

# AURORA ILLINOIS

PLANS FOR THE PROPOSED

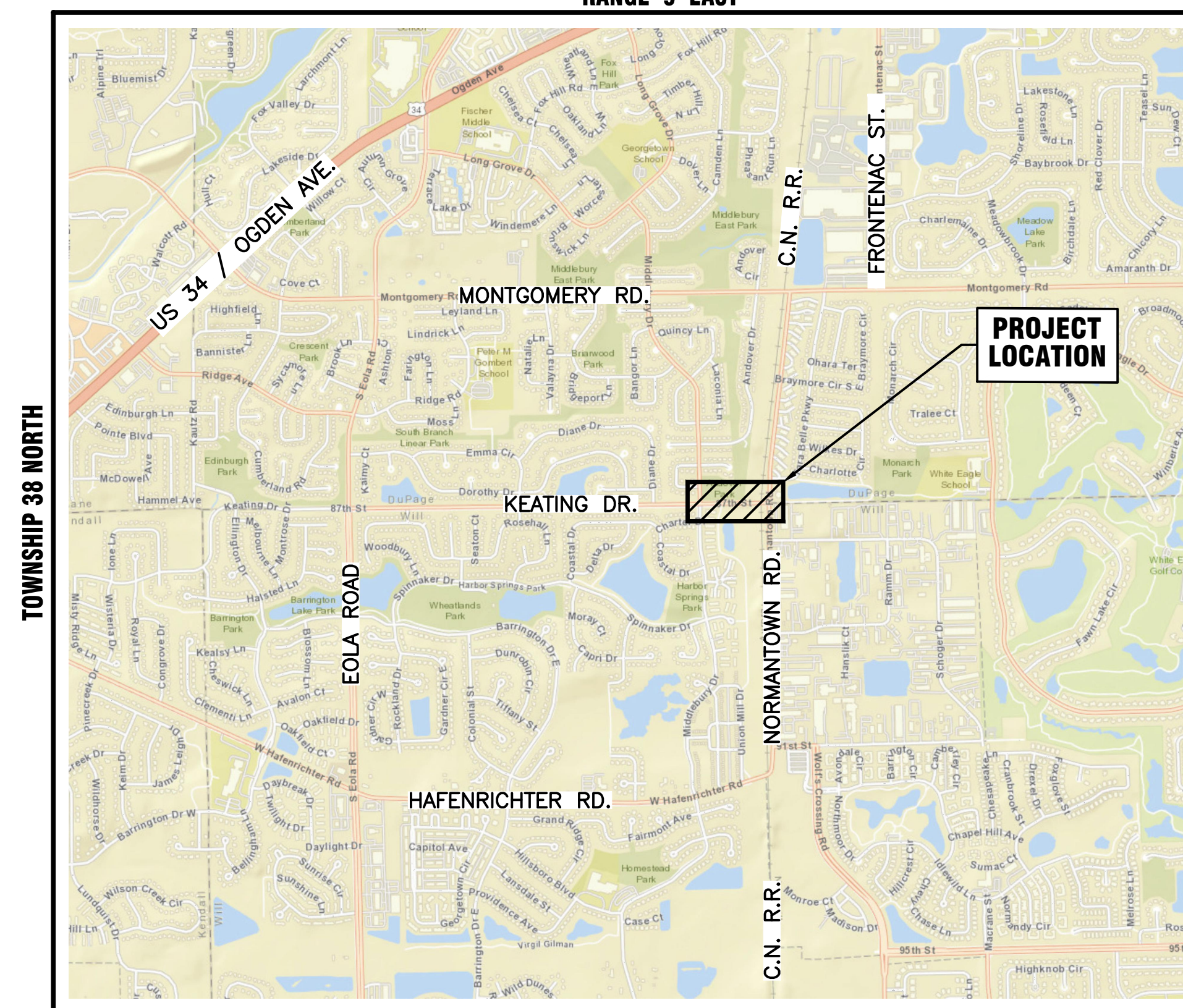
## KEATING DRIVE WATER MAIN IMPROVEMENTS

KEATING DR. FROM MIDDLEBURY DR. TO NORMANTOWN RD.

MAY 2024

GENERALLY LOCATED IN THE S. 1/2 OF SEC. 32, T38N, R9E

RANGE 9 EAST



DUPAGE COUNTY - NAPERVILLE TOWNSHIP  
THIRD PRINCIPAL MERIDIAN

LOCATION MAP  
NOT TO SCALE

### INDEX OF SHEETS

- 1 COVER SHEET
- 2 - 3 PLAN AND PROFILE
- 4 WC R.R. EXHIBIT
- 5 - 8 STANDARD DETAILS

LEGEND		
EXISTING	PROPOSED	
SANITARY SEWER		
STORM SEWER		
WATER MAIN		
FORCE MAIN		
UNDERDRAIN		
OVERHEAD LINE		
CABLE TV LINE		
GAS LINE		
TELEPHONE LINE		
ELECTRIC LINE		
FENCE		
MAJOR CONTOUR		
MINOR CONTOUR		
HIGH WATER LEVEL		
NORMAL WATER LEVEL		
PAVEMENT FLOW DIRECTION		
SPOT ELEVATION		
TOP OF CURB ELEVATION		
TOP OF FOUNDATION ELEVATION		
GUTTER ELEVATION		
PAVEMENT ELEVATION		
EDGE OF PAVEMENT		
CURB AND GUTTER		
RIGHT-OF-WAY		
SANITARY MANHOLE		
SANITARY CLEANOUT		
STORM MANHOLE		
CATCH BASIN		
INLET		
FLARED END SECTION		
FIRE HYDRANT		
VALVE VAULT		
VALVE BOX		
STREET LIGHT		
POWER POLE		
STREET SIGN		
ELECTRIC BOX		
TELEPHONE BOX		
TELEPHONE MANHOLE		
B-BOX		
GAS VALVE		
TRAFFIC HANDHOLE		
ELECTRIC HANDHOLE		
TREE W/ DIAMETER		
MAIL BOX		
STRUCTURE TO BE REMOVED		
PLUG EXISTING PIPE		
UTILITY CROSSING		
EXPLORATORY EXCAVATION LOCATION		
SANITARY MANHOLE REHABILITATION NUMBER		
SOIL BORING LOCATION WITH IDENTIFICATION NUMBER & ELEVATION		

Dial 811 or 1-800-892-0123



Know what's below.  
Call before you dig.

J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
811 OR 1-800-892-0123

CONSTRUCTION AND MAINTENANCE TO BE IN  
ACCORDANCE WITH ALL APPLICABLE REGULATORY  
REQUIREMENTS AND STANDARDS

**PRINTED BY THE AUTHORITY  
OF THE CITY OF AURORA**

PLANS PREPARED BY:

