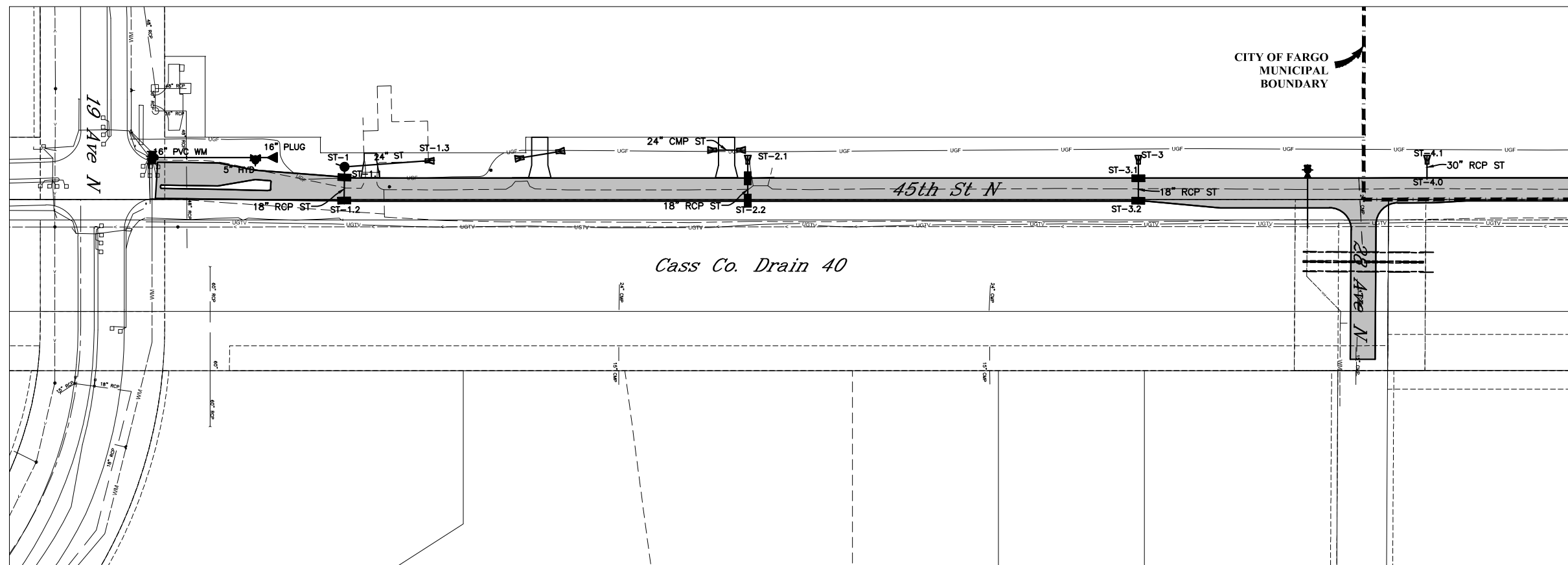
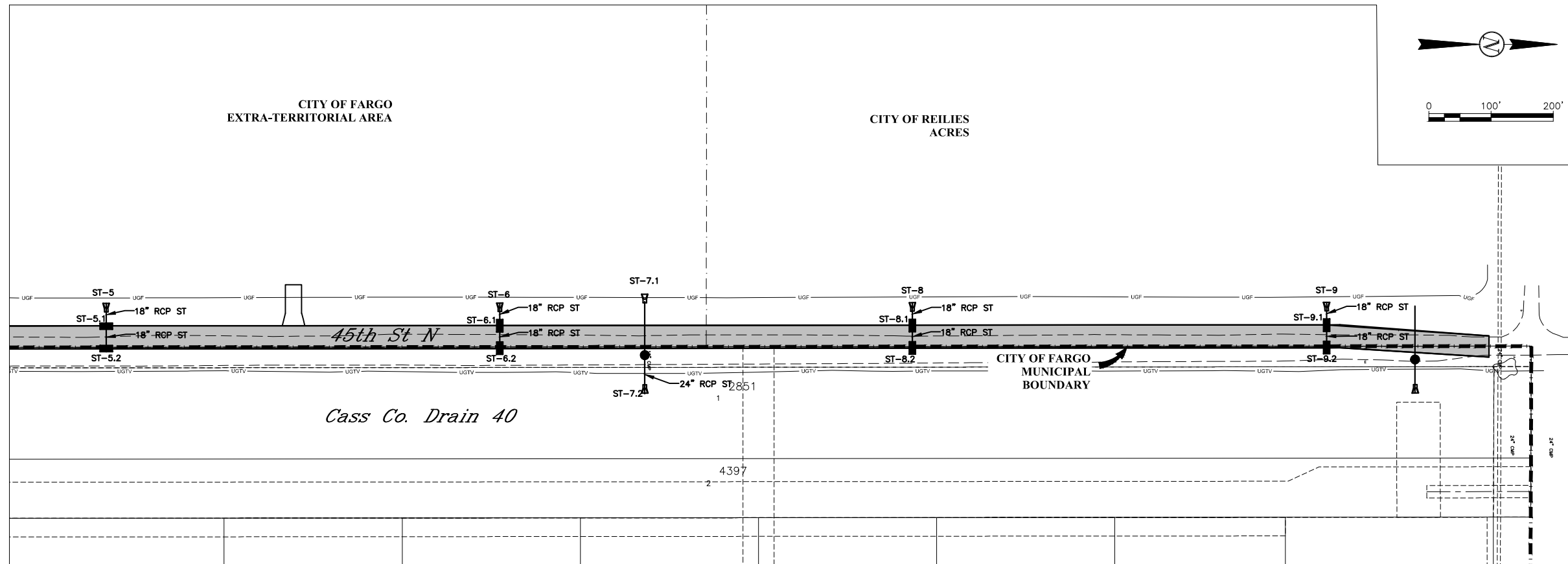




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Sheet Index	
Sheet No.	Sheet Title
001	Cover Sheet
1	Cover
002	Table of Contents
1	Sheet Layout & Index
004	Overall Layout
1	Overall Utility/Paving Layout
020	General Details
1	General Details
030	Typical Sections
1	24th Ave S Paving
040	Removals
1	Removals
50	Pipe & Structure Schedules
1	Pipe & Structure Schedules
55	Underground Utilities
1	Underground Utilities
60	Paving
1	Paving
75	Erosion & Sediment Control
1	ESC Plan
90	Jointing & Reinforcing
1	Jointing Plan
100	Work Zone Traffic Control
1	Traffic Control
110	Signing
1	Signing
120	Pavement Marking
1	Striping
140	Street Lighting
1	Street Lighting Layout
2	Street Lighting Details
3	Street Lighting Notes
150	Traffic Signals
1	Traffic Signals
210	Special Instructions to Bidders
1	Special Instructions to Bidders
220	Assessment Plat & Quantities
1	Assessment and Materials

ALL ELEVATIONS ARE BASED ON NAVD 88 DATUM (PRE-GEOD18). (UNLESS NOTED OTHERWISE)

ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①

SEAL

**Layout & Index**

New Paving and Utility Construction

Improvement District **BN-23-E1**

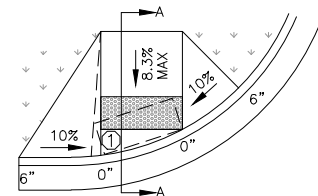
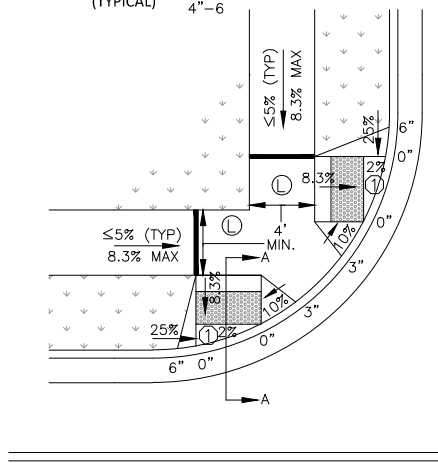
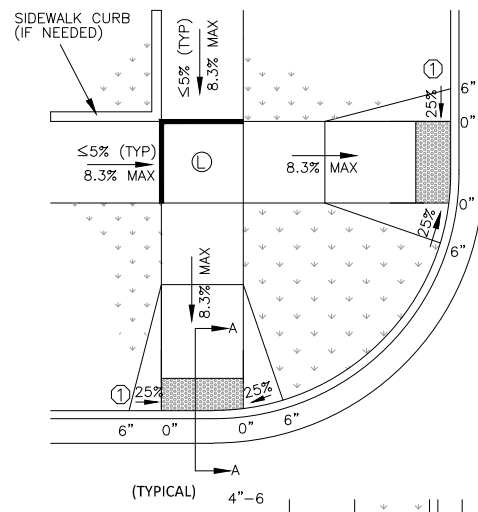
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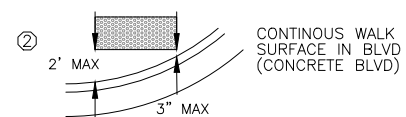
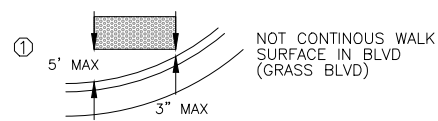
TYPE A : GRASS BOULEVARD  
 TYPE B : SIDEWALK ADJACENT TO STREET CURB  
 TYPE C : CONTINUOUS CONCRETE IN BOULEVARD  
 (TYPICALLY DOWNTOWN AREA)

# SIDEWALK RAMPS

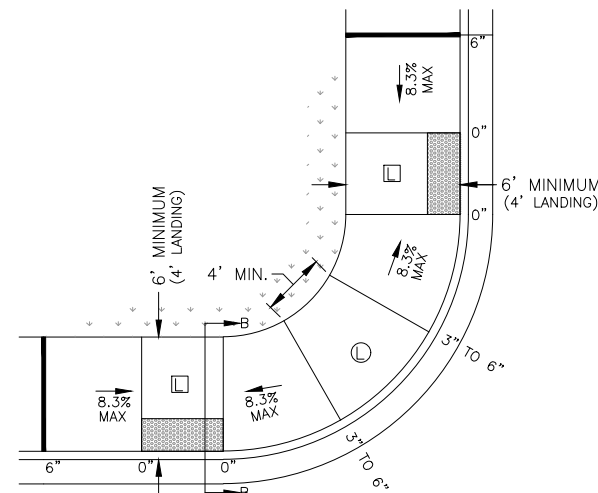
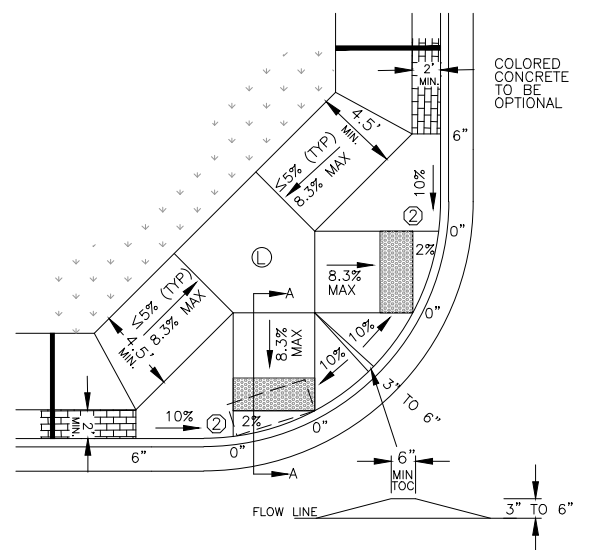
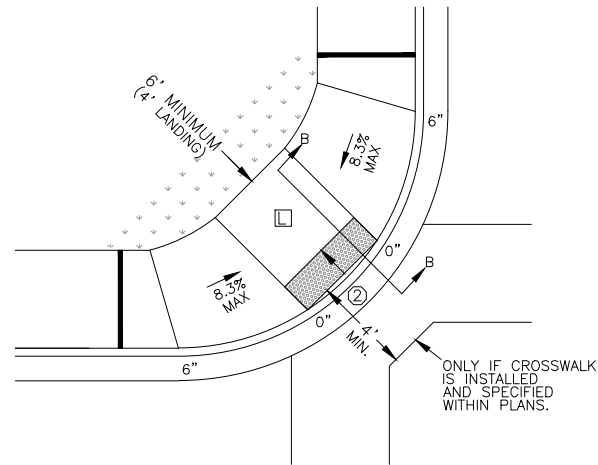
TYPE A



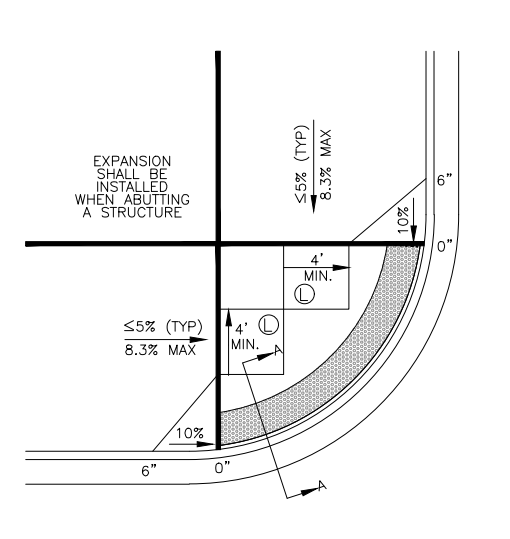
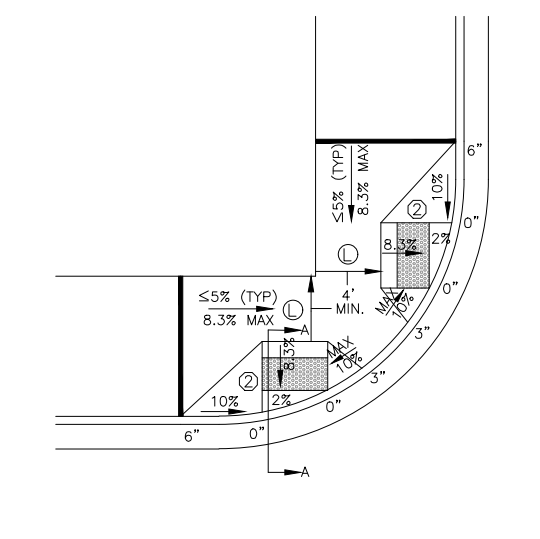
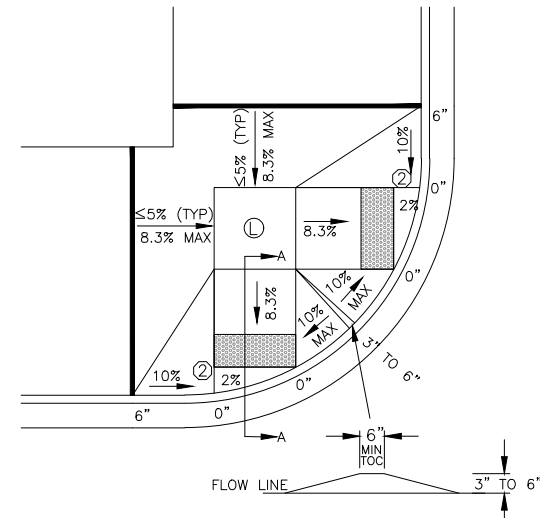
ALTERNATIVE DWP



TYPE B



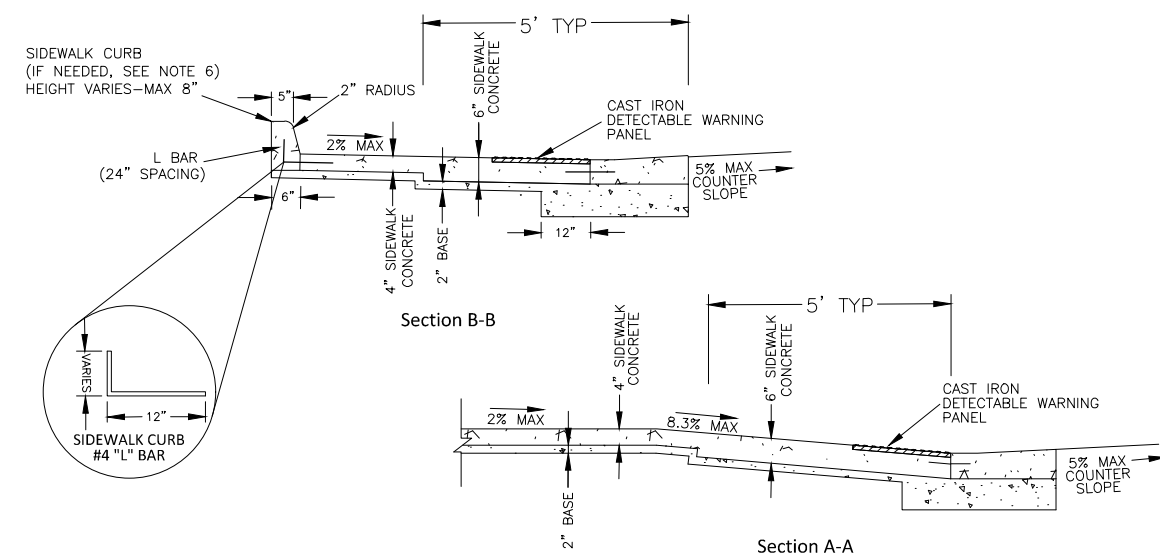
TYPE C



LEGEND:

	DETECTABLE WARNING PANEL UNPAINTED CAST IRON
	GRASS
	COLORED BRICK CONCRETE (MIN 2')
	UPPER LANDING 2% MAX
	LOWER LANDING 2% MAX
	0", 3", 4" OR 6" CURB HEIGHT
	1/2" EXPANSION (ALL EXPANSION SHALL BE SEALED WITH HOT POUR)
	20:1=5% 12:1=8.3% 10:1=10% 4:1=25%

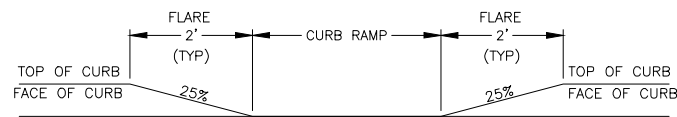
- NOTES:
- RAMP WIDTH IS DEFINED AS THE USEABLE PORTION OF THE RAMP, EXCLUDING FLARES IF USED.  
CURB RAMP WIDTH SHOULD MATCH THE EXISTING SIDEWALK WIDTH. 4' WIDTH MINIMUM.  
RAMP WIDTH FOR SHARED-USE PATHS SHOULD MATCH THE EXISTING SHARED USE PATH WIDTH.
  - RAMP LENGTH SHALL BE MAXIMUM OF 15'.  
ANY PORTIONS OF SIDEWALK BETWEEN THE DETECTABLE WARNING PANELS AND THE CURB SHALL HAVE A MAX 2% LONGITUDINAL GRADE.
  - LANDINGS SHALL BE A MINIMUM OF 4' X 4' AND SHALL HAVE A MAX 2% SLOPE IN ANY DIRECTION. LANDINGS ARE DESIRABLY 5' X 5' OR LARGER.
  - DETECTABLE WARNING PANELS SHALL MATCH THE RAMP WIDTH. RADIAL PANELS MAY ALSO BE USED. THE DETECTABLE WARNING PANEL MAY BE LOCATED WITHIN THE LOWER LANDING.
  - THE PEDESTRIAN ACCESS ROUTE SHALL BE CONTINUOUS 4' MIN. WIDTH. MAX 2% CROSS SLOPE APPLIES TO ALL CONCRETE, EXCLUDING FLARES.
  - LANDSCAPING IS PREFERRED TO MODIFY EXISTING GROUND SLOPE CHANGES AS NEEDED. IF NOT POSSIBLE, SUCH AS ADJACENT BUILDINGS, A VERTICAL CURB MAY BE USED AS SHOWN IN THE DETAIL BELOW. THE CURB WILL BE PAID FOR AT THE UNIT PRICE BID FOR THE ITEM "CURB - TYPE SW" PER LINEAL FOOT.
  - THE MAJORITY OF LINES SHOWN ON DETAILS INDICATE POINT OF DIFFERING GRADE CHANGES. ACTUAL JOINT DIMENSIONS MAY VARY IN FIELD.
  - LONGITUDINAL SLOPE ON SIDEWALK SHALL NOT EXCEED 5%. GENERALLY SIDEWALK GRADE IS ESTABLISHED BY THE ROADWAY GRADE. SIDEWALK SHALL NOT EXCEED 2% CROSS SLOPE.
  - CONCRETE LANDINGS SHALL BE PLACED SEPARATELY AND INSTALLED PRIOR TO ADJACENT ADA RAMPS AND/OR SIDEWALKS. CONCRETE LANDINGS SHALL HAVE A MINIMUM OF 24 HOURS OF CURE TIME PRIOR TO ADJACENT CONCRETE PLACEMENT.



