

# AURORA ILLINOIS

## PLANS FOR THE PROPOSED PUBLIC WORKS FACILITY SITE WORK PHASE 2

APRIL 2024

GENERALLY LOCATED IN THE NE 1/4 OF SEC. 24, T38N, R8E

### INDEX OF SHEETS

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- 2 OVERALL SITE PLAN
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- 5 - 8 DRAINAGE & GRADING PLANS
- 9-13 GEOMETRIC PLANS
- 14 - 17 STANDARD DETAIL SHEETS

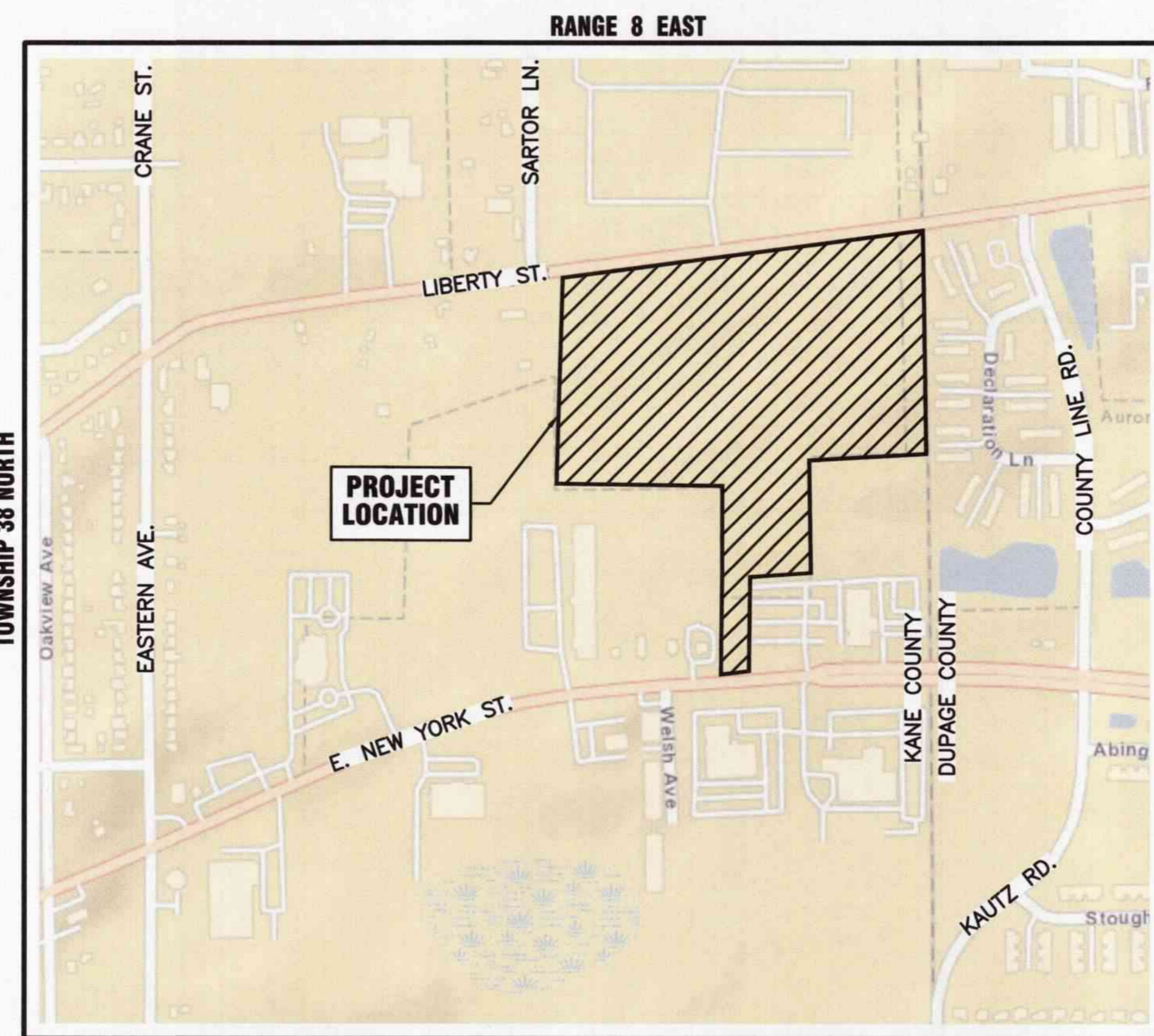


**J.U.L.I.E.**  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
811 OR 1-800-892-0123

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

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

	EXISTING	PROPOSED
SANITARY SEWER	— ) —	— ) —
STORM SEWER	— > —	— > —
WATER MAIN	— W —	— W —
FORCE MAIN	— FM —	— FM —
UNDERDRAIN	— UD —	— UD —
OVERHEAD LINE	— OH —	— OH —
CABLE TV LINE	— CATV —	— CATV —
GAS LINE	— GAS —	— GAS —
TELEPHONE LINE	— T —	— T —
ELECTRIC LINE	— E —	— E —
FENCE	— X —	— X —
MAJOR CONTOUR	— — — —	— — — —
MINOR CONTOUR	— — — —	— — — —
HIGH WATER LEVEL	— HWL —	— HWL —
NORMAL WATER LEVEL	— NWL —	— NWL —
PAVEMENT FLOW DIRECTION	— — — —	— — — —
SPOT ELEVATION	X 882.6	X 882.6
TOP OF CURB ELEVATION	X 882.6 TC	X 882.6 TC
TOP OF FOUNDATION ELEVATION	X 882.6 T/F	X 882.6 T/F
GUTTER ELEVATION	X 882.6 FL	X 882.6 FL
PAVEMENT ELEVATION	X 882.6 P	X 882.6 P
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	⊙	⊙
MAILBOX	⊙	⊙
STRUCTURE TO BE REMOVED	⊙	⊙
PLUG EXISTING PIPE	⊙	⊙
UTILITY CROSSING	⊙	⊙
EXPLORATORY EXCAVATION LOCATION	⊙	⊙
SANITARY MANHOLE REHABILITATION NUMBER	⊙	⊙
SOIL BORING LOCATION WITH IDENTIFICATION NUMBER & ELEVATION	⊙	⊙



KANE COUNTY - AURORA TOWNSHIP  
THIRD PRINCIPAL MERIDIAN

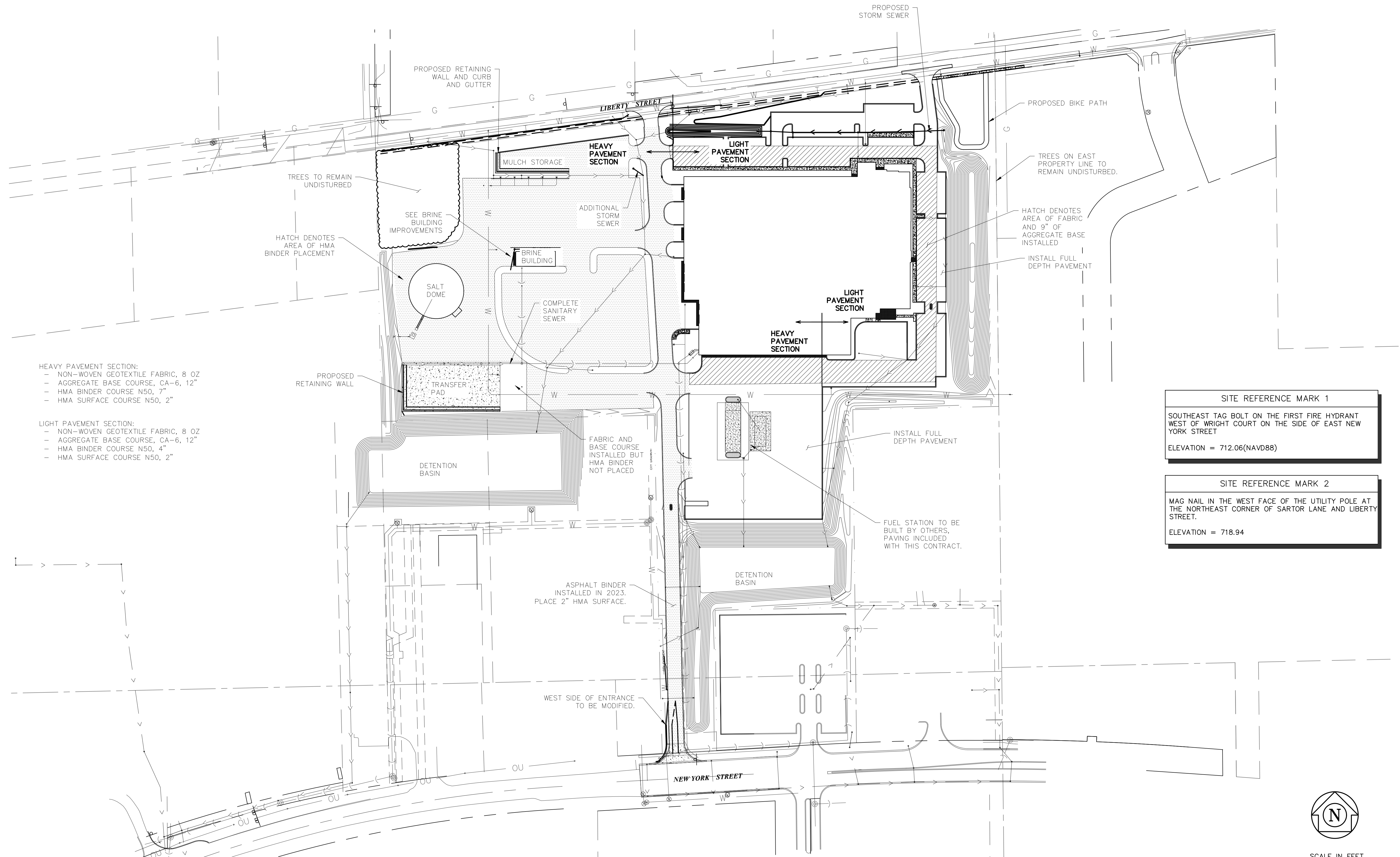
LOCATION MAP  
NOT TO SCALE

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:					
DESIGNED BY: KTM	DRAWN BY: MH	CHECKED BY: KTM	APPROVED BY: KTM	HORIZ. SCALE: N/A	DATE: APR. 2024
				VERT. SCALE: N/A	

STAMP: *Kurtis T. Muth*  
ILLINOIS REGISTERED PROFESSIONAL ENGINEER No. 062.070660  
LICENSE EXPIRES NOVEMBER 30, 2025  
DATE: *4/29/24*

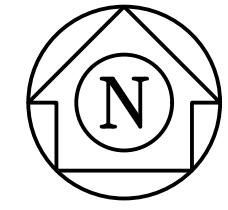
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- HEAVY PAVEMENT SECTION:**
- NON-WOVEN GEOTEXTILE FABRIC, 8 OZ
  - AGGREGATE BASE COURSE, CA-6, 12"
  - HMA BINDER COURSE N50, 7"
  - HMA SURFACE COURSE N50, 2"
- LIGHT PAVEMENT SECTION:**
- NON-WOVEN GEOTEXTILE FABRIC, 8 OZ
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  - HMA BINDER COURSE N50, 4"
  - HMA SURFACE COURSE N50, 2"

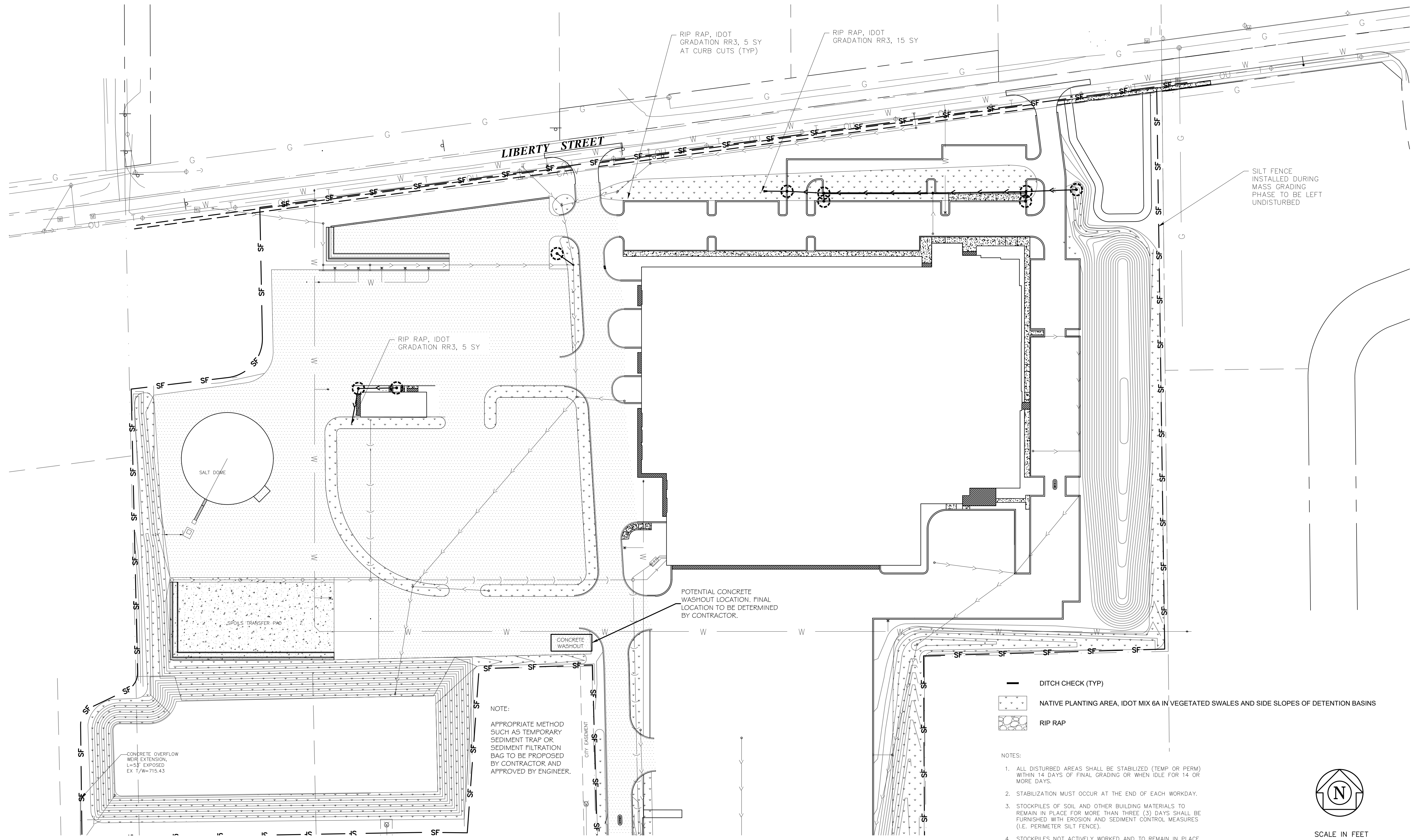
**SITE REFERENCE MARK 1**  
 SOUTHEAST TAG BOLT ON THE FIRST FIRE HYDRANT WEST OF WRIGHT COURT ON THE SIDE OF EAST NEW YORK STREET  
 ELEVATION = 712.06(NAVD88)

**SITE REFERENCE MARK 2**  
 MAG NAIL IN THE WEST FACE OF THE UTILITY POLE AT THE NORTHEAST CORNER OF SARTOR LANE AND LIBERTY STREET.  
 ELEVATION = 718.94



 CITY OF AURORA ENGINEERING DIVISION 77 SOUTH BROADWAY AURORA, ILLINOIS 60505	REVISIONS:	PROJECT <b>PUBLIC WORKS FACILITY - SITE WORK PHASE 2</b>			SHEET NUMBER 2
		DESIGNED BY: KM DRAWN BY: MH	CHECKED BY: KM APPROVED BY: KM	SCALE: 1" = 100' DATE: 4/2024	SHEET TITLE <b>OVERALL SITE PLAN</b>

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

REVISIONS:

DESIGNED BY:	KM	CHECKED BY:	KM	SCALE:	1" = 60'
DRAWN BY:	MH	APPROVED BY:	KM	DATE:	4/2024

PROJECT

**PUBLIC WORKS FACILITY - SITE WORK PHASE 2**

SHEET TITLE

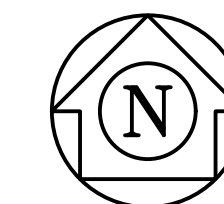
**SOIL & EROSION CONTROL PLAN - NORTH**

SHEET NUMBER

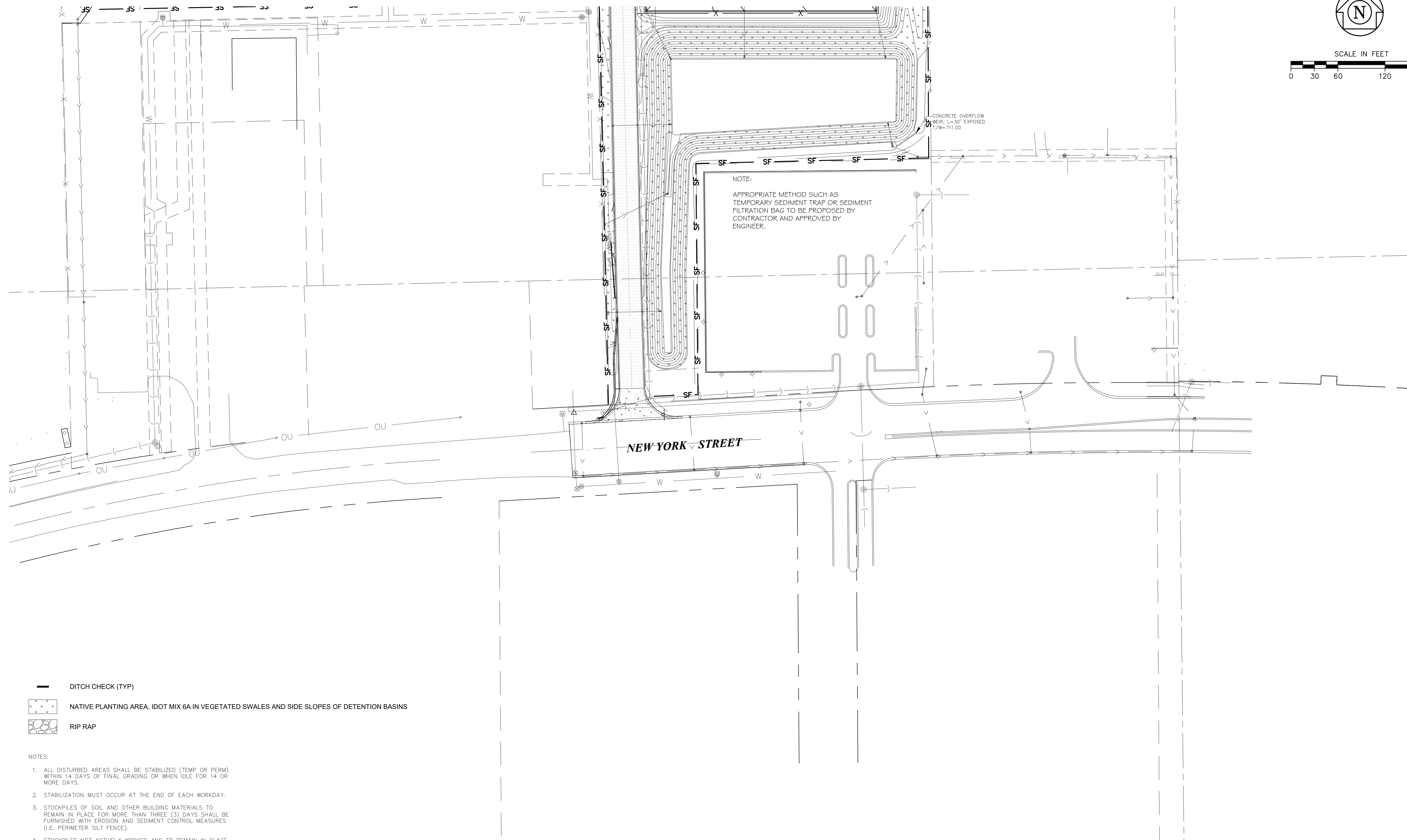
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TOTAL SHEETS

17



SCALE IN FEET  
0 30 60 120 180



NOTE:  
APPROPRIATE METHOD SUCH AS  
TEMPORARY SEDIMENT TRAP OR SEDIMENT  
FILTRATION BAG TO BE PROPOSED BY  
CONTRACTOR AND APPROVED BY  
ENGINEER.

CONCRETE OVERFLOW  
WEIR, L=30' EXPOSED  
1/7W=711.00

NEW YORK STREET

-  DITCH CHECK (TYP)
-  NATIVE PLANTING AREA, IDOT MIX 6A IN VEGETATED SWALES AND SIDE SLOPES OF DETENTION BASINS
-  RIP RAP

- NOTES:
1. ALL DISTURBED AREAS SHALL BE STABILIZED (TEMP OR PERM) WITHIN 14 DAYS OF FINAL GRADING OR WHEN IDLE FOR 14 OR MORE DAYS.
  2. STABILIZATION MUST OCCUR AT THE END OF EACH WORKDAY.
  3. STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE FOR MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE).
  4. STOCKPILES NOT ACTIVELY WORKED AND TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

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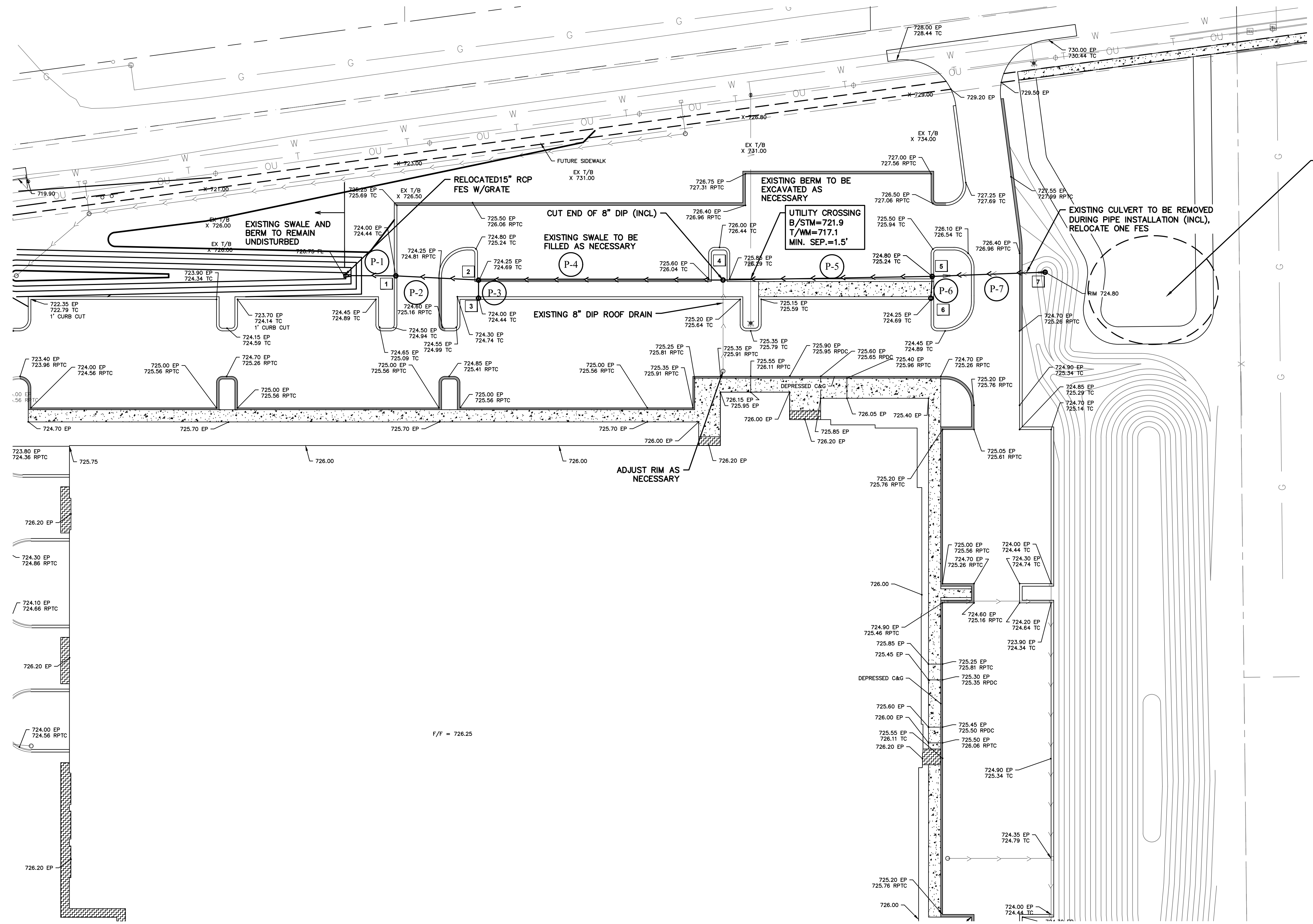
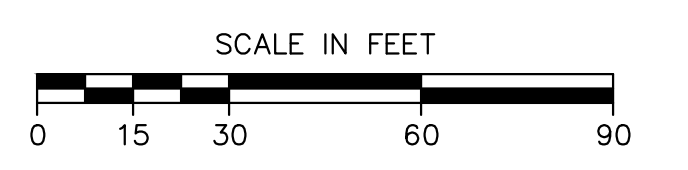
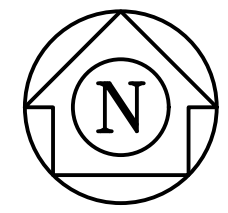


CITY OF AURORA  
ENGINEERING DIVISION  
77 SOUTH BROADWAY  
AURORA, ILLINOIS 60505

REVISIONS:			
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DESIGNED BY:	KM	CHECKED BY:	KM	SCALE:	1" = 60'
DRAWN BY:	MH	APPROVED BY:	KM	DATE:	4/2024

PROJECT	PUBLIC WORKS FACILITY - SITE WORK PHASE 2	SHEET NUMBER	4
SHEET TITLE	SOIL & EROSION CONTROL PLAN - SOUTH	TOTAL SHEETS	17



TOPSOIL STOCKPILE TO BE RELOCATED ON-SITE WITH A MINIMUM THICKNESS OF 6", CONTRACTOR TO FURNISH TOPSOIL AS NEEDED TO RESTORE REMAINING AREAS AFTER STOCKPILE IS EXHAUSTED

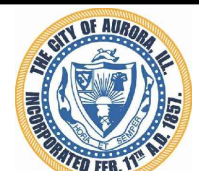
- 1 STORM MANHOLE NO. 1  
STORM MANHOLE TY A, 4' DIA  
W/R-3015 FR & TY R GR  
T/C=724.69  
INV=720.90 W & E, 15" RCP
- 2 STORM MANHOLE NO. 2  
STORM MANHOLE TY A, 4' DIA  
W/R-3015 FR & TY R GR  
T/C=724.69  
INV=721.10 W & E, 15" RCP  
INV=721.10 S, 12" RCP
- 3 CATCH BASIN NO. 3  
CATCH BASIN TY C, 2' DIA  
W/R-3015 FR & TY R GR  
T/C=724.44  
INV=721.20 N, 12" RCP
- 4 STORM MANHOLE NO. 4  
STORM MANHOLE TY A, 4' DIA  
W/R-1713 FR & CL  
RIM=726.45  
INV=721.65 E & W, 15" RCP  
INV=722.70 S, 8" DIP
- 5 STORM MANHOLE NO. 5  
STORM MANHOLE TY A, 4' DIA  
W/R-3015 FR & TY R GR  
T/C=725.24  
INV=722.10 W, 15" RCP  
INV=722.10 E, 12" RCP  
INV=722.10 S, 12" RCP
- 6 CATCH BASIN NO. 6  
CATCH BASIN TY C, 2' DIA  
W/R-3015 FR & TY R GR  
T/C=724.69  
INV=722.30 N, 12" RCP
- 7 CATCH BASIN NO. 7  
CATCH BASIN TY C, 2' DIA  
W/R-4342 GR  
RIM=725.00  
INV=723.30 W, 12" RCP

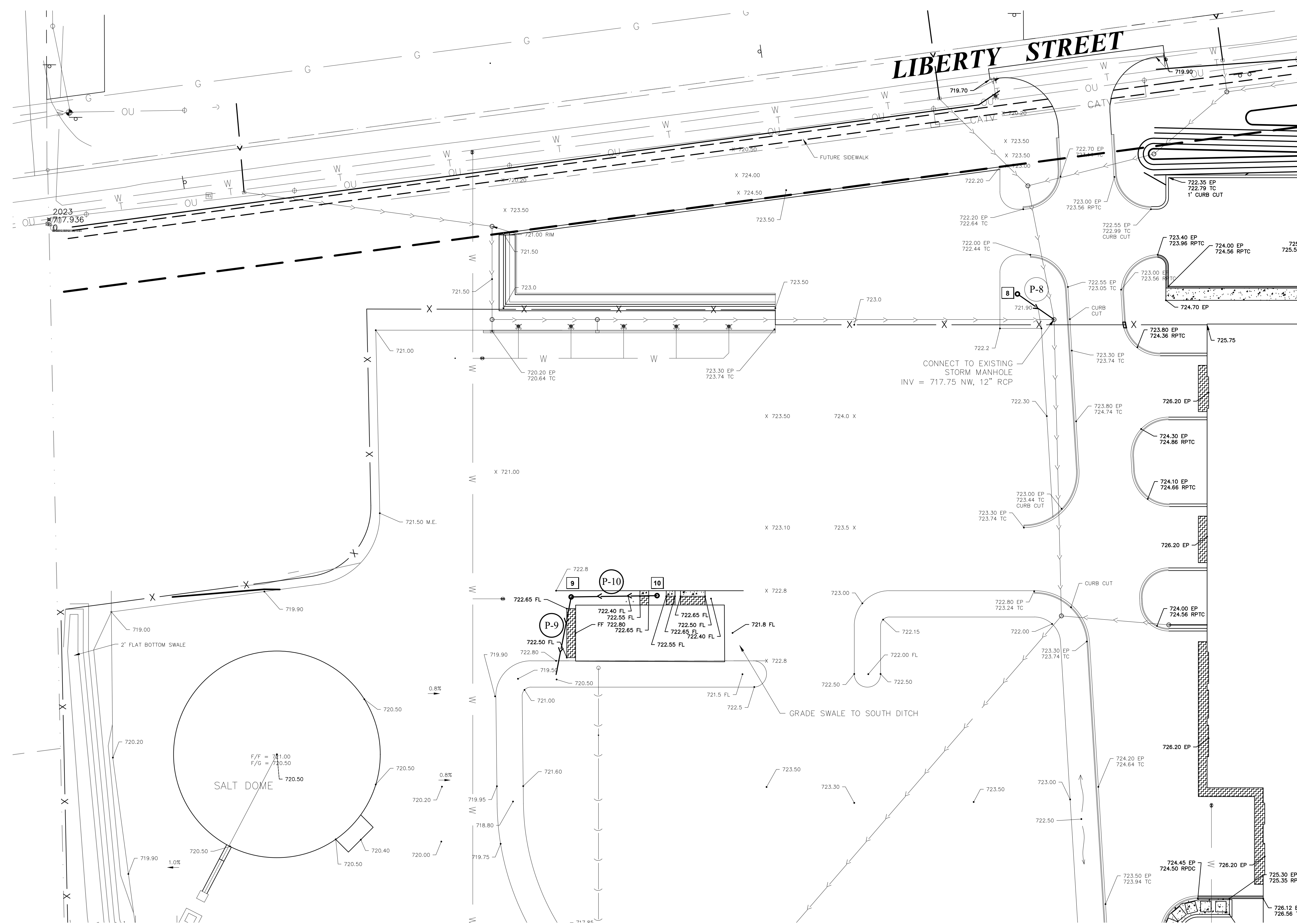
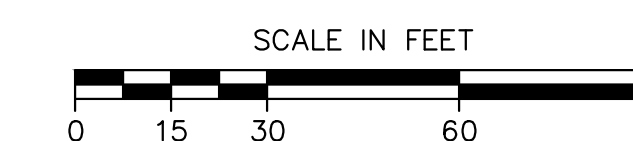
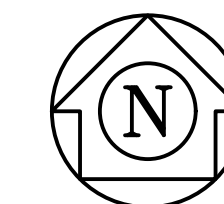
- P-1 PR. STORM SEWER, RCP, 15" @ 0.50% - 30 FT (INCLUDING FES)
- P-2 PR. STORM SEWER, RCP, 15" @ 0.43% - 47 FT
- P-3 PR. STORM SEWER, RCP, 12" @ 1.00% - 10 FT
- P-4 PR. STORM SEWER, RCP, 15" @ 0.39% - 140 FT
- P-5 PR. STORM SEWER, RCP, 15" @ 0.38% - 119 FT
- P-6 PR. STORM SEWER, RCP, 12" @ 1.54% - 13 FT
- P-7 PR. STORM SEWER, RCP, 12" @ 1.85% - 65 FT

NOTES:

- AREAS AROUND BUILDING AND LANDSCAPING ISLANDS TO BE LEFT 2" LOW AFTER TOPSOIL INSTALLATION UNDER DIRECTION OF ENGINEER FOR FUTURE MULCH PLACEMENT BY OTHERS.
- NORTH PARKING CELL DESIGNED IN PLACE OF EXISTING BERM, BERM TO BE EXCAVATED AND SPOILS REMOVED (TON) AS NECESSARY, CONTRACTOR TO PROVIDE DUMP TICKETS DAILY FOR PAYMENT.

