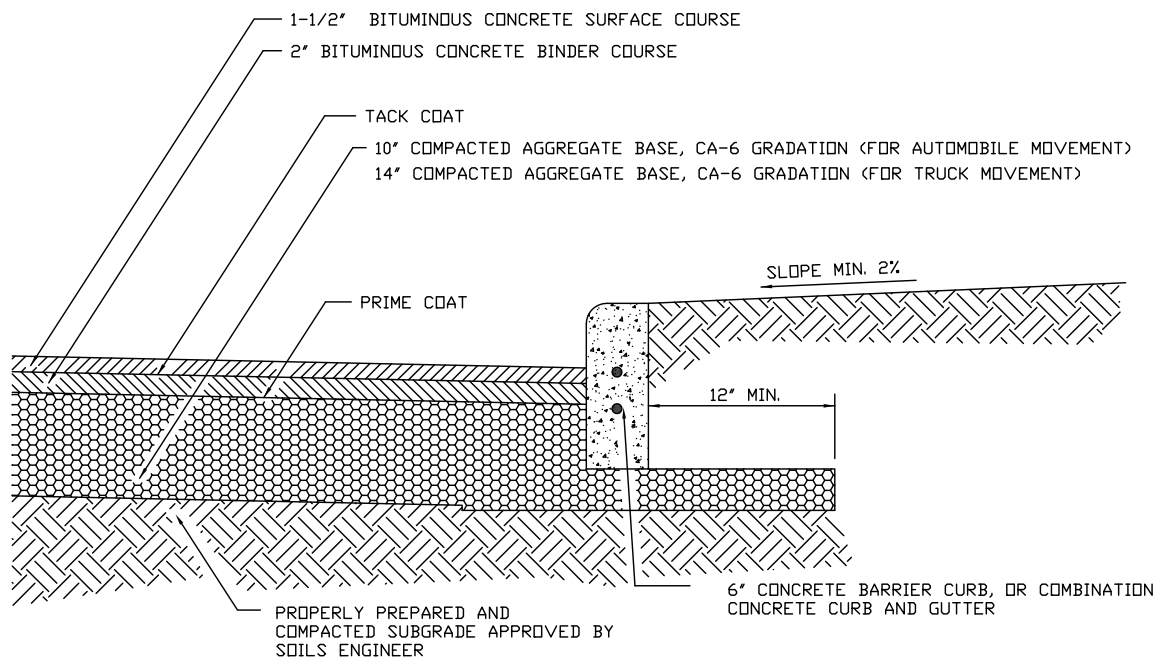
1. FOR WIDENING LESS THAN 8 INCHES AND/OR WHERE REQUIRED COMPACTION IS DIFFICULT TO OBTAIN, CONCRETE BASE SHALL BE USED.

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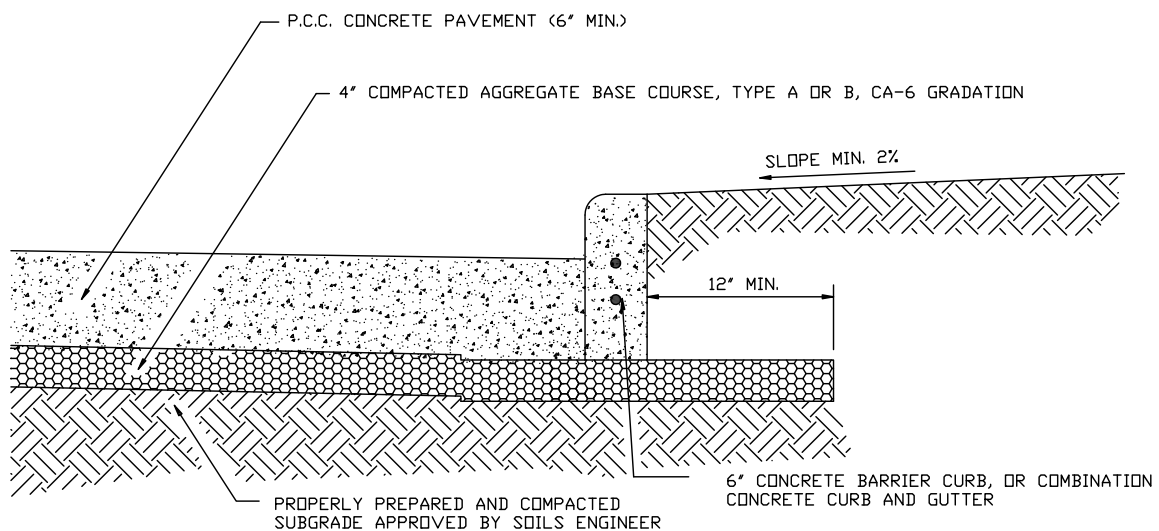
PAVEMENT  
BUTT JOINT

CITY OF WOOD DALE

PAVEMENT 12  
Packet Page #347



## FLEXIBLE PAVEMENT



## RIGID PAVEMENT

### GENERAL NOTES:

1. DIMENSIONS SHOWN ARE MINIMUM VALUES. SOIL ANALYSIS AND TRAFFIC COUNTS SHALL BE USED FOR DETERMINING REQUIRED PAVEMENT SECTION.
2. INTEGRAL CURB AND GUTTER SHALL NOT BE PERMITTED WITH RIGID OR COMPOSITE PAVEMENTS.
3. THE FOLLOWING MATERIALS ARE ACCEPTABLE AS BASE COURSE ALTERNATIVES: BITUMINOUS AGGREGATE MIXTURE (BAM) AND P.C. CONCRETE.
4. THE USE OF PERMEABLE AND NON-PERMEABLE PAVERS ARE ACCEPTABLE PROVIDED THAT THE INSTALLATION IS IN COMPLIANCE WITH THE MANUFACTURER'S REQUIREMENTS.

REV.:	REV.:
REV.:	REV.:
DRAWN BY:	DATE: 4-3-18

## TYPICAL PARKING LOT PAVEMENT

CITY OF WOOD DALE

PAVEMENT 13  
Packet Page #348

# SECTION 600- LIGHTING & TRAFFIC

## DETAILS

CITY STREET NAME SIGN STANDARD  
DECORATIVE STREET NAME SIGN  
DECORATIVE STOP SIGN  
LIGHTING FOUNDATION  
LIGHTING FOUNDATION SIZING CHART  
CONCRETE POLE FOUNDATION  
TRANSFORMER BASE 9"  
CONTROL CABINET FOUNDATION  
STREET LIGHT CONNECTION TYP 1  
STREET LIGHT CONNECTION TYP 2  
STREET LIGHTING CONTROLLER SCHEMATIC  
CONDUIT UNDER PAVEMENT  
CUT SHEETS OF APPROVED POLES, DECORATIVE POLES, AND FIXTURES

## City Street Name Sign Standard



36"x 8"  
C Series Letters

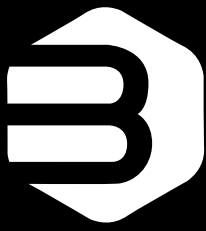


36"x 8"  
C Series Letters



48"x 8"  
C Series Letters

- 1) City street name signs shall be white background with black "C" series lettering and black border. All lettering sizes and spaces shall follow MUTCD Regulations
- 2) All street name signs shall contain the City Logo on the left hand side of the sign; this logo size shall be compliant with MUTCD Regulations.
- 3) Suffix shall be smaller than the street name.
- 4) All reflective sheeting shall be HIP or Diamond Grade. 3M products only unless approved by the Director of Public Works or their designee.
- 5) Blanks shall be .080 thickness
- 6) Minimum Blank size shall be 8" in with width. 12" blanks shall be used where applicable and appropriate per MUTCD as well as high visibility areas as designated by the Director of Public Works.



# BRANDON®

I N D U S T R I E S

1601 Wilmeth Road  
McKinney, Texas 75069  
Phone: 972.542.3000  
Toll Free: 800.247.1274  
brandonindustries.com

## Complete Sign Unit

made from the following parts:

### POLE:

SPS3X12 - 3" x 12' SMOOTH POLE  
EXTRUDED ALUMINUM ALLOY 6005-T5  
WALL THICKNESS .125"



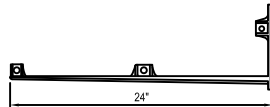
### FINIAL:

FIN-A3 - ACORN FINIAL FOR 3" OD ROUND POLE.  
HEIGHT: 6.75"  
WIDTH: 3.5"  
CAST ALUMINUM ALLOY #356



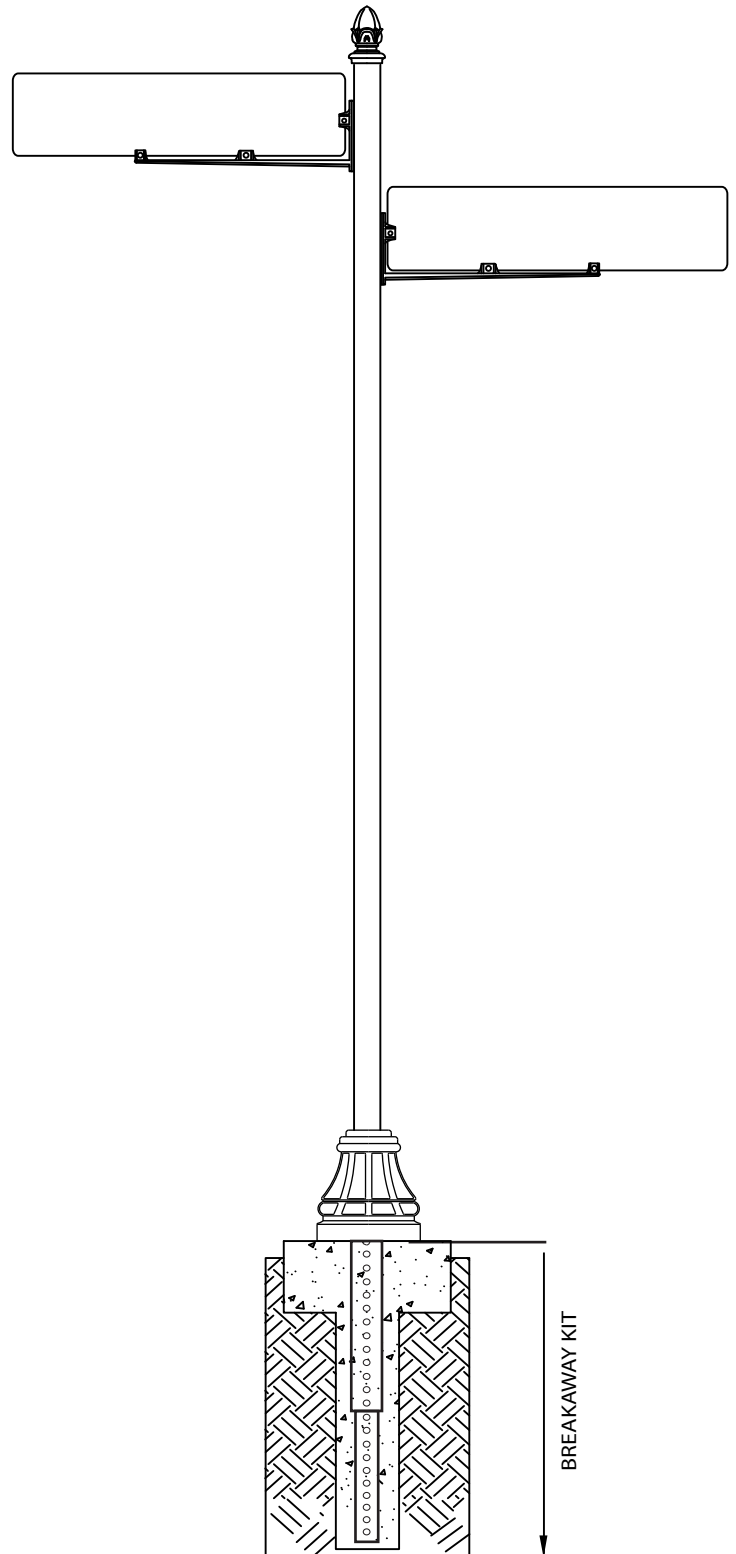
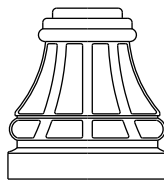
### TRIMS:

2WAYARM24 - CANTILEVER ARM FOR STREET SIGN  
LENGTH: 24"

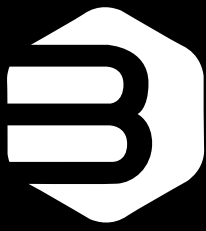


### BASE:

2PCD - TWO-PIECE BASE FOR 3" OD POST  
HEIGHT: 9.75"  
WIDTH: 9"  
CAST ALUMINUM ALLOY #356



NOTES:  
COMPLETE UNIT SHOWN WITH 2' BELOW GRADE BURIAL.  
DRAWING FOR INFORMATION ONLY, NOT INTENDED FOR CONSTRUCTION PURPOSES.



# BRANDON®

I N D U S T R I E S

1601 Wilmeth Road  
McKinney, Texas 75069  
Phone: 972.542.3000  
Toll Free: 800.247.1274  
brandonindustries.com

## Complete Sign Unit

made from the following parts:

### POLE:

SPS3X12 - 3" x 12' SMOOTH POLE  
EXTRUDED ALUMINUM ALLOY 6005-T5  
WALL THICKNESS .125"



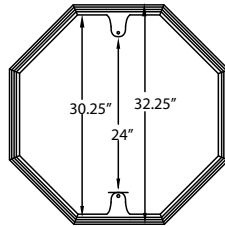
### FINIAL:

FIN-A3- ACORN FINIAL FOR 3" OD ROUND POLE.  
HEIGHT: 6.75"  
WIDTH: 3.5"  
CAST ALUMINUM ALLOY #356



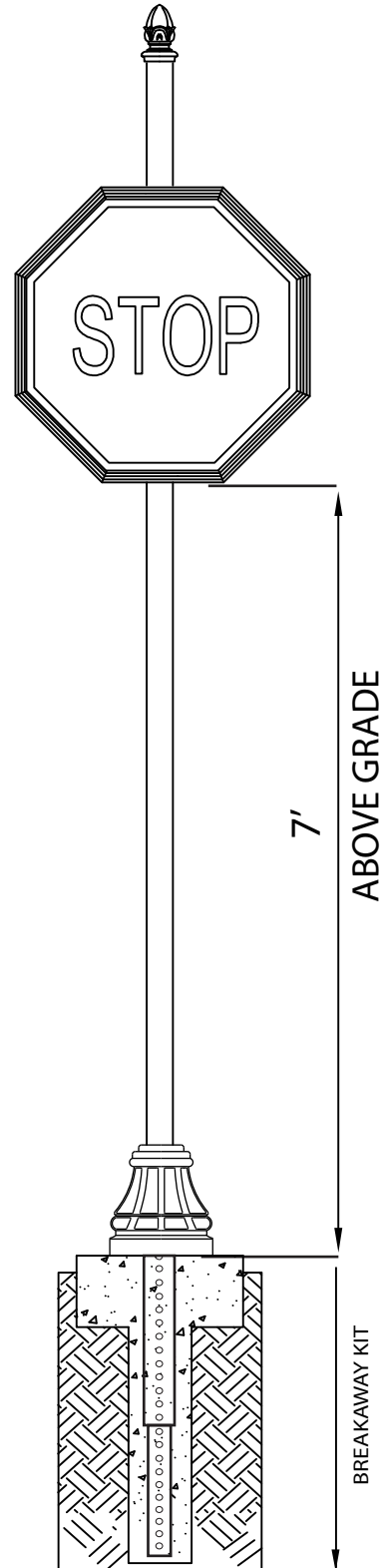
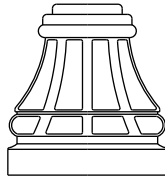
### TRIMS:

TSTOP30N- TRIM FOR 30" STOP SIGN  
CAST ALUMINUM ALLOY #356



### BASE:

2PCD - TWO-PIECE BASE FOR 3" OD POST  
HEIGHT: 9.75"  
WIDTH: 9"  
CAST ALUMINUM ALLOY #356



NOTES:  
COMPLETE UNIT SHOWN WITH 2' BELOW GRADE BURIAL.  
DRAWING FOR INFORMATION ONLY, NOT INTENDED FOR CONSTRUCTION PURPOSES.



4-1" GALVANIZED ANCHOR  
BOLTS 2 3/4" PROJECTION

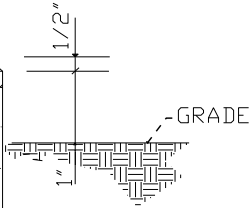
3 SP @ 4"

EXOTHERMIC WELD  
#4 BARE GROUND  
WIRE

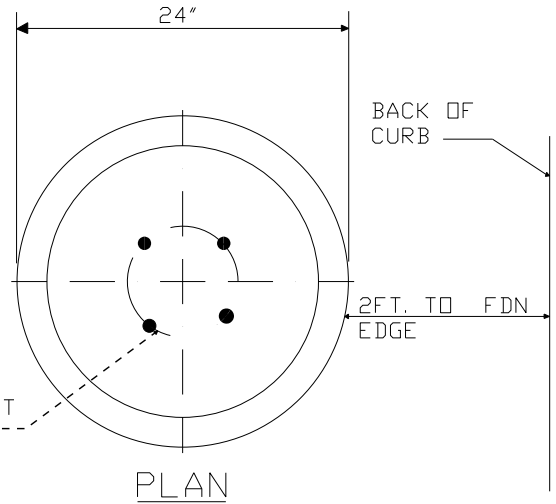
6'-0"  
BALANCE @ 12" SP

3/4" DIA. 10'  
LENGTH GROUND  
ROD

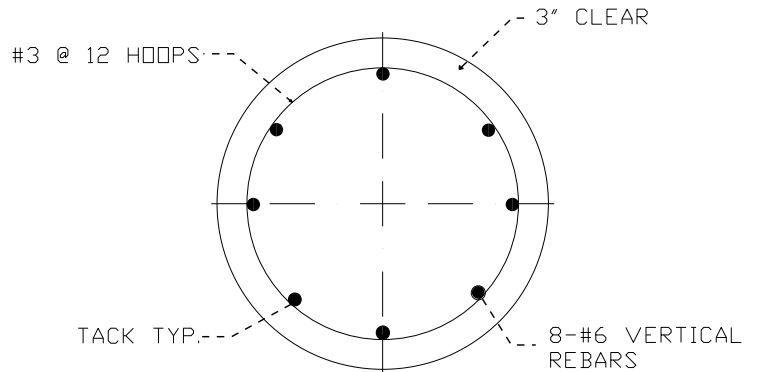
2'-0" 24" DIA.



ELEVATION



PLAN



SECTION A-A

CONCRETE FOUNDATION DETAIL  
N.T.S.

REV.:	REV.:
REV.:	DATE: 4-3-18
DRAWN BY:	

LIGHTING FOUNDATION

CITY OF WOOD DALE
LIGHTING FOUNDATION 2
Packet Page #353

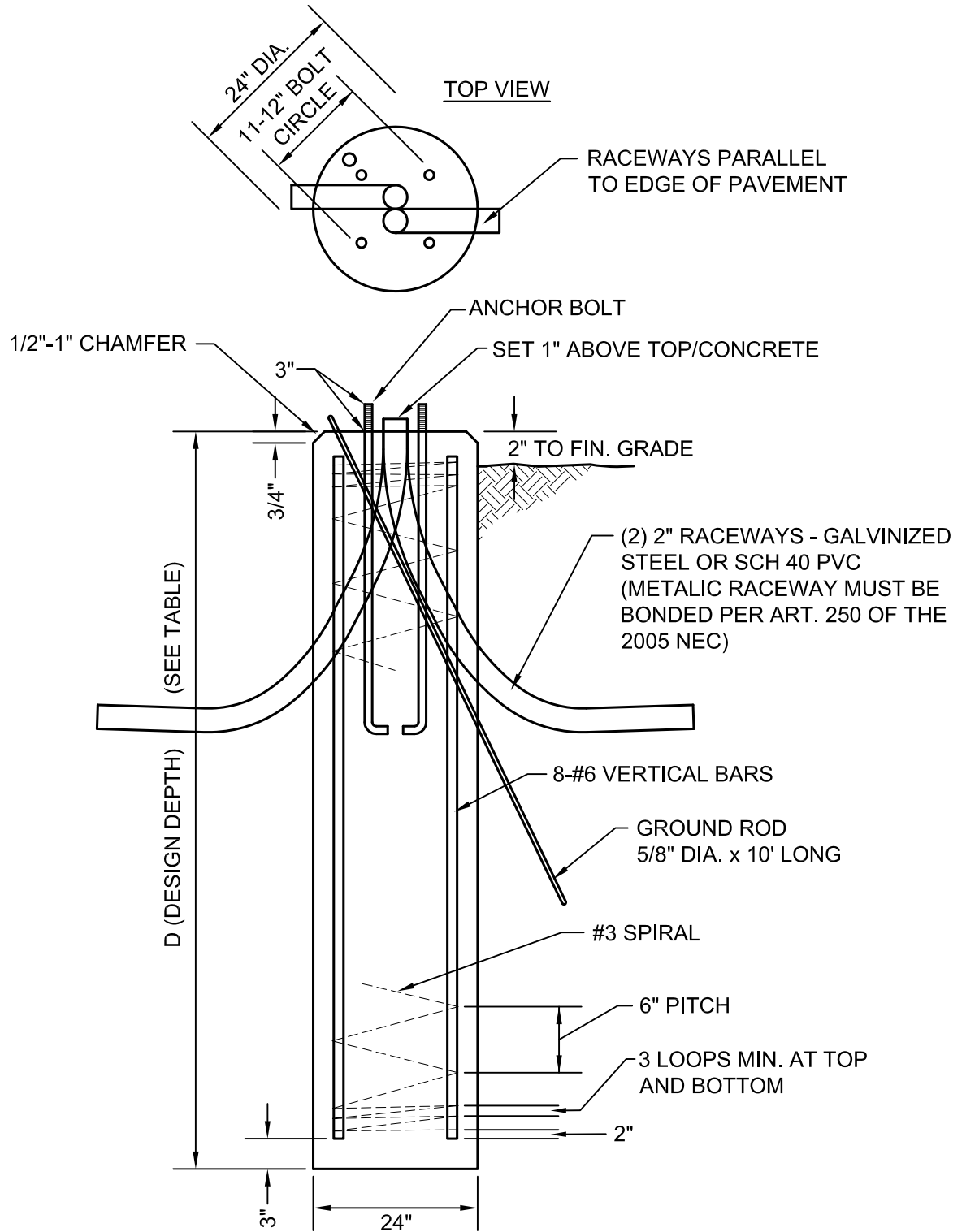
24 IN. DIA. FOUNDATION DEPTH TABLE  
DESIGN BASE ON 80 M.P.H. AASHTO WIND LOADING

TYPE OF SOIL	FOUNDATION DEPTH D	REINFORCEMENT IN FOUNDATION	
		VERTICAL BARS	HORIZONTAL BARS
ROCK OR SOLIDIFIED SLAG	5' - 0"	NONE	NONE
DENSE SAND	7' - 9"	8 - #6 X 7'-4"	#3 X 73'
MEDIUM SAND	8' - 3"	8 - #6 X 7'-10"	#3 X 78'
LOOSE SAND	9' - 0"	8 - #6 X 8'-7"	#3 X 85'
STIFF CLAY	7' - 0"	8 - #6 X 6'-7"	#3 X 66'
MEDIUM CLAY	9' - 6"	8 - #6 X 9'-1"	#3 X 90'
SOFT CLAY	13' - 0"	8 - #6 X 12'-7"	#3 X 122'

REV.:	REV.:
REV.:	REV.:
DRAWN BY:	DATE: 4-3-18

LIGHTING FOUNDATION  
SIZE CHART

CITY OF WOOD DALE



**CONCRETE POLE FOUNDATION  
DETAIL**

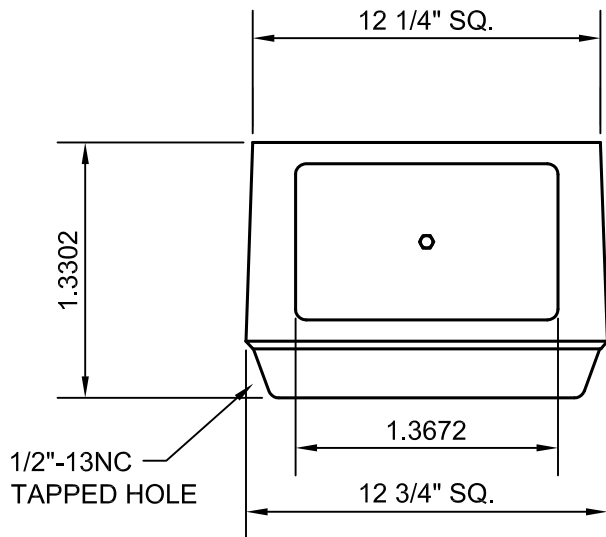
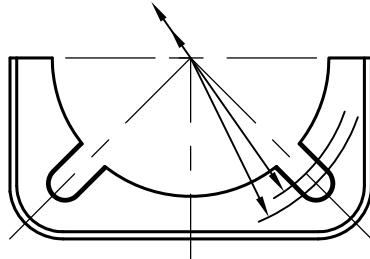
REVISED: 01/01/2013

SHEET 1 OF 2

BASE SUPPLIED WITH:

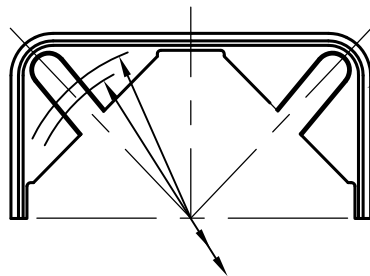
1. DOOR AND 1/4"-20NC S.S. HEX. HD. SCREW
2. EIGHT 1" WASHERS 1/2" THICK X 2 3/4" O.D. (GALV. PER ASTM A153 OR ASTM B454)
3. FOUR 1"-8NC X 3 3/4" LONG GALV. STL. HEX. HD. BOLTS
4. FOUR 1"-8NC GALV. STL. HEX. NUTS
5. FOUR 1" GALV. STL. LOCK WASHERS
6. FOUR 1" GALV. STL. FLAT WASHERS

10 1/2" TO 12" DIA.  
BOLT CIRCLE



AKRON FOUNDRY TB6-9"  
MATERIAL: ALUM. ALLOY 356-T6

4043 WELD WIRE (HEAT  
TREAT AFTER WELDING)



4043 WIRE WITH APPROXIMATELY 5" OF  
TOTAL WELD ON INTERNAL CORNERS

10 1/2" TO 12 1/2" DIA.  
BOLT CIRCLE

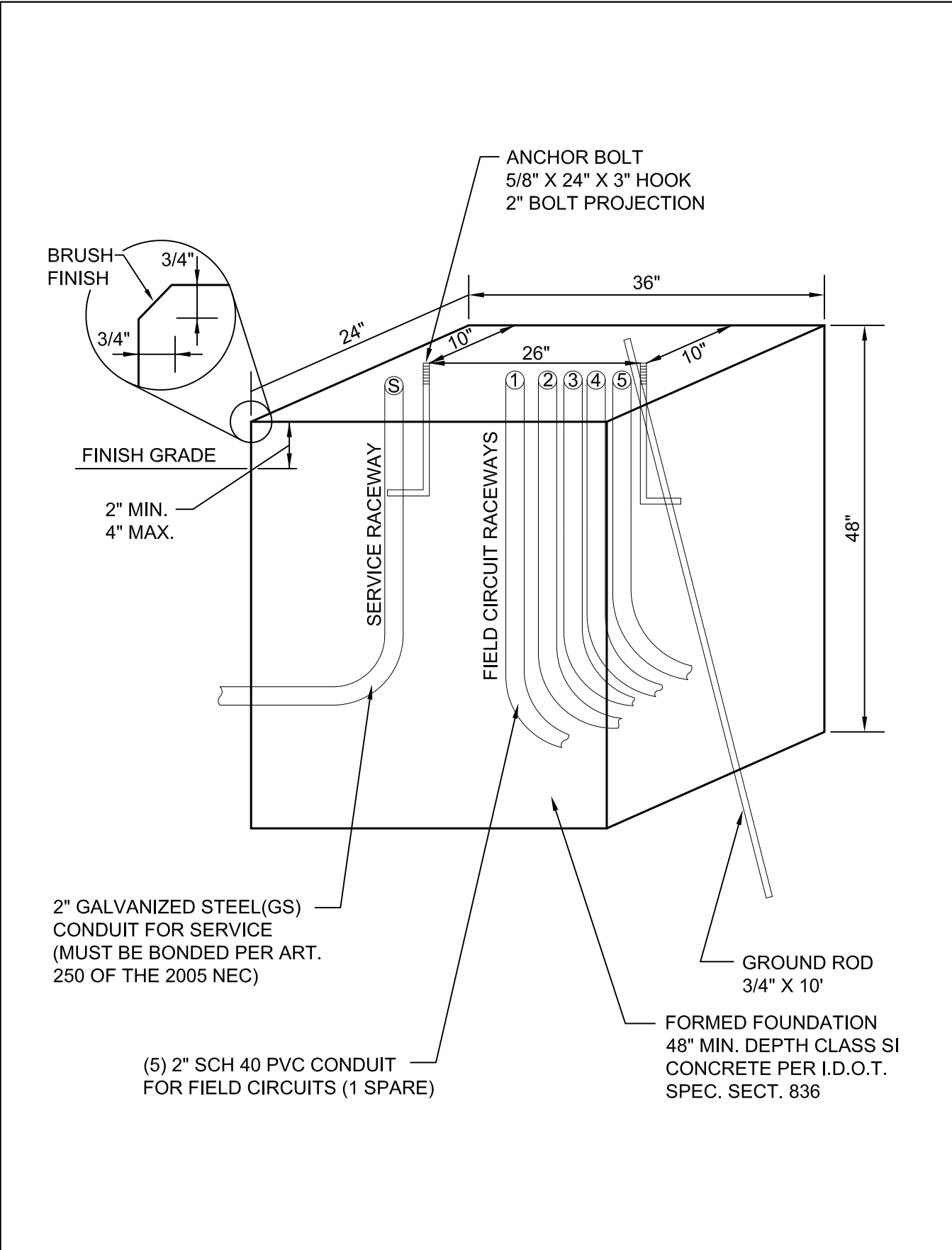
NOTE:

BASE POWDER COATED  
TEXTURED DARK BRONZE PER  
73737-T31 WHICH HAS HAPCO'S  
STANDARD 5 YEAR WARRANTY.