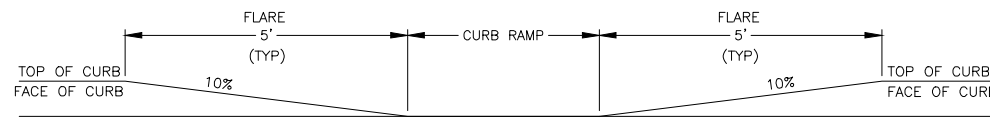
SIDEWALK RAMP CROSS-SECTIONS

ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①
SEAL		
<b>SW &amp; ADA Details</b>		
New Paving and Utility Construction		
Improvement District <b>BN-23-E1</b>		
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	<b>020</b>	<b>1</b>

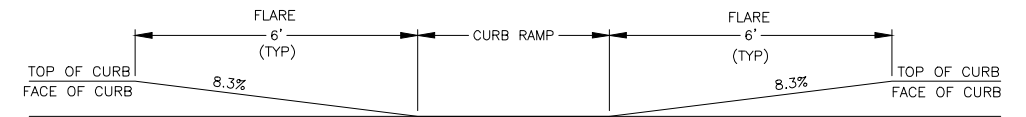
# SIDEWALK/BIKETRAIL DETAILS



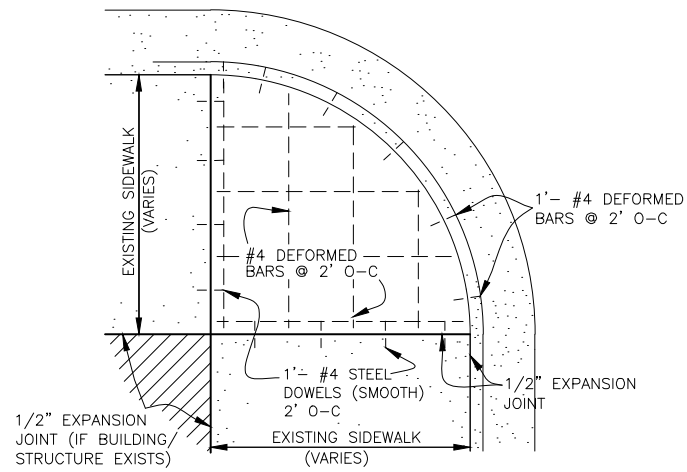
25% FLARES



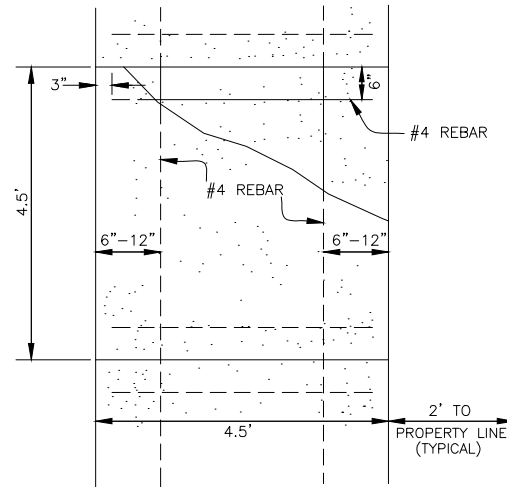
10% FLARES



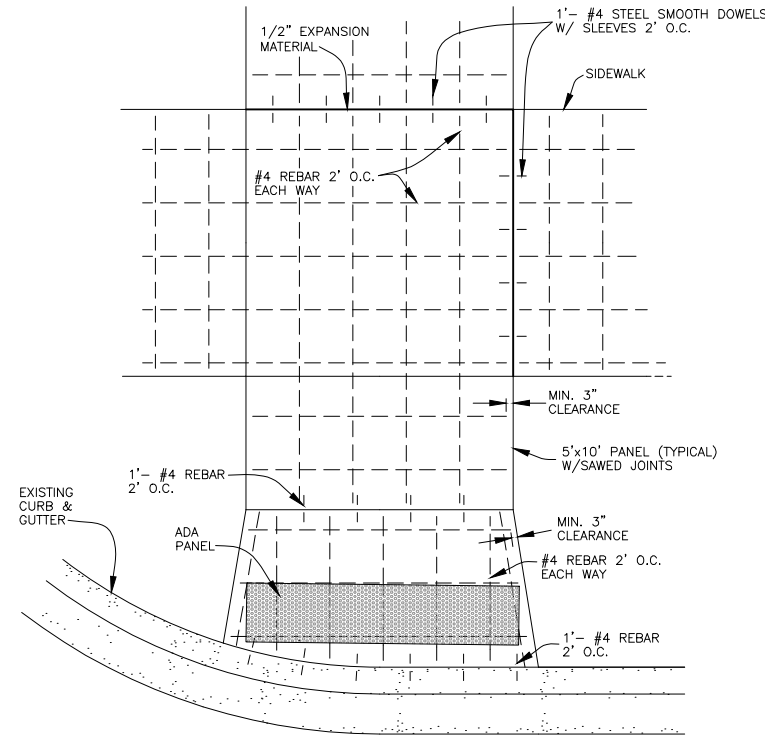
8.3% FLARES



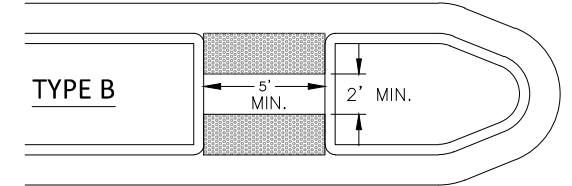
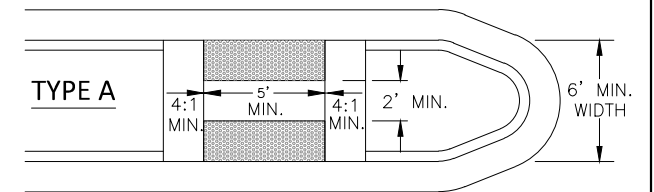
SIDEWALK REINFORCEMENT



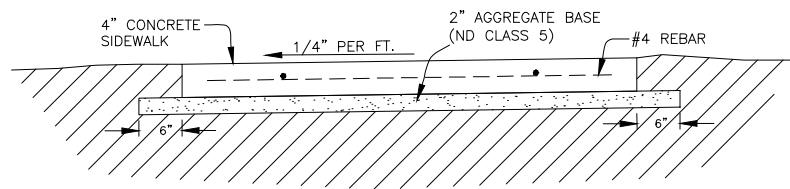
4.5' REINFORCEMENT



10' REINFORCEMENT



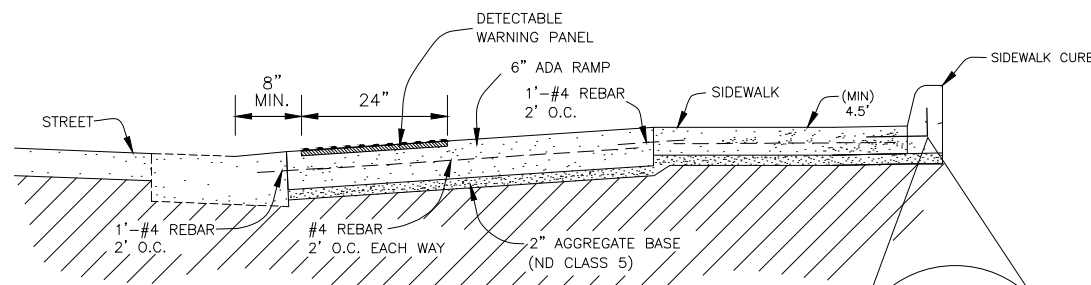
MEDIAN REFUGE ISLANDS (CUT-THROUGH)



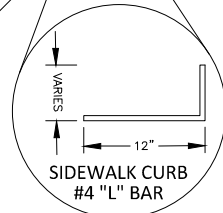
SIDEWALK CROSS-SECTION

SIDEWALK WIDTH	PANELS (L'xW')
6'	5'x6'
8'	4.5'x4'
10'	5'x5'

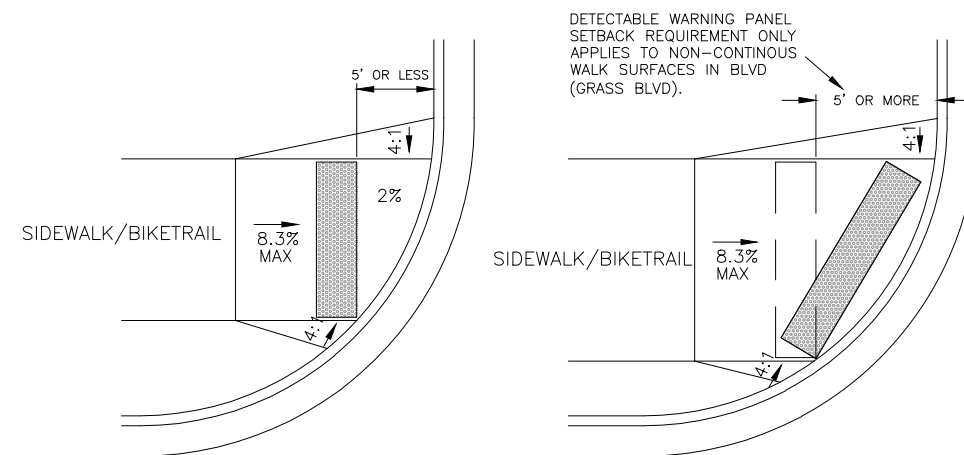
JOINT DIMENSION



SIDEWALK REINFORCEMENT



SIDEWALK CURB #4 "L" BAR



CONCRETE APRON FOR SIDEWALK/BIKETRAIL

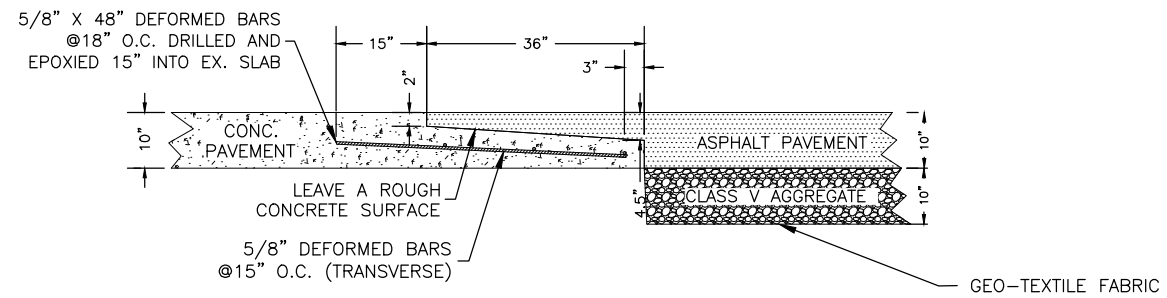
ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①

SEAL	
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<b>SW &amp; ADA Details</b>	
New Paving and Utility Construction	
Improvement District <b>BN-23-E1</b>	
DESIGN BY: JTS	CHECKED BY: CB1
DRAWN BY: MJB	ORIG DATE: PlanDate
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	SHEET NO. <b>2</b>

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- NOTES:
- DO NOT APPLY CURING COMPOUND TO CONCRETE SURFACES WHERE ASPHALT PAVEMENT WILL LATER BE INSTALLED.
  - ALL COSTS ASSOCIATED WITH THE CONCRETE TO ASPHALT PAVEMENT TRANSITION SHALL BE INCLUDED IN THE CONCRETE PAVEMENT BID ITEMS.

**CONCRETE TRANSITION DETAIL**  
45th St N @ STA xx+xx N.T.S.

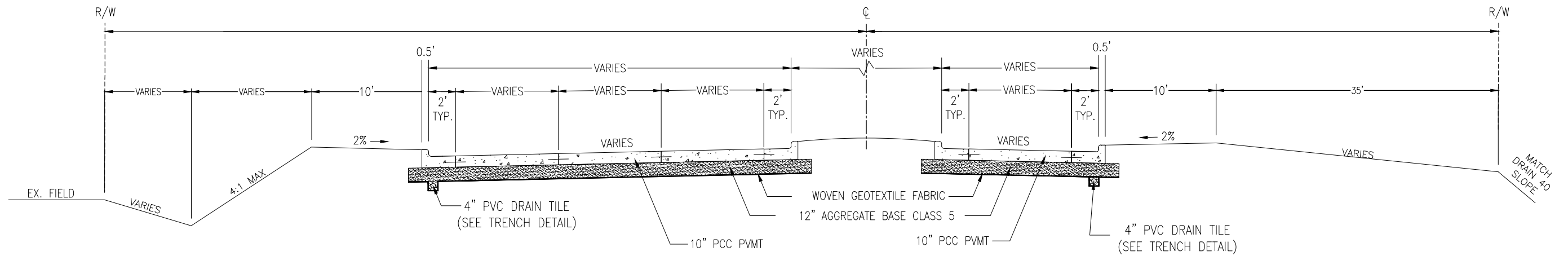
ALL ELEVATIONS ARE BASED ON  
NAVD 88 DATUM (PRE-GEOD18).  
(UNLESS NOTED OTHERWISE)

ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①

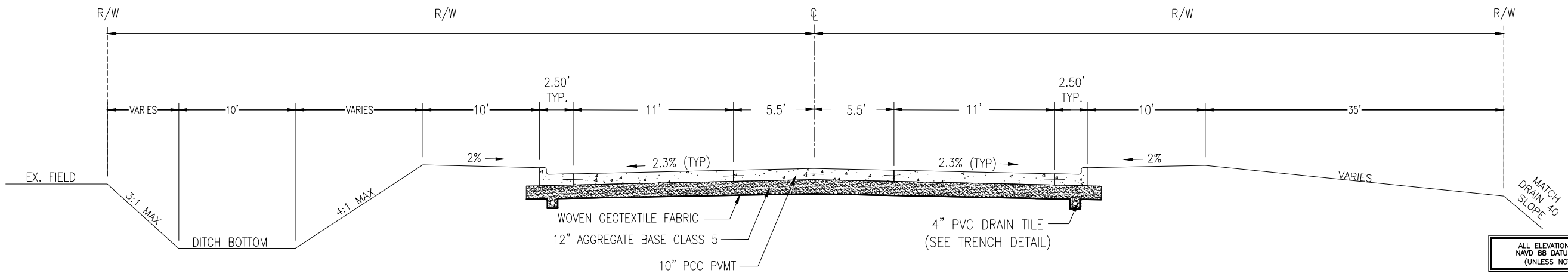
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General Details		
New Paving and Utility Construction		
Improvement District <b>BN-23-E1</b>		
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DRAWN BY: MJB	ORIG DATE: PlanDate	
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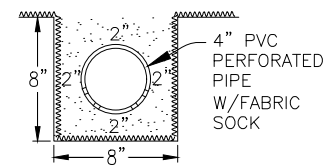
**PROPOSED TYPICAL SECTION - 45th St S**  
 STA. 1+85 TO 5+08 N.T.S.