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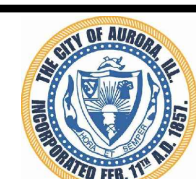
 CITY OF AURORA ENGINEERING DIVISION 77 SOUTH BROADWAY AURORA, ILLINOIS 60505	REVISIONS:	PROJECT <b>PUBLIC WORKS FACILITY - SITE WORK PHASE 2</b>			SHEET NUMBER <b>5</b>
		SHEET TITLE <b>DRAINAGE AND GRADING PLAN - NORTHEAST</b>			
DESIGNED BY: KM    CHECKED BY: KM    SCALE: 1" = 30'		PROJECT NUMBER:			
DRAWN BY: MH    APPROVED BY: KM    DATE: 4/2024		PROJECT NUMBER:			



- 8 CATCH BASIN NO. 8  
CATCH BASIN TY C, 2' DIA  
W/R-4342 GRATE  
RIM=721.00  
INV=718.00 SE, 12" RCP
- 9 STORM INLET NO. 9  
CATCH BASIN TY A, 2' DIA  
W/R-4342 GRATE  
RIM=722.15  
INV=720.75 S & E, 8" PVC
- 10 STORM INLET NO. 10  
CATCH BASIN TY A, 2' DIA  
W/R-4342 GRATE  
RIM=722.30  
INV=721.00 W, 8" PVC

- P-8 PR. STORM SEWER, RCP, 12" @ 1.00% - 25 FT
- P-9 PR. STORM SEWER, PVC C-900, 8" @ 0.56% - 45 FT  
DOWNSTREAM INV = 720.50
- P-10 PR. STORM SEWER, PVC C-900, 8" @ 0.51% - 49 FT

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

REVISIONS:

DESIGNED BY:	KM	CHECKED BY:	KM	SCALE:	1" = 30'
DRAWN BY:	MH	APPROVED BY:	KM	DATE:	4/2024

PROJECT

PUBLIC WORKS FACILITY - SITE WORK PHASE 2

SHEET NUMBER

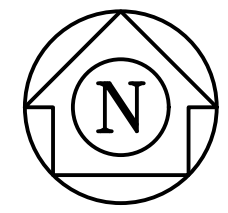
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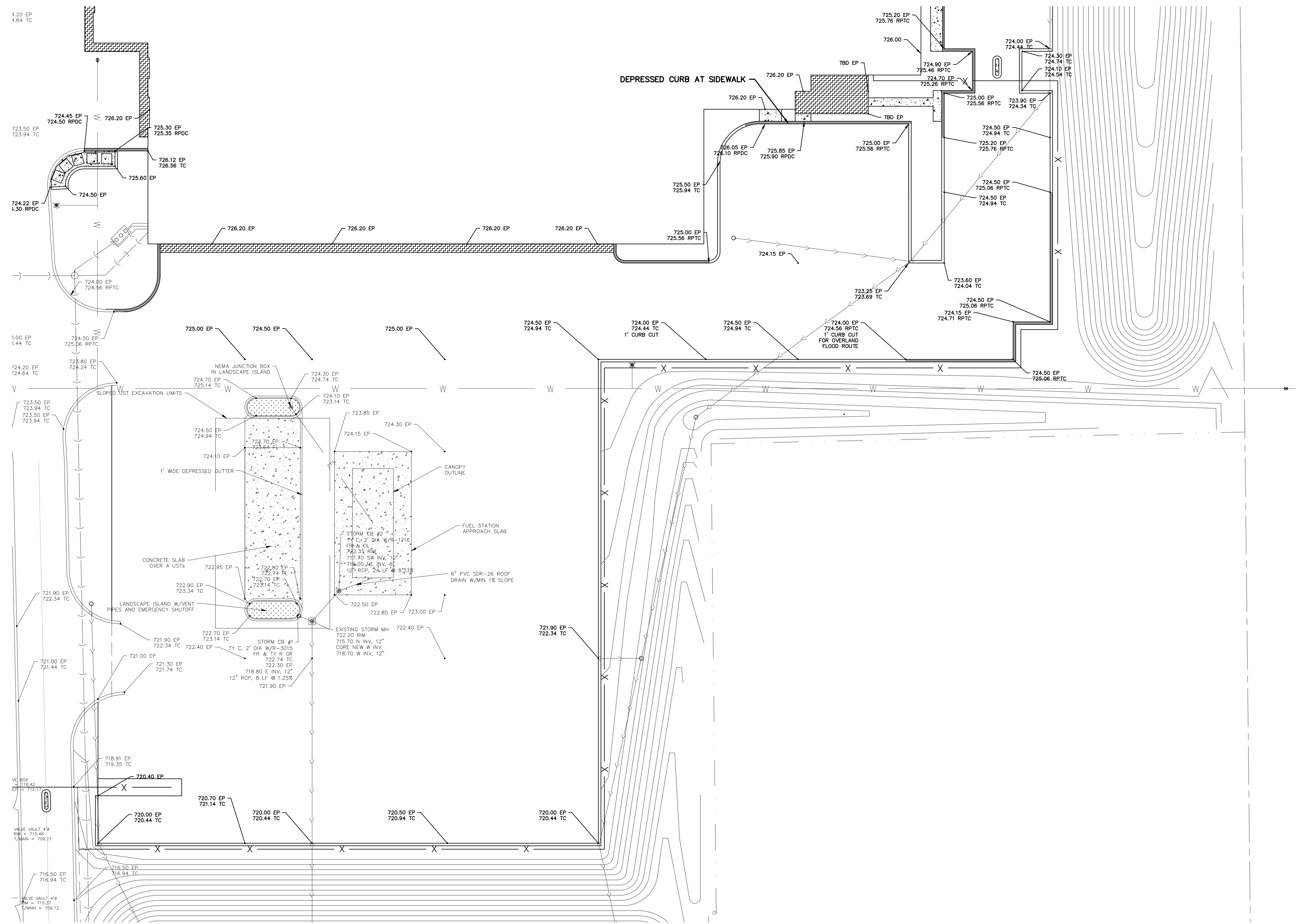
DRAINAGE AND GRADING PLAN - NORTHWEST

TOTAL SHEETS

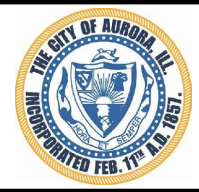
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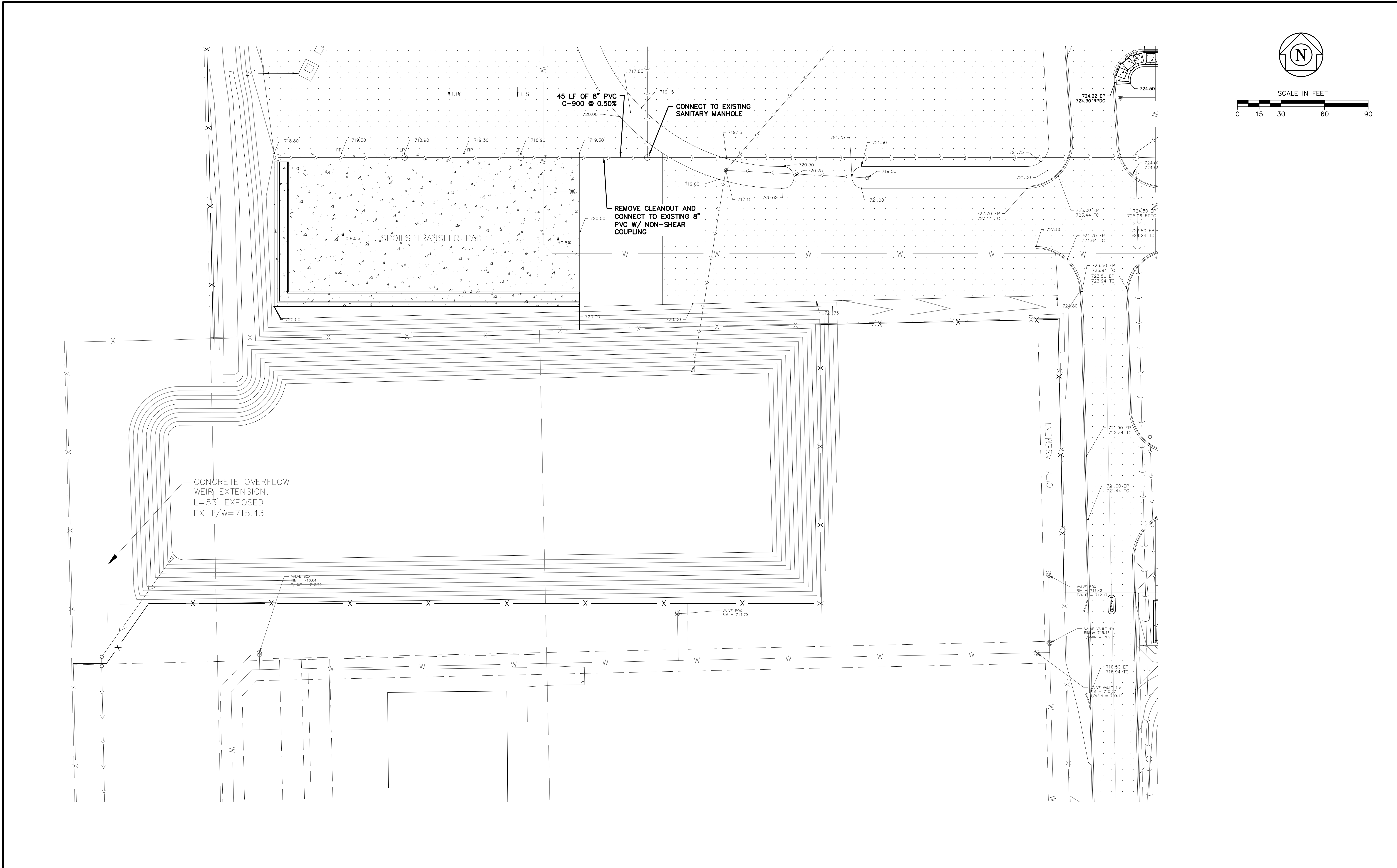
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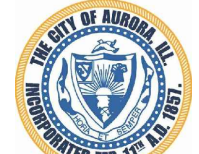


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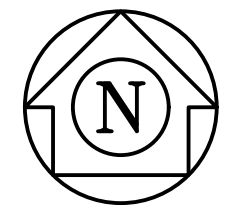
 <b>CITY OF AURORA</b> ENGINEERING DIVISION 77 SOUTH BROADWAY AURORA, ILLINOIS 60505	REVISIONS:	PROJECT <b>PUBLIC WORKS FACILITY - SITE WORK PHASE 2</b>			SHEET NUMBER <b>7</b>
		DESIGNED BY: KM DRAWN BY: MH	CHECKED BY: KM APPROVED BY: KM	SCALE: 1" = 30' DATE: 4/2024	SHEET TITLE <b>DRAINAGE AND GRADING PLAN - SOUTHEAST</b>

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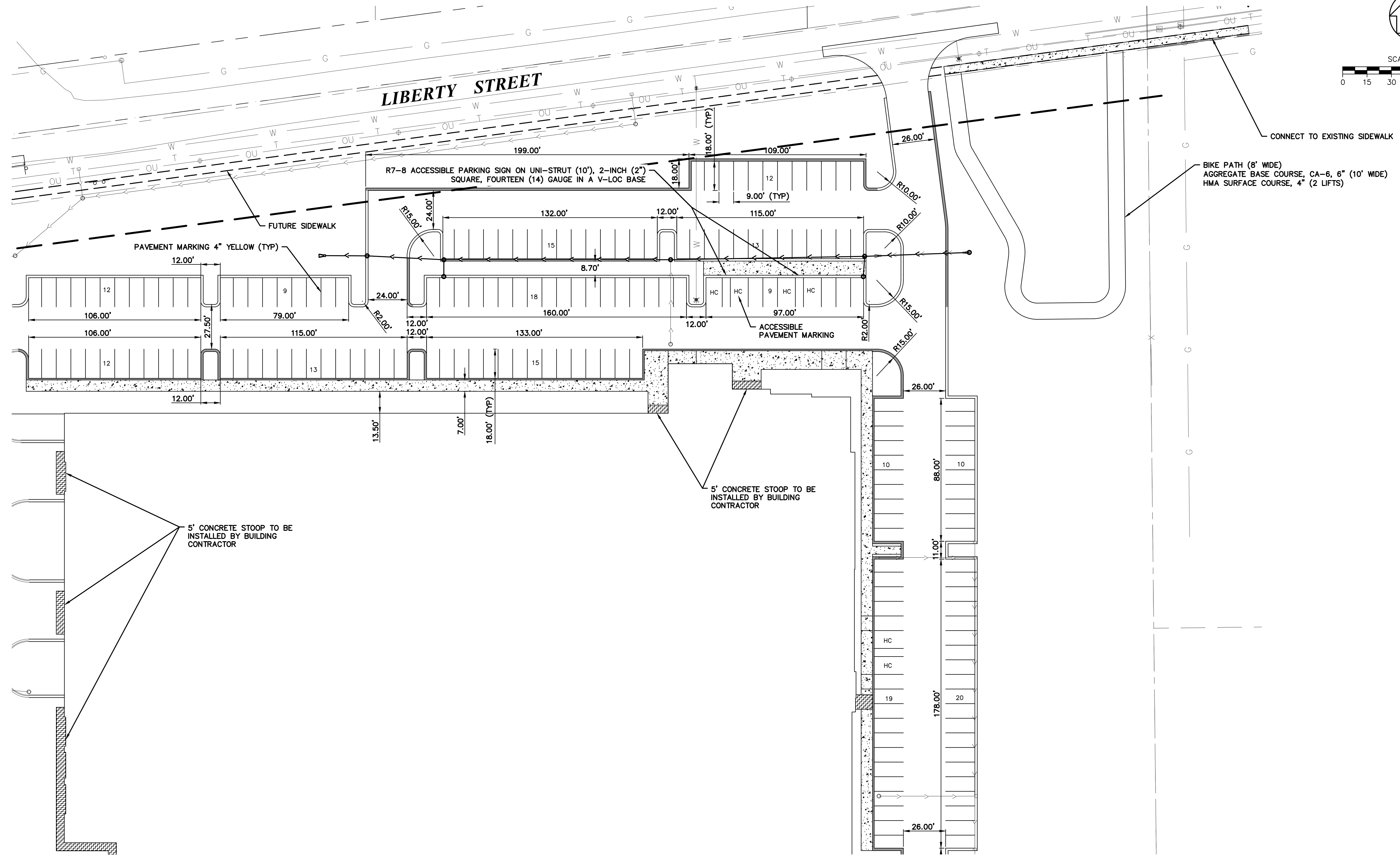


 <p>CITY OF AURORA          ENGINEERING DIVISION          77 SOUTH BROADWAY          AURORA, ILLINOIS 60505</p>	REVISIONS:	PROJECT <b>PUBLIC WORKS FACILITY - SITE WORK PHASE 2</b>			SHEET NUMBER <b>8</b>
		DESIGNED BY: KM DRAWN BY: MH	CHECKED BY: KM APPROVED BY: KM	SCALE: 1" = 30" DATE: 4/2024	SHEET TITLE <b>DRAINAGE AND GRADING PLAN - SOUTHWEST</b>





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REVISIONS:

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DRAWN BY:	MH	APPROVED BY:	KM	DATE:	4/2024

PROJECT

PUBLIC WORKS FACILITY - SITE WORK PHASE 2

SHEET NUMBER

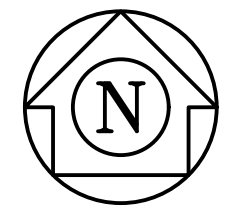
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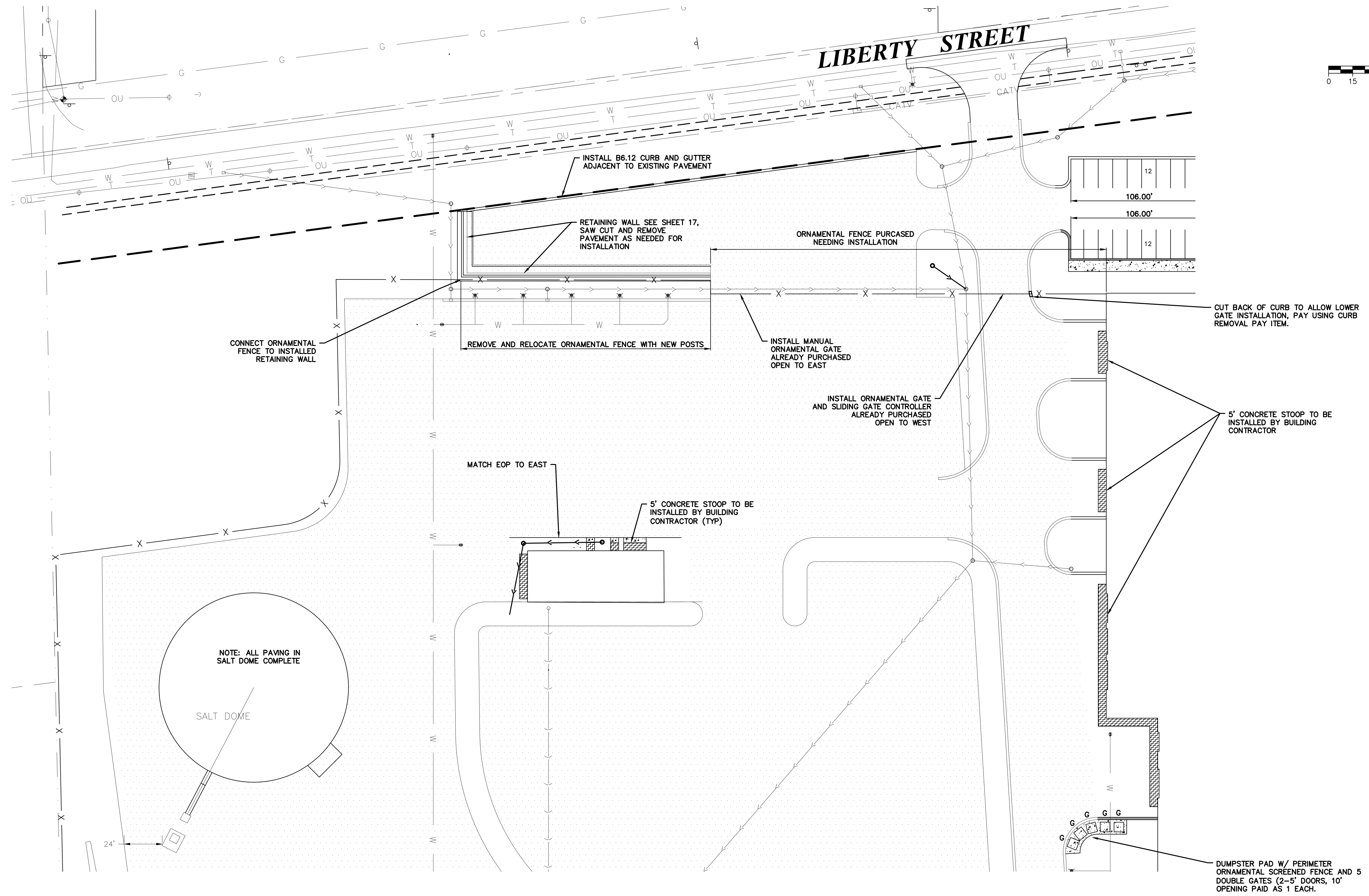
GEOMETRIC PLAN - NORTHEAST