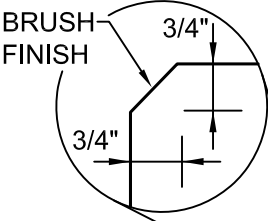
**TRANSFORMER BASE - 9 INCH**

REVISED: 01/01/2013

SHEET 1 OF 1



ANCHOR BOLT  
 5/8" X 24" X 3" HOOK  
 2" BOLT PROJECTION



BRUSH FINISH  
 3/4"  
 3/4"  
 FINISH GRADE  
 2" MIN.  
 4" MAX.

SERVICE RACEWAY

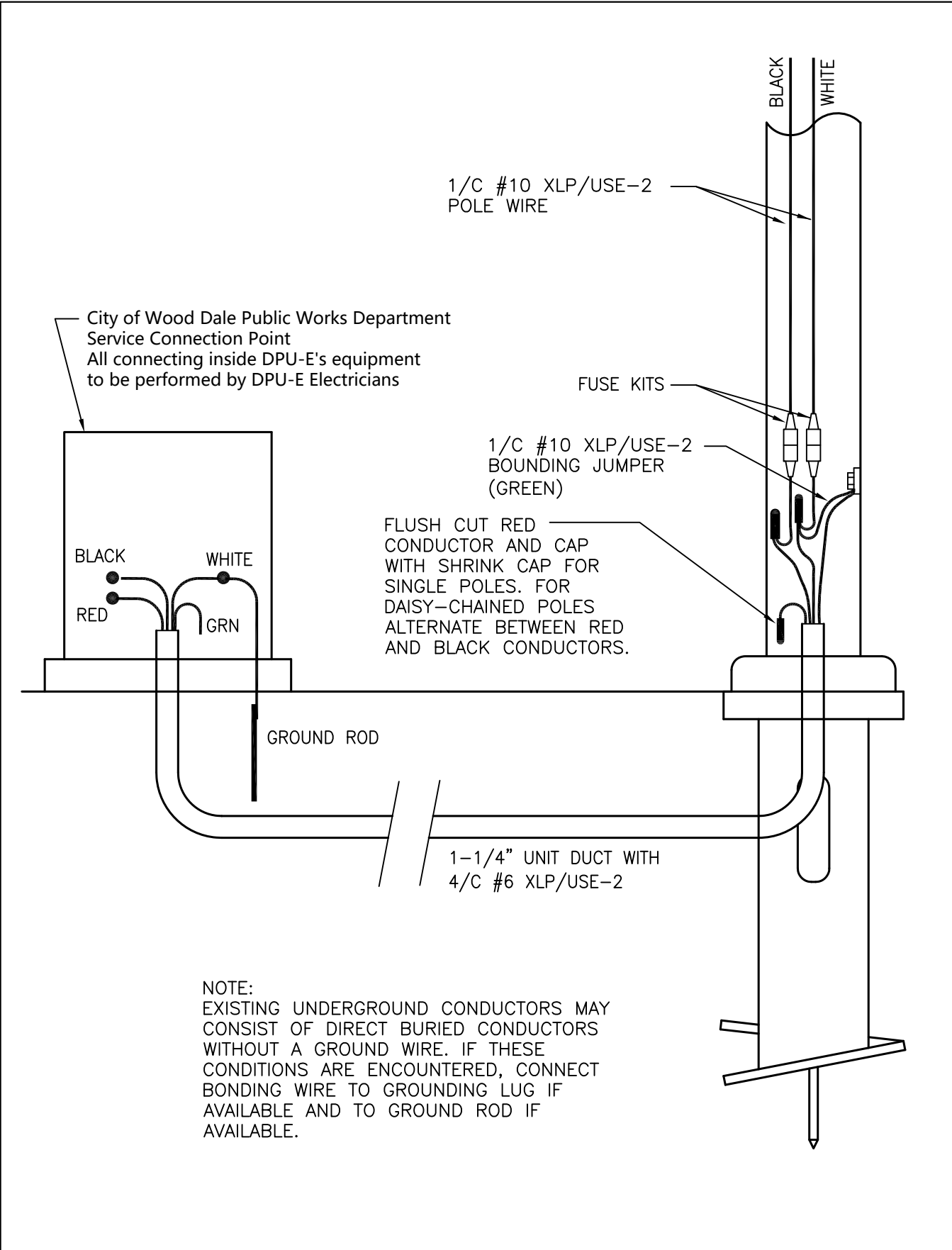
FIELD CIRCUIT RACEWAYS

2" GALVANIZED STEEL(GS)  
 CONDUIT FOR SERVICE  
 (MUST BE BONDED PER ART.  
 250 OF THE 2005 NEC)

(5) 2" SCH 40 PVC CONDUIT  
 FOR FIELD CIRCUITS (1 SPARE)

GROUND ROD  
 3/4" X 10'

FORMED FOUNDATION  
 48" MIN. DEPTH CLASS SI  
 CONCRETE PER I.D.O.T.  
 SPEC. SECT. 836



City of Wood Dale Public Works Department  
 Service Connection Point  
 All connecting inside DPU-E's equipment  
 to be performed by DPU-E Electricians

1/C #10 XLP/USE-2  
 POLE WIRE

FUSE KITS

1/C #10 XLP/USE-2  
 BOUNDING JUMPER  
 (GREEN)

FLUSH CUT RED  
 CONDUCTOR AND CAP  
 WITH SHRINK CAP FOR  
 SINGLE POLES. FOR  
 DAISY-CHAINED POLES  
 ALTERNATE BETWEEN RED  
 AND BLACK CONDUCTORS.

GROUND ROD

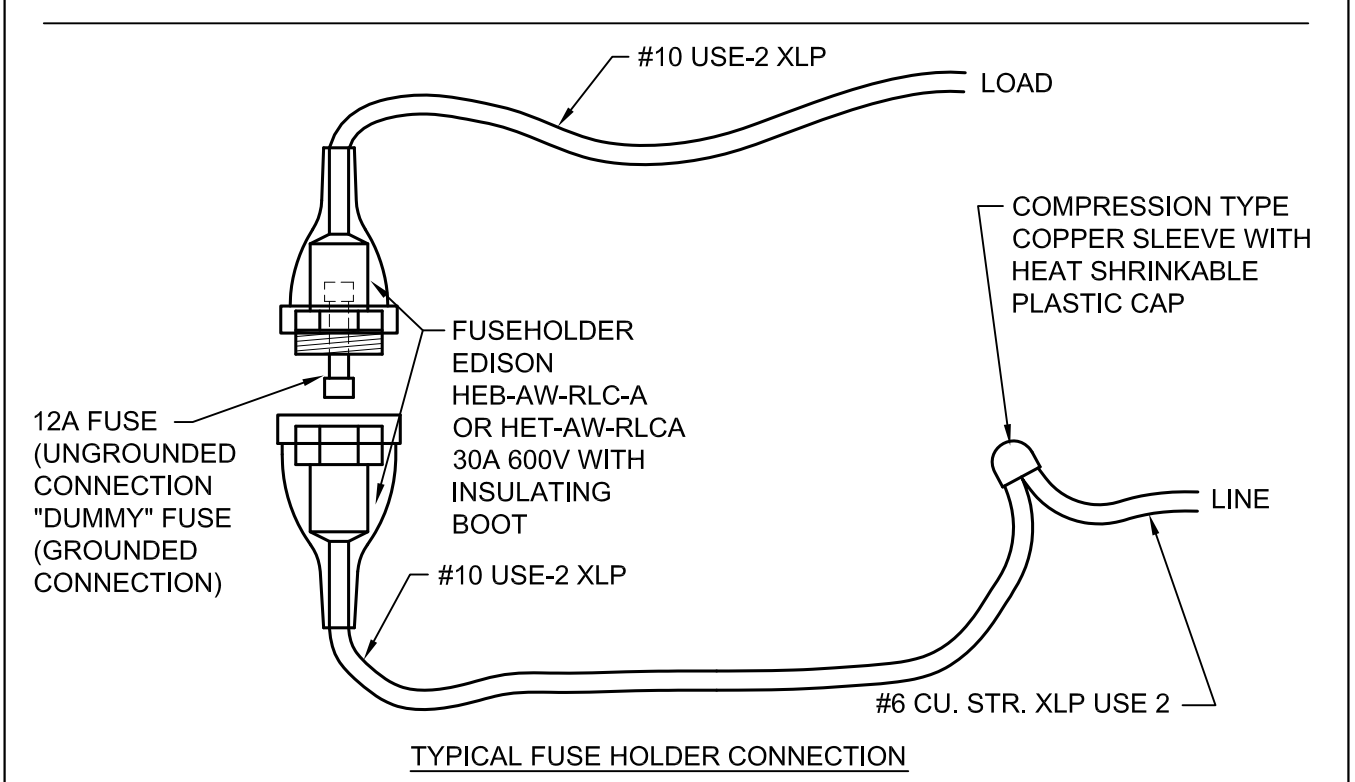
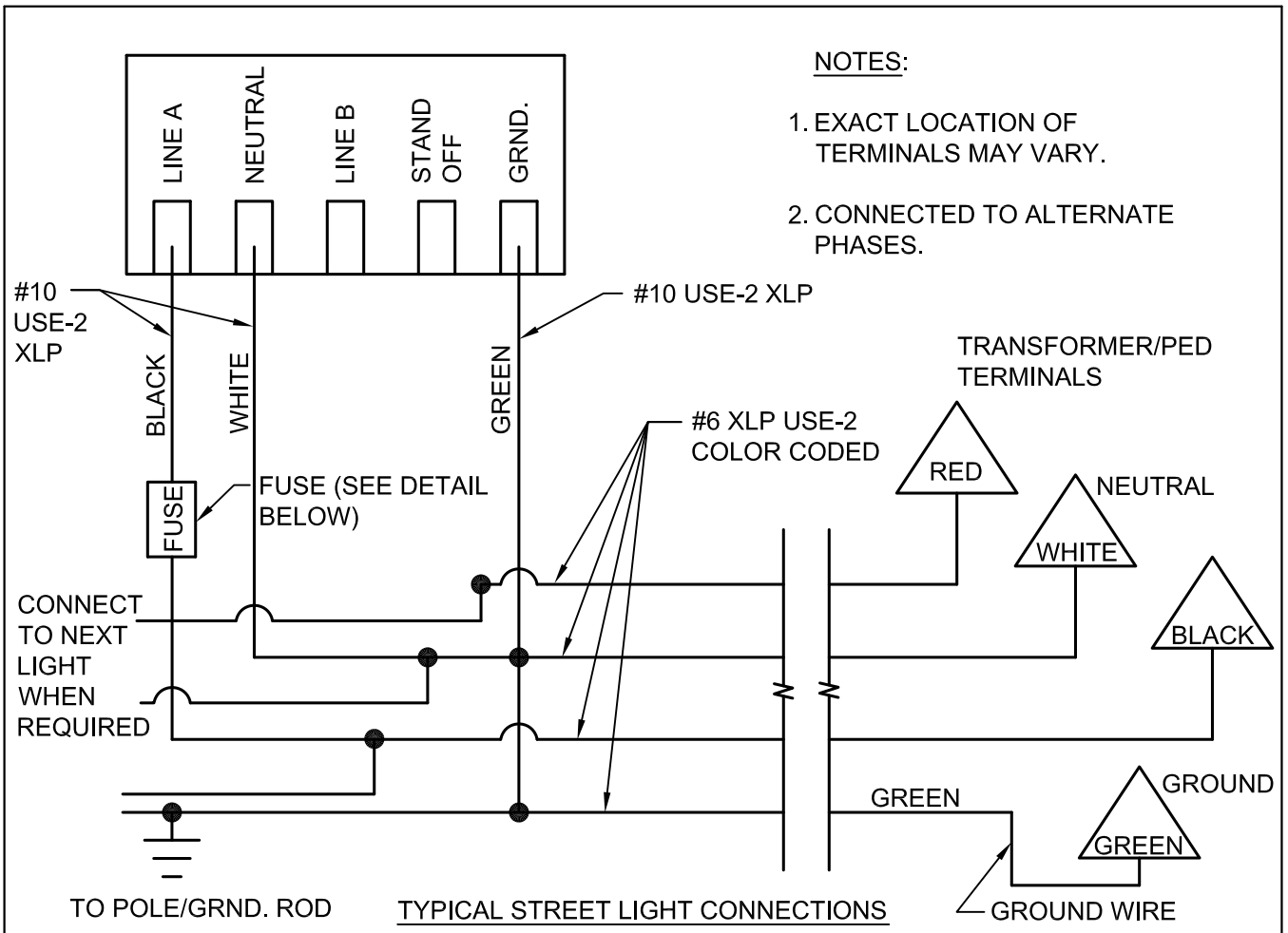
1-1/4" UNIT DUCT WITH  
 4/C #6 XLP/USE-2

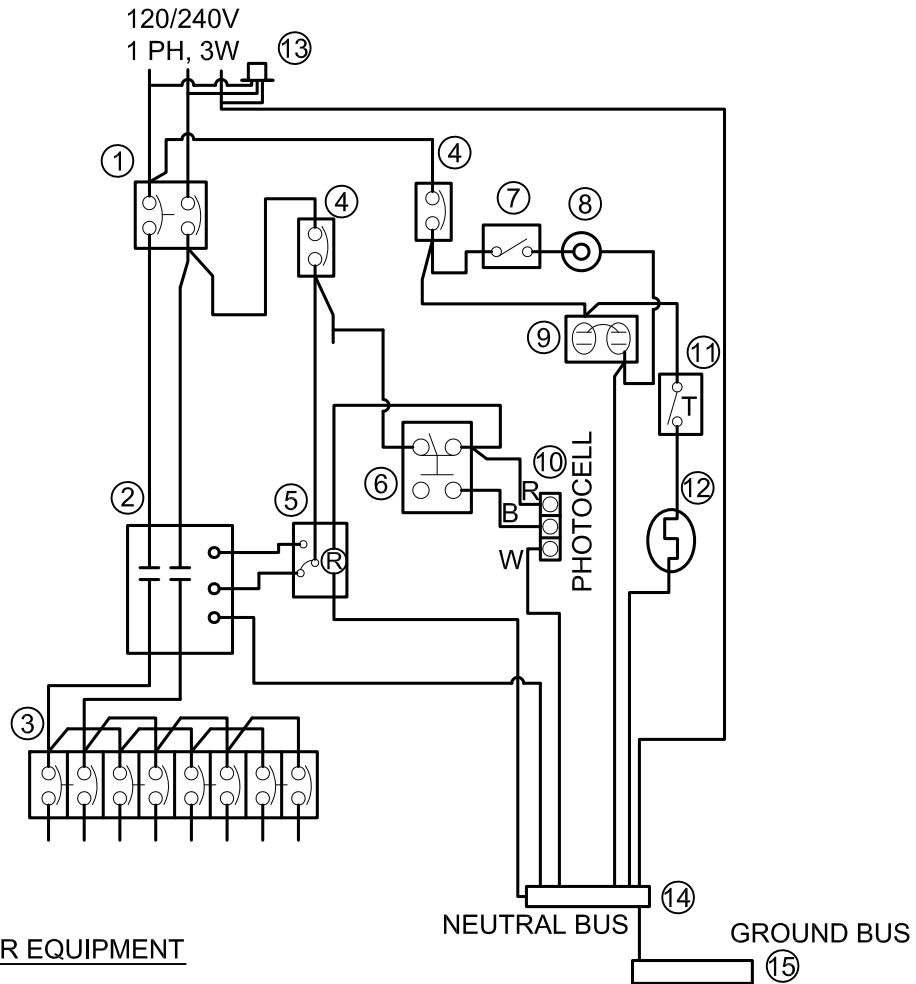
NOTE:  
 EXISTING UNDERGROUND CONDUCTORS MAY  
 CONSIST OF DIRECT BURIED CONDUCTORS  
 WITHOUT A GROUND WIRE. IF THESE  
 CONDITIONS ARE ENCOUNTERED, CONNECT  
 BONDING WIRE TO GROUNDING LUG IF  
 AVAILABLE AND TO GROUND ROD IF  
 AVAILABLE.

**TYPICAL STREET LIGHT  
 CONNECTION**

REVISED: 01/01/2013

SHEET 1 OF 2





1. 100 AMPERE MAIN BREAKER, 2 POLE, 240 VOLT, JDB 2100
2. 100 AMPERE CONTACTOR, 2 POLE, SINGLE THROW, ELECTRICALLY OPERATED AND MECHANICALLY HELD REMOTE SWITCH, 120 VOLT, ASCO 2P, 100 AMP, MODEL NUMBER 920210031.
3. EIGHT (8) 35 AMPERE, 1 POLE CIRCUIT BREAKERS, 120 VOLT, "I-LINE".
4. CONTROL BREAKER, 1 POLE, 15 AMPERE, WE GC1015.
5. RELAY, DPT, 120 VOLT, ON-DELAY, MAGNACRAFT W211ACPSOX-7.
6. 15 AMPERE, HOA SWITCH, 120 VOLT, SQUARE D MANUAL RETURN KS43FBH13, NEMA 4X ENCLOSURE.
7. SPST 20 AMPERE SWITCH.
8. INCANDESCENT LIGHT FIXTURE OF THE ENCLOSED GASKETED TYPE, CROUSE HINDS VXHF15GP.
9. 20 AMPERE DUPLEX RECEPTACLE, GFCI.
10. PHOTOCELL TERMINAL BLOCK.
11. THERMOSTAT, GRAINGER 2E552.
12. HEATING STRIP, 150 WATT GRAINGER 2E919
13. SURGE PROTECTOR, SQUARE D SP-11100
14. NEUTRAL BUS BAR, 1/4" X 1" X 12", COLOR CODED WHITE, LABELED "NEUTRAL".
15. GROUND BUS BAR, 1/4" X 1" X 12", COLOR CODED GREEN, LABELED "GROUND".

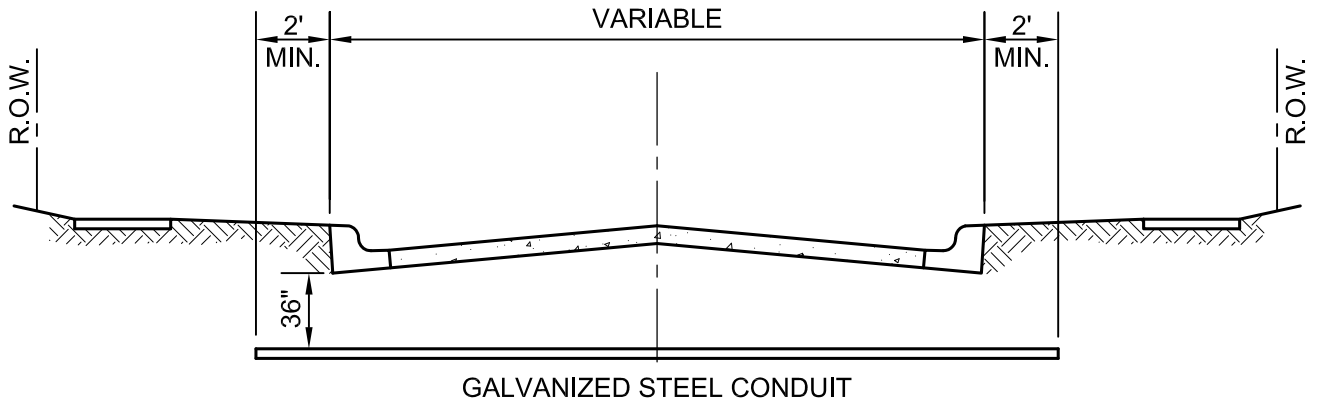
120 VOLT, 60 HERTZ. PHOTO ELECTRIC CELL (D-T-L) UNIT DUCT, 1-1/4", FOR PHOTOCELL CABLE (3/C-#10 USE-2/XLP) IF CONDUIT TO NEAREST POLE IS NOT AVAILABLE

## STREET LIGHTING CONTROLLER SCHEMATIC

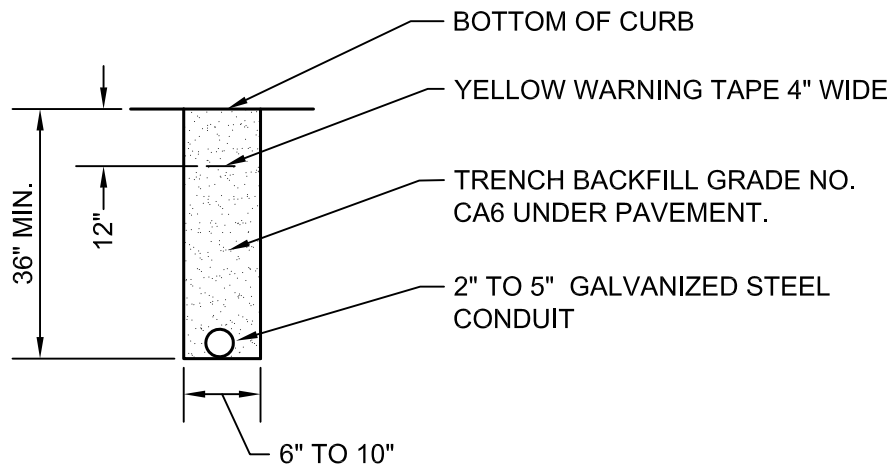
REVISED: 01/01/2013

SHEET 1 OF 1





STREET CROSSING



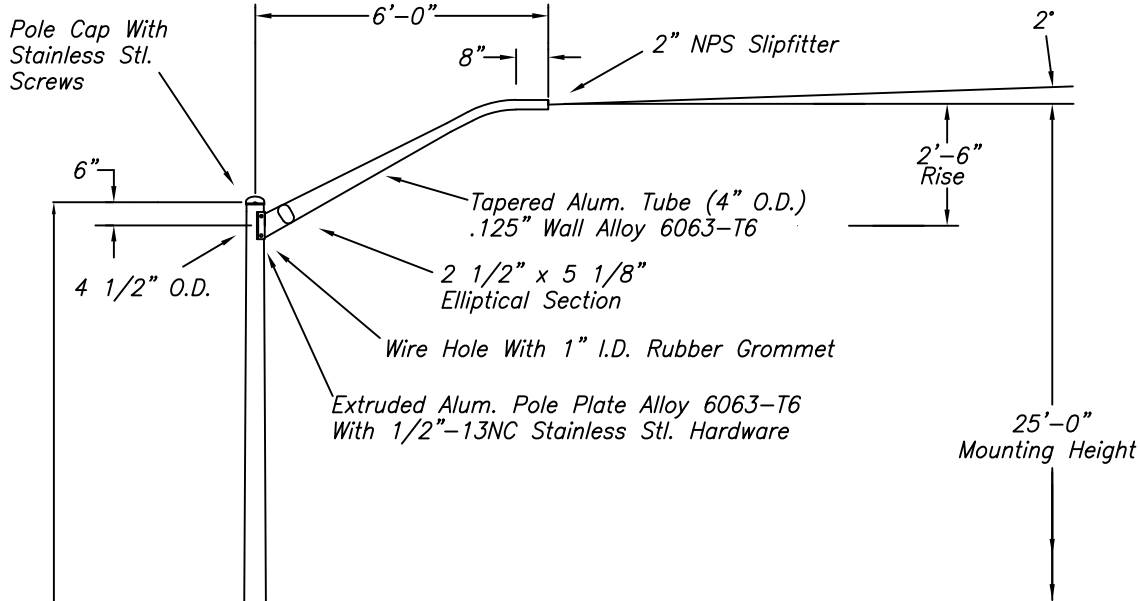
NOTES:

1. CONDUIT SHALL BE GALVANIZED STEEL CONDUIT.
2. CONDUIT SHALL EXTEND A MINIMUM OF 2' BEYOND BACK OF CURB.
3. CONDUIT SHALL BE A MINIMUM OF 36" BELOW CURB BOTTOM.

**ELECTRIC CONDUIT UNDER  
PAVEMENT**

REVISED: 01/01/2013

SHEET 1 OF 1



**Notes:**

- 1) Pole Assembly Consists Of:
  - 1 Ea Shaft Assembly R230C6B00121001
  - 1 Ea Arm Assembly 47005-005
  - 1 Ea Hardware Package 21-001XH

23'-0"

Tapered Alum. Tube  
.156" Wall Alloy 6063-T6  
Satin Ground Finish

- (4) 1"-8NC Galv. Stl. Anchor Bolts, AASHTO M314-90 Grade 55, 10" Of Threaded End Galv. Per ASTM A153.
- (4) 1"-8NC Galv. Stl. Hex. Nuts
- (4) 1" Galv. Stl. Lockwashers
- (4) 1" Galv. Stl. Flatwashers

Grounding Lug Opposite Handhole For Grounding

Reinforced Handhole (3" X 5") With Cover And Stainless Stl. Hex. Hd. Screws

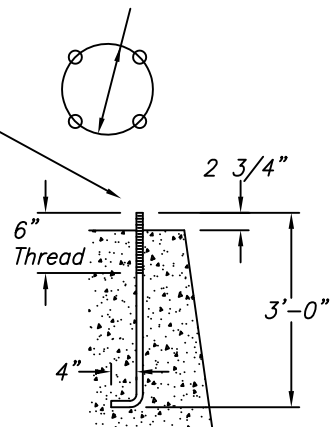
Base Flange Alloy 356-T6 With Bolt Covers And Stainless Stl. Hex. Hd. Screws

6" O.D.