**PROPOSED TYPICAL SECTION - 45th St N**  
 STA. 5+08 TO 17+65 N.T.S.  
 STA. 24+89 TO 45+42

ALL ELEVATIONS ARE BASED ON  
 NAVD 83 DATUM (PRE-GEOD18).  
 (UNLESS NOTED OTHERWISE)

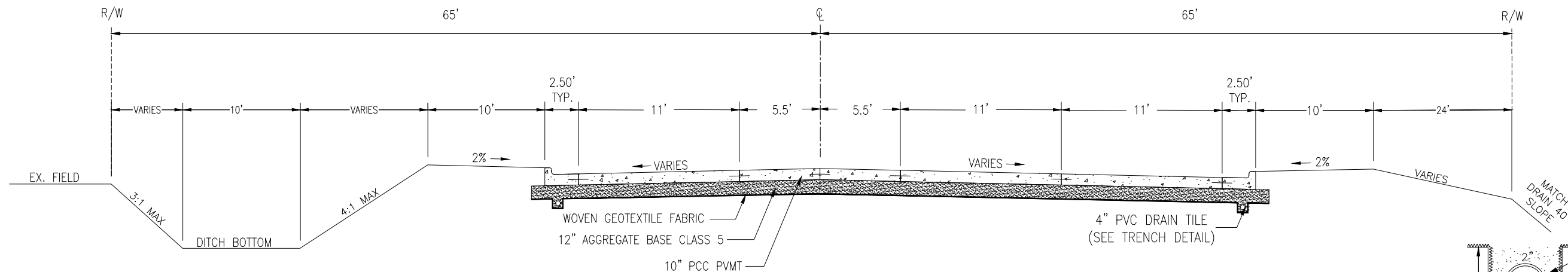
ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①
SEAL		
<b>Typical Section</b>		
New Paving and Utility Construction		
Improvement District <b>BN-23-E1</b>		
DESIGN BY: JTS	CHECKED BY: CB1	
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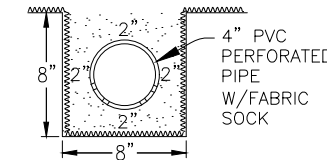
**TRENCH DETAIL**  
 N.T.S.

- NOTES:
- 1) SEE SECTION 90 FOR JOINTING AND REINFORCING PLANS.
  - 2) ALL CURB & GUTTER SHALL BE STANDARD TYPE II UNLESS OTHERWISE NOTED ON PLANS.
  - 3) SEE SECTION 200 FOR TYPICAL CROSS SECTIONS SHOWING: EXISTING GROUND, TOP OF CLAY AND FINISHED GRADE.

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**PROPOSED TYPICAL SECTION - 45th St N**  
 STA. 17+65 TO 21+28 N.T.S.



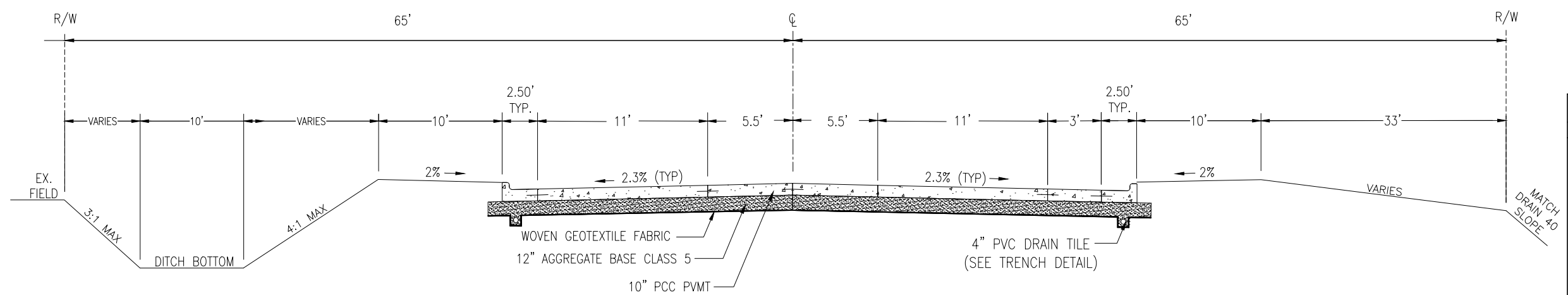
**TRENCH DETAIL**  
 N.T.S.

- NOTES:
- 1) SEE SECTION 90 FOR JOINTING AND REINFORCING PLANS.
  - 2) ALL CURB & GUTTER SHALL BE STANDARD TYPE II UNLESS OTHERWISE NOTED ON PLANS.
  - 3) SEE SECTION 200 FOR TYPICAL CROSS SECTIONS SHOWING: EXISTING GROUND, TOP OF CLAY AND FINISHED GRADE.

ALL ELEVATIONS ARE BASED ON NAVD 83 DATUM (PRE-GEOD18). (UNLESS NOTED OTHERWISE)

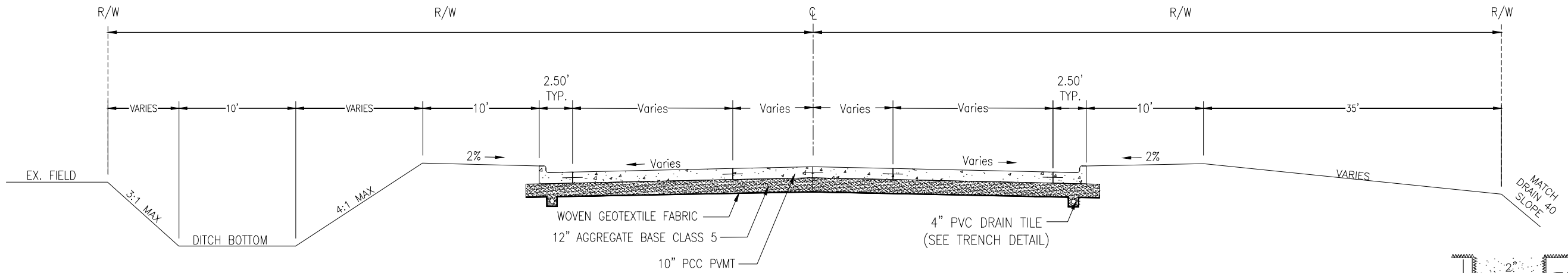
ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①

SEAL

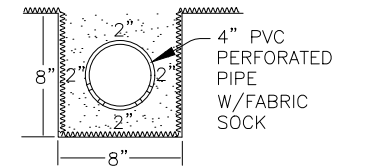


**PROPOSED TYPICAL SECTION - 45th St N**  
 STA. 21+26 TO 24+89

Typical Section		
New Paving and Utility Construction		
Improvement District <b>BN-23-E1</b>		
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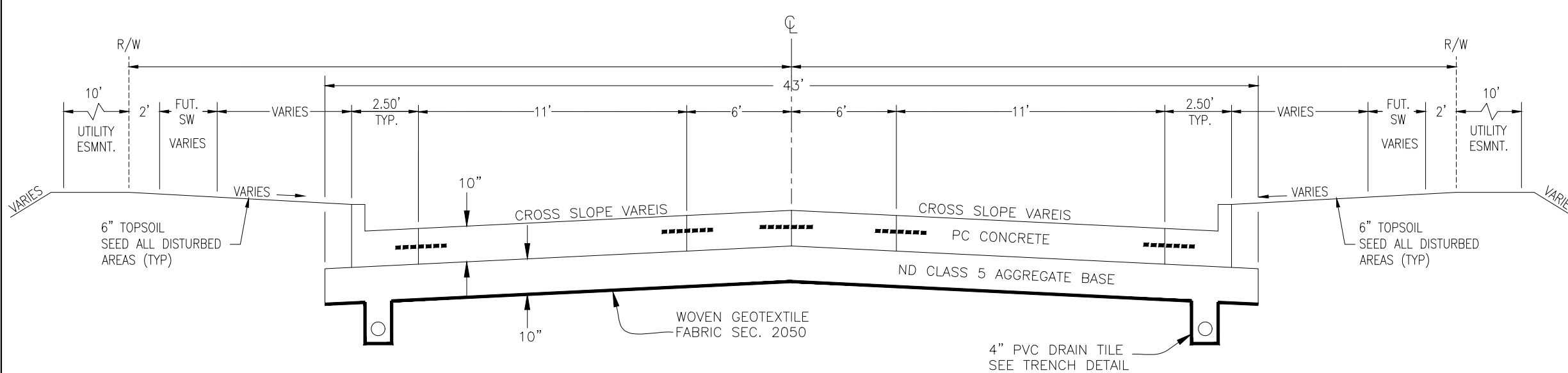
**PROPOSED TYPICAL SECTION - 45th St N**  
 STA. 45+42 TO 47+25 N.T.S.



**TRENCH DETAIL**

- NOTES:
- 1) SEE SECTION 90 FOR JOINTING AND REINFORCING PLANS.
  - 2) ALL CURB & GUTTER SHALL BE STANDARD TYPE II UNLESS OTHERWISE NOTED ON PLANS.
  - 3) SEE SECTION 200 FOR TYPICAL CROSS SECTIONS SHOWING: EXISTING GROUND, TOP OF CLAY AND FINISHED GRADE.

ALL ELEVATIONS ARE BASED ON NAVD 88 DATUM (PRE-GEOD18). (UNLESS NOTED OTHERWISE)



**PROPOSED TYPICAL SECTION - 28th Ave. N.**  
 56+01.54 TO 58+18.21 N.T.S.

ADDENDUM & CONSTRUCTION REVISIONS

③	②	①
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SEAL

**Typical Sections**

New Paving and Utility Construction

Improvement District **BN-23-E1**

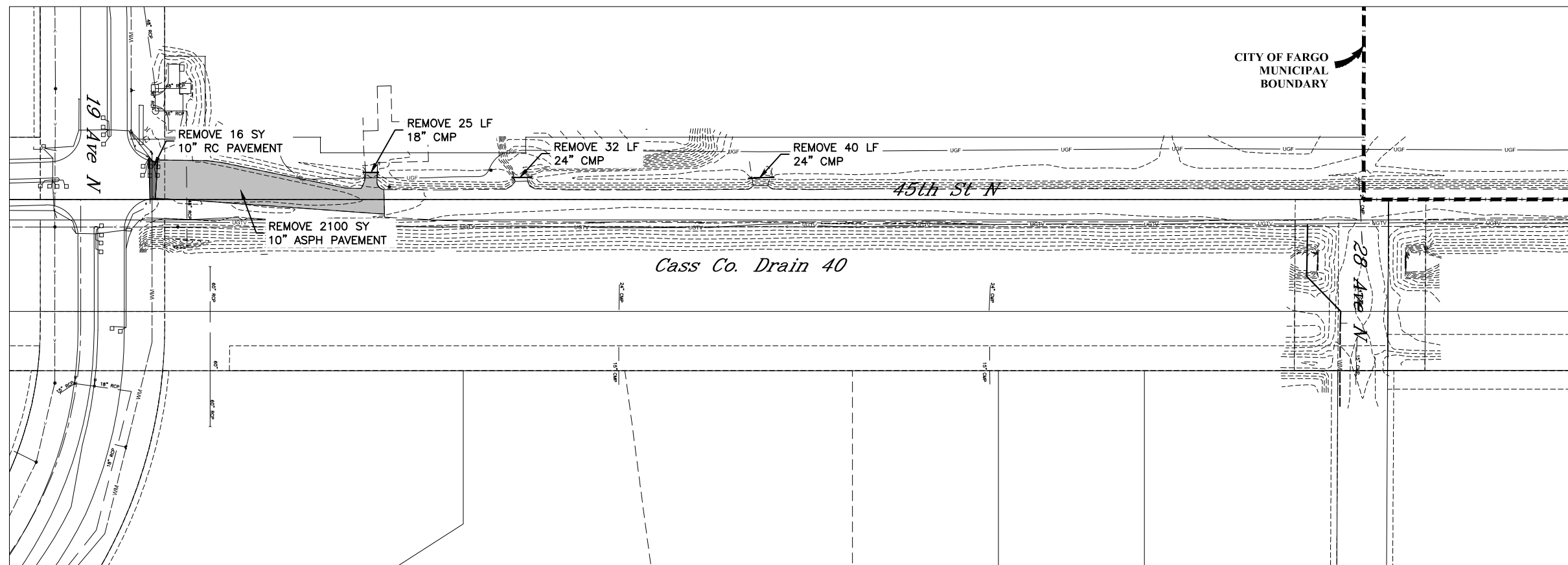
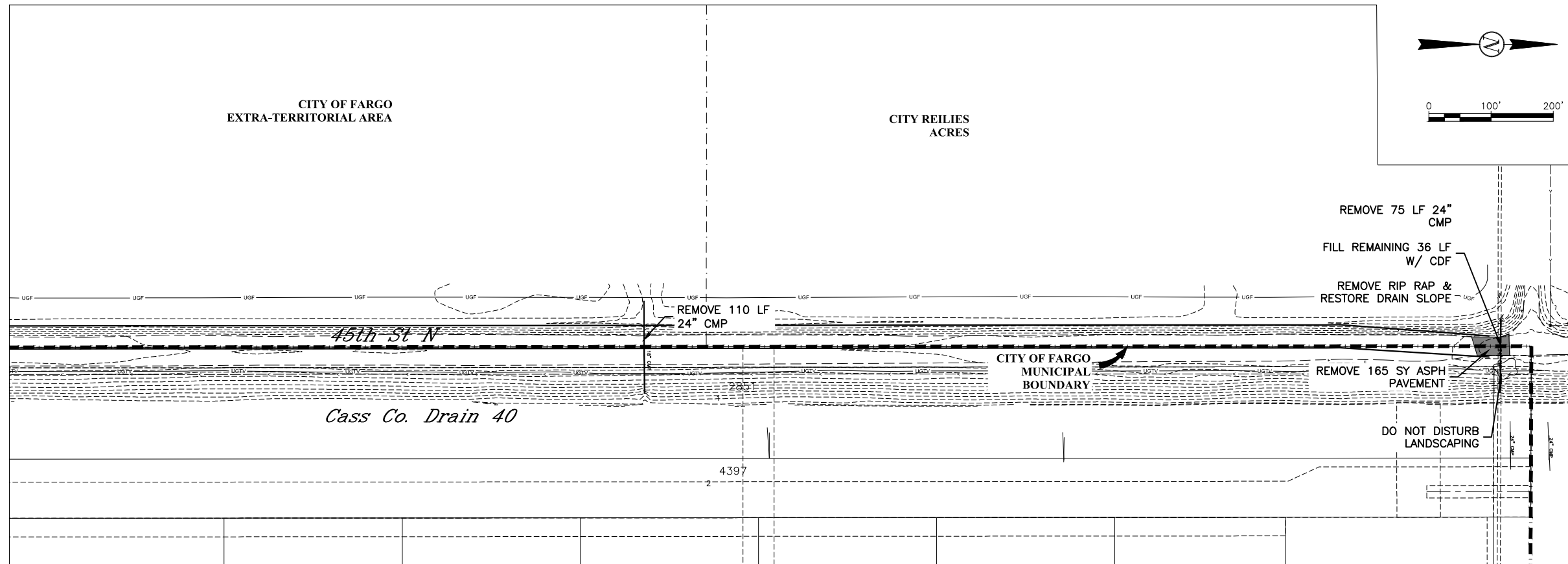
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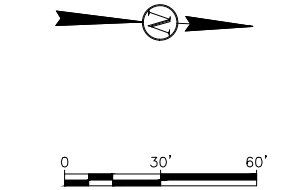
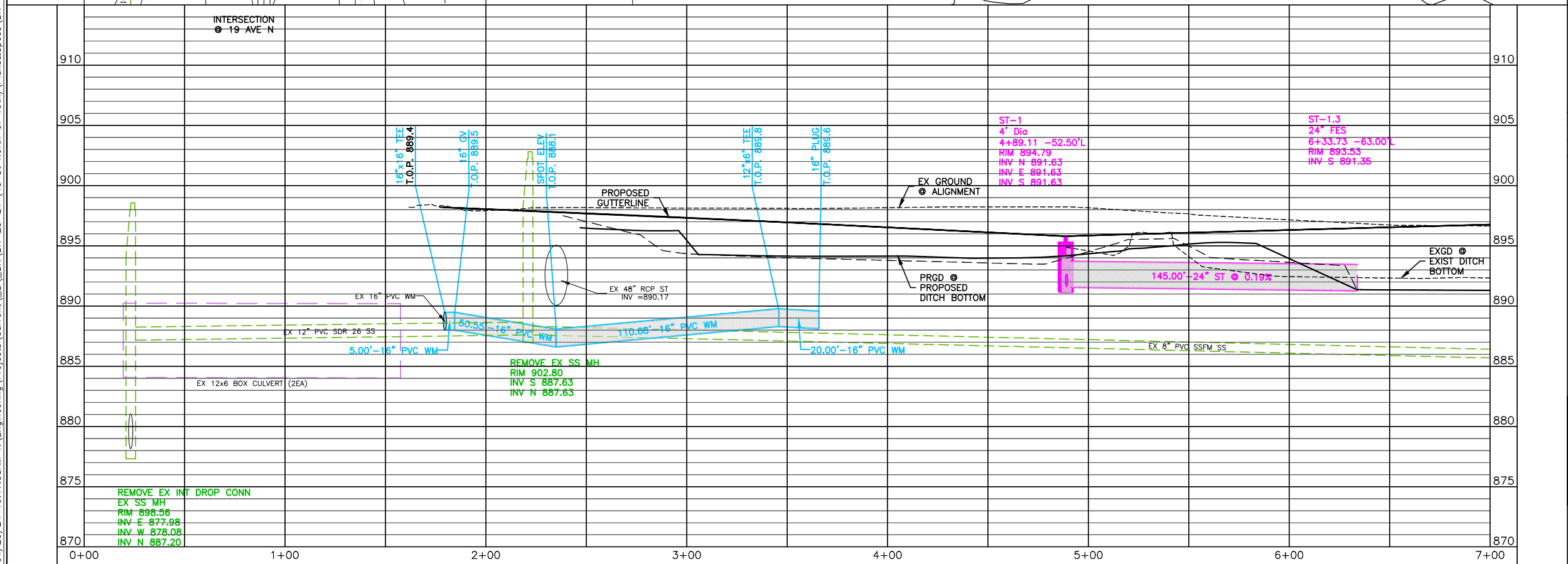
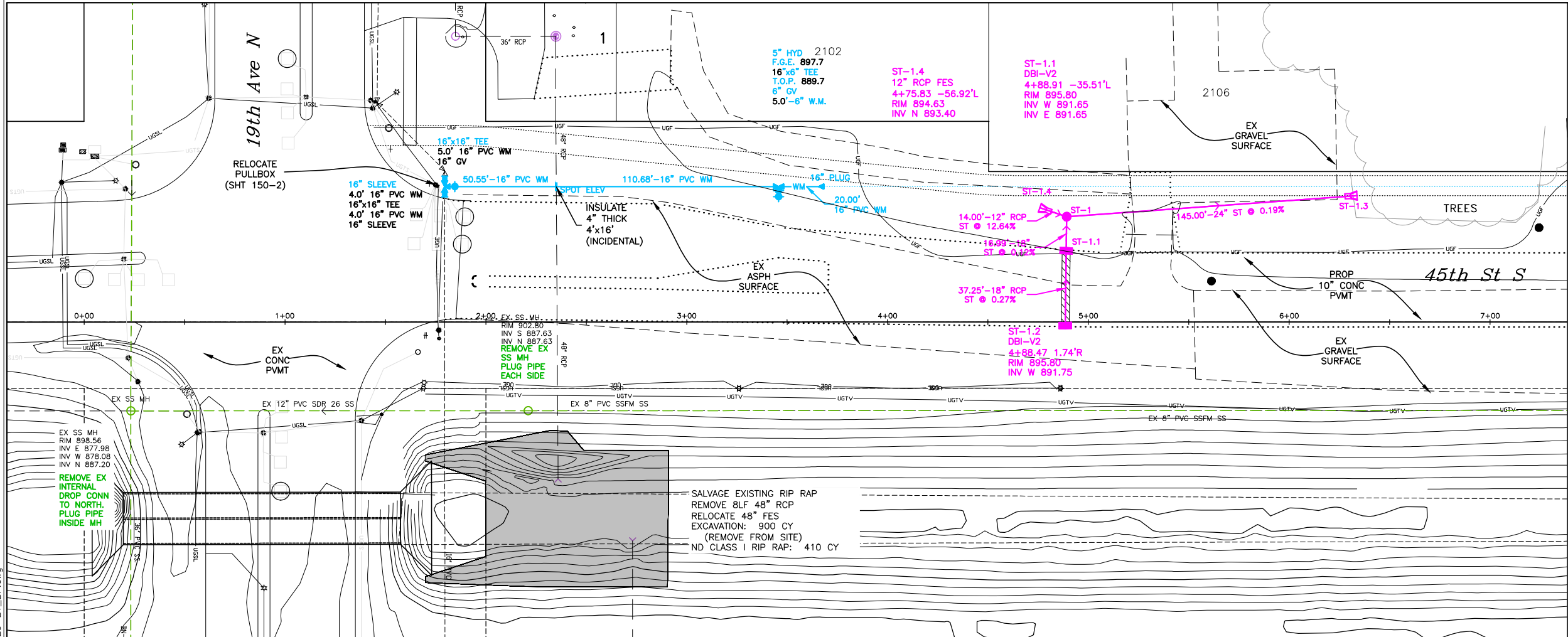
ALL ELEVATIONS ARE BASED ON NAVD 88 DATUM (PRE-GEOD18). (UNLESS NOTED OTHERWISE)