TOTAL SHEETS

17



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AURORA, ILLINOIS 60505

REVISIONS:

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DRAWN BY:	MH	APPROVED BY:	KM	DATE:	4/2024

PROJECT

PUBLIC WORKS FACILITY - SITE WORK PHASE 2

SHEET NUMBER

10

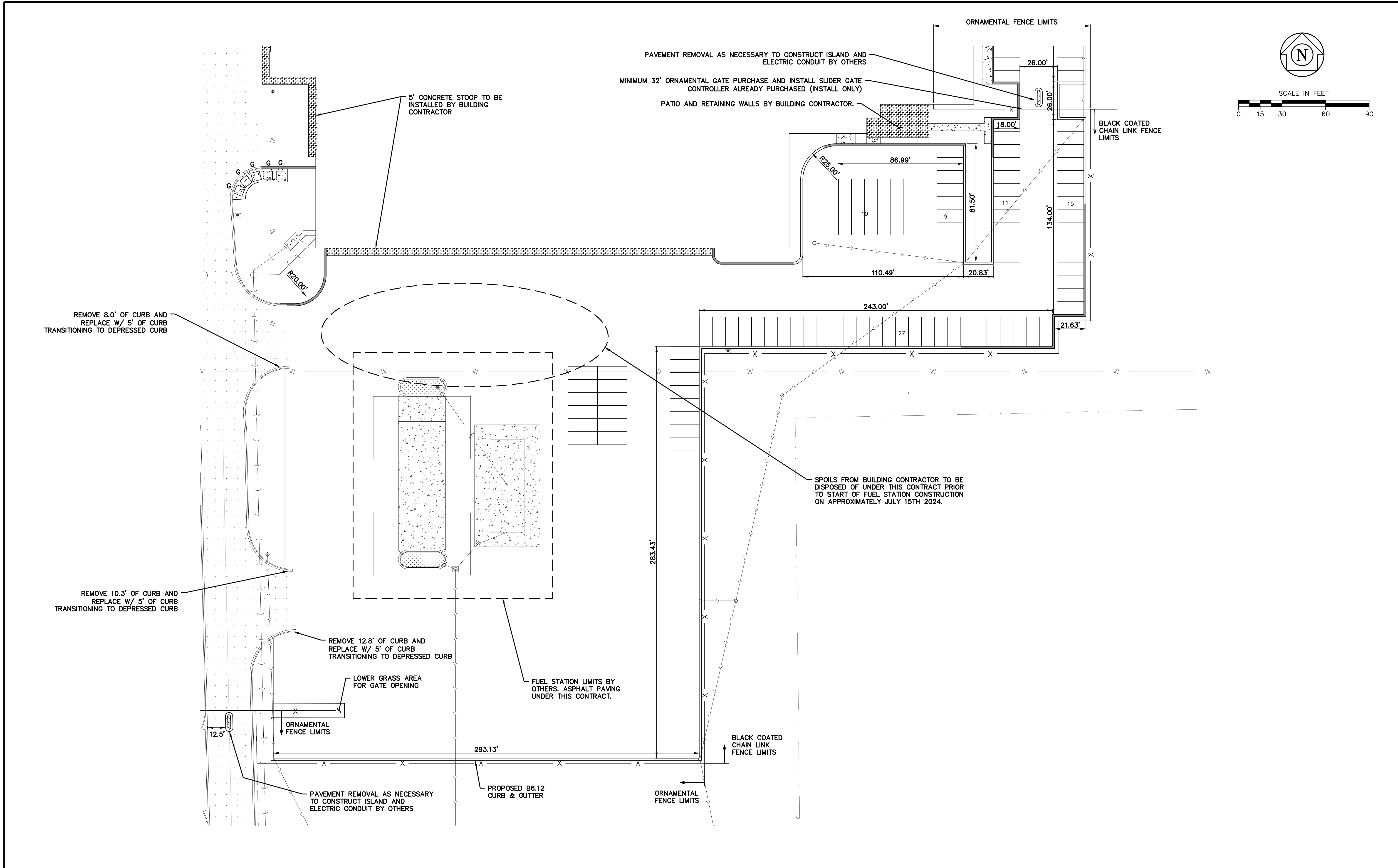
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GEOMETRIC PLAN - NORTHWEST

TOTAL SHEETS

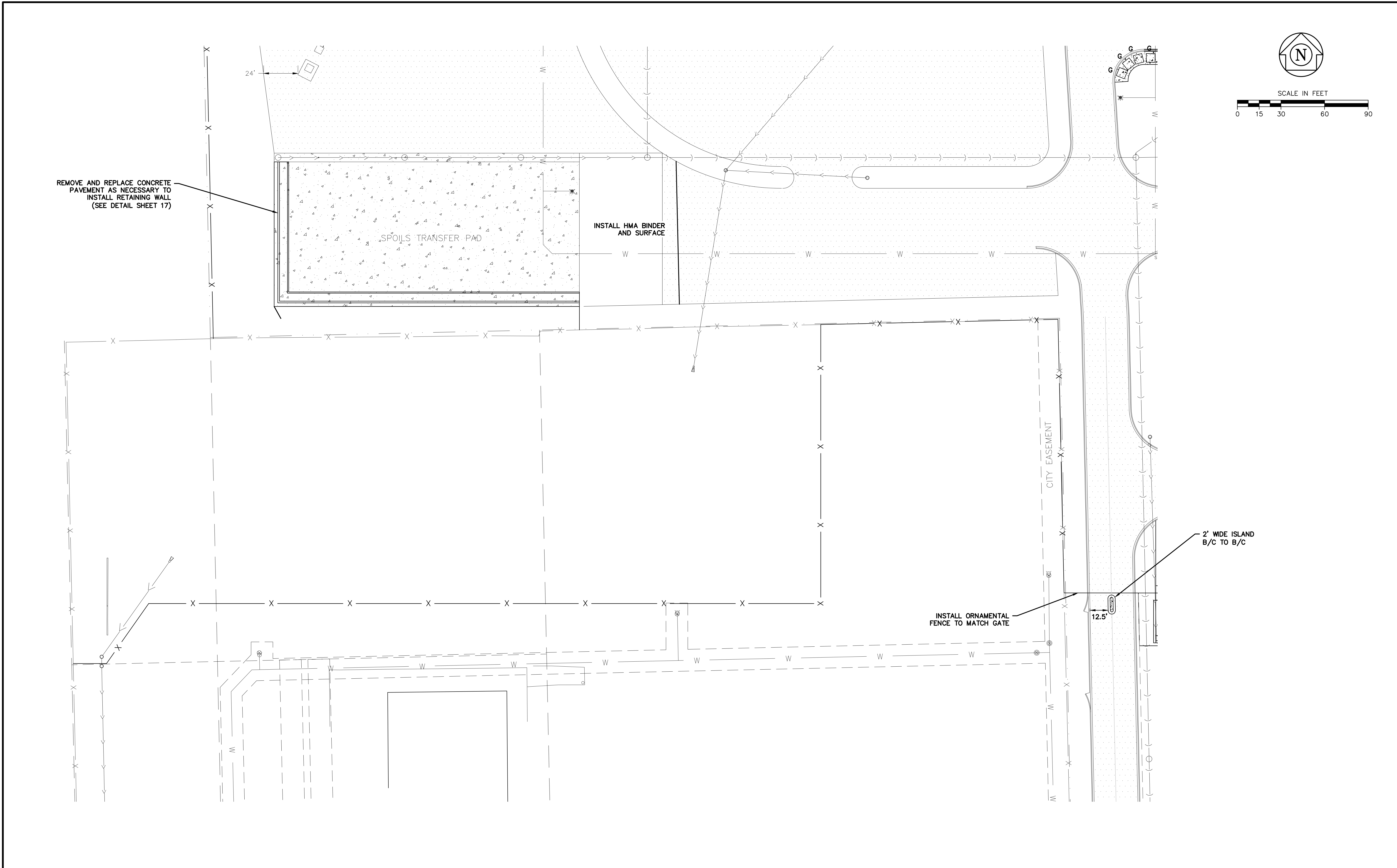
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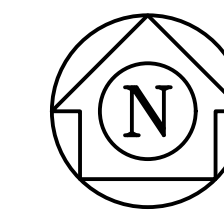


 CITY OF AURORA ENGINEERING DIVISION 77 SOUTH BROADWAY AURORA, ILLINOIS 60505	REVISIONS:	PROJECT <b>PUBLIC WORKS FACILITY - SITE WORK PHASE 2</b>			SHEET NUMBER <b>11</b>
		DESIGNED BY: KM DRAWN BY: MH	CHECKED BY: KM APPROVED BY: KM	SCALE: 1" = 30' DATE: 4/2024	SHEET TITLE <b>GEOMETRIC PLAN - SOUTHEAST</b>

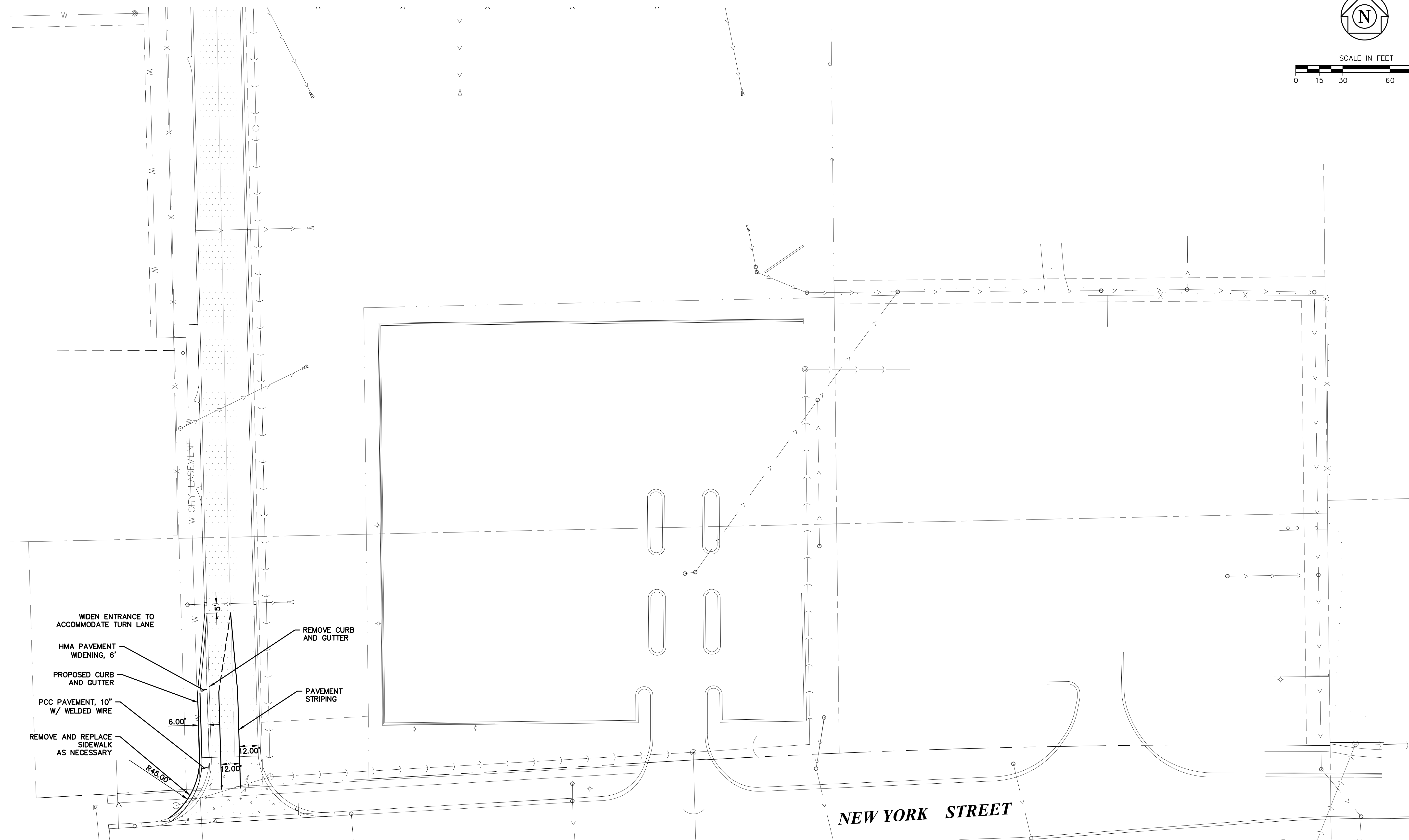
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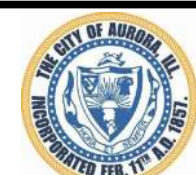
 <p>CITY OF AURORA          ENGINEERING DIVISION          77 SOUTH BROADWAY          AURORA, ILLINOIS 60505</p>	REVISIONS:	PROJECT <b>PUBLIC WORKS FACILITY - SITE WORK PHASE 2</b>			SHEET NUMBER <b>12</b>
		DESIGNED BY: KM DRAWN BY: MH	CHECKED BY: KM APPROVED BY: KM	SCALE: 1" = 30' DATE: 4/2024	SHEET TITLE <b>GEOMETRIC PLAN - SOUTHWEST</b>



SCALE IN FEET  
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PLOT DATE: 4/29/2024 11:24 AM LAST SAVED BY: HoppM  
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CITY OF AURORA  
ENGINEERING DIVISION  
77 SOUTH BROADWAY  
AURORA, ILLINOIS 60505

REVISIONS:

DESIGNED BY:	KM	CHECKED BY:	KM	SCALE:	1" = 30'
DRAWN BY:	MH	APPROVED BY:	KM	DATE:	4/2024

PROJECT

PUBLIC WORKS FACILITY - SITE WORK PHASE 2

SHEET NUMBER

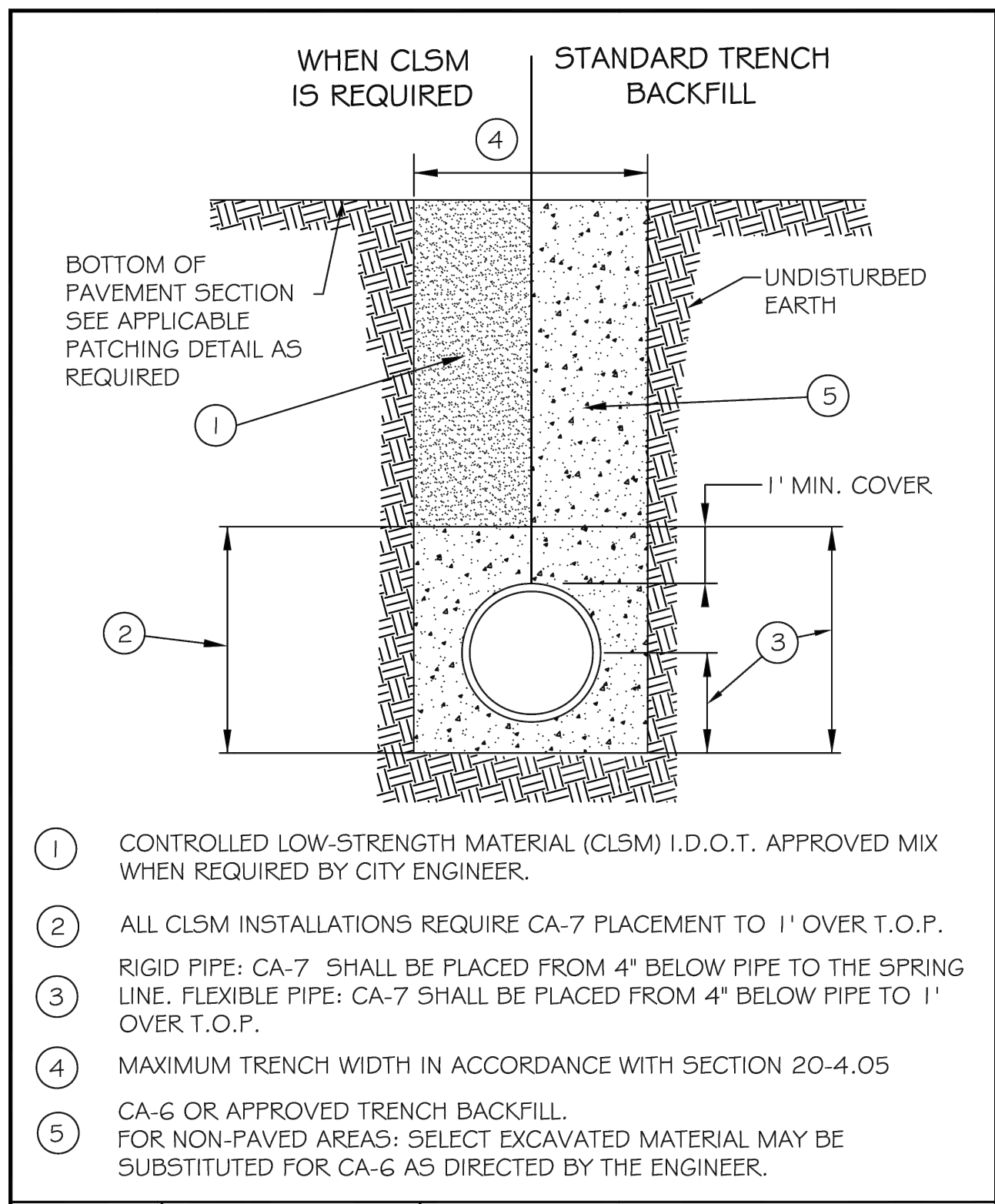
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SHEET TITLE