**CITY OF AURORA**

DEPARTMENT OF PUBLIC WORKS - ENGINEERING DIVISION  
77 S. BROADWAY AVE, AURORA, IL 60505

PHONE: 630-256-3200 FAX: 630-256-3229

#### REVISIONS:

- PER NICOR COMMENTS - 10/20/23
- PER WISCONSIN CENTRAL LTD. COMMENTS - 10/20/23
- PER COMED COMMENTS - 1/25/24

DESIGNED BY: NS	DRAWN BY: MH	CHECKED BY: KTM	APPROVED BY: KTM	HORIZ. SCALE: N/A	DATE: OCT. 2023
				VERT. SCALE: N/A	

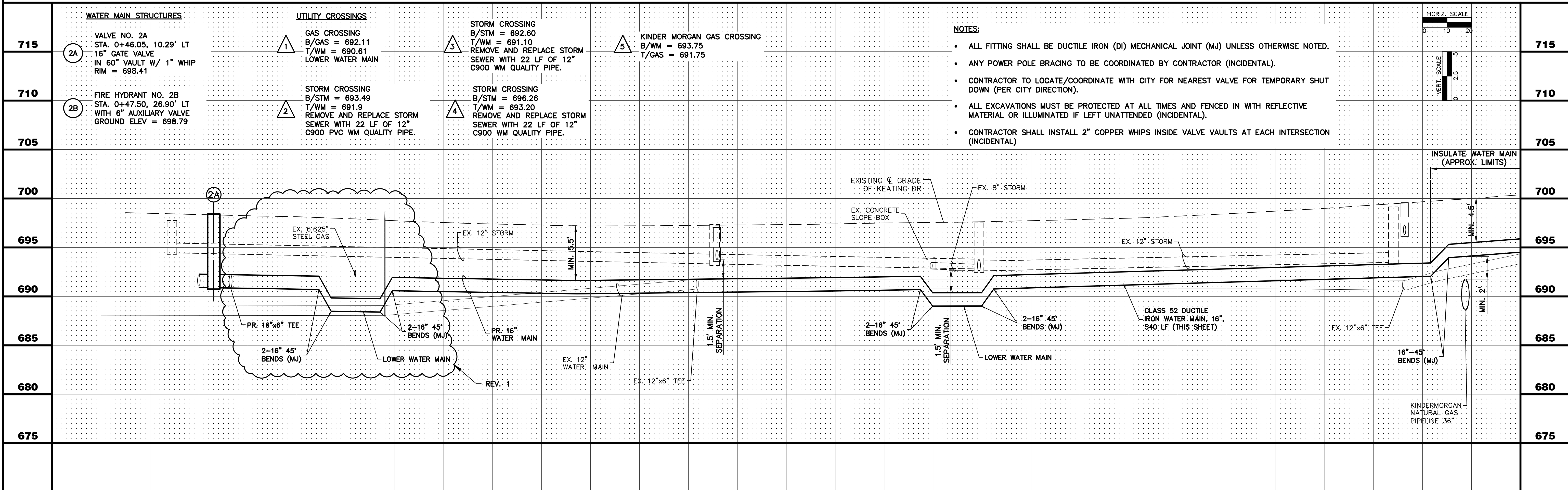
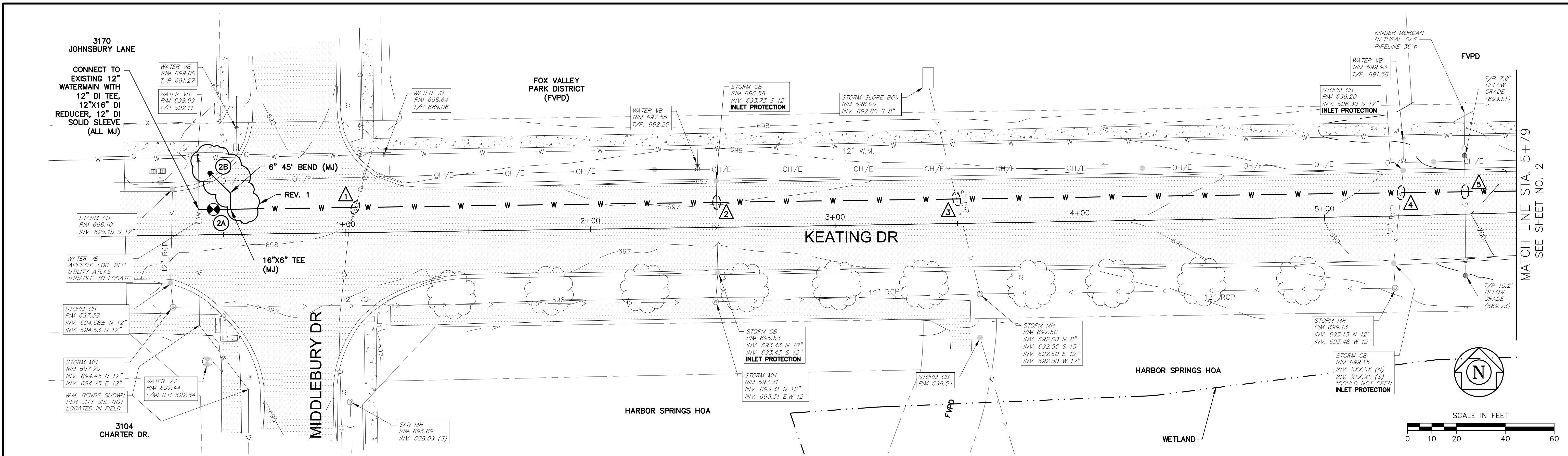
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ILLINOIS REGISTERED PROFESSIONAL

ENGINEER No. 062.070660

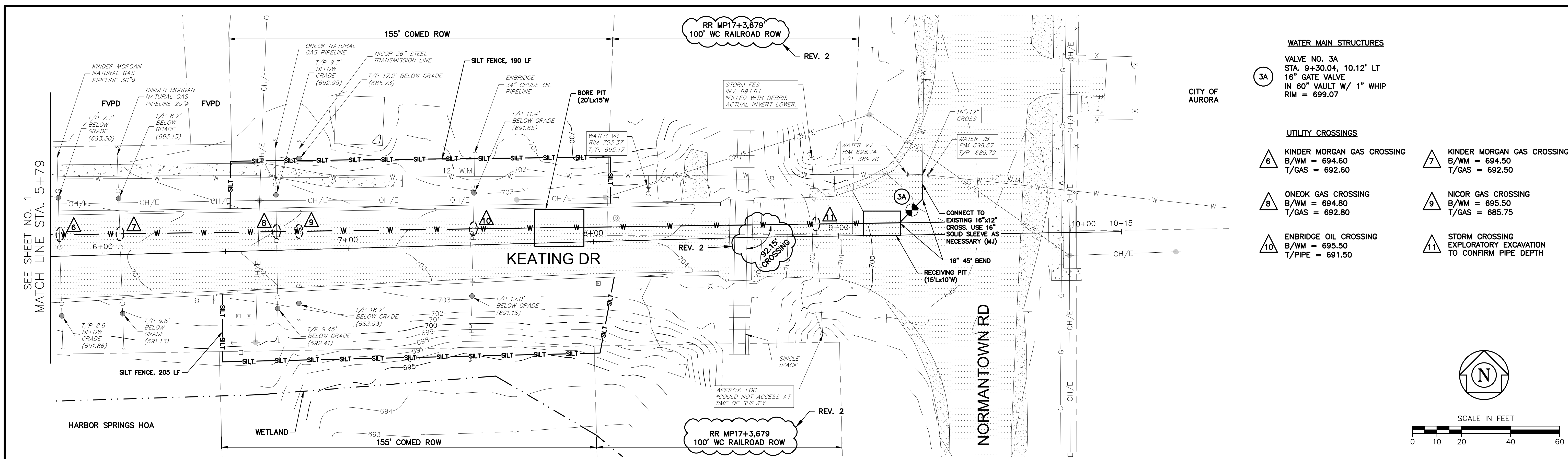
LICENSE EXPIRES NOVEMBER 30, 2023

DATE

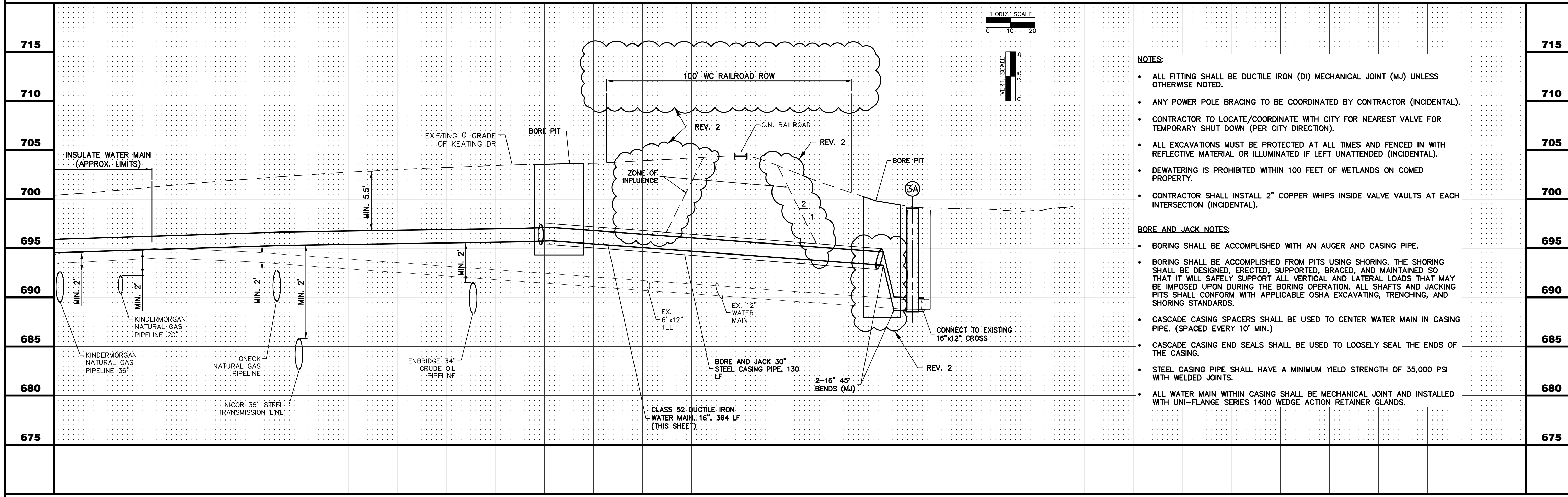
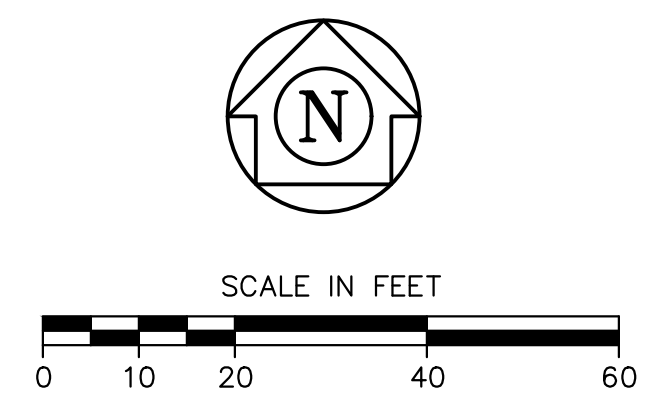