ADDENDUM & CONSTRUCTION REVISIONS

③	②	①
SEAL		
<b>Removals</b>		
New Paving and Utility Construction		

Improvement District <b>BN-23-E1</b>		
DESIGN BY: JTS	CHECKED BY: CB1	
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	<b>040</b>	<b>1</b>

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- NOTES:
1. (XXX.XXS) DENOTES TOP OF CURB STOP ELEVATION.
  2. CONTRACTOR SHALL USE MAINLINE WM OFFSET HUBS TO SET CURB STOP ELEVATIONS.
  3. WYE STATIONING IS FROM DOWNSTREAM MANHOLE.
  4. INVERT AT SERVICE END SHALL BE 8' BELOW CS GRADE.
  5. CONTRACTOR SHALL MAINTAIN 1% MINIMUM SLOPE FROM SERVICE END TO SEWER MAIN.
  6. ALL WATER MAIN TO HAVE A MINIMUM 7.5' OF COVER.

GRAVEL BACKFILL

ALL ELEVATIONS ARE BASED ON NAVD 88 DATUM (PRE-GEOD18). (UNLESS NOTED OTHERWISE)

ADDENDUM & CONSTRUCTION REVISIONS

③	②	①
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SEAL

**45th St Utilities**

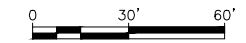
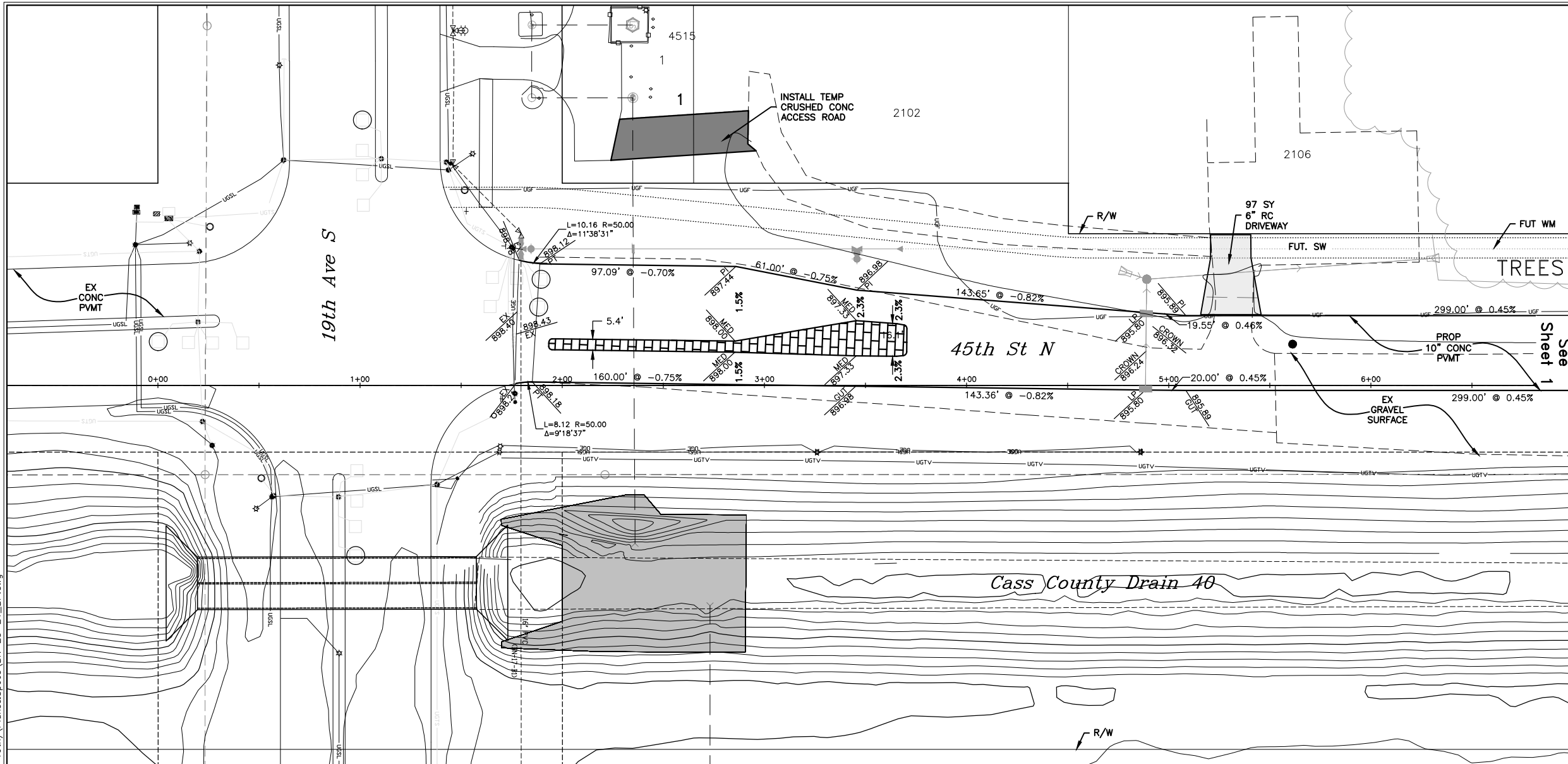
New Paving and Utility Construction

Improvement District **BN-23-E1**

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- NOTES:**
1. ALL GRADES ARE FLOWLINE GRADES UNLESS OTHERWISE NOTED.
  2. ALL CURB IS STANDARD TYPE II UNLESS OTHERWISE NOTED.

GRAVEL BACKFILL

ALL ELEVATIONS ARE BASED ON NAVD 88 DATUM (PRE-GEOID18). (UNLESS NOTED OTHERWISE)

ADDENDUM & CONSTRUCTION REVISIONS

③	②	①
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SEAL

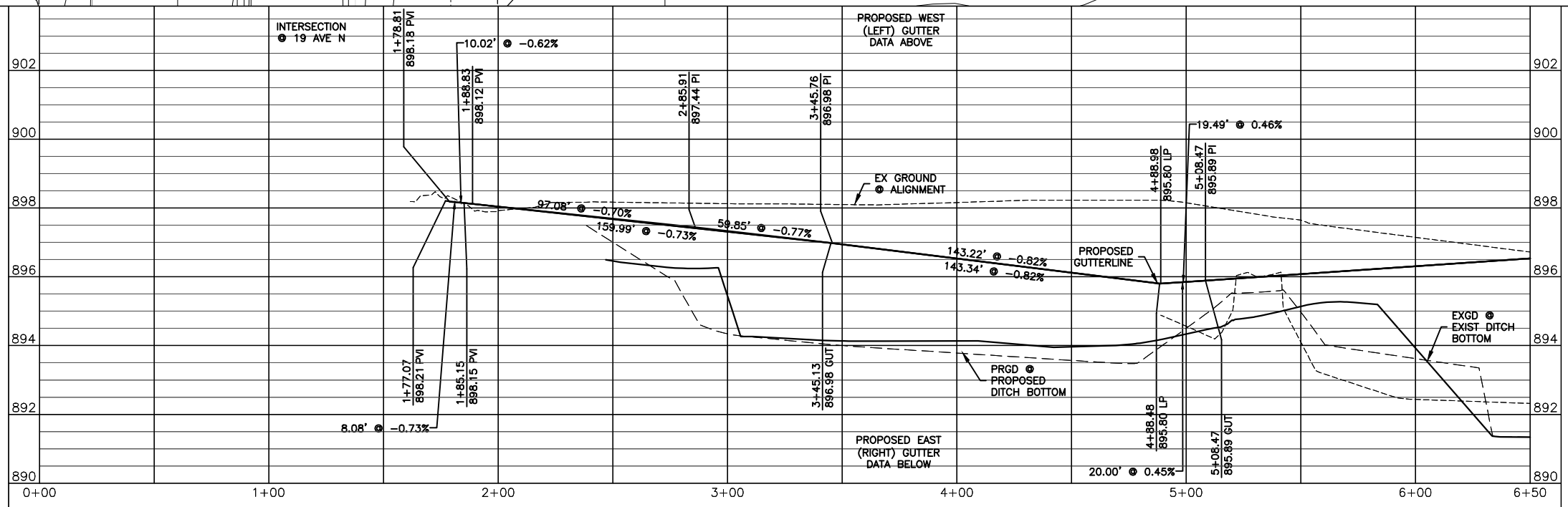
**45th St N Paving**

New Paving and Utility Construction

Improvement District **BN-23-E1**

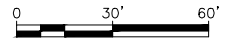
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DRAWN BY: MJB	ORIG DATE: PlanDate

	SECTION NO.	SHEET NO.
	<b>060</b>	<b>1</b>





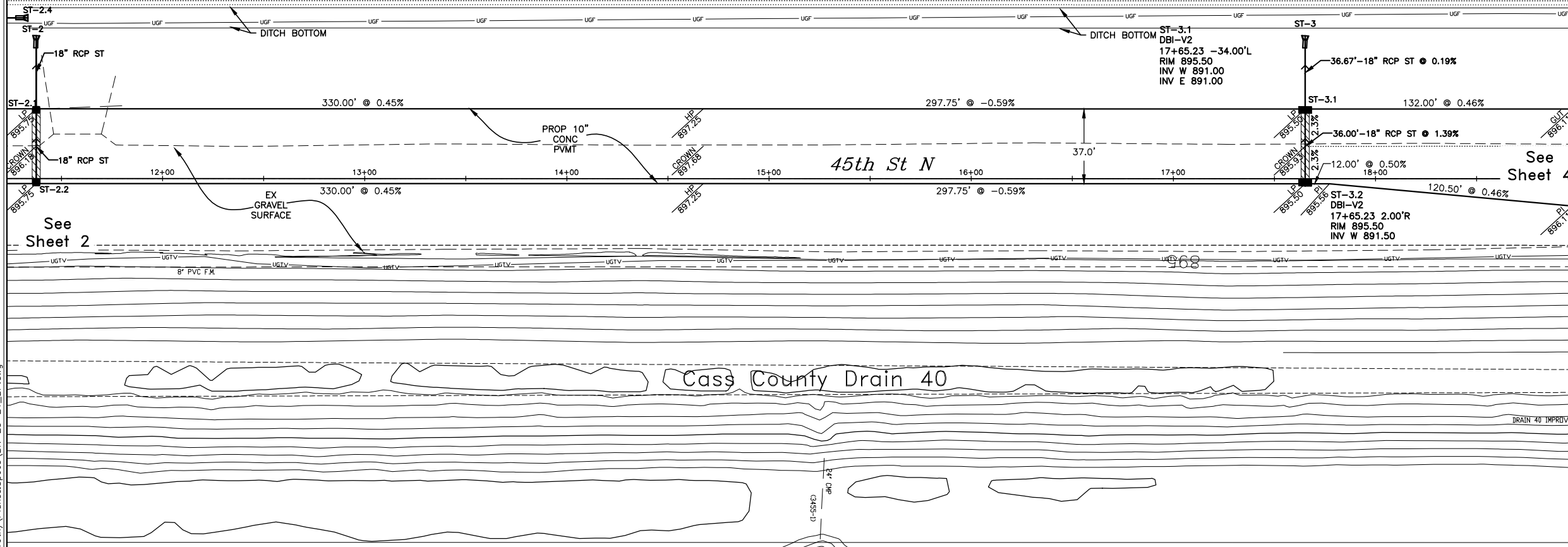
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ST-3  
18" RCP FES  
17+65.23 -70.67'L  
RIM 892.78  
INV E 890.93

NOTES:

1. ALL GRADES ARE FLOWLINE GRADES UNLESS OTHERWISE NOTED.
2. ALL CURB IS STANDARD TYPE II UNLESS OTHERWISE NOTED.



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ALL ELEVATIONS ARE BASED ON NAVD 88 DATUM (PRE-GEOID18). (UNLESS NOTED OTHERWISE)