1'-6"

9 3/4" Square

9" To 10" Dia.  
Bolt Circle



B21-285W3

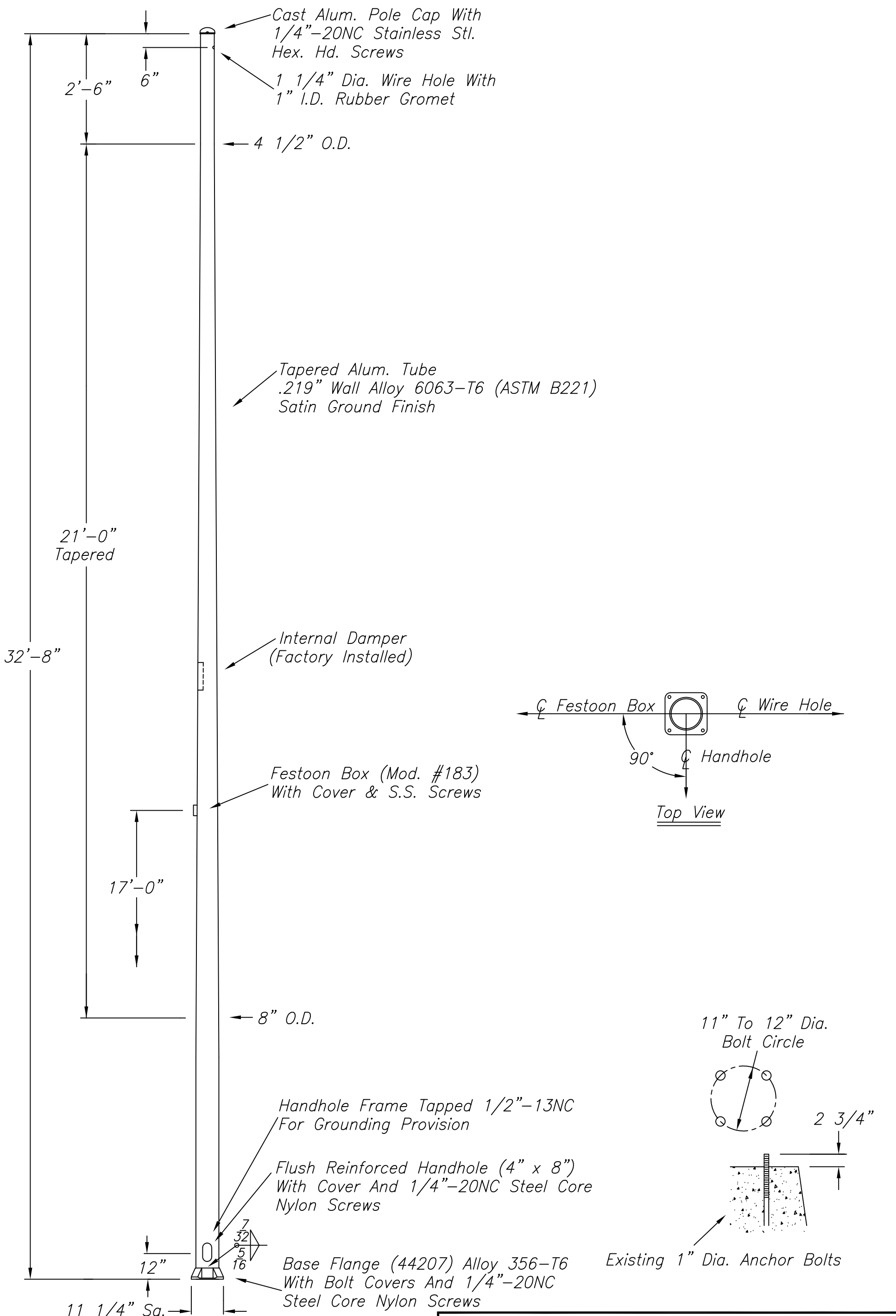
**WARNING: DO NOT INSTALL LIGHTING POLES WITHOUT LUMINAIRES**

NO.	REVISIONS	DATE

**hapco**

Abingdon, Va.

TITLE 25'-0" LIGHTING POLE	
CUSTOMER	
SCALE 32	DATE 12/09/2008
BY RDG	DWG. NO. Packet Page #362
CHK'D	B21-285W3

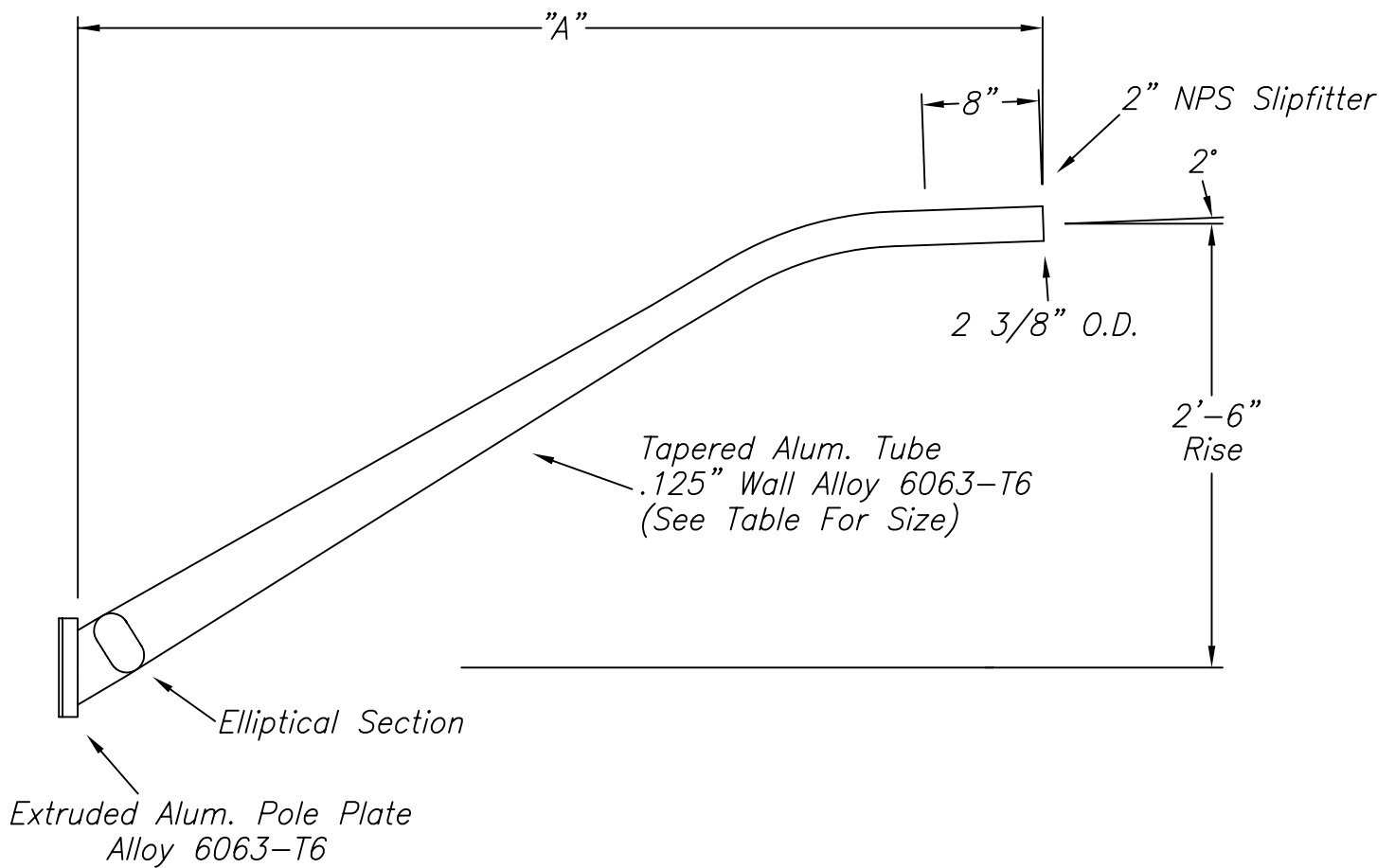


B80543

WARNING: DO NOT INSTALL LIGHTING POLES WITHOUT LUMINAIRES

NO.	REVISIONS	DATE

 Abingdon, Va.	TITLE <i>SHAFT ASSEMBLY</i>	
	CUSTOMER <i>RIVER GROVE, ILL.</i>	
	SCALE <i>NTS</i>	DATE <i>3/7/01</i>
	BY <i>LW</i>	DWG. NO. <i>B80543</i>
CHK'D	Packet Page #363	



Item No.	A	Tube Size	Max. Lum. Wt. @ Cg=Length+1 Ft.
50004-001	3'-6"	3 1/2" O.D.	75#
50004-002	5'-6"	4" O.D.	71#
50004-003	7'-6"	4" O.D.	52#
50004-004	9'-6"	5" O.D.	55#

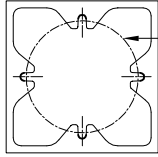
Furnish The Following Stainless Steel  
Hardware With Each Arm:  
 (4) 1/2"-13NC x 1 1/2" Long Hex. Hd. Bolts  
 (4) 1/2"-13NC Hex. Nuts  
 (4) 1/2" Lockwashers  
 (1) 1" I.D. Rubber Grommet

NO.	REVISIONS	DATE
5	Redrawn LW	01/02

**hapco**  
Abingdon, Va.

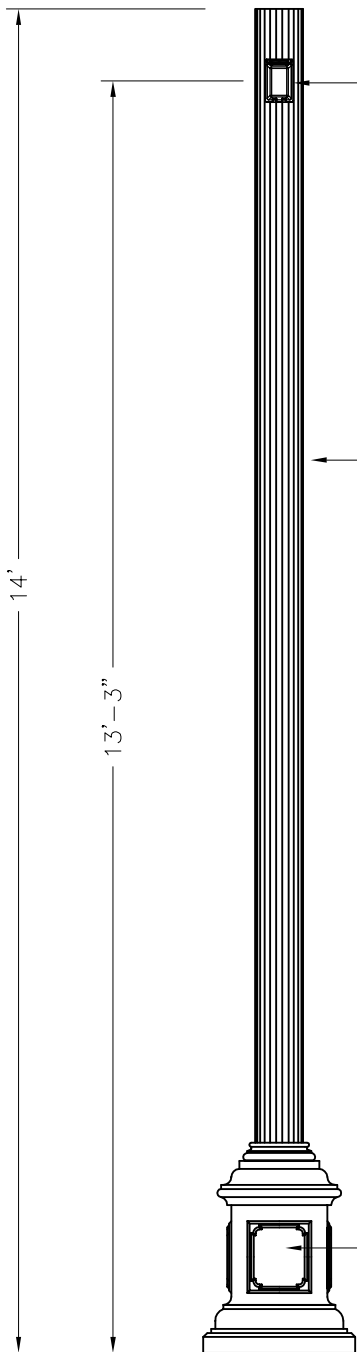
TITLE TAPERED ARMS (4.5" O.D. Pole)	
CUSTOMER	
SCALE NTS	DATE 10/11/66
BY LW	DWG. NO.
CHK'D	A50004

STREET SIDE



MODIFIED BASE FOR  
14" DIA. BOLT CIRCLE FOR 1" DIA.  
ANCHOR BOLTS

ACCESS DOOR  
GFI(LP)IUC



LOW PROFILE DUPLEX GFI  
RECEPTACLE WITH IN USE COVER

SMOOTH, BLACK FINISH

6" DIA. FLUTED POLE  
.250 WALL THICKNESS  
6061-T6 STRUCTURAL  
GRADE ALUMINUM.

POLE WELDED FOR SINGLE  
UNIT CONSTRUCTION

POLE SHAFT TO BE SLEEVED  
WITH 5", .250 WALL THICKNESS  
ALUMINUM POLE

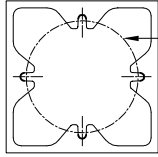
TO BE USED WITH (2) WAY  
FINDING SIGNS MOUNTED  
SIDE-BY-SIDE BY OTHERS

ACCESS DOOR

19" SQ. BASE, 1" FLOOR THICKNESS  
4 ANCHOR BOLTS

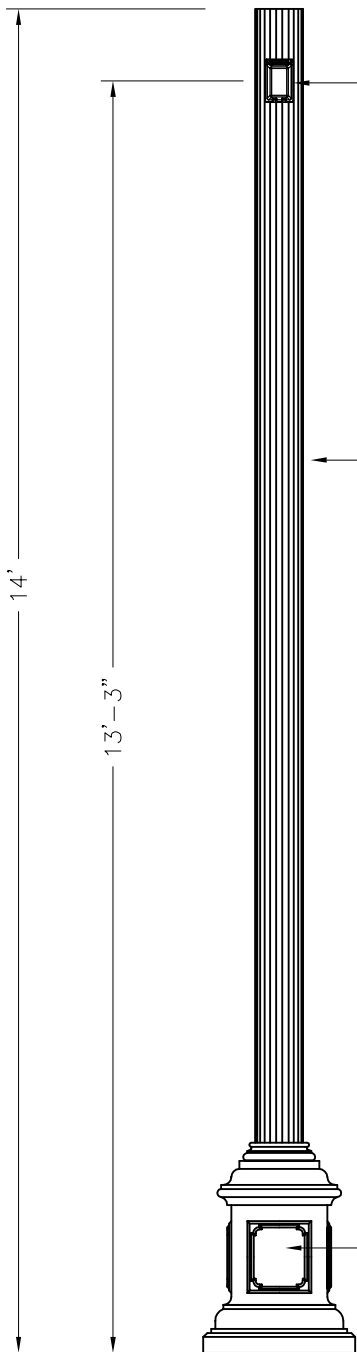
DRAWN	AMK	WOOD DALE, IL	RVSD	DATE	2-8-18	REV	REVISIONS	DRAWING NUMBER	SC25639-B
	SCALE						8214FP6-MOD/GFI-LPIUC/BK		
SternbergLighting									

STREET SIDE



MODIFIED BASE FOR  
14" DIA. BOLT CIRCLE FOR 1" DIA.  
ANCHOR BOLTS

ACCESS DOOR  
GFI(LP)IUC



LOW PROFILE DUPLEX GFI  
RECEPTACLE WITH IN USE COVER

SWEDISH IRON FINISH

6" DIA. FLUTED POLE  
.250 WALL THICKNESS  
6061-T6 STRUCTURAL  
GRADE ALUMINUM.

POLE WELDED FOR SINGLE  
UNIT CONSTRUCTION

POLE SHAFT TO BE SLEEVED  
WITH 5", .250 WALL THICKNESS  
ALUMINUM POLE

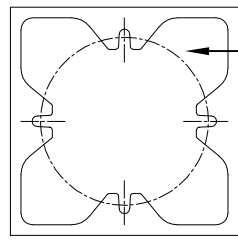
TO BE USED WITH (2) WAY  
FINDING SIGNS MOUNTED  
SIDE-BY-SIDE BY OTHERS

ACCESS DOOR

19" SQ. BASE, 1" FLOOR THICKNESS  
4 ANCHOR BOLTS

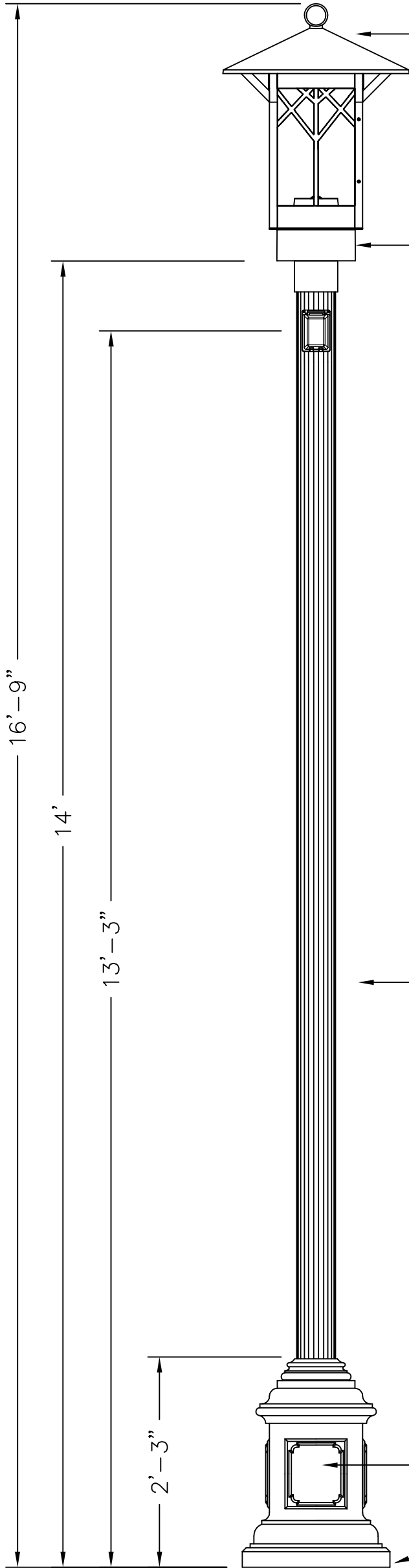
DRAWN	LMG	WOOD DALE, IL	RVSD	DATE	4-4-16	REV	REVISIONS	DRAWING NUMBER	SC256639
	SCALE						8214FP6-MOD/GFI-LPIUC/SI		
SternbergLighting									

STREET SIDE



ACCESS DOOR

14" DIA. BOLT CIRCLE FOR 3/4" DIA. ANCHOR BOLTS



356 ALLOY, CAST ALUMINUM  
FIXTURE ROOF AND HOUSING

95 WATT, ROOF MOUNTED  
LED ARRAY, 4500K COLOR TEMP

WHITE ACRYLIC LENSES

356 ALLOY, CAST ALUMINUM  
DRIVER COMPARTMENT

SMOOTH BLACK FINISH

5" DIA. FLUTED POLE  
.188 WALL THICKNESS  
6061-T6 STRUCTURAL  
GRADE ALUMINUM

POLE WELDED FOR SINGLE  
UNIT CONSTRUCTION

ACCESS DOOR

19" SQR. BASE, 1" FLOOR THICKNESS  
4 ANCHOR BOLTS AND 1 GROUND LUG

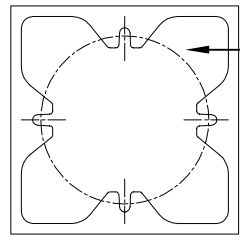
REV	REVISIONS	DATE	RVSD	WOOD DALE, IL ISTHA 4680 - WOOD DALE RD BRIDGE OVER I390 1230LEDPT/8214FP5/4A1R45T3/ML/GFI-LPIUC/WA/BK ITEM X8250500	POLE HEIGHTS HAVE A TOLERANCE OF + OR - 2"	DRAWN AMK SCALE 3/4" = 1'
		2/8/18				
A	ORIGINAL					

**STERNBERG**

SINCE 1923

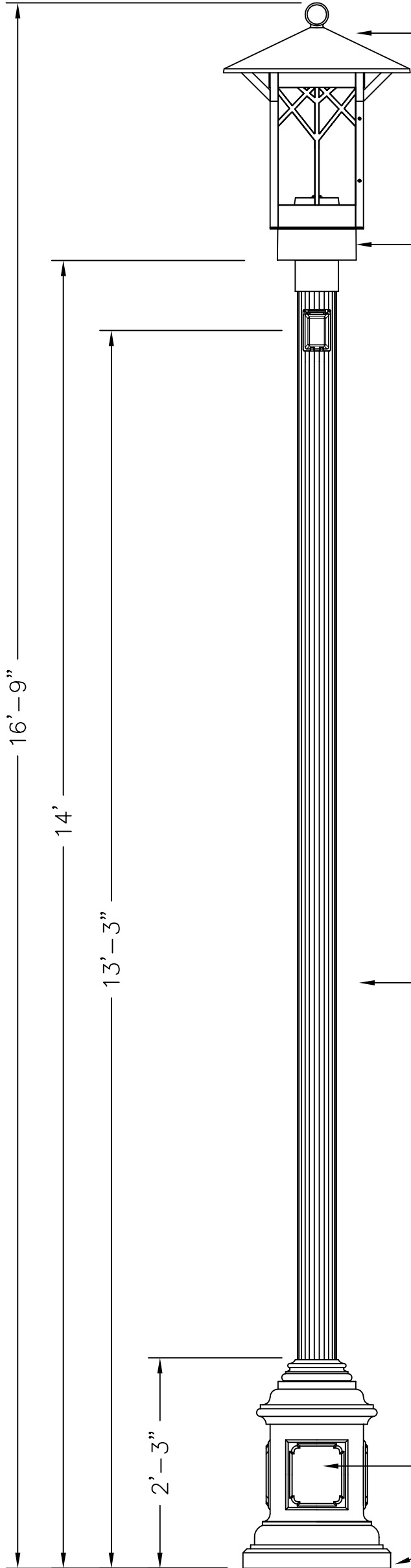
DRAWING NUMBER  
SC24215-B

STREET SIDE



ACCESS DOOR

14" DIA. BOLT CIRCLE FOR 3/4" DIA. ANCHOR BOLTS



356 ALLOY, CAST ALUMINUM  
FIXTURE ROOF AND HOUSING

95 WATT, ROOF MOUNTED  
LED ARRAY, 4500K COLOR TEMP

WHITE ACRYLIC LENSES

356 ALLOY, CAST ALUMINUM  
DRIVER COMPARTMENT

SWEDISH IRON FINISH

5" DIA. FLUTED POLE  
.188 WALL THICKNESS  
6061-T6 STRUCTURAL  
GRADE ALUMINUM

POLE WELDED FOR SINGLE  
UNIT CONSTRUCTION

ACCESS DOOR

19" SQR. BASE, 1" FLOOR THICKNESS  
4 ANCHOR BOLTS AND 1 GROUND LUG

REV	REVISIONS	DATE	RVSD	WOOD DALE, IL ISTHA 4680 - WOOD DALE RD BRIDGE OVER I390 1230LEDPT/8214FP5/4A1R45T3/ML/GFI-LPIUC/WA/SI ITEM X8250500	POLE HEIGHTS HAVE A TOLERANCE OF + OR - 2"	DRAWN SS
		7/22/15				
A	ORIGINAL					

**STERNBERG**

SINCE 1923

DRAWING NUMBER  
SC24215





Consistent with LEED® goals  
& Green Globes™ criteria  
for light pollution reduction

# Autobahn Series ATBS Roadway & Security Lighting

## PRODUCT OVERVIEW



### Applications:

- Residential streets
- Parking lots
- General security lighting

### Features:

#### OPTICAL

**Same Light:** Performance is comparable to 50W – 150W HPS and up to 175W Mercury Vapor roadway and security lighting luminaires.

**White Light:** Correlated color temperature - standard 4000K, 70 CRI minimum or optional 5000K, 70 CRI minimum.

IP66 rated borosilicate glass optics ensure longevity and minimize dirt depreciation. Unique IP66 rated LED light engines provide 0% uplight and restrict backlight to within sidewalk depth, providing optimal application coverage and optimal pole spacing.

Available distributions are Type II, III, and V roadway distributions. When used with the optional acrylic refractor the unit provides approximately 10% uplight and increased vertical foot-candles

#### ELECTRICAL

**Expected Life:** LED light engines are rated >100,000 hours at 25°C, L70. Electronic driver has an expected life of 100,000 hours at a 25°C ambient.

**Lower Energy:** Saves an expected 40-60% over comparable HID luminaires.

**Robust Surge Protection:** Three different surge protection options provide a minimum of IEEE/ANSI C62.41 Category C (10kV/5kA) protection.

#### MECHANICAL

Includes standard AEL lineman-friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easy leveling at installation.

Rugged die-cast aluminum housing and door are polyester powder-coated for durability and corrosion resistance. Rigorous five-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5000 hours exposure to salt fog chamber (operated per ASTM B117).

Mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter. The 2 – bolt clamping mechanism provides 3G vibration rating per ANSI C136.

The Wildlife shield is cast into the housing (not a separate piece).

#### CONTROLS

NEMA 3 pin photocontrol receptacle is standard, with the Acuity designed ANSI standard 5 pin and 7 pin receptacles optionally available.

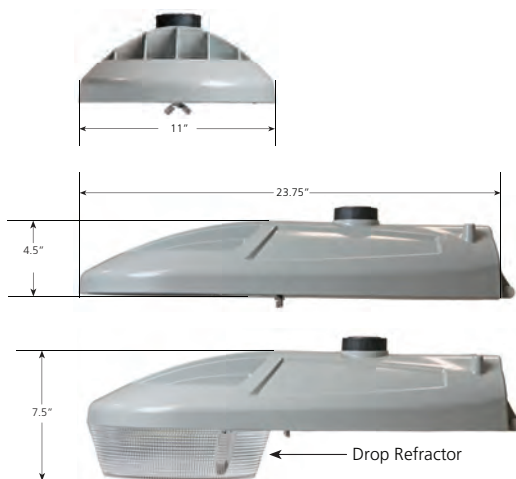
Premium solid state locking-style photocontrol – PCSS (10 year rated life)  
Extreme long life solid state locking-style photocontrol – PCL1 (20 year rated life)

Optional onboard Adjustable Output module allows the light output and input wattage to be modified to meet site specific requirements, and also can allow a single fixture to be flexibly applied in many different applications.

#### STANDARDS

Rated for -40°C to 40°C ambient  
CSA Certified to U.S. and Canadian standards  
Complies with ANSI: C136.2, C136.10, C136.14, C136.31, C136.15, C136.37

### DIMENSIONS



Effective Projected Area (EPA) The EPA for the ATBS is 0.3 sq. ft.,  
Approx. Wt. = 12 lbs. (5 kg)

Note: Specifications subject to change without notice. Actual performance may differ as a result of end-user environment and application.

# Autobahn Series ATBS

## Roadway & Security Lighting

### ORDERING INFORMATION

Example: ATBS A MVOLT R2

Series	Performance Packages	Voltage	Optics
<b>ATBS</b> Autobahn LED Roadway & Security	<b>A</b> 1,800 lumens <b>B</b> 2,400 lumens <b>E</b> 4,000 lumens <b>F</b> 4,600 lumens <b>G</b> 5,600 lumens <b>H</b> 6,300 lumens	<b>MVOLT</b> Multi-volt, 120-277V	<b>R2</b> Roadway Type II <b>R3</b> Roadway Type III <b>R5</b> Roadway Type V <b>D2</b> Type II, Drop Refractor included <b>D3</b> Type III, Drop Refractor included <b>D5</b> Type V, Drop Refractor included

### Options

#### Color Temperature (CCT)

**(Blank)** 4000K CCT, 70 CRI Min. (standard)  
**5K** 5000K CCT, 70 CRI Min.

#### Paint

**Blank** Gray (Standard)  
**BK** Black  
**WH** White  
**BZ** Bronze

#### Surge Protection

**Blank** Acuity SPD-10kV/5kA with inductive filter (Standard)  
**MP** MOV Pack  
**IL** SPD with Indicator Light

#### Misc.

**HSS** House Side Shield  
**NL** NEMA Label  
**XL** Not CSA Certified

#### Controls

**(Blank)** 3 Pin NEMA Photocontrol Receptacle  
**NR<sup>1</sup>** No Photocontrol Receptacle  
**DM** 0V-10V Dimmable Driver  
**P5** 5 Pin Photocontrol Receptacle (dimmable driver included)  
**P7** 7 Pin Photocontrol Receptacle (dimmable driver included)  
**PCSS<sup>1</sup>** DTL DSS Photocontrol  
**PCL1<sup>1</sup>** DTL DLL Photocontrol 120-277V  
**A0** Field Adjustable Output  
**SH** Shorting Cap

#### Install Packages

**PKGS** DTL DSS Photocontrol  
**PKGL** DTL DLL Photocontrol  
Packages ship with selected photocontrol, 24", 1 1/4" diameter arm, 5' of prewire and mounting hardware

#### Accessories

**ATBSREF** Drop Refractor for field installation  
**ATBSHSS** House Side Shield for field installation  
**ATBSLTS** Light Trespass Shield for field installation

#### Notes

1. Not available with Install Packages.



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**Warranty** Five-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)  
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Please contact your sales representative for the latest product information. **Packet Page #370**

# Autobahn Series ATBS

## Roadway & Security Lighting

### PERFORMANCE PACKAGE

Performance Package	Distribution	Lumens	LPW	Input Watts
A	R2	1,761	98	18
	R3	1,755	98	
	R5	1,838	102	
	D2	1,685	94	
	D3	1,658	92	
	D5	1,767	98	
B	R2	2,302	96	24
	R3	2,309	96	
	R5	2,411	100	
	D2	2,203	92	
	D3	2,182	91	
	D5	2,318	97	
E	R2	3,962	102	39
	R3	3,979	102	
	R5	4,246	109	
	D2	3,791	97	
	D3	3,760	96	
	D5	4,089	105	
F	R2	4,563	93	49
	R3	4,477	91	
	R5	4,795	98	
	D2	4,366	89	
	D3	4,231	86	
	D5	4,612	94	
G	R2	5,629	88	64
	R3	6,030	85	
	R5	5,837	91	
	D2	5,386	84	
	D3	5,118	80	
	D5	5,590	87	
H	R2	6,249	87	72
	R3	6,321	88	
	R5	6,739	94	
	D2	5,979	83	
	D3	5,973	83	
	D5	6,436	89	

**Note:** Information shown above is based on nominal system data. Individual fixture performance may vary. Specifications subject to change without notice.