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<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td rowspan="2" style="width: 10%; text-align: center;"> </td> <td colspan="3" style="text-align: center;">           CITY OF AURORA            ENGINEERING DIVISION            77 SOUTH BROADWAY            AURORA, ILLINOIS 60505         </td> <td colspan="2" style="text-align: center;">           REVISIONS:            1. PER NICOR COMMENTS - 10/20/23            2. PER WISCONSIN CENTRAL LTD. COMMENTS - 10/20/23            3. PER COMED COMMENTS - 1/25/24         </td> </tr> <tr> <td style="width: 10%; text-align: center;">DESIGNED BY: NS</td> <td style="width: 10%; text-align: center;">CHECKED BY: KM</td> <td style="width: 10%; text-align: center;">SCALE: 1" = 20'</td> <td colspan="3" style="text-align: center;">PROJECT: KEATING DRIVE WATER MAIN IMPROVEMENTS</td> </tr> <tr> <td style="width: 10%; text-align: center;">DRAWN BY: MH</td> <td style="width: 10%; text-align: center;">APPROVED BY: KM</td> <td style="width: 10%; text-align: center;">DATE: 9/2023</td> <td colspan="3" style="text-align: center;">SHEET TITLE: PLAN AND PROFILE - KEATING DRIVE - STA. 0+00 TO STA. 5+79</td> </tr> <tr> <td colspan="5"></td> <td style="text-align: center;">SHEET NUMBER: 2</td> </tr> <tr> <td colspan="5"></td> <td style="text-align: center;">TOTAL SHEETS: 8</td> </tr> </table>							CITY OF AURORA ENGINEERING DIVISION 77 SOUTH BROADWAY AURORA, ILLINOIS 60505			REVISIONS: 1. PER NICOR COMMENTS - 10/20/23 2. PER WISCONSIN CENTRAL LTD. COMMENTS - 10/20/23 3. PER COMED COMMENTS - 1/25/24		DESIGNED BY: NS	CHECKED BY: KM	SCALE: 1" = 20'	PROJECT: KEATING DRIVE WATER MAIN IMPROVEMENTS			DRAWN BY: MH	APPROVED BY: KM	DATE: 9/2023	SHEET TITLE: PLAN AND PROFILE - KEATING DRIVE - STA. 0+00 TO STA. 5+79								SHEET NUMBER: 2						TOTAL SHEETS: 8
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- WATER MAIN STRUCTURES**
- VALVE NO. 3A
  - STA. 9+30.04, 10.12' LT
  - 16" GATE VALVE
  - IN 60" VAULT W/ 1" WHIP
  - RIM = 699.07
- UTILITY CROSSINGS**
- 6 KINDER MORGAN GAS CROSSING  
B/WM = 694.60  
T/GAS = 692.60
  - 7 KINDER MORGAN GAS CROSSING  
B/WM = 694.50  
T/GAS = 692.50
  - 8 ONEOK GAS CROSSING  
B/WM = 694.80  
T/GAS = 692.80
  - 9 NICOR GAS CROSSING  
B/WM = 695.50  
T/GAS = 685.75
  - 10 ENBRIDGE OIL CROSSING  
B/WM = 695.50  
T/PIPE = 691.50
  - 11 STORM CROSSING  
EXPLORATORY EXCAVATION  
TO CONFIRM PIPE DEPTH

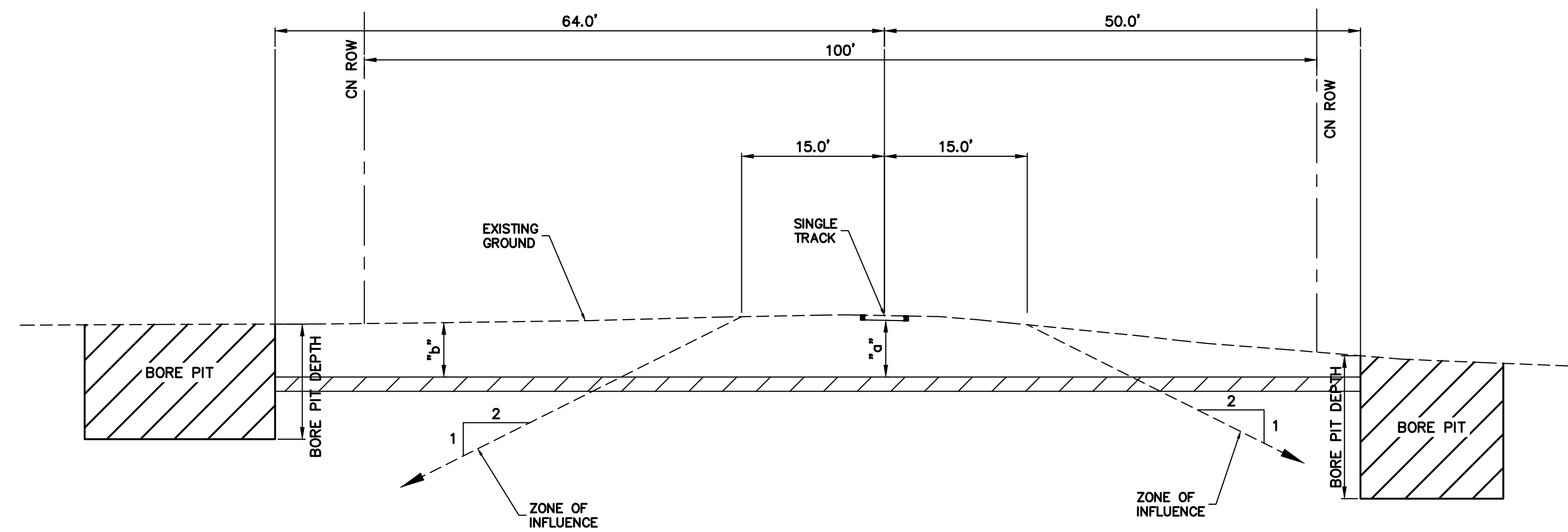


- NOTES:**
- ALL FITTING SHALL BE DUCTILE IRON (DI) MECHANICAL JOINT (MJ) UNLESS OTHERWISE NOTED.
  - ANY POWER POLE BRACING TO BE COORDINATED BY CONTRACTOR (INCIDENTAL).
  - CONTRACTOR TO LOCATE/COORDINATE WITH CITY FOR NEAREST VALVE FOR TEMPORARY SHUT DOWN (PER CITY DIRECTION).
  - ALL EXCAVATIONS MUST BE PROTECTED AT ALL TIMES AND FENCED IN WITH REFLECTIVE MATERIAL OR ILLUMINATED IF LEFT UNATTENDED (INCIDENTAL).
  - DEWATERING IS PROHIBITED WITHIN 100 FEET OF WETLANDS ON COMED PROPERTY.
  - CONTRACTOR SHALL INSTALL 2" COPPER WHIPS INSIDE VALVE VAULTS AT EACH INTERSECTION (INCIDENTAL).
- BORE AND JACK NOTES:**
- BORING SHALL BE ACCOMPLISHED WITH AN AUGER AND CASING PIPE.
  - BORING SHALL BE ACCOMPLISHED FROM PITS USING SHORING. THE SHORING SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED SO THAT IT WILL SAFELY SUPPORT ALL VERTICAL AND LATERAL LOADS THAT MAY BE IMPOSED UPON DURING THE BORING OPERATION. ALL SHAFTS AND JACKING PITS SHALL CONFORM WITH APPLICABLE OSHA EXCAVATING, TRENCHING, AND SHORING STANDARDS.
  - CASCADE CASING SPACERS SHALL BE USED TO CENTER WATER MAIN IN CASING PIPE. (SPACED EVERY 10' MIN.)
  - CASCADE CASING END SEALS SHALL BE USED TO LOOSELY SEAL THE ENDS OF THE CASING.
  - STEEL CASING PIPE SHALL HAVE A MINIMUM YIELD STRENGTH OF 35,000 PSI WITH WELDED JOINTS.
  - ALL WATER MAIN WITHIN CASING SHALL BE MECHANICAL JOINT AND INSTALLED WITH UNI-FLANGE SERIES 1400 WEDGE ACTION RETAINER GLANDS.

6+00	7+00	8+00	9+00	10+00	11+00																		
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<p>CITY OF AURORA ENGINEERING DIVISION 77 SOUTH BROADWAY AURORA, ILLINOIS 60505</p>					<p>SHEET NUMBER 3</p> <p>TOTAL SHEETS 8</p>																		

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INITIAL NOTIFICATION OF INTENT TO CONSTRUCT UTILITY CROSSING/ENCROACHMENT  
REQUIREMENTS AND INSTRUCTIONS

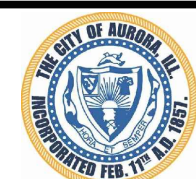


MINIMUM DEPTH BELOW	DRY JACK & BORE		DIRECTIONAL BORE
	CASED	UNCASED	
BASE OF RAIL (a)	6'	10'	15'
EXISTING GROUND (b)	5'	6'	6'
FLOWLINE DITCH (c)	5'	6'	6'

**REQUIREMENTS:**

1. NO EXCAVATION CAN BE CLOSER THAN 25' FROM CENTERLINE OF NEAREST TRACK.
2. IF THE EXCAVATION IS INSIDE THE ZONE OF INFLUENCE THEN SHORING PLANS ARE REQUIRED AND MUST INCLUDE THE LIVE E80 LOADING FROM PASSING TRAINS.
3. THE ZONE OF INFLUENCE IS DESCRIBED AS 15' FROM CENTERLINE THEN A 2:1 SLOPE OUTWARD.
4. IF EXCAVATION IS OUTSIDE OF ZONE OF INFLUENCE THEN EXCAVATION SHALL FOLLOW OSHA REQUIREMENTS.

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CITY OF AURORA  
ENGINEERING DIVISION  
77 SOUTH BROADWAY  
AURORA, ILLINOIS 60505

REVISIONS:

DESIGNED BY:	NS	CHECKED BY:	KM	SCALE:	N.T.S.
DRAWN BY:	MH	APPROVED BY:	KM	DATE:	9/2023

PROJECT

KEATING DRIVE WATER MAIN IMPROVEMENTS

SHEET NUMBER

4

SHEET TITLE

DETAIL FOR WISCONSIN CENTRAL LTD RAILROAD

TOTAL SHEETS

8

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**CAST FRAME**

NOTES:  
 1. DUCTILE IRON CASTINGS SHALL BE GRADE 60-40-18 AND SHALL BE TESTED IN ACCORDANCE WITH FEDERAL SPECIFICATIONS.  
 2. ALL LIDS AND COVERS SHALL BE MADE OF DUCTILE IRON.  
 3. THE FINISHING COVER SHALL HAVE RAISED LETTERS.  
 4. FRAME AND LID TO BE NEHRM P-1713-2.  
 5. LID SHALL BE CAST WITH THE RESERVATION "CITY OF AURORA".  
 6. LID SHALL HAVE A CONCEALED POK HOLE.