ADDENDUM & CONSTRUCTION REVISIONS

③	②	①
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SEAL

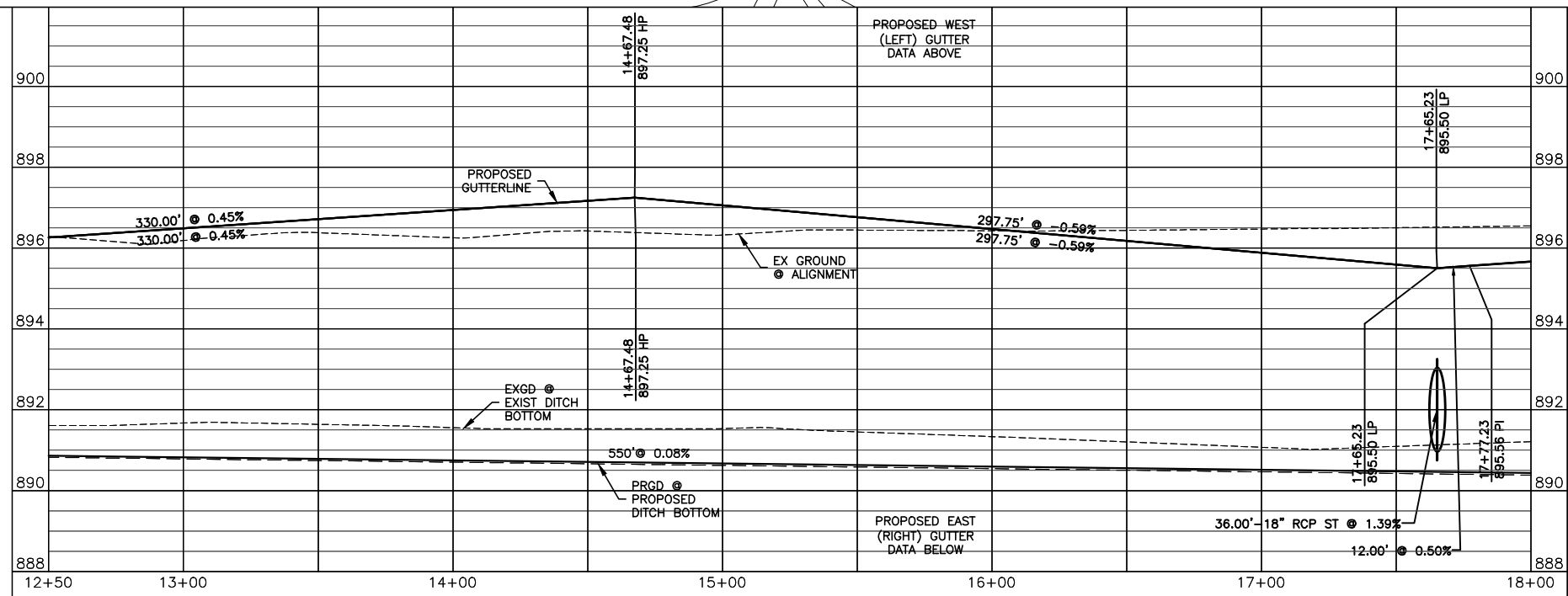
**45th St N Paving**

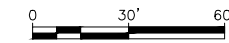
New Paving and Utility Construction

Improvement District **BN-23-E1**

DESIGN BY: JTS	CHECKED BY: CB1
DRAWN BY: MJB	ORIG DATE: PlanDate

	SECTION NO.	SHEET NO.
	060	3





**NOTES:**

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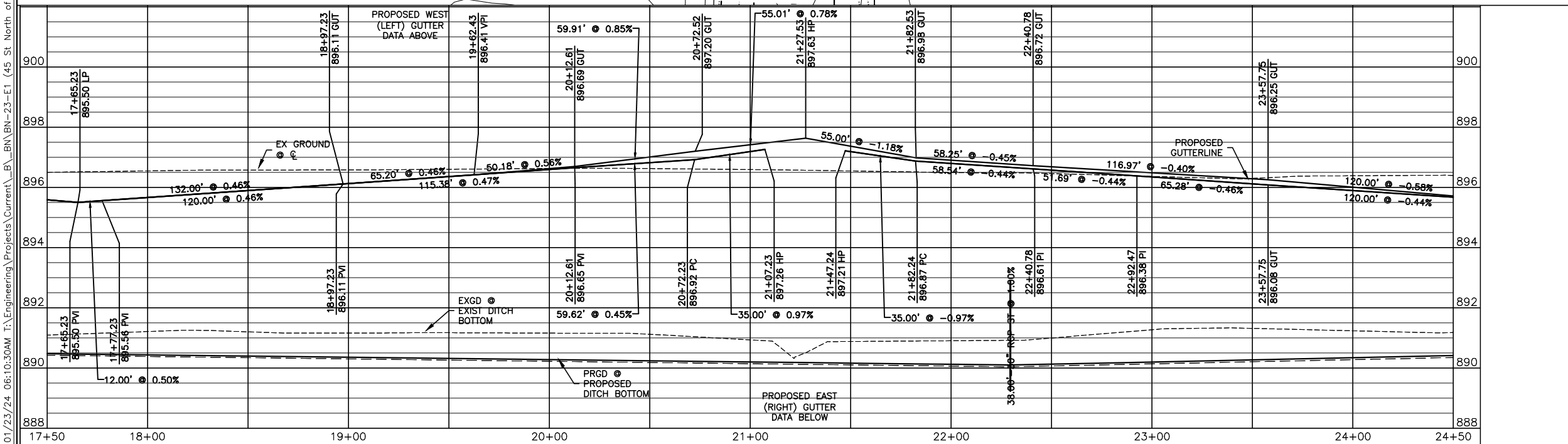
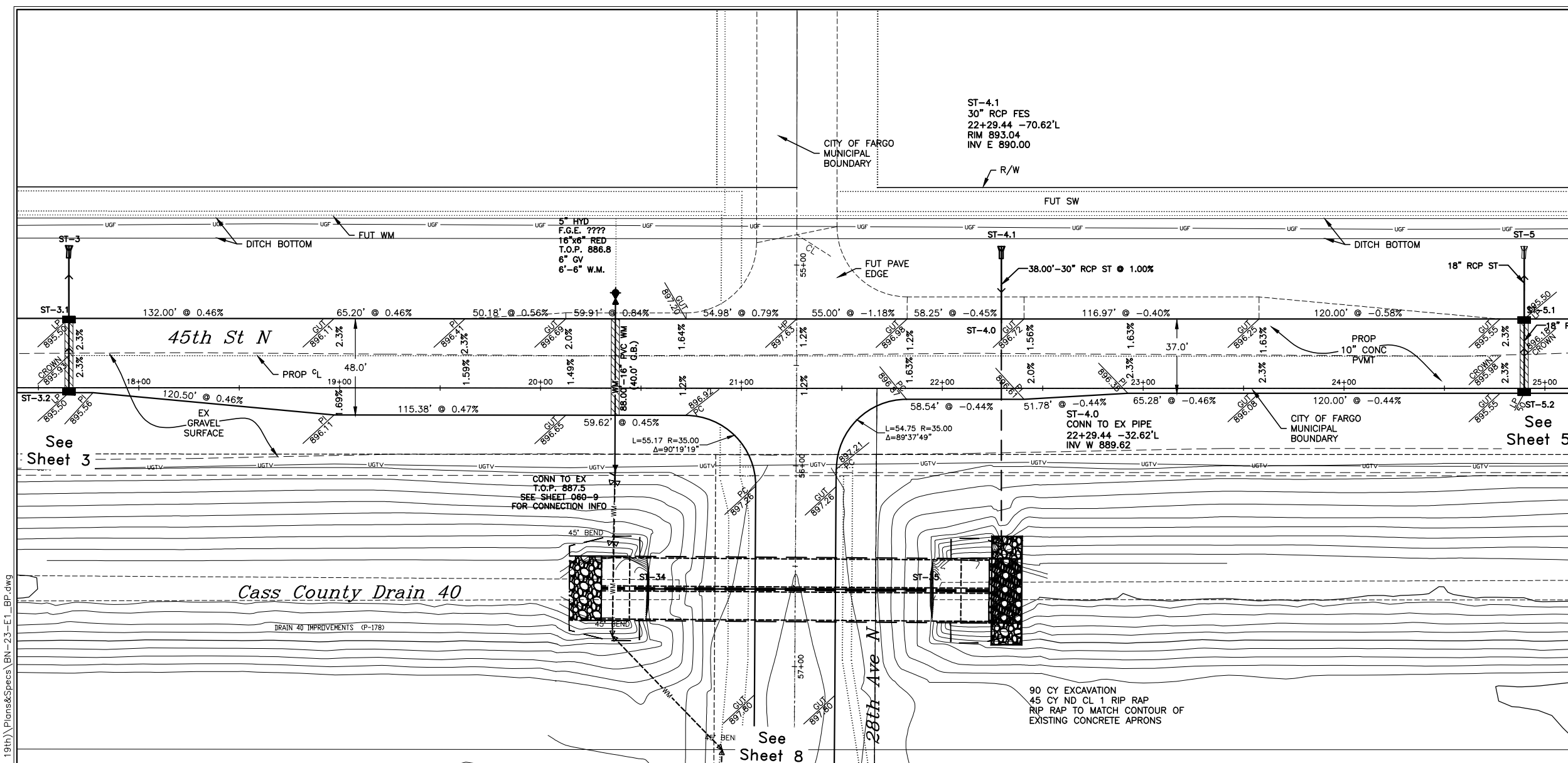
ALL ELEVATIONS ARE BASED ON NAVD 88 DATUM (PRE-GEOID18). (UNLESS NOTED OTHERWISE)

ADDENDUM & CONSTRUCTION REVISIONS

③	②	①
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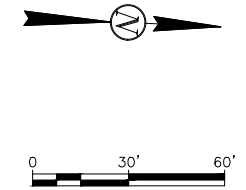
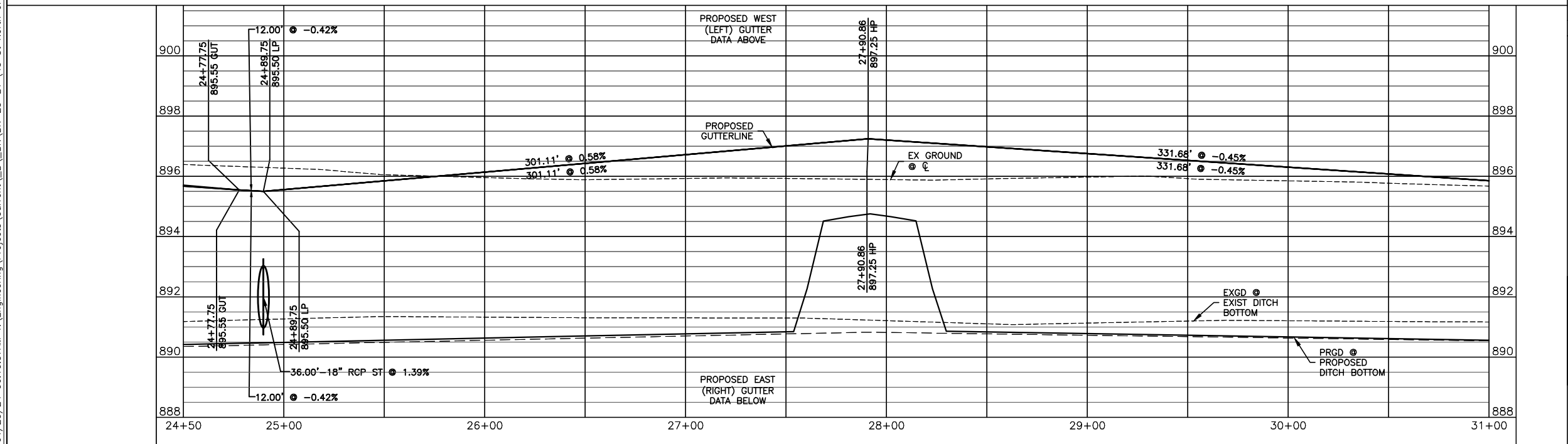
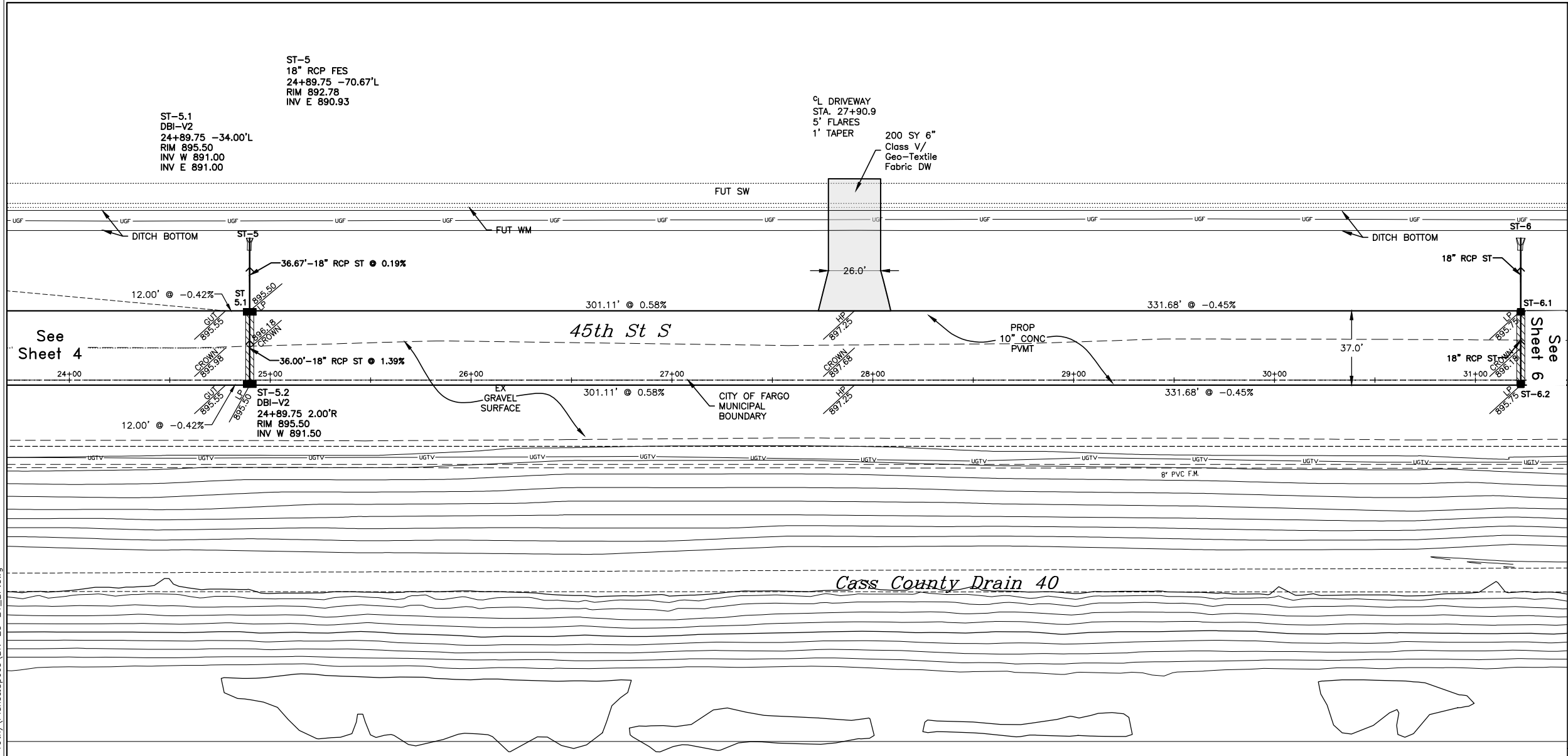
SEAL

<b>45th St N Paving</b>	
New Paving and Utility Construction	
Improvement District <i>BN-23-E1</i>	
DESIGN BY: JTS	CHECKED BY: CB1
DRAWN BY: MJB	ORIG DATE: PlanDate
	SECTION NO.
	<b>060</b>
SHEET NO.	<b>4</b>



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01/23/24 06:10:57AM T:\Engineering\Projects\Current\B\BN\BN-23-E1 (45 St North of 19th)\Plans&Specs\BN-23-E1\_BP.dwg



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ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①

SEAL

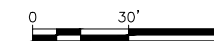
**45th St N Paving**

New Paving and Utility Construction

Improvement District **BN-23-E1**

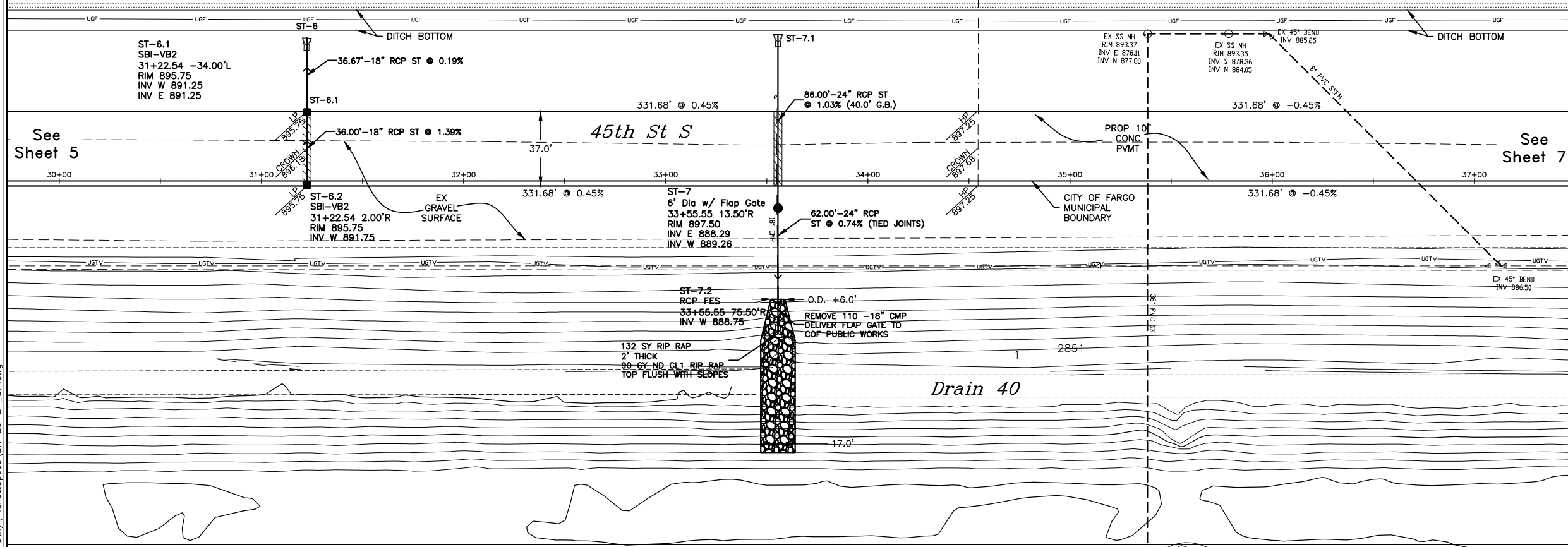
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DRAWN BY: MJB	ORIG DATE: PlanDate
	SECTION NO.
	060
SHEET NO.	5

City of Fargo ET      City Reilie's Acres



ST-6  
18" RCP FES  
31+22.54 -70.67'L  
RIM 893.03  
INV E 891.18

ST-7.1  
24" RCP FES  
33+55.55 -72.50'L  
INV E 890.15



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ADDENDUM & CONSTRUCTION REVISIONS

③      ②      ①

SEAL

**45th St N Paving**

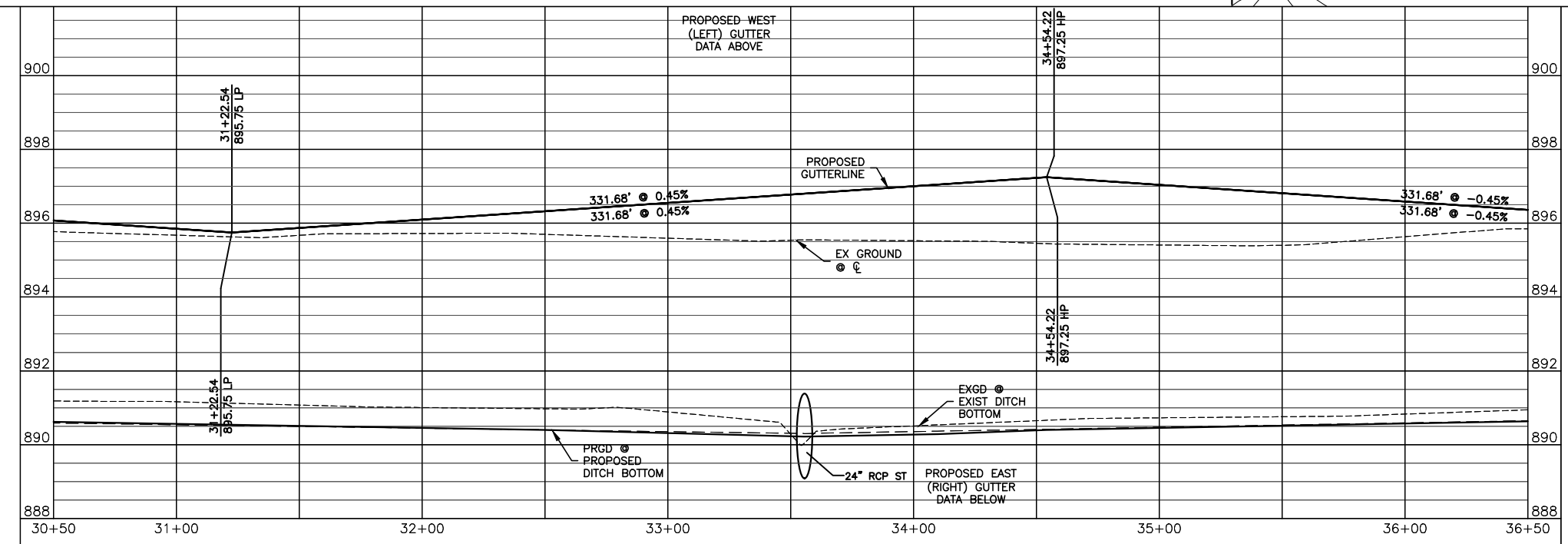
New Paving and Utility Construction

Improvement District **BN-23-E1**

DESIGN BY: JTS      CHECKED BY: CB1  
DRAWN BY: MJB      ORIG DATE: PlanDate

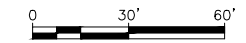


SECTION NO.	SHEET NO.
060	6



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ADDENDUM & CONSTRUCTION REVISIONS