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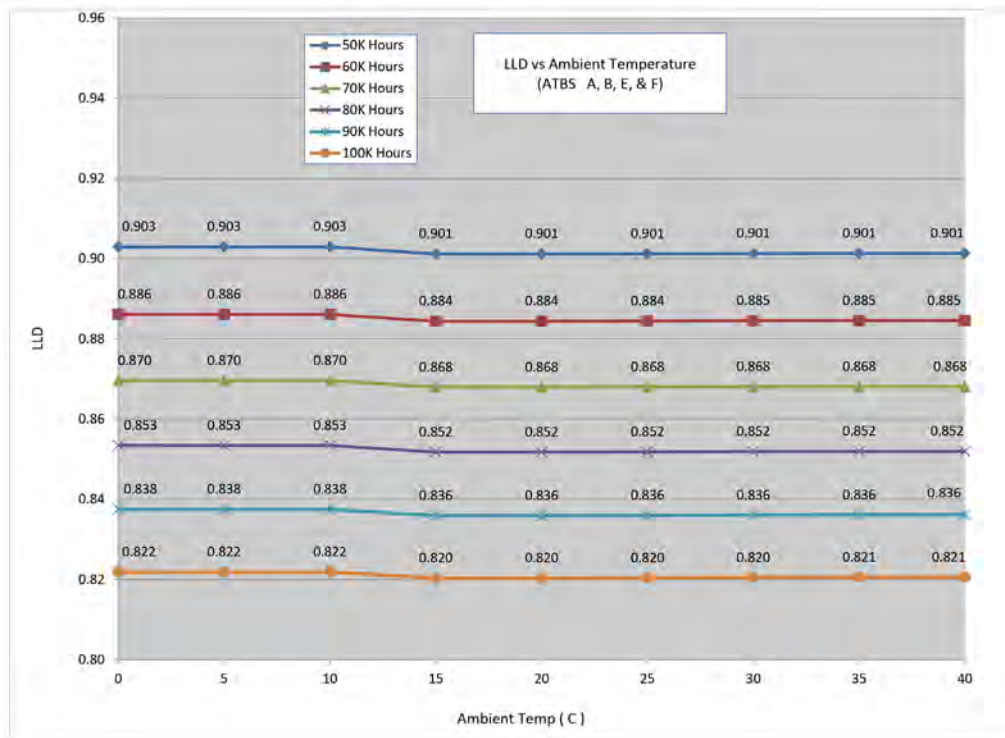
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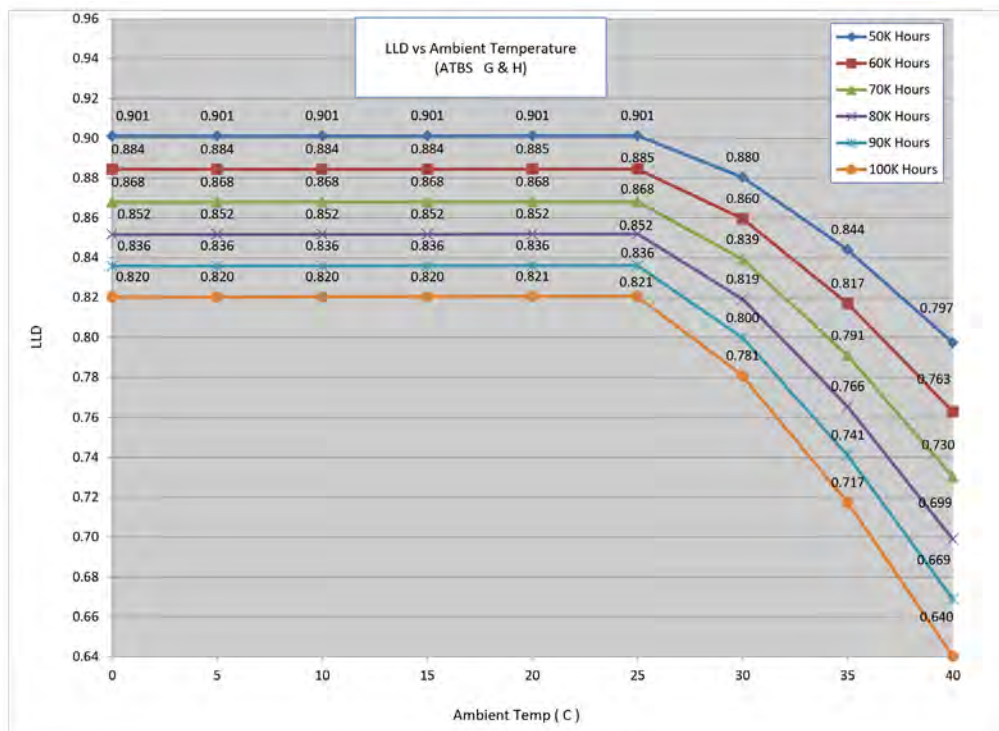
Please contact your sales representative for the latest product information. **Packet Page #371**

# Autobahn Series ATBS Roadway & Security Lighting

## PERFORMANCE PACKAGE



\* LLD vs. temperature charts are based on LM-80 chip data and in-situ thermal test testing per IES TM-21



\* LLD vs. temperature charts are based on LM-80 chip data and in-situ thermal test testing per IES TM-21



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Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction

# Autobahn Series ATB0

## Roadway Lighting

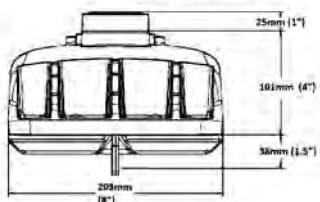
### PRODUCT OVERVIEW



### Applications:

- Roadways
- Off ramps
- Residential streets
- Parking lots

### DIMENSIONS



Effective Projected Area (EPA): The EPA for the ATB0 is 0.76 sq. ft.  
Approx. Wt. = 14 lbs.

### STANDARDS

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

Color temperatures of  $\leq 3000\text{K}$  must be specified for International Dark-Sky Association certification.

Rated for  $-40^{\circ}\text{C}$  to  $40^{\circ}\text{C}$  ambient

CSA Certified to U.S. and Canadian standards

Complies with ANSI: C136.2, C136.10, C136.14, C136.31, C136.15, C136.37

### Features:

#### OPTICAL

**Same Light:** Performance is comparable to 70-250W HPS roadway luminaires.

**White Light:** Correlated color temperature - 4000K, 70 CRI minimum, 3000K, 70 CRI minimum or optional 5000K, 70 CRI minimum.

Unique IP66 rated LED light engines provided 0% uplight and restrict backlight to within sidewalk depth, providing optimal application coverage and optimal pole spacing. Available in Type II, III, IV, and V roadway distributions.

#### ELECTRICAL

**Expected Life:** LED light engines are rated  $>100,000$  hours at  $25^{\circ}\text{C}$ , L70. Electronic driver has an expected life of 100,000 hours at a  $25^{\circ}\text{C}$  ambient.

**Lower Energy:** Saves an expected of 40-60% over comparable HID luminaires.

**Robust Surge Protection:** Three different surge protection options provide a minimum of ANSI C136.2 10kV/5kA protection. 20kV/10kA protection is also available.

#### MECHANICAL

Includes standard AEL lineman-friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easily leveling at installation.

Rugged die-cast aluminum housing and door are polyester powder-coated for durability and corrosion resistance. Rigorous five-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 7 (per ASTM D1654) after over 5000 hours exposure to salt fog chamber (operated per ASTM B117).

Mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter. Provides a 3G vibration rating per ANSI C136.31

Wildlife shield is cast into the housing (not a separate piece).

#### CONTROLS

NEMA 3 pin photocontrol receptacle is standard, with the Acuity designed ANSI standard 7 pin receptacle optionally available.

Premium solid state locking style photocontrol - PCSS (10 year rated life) Extreme long life solid state locking style photocontrol - PCLL (20 year rated life).

Multi-level dimming available to provide scheduled dimming as specified by the customer.

Optional onboard Adjustable Output module allows the light output and input wattage to be modified to meet site specific requirements, and also can allow a single fixture to be flexibly applied in many different applications.

Note: Specifications subject to change without notice. Actual performance may differ as a result of end-user environment and application.

# Autobahn Series ATB0

## Roadway Lighting

### ORDERING INFORMATION

Example: ATB0 30LEDE10 MVOLT R2

Series	Performance Packages	Voltage	Optics
<b>ATB0</b> Autobahn LED Roadway	<b>10BLEDE70</b> 10B Chips, 700mA Driver <b>10BLEDE10</b> 10B Chips, 1050mA Driver <b>10BLEDE15</b> 10B Chips, 1500mA Driver <b>20BLEDE53</b> 20B Chips, 525mA Driver <b>20BLEDE70</b> 20B Chips, 700mA Driver <b>20BLEDE10</b> 20B Chips, 1050mA Driver <b>20BLEDE13</b> 20B Chips, 1300mA Driver <b>20BLEDE15</b> 20B Chips, 1500mA Driver <b>30BLEDE70</b> 30B Chips, 700mA Driver <b>30BLEDE85</b> 30B Chips, 850mA Driver <b>30BLEDE10</b> 30B Chips, 1050mA Driver <b>30BLEDE13</b> 30B Chips, 1300mA Driver <b>30BLEDE15<sup>1</sup></b> 30B Chips, 1500mA Driver	<b>MVOLT</b> Multi-volt, 120-277V <b>347</b> 347V <b>480</b> 480V	<b>R2</b> Roadway Type II <b>R3</b> Roadway Type III <b>R4</b> Roadway Type IV <b>R5</b> Roadway Type V

Options		
<u>Color Temperature (CCT)</u> <b>(Blank)</b> 4000K CCT, 70 CRI Min. <b>3K</b> 3000K CCT, 70 CRI Min. <b>5K</b> 5000K CCT, 70 CRI Min.	<b>UMS-XX</b> 8" Horizontal Arm for Square Pole, Painted to match Fixture <b>UMR-GALV</b> 8" Horizontal Arm for Round Pole, Galvanized <b>UMS-GALV</b> 8" Horizontal Arm for Square Pole, Galvanized	<b>Notes</b> 1 Not available in 347 or 480V. 2 Not available with DM, ML or NR. 3 Not available with DM or ML options. Not available with 10BLED packages. 4 Not available with AO, DM or P7 options. 5 Dimming Schedule and light level information required from the customer in order to configure product. Contact Infrastructure Technical Support to proceed.
<u>Paint</u> <b>(Blank)</b> Gray (Standard) <b>BK</b> Black <b>BZ</b> Bronze <b>DDB</b> Dark Bronze <b>GI</b> Graphite <b>WH</b> White	<u>Controls</u> <b>(Blank)</b> 3 Pin NEMA Photocontrol Receptacle (Standard) <b>P7<sup>2</sup></b> 7 Pin Photocontrol Receptacle (Dimmable Driver Included) <b>NR</b> No Photocontrol Receptacle <b>AO<sup>3</sup></b> Field Adjustable Output <b>DM</b> 0V-10V Dimmable Driver (Controls by others) <b>ML<sup>4,5</sup></b> Multi-Level Dimming <b>PCSS<sup>1</sup></b> Solid State Lighting Photocontrol (120-277V) <b>PCLL</b> Solid State Long Life Photocontrol <b>SH</b> Shorting Cap	
<u>Surge Protection</u> <b>(Blank)</b> Standard 10kV/5kA SPD <b>20</b> 20kV/10KA SPD <b>MP<sup>1</sup></b> MOV Pack <b>IL<sup>1</sup></b> SPD with Indicator Light	<u>Packaging</u> <b>(Blank)</b> Single Unit (Standard) <b>JP</b> Job Pack (42/Pallet)	
<u>Terminal Block</u> <b>(Blank)</b> Terminal Block (Standard) <b>T2</b> Wired to L1 & L2 Positions		
<u>Misc.</u> <b>BL</b> External Bubble Level <b>HS</b> House-Side Shield <b>NL</b> Nema Label <b>XL</b> Not CSA Certified <b>UMR-XX</b> 8" Horizontal Arm for Round Pole, Painted to match Fixture		



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**Warranty** Five-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomerResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomerResources/Terms_and_conditions.aspx)  
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# Autobahn Series ATB0

## Roadway Lighting

### PERFORMANCE PACKAGE

Performance Package	Drive Current (mA)	Input Watts	Optic	4000K CCT		LLD @ 25°C			
				Delivered Lumens	Efficacy (LPW)	50k Hours	75k Hours	100k Hours	
10B	700	25	R2	2994	120	0.98	0.98	0.97	
	1000	37		4293	116	0.98	0.98	0.97	
	1500	54		5688	105	0.97	0.97	0.96	
	700	25	R3	3009	120	0.98	0.98	0.97	
	1000	37		4313	117	0.98	0.98	0.97	
	1500	54		5742	106	0.97	0.97	0.96	
	700	25	R4	2992	120	0.98	0.98	0.97	
	1000	37		4232	114	0.98	0.98	0.97	
	1500	54		5653	105	0.97	0.97	0.96	
	700	25	R5	3065	123	0.98	0.98	0.97	
	1000	37		4422	120	0.98	0.98	0.97	
	1500	54		5844	108	0.97	0.97	0.96	
20B	525	36	R2	4638	129	0.98	0.98	0.97	
	700	48		5956	124	0.98	0.98	0.97	
	1000	71		8506	120	0.98	0.98	0.97	
	1300	87		9922	114	0.96	0.94	0.92	
	1500	99		11038	111	0.95	0.92	0.90	
	525	36	R3	4704	131	0.98	0.98	0.97	
	700	48		6114	127	0.98	0.98	0.97	
	1000	71		8606	121	0.98	0.98	0.97	
	1300	87		10065	116	0.96	0.94	0.92	
	1500	99		11181	113	0.95	0.92	0.90	
	525	36	R4	4676	130	0.98	0.98	0.97	
	700	48		6022	125	0.98	0.98	0.97	
	1000	72		8569	119	0.98	0.98	0.97	
	1300	87		10053	116	0.96	0.94	0.92	
	1500	99		11160	113	0.95	0.92	0.90	
	525	36	R5	4869	135	0.98	0.98	0.97	
	700	48		6287	131	0.98	0.98	0.97	
	1000	71		8880	125	0.98	0.98	0.97	
	1300	87		10397	120	0.96	0.94	0.92	
	1500	99		11593	117	0.95	0.92	0.90	
	30B	700	70	R2	9174	131	0.98	0.98	0.97
		850	83		10457	126	0.98	0.98	0.97
		1000	105		12414	118	0.96	0.96	0.95
		1300	126		14964	119	0.96	0.94	0.92
1500		145	16251		112	0.94	0.91	0.89	
700		70	R3	8893	127	0.98	0.98	0.97	
850		83		10825	130	0.98	0.98	0.97	
1000		105		12748	121	0.96	0.96	0.95	
1300		126		14850	118	0.96	0.94	0.92	
1500		145		16193	112	0.94	0.91	0.89	
700		70	R4	8971	128	0.98	0.98	0.97	
850		83		10589	128	0.98	0.98	0.97	
1000		105		12782	122	0.96	0.96	0.95	
1300		126		14889	118	0.96	0.94	0.92	
1500		145		16463	114	0.94	0.91	0.89	
700		70	R5	9329	133	0.98	0.98	0.97	
850		83		11209	135	0.98	0.98	0.97	
1000		105		13296	127	0.96	0.95	0.94	
1300		126		15254	121	0.96	0.94	0.92	
1500		145		16871	116	0.94	0.91	0.89	

**Note:** Information shown above is based on 4000K nominal system data. Individual fixture performance may vary. To calculate 3000K lumen values, multiply the 4000K lumens by .93. Specifications subject to change without notice.

ATB0 LLD Multiplier	15°C	20°C	25°C	30°C	35°C	40°C
	1.02	1.01	1	0.98	0.97	0.95

To calculate the LLD for a temperature other than 25°C, multiply the LLD @ 25°C (shown in the performance package table) by the LLD multiplier for the selected temperature.



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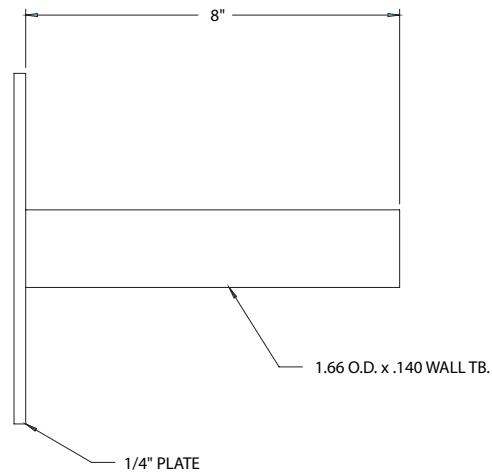
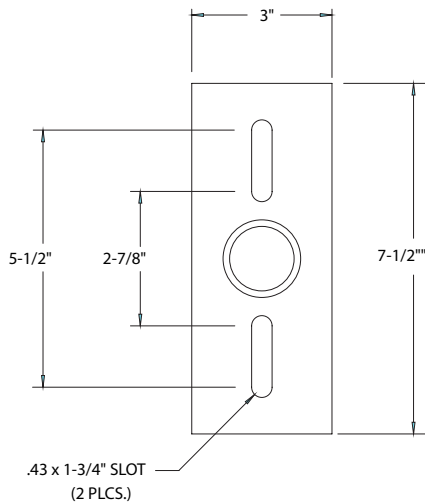
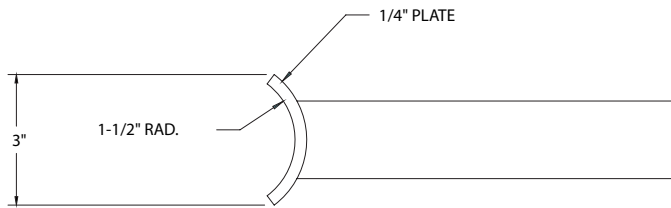
Please contact your sales representative for the latest product information. **Packet Page #375**

# Autobahn Series ATB0

## Roadway Lighting

### UMR POLE ADAPTOR

RECOMMENDED FOR USE WITH POLES OF 4" DIAMETER OR SMALLER



### UMS POLE ADAPTOR



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Consistent with LEED® goals & Green Globes™ criteria for light pollution reduction

# Autobahn Series ATBM Roadway

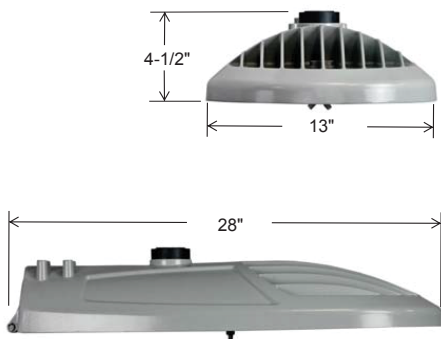
## PRODUCT OVERVIEW



### Applications:

- Residential streets
- Parking lots
- High speed roadways

### DIMENSIONS



Effective Projected Area (EPA)  
The EPA for the ATBM is 0.3 sq. ft.,  
Approx. Wt. = 21 lbs. (9.5 kg)

### STANDARDS

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

Color temperatures of  $\leq 3000\text{K}$  must be specified for International Dark-Sky Association certification.

Rated for  $-40^{\circ}\text{C}$  to  $40^{\circ}\text{C}$  ambient

CSA Certified to U.S. and Canadian standards

Complies with ANSI: C136.2, C136.10, C136.14, C136.31, C136.15, C136.37

### Features:

#### OPTICAL

Same Light: Performance is comparable to 150W – 250W HPS

White Light: Correlated color temperature - 4000K, 70 CRI minimum, 3000K, 70 CRI minimum or optional 5000K, 70 CRI minimum.

IP66 rated borosilicate glass optics ensure longevity and minimize dirt depreciation. Unique IP66 rated LED light engines provide 0% uplight and restrict backlight to within sidewalk depth, providing optimal application coverage and optimal pole spacing.

Available distributions are Type II, III, IV, & V roadway distributions.

#### ELECTRICAL

Expected Life: LED light engines are rated  $>100,000$  hours at  $25^{\circ}\text{C}$ , L70.

Electronic driver has an expected life of 100,000 hours at a  $25^{\circ}\text{C}$  ambient.

Lower Energy: Saves an expected 40-60% over comparable HID luminaires.

Robust Surge Protection: Three different surge protection options provide a minimum of ANSI C136.2 10kV/5kA protection. 20kV/10kA surge protection is also available.

#### MECHANICAL

Includes standard AEL lineman-friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easy leveling at installation.

Rugged die-cast aluminum housing and door are polyester powder-coated for durability and corrosion resistance. Rigorous five-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5000 hours exposure to salt fog chamber (operated per ASTM B117).

Mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter. The 2-bolt and optional 4 bolt clamping mechanism provide 3G vibration rating per ANSI C136.

The Wildlife shield is cast into the housing (not a separate piece).

#### CONTROLS

NEMA 3 pin photocontrol receptacle is standard, with the Acuity designed ANSI standard 5 pin and 7 pin receptacles optionally available.

Premium solid state locking-style photocontrol – PCSS (10 year rated life) Extreme long life solid state locking-style photocontrol – PCL1 (20 year rated life).

Extreme long life solid state locking-style photocontrol with on demand remote on/off control - PCCC (15 year rated life).

Optional onboard Adjustable Output module allows the light output and input wattage to be modified to meet site specific requirements, and also can allow a single fixture to be flexibly applied in many different applications.

# Autobahn Series ATBM

## Roadway

### ORDERING INFORMATION

Example: ATBM A MVOLT R2

Series	Performance Packages	Voltage	Optics	Mounting
<b>ATBM</b> Autobahn LED Roadway	<b>A</b> 7,000 lumens <b>B</b> 8,000 lumens <b>C</b> 9,000 lumens <b>D</b> 11,600 lumens <b>E</b> 13,400 lumens <b>F</b> 15,700 lumens <b>G</b> 16,600 lumens <b>H</b> 17,400 lumens	<b>MVOLT</b> Multi-volt, 120-277V <b>347</b> 347V <b>480</b> 480V	<b>R2</b> Roadway Type II <b>R3</b> Roadway Type III <b>R4</b> Roadway Type IV <b>R5</b> Roadway Type V	<b>(Blank)</b> 2 Bolt Mounting <b>4B</b> 4 Bolt Mounting

Options			
<u>Color Temperature (CCT)</u> <b>(Blank)</b> 4000K CCT, 70 CRI Min. <b>3K</b> 3000K CCT, 70 CRI Min. <b>5K</b> 5000K CCT, 70 CRI Min.	<u>Control Options</u> <b>(Blank)</b> 3 Pin NEMA Photocontrol Receptacle <b>P5</b> 5 Pin Photocontrol Receptacle (dimnable driver included) <sup>2</sup> <b>P7</b> 7 Pin Photocontrol Receptacle (dimnable driver included) <sup>2</sup> <b>NR</b> No Photocontrol Receptacle <sup>3</sup> <b>AO</b> Field Adjustable Output <sup>4</sup> <b>DM</b> 0-10V Dimmable Driver <sup>5</sup> <b>PCSS</b> Solid-State Lighting Photocontrol <sup>6</sup> <b>PCLL</b> Solid-State Long Life Photocontrol <b>PCCC</b> Solid-State Long Life Photocontrol with remote control on/off <sup>7</sup> <b>SH</b> Shorting Cap	<u>Accessories</u> <b>ATBMHSS</b> House Side Shield <b>ATBMLTS</b> Light Trespass Shield <b>RKATBMMVOLTSPD</b> ATBM Acuity SPD Replacement Kit MVOLT <b>RKATBMHVSPD</b> ATBM Acuity SPD Replacement Kit 347/480V <b>RKATBMMVOLTMP</b> ATBM MOV Pack Replacement Kit <b>RKATBMMVOLTIL</b> ATBM IL SPD Replacement Kit	<u>Paint</u> <b>(Blank)</b> Gray <b>BK</b> Black <b>BZ</b> Bronze <b>DDB</b> Dark Bronze <b>GI</b> Graphite <b>WH</b> White
<u>Surge Protection</u> <b>(Blank)</b> Acuity SPD <b>20</b> 20kV/10KA SPD <sup>8</sup> <b>MP</b> MOV Pack <sup>1</sup> <b>IL</b> SPD with Indicator Light <sup>1</sup>	<u>Packages</u> <b>(Blank)</b> Standard Pack <b>JP</b> Job Pack (36/pallet)		<u>Miscellaneous Options</u> <b>HSS</b> House Side Shield <b>NL</b> NEMA Label Indicating Wattage <b>XL</b> Not CSA Certified – No Terminal Block Cover

#### Notes:

- 1 Not available with G and H performance packages.
- 2 Dimmable Driver included. Not available with AO, DM or NR.
- 3 Not available with P5, P7.
- 4 Not available with DM, P5 or P7.
- 5 Controls by others. Not available with AO.
- 6 MVOLT only.
- 7 Not available with PCSS or PCLL.
- 8 Not available with G & H packages at 347/480 volts.



AEL Headquarters, 3825 Columbus Road, Granville, OH 43023  
 www.americanelectriclighting.com  
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**Warranty** Five-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/CustomResources/Terms\\_and\\_conditions.aspx](http://www.acuitybrands.com/CustomResources/Terms_and_conditions.aspx)  
 Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

Please contact your sales representative for the latest product information. Page # 878

ATBM

# Autobahn Series ATBM

## Roadway

### PERFORMANCE PACKAGE

Performance Package	Distribution	4000 K CCT			LLD @ 25°C		
		Lumens	Input Watts	LPW	50K Hours	75K Hours	100K Hours
A	R2	7,114	60	118	89	84	80
	R3	7,024		117			
	R4	6,958		116			
	R5	7,469		124			
B	R2	8,090	70	115	89	84	80
	R3	8,016		114			
	R4	7,924		113			
	R5	8528		121			
C	R2	9031	81	112	89	84	80
	R3	8,942		111			
	R4	8,827		110			
	R5	9,517		118			
D	R2	11,769	95	124	90	87	84
	R3	11,690		123			
	R4	11,534		121			
	R5	12,388		130			
E	R2	13,601	115	118	90	87	84
	R3	13,416		117			
	R4	13,323		116			
	R5	14,263		124			
F	R2	15,932	133	120	90	86	83
	R3	15,741		118			
	R4	15,476		116			
	R5	16,691		125			
G	R2	17,102	150	114	90	86	83
	R3	16,974		113			
	R4	16,635		111			
	R5	17,938		119			
H	R2	18,085	164	111	90	86	83
	R3	17,929		110			
	R4	17,439		107			
	R5	18,966		116			

**Note:** Information shown above is based on 4000K nominal system data. Individual fixture performance may vary. Specifications subject to change without notice.



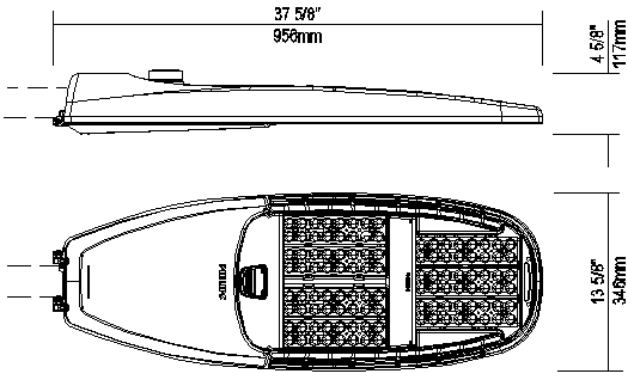
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Please contact your sales representative for the Product Page #070.

ATBM



EPA: 0.92 sq ft / weight: 27.3 lb (12.4 kg)  
 Note: 3D image may not represent color or option selected.  
 Logos above include link, click to access.

Qty	1	Luminaire	RFL-215W96LED4K-G2-R3M-UNV-DMG-RCD-GY3
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**Description of Components:**

**Housing:** Made of a low copper die cast Aluminum alloy (A360), 0.100" (2.5mm) minimum thickness. Fits on a 1.66" (42mm) O.D. (1.25" NPS), 1.9" (48mm) O.D. (1.5" NPS) or 2 3/8" (60mm) O.D. (2" NPS) by 7" (178mm) minimum long tenon. Comes with 2 zinc plated clamp fixed by 4 zinc plated hexagonal bolts 3/8 16 UNC for ease of installation. Provides an easy step adjustment of +/- 5° tilt in 2.5° increments. A quick release, tool less entry, hinged, removable door opens downward to provide access to electronic components and to a terminal block. Door is secured to prevent accidental dropping or disengagement. A clearance of 17" (432mm) at the rear is required in order to remove the door. Complete with a bird guard protecting against birds and similar intruders and an ANSI label to identify wattage and source (both included in box).

**Light Engine:** Composed of 4 main components: **Heat Sink / LED Module / Optical System / Driver**

Electrical components are RoHS compliant, IP66 sealed light engine.

LEDs tested by ISO 17025-2005 accredited lab in accordance with IESNA LM-80 guidelines in compliance with EPA ENERGY STAR, extrapolations in accordance with IESNA TM-21. Metal core board ensures greater heat transfer and longer lifespan.

**Heat Sink:** Built in the housing, designed to ensure high efficacy and superior cooling by natural vertical convection air flow pattern always close to LEDs and driver optimising their efficiency and life. Product does not use any cooling device with moving parts (only passive cooling). Wide openings enable natural cleaning and removal of dirt and debris. Entire luminaire is rated for operation in ambient temperature of -40°C / -40°F up to +50°C / +122°F.

**LED Module:** Composed of 96 high-performance white LEDs. Color temperature as per ANSI/NEMA bin Neutral White, 4000 Kelvin nominal (3985K +/- 275K or 3710K to 4260K), CRI 70 Min. 75 Typical.

**Optical System:** 0% uplight and U0 per IESNA TM-15.

**Driver:** High power factor of 90% minimum. Electronic driver, operating range 50/60 Hz. Auto-adjusting universal voltage input from 120 to 277 VAC rated for both application line to line or line to neutral, Class I, THD of 20% max. **Driver comes with dimming compatible 0-10 volts.**

The current supplying the LEDs will be reduced by the driver if the driver experiences internal overheating as a protection to the LEDs and the electrical components. Output is protected from short circuits, voltage overload and current overload. Automatic recovery after correction. Standard built-in driver surge protection of 2.5kV (min).