**CAST CLOSED LID**

MIN. COVER  
 OR AS SHOWN ON PLANS  
 VALVE  
 PRECAST RISER RINGS MINIMUM 3"  
 CORPORATION STOP COUPLING 1" DIAMETER MINIMUM, OR AS SHOWN ON PLANS.  
 PROVIDE 1/2" PREFORMED JOINT FILLER BETWEEN PIPE AND PEDESTAL  
 CONCRETE PEDESTAL WIDTH OF PIPE (WIDTH) BY LENGTH TO MATCH VALVE BOX.  
 PRECAST BOTTOM (3500 PSI CONCRETE)  
 COMPACTED CA-7

REFER TO THE STANDARD SPECIFICATIONS FOR IMPROVEMENTS FOR VALVE, VAULT, CORPORATION, PIPE, AND JOINT TYPES, MANUFACTURES, AND SIZES.

NOTES:  
 1. VALVE VAULTS TO BE PRECAST REINFORCED CONCRETE UNLESS OTHERWISE APPROVED.  
 2. PRO-RING AND ADHESIVE SEALANT (BY GRETTE) OR APPROVED EQUAL ADJUSTMENT RINGS SHALL BE USED FOR ALL ADJUSTMENTS UP TO A MAXIMUM ADJUSTMENT OF TEN INCHES (10").

REVISIONS	
DATE: 02/06/20	BY: DGoewey
DATE: 02/04/22	BY: CArmin

**VALVE IN VAULT**  
 SCALE: NOT TO SCALE  
 CHECKED: DF  
 DRAWING NUMBER: EXHIBIT III-C-4  
 DATE: 1/04  
 DRAWN: NM

**TYPICAL VALVE & BOX**

THE WORD "WATER" ON LID  
 BOX SHALL BE SCREW TYPE FOR DEPTH ADJUSTMENTS  
 OPEN GRADED STONE BACK FILL AROUND BOX  
 VALVE  
 WATERMAIN  
 CONCRETE BLOCK  
 MIN 5.5' DEPTH

REFER TO THE STANDARD SPECIFICATIONS FOR IMPROVEMENTS FOR VALVE AND BOX TYPE, MANUFACTURE, AND SIZES.

NOTES:  
 1. ALL NUTS, BOLTS, AND THREADED RODS SHALL BE STAINLESS STEEL (SEE THE STANDARD SPECIFICATIONS FOR IMPROVEMENTS FOR STEEL GRADE).

REVISIONS	
DATE: 01/20/11	BY: jhs

**TYPICAL VALVE & BOX**  
 SCALE: NOT TO SCALE  
 CHECKED: DF  
 DRAWING NUMBER: EXHIBIT III-C-5  
 DATE: 1/04  
 DRAWN: NM

**THRUST BLOCKING**

MONOLITHIC CONCRETE THRUST BLOCKING PLACED AGAINST UNDISTURBED VERTICAL EARTH FACE  
 WATER MAIN SIZE AS SHOWN ON PLANS  
 JOINTS TO BE ACCESSIBLE FOR REPAIRS  
 BLOCKING SHALL BE APPLIED FOR ALL TEES, PLUGS, CAPS, & BENDS OF 1 1/4" OR GREATER DEFLECTION  
 BLOCKING TO BE A MIN. OF 12" THICK

REVISIONS	
DATE: 01/20/11	BY: jhs

**THRUST BLOCKING**  
 SCALE: NOT TO SCALE  
 CHECKED: DF  
 DRAWING NUMBER: EXHIBIT III-C-3  
 DATE: 1/04  
 DRAWN: NM

**WATER MAIN LOWERING DETAIL**

FINISHED GRADE  
 PROPOSED PIPE  
 10' MIN \*\*  
 5'-6" MIN COVER  
 3'-0" MIN CONNECT TO NEXT JOINT  
 10' MIN \*\*  
 3/4" STAINLESS STEEL THREADED ROD INSERTED THROUGH RETAINING GLAND AND M.J. (2 REQUIRED)  
 RETAINING GLAND  
 WATER MAIN  
 22 1/2" BEND (MECH. JT.)  
 SECTIONAL VIEW  
 DETAIL VIEW

\*\* MINIMUM DIMENSION ACCORDING TO THE STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION ILLINOIS, CURRENT EDITION

NOTES:  
 1) For sizes larger than 16", special design will be required.  
 2) In lieu of installing stainless steel rods, the mechanical joints can be restrained with the Megaluq Series 1100 as manufactured by EBBA Iron Inc, or approved equal. Also, the bell and spigot joints shall be restrained on either side of the mechanical joints by EBBA Iron 1700 series restraint or approved equal and the restraint distance shall be in accordance with Exhibits III-C-9 and III-C-10.

REVISIONS	
DATE: 04/18	BY: DGoewey

**WATER MAIN LOWERING DETAIL**  
 SCALE: NOT TO SCALE  
 CHECKED: DF  
 DRAWING NUMBER: EXHIBIT III-C-8  
 DATE: 1/04  
 DRAWN: SAZ

**CASING PIPE**

STEEL CASING, 3500 P.S.I. YIELD STRENGTH, MINIMUM 3/8" BITUMINOUS COATED, MINIMUM 8" LARGER DIAMETER THAN CARRIER PIPE AUGERED AND JACKED UNDER ROADWAY  
 CARRIER PIPE (2" DIAMETER AND LARGER):  
 SANITARY = PVC PIPE  
 WATER OR STORM = D.I.P. PIPE, WITH FIELD LOCK GASKETS.  
 BACK OF CURB OR EDGE OF PAVEMENT  
 PAVEMENT CENTER LINE  
 5' MIN.  
 8" O.C. MAX.  
 2" MAX.  
 CASCADE MODEL CCS STAINLESS STEEL CASING SPACERS  
 CASCADE CCS END SEALS WITH STAINLESS STEEL BANDS

SECTION A-A  
 STEEL CASING  
 CARRIER PIPE  
 CASCADE MODEL CCS STAINLESS STEEL CASING SPACERS

REVISIONS	
DATE: 02/26/20	BY: DGoewey
DATE: 02/04/22	BY: CArmin

**CASING PIPE**  
 SCALE: NOT TO SCALE  
 CHECKED: DF  
 DRAWING NUMBER: EXHIBIT III-C-13  
 DATE: 1/07/2007  
 DRAWN: jhs

**HYDRANT INSTALLATION**

HYDRAFINDER OR APPROVED EQUAL  
 WATEROUS PACER MODEL - WB-67  
 THE PUMPER NOZZLE SHALL BE BETWEEN 2 AND 3 FEET FROM THE BACK-OF-CURB.  
 HYDRANT TO HAVE A TRAP BREAKAWAY FLANGE.  
 REFER TO STANDARD SPECIFICATIONS FOR IMPROVEMENTS AND SEE EXHIBIT III-C-5 FOR VALVE BOX TYPE AND MANUFACTURES.  
 THE HYDRANT SHALL HAVE FIVE FEET-SIX INCHES (5.5') DEPTH OF COVER.  
 CURB & GUTTER  
 27" MIN  
 6" MIN  
 6" FIRE HYDRANT SERVICE FROM LOOPED WATERMAIN  
 HYDRANT DRAIN OPENINGS  
 PRECAST CONCRETE BLOCKS  
 PROVIDE POURED IN PLACE CONCRETE THRUST BLOCKING AGAINST UNDISTURBED EARTH  
 3/4" OPEN GRADED STONE, WRAPPED IN DRAINAGE FABRIC TO SURROUND HYD. INSTALLATION.

REVISIONS	
DATE: 02-26-20	BY: DGoewey
DATE: 02-04-22	BY: CArmin

**HYDRANT INSTALLATION**  
 SCALE: NOT TO SCALE  
 CHECKED: DF  
 DRAWING NUMBER: EXHIBIT III-C-7  
 DATE: 8/02  
 DRAWN: NM / SAZ

**WATER MAIN RESTRAINT DETAIL**

BENDS  
 REDUCER  
 TEES  
 VERTICAL OFFSET

MINIMUM RESTRAINT LENGTH  
 MINIMUM DISTANCE FOR RESTRAINT  
 MIN. OF SOLID PIPE (TYP.)  
 TEE RUN  
 BRANCH1  
 MINIMUM RESTRAINT LENGTH  
 MINIMUM RESTRAINT LENGTH (TYP.)  
 ALL FITTINGS AND JOINTS SHALL BE RESTRAINED

NOTES:  
 1) THE EXACT LENGTHS FOR RESTRAINT ARE SHOWN IN EXHIBIT III-C-9

REVISIONS	
DATE: 01/20/11	BY: jhs

**WATER MAIN RESTRAINT DETAIL**  
 SCALE: NOT TO SCALE  
 CHECKED: DF  
 DRAWING NUMBER: EXHIBIT III-C-10  
 DATE: 1/04  
 DRAWN: NM

**OFFSET HYDRANT DETAIL**

FIRE HYDRANT  
 2" - 1" MIN.  
 AUXILIARY GATE VALVE  
 MIN. OFFSET 2.5' - CAN VARY PER WATERMAIN SIZE  
 MECHANICAL JOINT TEE

REVISIONS	
DATE: 3/09	BY: DG

**OFFSET HYDRANT DETAIL**  
 SCALE: NOT TO SCALE  
 CHECKED: DF  
 DRAWING NUMBER: EXHIBIT III-C-12  
 DATE: 3/09  
 DRAWN: DG

**Minimum Restraint Length (ft) on both sides of the Fitting**

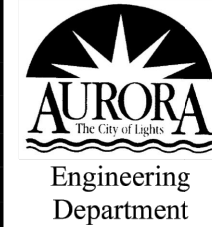
Fitting Type/Nominal Size	6"	8"	12"	16"
11 1/4" Bend	2	3	4	6
22 1/2" Bend	5	6	9	11
45" Bend	10	13	18	23
90" Bend	23	30	43	56
Dead End	31	40	57	74
Top Side of a Vertical Offset <sup>1</sup>	19	25	35	46
Tee Run x Branch <sup>2</sup>	6" BY	24		
Tee Run x Branch <sup>2</sup>	8" BY	22	34	
Tee Run x Branch <sup>2</sup>	12" BY	18	31	51
Tee Run x Branch <sup>2</sup>	16" BY	14	28	48
Reducer <sup>3</sup>	8" BY	17		
Reducer <sup>3</sup>	12" BY	42	30	
Reducer <sup>3</sup>	16" BY	62	54	31

<sup>1</sup> All joints within the lowered section of the watermain shall be restrained or shall be solid pipe. The above distances reflect the required restraint distance on the normally elevated watermain either side of the 45° fitting of the vertical offset (or lowering).