GEOMETRIC PLAN - SOUTH

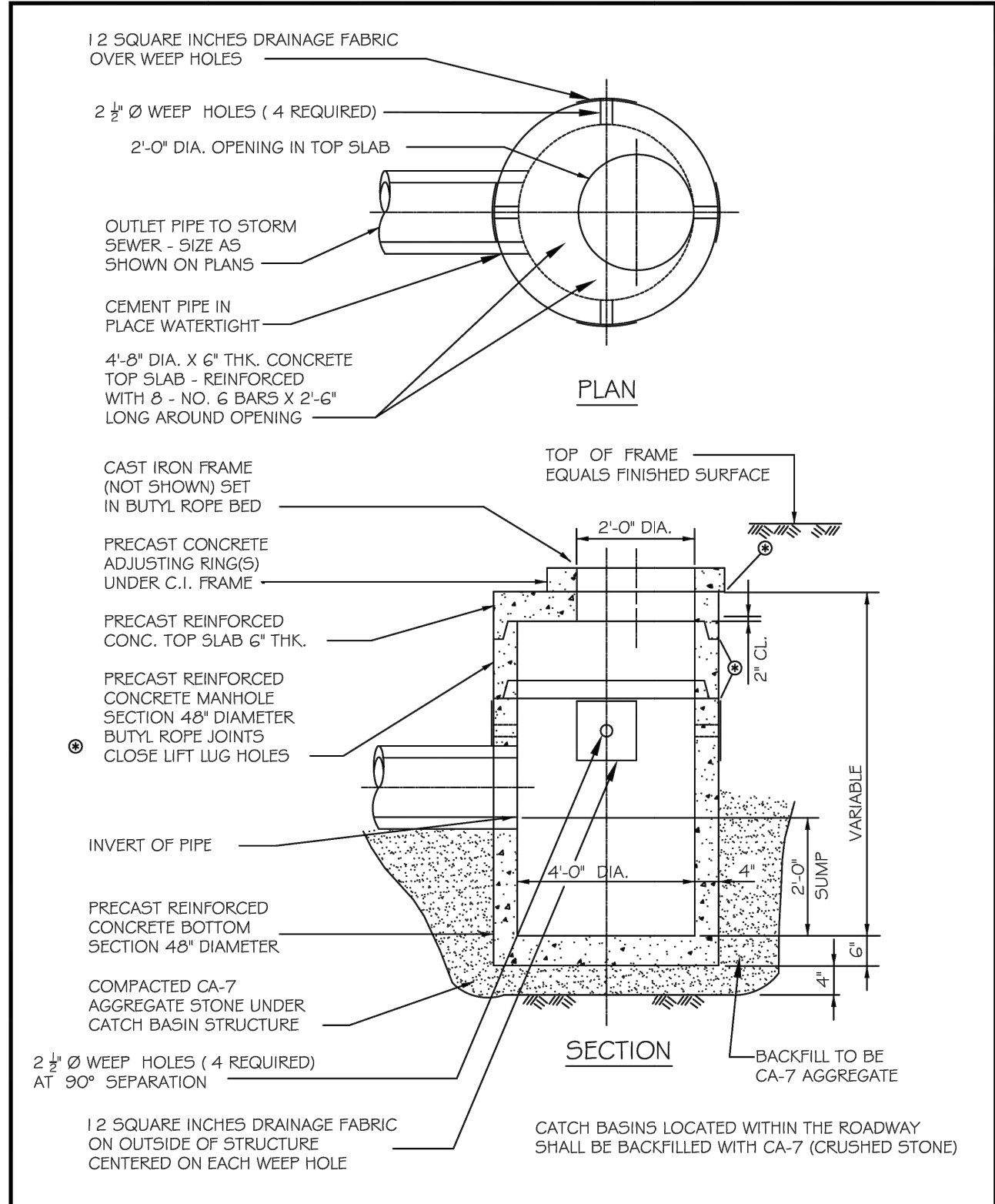
TOTAL SHEETS

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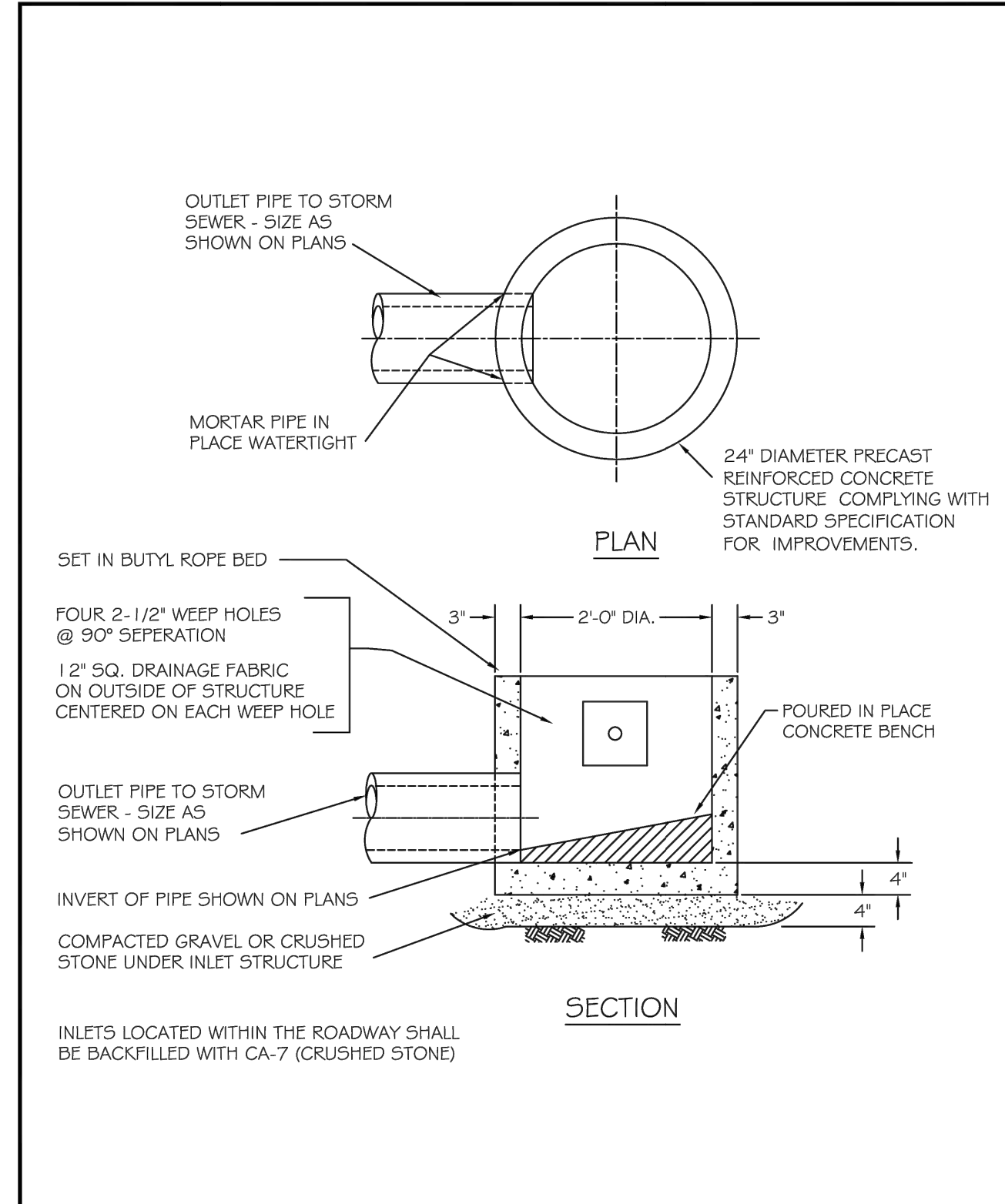
NO.	REVISIONS
1	CONTROLLED LOW-STRENGTH MATERIAL (CLSM) I.D.O.T. APPROVED MIX WHEN REQUIRED BY CITY ENGINEER.
2	ALL CLSM INSTALLATIONS REQUIRE CA-7 PLACEMENT TO 1' OVER T.O.P.
3	RIGID PIPE: CA-7 SHALL BE PLACED FROM 4" BELOW PIPE TO THE SPRING LINE. FLEXIBLE PIPE: CA-7 SHALL BE PLACED FROM 4" BELOW PIPE TO 1' OVER T.O.P.
4	MAXIMUM TRENCH WIDTH IN ACCORDANCE WITH SECTION 20-4.05
5	CA-6 OR APPROVED TRENCH BACKFILL. FOR NON-PAVED AREAS: SELECT EXCAVATED MATERIAL MAY BE SUBSTITUTED FOR CA-6 AS DIRECTED BY THE ENGINEER.

	DATE: 01/24/13	BY: dg	SCALE: NOT TO SCALE	CHECKED: LA	DRAWING NUMBER: EXHIBIT III-A-1
	DATE: 1/04	DRAWN: DG			



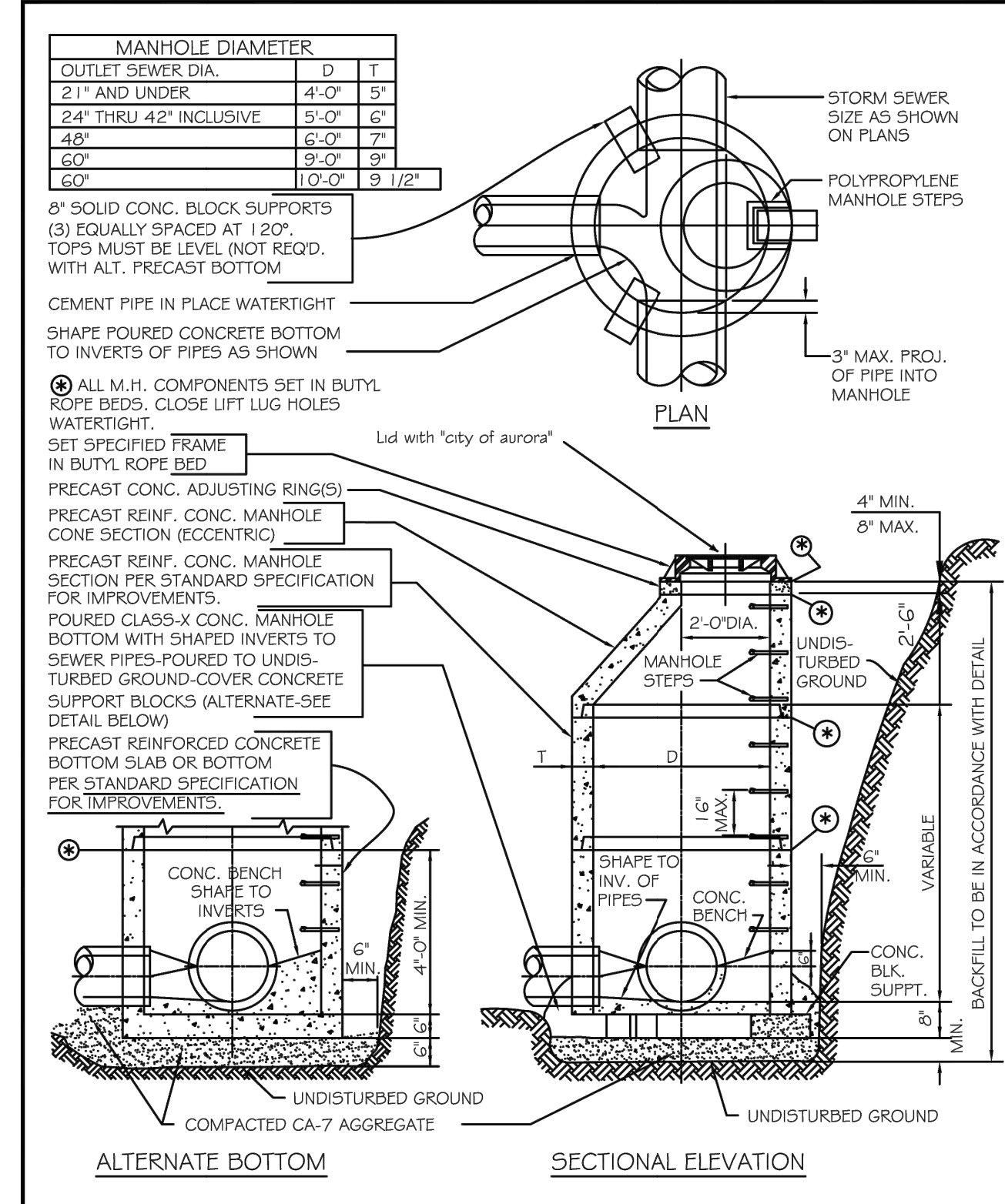
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2	ALL CLSM INSTALLATIONS REQUIRE CA-7 PLACEMENT TO 1' OVER T.O.P.
3	RIGID PIPE: CA-7 SHALL BE PLACED FROM 4" BELOW PIPE TO THE SPRING LINE. FLEXIBLE PIPE: CA-7 SHALL BE PLACED FROM 4" BELOW PIPE TO 1' OVER T.O.P.
4	MAXIMUM TRENCH WIDTH IN ACCORDANCE WITH SECTION 20-4.05
5	CA-6 OR APPROVED TRENCH BACKFILL. FOR NON-PAVED AREAS: SELECT EXCAVATED MATERIAL MAY BE SUBSTITUTED FOR CA-6 AS DIRECTED BY THE ENGINEER.

	DATE: 01/20/11	BY: DF/jhs	SCALE: NOT TO SCALE	CHECKED: DF	DRAWING NUMBER: EXHIBIT III-A-4
	DATE: 1/04	DRAWN: NM			



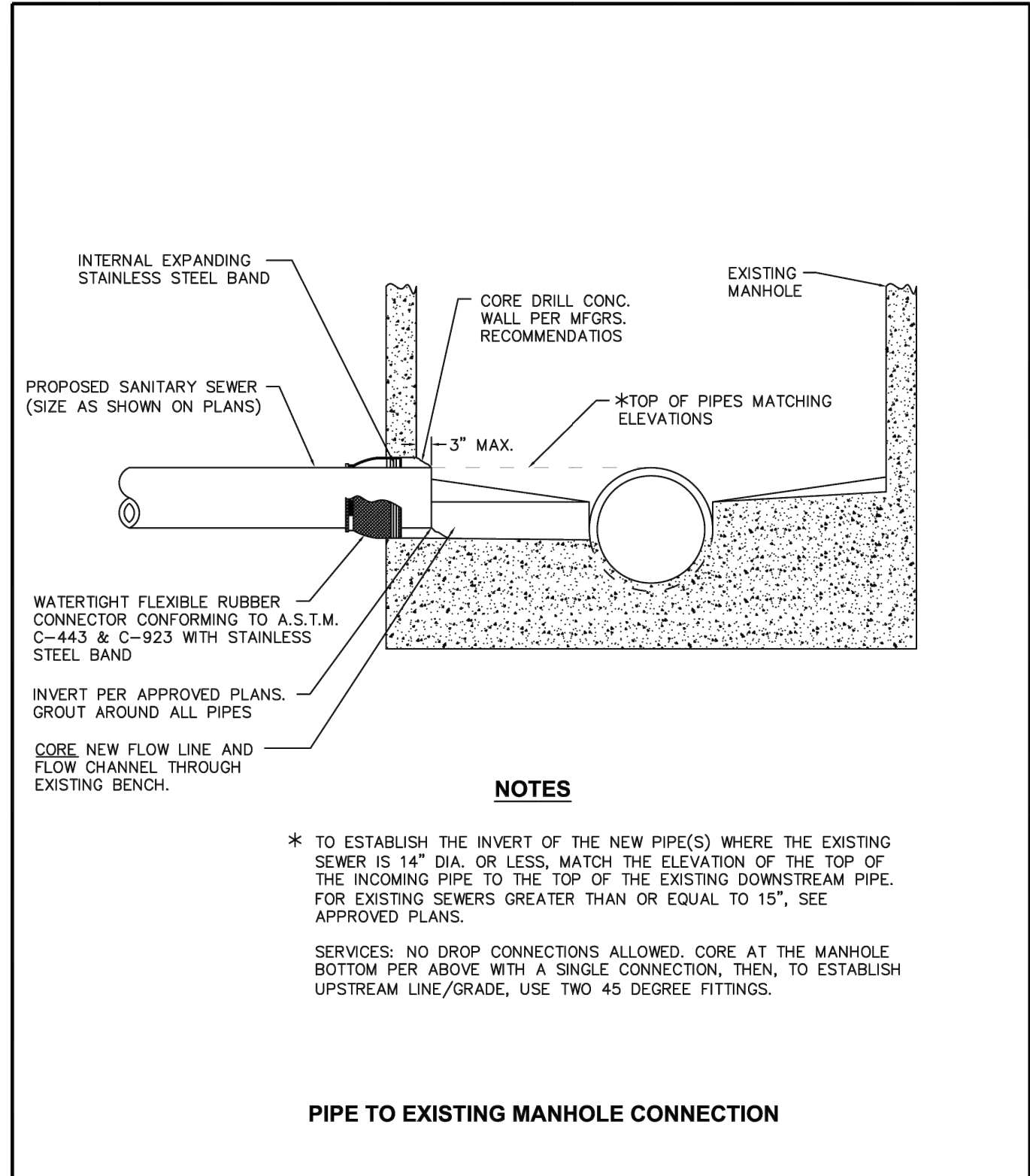
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2	ALL CLSM INSTALLATIONS REQUIRE CA-7 PLACEMENT TO 1' OVER T.O.P.
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4	MAXIMUM TRENCH WIDTH IN ACCORDANCE WITH SECTION 20-4.05
5	CA-6 OR APPROVED TRENCH BACKFILL. FOR NON-PAVED AREAS: SELECT EXCAVATED MATERIAL MAY BE SUBSTITUTED FOR CA-6 AS DIRECTED BY THE ENGINEER.