③	②	①
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SEAL

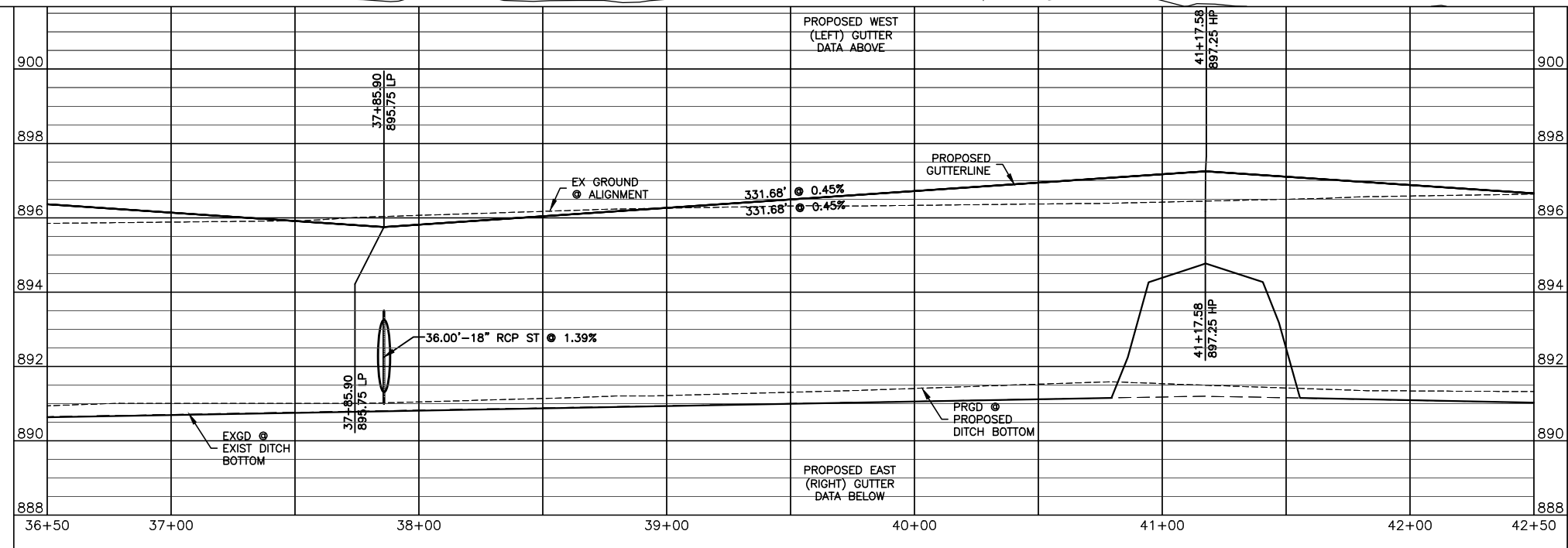
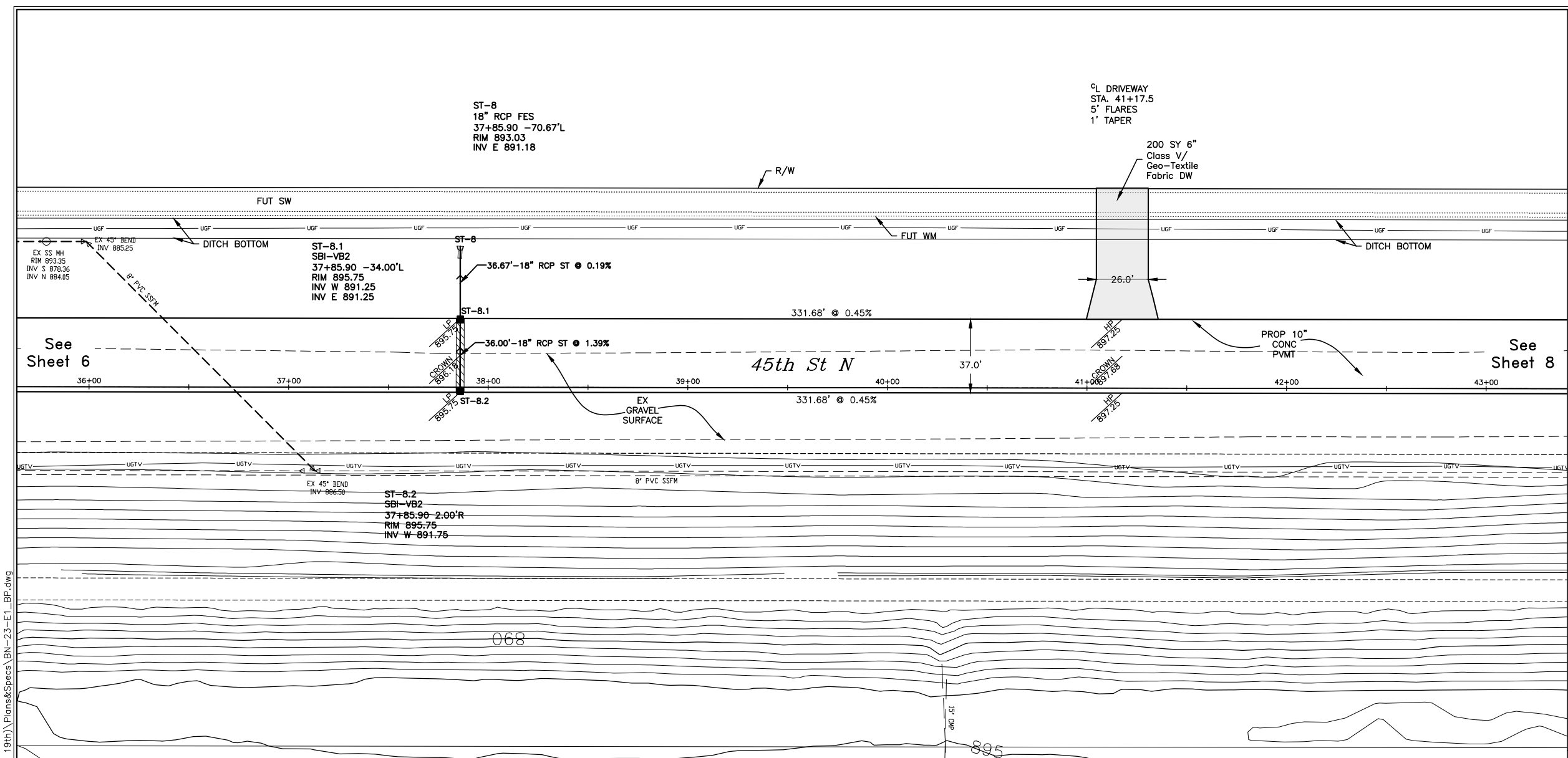
**45th St N Paving**

New Paving and Utility Construction

Improvement District **BN-23-E1**

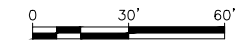
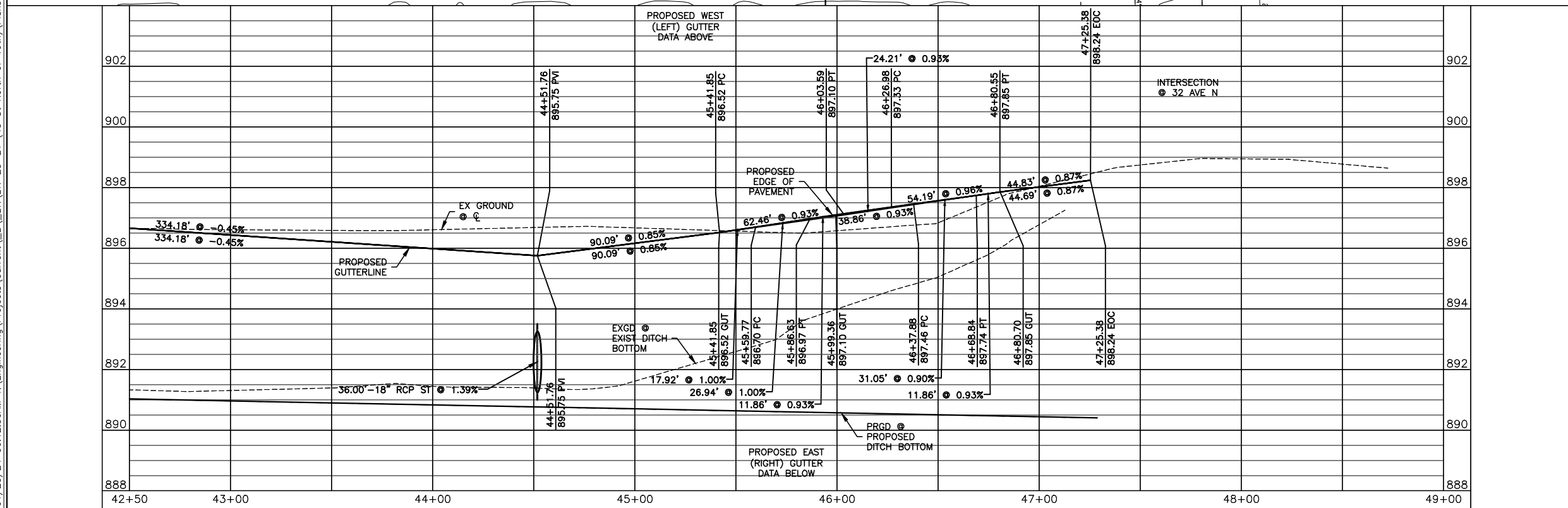
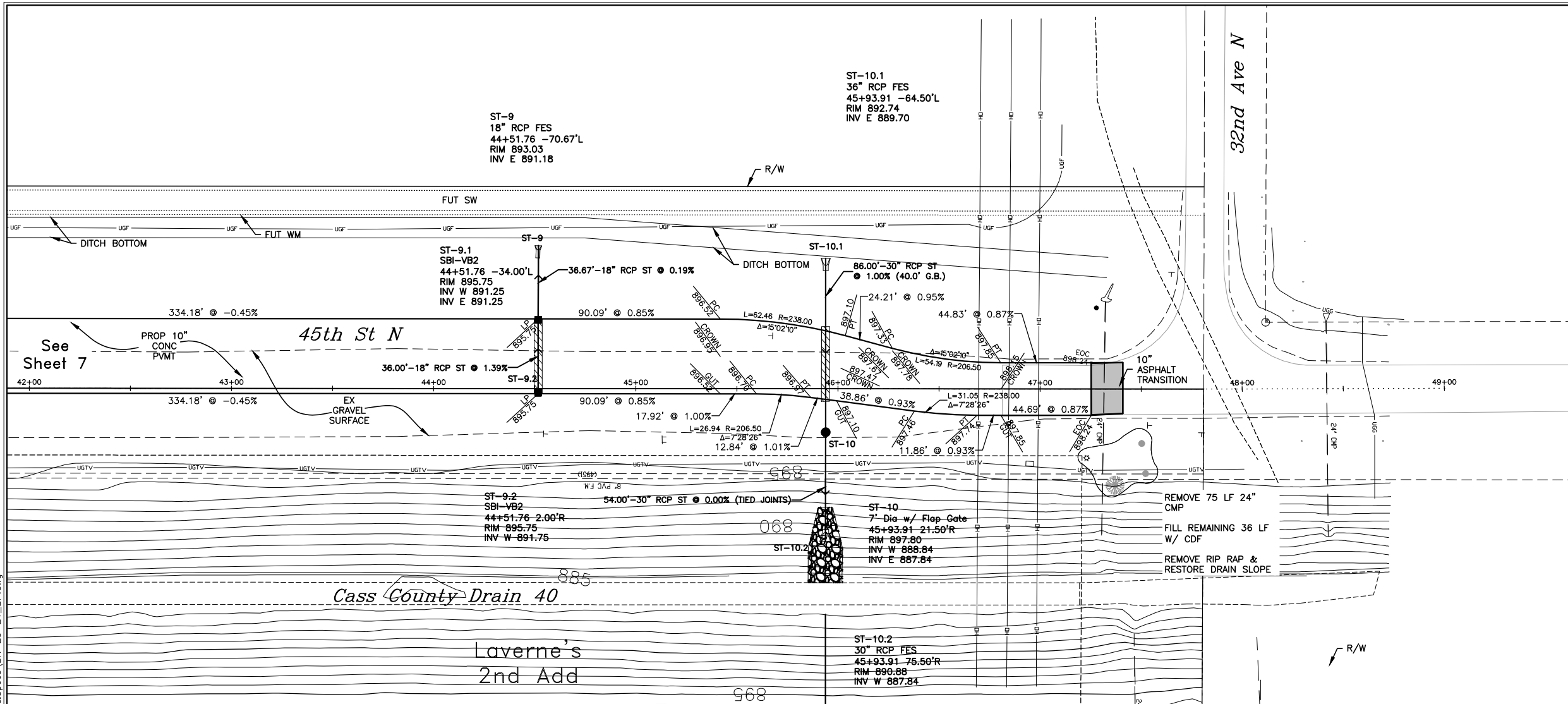
DESIGN BY: JTS	CHECKED BY: CB1
DRAWN BY: MJB	ORIG DATE: PlanDate

	SECTION NO.	SHEET NO.
	<b>060</b>	<b>7</b>



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01/23/24 08:12:50AM T:\Engineering\Projects\Current\B\BN\BN-23-E1 (45 St North of 19th)\Plans&Specs\BN-23-E1\_BP.dwg



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ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①

SEAL

**45th St N - Paving**

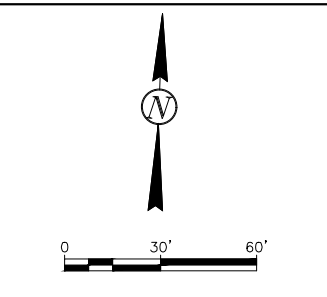
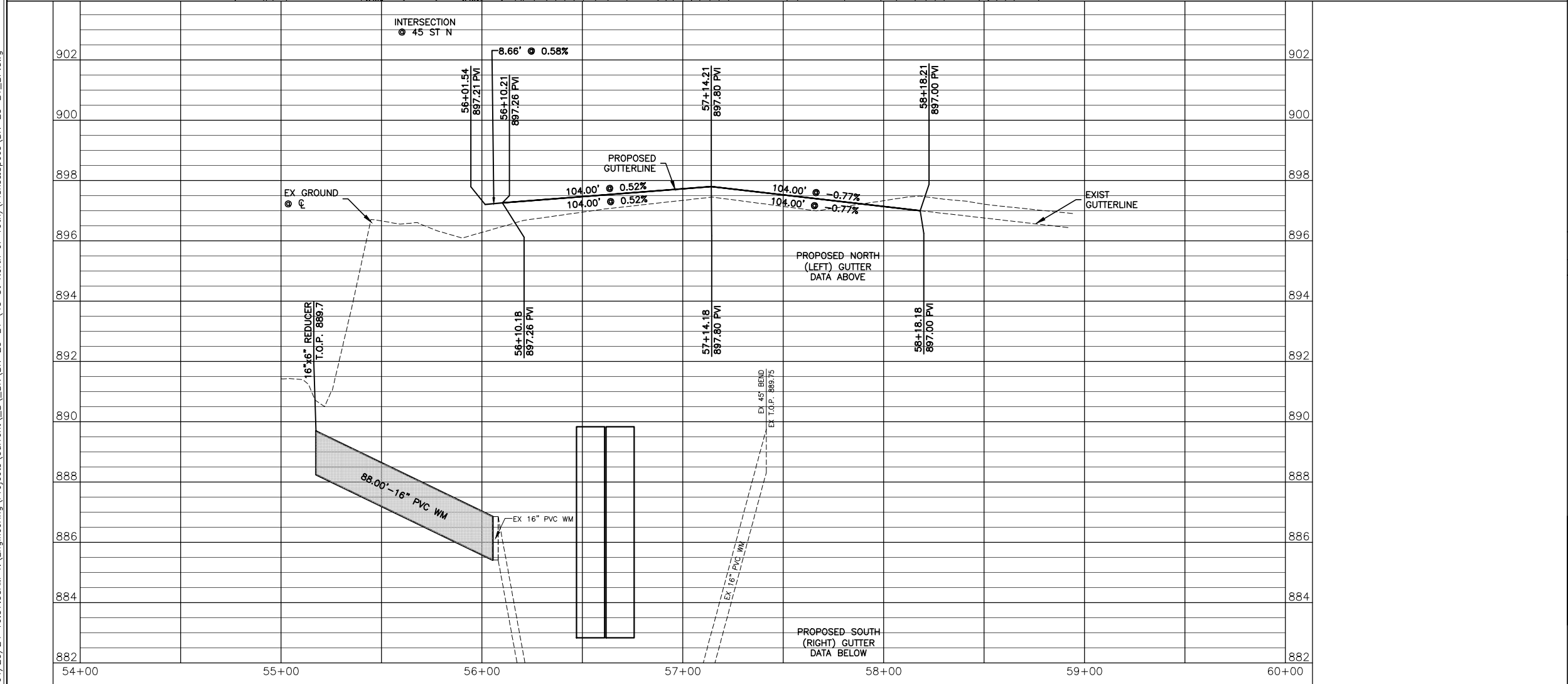
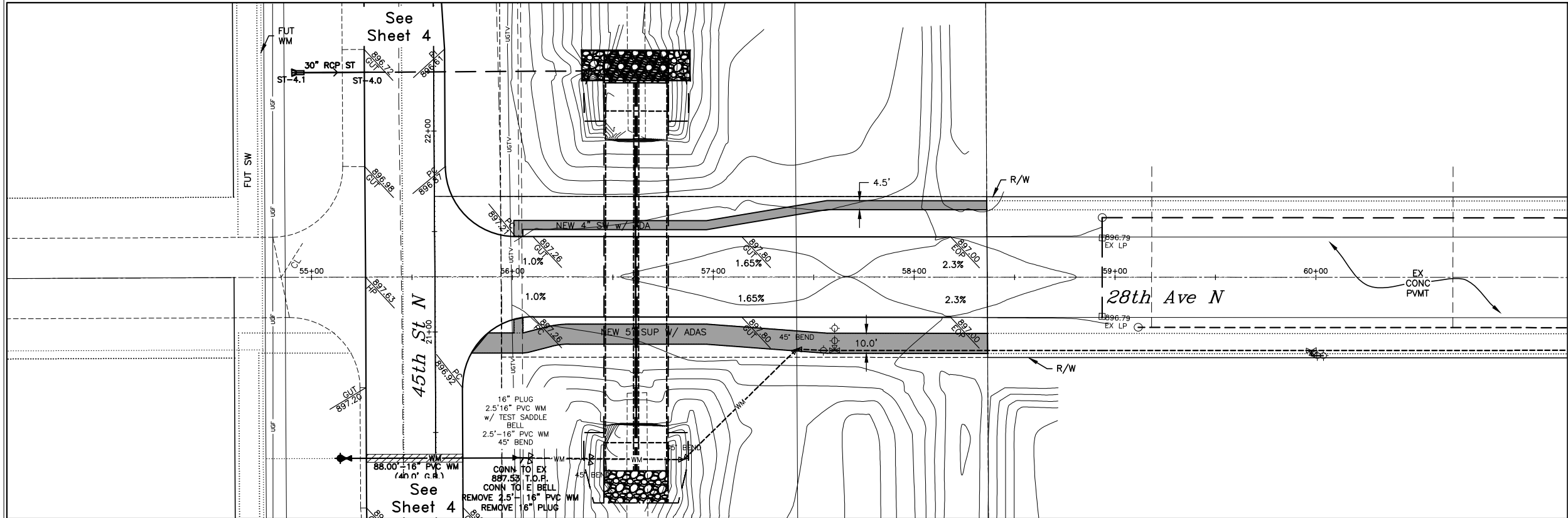
New Paving and Utility Construction