<sup>2</sup> Minimum of 8 ft of solid pipe is required on both sides of the fitting on the run side. Distance indicates the length of restraint on the branch side or the side perpendicular to the tee run watermain.

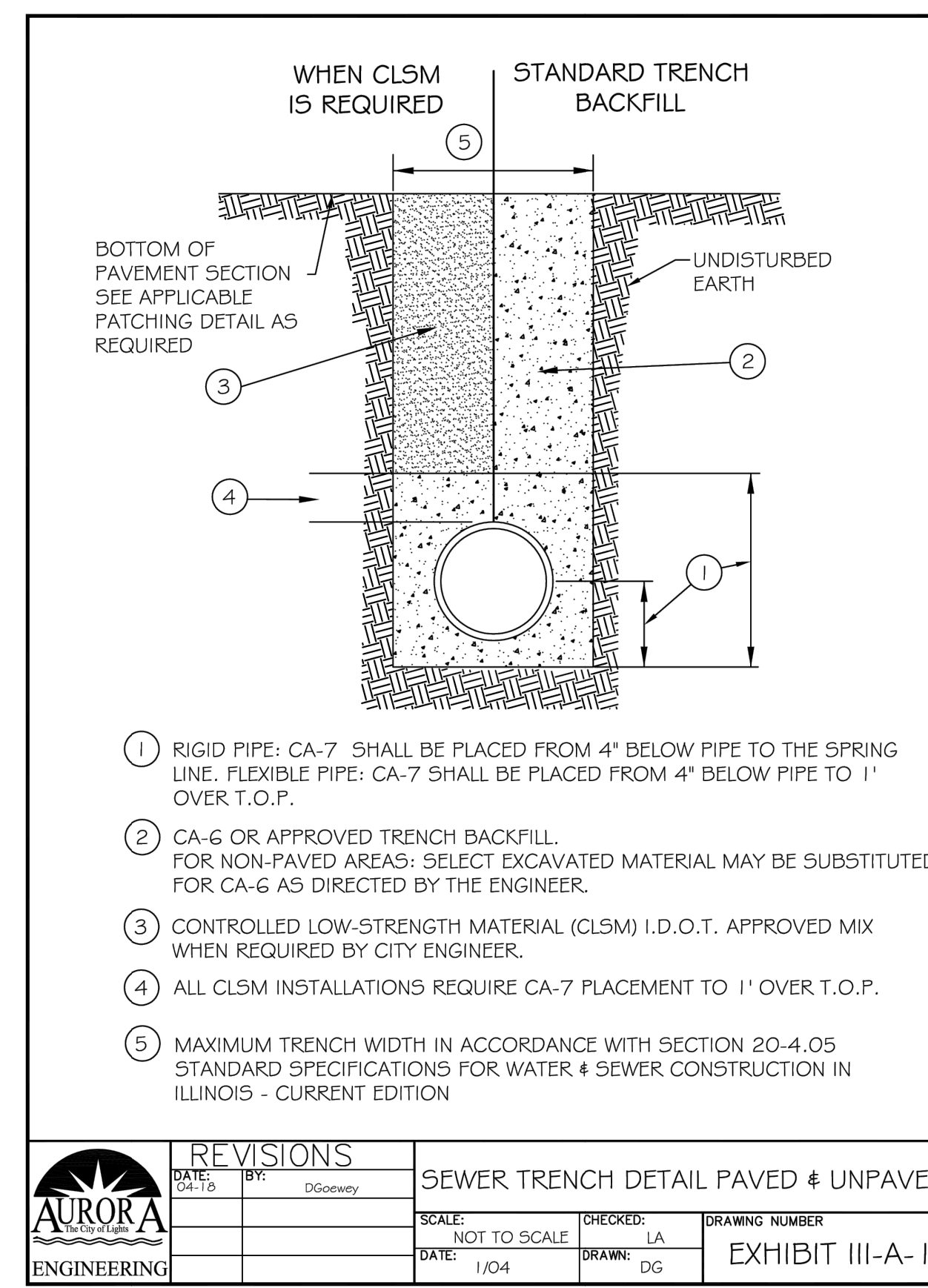
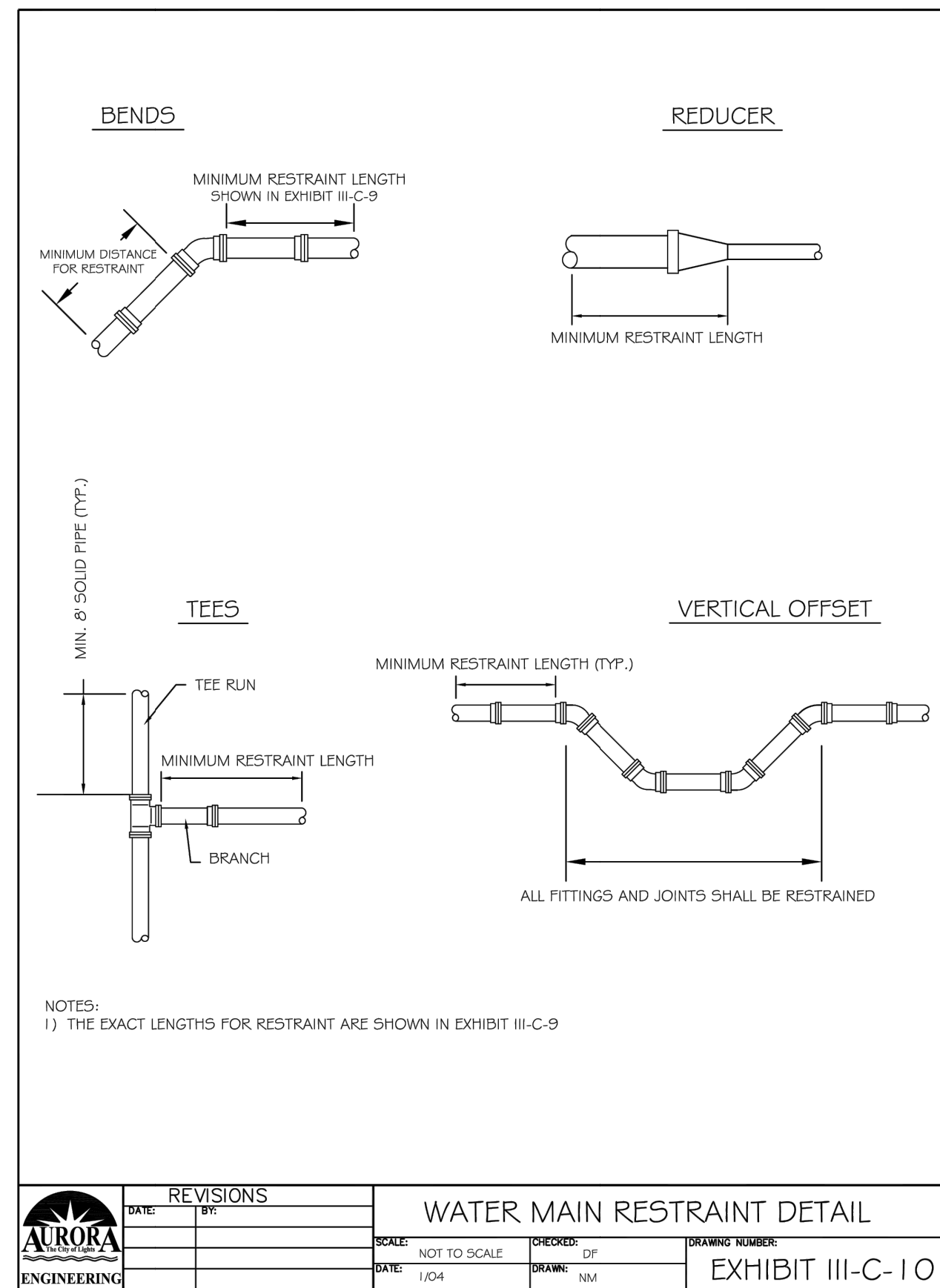
<sup>3</sup> Indicates the distance from the larger end of the reducer.

Notes: 1) All nuts and bolts shall be stainless steel.  
2) The entire restraint system from the fitting to the minimum restraint distance must be inspected by The City of Aurora or its representative prior to backfilling.



Revisions		Watermain Restraint Length Table	
Date:	By:	Scale:	Checked:
		None	PJH
		Date:	Drawn:
		2/04	DF

**EXHIBIT III-C-9**



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) WATER MAINS:

1) HORIZONTAL SEPARATION:

A) WATER MAINS SHALL BE LAID AT LEAST TEN FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED DRAIN, STORM SEWER, SANITARY SEWER, COMBINED SEWER OR SEWER SERVICE CONNECTION.