	DATE: 01/20/11	BY: jhs	SCALE: NOT TO SCALE	CHECKED: DF	DRAWING NUMBER: EXHIBIT III-A-5
	DATE: 1/04	DRAWN: NM			



NO.	REVISIONS
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2	ALL CLSM INSTALLATIONS REQUIRE CA-7 PLACEMENT TO 1' OVER T.O.P.
3	RIGID PIPE: CA-7 SHALL BE PLACED FROM 4" BELOW PIPE TO THE SPRING LINE. FLEXIBLE PIPE: CA-7 SHALL BE PLACED FROM 4" BELOW PIPE TO 1' OVER T.O.P.
4	MAXIMUM TRENCH WIDTH IN ACCORDANCE WITH SECTION 20-4.05
5	CA-6 OR APPROVED TRENCH BACKFILL. FOR NON-PAVED AREAS: SELECT EXCAVATED MATERIAL MAY BE SUBSTITUTED FOR CA-6 AS DIRECTED BY THE ENGINEER.

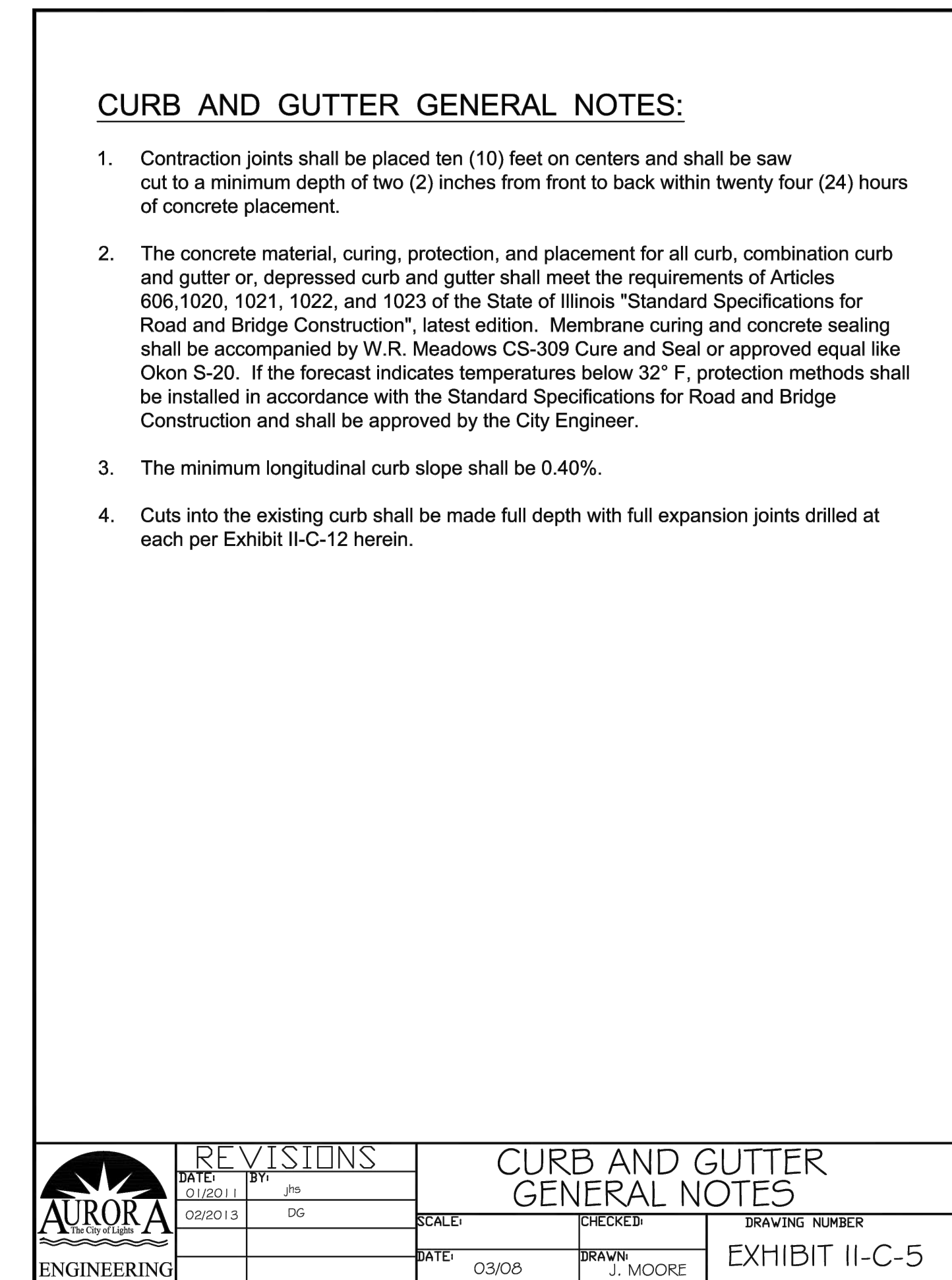
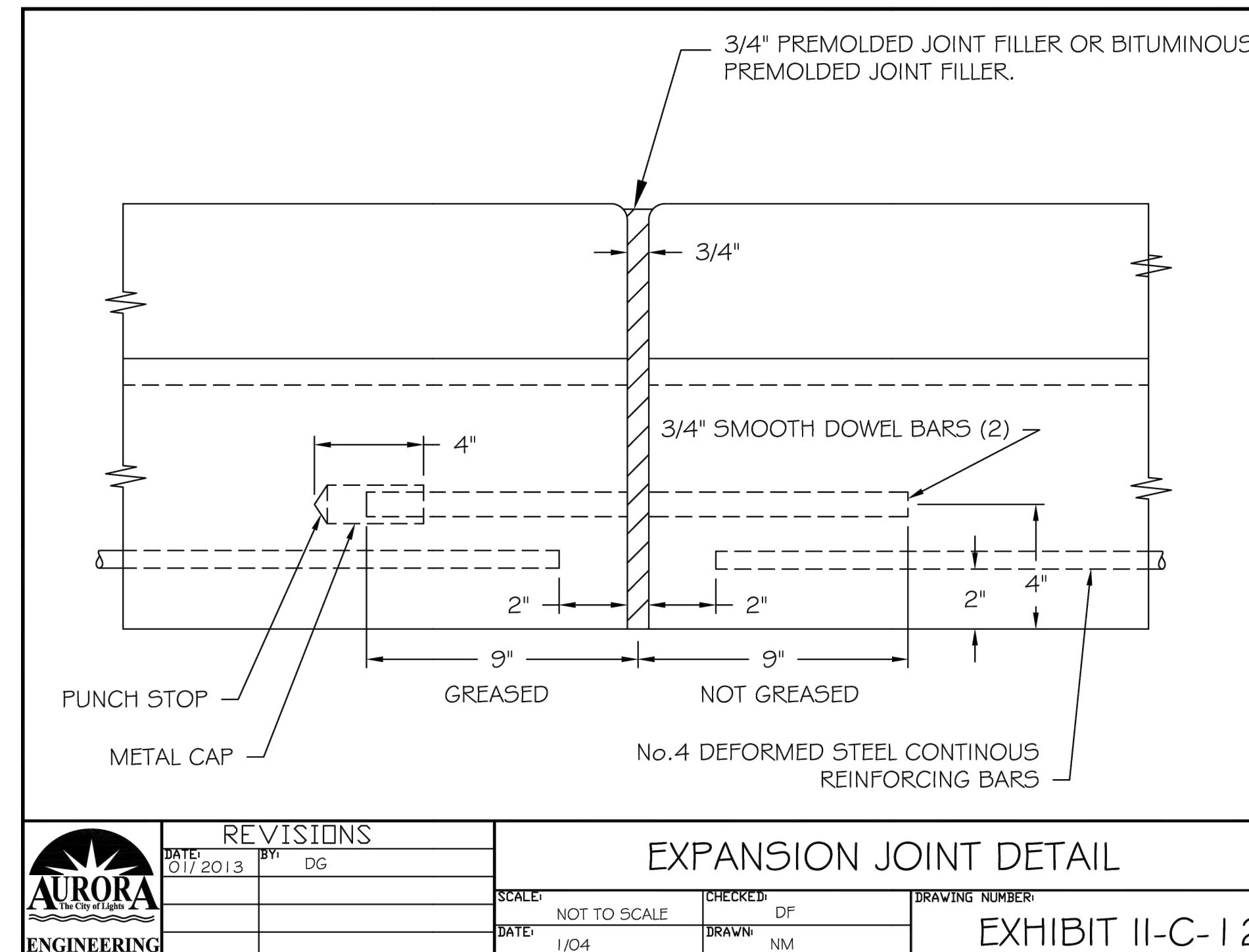
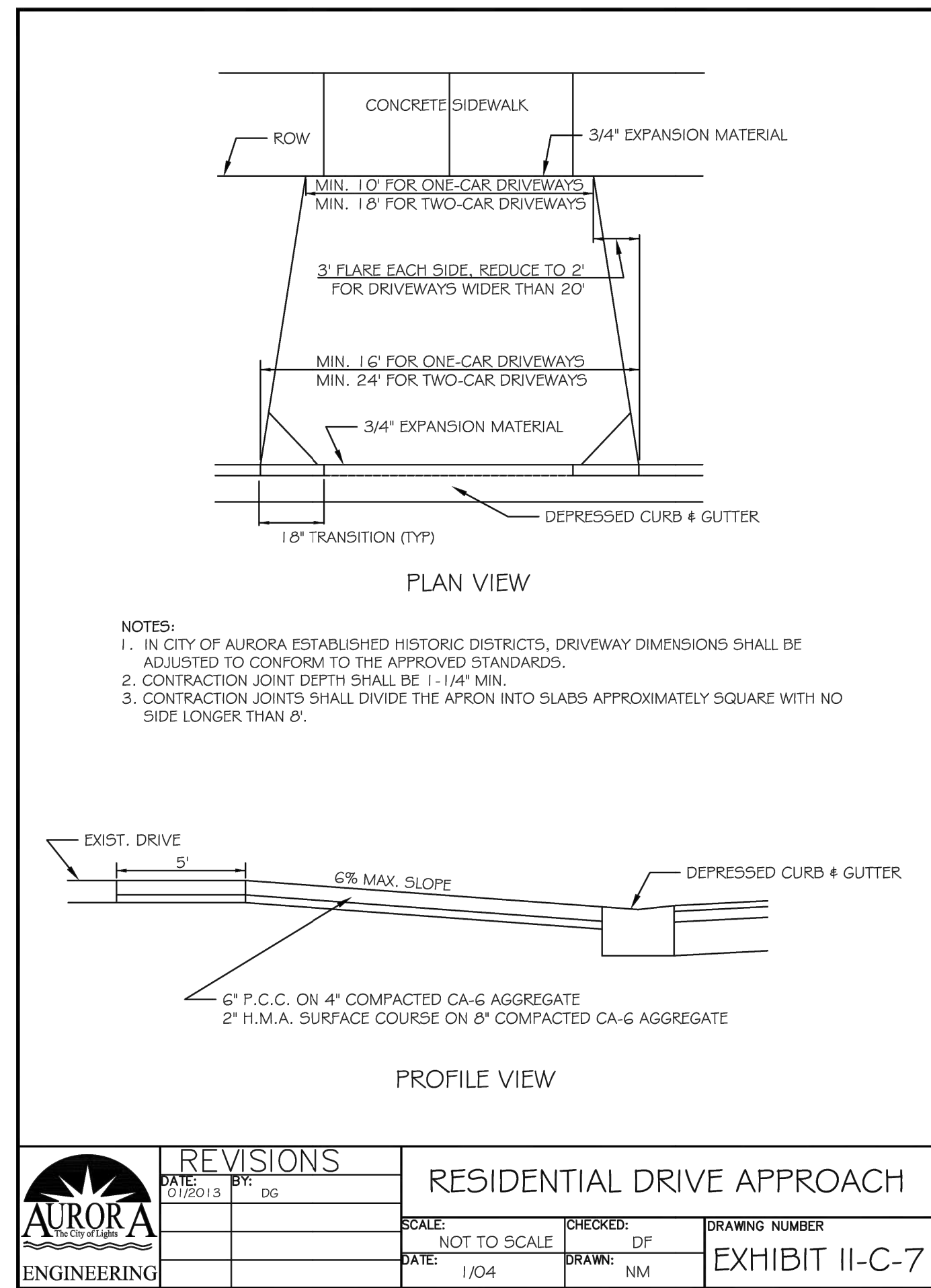
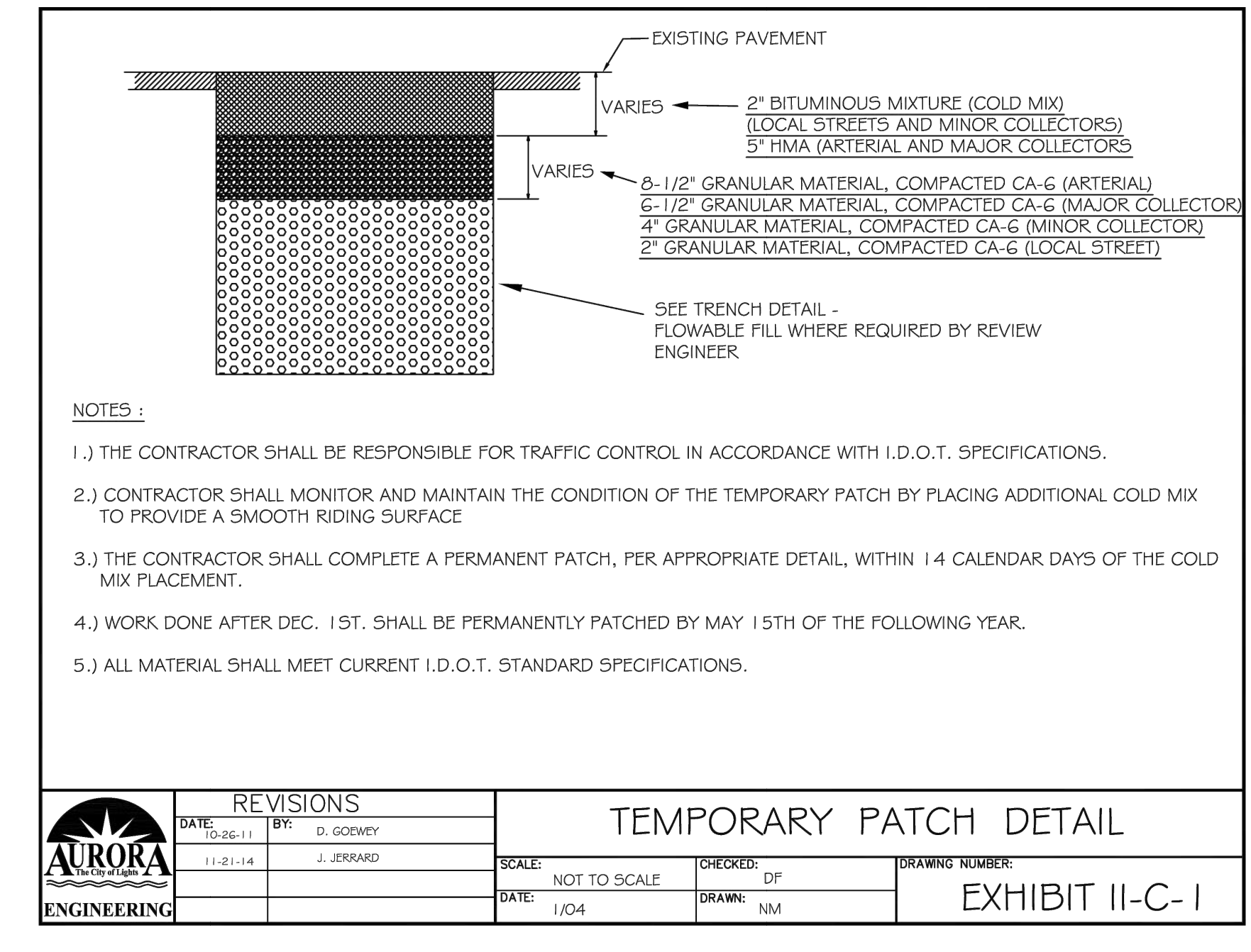
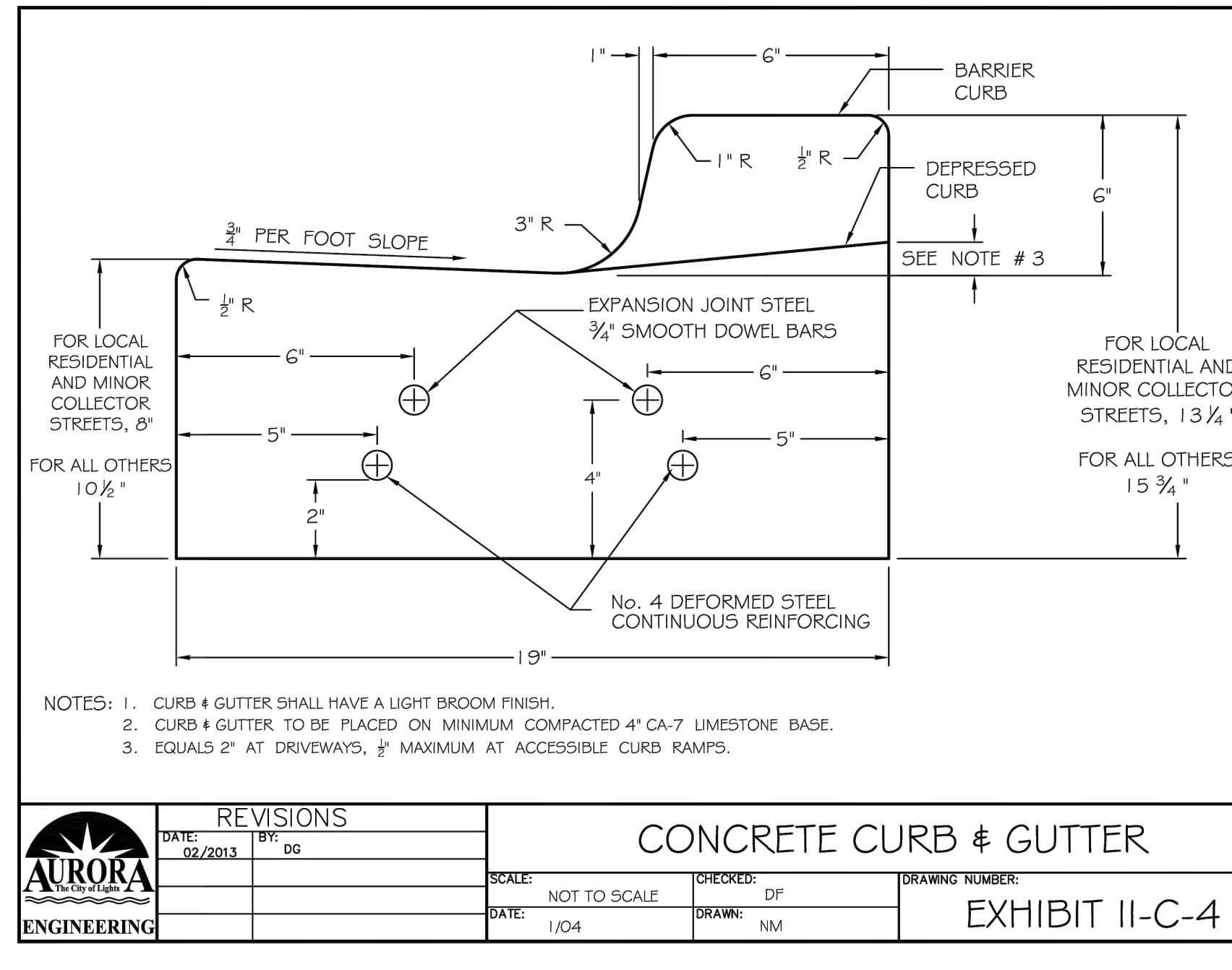
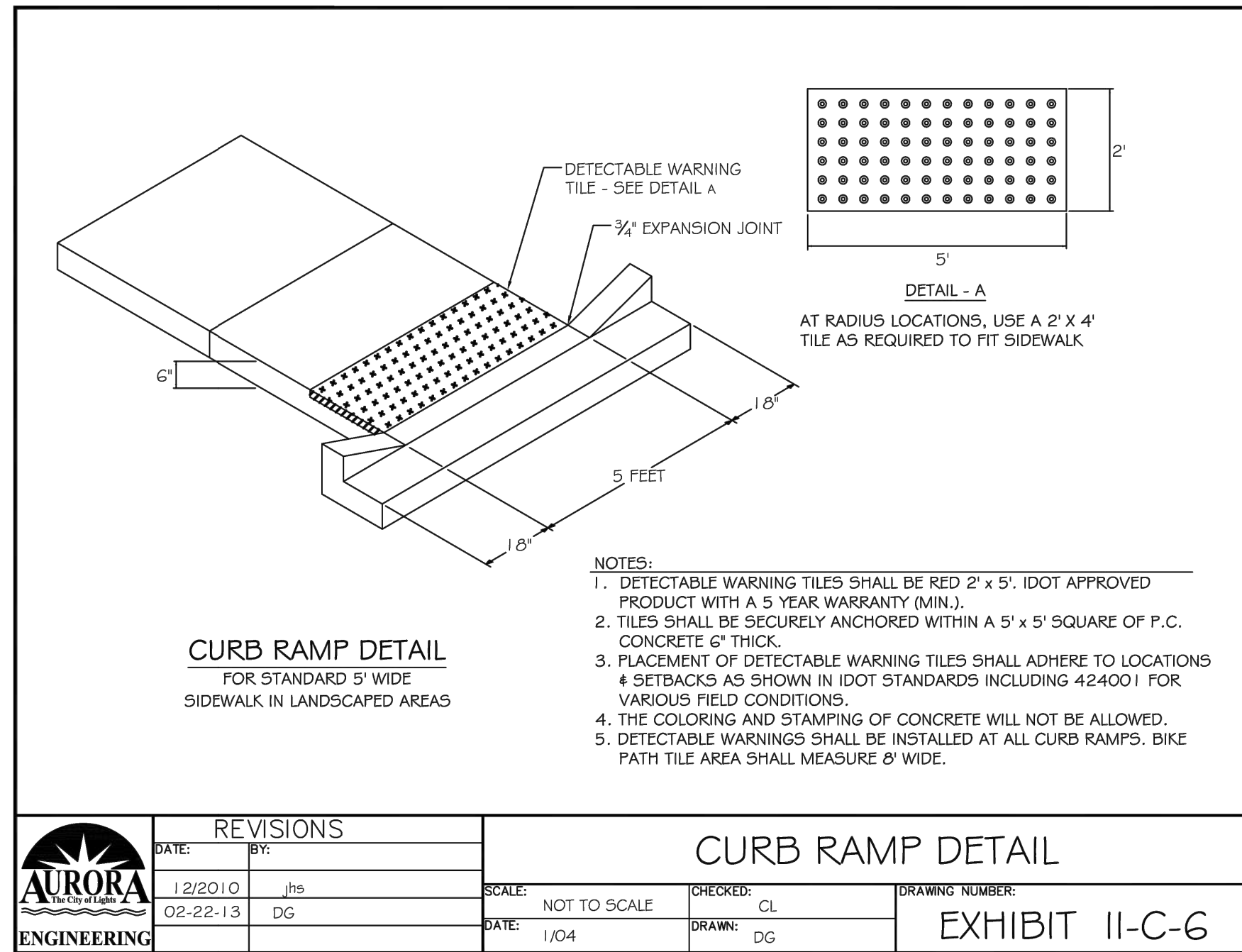
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	DATE: 1/04	DRAWN: NM			