**Driver Options: (DMG) Integrated Feature,** Dimming compatible 0-10 volts. For applicable warranty, certification and operation guide see Philips Lumec dimmable luminaire specification document for unapproved device installed by other. To get document, click on this link: [Specification document](http://www.lumec.com/Lumec3DV2/PdfWebLink/Philips%20Lumec%20dimmable%20luminaire%20specification%20document%20for%20unapproved%20device%20installed%20by%20other.pdf) or go on web site on this address: <http://www.lumec.com/Lumec3DV2/PdfWebLink/Philips Lumec dimmable luminaire specification document for unapproved device installed by other.pdf>

**Surge Protector: Integrated Feature,** Surge protector tested in accordance with ANSI/IEEE C62.45 per ANSI/IEEE C62.41.2 Scenario I Category C High Exposure 10kV/10kA waveforms for Line-Ground, Line-Neutral and Neutral-Ground, and in accordance with U.S. DOE (Department of Energy) MSSLC (Municipal Solid-State Street Lighting Consortium) model specification for LED roadway luminaires electrical immunity requirements for High Test Level 10kV / 10kA.

**Luminaire Options: (RCD) Integrated Feature,** Receptacle with 5 pins enabling dimming, can be used with a twist-lock control device or photoelectric cell or a shorting cap. Use of photocell or shorting cap is required to ensure proper illumination.

**Luminaire Useful Life:** Refer to IES files for energy consumption and delivered lumens for each option. Based on ISTMT in-situ thermal testing in accordance with UL1598 and UL8750, Philips System Reliability Tool. Philips Advance data LM-80/TM-21 data, expected to reach 100,000 + hours with >L70 lumen maintenance @ 25°C. Luminaire Useful Life accounts for LED lumen maintenance AND all of these additional factors including: LED life, driver life, PCB substrate, solder joints, on/off cycles, burning hours and corrosion.

Miscellaneous

**Description of Components:**

**Wiring:** The connection of the luminaire is done using a terminal block connector 600V, 85A for use with #2-14 AWG. wires from the primary circuit, located inside the housing. Due to the inrush current that occurs with electronic drivers, recommend using a 10Amp time delay fuse to avoid unwanted fuse blowing (false tripping) that can occur with normal or fast acting fuses.

**Hardware:** All exposed screws shall be complete with Ceramic primer-seal basecoat to reduce seizing of the parts and offers a high resistance to corrosion. All seals and sealing devices are made and/or lined with EPDM and/or silicone and/or rubber.

**Finish:** Color to be **medium grey (GY3)** and in accordance with the AAMA 2603 standard. Application of polyester powder coat paint (4 mils/100 microns) with  $\pm 1$  mils/24 microns of tolerance. The Thermosetting resins provides a discoloration resistant finish in accordance with the ASTM D2244 standard, as well as luster retention in keeping with the ASTM D523 standard and humidity proof in accordance with the ASTM D2247 standard.

The surface treatment achieves a minimum of 3000 hours for salt spray resistant finish in accordance with testing performed and per ASTM B117 standard.

**LED products manufacturing standard:** The electronic components sensitive to electrostatic discharge (ESD) such as light emitting diodes (LEDs) are assembled in compliance with IEC61340-5-1 and ANSI/ESD S20.20 standards so as to eliminate ESD events that could decrease the useful life of the product.

**Vibration Resistance:** The RFL meets the **ANSI C136.31**, American National Standard for Roadway Luminaire Vibration specifications for Bridge/overpass applications (Tested for 3G over 100 000 cycles).

The RFL meets the **California Test 611, Testing durability of mast arm mounted luminaires**, specifications (a 2 000 000 cycles test).

**Service Tag:** Each individual luminaire is uniquely identifiable, thanks to the Philips Service tag application. With a simple scan of a QR code, placed on the inside of the mast door, you gain instant access to the luminaire configuration, making installation and maintenance operations faster and easier, no matter what stage of the luminaire's lifetime. Just download the APP and register your product right away. For more details visit: [philips.com/servicetag](http://philips.com/servicetag)

**Warranty:** Luminaire comes with a warranty of 10 years on product and finish. See <http://www.usa.lighting.philips.com/support/support/warranty> for details.

**Certifications and Compliance:** cULus Listed for Canada and USA. Luminaire meets DOE and MSSLC Model Specification for LED Roadway Luminaires. Large RoadFocus luminaires are DesignLights Consortium qualified. Luminaire complies with or exceeds the following ANSI C136 standards: .2, .3, .10, .14, .15, .22, .25, .31, .37, .41.

**Web site information details:** Click on any specific information details you need: / [cULus Certification](#) / [Warranty](#)

LED Wattage and Lumen Values: 3000K

Ordering Code	Total LEDs	LED current (mA)	Average system watts (W)	Type R2S			Type R2M			Type R3S			Type R3M		
				delivered lumens	Efficacy (LPW)	BUG rating	delivered lumens	Efficacy (LPW)	BUG rating	delivered lumens	Efficacy (LPW)	BUG rating	delivered lumens	Efficacy (LPW)	BUG rating
RFL-145W64LED3K-G2	64	700	137	16813	122.7	B3-U0-G2	16458	120.1	B3-U0-G3	16181	118.1	B2-U0-G3	16127	117.7	B3-U0-G3
RFL-90W80LED3K-G2	80	350	93	11541	124.5	B2-U0-G2	11297	121.8	B2-U0-G2	11107	119.8	B2-U0-G2	11070	119.4	B2-U0-G2
RFL-135W80LED3K-G2	80	530	136	16601	121.7	B3-U0-G2	16251	119.1	B3-U0-G3	15977	117.1	B2-U0-G3	15924	116.7	B3-U0-G3
RFL-180W80LED3K-G2	80	700	174	21016	120.8	B3-U0-G2	20572	118.2	B3-U0-G3	20226	116.2	B2-U0-G3	20159	115.9	B3-U0-G3
RFL-160W96LED3K-G2	96	530	161	19921	123.9	B3-U0-G2	19501	121.3	B3-U0-G3	19172	119.3	B2-U0-G3	19109	118.9	B3-U0-G3
RFL-215W96LED3K-G2	96	700	207	25219	121.8	B3-U0-G3	24687	119.3	B3-U0-G3	24271	117.3	B2-U0-G4	24190	116.9	B3-U0-G3
RFL-335W96LED3K-G2	96	1050	323	35094	108.7	B4-U0-G4	34354	106.4	B4-U0-G4	33775	104.6	B3-U0-G4	33663	104.2	B4-U0-G4
RFL-190W112LED3K-G2	112	530	188	23241	123.9	B3-U0-G3	22751	121.3	B3-U0-G3	22368	119.3	B3-U0-G4	22294	118.9	B3-U0-G3
RFL-241W112LED3K-G2	112	700	243	29422	121.1	B3-U0-G3	28801	118.5	B3-U0-G3	28316	116.5	B3-U0-G4	28222	116.1	B3-U0-G4
RFL-350W112LED3K-G2	112	950	340	37731	111.1	B4-U0-G4	36935	108.8	B4-U0-G4	36313	107.0	B3-U0-G5	36193	106.6	B4-U0-G4

Ordering Code	Total LEDs	LED current (mA)	Average system watts (W)	Type 4			Type 5		
				delivered lumens	Efficacy (LPW)	BUG rating	delivered lumens	Efficacy (LPW)	BUG rating
RFL-145W64LED3K-G2	64	700	137	16210	118.3	B2-U0-G3	16851	123.0	B4-U0-G2
RFL-90W80LED3K-G2	80	350	93	11127	120.0	B2-U0-G2	11567	124.8	B4-U0-G2
RFL-135W80LED3K-G2	80	530	136	16006	117.3	B2-U0-G3	16639	121.9	B4-U0-G2
RFL-180W80LED3K-G2	80	700	174	20263	116.5	B3-U0-G4	21064	121.1	B5-U0-G3
RFL-160W96LED3K-G2	96	530	161	19207	119.5	B3-U0-G4	19967	124.2	B5-U0-G3
RFL-215W96LED3K-G2	96	700	207	24315	117.5	B3-U0-G4	25277	122.1	B5-U0-G3
RFL-335W96LED3K-G2	96	1050	323	33836	104.8	B3-U0-G5	35175	108.9	B5-U0-G4
RFL-190W112LED3K-G2	112	530	188	22408	119.5	B3-U0-G4	23295	124.2	B5-U0-G3
RFL-241W112LED3K-G2	112	700	243	28368	116.7	B3-U0-G4	29489	121.4	B5-U0-G4
RFL-350W112LED3K-G2	112	950	340	36379	107.2	B3-U0-G5	37818	111.4	B5-U0-G4

Field Adjustable Wattage (FAWS) Multiplier Chart

FAWS Position	Typical Delivered Lumens Multiplier	Typical System wattage
1	0.31	0.28
2	0.53	0.50
3	0.62	0.58
4	0.70	0.67
5	0.78	0.75
6	0.83	0.81
7	0.89	0.87
8	0.92	0.91
9	0.96	0.95
10	1.00	1.00

Note: Typical value accuracy +/- 5%

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout - contact Applications: outdoorlighting.applications@philips.com  
 Note: Some data may be scaled based on tests of similar. But not identical luminaires

LED Wattage and Lumen Values: 4000K

Ordering Code	Total LEDs	LED current (mA)	Average system watts (W)	Type R2S			Type R2M			Type R3S			Type R3M		
				delivered lumens	Efficacy (LPW)	BUG rating	delivered lumens	Efficacy (LPW)	BUG rating	delivered lumens	Efficacy (LPW)	BUG rating	delivered lumens	Efficacy (LPW)	BUG rating
RFL-145W64LED4K-G2	64	700	137	17820	130.1	B3-U0-G2	17444	127.3	B3-U0-G3	17150	125.2	B2-U0-G3	17093	124.8	B3-U0-G3
RFL-90W80LED4K-G2	80	350	93	12232	131.9	B3-U0-G2	11974	129.1	B2-U0-G2	11772	127.0	B2-U0-G2	11733	126.5	B2-U0-G2
RFL-135W80LED4K-G2	80	530	136	17596	129.0	B3-U0-G2	17224	126.2	B3-U0-G3	16934	124.1	B2-U0-G3	16878	123.7	B3-U0-G3
RFL-180W80LED4K-G2	80	700	174	22275	128.0	B3-U0-G3	21805	125.3	B3-U0-G3	21438	123.2	B3-U0-G4	21367	122.8	B3-U0-G3
RFL-160W96LED4K-G2	96	530	161	21115	131.4	B3-U0-G2	20669	128.6	B3-U0-G3	20321	126.4	B2-U0-G3	20254	126.0	B3-U0-G3
RFL-215W96LED4K-G2	96	700	207	26730	129.1	B3-U0-G3	26166	126.4	B3-U0-G3	25725	124.3	B3-U0-G4	25640	123.9	B3-U0-G3
RFL-335W96LED4K-G2	96	1050	323	37197	115.2	B4-U0-G4	36412	112.7	B4-U0-G4	35799	110.8	B3-U0-G5	35680	110.5	B4-U0-G4
RFL-190W112LED4K-G2	112	530	188	24634	131.3	B3-U0-G3	24114	128.6	B3-U0-G3	23708	126.4	B3-U0-G4	23629	126.0	B3-U0-G3
RFL-241W112LED4K-G2	112	700	243	31185	128.3	B4-U0-G3	30527	125.6	B3-U0-G4	30013	123.5	B3-U0-G4	29913	123.1	B3-U0-G4
RFL-350W112LED4K-G2	112	950	340	39992	117.8	B4-U0-G4	39148	115.3	B4-U0-G4	38489	113.4	B3-U0-G5	38361	113.0	B4-U0-G4

Ordering Code	Total LEDs	LED current (mA)	Average system watts (W)	Type 4			Type 5		
				delivered lumens	Efficacy (LPW)	BUG rating	delivered lumens	Efficacy (LPW)	BUG rating
RFL-145W64LED4K-G2	64	700	137	17181	125.4	B2-U0-G3	17861	130.4	B4-U0-G2
RFL-90W80LED4K-G2	80	350	93	11794	127.2	B2-U0-G2	12260	132.2	B4-U0-G2
RFL-135W80LED4K-G2	80	530	136	16965	124.3	B2-U0-G3	17636	129.2	B4-U0-G2
RFL-180W80LED4K-G2	80	700	174	21477	123.4	B3-U0-G4	22326	128.3	B5-U0-G3
RFL-160W96LED4K-G2	96	530	161	20358	126.7	B3-U0-G4	21163	131.7	B5-U0-G3
RFL-215W96LED4K-G2	96	700	207	25772	124.5	B3-U0-G4	26791	129.4	B5-U0-G3
RFL-335W96LED4K-G2	96	1050	323	35864	111.0	B3-U0-G5	37282	115.4	B5-U0-G4
RFL-190W112LED4K-G2	112	530	188	23751	126.6	B3-U0-G4	24690	131.6	B5-U0-G3
RFL-241W112LED4K-G2	112	700	243	30067	123.7	B3-U0-G5	31256	128.6	B5-U0-G4
RFL-350W112LED4K-G2	112	950	340	38559	113.6	B3-U0-G5	40084	118.1	B5-U0-G4

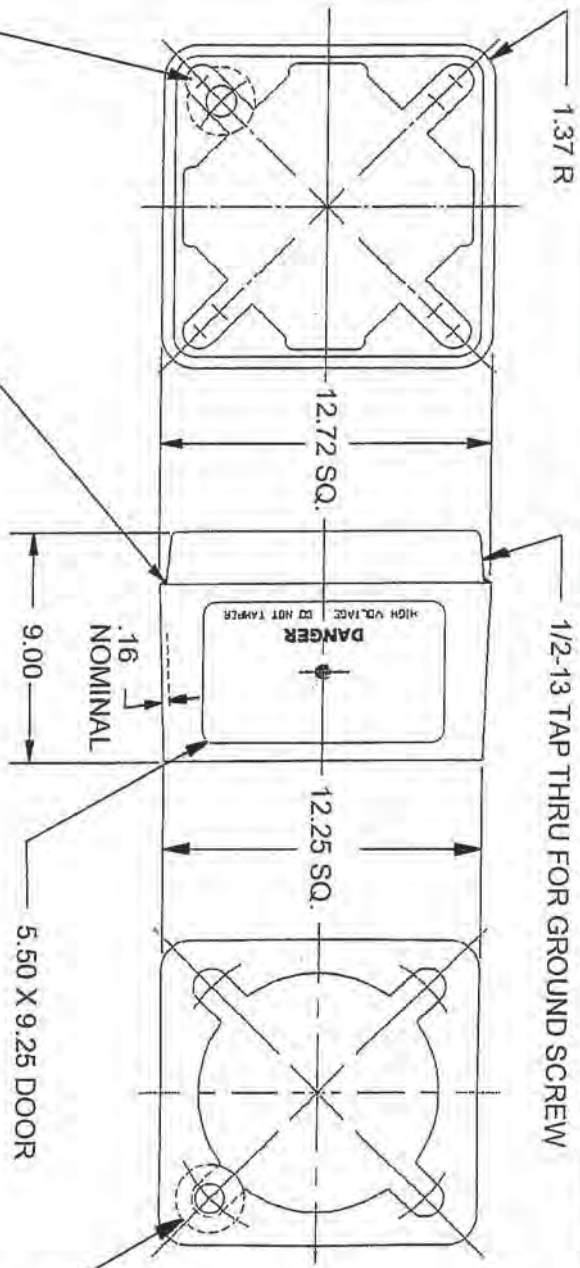
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1	0.31	0.28
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5	0.78	0.75
6	0.83	0.81
7	0.89	0.87
8	0.92	0.91
9	0.96	0.95
10	1.00	1.00

Note: Typical value accuracy +/- 5%

Actual performance may vary due to installation variables including optics, mounting/ceiling height, dirt depreciation, light loss factor, etc.; highly recommended to confirm performance with a layout - contact Applications: [outdoorlighting.applications@philips.com](mailto:outdoorlighting.applications@philips.com)  
 Note: Some data may be scaled based on tests of similar. But not identical luminaires





MIG 4043 WIRE 1/4" WITH APPROX. 5" OF WELD ON EACH OF THE (4) INTERNAL CORNERS

**BOTTOM BOLT CIRCLE** 10" DIA. THRU 12 3/4" DIA. B.C. 4 PLS EQ. SPACED

USE 2 3/4" DIA. X 1/2" TK. STEEL WASHERS

**TOP BOLT CIRCLE** 10 1/2" DIA. THRU 12" DIA. B.C. 4 PLS. EQ. SPACED

USE 2 3/4" DIA. X 1/2" TK. STEEL WASHERS

DOOR SUPPLIED / BLANK OR LOGO IN ALUMINUM OR NON-METALLIC, INJECTION MOLDED ABS

ST'D. DOOR STRAP # 1041 / USE 1/4-20 X 1" LONG S.S. SCREW / HEAD TYPE CUSTOMER OPTION.

ALL WASHERS TO BE ZINC MECHANICAL COATED PER ASTM 695-85 CLASS 50

356 T-6 ALUMINUM ALLOY / S.S. WHEELABRATED FINISH CHEMICAL AND PHY. CERTS TO BE SUPPLIED WITH EACH SHIPMENT

ADHESIVE BREAKAWAY AND CAUTION LABELS TO APPEAR ON INSIDE WALL OPPOSITE DOOR OPENING

AKRON FOUNDRY COMPANY  
TRANSFORMER BASE

4-24-06 TB6-9

MATERIAL MELTED AND MANUFACTURED IN THE U.S.A. CASTINGS PRODUCED IN THE U.S.A.

TOP: JOB# 0962 BOTTOM: JOB# 0805 DOOR: JOB# 2220 DOOR JOB# 2464 ASS'Y: JOB# 2006

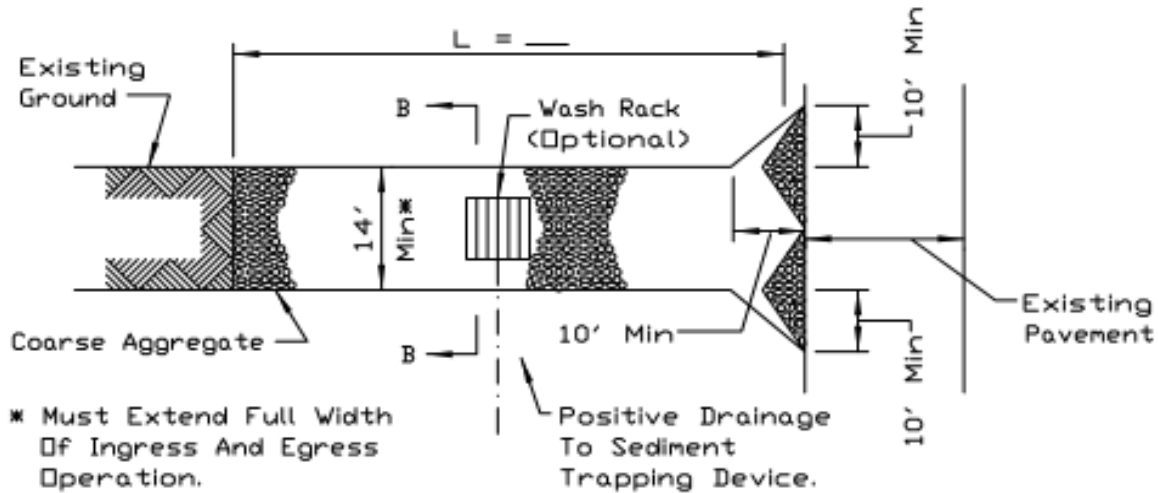
ORDER "P" AFTER PART NUMBER WHEN A NON-METALLIC DOOR APPLICATION IS REQUIRED



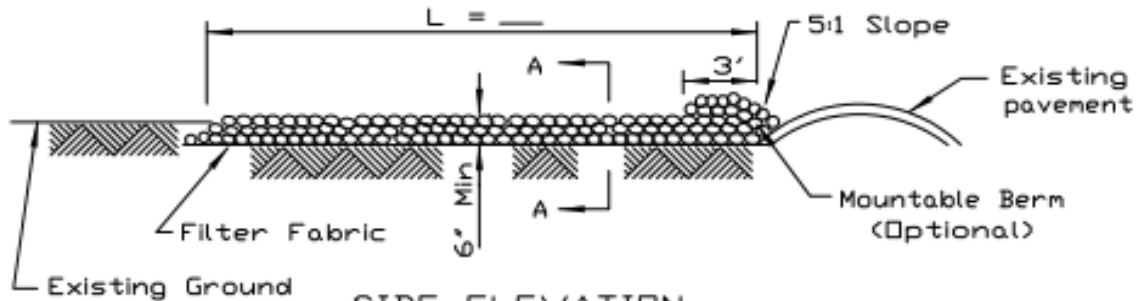
# SECTION 700- GRADING, LANDSCAPING & EROSION CONTROL DETAILS

STABILIZED CONSTRUCTION ENTRANCE 1  
STABILIZED CONSTRUCTION ENTRANCE 2  
DITCH CHECKS  
ROCK CHECK DAM  
SILT FENCE  
INLET PROTECTION  
CONCRETE WASHOUT FACILITY  
EROSION CONTROL BLANKET INSTALLATION

# STABILIZED CONSTRUCTION ENTRANCE PLAN



PLAN VIEW



SIDE ELEVATION

**NOTES:**

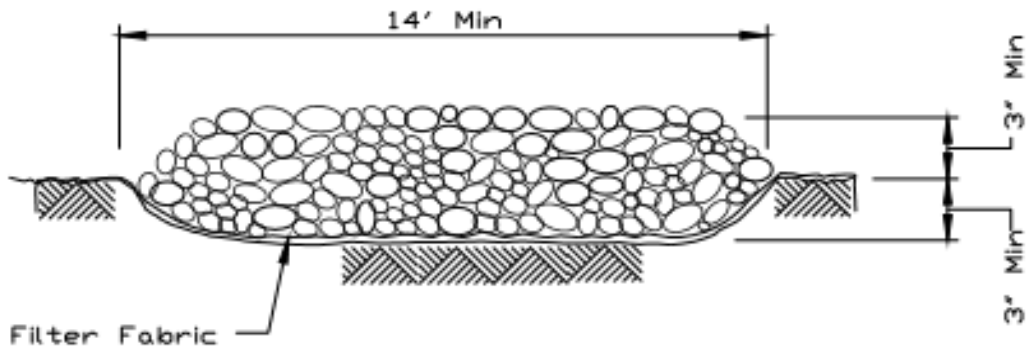
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table I or 2, Class I, II or IV and shall be placed over the cleared area prior to the placing of rock.
2. Rock or reclaimed concrete shall meet one of the following IDOT coarse aggregate gradation, CA-1, CA-2, CA-3 or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. Any drainage facilities required because of washing shall be constructed according to manufacturers specifications.
4. If wash racks are used they shall be installed according to the manufacturer's specifications.

REFERENCE	
Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____

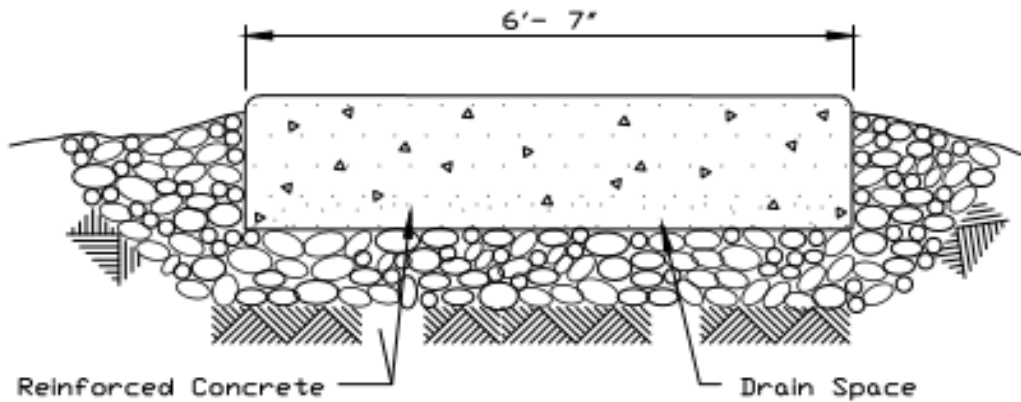


STANDARD DWG. NO.
IL-630
SHEET 1 OF 2
DATE 8-18-94

# STABILIZED CONSTRUCTION ENTRANCE PLAN



SECTION A-A



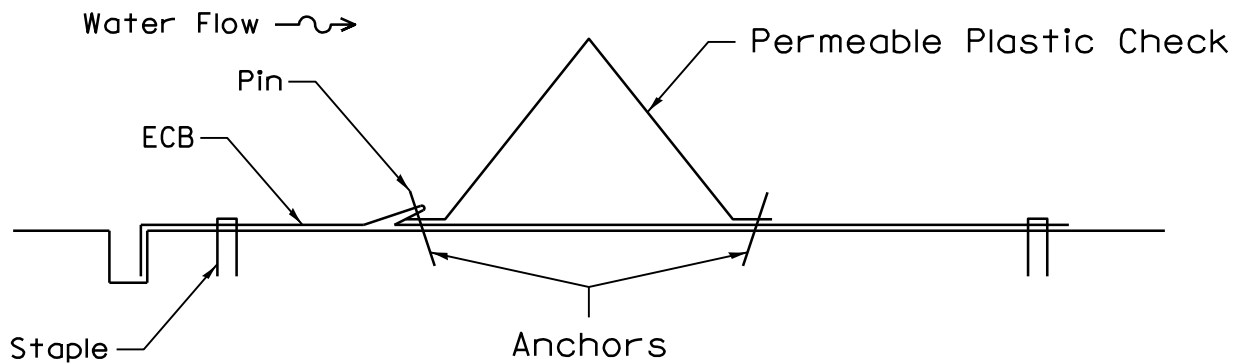
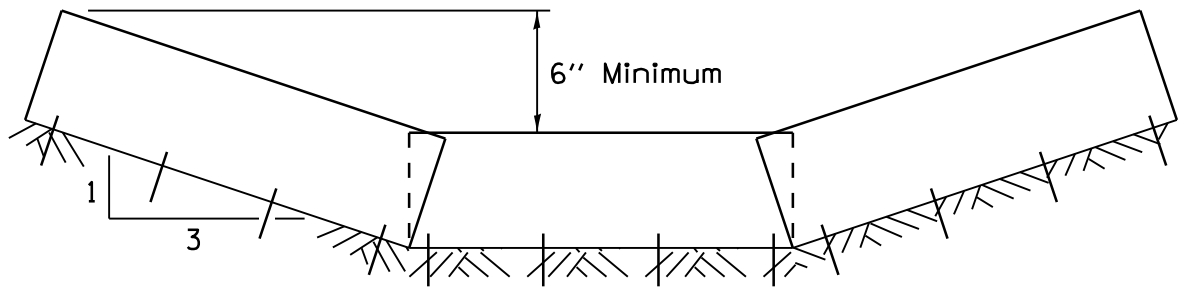
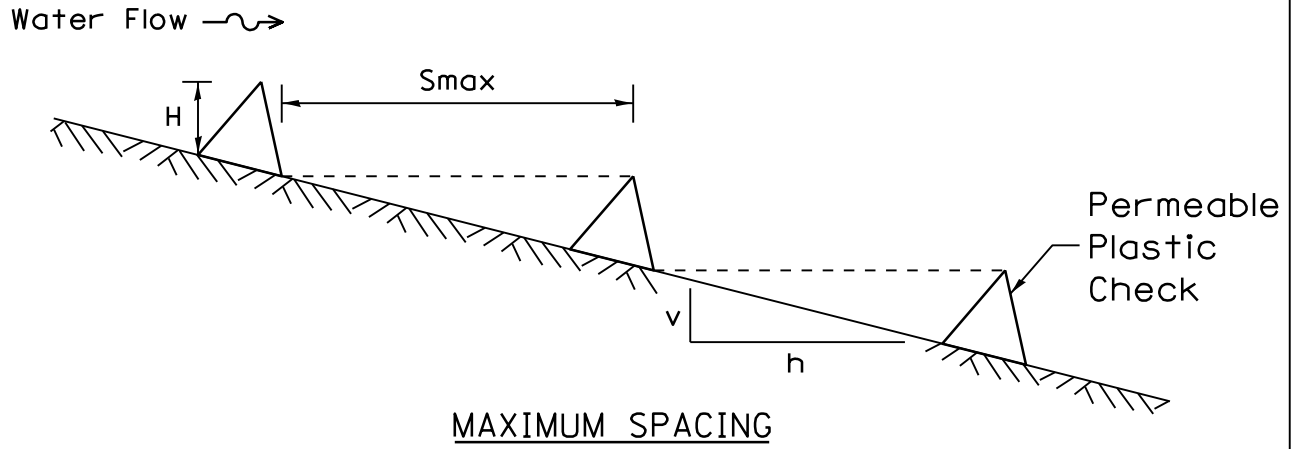
SECTION B-B