Improvement District **BN-23-E1**

DESIGN BY: JTS	CHECKED BY: CB1
DRAWN BY: MJB	ORIG DATE: PlanDate

	SECTION NO.	SHEET NO.
	<b>060</b>	<b>8</b>

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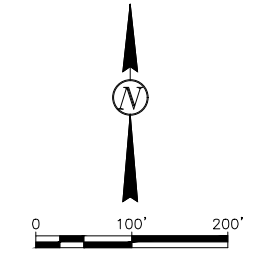
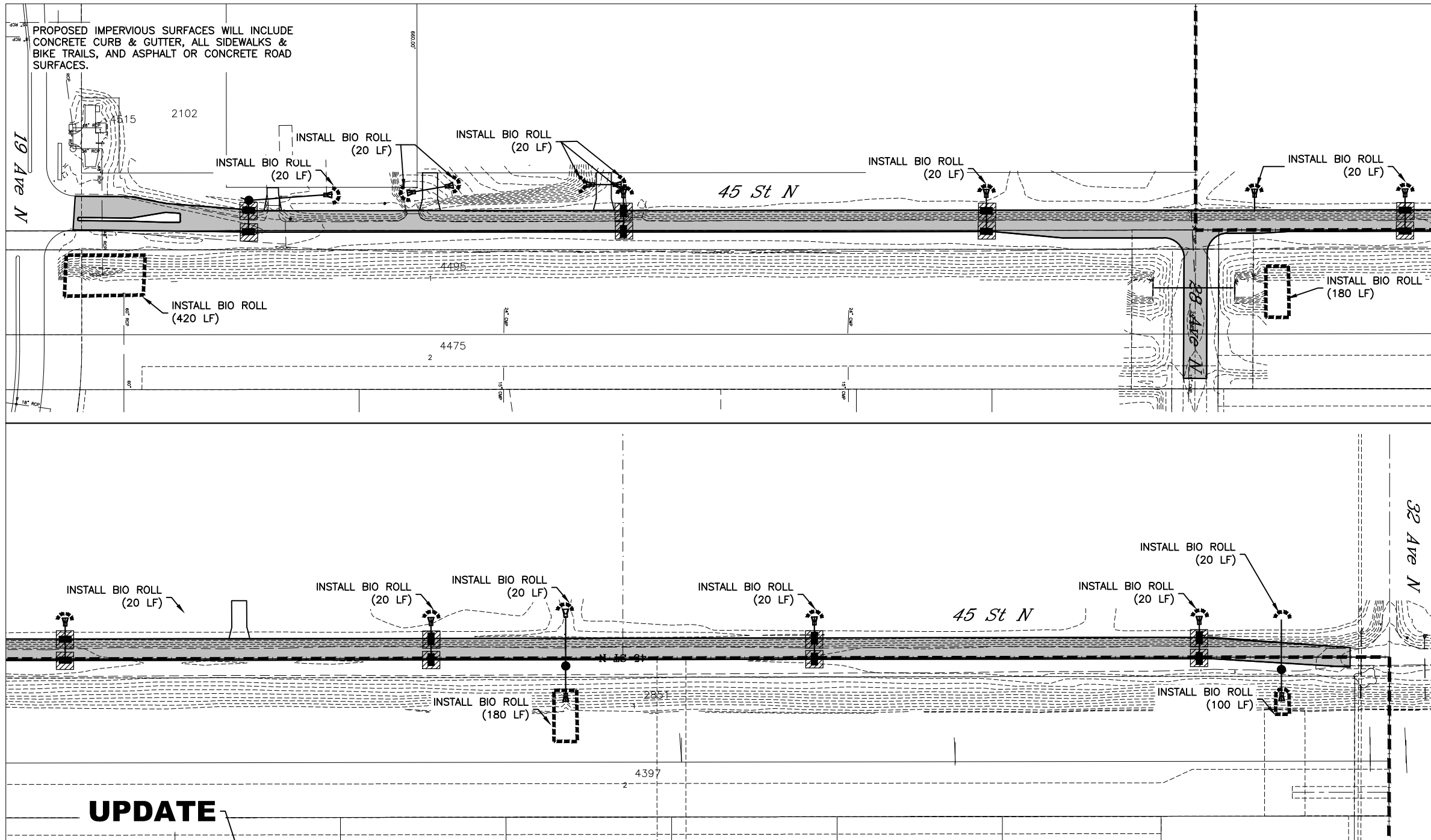
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ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①

SEAL

28th Ave N - Paving		
New Paving and Utility Construction		
Improvement District <i>BN-23-E1</i>		
DESIGN BY: JTS	CHECKED BY: CB1	
DRAWN BY: MJB	ORIG DATE: PlanDate	
	SECTION NO.	SHEET NO.
	060	9



**LEGEND:**

- ■ ■ PROPOSED SILT FENCE
- BIO ROLL
- INLET PROTECTION - EXISTING INLET
- ▨ INLET PROTECTION - NEW INLET
- EX STORM INLET
- EX STORM MH
- - - EX STORM SEWER
- PROPOSED STORM SEWER
- CONSTRUCTION LIMITS
- FLOW DIRECTION
- FLOW
- ▨ TEMPORARY CONSTRUCTION ENTRANCE
- ▨ DO NOT DISTURB AREA
- HP/LP HIGH POINTS AND LOW POINTS

**OWNER/DEVELOPER/ENGINEER:**  
 CITY OF FARGO  
 ENGINEERING DEPARTMENT  
 225 4TH ST NORTH  
 FARGO, ND 58102  
 ATTN: Jason Satterlund  
 (O): 701-241-1545  
 (F): 701-241-8101  
 Email: JSatterlund@FargoND.gov

ALL ELEVATIONS ARE BASED ON  
 NAVD 88 DATUM (PRE-GEOD18).  
 (UNLESS NOTED OTHERWISE)

ADDENDUM & CONSTRUCTION REVISIONS

③	②	①
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SEAL

<b>ESC Plan</b>	
New Paving and Utility Construction	
Improvement District <b>BN-23-E1</b>	
DESIGN BY: JTS	CHECKED BY: CB1
DRAWN BY: MJB	ORIG DATE: PlanDate
SECTION NO.	SHEET NO.
075	1

**UPDATE**

**PROJECT DESCRIPTION:**  
 THIS PROJECT CONSISTS OF THE FOLLOWING IMPROVEMENTS: DESCRIBE KEY COMPONENTS OF THE PROJECT.

**TOTAL SITE AREA:**  
 THE TOTAL SITE AREA IMPACTED BY CONSTRUCTION IS XXX.XX ACRES.

**EXISTING SITE CONDITIONS:**

- AGRICULTURAL LAND.
- LESS THAN TWO FEET OF GRADE CHANGE ACROSS THE SITE.
- THE AREA TO THE NORTH OF THIS SITE IS UNDEVELOPED AGRICULTURAL LAND. THE AREAS TO THE WEST AND SOUTH ARE FULLY DEVELOPED. THE AREA TO THE EAST IS PARTIALLY DEVELOPED WITH UNDERGROUND UTILITIES INSTALLED

**CRITICAL AREAS:**  
 CRITICAL EROSION AREAS INCLUDE AREAS WHERE SLOPES EXCEED 5:1. CUT AND FILL SLOPES FOR THIS PROJECT IS DESIGNED AT A 5:1 MAXIMUM. OTHER CRITICAL AREAS INCLUDE LOCATIONS DESIGNED TO RECEIVE CONCENTRATED RUNOFF (SWALES & PIPE OUTFALLS). ADDITIONAL POINTS OF CONCERN ARE LOCATED AT THE INGRESS AND EGRESS LOCATIONS FOR CONSTRUCTION TRAFFIC. THESE AREAS WILL BE PROTECTED FROM EROSION BY MEASURES INDICATED ON THE PLANS.

**FLOOD CERTIFICATE:**  
 PORTIONS OF THIS PROJECT LIE WITHIN ZONE XX PER FIRM PANEL 38017C XXXX X EFFECTIVE JANUARY 16, 2015.

**RECEIVING WATERS:**  
 STORM WATER FROM THIS SITE WILL BE COLLECTED IN AN EXISTING STORM SEWER SYSTEM. THE ULTIMATE RECEIVING WATERS FOR THIS PROJECT WILL BE THE RED RIVER.

**GENERAL NOTES:**

- REFER TO SPECIAL INSTRUCTIONS SHEETS FOR ADDITIONAL PROVISIONS REQUIRED TO BE ADDED BY THE CONTRACTOR WITHIN THIS ESC PLAN SHEET AS WELL AS SWPPP RESPONSIBILITIES AND PERMITTING REQUIREMENTS.
- THE CONTRACTOR SHALL PERFORM INSPECTIONS AT A MINIMUM OF EVERY TWO WEEKS AND AFTER EACH RAIN EVENT MEASURING 0.25" OR GREATER.
- CONTRACTOR SHALL MAINTAIN A LOG OF ALL COMPLETED INSPECTIONS.
- NO ON-SITE SURFACE WATERS AND NO DIRECT DISCHARGE TO SURFACE WATERS UNDER PROJECT.

- A COPY OF THE INSPECTION LOG, EROSION CONTROL PLAN, AND SWPPP SHALL REMAIN ON SITE AT ALL TIMES.
- THE OFFICIAL RAIN GAGE FOR THIS SITE IS LOCATED AT: HECTOR INTERNATIONAL AIRPORT
- CONTRACTOR SHALL NOTIFY CITY EROSION INSPECTOR ONCE REPAIRS/MODIFICATIONS HAVE BEEN MADE AND SHALL KEEP A LOG OF ALL MODIFICATIONS/REPAIRS ON SITE.
- A COMPLETED N.O.T. SHALL BE SUBMITTED BY THE CONTRACTOR TO THE STATE AND THE CITY OF FARGO PRIOR TO FINAL ACCEPTANCE.
- CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL DEVICES ON THIS SITE UNTIL FINAL ACCEPTANCE.
- CONTRACTOR SHALL UPDATE THIS EROSION CONTROL PLAN AS NEEDED TO REFLECT MEASURES IMPLEMENTED IN THE FIELD DURING CONSTRUCTION.
- ON-SITE CONVEYANCES ARE STORM DRAIN SYSTEM.

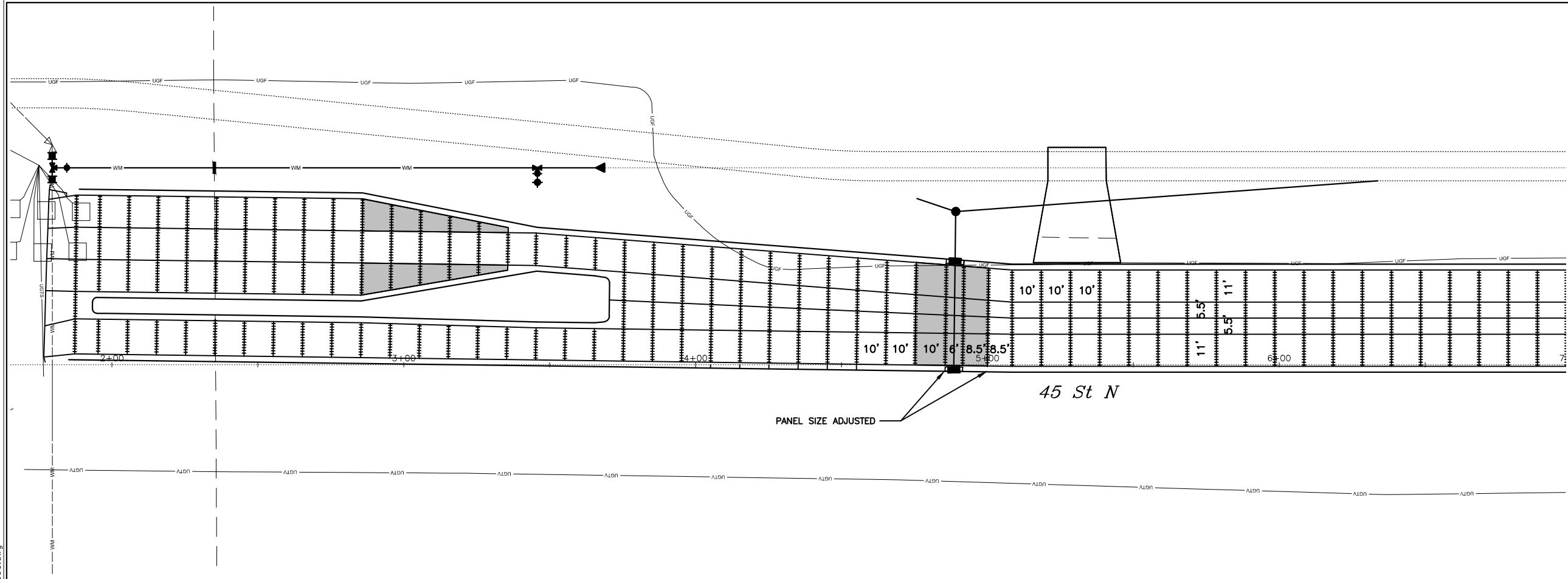
**UPDATE**

**UPDATE**

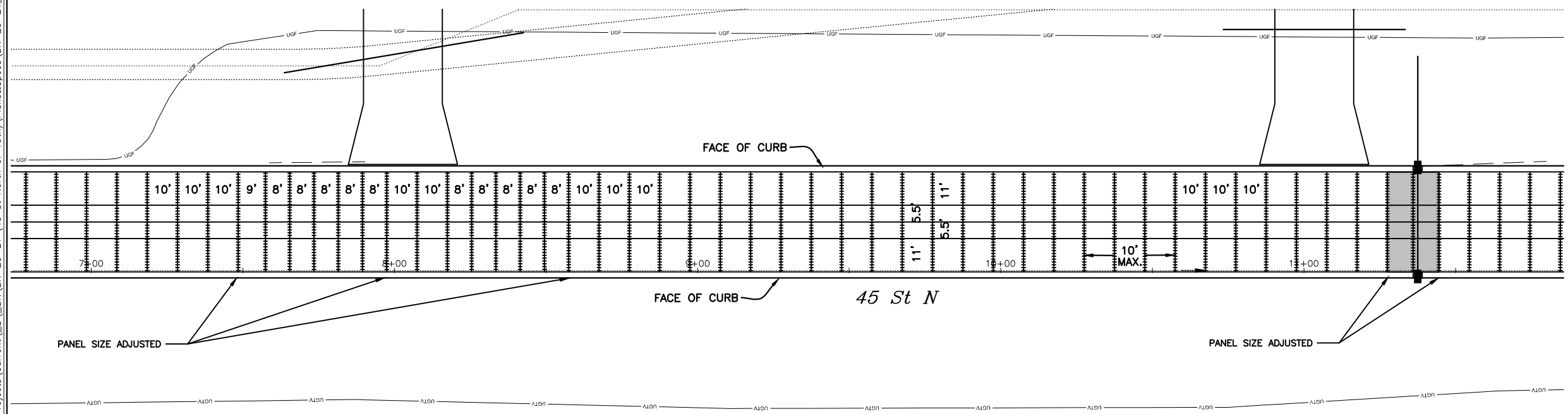
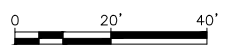
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01/23

01/23/24 06:23:31AM T:\Engineering\Projects\Current\B\BN\BN-23-E1 (45 St North of 19th)\Plans&Specs\BN-23-E1\_090.dwg




- NOTES:**
1. CURB & GUTTER SHALL BE POURED SEPARATE FROM ADJACENT CONCRETE PAVEMENT.
  2. MANHOLE CASTINGS SHALL BE INSTALLED WITH PAVING OPERATION OR INSTALLED WITH EACH ADJOINING FULL CONCRETE PANEL. MANHOLE ISOLATION OR BOX OUTS WILL NOT BE ALLOWED.