B) WATER MAINS MAY BE LAID CLOSER THAN TEN FEET TO A SEWER LINE WHEN:

I) LOCAL CONDITIONS PREVENT A LATERAL SEPARATION OF TEN FEET;

II) THE WATER MAIN INVERT IS AT LEAST 18 INCHES ABOVE THE CROWN OF THE SEWER; AND

III) THE WATERMAIN IS EITHER IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON AN UNDISTURBED EARTH SHELF LOCATED TO ONE SIDE OF THE SEWER.

C) BOTH THE WATER MAIN AND DRAIN OR SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, ASBESTOS-CEMENT PRESSURE PIPE, PRESTRESSED CONCRETE PIPE, OR PVC PIPE MEETING THE REQUIREMENTS OF SECTION 653.111 WHEN IT IS IMPOSSIBLE TO MEET (A) OR (B) ABOVE. THE DRAIN OR SEWER SHALL BE PRESSURE TESTED TO THE MAXIMUM EXPECTED SURCHARGE HEAD BEFORE BACKFILLING.

2) VERTICAL SEPARATION:

A) A WATER MAIN SHALL BE LAID SO THAT ITS INVERT IS 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 FEET HORIZONTALLY OF ANY SEWER OR DRAIN CROSSED. A LENGTH OF WATER MAIN PIPE SHALL BE CENTERED OVER THE SEWER TO BE CROSSED WITH JOINTS EQUIDISTANT FROM THE SEWER OR DRAIN.

B) BOTH THE WATER MAIN AND SEWER SHALL BE CONSTRUCTED OF SLIP-ON OR MECHANICAL JOINT CAST OR DUCTILE IRON PIPE, ASBESTOS-CEMENT PRESSURE PIPE, PRESTRESSED CONCRETE PIPE, OR PVC PIPE MEETING REQUIREMENTS OF SECTION 653.111 WHEN:

I) IT IS IMPOSSIBLE TO OBTAIN THE PROPER VERTICAL SEPARATION AS DESCRIBED IN (A) ABOVE; OR

II) THE WATER MAIN PASSES UNDER A SEWER OR DRAIN.

C) 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.

D) CONSTRUCTION SHALL EXTEND ON EACH SIDE OF THE CROSSING UNTIL THE NORMAL DISTANCE FROM THE WATER MAIN TO THE SEWER OR DRAIN LINE IS AT LEAST TEN FEET.

B) WATER SERVICE LINES:

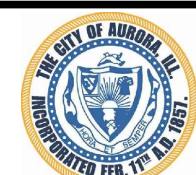
1) THE HORIZONTAL AND VERTICAL SEPARATION BETWEEN WATER SERVICE LINES AND ALL STORM SEWERS, SANITARY SEWERS, COMBINED SEWERS OR ANY DRAIN OR SEWER SERVICE CONNECTION SHALL BE THE SAME AS WATER MAIN SEPARATION DESCRIBED IN (A) ABOVE.

2) WATER PIPE DESCRIBED IN (A) ABOVE SHALL BE USED FOR SEWER SERVICE LINES WHEN MINIMUM HORIZONTAL AND VERTICAL SEPARATION CANNOT BE MAINTAINED.

C) SPECIAL CONDITIONS - ALTERNATE SOLUTIONS SHALL BE PRESENTED TO THE AGENCY WHEN EXTREME TOPOGRAPHICAL, GEOLOGICAL OR EXISTING STRUCTURAL CONDITIONS MAKE STRICT COMPLIANCE WITH (A) AND (B) ABOVE TECHNICALLY AND ECONOMICALLY IMPRACTICAL. ALTERNATE SOLUTIONS WILL BE APPROVED PROVIDED WATERTIGHT CONSTRUCTION STRUCTURALLY EQUIVALENT TO APPROVED WATER MAIN MATERIAL IS PROPOSED.

D) WATER MAINS SHALL BE SEPARATED FROM SEPTIC TANKS, DISPOSAL FIELDS AND SEEPAGE BEDS BY A MINIMUM OF 25 FEET.

E) WATER MAINS AND WATER SERVICE LINES SHALL BE PROTECTED AGAINST ENTRANCE OF HYDROCARBONS THROUGH DIFFUSION THROUGH ANY MATERIAL USED IN CONSTRUCTION OF THE LINE.



CITY OF AURORA  
ENGINEERING DIVISION  
77 SOUTH BROADWAY  
AURORA, ILLINOIS 60505

REVISIONS:

DESIGNED BY:	NS	CHECKED BY:	KM	SCALE:	N.T.S.
DRAWN BY:	MH	APPROVED BY:	KM	DATE:	9/2023

PROJECT

**KEATING DRIVE WATER MAIN IMPROVEMENTS**

SHEET TITLE

**STANDARD DETAILS**

SHEET NUMBER

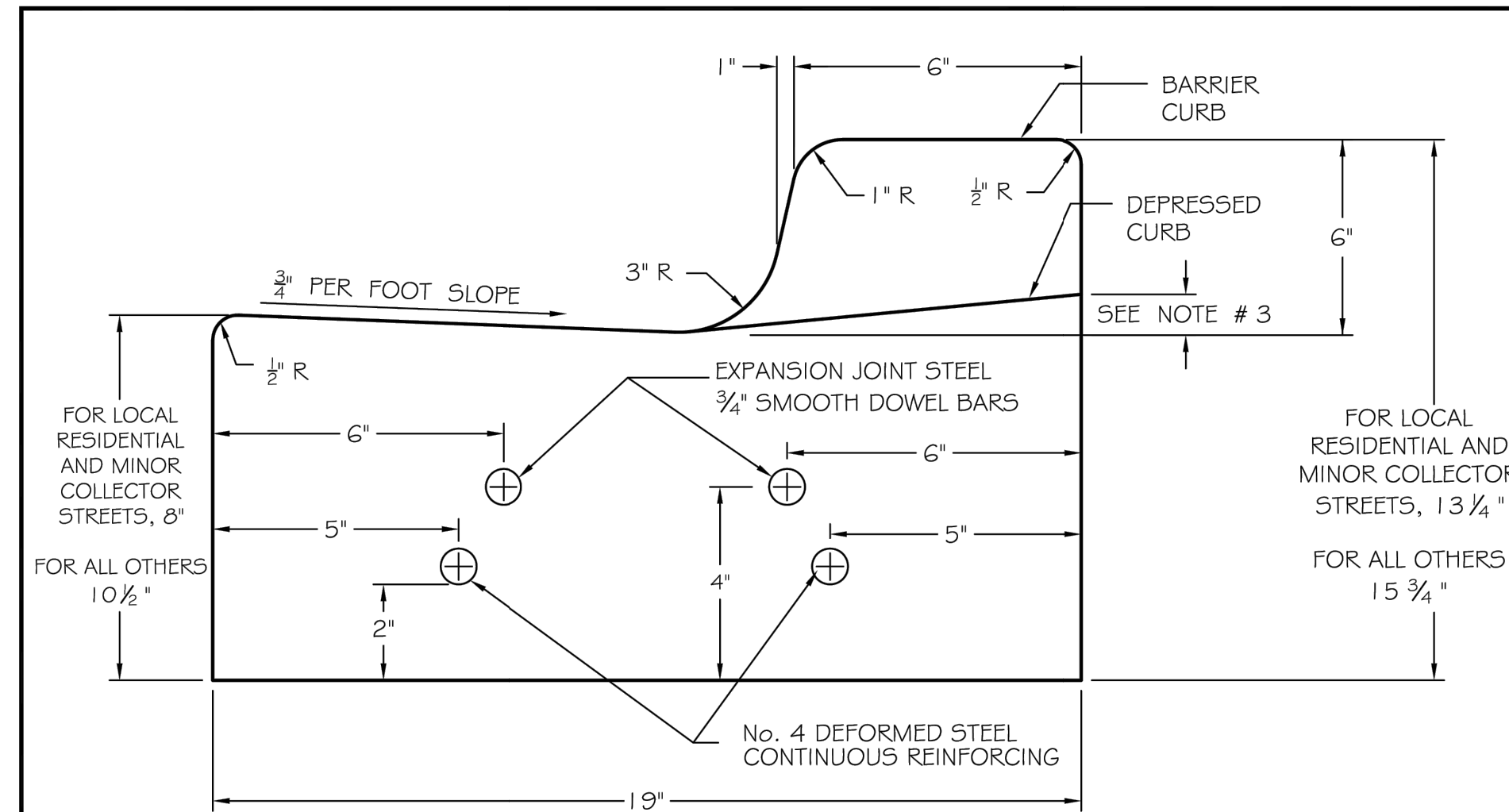
6

TOTAL SHEETS

8

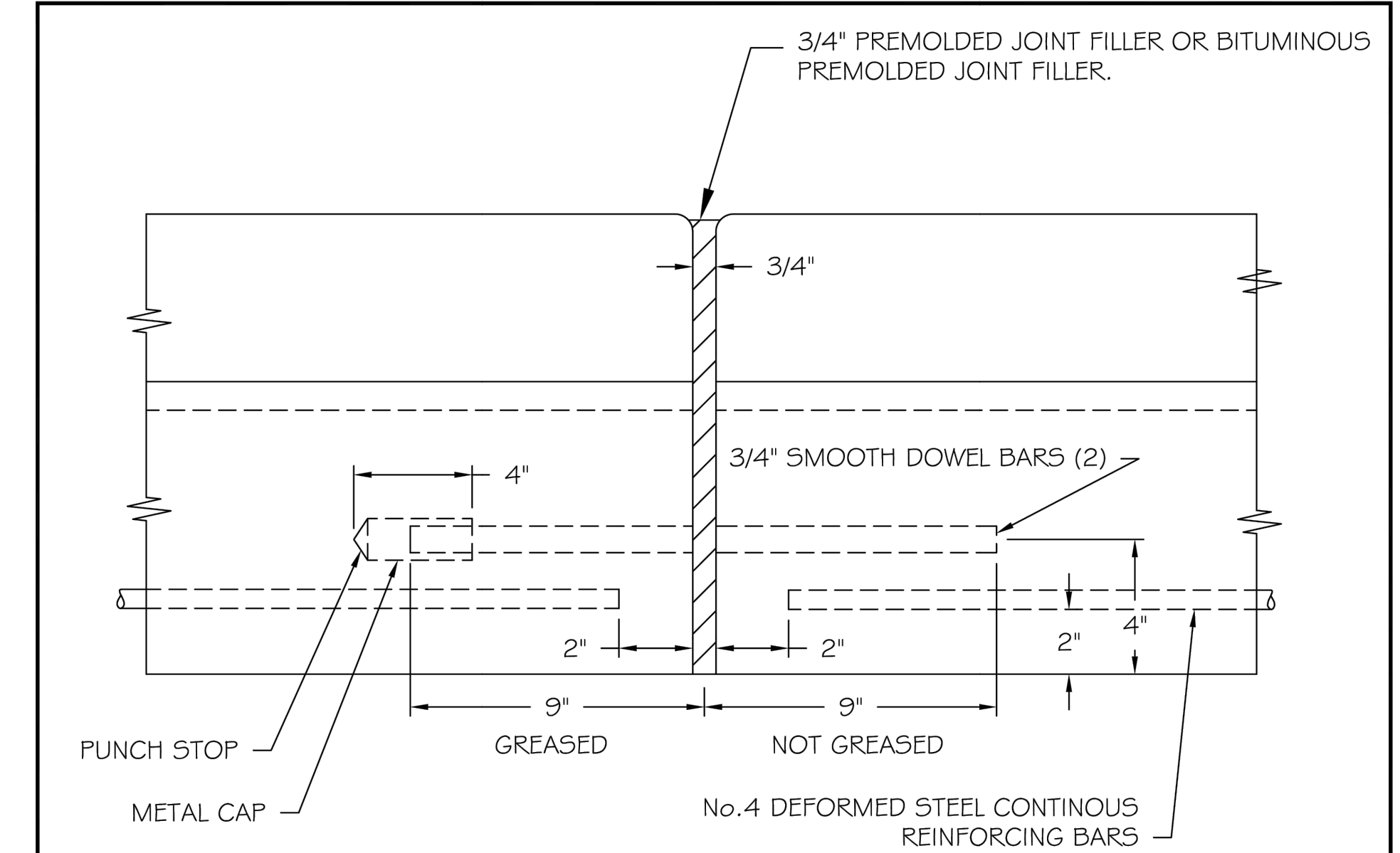
**CURB AND GUTTER GENERAL NOTES:**

1. Contraction joints shall be placed ten (10) feet on centers and shall be saw cut to a minimum depth of two (2) inches from front to back within twenty four (24) hours of concrete placement.
2. The concrete material, curing, protection, and placement for all curb, combination curb and gutter or, depressed curb and gutter shall meet the requirements of Articles 606, 1020, 1021, 1022, and 1023 of the State of Illinois "Standard Specifications for Road and Bridge Construction", latest edition. Membrane curing and concrete sealing shall be accompanied by W.R. Meadows CS-309 Cure and Seal or approved equal like Okon S-20. If the forecast indicates temperatures below 32° F, protection methods shall be installed in accordance with the Standard Specifications for Road and Bridge Construction and shall be approved by the City Engineer.
3. The minimum longitudinal curb slope shall be 0.40%.
4. Cuts into the existing curb shall be made full depth with full expansion joints drilled at each per Exhibit II-C-12 herein.

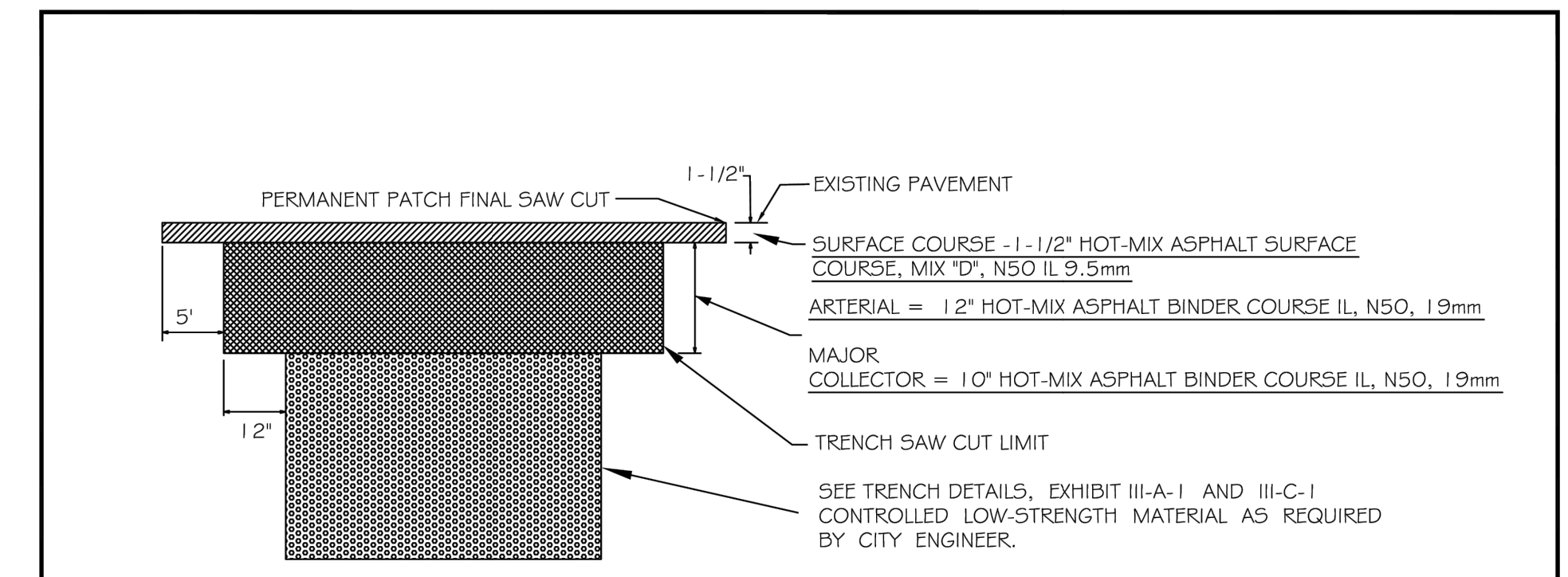


- NOTES: 1. CURB & GUTTER SHALL HAVE A LIGHT BROOM FINISH.  
 2. CURB & GUTTER TO BE PLACED ON MINIMUM COMPACTED 4" CA-7 LIMESTONE BASE.  
 3. EQUALS 2" AT DRIVEWAYS, 1/2" MAXIMUM AT ACCESSIBLE CURB RAMPS.

REVISIONS		CONCRETE CURB & GUTTER		
DATE: 02/2013	BY: DG	SCALE: NOT TO SCALE	CHECKED: DF	DRAWING NUMBER: EXHIBIT II-C-4
		DATE: 1/04	DRAWN: NM	



REVISIONS		EXPANSION JOINT DETAIL		
DATE: 07/2013	BY: DG	SCALE: NOT TO SCALE	CHECKED: DF	DRAWING NUMBER: EXHIBIT II-C-12
		DATE: 1/04	DRAWN: NM	

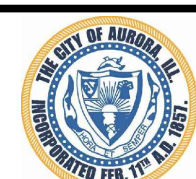


- NOTES:
1. A STEEL PLATE SHALL BE PLACED OVER ANY TRENCH REMAINING OPEN TO TRAFFIC PRIOR TO THE INSTALLATION OF THE HOT-MIX BINDER AND SURFACE COURSES.
  2. THE ENTIRE STREET FROM CURB TO CURB OR JOINT TO JOINT SHALL BE RESURFACED UNLESS EXPRESSLY PERMITTED BY THE CITY ENGINEER OR HIS DESIGNEE. THE PERMANENT PATCH SHALL BE MILLED SQUARE OR RECTANGULAR AND SHALL ENCOMPASS THE TRENCH AREA WITH A MINIMUM OF FIVE FEET (5') BEYOND THE WIDEST OR LONGEST SAW CUT LIMITS OF THE TRENCH.
  3. THE EDGES OF THE EXISTING PAVEMENT SHALL BE SAW CUT AND PRIMED PRIOR TO THE PLACEMENT OF THE SURFACE COURSE.
  4. ANY SURFACE VARIATIONS 1/4" OR GREATER SHALL BE CORRECTED BY REMOVAL AND REPLACEMENT.
  5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TRAFFIC CONTROL IN ACCORDANCE WITH IDOT SPECIFICATIONS.
  6. ALL MATERIAL SHALL MEET CURRENT IDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

REVISIONS		ARTERIAL AND MAJOR COLLECTOR PERMANENT PATCH DETAIL		
DATE: 04-18	BY: DGoewey	SCALE: NOT TO SCALE	CHECKED: DF	DRAWING NUMBER: EXHIBIT II-C-3
		DATE: 1/04	DRAWN: NM	

REVISIONS		CURB AND GUTTER GENERAL NOTES		
DATE: 01/2011	BY: jps	SCALE:	CHECKED:	DRAWING NUMBER:
02/2013	DG	DATE: 03/08	DRAWN: J. MOORE	EXHIBIT II-C-5