REFERENCE  
 Project \_\_\_\_\_  
 Designed \_\_\_\_\_ Date \_\_\_\_\_  
 Checked \_\_\_\_\_ Date \_\_\_\_\_  
 Approved \_\_\_\_\_ Date \_\_\_\_\_



STANDARD DWG. NO.  
 IL-630  
 SHEET 2 OF 2  
 DATE 8-18-94

# PLASTIC PERMEABLE CHECKS



REFERENCE

Project \_\_\_\_\_  
 Designed \_\_\_\_\_ Date \_\_\_\_\_  
 Checked \_\_\_\_\_ Date \_\_\_\_\_  
 Approved \_\_\_\_\_ Date \_\_\_\_\_



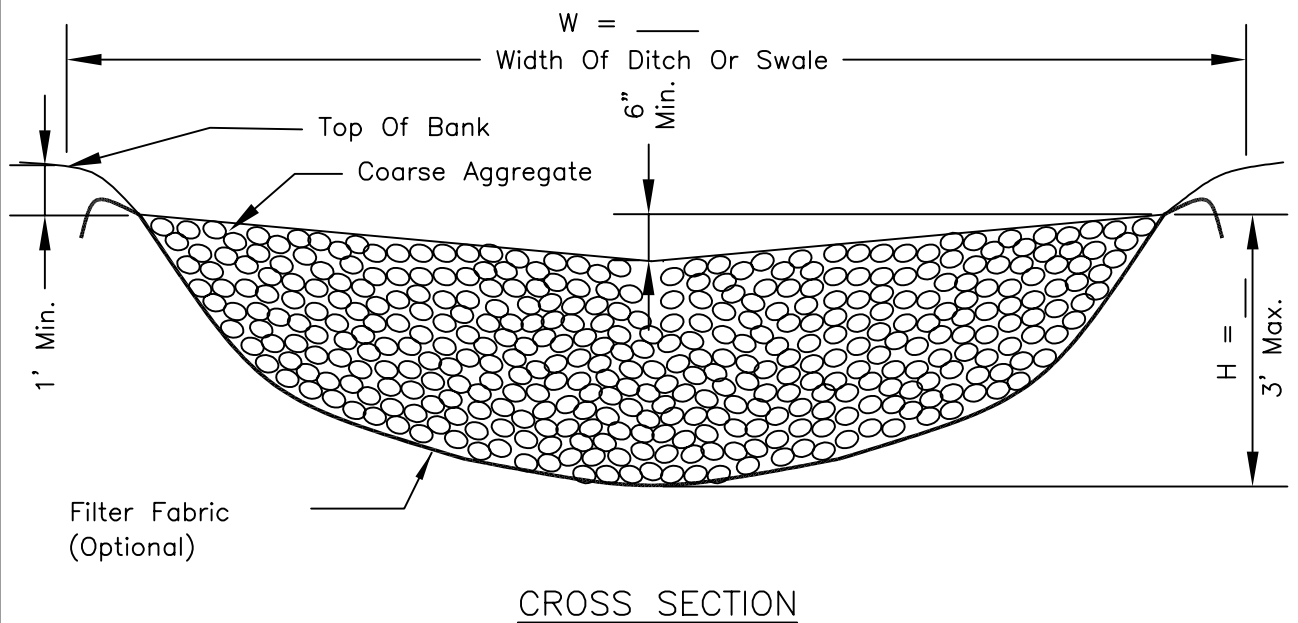
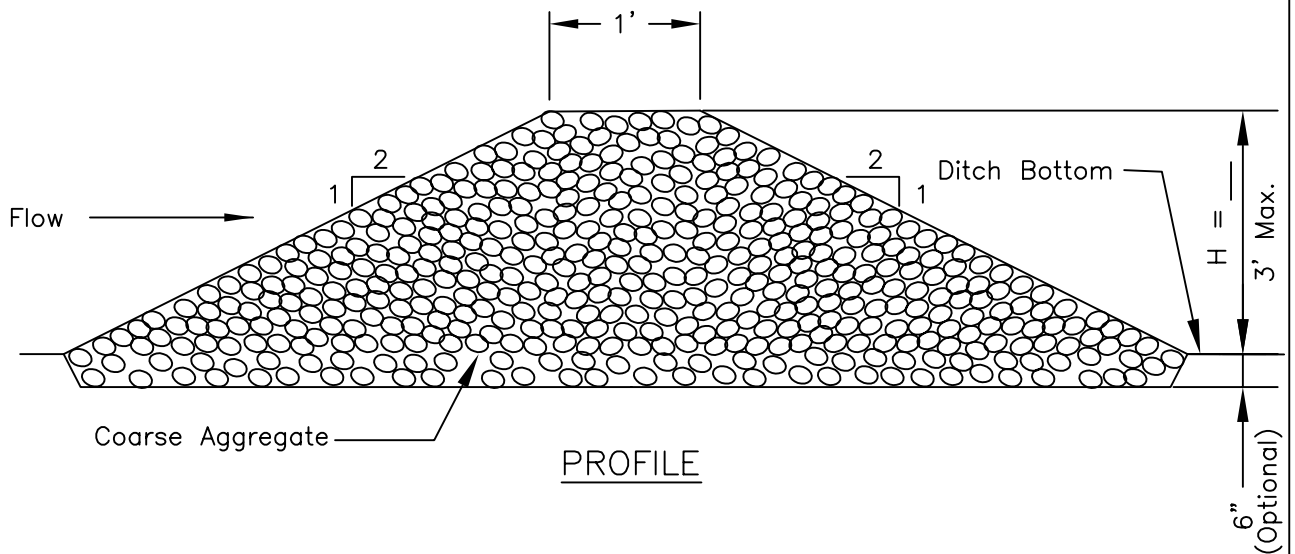
STANDARD DWG. NO.

IUM-514

SHEET 1 OF 1

Packet Page #309-11

# ROCK CHECK DAM - COARSE AGGREGATE



**NOTES:**

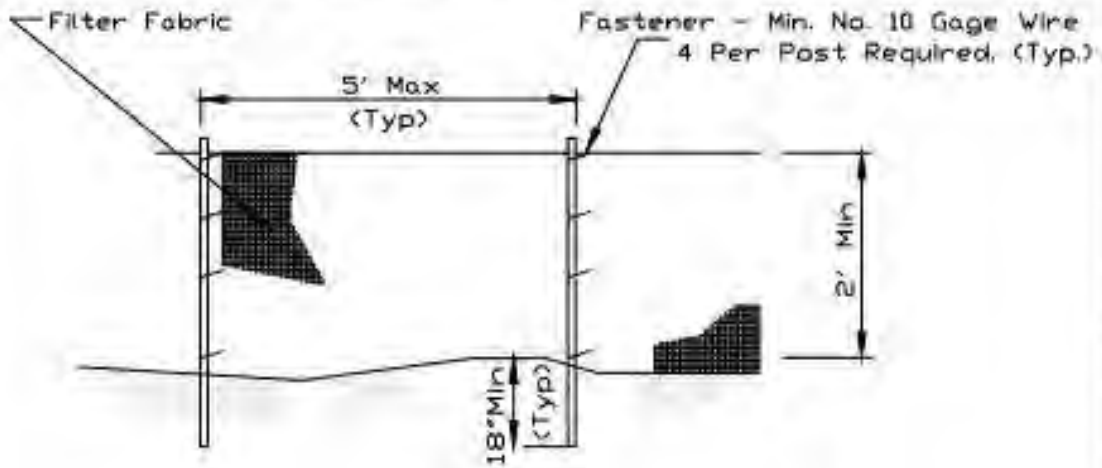
1. Filter fabric shall meet the requirements of material specification 592 GEOTEXTILE, Table 1 or 2, Class I, II, or IV and shall be placed over the cleared area prior to the placing of rock.
2. Coarse aggregate shall meet one of the following IDOT gradations, CA-1, CA-2, CA-3, or CA-4 and be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
3. For added stability, the base of the dam may be keyed 6 inches into the soil.
4. See plans for spacing of dams and H dimensions.
5. Drainage area to each dam shall be less than 2 acres.
6. Use ROCK CHECK DAM-RIPRAP IL-605R for drainage areas of 2 to 10 acres.

REFERENCE	
Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____

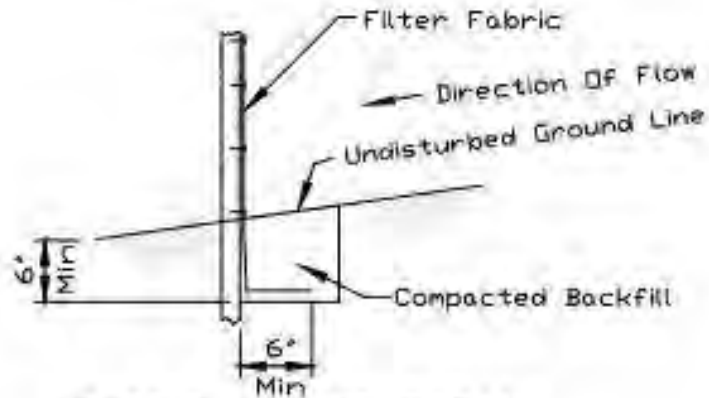


STANDARD DWG. NO.  
 IL-605CA  
 SHEET 1 OF 1  
 DATE 1-29-99

# SILT FENCE PLAN



ELEVATION



FABRIC ANCHOR DETAIL

**NOTES:**

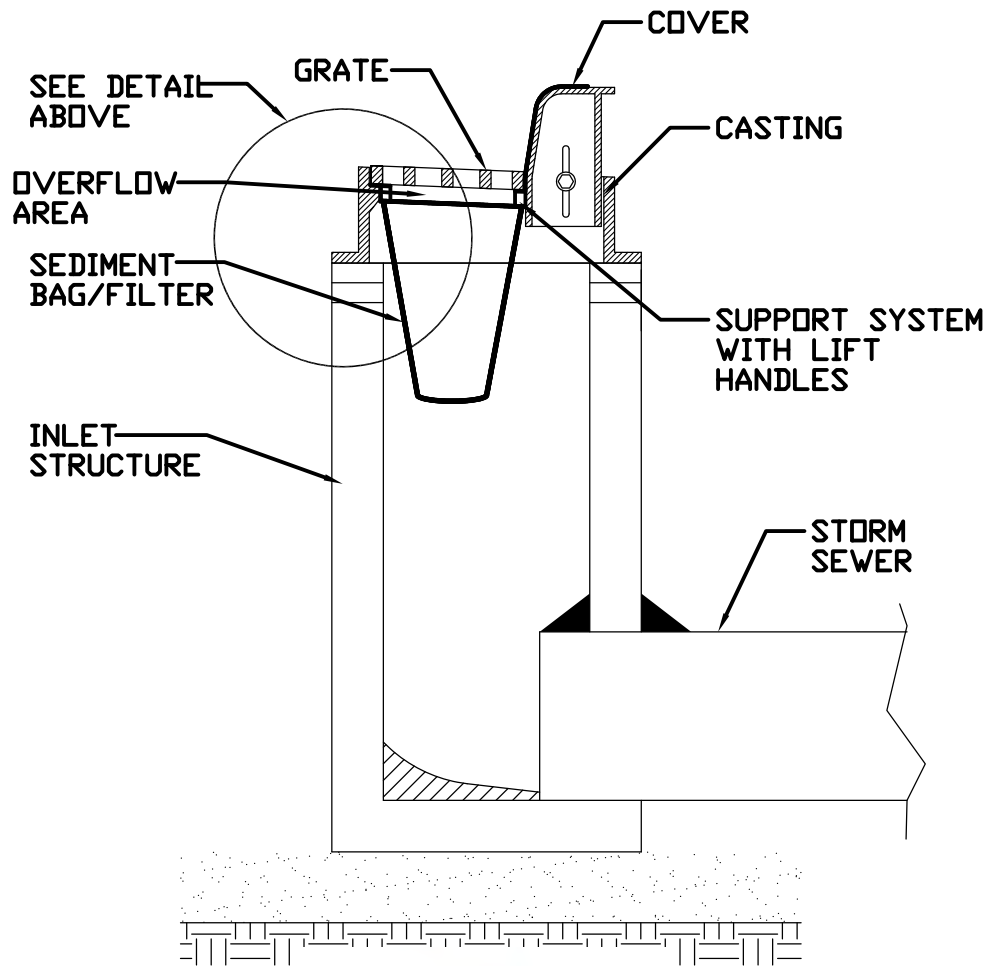
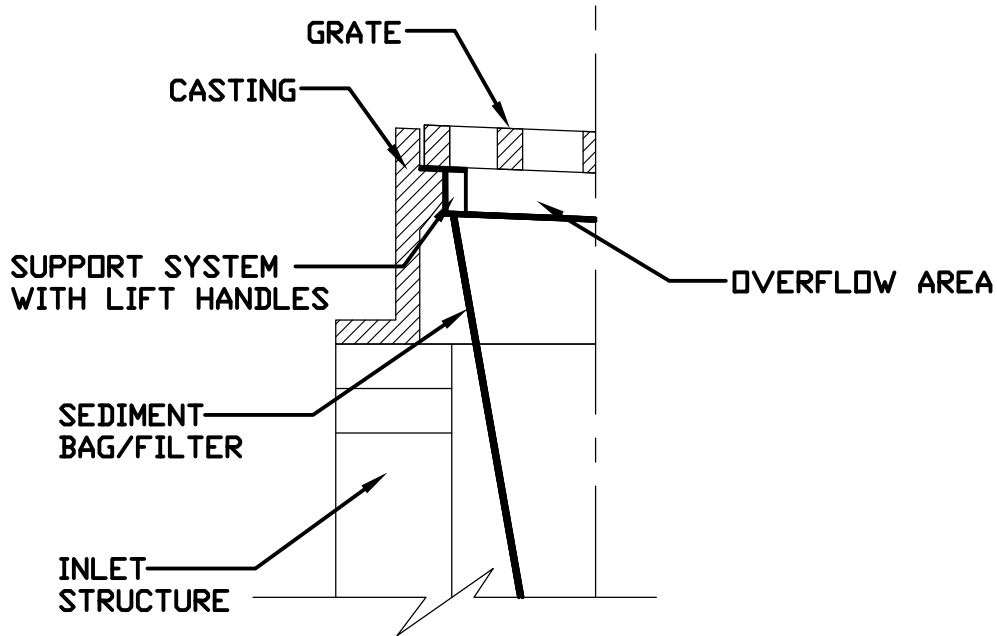
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile based upon performance needed.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 2' x 2' nominal size.

REFERENCE	
Project	_____
Designed	_____ Date _____
Checked	_____ Date _____
Approved	_____ Date _____



STANDARD DWG NO  
IUM-620  
SHEET 1 OF 8  
DATE 3-16-18

# INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION

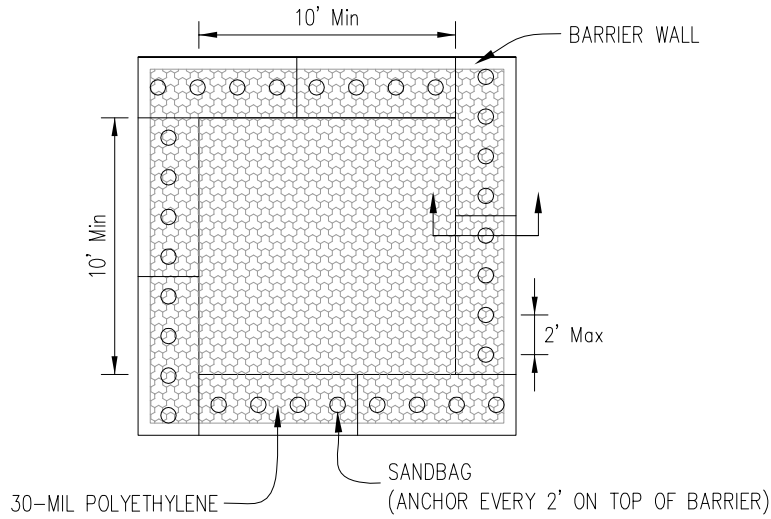


REFERENCE  
 Project \_\_\_\_\_  
 Designed \_\_\_\_\_ Date \_\_\_\_\_  
 Checked \_\_\_\_\_ Date \_\_\_\_\_  
 Approved \_\_\_\_\_ Date \_\_\_\_\_

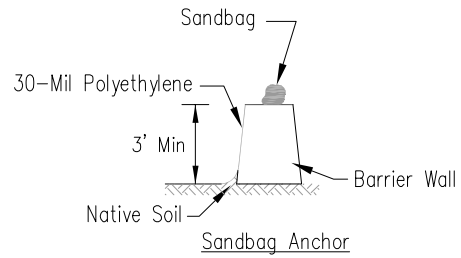


STANDARD DWG. NO.  
**IUM-561D**  
 SHEET 1 OF 1  
 Packet Page #392  
 DATE 01-11-11

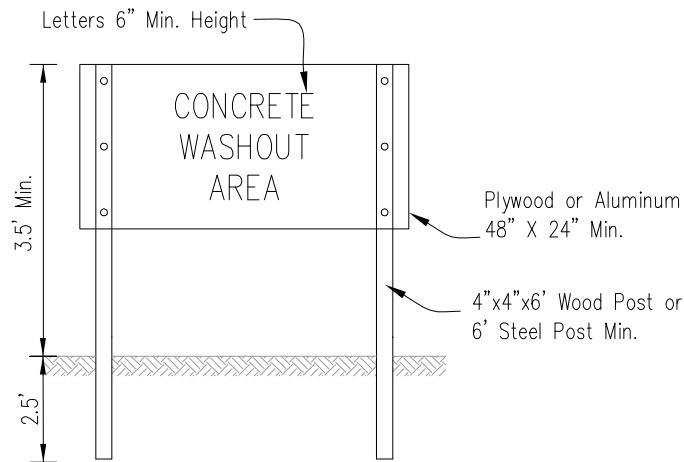




PLAN VIEW



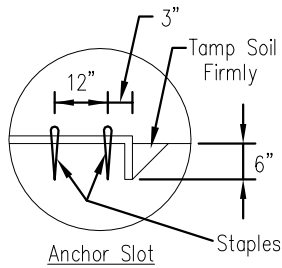
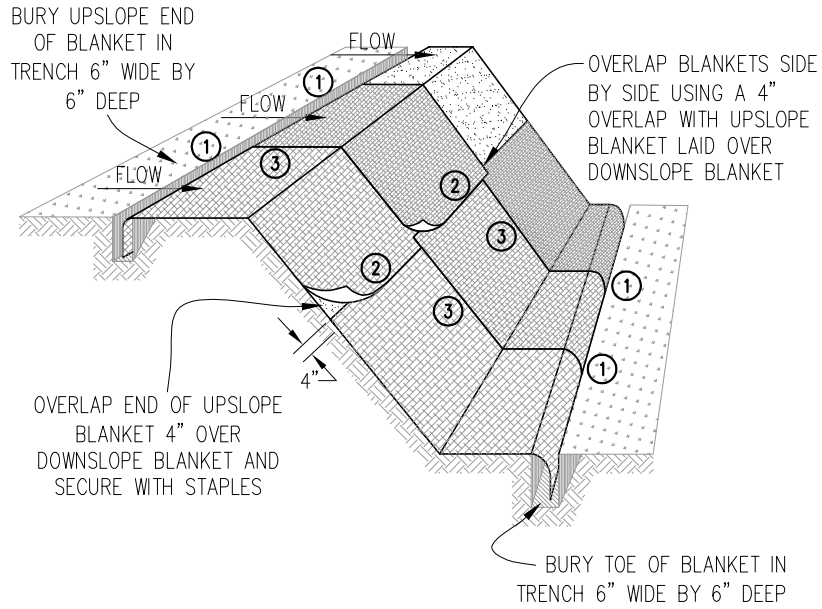
BARRIER WALL ANCHOR SECTION



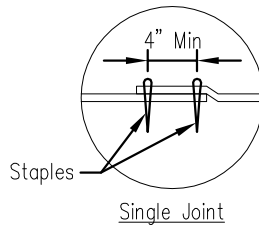
SIGN DETAIL

NOTES:

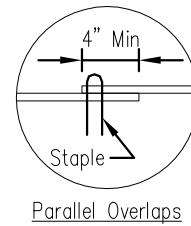
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.



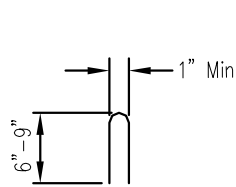
DETAIL 1



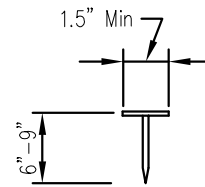
DETAIL 2



DETAIL 3



STAPLE DETAIL



PUSH PIN DETAIL

NOTES:

1. Staples shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 staples per s.y. of material. This equates to 200 staples with stiched blanket and 400 stapels with non-stiched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.



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## **REQUEST FOR COUNCIL ACTION**

Referred to Council: November 5, 2020  
Subject: Ordinance of Sale of Surplus Property  
Staff Contact: Alan Lange, Public Works Director  
Department: Public Works

**TITLE:** An Ordinance Declaring Property Owned by the City of Wood Dale Surplus for the Purpose of Selling

### **COMMITTEE ACTION FOLLOW-UP ITEMS:**

N/A

### **RECOMMENDATION:**

Staff recommends an ordinance declaring property owned by the City of Wood Dale surplus for the purpose of selling.

### **BACKGROUND:**

It is the responsibility of the Public Works Department to preserve a well maintained fleet for the purpose of City activities. As such, several vehicles were identified as being past their useful life and are recommended for replacement or removal from the City's inventory. The vehicles are listed and described below.

- #402-146 – 2014 Ford AWD Interceptor SUV – Purchased on 07/28/2014 and taken out of service on 10/06/2020 when vehicle was replaced by a 2020 model. No other Department has use for this vehicle. Vehicle Evaluation Score of 19 out of 60. No known mechanical issues. Moderate wear and tear.
- #406-148 – 2014 Ford AWD Interceptor SUV – Purchased on 07/28/2014 and taken out of service on 08/28/2020 when water pump was found to be leaking. As replacement vehicle was already delivered, water pump was not replaced. No other Department has use for this vehicle. Vehicle Evaluation Score of 17 out of 60. No known mechanical issues other than leaking water pump. Moderate wear and tear.
- #419-095 – 2009 Ford Police Interceptor – Purchased on 07/13/2009 until replaced by car 406-148. Reassigned as Citizens Patrol Car until taken out of

service. No other Department has use for this vehicle. Vehicle Evaluation Score of 16 out of 60. No known mechanical issues. Moderate wear and tear.

- #414-066 – 2009 Ford F-150XL 4x2 Supercab Pickup – Purchased on 05/18/2006 and used as Community Service Officer’s Vehicle until being replaced by car 412-12A. No other Department has use for this vehicle. Vehicle Evaluation Score of 23 out of 60. No know mechanical issues. Moderate wear and tear.
- #411-12B – 2012 Ford XLT 4x4 Supercab Pickup – Purchased on 07/26/2012 and used as Community Service Officer’s Vehicle until being replaced by car 411-205. No other Department has use for this vehicle. Vehicle Evaluation Score of 31 out of 60. No know mechanical issues. Moderate wear and tear.

**ANALYSIS:**

The vehicles will be placed for auction on Public Surplus with the following minimum bids:

- 402-146 - \$1,000
- 406-148 - \$1,000
- 419-095 - \$1,000
- 414-066 - \$1,000
- 411-12B - \$1,000

Bids will be submitted for a period of 14 days with the vehicles being awarded to the highest bidder. Public Surplus will take a 7% administrative fee which will come out of the proceeds from the sale. The revenue will be redistributed to the Capital Equipment Replacement Fund (CERF) for the future purchase of new vehicles and equipment.

**DOCUMENTS ATTACHED**

- ✓ Ordinance of Sale
- ✓ 402-146 Vehicle Info
- ✓ 402-146 Vehicle Scoring Sheet
- ✓ 406-148 Vehicle Info
- ✓ 406-148 Vehicle Scoring Sheet
- ✓ 419-095 Vehicle Info
- ✓ 419-095 Vehicle Scoring Sheet
- ✓ 414-066 Vehicle Info
- ✓ 414-066 Vehicle Scoring Sheet
- ✓ 411-12B Vehicle Info
- ✓ 411-12B Vehicle Scoring Sheet

**ORDINANCE NO. O-20-032**

**AN ORDINANCE DECLARING PROPERTY OWNED BY THE CITY OF WOOD DALE  
SURPLUS FOR THE PURPOSE OF SELLING**

**WHEREAS**, in the opinion of at least a simple majority of the corporate authorities of the City of Wood Dale, it is no longer necessary or useful to or for the best interest of the City of Wood Dale, to retain ownership of the personal property hereinafter described; and

**WHEREAS**, it has been determined by the City Council of the City of Wood Dale to sell said personal property via the internet “Public Auction” website beginning after November 5, 2020; and

**NOW THEREFORE, BE IT ORDAINED BY THE CITY COUNCIL OF THE CITY OF WOOD DALE, DU PAGE COUNTY, ILLINOIS**, as follows:

**SECTION ONE:** That pursuant to 65 ILCS 5/11-76-4 of the Illinois Municipal Code, the City Council of the City of Wood Dale finds that the following described personal property:

<b>Vehicle</b>	<b>Inventory ID</b>	<b>VIN #</b>	<b>Min. Value</b>
2014 Ford AWD Interceptor SUV	402-146	1FM5K8AR4EGC60858	\$1000
2014 Ford AWD Interceptor SUV	406-148	1FM5K8AR2EGC60860	\$1000
2009 Ford Police Interceptor	419-095	2FAHP71VX9X145732	\$1000
2009 Ford F-150XL 4x2 Pickup	414-066	1FTRX12W66NB52824	\$1000
2012 Ford F-150XLT 4x4 Pickup	411-12B	1FTEX1EM1CFC37178	\$1000

now owned by the City of Wood Dale, is no longer necessary or useful to the City of Wood Dale and the best interests of the City will be served by its sale.

**SECTION TWO:** Pursuant to said 65 ILCS 5/11-76-4, the City Manager is hereby authorized and directed to sell the aforementioned personal property now owned by the City of Wood Dale via the internet “Public Auction” website to the highest bidder on said property.

**SECTION THREE:** That all Ordinances and Resolutions, or parts thereof, in conflict with the provisions of this Ordinance are, to the extent of such conflict, expressly repealed.

**SECTION FOUR:** No bid which is less than the minimum price set forth in the list of property to be sold shall be accepted except as authorized by the City Manager or his agent.

**SECTION FIVE:** That the City Clerk of the City of Wood Dale be and is directed hereby to publish this Ordinance in pamphlet form, pursuant to the statutes of the State of Illinois.

**SECTION SIX:** That the City Manager is hereby authorized and may direct "Public Surplus" to enter into agreement for the sale of said personal property. They will charge an administrative fee of 7% which will come out of the proceeds from the sale.

**SECTION SEVEN:** Upon payment of full auction price, the City Manager is hereby authorized and directed to convey the aforesaid personal property to the successful bidder.

**SECTION EIGHT:** That this Ordinance shall be in full force and effect from and after its passage, by a simple majority vote of the corporate authorities, and approval in the manner provided by law.

PASSED this **5<sup>th</sup> day of November, 2020.**

AYES: \_\_\_\_\_

NAYS: \_\_\_\_\_

ABSENT: \_\_\_\_\_

APPROVED this **5<sup>th</sup> day of November, 2020.**

SIGNED: \_\_\_\_\_  
Annunziato Pulice, Mayor

ATTEST: \_\_\_\_\_  
Lynn Curiale, City Clerk

Published in pamphlet form \_\_\_\_\_, 2020

**402-146**  
**2014 Ford AWD Interceptor SUV**

Mileage: 108,708/18,529 engine hours/ 13,746 idle hours  
VIN: 1FM5K8AR4EGC60858

This car was purchased on 07/28/2014 by the PD and put in-service as Squad #402-146. It spent its whole life as Car #402 and was taken out of service on 10/06/20 when its replacement was delivered. The PD has no further use for this vehicle and no other department in the City has a need for it. The City paid \$25,425.00 for the car and has spent another \$22,224.76 and 260.50 man hours repairing this vehicle. It has a Vehicle Evaluation score of 19 out of a possible 60 points (32%).

The car has no known mechanical issues at this time. The driver's seat cushion fabric is torn and the foam pad worn. The driver's door trim panel's armrest is torn. The body has many small dents and dings on the doors. The right front headlight housing is cracking due to UV exposure or possibly impact. There is rust around the lock cylinder on the rear liftgate. The front bumper cover no longer mates with the left fender properly.