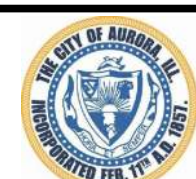
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	DATE: 1/04	DRAWN: NM			

	DATE: 01/20/11	BY: jhs	SCALE: NOT TO SCALE	CHECKED: DF	DRAWING NUMBER: EXHIBIT III-A-3
	DATE: 1/04	DRAWN: NM			

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 LAST SAVED BY: muthk



PLOT DATE: 4/29/2024 11:25 AM LAST SAVED BY: muthk FILEPATH: P:\ENGINEERING\CAPITAL IMPROVEMENT PROJECTS\2020 PROJECTS\PUBLIC WORKS COMBINED MAINTENANCE FACILITY\CIVIL DESIGN - COA\SURVEY\BASE DRAWINGS\DWG DETAILS.DWG



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

REVISIONS:

DESIGNED BY: KM CHECKED BY: KM SCALE: N.T.S.  
DRAWN BY: MH APPROVED BY: KM DATE: 4/2024

PROJECT

PUBLIC WORKS FACILITY - SITE WORK PHASE 2

SHEET TITLE

STANDARD DETAILS

SHEET NUMBER

15

TOTAL SHEETS

17

PLOT DATE: 4/29/2024 11:25 AM LAST SAVED BY: muthk FILEPATH: P:\ENGINEERING\CAPITAL IMPROVEMENT PROJECTS\2020 PROJECTS\PUBLIC WORKS COMBINED MAINTENANCE FACILITY\CIVIL DESIGN - COA\SURVEY\BASE DRAWINGS\DWG DETAILS.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

The Dandy Dewatering Bag™ is designed to control sediment discharge in dewatering applications where water is being pumped.

#### 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

FABRIC ANCHOR DETAIL

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			STANDARD DWG. NO. IL-620
Project	Date		11-20-01
Designed	Date		SHEET 1 OF 2
Checked	Date		DATE
Approved	Date		

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.

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.

#### 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-CONTRACTORS 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	
261 LBS./AC	24.93% ASP PERENNIAL RYEGRASS
	24.46% CADDISSHACK PERENNIAL RYEGRASS
	24.33% GOALKEEPER PERENNIAL RYEGRASS
	12.37% GERONIMO KENTUCKY BLUEGRASS
	12.29% KENTUCKY BLUEGRASS (VARIETY NOT STATED)
	1.34% INERT MATTER
	0.28% CROP
	0.00% WEED
MULCH:	MECHANICALLY CRIMPED STRAW OR HYDRO-MULCH

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

SEE DETAIL ABOVE

REFERENCE			STANDARD DWG. NO. IUM-561D
Project	Date		02-11-11
Designed	Date		SHEET 1 OF 1
Checked	Date		DATE
Approved	Date		

### SILT FENCE - SPLICING TWO FENCES

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

### TEMPORARY CONCRETE WASHOUT FACILITY - BARRIER WALL

PLAN VIEW

BARRIER WALL ANCHOR SECTION

SIGN DETAIL

NOTES:

- Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
- Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

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

### MAJOR COLLECTOR STREETS (TYPICAL DESIGN)

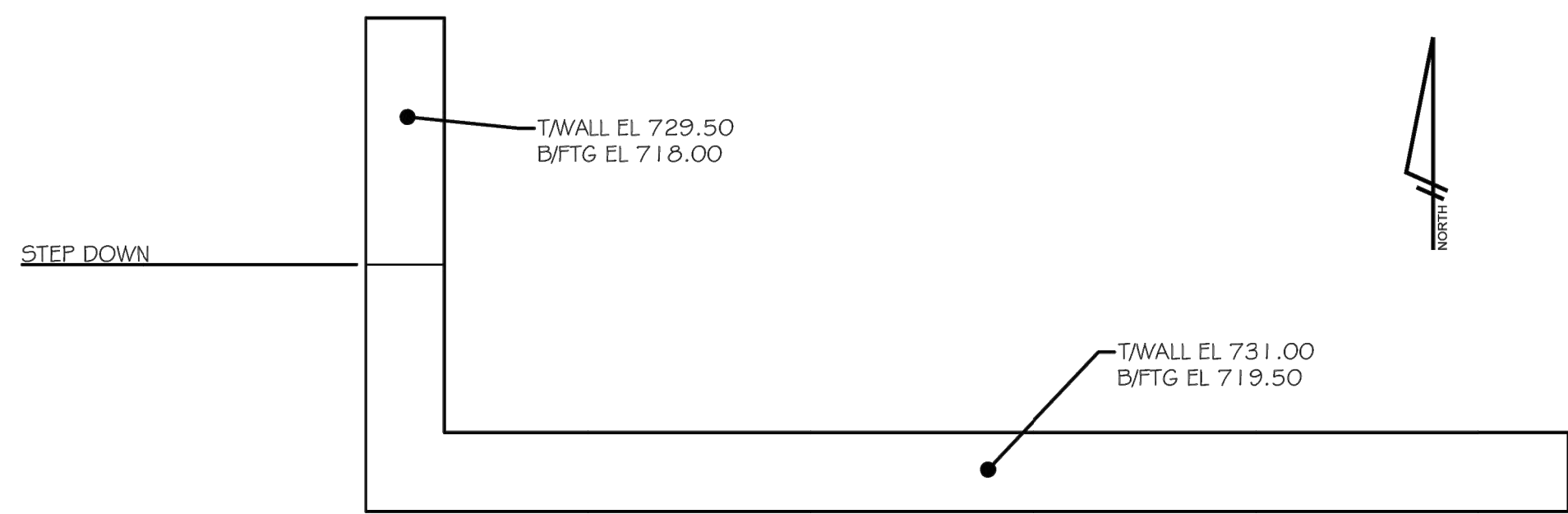
TOTAL 6'-12 1/2"

NOTES:

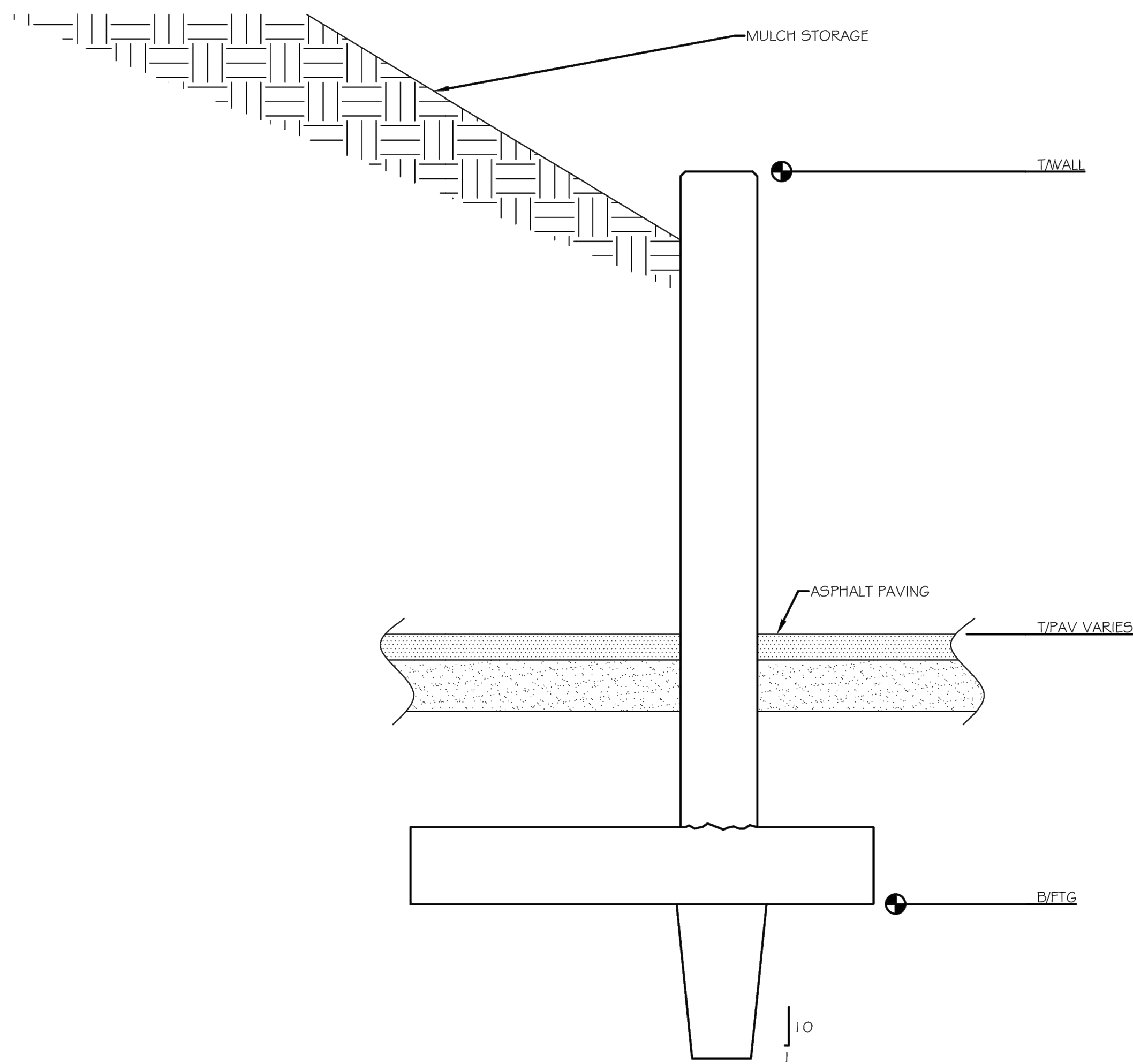
- SUBGRADE MUST BE SHAPED PARALLEL TO FINISHED COURSE TO OBTAIN A SOUND FREE-DRAINING SUBGRADE TO THE CURB LINE AND TO THE INLETS OR CATCH BASINS.
- SELECTED COMPACTED SUBGRADE WITH A MIN. I.B.R. OF 3.0
- SEE EXHIBIT FOR CURB DETAILS
- CLEAN COMPACTED CLAY FILL TO BE PLACED BEHIND B.O.C. PRIOR TO THE BINDER COURSE.
- SURFACE AND BINDER SHALL MEET THE LATEST EDITION OF IDOT'S STANDARD FOR ROAD AND BRIDGE CONSTRUCTION.