PLOT DATE: 4/1/2024 10:53 AM LAST SAVED BY: Hoppm FILEPATH: P:\ENGINEERING\CAPITAL IMPROVEMENT PROJECTS\2023 PROJECTS\KEATING DRIVE WM EXTENSION\CAD\FINAL DRAWINGS\DETAILS - KEATING.DWG



CITY OF AURORA  
 ENGINEERING DIVISION  
 77 SOUTH BROADWAY  
 AURORA, ILLINOIS 60505

REVISIONS:

DESIGNED BY: NS	CHECKED BY: KM	SCALE: N.T.S.
DRAWN BY: MH	APPROVED BY: KM	DATE: 9/2023

PROJECT

KEATING DRIVE WATER MAIN IMPROVEMENTS

SHEET NUMBER

7

SHEET TITLE

STANDARD DETAILS

TOTAL SHEETS

8

PLOT DATE: 4/1/2024 10:53 AM LAST SAVED BY: hppm FILEPATH: P:\ENGINEERING\CAPITAL IMPROVEMENT PROJECTS\2023 PROJECTS\2023 WATER MAIN PROJECTS\KEATING DRIVE WM EXTENSION\CAD\FINAL DRAWINGS\DETAILS - KEATING DWG

### DANDY DEWATERING BAG™ PLAN INSERT

The Dandy Dewatering Bag™ is not intended for any other use and should not be used for any other purpose.

AVAILABLE IN VARIOUS SHAPES AND SIZES FOR SEDIMENT CONTAINMENT

**Installation**

- Lifting straps, not included, should be placed under the Dandy Dewatering Bag™ to facilitate removal after use.
- Place the Dandy Dewatering Bag™ on a level stabilized area over dense vegetation/straw, or gravel (if increased drainage surface area is needed) or as detailed in plans.
- Insert discharge hose from pump into the Dandy Dewatering Bag™ a minimum of six inches (6") and tightly secure with attached strap to prevent water from flowing out of the unit without being filtered.
- Replace the unit when one half (1/2) full of sediment or when sediment has reduced the flow rate of the pump discharge to an impractical rate.

**Maintenance**

Remove and dispose of the sediment in a manner satisfactory to the engineer/inspector or in one of the following ways:

- Remove the unit and sediment from environmentally sensitive area and waterways. At the approved disposal site open or slit unit, remove sediment and grade smoothly into existing topography. Dispose of the Dandy Dewatering Bag™ no longer in use, at an appropriate recycling or solid waste facility.
- Bury unit on site; remove visible fabric and seed.

DANDY PRODUCTS, INC.  
2011 HARRISBURG PIKE, SUITE R  
GROVE CITY, OHIO 43123

1-800-591-2284  
(local) 614-875-2284  
FAX: 614-875-6305  
E-MAIL: dandy@dandyproducts.com  
www.dandyproducts.com

### SILT FENCE PLAN

**ELEVATION**

Filter Fabric  
Fastener - Min. No. 10 Gage Wire  
4 Per Post Required. (Typ.)  
5' Max (Typ)  
2' Min  
18" Min (Typ)

**FABRIC ANCHOR DETAIL**

Filter Fabric  
Direction Of Flow  
Undisturbed Ground Line  
6" Min  
6" Min  
Compacted Backfill

**NOTES:**

- 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.
- 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 50 for woven.
- Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

REFERENCE Project _____	DESIGNED _____	DATE _____	STANDARD DWG. NO. IL-620
Checked _____	Checked _____	DATE _____	SHEET 1 OF 2
Approved _____	Approved _____	DATE 11-20-01	

### KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT STANDARD NOTES

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL REVISED FEBRUARY 2002.

THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.

PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO: ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE KDSWCD.

THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE KDSWCD.

DURING DEWATERING OPERATIONS, WATER WILL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS. DEWATERING DIRECTLY INTO FIELD TILES OR STORM WATER STRUCTURES IS PROHIBITED. IT IS THE RESPONSIBILITY OF THE LANDOWNER AND/OR GENERAL CONTRACTOR TO INFORM AND SUB-CRONTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.

ALL DROP INLETS ON OR ADJACENT TO THE SITE MUST HAVE A SEDIMENT TRAPPING OR CONTAINMENT DEVICE INSTALLED DURING CONSTRUCTION ACTIVITIES.

ALL ADJACENT STREETS SHALL BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY, AND CLEANED WHEN NECESSARY.

ALL EROSION CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH RAINFALL EVENT OF 0.5" OR MORE.

IN AREAS WHERE WORK IS COMPLETE, PERMANENT STABILIZATION SHALL OCCUR WITHIN 7 DAYS OF COMPLETION, AND IN AREAS WHERE WORK HAS TEMPORARILY CEASED FOR 21 DAYS OR MORE, TEMPORARY STABILIZATION SHALL OCCUR BY THE 14TH DAY AFTER WORK HAS CEASED.

THE CONDITION OF THE CONSTRUCTION SITE FOR WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL. ALL OPEN AREAS THAT ARE TO REMAIN IDLE THROUGHOUT THE WINTER SHALL RECEIVE TEMPORARY EROSION CONTROL MEASURES INCLUDING TEMPORARY SEEDING, MULCHING, AND/OR EROSION CONTROL BLANKET PRIOR TO THE END OF THE FALL GROWING SEASON. THE AREAS TO BE WORKED BEYOND THE END OF THE GROWING SEASON MUST INCORPORATE SOIL STABILIZATION MEASURES THAT DO NOT RELY ON VEGETATIVE COVER SUCH AS EROSION CONTROL BLANKET AND HEAVY MULCHING.

### SOIL STABILIZATION TABLE

REQUIRED FOR ALL DISTURBED GRASS AREAS

CITY OF AURORA MIX

24.93% ASAP PERENNIAL RYEGRASS	24.46% CADDISSECK PERENNIAL RYEGRASS
24.33% GOALKEEPER PERENNIAL RYEGRASS	12.37% GERONIMO KENTUCKY BLUEGRASS
12.29% KENTUCKY BLUEGRASS (VARIETY NOT STATED)	1.34% NERT MATTER
0.28% CROP	0.00% WEED

MULCH: MECHANICALLY CRIMPED STRAW OR HYDRO-MULCH

**CONTRACTOR'S CERTIFICATION:**

I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (LR10) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION

\_\_\_\_\_  
SIGNED DATE \_\_\_\_\_

\_\_\_\_\_  
PRINT NAME \_\_\_\_\_

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

- ### SEQUENCE OF CONSTRUCTION ACTIVITIES
- INSTALL EROSION CONTROL MEASURES
  - CONSTRUCT WATER MAIN
  - BACKFILL WATER MAIN BORE PITS AND TRENCH
  - RESTORE AREAS DISTURBED BY CONSTRUCTION WITH HOT-MIX ASPHALT, CONCRETE, OR APPROPRIATE SEEDING
  - REMOVE TEMPORARY EROSION CONTROL MEASURES ONCE VEGETATION HAS BEEN ESTABLISHED.

### EROSION AND SEDIMENT CONTROLS

REFER TO THE PLAN AND PROFILE SHEETS IN THIS PLAN SET.

EROSION AND SEDIMENT CONTROL MUST BE INSTALLED PER ILLINOIS URBAN MANUAL

TEMPORARY SEEDING - AS NEEDED PER DETAIL

PERMANENT SEEDING - PER PLAN

VEGETATION FILTERS - PRESERVE EXISTING GRASS AND VEGETATION DOWNSTREAM OF IMPROVEMENTS TO ACT AS VEGETATIVE FILTER.

ADDITIONAL EROSION AND SEDIMENT CONTROLS WILL BE INSTALLED AT THE DIRECTION OF THE CITY OR RESIDENT ENGINEER.

PERMANENT STABILIZATION - ALL DISTURBED AREAS WILL BE SEEDED, FERTILIZED, AND BLANKETED.

### SEEDING SCHEDULE

	JAN	FEB	MARCH	APRIL	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
PERMANENT SEEDING MIXTURE												
NON IRRIGATED												
IRRIGATED												
DORMANT (DOUBLE RATE)												
TEMPORARY SEEDING MIXTURE												
RYE OR WHEAT												
OATS												
MULCHING												

### INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION

GRATE  
CASTING  
SUPPORT SYSTEM WITH LIFT HANDLES  
SEDIMENT BAG/FILTER  
INLET STRUCTURE  
OVERFLOW AREA

SEE DETAIL ABOVE  
GRATE  
COVER  
CASTING  
SUPPORT SYSTEM WITH LIFT HANDLES  
SEDIMENT BAG/FILTER  
INLET STRUCTURE  
STORM SEWER

REFERENCE Project _____	DESIGNED _____	DATE _____	STANDARD DWG. NO. IUM-561D
Checked _____	Checked _____	DATE _____	SHEET 1 OF 1
Approved _____	Approved _____	DATE 01-11-11	

### SILT FENCE - SPLICING TWO FENCES

**Step 1**

**Step 2**

**Step 3**

**ATTACHING TWO SILT FENCES**

- Place the end post of the second fence inside the end post of the first fence.
- Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
- Cut the fabric near the bottom of the stakes to accommodate the 6" flap.
- Drive both posts a minimum of 18 inches into the ground and bury the flap.
- Compact backfill (particularly at splices) completely to prevent stormwater piping.

REFERENCE Project _____	DESIGNED _____	DATE _____	STANDARD DWG. NO. IUM-620B(W)
Checked _____	Checked _____	DATE _____	SHEET 1 OF 1
Approved _____	Approved _____	DATE 3-16-2012	