**City of Wood Dale**  
**Public Works Department**  
**Vehicle Replacement Scoring Sheet**

<b>Vehicle # 402-146</b>	Months in Service	Age Points	Miles	Mileage Points
	74	4	108708	0
	Original Cost	Repair Cost	Repair Cost %	Repair Cost Points
	25,425.00	22,224.76	87	0
	# of Repair Orders	Mech. Cond Pts	Body Cond. Pts	Int. Cond. Pts
	81	4	6	5
	Maximum Points	Points for #	Notes from Vehicle Maintenance Staff	
	60	19		



**406-148**  
**2014 Ford AWD Interceptor SUV**

Mileage: 115,296/18,823 engine hours/ 13,696 idle hours  
VIN: 1FM5K8AR2EGC60860

This car was purchased on 07/28/2014 by the PD and put in-service as Squad #406-148. It spent its whole life as Car #406 and was taken out of service on 08/28/20 when it discovered that the water pump was leaking. Friendly Ford gave us a price of \$1,715.00 to replace the water pump. With the replacement vehicle already here, it was decided not to fix the car. The PD has no further use for this vehicle and no other department in the City has a need for it. The City paid \$25,425.00 for the car and has spent another \$17,144.40 and 270.50 man hours repairing this vehicle. It has a Vehicle Evaluation score of 17 out of a possible 60 points (28%).

Other than the leaking water pump, the car has no other known mechanical issues at his time. The driver's seat cushion fabric is torn and the foam pad worn. The driver's door trim panel's armrest is torn. The body has many small dents and dings on the doors. There is rust around the lock cylinder on the rear liftgate.

**City of Wood Dale**  
**Public Works Department**  
**Vehicle Replacement Scoring Sheet**

<b>Vehicle #</b> 406-148	Months in Service	Age Points	Miles	Mileage Points
	74	4	115,296	0
	Original Cost	Repair Cost	Repair Cost %	Repair Cost Points
	25,425.00	17,144.00	67	0
	# of Repair Orders	Mech. Cond Pts	Body Cond. Pts	Int. Cond. Pts
	90	1	6	6
	Maximum Points	Points for #	Notes from Vehicle Maintenance Staff	
	60	17		

**Car #419-095**  
**2009 Ford Police Interceptor**

Mileage: 89238.7 / 4194 hours  
VIN: 2FAHP71VX9X145732

This car was purchased on 7/13/2009 by the PD and was used as Car #406-095 until it was replaced by Car #406-148. The car was then reassigned as the Citizens Patrol Car #419-095 until it was taken out of service. The PD has no further use for this car and no other department has a need for it. The City paid \$21,581.00 for the car and has spent another \$16,410.44 and 360.75 man hours repairing this vehicle. It has a Vehicle Evaluation score of 16 out of a possible 60 points (27%).

The car has no known mechanical issues at this time, but when you first get in the car it seems to smell of antifreeze. It may need a heater core, although currently there is no fluid leaking inside the vehicle. The paint is peeling off the hood, roof, trunk lid, and right rear quarter panel. There is a large depression in the center of the trunk lid. There is a circular dent or series of dents around the antenna hole at the rear of the roof. There is rust on the left front fender and the inside bottom of all four doors. The driver's door interior panel is faded and/or scratched at the top and the rear deck is missing two plastic covers for the child seat anchor points.

**City of Wood Dale**  
**Public Works Department**  
**Vehicle Replacement Scoring Sheet**

<b>Vehicle #</b> 419-095	Months in Service	Age Points	Miles	Mileage Points
	135	0	89,238.7	2
	Original Cost	Repair Cost	Repair Cost %	Repair Cost Points
	21	21,581.00	76	0
	# of Repair Orders	Mech. Cond Pts	Body Cond. Pts	Int. Cond. Pts
	87	8	1	5
	Maximum Points	Points for #	Notes from Vehicle Maintenance Staff	
	60	16		

**Car #414-066**  
**2009 Ford F-150XL 4x2 Supercab Pick-up**

Mileage: 65604.1  
VIN: 1FTRX12W66NB52824

This truck was purchased on 5/18/2006 by the PD and was used as by the CSOs as Car #412-066 until it was replaced by Car #412-12A. The car was then reassigned as Emergency Response Vehicle #414-066. It is now being replaced by Car #412-12A which will be reassigned as Car #414-12A as soon as new Car #412-206 is put in service. The PD has no further use for this truck and no other department has a need for it. The City paid \$15,930.00 for the truck and has spent another \$8,875.15 and 347.50 man hours repairing this vehicle. It has a Vehicle Evaluation score of 23 out of a possible 60 points (38%).

The truck has no known mechanical issues at this time other than the tires showing signs of dry rotting. The interior is in fair to good condition. The pick-up body has rust on the right side in front of and behind the rear tire. The cab rocker panels on both sides show rust. There is minor damage to the front bumper and lower valance panel.

**City of Wood Dale**  
**Public Works Department**  
**Vehicle Replacement Scoring Sheet**

<b>Vehicle #</b> 414-066	Months in Service	Age Points	Miles	Mileage Points
	173	0	65,298	4
	Original Cost	Repair Cost	Repair Cost %	Repair Cost Points
	\$15,930.00	\$8,475.15	53	0
	# of Repair Orders	Mech. Cond Pts	Body Cond. Pts	Int. Cond. Pts
	55	7	5	7
	Maximum Points	Points for #	Notes from Vehicle Maintenance Staff	
	60	23		

**Car #411-12B**  
**2012 Ford F-150XLT 4x4 Supercab Pick-up**

Mileage: 68282.7  
VIN: 1FTEX1EM1CFC37178

This truck was purchased on 7/26/2012 by the PD and was used as by the CSOs as Car #411-12B. It is being replaced by Car #411-205 as soon as new car is put in service. The PD has no further use for this truck and no other department has a need for it. The City paid \$24,678.00 for the truck and has spent another \$7,581.30 and 179.00 man hours repairing this vehicle. It has a Vehicle Evaluation score of 31 out of a possible 60 points (52%).

The truck has no known mechanical issues at this time. The interior is in fair to good condition. The cab rocker panels on both sides show rust. There is minor damage under the front bumper to the air dam and lower valance. The rocker panels on both sides of the cab are rusted. There is some rust on the left front fender and under the cap on the left side of the pick-up body at the rear. There is minor damage to the right side of the truck from the front tire to the rear tire.

**City of Wood Dale**  
**Public Works Department**  
**Vehicle Replacement Scoring Sheet**

<b>Vehicle # 411-12B</b>	Months in Service	Age Points	Miles	Mileage Points
	99	2	67005	4
	Original Cost	Repair Cost	Repair Cost %	Repair Cost Points
	\$24,678.00	\$7,581.30	31	5
	# of Repair Orders	Mech. Cond Pts	Body Cond. Pts	Int. Cond. Pts
	62	8	4	8
	Maximum Points	Points for #	Notes from Vehicle Maintenance Staff	
	60	31		



**ORDINANCE NO. O-20-033**

**AN ORDINANCE OF THE CITY OF WOOD DALE, DUPAGE COUNTY, ILLINOIS,  
AMENDING ORDINANCE NO. O-20-002,  
AUTHORIZING THE ACQUISITION THROUGH CONDEMNATION  
OF A PARCEL COMMONLY KNOWN AS 310 E. IRVING PARK ROAD  
FOR THE PURPOSES OF ECONOMIC DEVELOPMENT**

**WHEREAS**, the City of Wood Dale (hereinafter referred to as the “City”) is a body politic and corporate, organized and existing pursuant to the Illinois Municipal Code, 65 ILCS 5/1-1-1 *et seq.*; and

**WHEREAS**, the City possesses the authority, pursuant to the Illinois Municipal Code, 65 ILCS 5/1-1-1 *et seq.*, to adopt ordinances pertaining to the public health, safety and welfare; and

**WHEREAS**, the City Council of the City (hereinafter referred to as the “City Council”) is the corporate authority for the City and is authorized by law to exercise all powers and to control the affairs of the City; and

**WHEREAS**, the City Council possesses full power and authority to approve and pass all necessary ordinances, resolutions, rules and regulations necessary for carrying into effect the objects for which the City was formed, in accordance with the Illinois Municipal Code; and

**WHEREAS**, the City is empowered to exercise the right of eminent domain by condemnation proceedings to acquire private property for public use, which includes property redevelopment, in accordance with 735 ILCS 30/5-5-5; and

**WHEREAS**, there exists a vacant parcel of land, with the common address of 310 E. Irving Park Road, Wood Dale, Illinois consisting of 25,398 square feet along Irving Park Road , (hereinafter referred to as the “Subject Property”); and

**WHEREAS**, the City ascertained the Owner of the Subject Property to be *310 Irving Park Property, LLC*, located at 6N565 Pine Street, Bensenville, Illinois (hereinafter referred to as the “Property Owner”); and

**WHEREAS**, the Subject Property was acquired by the Property Owner and the structure which existed on the Subject Property at the time of said acquisition was demolished by the Property Owner; and

**WHEREAS**, the Subject Property is currently zoned TCB, Town Center Business in the City’s Ordinance; and

**WHEREAS**, for purposes of property redevelopment, the City Council has determined that it is reasonable, necessary and in the public interest and welfare that the Subject Property bearing the common address of 310 E. Irving Park Road, Wood Dale, Illinois and which bears the P.I.N. 03-15-110-029, as legally described in Exhibit "A," attached hereto and incorporated herein by reference, should be acquired; and

**WHEREAS**, the City intends to acquire, own and control the Subject Property for the public purpose to be used for development, consistent with the Land Uses set forth in the City's Comprehensive Plan; and

**WHEREAS**, the City, by and through its Attorneys and Staff, has attempted in good faith to negotiate the purchase of the Subject Property by offering a price which is based upon information obtained from the City's Appraiser regarding the fair cash market value of the Subject Property; and

**WHEREAS**, the Property Owner has rejected the City's Offer, and, for this reason, the City has been unable to agree with the Property Owner concerning just compensation and good faith negotiations have been exhausted and have reached an impasse, as provided for by Illinois law.

NOW, THEREFORE, BE IT ORDAINED by the City Council of the City of Wood Dale, DuPage County, Illinois, in regular session assembled as follows:

SECTION ONE. The recitals set forth above are incorporated herein and made a part of this Ordinance.

SECTION TWO. The City Council has been informed of the history of negotiations to acquire the Subject Property and does hereby ratify all actions undertaken by the City Attorneys and Staff concerning the good faith negotiations for the acquisition of the Subject Property, and hereby finds that negotiations with the Property Owner have been exhausted and have reached an impasse, as defined by law.

SECTION THREE. It is reasonable, necessary and in the public interest and welfare that the City acquire, by condemnation, fee simple title to the Subject Property, legally described in Exhibit "A", for the purposes set forth herein.

SECTION FOUR. That the City, its Staff and its Attorneys, Bond Dickson & Conway, are hereby authorized to take the necessary steps by condemnation to acquire fee simple title to the Subject Property legally described in Exhibit "A."

SECTION FIVE. That this Ordinance shall be in full force and effect from and after its passage, approval and publication in pamphlet form as provided by law.

PASSED this 5th day of November, 2020

AYES: \_\_\_\_\_

NAYS: \_\_\_\_\_

ABSENT : \_\_\_\_\_

APPROVED this 5th day of November, 2020

SIGNED: \_\_\_\_\_  
Annunziato Pulice, Mayor

ATTEST: \_\_\_\_\_  
Lynn Curiale, City Clerk

Published in pamphlet form \_\_\_\_\_

**EXHIBIT A**

**LEGAL DESCRIPTION**  
**310 E. Irving Park Road**  
**PIN: 03-15-110-029**

LOT 1 IN FORREST'S THIRD SUBDIVISION, BEING A SUBDIVISION OF PART OF THE NORTHWEST QUARTER OF SECTION 15, TOWNSHIP 40 NORTH, RANGE 11 EAST OF THE THIRD PRINCIPAL MERIDIAN, ACCORDING TO THE PLAT THEREOF RECORDED SEPTEMBER 17, 1993 AS DOCUMENT R93209923, AND CERTIFICATE OF CORRECTION RECORDED NOVEMBER 8, 1995 AS DOCUMENT R95-157856, IN DUPAGE COUNTY, ILLINOIS.



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## **REQUEST FOR COUNCIL ACTION**

Referred to Council: November 5, 2020  
Subject: COVID-19 Stimulus  
Staff Contact: Brad Wilson, Finance Director  
Department: Finance

**TITLE:** Local COVID-19 Stimulus

### **COMMITTEE ACTION FOLLOW-UP ITEMS:**

n/a

### **RECOMMENDATION:**

Provide direction to staff as to which (if any) of the below options to pursue.

### **BACKGROUND:**

Earlier this year, as the COVID-19 crisis and associated restrictions were being implemented across the state the City implemented a number of items to lessen the burden to the residents and businesses. These items included waiving the fees for all vehicle stickers, waiving the fees for Commercial Occupancy Certificate program, and waived the fees for liquor license renewals.

**ANALYSIS:** As new restrictions are being put into place as the COVID-19 case numbers continue to rise, staff is looking at another round of local stimulus for the City Council to consider.

These ideas listed below are a combination of staff driven, observations of other towns, and suggestions from non-staff.

1. One time reduction of the water bill of roughly 10%

- a. Difficult to implement
  - b. Total cost of approximately \$80K
2. One time credit of \$20 on the water bill
  - a. Not difficult to implement
  - b. Total cost of approximately \$100K
  - c. Not proportionate
3. Refunding of a portion of Sales Tax to the restaurants
  - a. Amounts would vary by establishment
4. Provide each residential unit (house, condo, etc.) with a \$20 voucher to be used at a local restaurant
  - a. Would generate business for the restaurants
  - b. Would generate extra sales tax
  - c. Promote local businesses

Please understand this item has skipped committee discussion as restaurants are struggling and we wanted to act as quickly as we could. Specific numbers and examples can be vetted out at the meeting as part of the discussion.

**DOCUMENTS ATTACHED**

✓ None



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## **REQUEST FOR COUNCIL ACTION**

Referred to Council: November 5, 2020  
Subject: List of Bills  
Staff Contact: Brad Wilson, Finance Director  
Department: Finance

**TITLE:** List of Bills – 11/052020

### **RECOMMENDATION:**

The Finance Department recommends that the City Council approve bills for the 11/05/2020 City Council meeting in the amount of \$498,815.59.

### **BACKGROUND:**

<u>Fund</u>	<u>Amount</u>
General Fund	\$ 137,195.92
Road & Bridge Fund	\$ 4,917.40
Motor Fuel Tax Fund	\$ 651.22
Tourism Fund	\$ 8,503.75
Narcotics Fund	\$ -
TIF District #1	\$ -
TIF District #2	\$ -
Capital Projects Fund	\$ 187,527.00
Land Acquisition Fund	\$ -
Commuter Parking Lot Fund	\$ 146.33
Sanitation Fund	\$ 70,432.02
Water & Sewer Fund	\$ 35,499.95
CERF	\$ 53,942.00
Special Service Area Fund	\$ -
Total of all Funds	\$ 498,815.59

Total Number of Checks: 69

Purchases are made in accordance with the City's purchasing policies and procedures manual.

*Items of interest:*

Roesch (\$53,942.00) – 2 new CSO vehicles

BMO (\$118,992.82) – P-card transactions

*Vehicle Purchases:*

There are 2 vehicle purchases on this list of bills, from Roesch.

Committee date: February 13, 2020

Council date: February 20, 2020

**DOCUMENTS ATTACHED**

✓ List of Bills



## List of Bills - November 5, 2020

CHECK	VENDOR NAME	FULL DESCRIPTION	AMOUNT	INVOICE	ACCOUNT	ACCOUNT DESCRIPTION
12053	ABC Humane Wildlife Control & Prevention	Traps/Indicators Set	65.00	317568	10/8/2020 10024041 42048 PD	Animal Control
		Traps Set	65.00	319969	10/9/2020 10024041 42048 PD	Animal Control
			<u>130.00</u>			
12054	Al Warren Oil Co Inc	900 Gals of Unleaded Gas, 1202.7 Gals of Diesel	3,694.14	W1343857	10/15/2020 10 13001 GF	Gasoline Inventory
		New Decals for Diesel Tank	36.00	W1340920	10/2/2020 10015053 44015 VGM	Maintenance - Other Equipment
		875.1 Gals of Unleaded Gas	1,543.51	W1341997	10/7/2020 10 13001 GF	Gasoline Inventory
			<u>5,273.65</u>			
12055	Aramark	City Mat Service	931.18	602000026097	10/14/2020 10012061 42011 CS	Maintenance - Building/Grounds
			<u>931.18</u>			
12056	Azavar Audit Solutions	Contingency Payment- ComEd Audit	119.39	151399	10/1/2020 10016000 44051 CS	Electric Utilities
		Contingency Payment- Nicor Audit	28.46	151400	10/1/2020 50010000 42034 CIP	Professional Services
		Contingency Payment- Comcast Audit	292.55	151401	10/1/2020 10011015 42001 IT	Telephone/Alarm Line
			<u>440.40</u>			
12057	Baxter and Woodman Inc	FY21/22 Road Project	6,761.18	0216393	9/18/2020 50030000 46031 CIP	Street Improvement Program
			<u>6,761.18</u>			
12058	Bond, Dickson & Conway	Legal Services- Laughing Waters	399.00	17208	10/7/2020 10011013 42062 Legal	Legal - General Fund
		Legal Services- Legislative	20,688.50	17205	10/7/2020 10011013 42062 Legal	Legal - General Fund
		Legal Services- Planning/Zoning	3,192.00	17206	10/7/2020 10011013 42062 Legal	Legal - General Fund
		Legal Services- 145 Elmwood	418.00	17207	10/7/2020 10011013 42062 Legal	Legal - General Fund
		Legal Services- 464 Mulberry Lane	1,197.00	17209	10/7/2020 10011013 42062 Legal	Legal - General Fund
			<u>25,894.50</u>			
12059	BP & T Co.	Salt Creek Greenway Trail Bridge	59,398.20	01-2020	10/12/2020 50030000 46033 CIP	Bridge Improvements
			<u>59,398.20</u>			
12060	Bronwyn Sill	City Newsletter Design/Layout- Nov/Dec 2020	1,200.00	9	10/15/2020 10016000 42005 CS	Printing
			<u>1,200.00</u>			
12061	Call One	Phone Alarm Services-PD,CS,W/WW	265.67	331751	10/15/2020 10024041 42001 PD	Telephone/Alarm Line
		Phone Alarm Services-PD,CS,W/WW	209.49	331751	10/15/2020 10011015 42001 IT	Telephone/Alarm Line
		Phone Alarm Services-PD,CS,W/WW	233.53	331751	10/15/2020 63005082 42001 Sewer	Telephone/Alarm Line
			<u>708.69</u>			

## List of Bills - November 5, 2020

CHECK	VENDOR NAME	FULL DESCRIPTION	AMOUNT	INVOICE	ACCOUNT	ACCOUNT DESCRIPTION
12062	Catherine Zachara	Rain Barrel Reimbursement	50.00	4492097-48523	6/26/2020 61 49090 Sanitation	Clean Air Counts
			<u>50.00</u>			
12063	Christopher Burke Engineering Ltd	Royal Oaks Lift Station Replacement	608.91	161300	10/5/2020 63005085 46045 Water CIP	Sewer
			<u>608.91</u>			
12064	ClientFirst Consulting Group, LLC	ERP Implementation	1,250.00	11894	9/30/2020 50010000 46056 CIP	Strategic Plan
		ERP Implementation	4,801.25	11893	9/30/2020 50010000 46056 CIP	Strategic Plan
		ERP Implementation	6,007.50	11810	8/31/2020 50010000 46056 CIP	Strategic Plan
		ERP Implementation	531.25	11811	8/31/2020 50010000 46056 CIP	Strategic Plan
			<u>12,590.00</u>			
12065	Conduent State & Local Solutions	Camera Fixed Monthly/Pay by Web- Sept 20	13,990.00	1581081	10/5/2020 10024041 42093 PD	Cops Administration
		Camera Fixed Monthly/Pay by Web- Sept 20	450.00	1581081	10/5/2020 10 36130 GF	Trax-Guard Enforcement
			<u>14,440.00</u>			
12066	Conrad Polygraph, Inc	2 Polygraph Exams	320.00	4073	10/1/2020 10024047 49044 PD Brd	Testing Program
			<u>320.00</u>			
12067	Constellation New Energy	401 Crestwood Rd	233.47	18431343301	10/13/2020 21035059 44051 MFT	Electric Utilities
			<u>233.47</u>			
12068	Cook County Highway Department	Traffic Signal Maint- Devon/Ridge/Mittel	417.75	2020-3	10/3/2020 21035059 42040 MFT	Traffic Signal/Traffic Control
			<u>417.75</u>			
12069	Crain's Chicago Business	CCB Display	7,961.75	I00176841	10/15/2020 22050000 49055 Tourism	Economic Development
			<u>7,961.75</u>			
12070	Daily Herald	Bid Notices	216.20	150096	10/5/2020 50030000 46033 CIP	Bridge Improvements
		Public Hearings/Bid Notices	94.30	158355	10/2/2020 50010000 46056 CIP	Strategic Plan
		Public Hearings/Bid Notices	82.80	158355	10/2/2020 10012021 42086 CD	Publish Legal Notice
		Public Hearings/Bid Notices	75.90	158355	10/2/2020 10012021 42086 CD	Publish Legal Notice
			<u>469.20</u>			
12071	DTN, LLC	Roadcast Pavement FCST Point for FY21	2,364.00	5729923	5/1/2020 10035052 44083 Streets	Snow & Ice Control
			<u>2,364.00</u>			
12072	DuPage County Clerk	Notary Public Fee- Curiale	10.00	3	10/14/2020 10011011 42089 Admin	Education And Training
			<u>10.00</u>			

## List of Bills - November 5, 2020

CHECK	VENDOR NAME	FULL DESCRIPTION	AMOUNT	INVOICE	ACCOUNT	ACCOUNT DESCRIPTION
12073	DuPage County Recorder	Sewer/Water Lien Release	110.00	R2020-091872	10/1/2020 10011011 42087 Admin	Recording Fees
			<u>110.00</u>			
12074	DuPage County Treasurer	CJIS 3rd Quarter 2020	750.00	IA644	9/29/2020 10024041 42003 PD	Communications
			<u>750.00</u>			
12075	Edgar Truck Wash	Hydrant Meter Deposit Refund	1,500.00	102020	10/20/2020 63 22066 Water	Hydrant meter rental deposit
		Hydrant Meter Deposit Refund	-411.62	102020	10/20/2020 63 22066 Water	Hydrant meter rental deposit
			<u>1,088.38</u>			
12076	Edward-Elmhurst Health	1 Heart Screening	50.00	3003326923	10/8/2020 10024041 49046 PD	Fitness Program
			<u>50.00</u>			
12077	EJ Equipment Inc	Connector for Sewer Camera	244.82	P25491	9/30/2020 63005082 44015 Sewer	Maintenance - Other Equipment
			<u>244.82</u>			
12078	Eric Schaumburg	Rain Barrel Reimbursement	50.00	10122020	10/4/2020 61 49090 Sanitation	Clean Air Counts
			<u>50.00</u>			
12079	First Advantage LNS Screening Solutions	2 Background Verifications	8.95	5513302009	8/31/2020 10024041 44039 PD	Detective's Expense
			<u>8.95</u>			
12080	Flood Brothers	1YD Trash Extra Yards- PW	350.00	5156262	10/6/2020 10035052 42054 Streets	Dump Fees
		3.88 Tons of 10YD Rolloff	433.40	5148689	10/6/2020 10035052 42054 Streets	Dump Fees
		18.48 Tons of 30YD Rolloff	1,231.40	5148953	10/6/2020 63005081 44018 Utilities	Maintenance - Storm Sewers
			<u>2,014.80</u>			
12081	Fountain Pros, LLC	Weekly Services Visits- Sept 2020	1,700.00	1105	10/5/2020 50010000 46056 CIP	Strategic Plan
			<u>1,700.00</u>			
12082	GHC Mechanical, Inc.	Cooling Server Room Repair-PD	369.70	W23777	9/30/2020 10012061 42011 CS	Maintenance - Building/Grounds
			<u>369.70</u>			
12083	Hawkins Inc	WW Chemical Supplies	1,081.65	4801192	9/21/2020 63005082 44063 Sewer	Chemical Supplies
			<u>1,081.65</u>			

## List of Bills - November 5, 2020

CHECK	VENDOR NAME	FULL DESCRIPTION	AMOUNT	INVOICE	ACCOUNT	ACCOUNT DESCRIPTION
12084	Healy Asphalt Company LLC	8.91 Tons of Surface	<u>503.42</u>	25553	10/7/2020 20035058 42084 RB	Road Resurfacing/Repairs
			<u>503.42</u>			
12085	Hinckley Springs Water Co	Lab Water Delivery	<u>16.77</u>	6174707101120	10/11/2020 63005082 44061 Sewer	Laboratory Supplies
			<u>16.77</u>			
12086	HR Green	Small Cell/5G	8,280.00	138470	10/6/2020 10015051 42050 PW Admin	Engineering Services
		Time and Materials Work/Projects	<u>765.00</u>	138467	10/6/2020 10015051 42050 PW Admin	Engineering Services
			<u>9,045.00</u>			
12087	Huff & Huff, Inc	Squaw Creek Improvement	<u>308.89</u>	0802893	10/8/2020 50010000 46034 CIP	Storm Sewer
			<u>308.89</u>			
12088	Impressions In Stone	2 Veteran Memorial Bricks	<u>55.00</u>	11264	10/23/2020 22010000 49033 Tourism	Veteran's Memorial
			<u>55.00</u>			
12089	Just Safety, Ltd	Medical Kit Resupply- 269 IP Rd	<u>63.10</u>	35204	10/5/2020 63005082 44022 Sewer	Safety Equipment
			<u>63.10</u>			
12090	Lakeshore Recycling Systems	City Street Sweeping	<u>4,232.99</u>	PS342671	9/30/2020 20035058 42110 RB	Street Sweeping
			<u>4,232.99</u>			
12091	Lauterbach & Amen	GASB 74/75	<u>3,850.00</u>	49634	10/5/2020 10016000 42031 CS	Auditing Services
			<u>3,850.00</u>			
12092	M & M Lock & Safe Ltd	Finance Safe Repairs	<u>129.00</u>	00002288	9/29/2020 10012061 42011 CS	Maintenance - Building/Grounds
			<u>129.00</u>			
12093	Marquardt & Belmonte PC	City Prosecutions- Sept 2020	1,485.00	10907	9/30/2020 10011013 42064 Legal	Legal - Prosecution
		DUI Prosecutions- Sept 2020	3,321.60	10910	9/30/2020 10011013 42064 Legal	Legal - Prosecution
		Admin Hearings- Sept 2020	<u>270.00</u>	10908	9/30/2020 10024041 42034 PD	Professional Services
			<u>5,076.60</u>			
12094	MLP Construction	58 Tons of Stone Delivered	<u>2,353.45</u>	20-130	9/12/2020 63005081 44013 Utilities	Maintenance - Water Mains
			<u>2,353.45</u>			
12095	North Shore Water Reclamation District	Biomonitoring Ceriodiphnia, Minnow	<u>800.00</u>	MISC00000120784	9/29/2020 63005082 42003 Sewer	Communications
			<u>800.00</u>			

## List of Bills - November 5, 2020

CHECK	VENDOR NAME	FULL DESCRIPTION	AMOUNT	INVOICE	ACCOUNT	ACCOUNT DESCRIPTION
12096	Parkmobile USA, Inc	End User Fees- Sept 2020	<u>62.90</u>	INV18274	9/30/2020 60 42034 Metra	Professional Services
			<u>62.90</u>			
12097	R.C. Topsoil Inc	1 Load of Pulverized Dirt Delivered	<u>499.25</u>	2000710	10/6/2020 63005081 42113 Utilities	Maintenance - Water Mains
			<u>499.25</u>			
12098	RJN Group, Inc.	2020 Construction Oversight & 2021 Design	<u>5,654.95</u>	34720102	10/9/2020 63005085 46047 Water CIP	Wastewater
			<u>5,654.95</u>			
12099	Robbins Schwartz	Audit Letter	<u>68.75</u>	874420	9/30/2020 10011013 42062 Legal	Legal - General Fund
			<u>68.75</u>			
12100	Robinson Engineering, Ltd	Stormwater Management Drainage Issues	4,572.00	20100310	10/21/2020 10012021 42034 CD	Professional Services
		Ward 2/3 Stormwater Construction Engineering	77,910.12	20090335	9/22/2020 50010000 46034 CIP	Storm Sewer
			<u>82,482.12</u>			
12101	Roesch	New PD Vehicle	26,971.00	CW82720	9/22/2020 70010000 46011 CERF	Vehicles - Governmental
		New PD Vehicle	26,971.00	CW82719	9/22/2020 70010000 46011 CERF	Vehicles - Governmental
			<u>53,942.00</u>			
12102	Roger C. Marquadt & Co.	Professional Consulting Services- Aug 2020	3,000.00	3620	8/28/2020 10011011 42034 Admin	Professional Services
		Professional Consulting Services- Sept 2020	3,000.00	3658	9/8/2020 10011011 42034 Admin	Professional Services
			<u>6,000.00</u>			
12103	SAFE built	Building Inspections- Sept 2020	<u>4,187.46</u>	0072350-IN	9/30/2020 10012021 42034 CD	Professional Services
			<u>4,187.46</u>			
12104	Schumann Printers, I	Community Newsletter- Nov/Dec	<u>4,436.00</u>	135306	10/26/2020 10016000 42005 CS	Printing
			<u>4,436.00</u>			
12105	Shred-It	Shredding Service	<u>417.55</u>	8180647545	10/9/2020 61 49090 Sanitation	Clean Air Counts
			<u>417.55</u>			
12106	Sikich LLP	Professional Services for Audit	<u>5,430.00</u>	466687	10/19/2020 10016000 42031 CS	Auditing Services
			<u>5,430.00</u>			
12107	SMG Security Holdings,LLC	Fire System- Metra, 11/01/20-01/31/21	<u>83.43</u>	91088	10/7/2020 60 42011 Metra	Maintenance - Building/Grounds
			<u>83.43</u>			