	REVISIONS	MAJOR COLLECTOR STREETS	
DATE: 04/20/18	BY: DGowey	SCALE: NOT TO SCALE	CHECKED: DF
DATE: 02/20/22	BY: CAmin	DATE: 1/04	DRAWN: NMSAZ
DRAWING NUMBER:		EXHIBIT II-B-3	



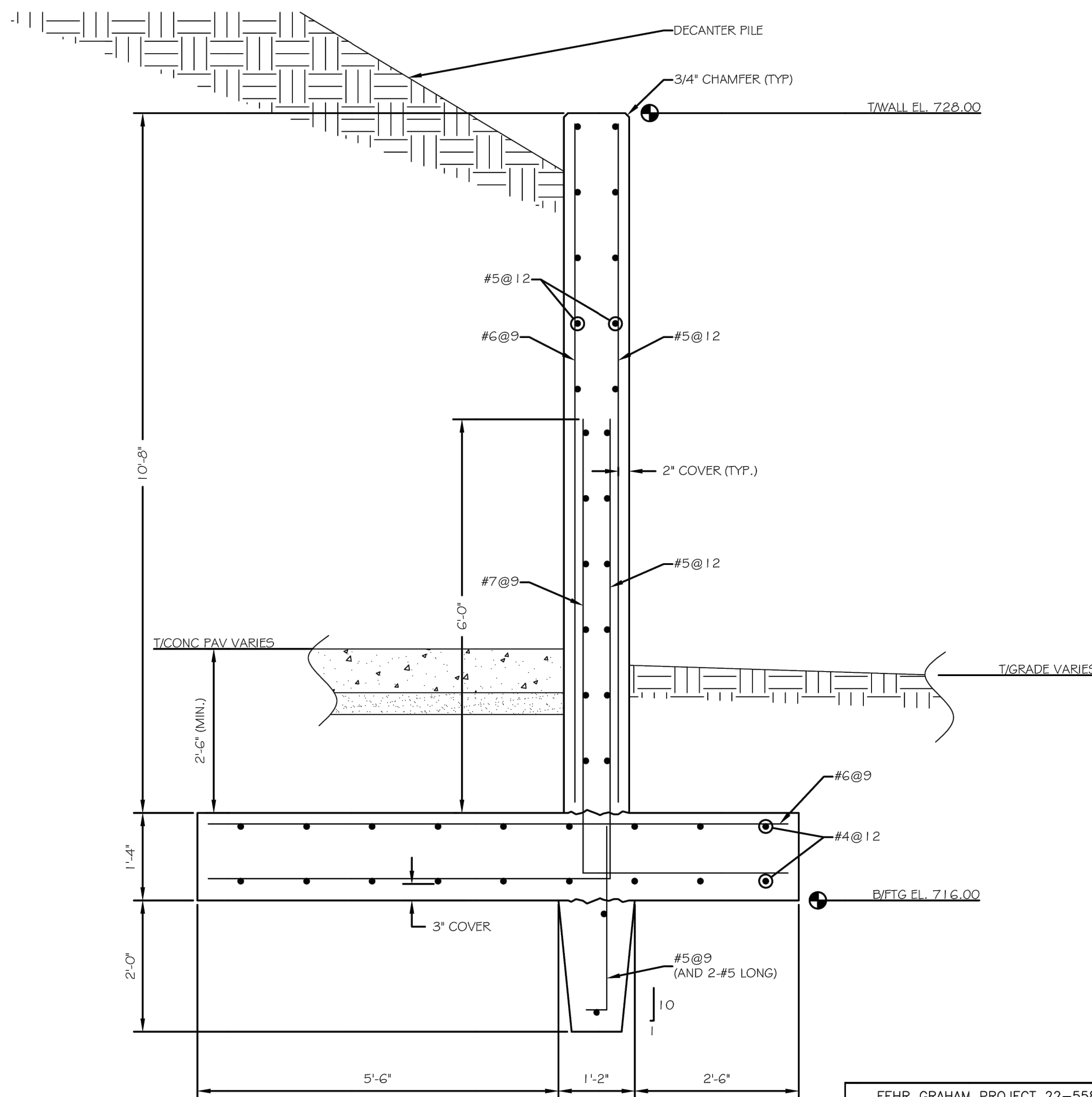


MULCH STORAGE WALL - PLAN  
SCALE: NTS

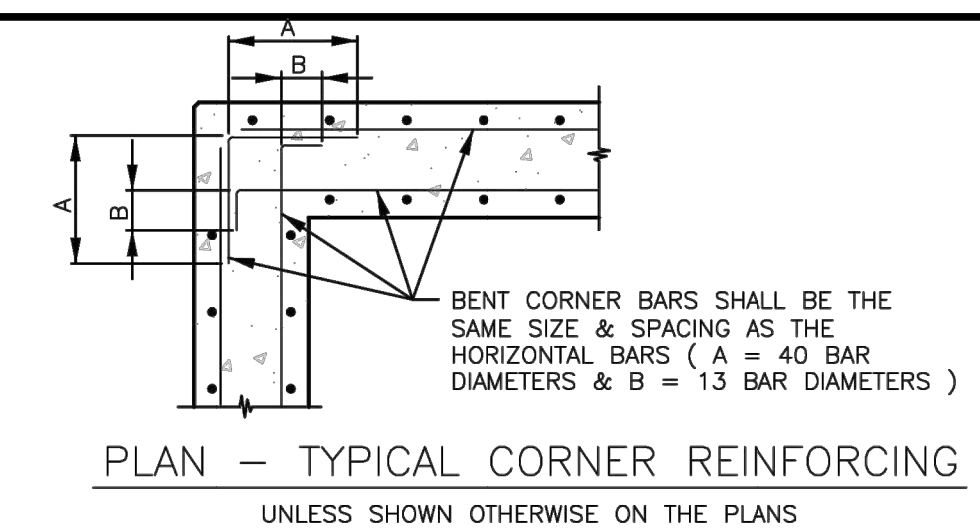


NOTE:  
FOR REINFORCING AND DIMENSIONS REFER TO DECANTER AREA WALL SECTION

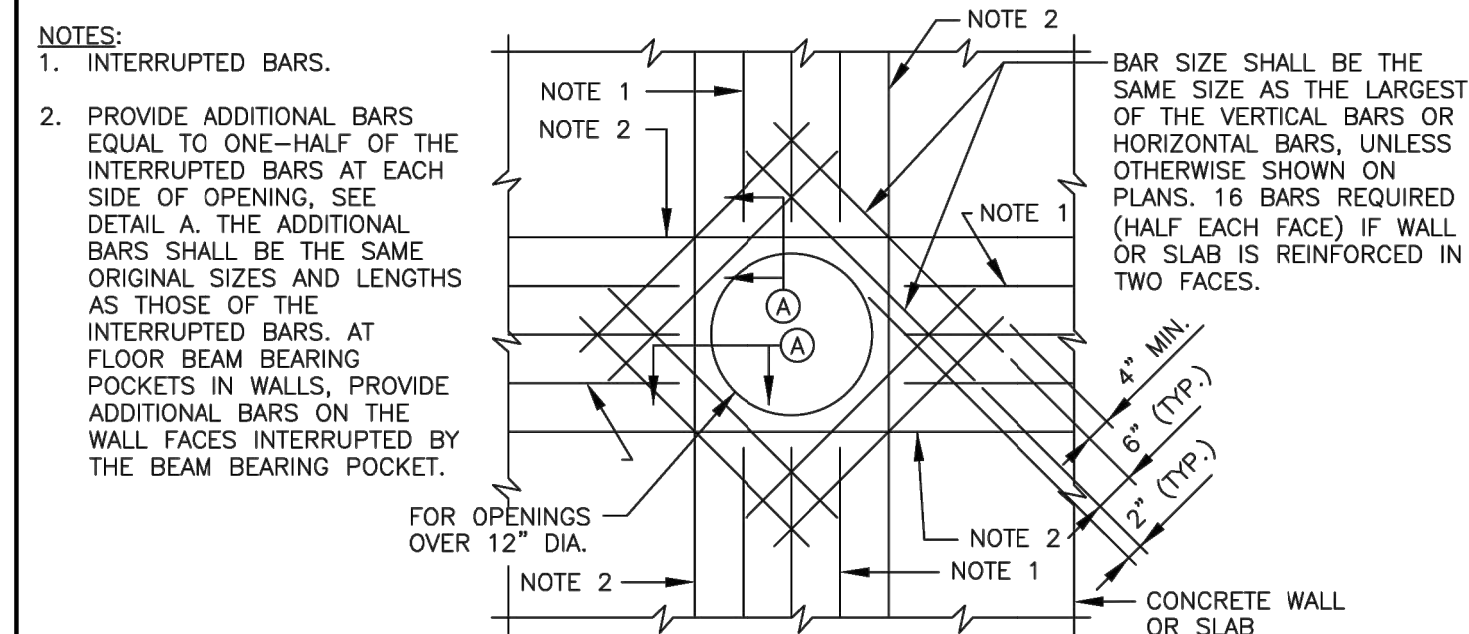
MULCH STORAGE WALL - SECTION  
PROVIDE EXPANSION JOINTS AT 60'-0" INTERVALS AND CONTROL JOINTS AT 30'-0" INTERVALS  
SCALE: 3/4" = 1'-0"



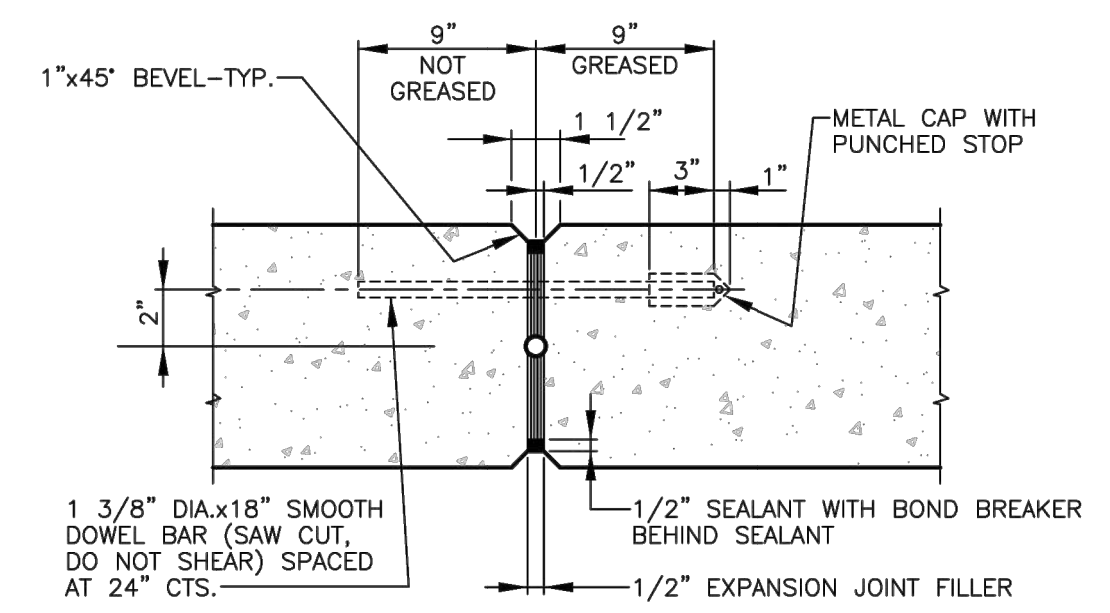
DECANTER AREA WALL - SECTION  
PROVIDE EXPANSION JOINTS AT 60'-0" INTERVALS AND CONTROL JOINTS AT 30'-0" INTERVALS  
SCALE: 3/4" = 1'-0"



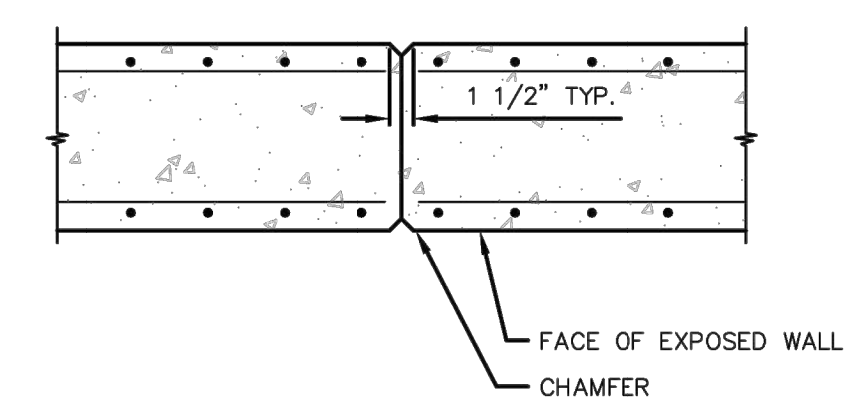
PLAN - TYPICAL CORNER REINFORCING  
UNLESS SHOWN OTHERWISE ON THE PLANS



ADDITIONAL REINFORCING BARS FOR CIRCULAR OPENINGS IN SLABS OR WALLS



EXPANSION JOINT DETAIL FOR WALLS



PLAN - TYPICAL CONTRACTION JOINT FOR WALLS

- STRUCTURAL DESIGN CRITERIA**
- STRUCTURAL DESIGN IS BASED ON THE APPLICABLE REQUIREMENTS OF THE INTERNATIONAL BUILDING CODE (IBC 2015)
- FOUNDATIONS & BACKFILL**
- FOUNDATION DESIGN IS BASED ON THE FOLLOWING GEOTECHNICAL ENGINEERING REPORT BY Rubino Engineering, Inc.: G2 I.037 DATED April 27, 2022.
    - FOOTINGS ARE PROPORTIONED FOR A MAXIMUM NET ALLOWABLE BEARING PRESSURE OF 3,000 PSF.
    - FOOTINGS WILL BE PLACED ON STRUCTURAL FILL WHICH IS PLACED DURING MASS GRADING. THE STRUCTURAL FILL SHALL BE PLACED AND COMPACTED PER THE RECOMMENDATIONS CONTAINED IN THE GEOTECHNICAL REPORT.
    - RETAINING WALLS ARE DESIGNED FOR THE FOLLOWING LATERAL EARTH PRESSURE:
      - MULCH STORAGE WALL: 50 PSF/FT (DRAINED, MULCH)
      - DECANTER AREA WALL: 70 PSF/FT (DRAINED, COHESIVE SOIL)
- CONCRETE & REINFORCEMENT**
- CONCRETE WORK SHALL BE PER AMERICAN CONCRETE INSTITUTE - ACI 301 SPECIFICATION FOR STRUCTURAL CONCRETE.
  - MATERIALS SHALL BE AS FOLLOWS (UNLESS NOTED)
    - CONCRETE:  $f'_c = 4,000$  PSI
    - REINFORCEMENT: ASTM A615 GR. 60
  - CONCRETE SURFACES EXPOSED TO VIEW SHALL BE FINISHED TO AS-CAST FINISH SF-2.0 ACI 301.
  - THE FOLLOWING SUBMITTALS ARE REQUIRED
    - CONCRETE MIX DESIGN
    - REBAR PLACEMENT DRAWINGS
    - GENERAL CONCRETE WORK: JOINT FILLERS, CURING COMPOUNDS, FORM RELEASE AGENTS, SEALANTS, ETC.
  - BAR SPLICES: SPLICE REINFORCING WHERE INDICATED ON THE DRAWINGS. ALL SPLICES SHALL BE CLASS 'B' AS DEFINED IN ACI 318.
  - PROVIDE FOR ADDITIONAL REBAR AT OPENINGS IN CONCRETE AT LOCATIONS AS SHOWN ON CIVIL DRAWINGS.
  - ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4" UNLESS OTHERWISE NOTED.
  - JOINT AT TOP OF KEY AND AT BOTTOM OF STEM SHALL BE INTENTIONALLY ROUGHENED TO 1/4" AMPLITUDE.

FEHR GRAHAM PROJECT 22-558

Daniel Caceres  
EXPIRES 11/30/2022  
5/20/2022

PLOT DATE: 4/29/2024 11:25 AM LAST SAVED BY: mhmk FILE PATH: P:\ENGINEERING\CAPITAL IMPROVEMENT PROJECTS\2020 PROJECTS\PUBLIC WORKS COMBINED MAINTENANCE FACILITY\CIVIL DESIGN - CONSTRUCTION\BASE DRAWINGS\DW DETAILS.DWG



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

REVISIONS:

DESIGNED BY:	KM	CHECKED BY:	KM	SCALE:	N/A
DRAWN BY:	MH	APPROVED BY:	KM	DATE:	4/2024

ILLINOIS PROFESSIONAL DESIGN FIRM: 184-003525

PROJECT  
SHEET TITLE

PUBLIC WORKS FACILITY - SITE WORK PHASE 2  
STANDARD DETAILS

SHEET NUMBER  
17  
TOTAL SHEETS  
17