## List of Bills - November 5, 2020

CHECK	VENDOR NAME	FULL DESCRIPTION	AMOUNT	INVOICE	ACCOUNT	ACCOUNT DESCRIPTION
12108	Stout	Portable Generator Refund	250.00	100420	10/15/2020 10016000 49085 CS	Generator Grant Program
			<u>250.00</u>			
12109	Suburban Laboratories Inc	Wastewater water lab testing	4,605.00	180808	9/29/2020 63005082 42003 Sewer	Communications
			<u>4,605.00</u>			
12110	Terrace Supply Company	Gas Cylinder Rentals	26.40	01016499	9/30/2020 63005082 42022 Sewer	Equipment Rental
			<u>26.40</u>			
12111	Teska Associates, Inc	UDO Update	1,571.25	10719	10/19/2020 50010000 49055 CIP	Economic Development
			<u>1,571.25</u>			
12112	Thomas Engineering Group, LLC	Irving Park Bike Path Bridge Rehab	12,923.40	20-277	10/12/2020 50030000 46033 CIP	Bridge Improvements
			<u>12,923.40</u>			
12113	Thompson Rental Station Inc	3 Ton Asphalt Roller Rental	428.46	583814-1	10/7/2020 10035052 42022 Streets	Equipment Rental
			<u>428.46</u>			
12114	Toscas Law Group	Mail-In Railroad Crossing Violations- 10/09/20	175.00	100920	10/12/2020 10024041 42034 PD	Professional Services
			<u>175.00</u>			
12115	Traffic Control & Protection	4 Street Signs- Commercial/Catalpa	161.00	105274	9/30/2020 20035058 42040 RB	Traffic Signal/Traffic Control
			<u>161.00</u>			
12116	Tyler Technologies	ERP Implementation	14,025.00	045-317824	9/30/2020 50010000 46056 CIP	Strategic Plan
			<u>14,025.00</u>			
12117	V.I.P. Express Car Wash	14 #2 Super Washes- July 2020	126.95	138	10/6/2020 10024041 42017 PD	Maintenance - Vehicles
		17 #2 Super Washes- June 2020	110.50	1351	10/6/2020 10024041 42017 PD	Maintenance - Vehicles
		20 #2 Super Washes- August 2020	130.00	136	10/6/2020 10024041 42017 PD	Maintenance - Vehicles
			<u>367.45</u>			
12118	Vortex Technologies, Inc	Calibration of North Plant Flow Channels	5,080.00	6295	10/8/2020 63005082 42015 Sewer	Maintenance - Other Equipment
			<u>5,080.00</u>			
12119	Wood Dale Fire Protection Dist	Fire Inspections- 09/2020	275.00	CWD2020-09	9/30/2020 10 33002 GF	Building Permits
		Fire Inspection- 08/2020	225.00	CED2020-08	8/31/2020 10 33002 GF	Building Permits
		COC Inspection- 09/2020	1,890.00	COI2020-09	10/13/2020 10 33015 GF	Commercial Activity
			<u>2,390.00</u>			

## List of Bills - November 5, 2020

CHECK	VENDOR NAME	FULL DESCRIPTION	AMOUNT	INVOICE	ACCOUNT	ACCOUNT DESCRIPTION
12120	Wood Dale Park District	Veteran's Breakfast Sponsorship	450.00	20-026	10/27/2020 22040000 49036 Tourism	Community Events
			<u>450.00</u>			
12121	BMO - Harris Bank	Forest Awards- Grand Opening Plaque	37.00	357398801	9/30/2020 22040000 49036 Tourism	Community Events
		Amazon- Office Supplies	65.89	356414814	9/21/2020 10016000 42005 CS	Printing
		Amazon- Office Supplies	131.08	356537709	9/21/2020 10016000 42005 CS	Printing
		Sams Club- Executive Session	101.88	356987235	9/24/2020 10011011 44031 Admin	Office Supplies
		Home Depot-Painting supplies, dry wall	116.21	055735	10/14/2020 10012061 42011 CS	Maintenance - Building/Grounds
		Suburban Driveline-Safety test #501	40.00	1000071	9/28/2020 63005081 42017 Utilities	Maintenance - Vehicles
		Len's Ace-Stakes & staples Potter St Project	18.25	097611	9/21/2020 10035052 42046 Streets	Forestry Program
		Highway Sales-Sharpen chain saws	70.00	098105	9/21/2020 10035052 42011 Streets	Maintenance - Building/Grounds
		Miller Indstr-Replacement light switches	4.98	DEV2-2533	9/22/2020 10035052 42011 Streets	Maintenance - Building/Grounds
		Miller-Insulated screw driver Bldg Dept repairs	21.67	DEV3-61045	10/12/2020 10012061 42011 CS	Maintenance - Building/Grounds
		Sherwin-Williams-Paint for Bldg Dept	81.97	5889-7	10/13/2020 10012061 42011 CS	Maintenance - Building/Grounds
		Fullife-1 sweatshirt, gloves	47.78	53865	10/1/2020 10015051 44021 PW Admin	Uniforms
		Russo-Motomix for equipment	287.68	10155954	10/13/2020 63005081 44011 Utilities	Maintenance - Building/Grounds
		Grainger-Paper towels,marking paint	230.94	9682627907	10/13/2020 63005081 44011 Utilities	Maintenance - Building/Grounds
		USPS-Certified mailing	14.65	009510	9/24/2020 10015051 44002 PW Admin	Postage
		ISAWWA-Regulatory update training	30.00	200056946	10/8/2020 10015051 42089 PW Admin	Education And Training
		ISAWWA-Regulatory training	180.00	200056939	10/8/2020 63005081 42089 Utilities	Education And Training
		ISAWWA-Regulatory update training	100.00	200057034	10/15/2020 63005081 42089 Utilities	Education And Training
		USA Blue Book-Brass Nozzle for flusher	160.02	385393	10/12/2020 63005082 44014 Sewer	Maintenance - Sewer Mains
		USA Blue Book-Brass nozzle fog rate 100 PSI	105.02	390197	10/15/2020 63005082 44014 Sewer	Maintenance - Sewer Mains
		Farm & Fleet-Work boots	122.58	085810	10/8/2020 10015051 44021 PW Admin	Uniforms
		SiteOne-Replacement tree Hiawatha dead end	241.80	103554772-001	9/24/2020 10035052 42046 Streets	Forestry Program
		Walmart-2 pairs of pants	43.04	089894	9/24/2020 10015051 44021 PW Admin	Uniforms
		Raymar Hydraulics - Auger motor #224-167	299.88	28745	10/9/2020 10035052 44017 Streets	Maintenance - Vehicles
		Bumper To Bumper - Cabin air filter #Inventory	20.50	492-383627	10/12/2020 10 13002 GF	Vehicle Parts Inventory
		Bumper To Bumper - Air filter #232-166	76.23	492-383617	10/12/2020 10035052 44017 Streets	Maintenance - Vehicles
		Grainger - Hole saw & arbor #231-122	36.82	9681622743	10/12/2020 10035052 44017 Streets	Maintenance - Vehicles
		Friendly Ford - TPMS sensors #PDV	110.38	214924	10/14/2020 10024041 44017 PD	Maintenance - Vehicles
		Suburban Driveline-Safety Driveline #580	40.00	1000033	9/28/2020 63005081 42017 Utilities	Maintenance - Vehicles
		Metal Supermarkets - 3 1/2" Flat stock #231-122	33.00	1029315	10/6/2020 10035052 44017 Streets	Maintenance - Vehicles
		Grainger - Spring tension pins #231-122	12.60	9676310148	10/7/2020 10035052 44017 Streets	Maintenance - Vehicles

## List of Bills - November 5, 2020

CHECK	VENDOR NAME	FULL DESCRIPTION	AMOUNT	INVOICE	ACCOUNT	ACCOUNT DESCRIPTION
		Friendly Ford - Spare wheels & tires #PDV	303.29	214799	10/7/2020 10024041	44017 PD Maintenance - Vehicles
		CPS - Rear rotors #224-167	433.50	1-0166070	10/8/2020 10035052	44017 Streets Maintenance - Vehicles
		Grainger - Paper towels #VMM	37.74	96783357287	10/8/2020 10015053	44099 VGM Other Parts And Materials
		Grainger - Clevis pins #231-122	19.48	9677901473	10/8/2020 10035052	44017 Streets Maintenance - Vehicles
		Bumper To Bumper - Battery #456-11G	108.29	492-381952	9/25/2020 63005082	44017 Sewer Maintenance - Vehicles
		Grainger - Hand soap #VMM	67.48	9666699690	9/28/2020 10015053	44099 VGM Other Parts And Materials
		Bumper To Bumper - Oil & fuel filters #244-01E	28.48	492-382014	9/25/2020 10035052	44015 Streets Maintenance - Other Equipment
		Monroe Truck - Tailgate pins #236-172	159.91	330036	9/28/2020 10035052	44017 Streets Maintenance - Vehicles
		Grainger - Brake Cleaner #231-122	34.20	9672225324	10/2/2020 10035052	44017 Streets Maintenance - Vehicles
		Grainger - 4 1/2" Grinding wheels #231-122	13.32	9674300265	10/5/2020 10035052	44017 Streets Maintenance - Vehicles
		Grainger - S/S bolts, nuts, washers #231-122	31.58	9662353821	9/23/2020 10035052	44017 Streets Maintenance - Vehicles
		Grainger - #5 o-rings #231-122	1.90	9664089084	9/24/2020 10035052	44017 Streets Maintenance - Vehicles
		Rush Truck - Quick release valve #233-152	45.25	3020857516	9/24/2020 10035052	44017 Streets Maintenance - Vehicles
		Metal Supermarkets - 2 1/2" Flat stock #231-122	30.00	1029027	9/24/2020 10035052	44017 Streets Maintenance - Vehicles
		Atlas Bobcat - Hydraulic cylinder #244-01E	580.91	BH6518	9/25/2020 10035052	44015 Streets Maintenance - Other Equipment
		Bumper To Bumper - 10W30 Oil 244-01E	93.36	492-381978	9/25/2020 10035052	44015 Streets Maintenance - Other Equipment
		Lurvey-Trees for 400 Spruce	780.00	015055	10/9/2020 10035052	42046 Streets Forestry Program
		Grainger - Toggle switch #241-109	2.24	9655368141	9/17/2020 10035052	44015 Streets Maintenance - Other Equipment
		Grainger - Gr 8 bolts, nuts & washers #231-122	88.01	9658579959	9/21/2020 10035052	44017 Streets Maintenance - Vehicles
		Geib - Hyd hoses and fittings #231-122	323.71	613804-001	9/21/2020 10035052	44017 Streets Maintenance - Vehicles
		Grainger - Bolts, nuts, washers #231-122	79.18	9661453234	9/22/2020 10035052	44017 Streets Maintenance - Vehicles
		Grainger - ORB plugs #231-122	5.64	9660427981	9/22/2020 10035052	44017 Streets Maintenance - Vehicles
		IWEA-COVID 19 seminar	15.00	062397	10/1/2020 10015051	42089 PW Admin Education And Training
		Amazon-Holiday light clips	19.99	018621	9/23/2020 20035058	42110 RB Street Sweeping
		Grainger-Wasp spray	27.80	0477911	9/24/2020 10035052	42046 Streets Forestry Program
		Miller Indstr-Insulating foam	7.19	047791	9/25/2020 10035052	44015 Streets Maintenance - Other Equipment
		Steiner-Replacement ballast for light	43.87	010377	10/6/2020 10015051	42011 PW Admin Maintenance - Building/Grounds
		Lurvey-Boulders for Potter/Spruce	206.88	0150551	10/9/2020 10024041	42011 PD Maintenance - Building/Grounds
		Great Lakes Concrete-Catch basin & riser extension	238.90	240469	10/6/2020 63005081	44018 Utilities Maintenance - Storm Sewers
		Ziebell-PVC couplings & grates	430.75	708924-000	10/6/2020 63005081	44018 Utilities Maintenance - Storm Sewers
		GEIB-Hose repair	83.90	615310-001	10/9/2020 63005081	44018 Utilities Maintenance - Storm Sewers
		Ziebel-Lower stem pipe for repairs	212.92	708660-000	9/17/2020 63005081	44013 Utilities Maintenance - Water Mains
		Maher-L/S t-shirts & pants	155.55	2010-634880	10/13/2020 10015051	44021 PW Admin Uniforms
		IWEA-Compost training	15.00	031537	10/1/2020 10015051	42089 PW Admin Education And Training



## List of Bills - Novembe 5, 2020

CHECK	VENDOR NAME	FULL DESCRIPTION	AMOUNT	INVOICE	ACCOUNT	ACCOUNT DESCRIPTION
		AutoZone-10W-30 oil	35.75	2770108136	10/9/2020 63005082 44011 Sewer	Maintenance - Building/Grounds
		Len's Ace-Uniform pants-sweatshirt	161.05	049648	10/12/2020 10015051 44021 PW Admin	Uniforms
		Jewel-Ice tor transport water samples	4.98	00075857	10/12/2020 63005082 44011 Sewer	Maintenance - Building/Grounds
		Great Lakes Concrete-Grate repair	303.84	240204	9/21/2020 63005081 44018 Utilities	Maintenance - Storm Sewers
		Standard-Valve top assembly	17.09	P24444	9/10/2020 63005081 44099 Utilities	Other Parts And Materials
		Standard-Nozzle coupler for repairs	42.14	P24650	9/21/2020 63005081 44099 Utilities	Other Parts And Materials
		Rush Truck - Fuel Filters # Inventory	376.85	3021027829-A	10/8/2020 10 13002 GF	Vehicle Parts Inventory
		Rush Truck - Exhaust Heat Shield Clamps # 236-172	156.99	3021027829-B	10/8/2020 10035052 44017 Streets	Maintenance - Vehicles
		Grainger - Stainless bolts and nuts # 224-167	34.44	9679953092	10/9/2020 10035052 44017 Streets	Maintenance - Vehicles
		Bumper To Bumper - Wiper Blades # Inventory	59.90	492-383275	10/9/2020 10 13002 GF	Vehicle Parts Inventory
		Grainger - Air Hose # VMM	50.96	9682356341	10/13/2020 10015053 44099 VGM	Other Parts And Materials
		Driveline-Safety test	40.00	1000077	10/8/2020 63005082 44017 Sewer	Maintenance - Vehicles
		Grainger - Back Up alarms # Inventory	42.20	9674116281	10/5/2020 10 13002 GF	Vehicle Parts Inventory
		Standard Equipment - Debris Hose # 580-061	644.45	Picpak	10/7/2020 63005081 44017 Utilities	Maintenance - Vehicles
		Friendly Ford - Washer Pump and Seal # 417-142	20.12	214802	10/7/2020 10024041 44017 PD	Maintenance - Vehicles
		Friendly Ford - A/C Compressor, belt # 449-161	379.70	214809	10/7/2020 10024041 44017 PD	Maintenance - Vehicles
		CPS- Battery Credit # 449-161	-14.00	1CR0027595- A	10/8/2020 10024041 44017 PD	Maintenance - Vehicles
		CPS- Battery Credit # 406-148	-14.00	1CR0027595- B	10/8/2020 10024041 44017 PD	Maintenance - Vehicles
		Russo - Deck Roller Collars and pins # PWE-092	15.25	SPI10428794 - B	10/5/2020 10035052 44015 Streets	Maintenance - Other Equipment
		Russo - Deck Belt # PUE-001	60.33	SPI10428795 -A	10/5/2020 63005081 44016 Utilities	Maintenance - Facility
		Russo - Safety Switches # PWE-091	23.40	SPI10428795 -B	10/5/2020 10035052 44015 Streets	Maintenance - Other Equipment
		Russo - Deck Roller Collars and pins # Pwe-092	33.37	SPI10428798	10/5/2020 10035052 44015 Streets	Maintenance - Other Equipment
		CPS - Battery # 406-148	116.69	1-0165201	10/5/2020 10024041 44017 PD	Maintenance - Vehicles
		Rush Truck - Brake Chambers # 580-061	260.00	3020944701	10/5/2020 63005081 44017 Utilities	Maintenance - Vehicles
		CPS - Spark Plugs and coils # 449-161	276.51	1-0164949	10/2/2020 10024041 44017 PD	Maintenance - Vehicles
		CPS - Cabin Filters # Inventory	57.54	1-0165038	10/2/2020 10 13002 GF	Vehicle Parts Inventory
		CPS - TPMS Sensor # 449-161	52.20	10-0127787	10/2/2020 10024041 44017 PD	Maintenance - Vehicles
		CPS - Battery # 449-161	116.69	1-0165036	10/2/2020 10024041 44017 PD	Maintenance - Vehicles
		Friendly Ford - Intake Gaskets # 449-161	26.02	214731	10/2/2020 10024041 44017 PD	Maintenance - Vehicles
		Russo - Spindle, wheel, and bearings # PWE-093	409.64	SPI10428794 - A	10/5/2020 10035052 44015 Streets	Maintenance - Other Equipment
		Grainger - Drain Valve # VME	48.03	9667426564	9/29/2020 10015053 44015 VGM	Maintenance - Other Equipment
		Monroe - Tarp and crossbar # 233-152	322.77	330108	9/28/2020 10035052 44017 Streets	Maintenance - Vehicles
		Bumper To Bumper - lights #580-061	15.76	492-382549	10/1/2020 63005081 44017 Utilities	Maintenance - Vehicles
		Bumper To Bumper - License light # 236-172	8.39	492-382520	10/1/2020 10035052 44017 Streets	Maintenance - Vehicles

## List of Bills - Novembe 5, 2020

CHECK	VENDOR NAME	FULL DESCRIPTION	AMOUNT	INVOICE	ACCOUNT	ACCOUNT DESCRIPTION
		CPS - Battery Credit # 407-142	-14.00	1CR0027384	10/1/2020 10024041	44017 PD Maintenance - Vehicles
		Ray allen - K9 Remote Battery #449-161	39.99	RO043158	10/2/2020 10024041	44017 PD Maintenance - Vehicles
		CPS - A/C Compressor # 404-177	331.07	1-0163717	9/24/2020 10024041	44017 PD Maintenance - Vehicles
		Geib - Hoses and fittings # 233-152	527.29	614146-001	9/24/2020 10035052	44017 Streets Maintenance - Vehicles
		Rush Truck - Oil Filters # Inventory	499.50	3020849784	9/25/2020 10 13002 GF	Vehicle Parts Inventory
		CPS - Battery # 407-142	116.69	1-0164055	9/28/2020 10024041	44017 PD Maintenance - Vehicles
		Wholesale Direct - Strobe Light # 457-106	522.24	247374	9/8/2020 63005082	44017 Sewer Maintenance - Vehicles
		JX Peterbilt - oil and filters # 230-182	349.30	25128280P	9/29/2020 10035052	44017 Streets Maintenance - Vehicles
		Bumper To Bumper - Bulbs # 253-951	3.90	492-381176	9/18/2020 10035052	44015 Streets Maintenance - Other Equipment
		Sno Depot - Oil pan and gasket # 233-152	889.00	398412	9/17/2020 10035052	44017 Streets Maintenance - Vehicles
		Miler Industrial - Metric Bolts # PUE-001	2.55	356647307	9/22/2020 63005081	44016 Utilities Maintenance - Facility
		Advantage Trailer - Ramp Cables # 509-124	78.40	62579	9/22/2020 63005081	44017 Utilities Maintenance - Vehicles
		Grainger - 5/8" Bolts and washers # 233-152	26.12	9662705996	9/23/2020 10035052	44017 Streets Maintenance - Vehicles
		Grainger - RTV Silicone # 233-152	21.52	9664116119	9/24/2020 10035052	44017 Streets Maintenance - Vehicles
		Russo - Overflow Hose #PWE-090	4.66	SPI10411598-A	9/17/2020 10035052	44015 Streets Maintenance - Other Equipment
		Russo - Oil Cap # PWE-053	6.99	SPI10411619-B	9/17/2020 10035052	44015 Streets Maintenance - Other Equipment
		Russo - Controller # Pwe-090	242.54	SPI10411602-C	9/17/2020 10035052	44015 Streets Maintenance - Other Equipment
		Napa -Oil and Fuel Filter # 253-951	10.23	6734-003416	9/17/2020 10035052	44015 Streets Maintenance - Other Equipment
		Napa -Oil and Fuel Filter # 253-951	11.10	6734-003414	9/17/2020 10035052	44015 Streets Maintenance - Other Equipment
		Napa -Oil and Fuel Filter Credit # 253-951	-11.10	6734-003417	9/17/2020 10035052	44015 Streets Maintenance - Other Equipment
		Comcast - monthly internet/phone for City	7,221.84	357934844	10/6/2020 10011015	42001 IT Telephone/Alarm Line
		Waterworth - Water/sewer system rate analysis	7,485.00	357934845	10/6/2020 63005081	42089 Utilities Education And Training
		Flood Brothers - Monthly garbage service	69,914.47	358831181	10/16/2020 61	42053 Sanitation Scavenger Service
		Cabinfever EBA-Operation training manual	49.08	20-05774-14503	9/23/2020 63005082	42089 Sewer Education And Training
		NAPA-Credit for invoice #004680	-20.00	004683	10/6/2020 63005082	44011 Sewer Maintenance - Building/Grounds
		NAPA- Peak Coolant	43.96	004680	10/6/2020 63005082	44011 Sewer Maintenance - Building/Grounds
		Office Depot-office supplies	5.59	356537707	9/20/2020 10012021	44031 CD Office Supplies
		Comcast - monthly internet 144 Commerical	108.35	356987154	9/28/2020 63005081	42001 Utilities Telephone/Alarm Line
		GFOA - Webinar	35.00	357613043	10/2/2020 10013000	42089 Finance Education And Training
		Technology Imaging - Copier lease	1,089.94	357613044	10/2/2020 10016000	42022 CS Equipment Rental
		Comcast - monthly service fee	10.52	357806806	10/5/2020 10011015	42001 IT Telephone/Alarm Line
		GFOA - 7 webinars	245.00	357934767	10/6/2020 10013000	42089 Finance Education And Training
		Verizon-Squad Cards	888.96	9863635256	9/25/2020 10024041	42003 PD Communications
		CentralServ-USPS-POBox	254.00	356019609	9/16/2020 10016000	44002 CS Postage
		Twist-COVID Supplies	79.60	356987236	9/25/2020 10011014	49043 HR Safety Program

## List of Bills - Novembe 5, 2020

CHECK	VENDOR NAME	FULL DESCRIPTION	AMOUNT	INVOICE	ACCOUNT	ACCOUNT DESCRIPTION
	Amazon-EmployeeEngage		1,200.00	358287770	10/8/2020 10011014 49048 HR	Employee Engagement
	USPS-Marketing Mail		240.00	358473093	10/9/2020 10016000 42005 CS	Printing
	Twist-office supplies		257.94	356414812	9/18/2020 10012021 44031 CD	Office Supplies
	Amazon - Uniforms		11.49	012341	9/29/2020 10024041 44021 PD	Uniforms
	Amazon - Uniforms		51.89	0482215	10/2/2020 10024041 44031 PD	Office Supplies
	Amazon - Uniforms		154.94	008711	10/2/2020 10024041 44021 PD	Uniforms
	Amazon - Uniforms		38.00	010025	10/6/2020 10024041 44021 PD	Uniforms
	Amazon - 2 Faucets for men's locker room		77.96	044823	10/8/2020 10024041 44011 PD	Maintenance - Building/Grounds Telephone/Alarm Line
	Verizon-Phone Billing		844.23	9861840100	9/1/2020 10024041 42001 PD	Telephone/Alarm Line
	Action Screen Print- MERIT SWAT Uniforms		369.49	08167788	9/30/2020 10024041 44021 PD	Uniforms
	John E Reid & Associates- Interviewing training		129.00	0e1f9ca	10/12/2020 10024041 42089 PD	Education And Training
	FedEx - Shipping labs		10.18	022310	10/14/2020 10024041 44002 PD	Postage
	Amazon - Uniforms		85.49	075477	9/16/2020 10024041 44021 PD	Uniforms
	Amazon - Uniforms		94.00	046494	9/17/2020 10024041 44021 PD	Uniforms
	Staples - 9bx copy paper, supplies		340.78	7314265783	9/19/2020 10024041 44029 PD	Copy Supplies
	GoDaddy - SSL Renewal		591.98	358831105	10/15/2020 10011015 42105 IT	IT - Software Licenses & M/As
	Employee Engagement - Panera		803.26	15046738	9/19/2020 10011014 49048 HR	Employee Engagement
	The Blue Line - Job Posting CSO		298.00	PL0053149010	10/5/2020 10011014 42095 HR	Employee Recruitment
	APWA - Job Posting Equipment Mechanic		325.00	AQ1O6BD33CD6	10/5/2020 10011014 42095 HR	Employee Recruitment
	Alexian Bro Medical Group - WC		605.80	5697079085	10/6/2020 10011014 49043 HR	Safety Program
	Target - Meeting supplies		56.90	063410	9/21/2020 10024041 49004 PD	Conferences/Meetings
	Zoom- Council Members		59.96	357806805	10/3/2020 10011015 42105 IT	IT - Software Licenses & M/As
	Amazon - USB Extension		32.99	358547825	10/12/2020 10011015 46030 IT	IT Equipment
	Scalofusion - MDM license renewal for Kiosk		62.40	358610881	10/12/2020 10011015 42105 IT	IT - Software Licenses & M/As
	Scalofusion - MDM license renewal for Kiosk		93.60	358610882	10/12/2020 10011015 42105 IT	IT - Software Licenses & M/As
	Sprint - Phone Service		1,042.85	358547826	10/13/2020 10011015 42001 IT	Telephone/Alarm Line
	Amazon- Backup archiver test drive		358.08	358610883	10/13/2020 10011015 46030 IT	IT Equipment
	Amazon- Office Supplies		32.28	357611943	10/1/2020 10016000 42005 CS	Printing
	Illinois Geographic -ILGISA Membership		65.00	356414655	9/18/2020 10011015 42030 IT	IT Professional Services
	Amazon- ERP Ipad Cases and Charging Dock		343.91	356773513	9/24/2020 10011015 46030 IT	IT Equipment
	BlueBeam Inc - Plan review software renew		495.00	357336395	9/29/2020 10011015 42105 IT	IT - Software Licenses & M/As
	Amazon - Prime Membership		119.00	357613042	10/1/2020 10011015 42105 IT	IT - Software Licenses & M/As
	CDW- Barracuda Spam Filter Renewal		6,840.00	357612966	10/10/2020 10011015 42105 IT	IT - Software Licenses & M/As
			118,992.82			
<b>Grand Total</b>			<b>498,815.59</b>			
<b>Total number of checks - 69</b>						

# **EXECUTIVE SESSION**

November 5, 2020 --- *Tape Recording is the Law!*

Pursuant to Illinois Open Meetings Act, 5ILCS120/2-1 *et seq.* to discuss:

1. Executive Session Official Minutes (Pursuant to 5ILCS120/2(c)(21))
- 2. Land Acquisition (Pursuant to 5ILCS120/2(c)(5))**
3. Land Disposition (Pursuant to 5ILCS120/2(c)(6))
- 4. Pending Litigation (Pursuant to 5ILCS120/2(c)(11))**
5. Probable Litigation (Pursuant to 5ILCS120/2(c)(11))
6. Collective Bargaining (Pursuant to 5ILCS120/2(c)(2))
7. Personnel (Pursuant to 5ILCS120/2(c)(1))