LEGEND	
EXISTING JOINT	---
DOWELED JOINT	=====
CONSTRUCTION JOINT	---
PAVEMENT REINFORCEMENT	XXXXXX

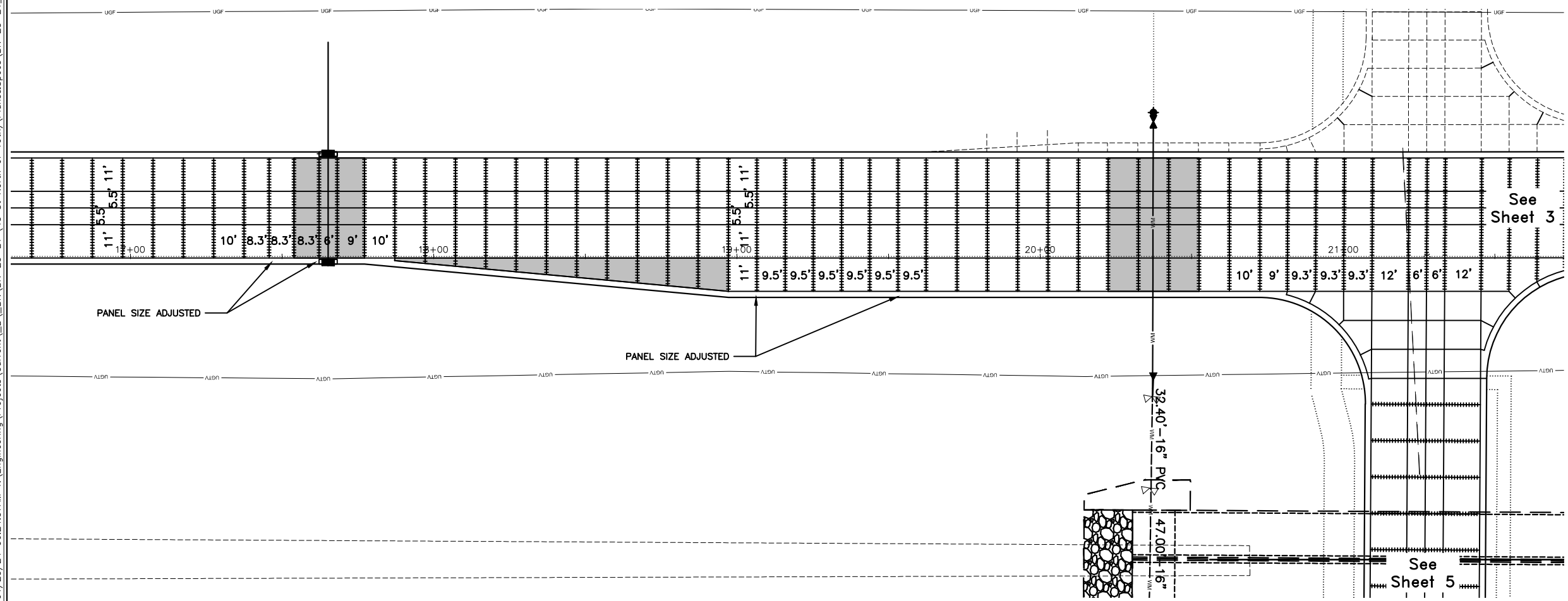
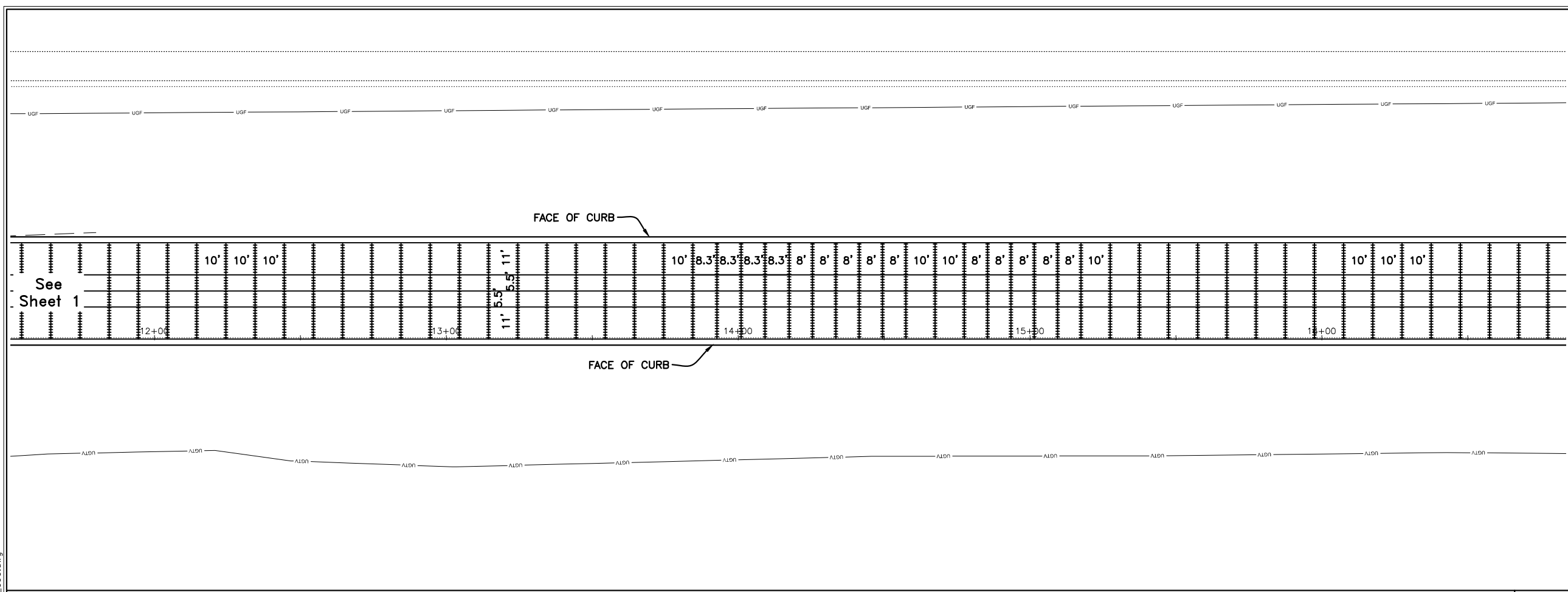
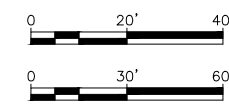
ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①

Jointing & Reinforcement		
New Paving and Utility Construction		
Improvement District <b>BN-23-E1</b>		
DESIGN BY: JJE	CHECKED BY: CB1	
DRAWN BY: JJE	ORIG DATE: PlanDate	
	SECTION NO.	SHEET NO.
	<b>090</b>	<b>1</b>

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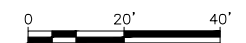
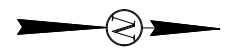
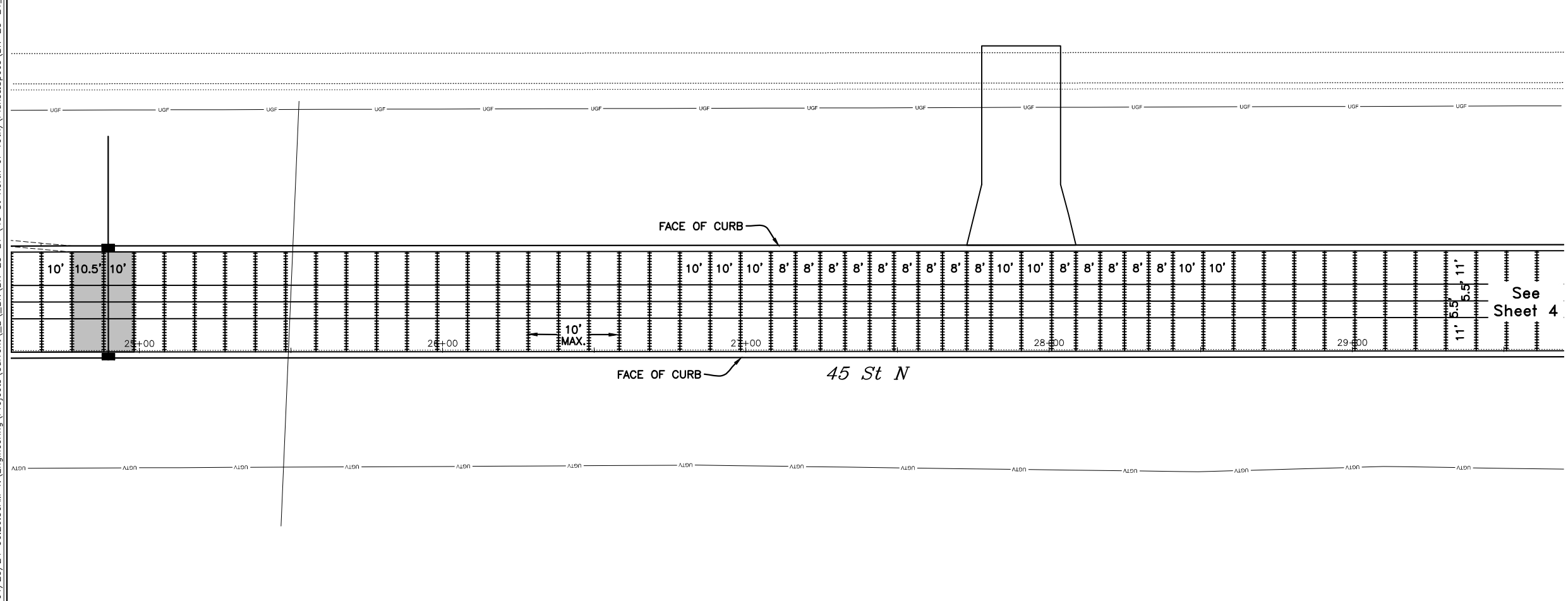
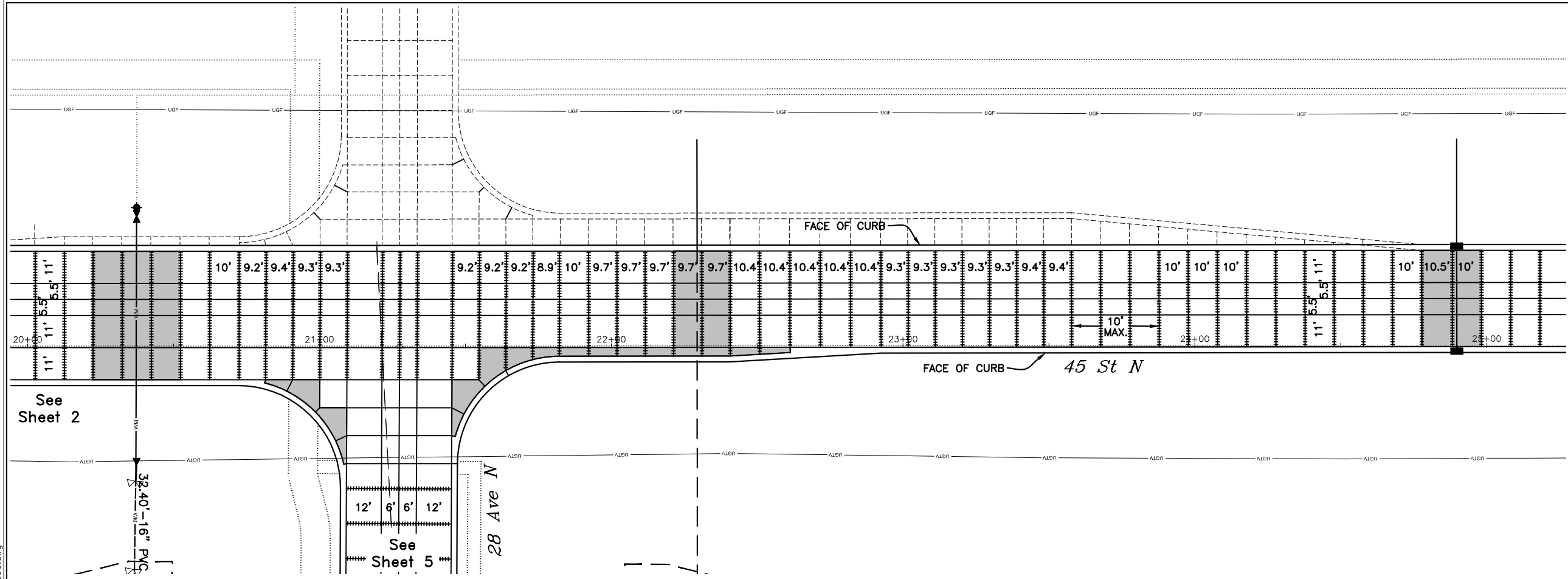


LEGEND	
EXISTING JOINT	---
DOWELED JOINT	
CONSTRUCTION JOINT	---
PAVEMENT REINFORCEMENT	■

ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①

Jointing & Reinforcement	
New Paving and Utility Construction	
Improvement District <b>BN-23-E1</b>	
DESIGN BY: JJE	CHECKED BY: CB1
DRAWN BY: JJE	ORIG DATE: PlanDate
<b>THE CITY OF Fargo</b> FAR MORE	SECTION NO. <b>090</b>
	SHEET NO. <b>2</b>


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- NOTES:
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LEGEND	
EXISTING JOINT	----
DOWELED JOINT	=====
TIED JOINT	—
PAVEMENT REINFORCEMENT	■

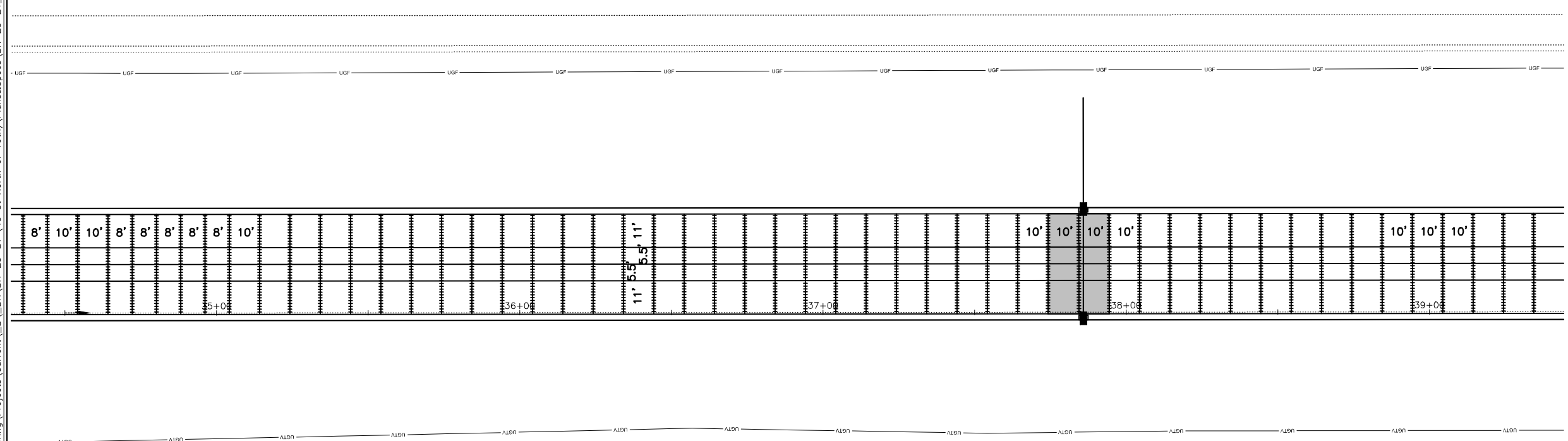
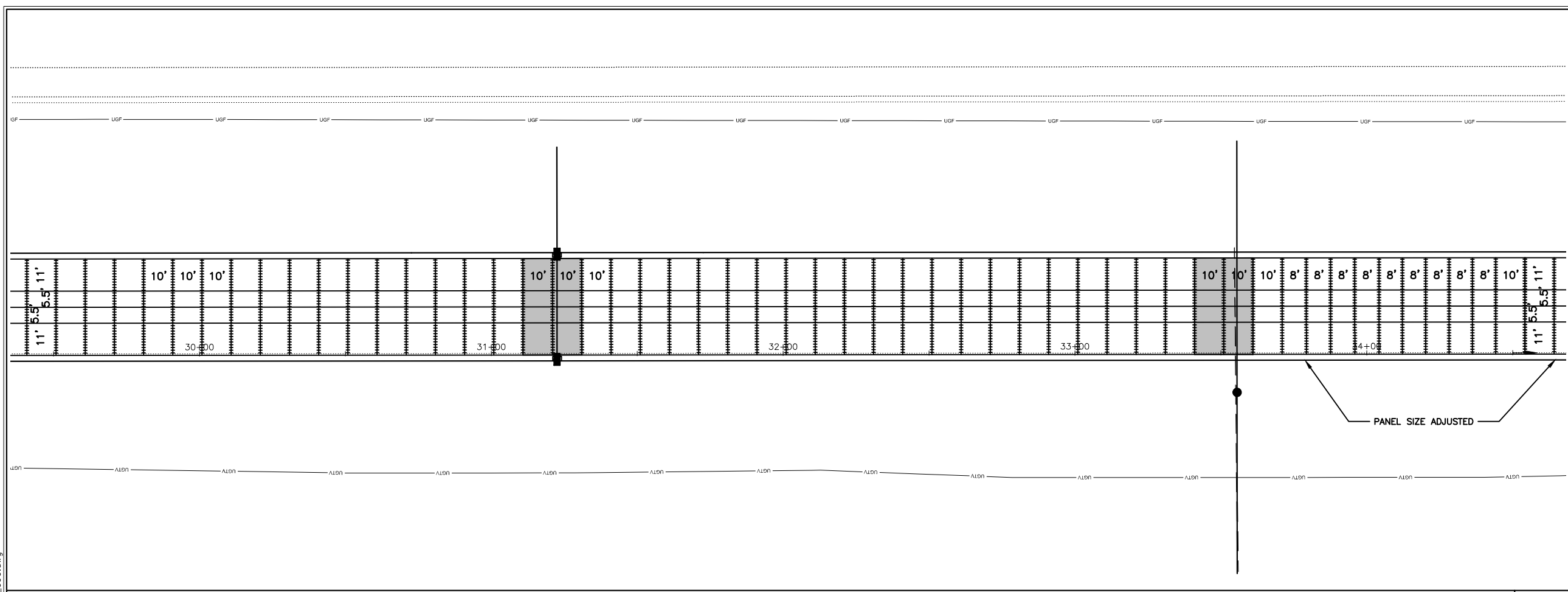
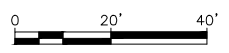
ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①

Jointing & Reinforcement		
New Paving and Utility Construction		
Improvement District <b>BN-23-E1</b>		
DESIGN BY: JJE	CHECKED BY: CB1	
DRAWN BY: JJE	ORIG DATE: PlanDate	
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	090	3

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- NOTES:
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LEGEND	
EXISTING JOINT	----
DOWELED JOINT	
TIED JOINT	—
PAVEMENT REINFORCEMENT	■

ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①

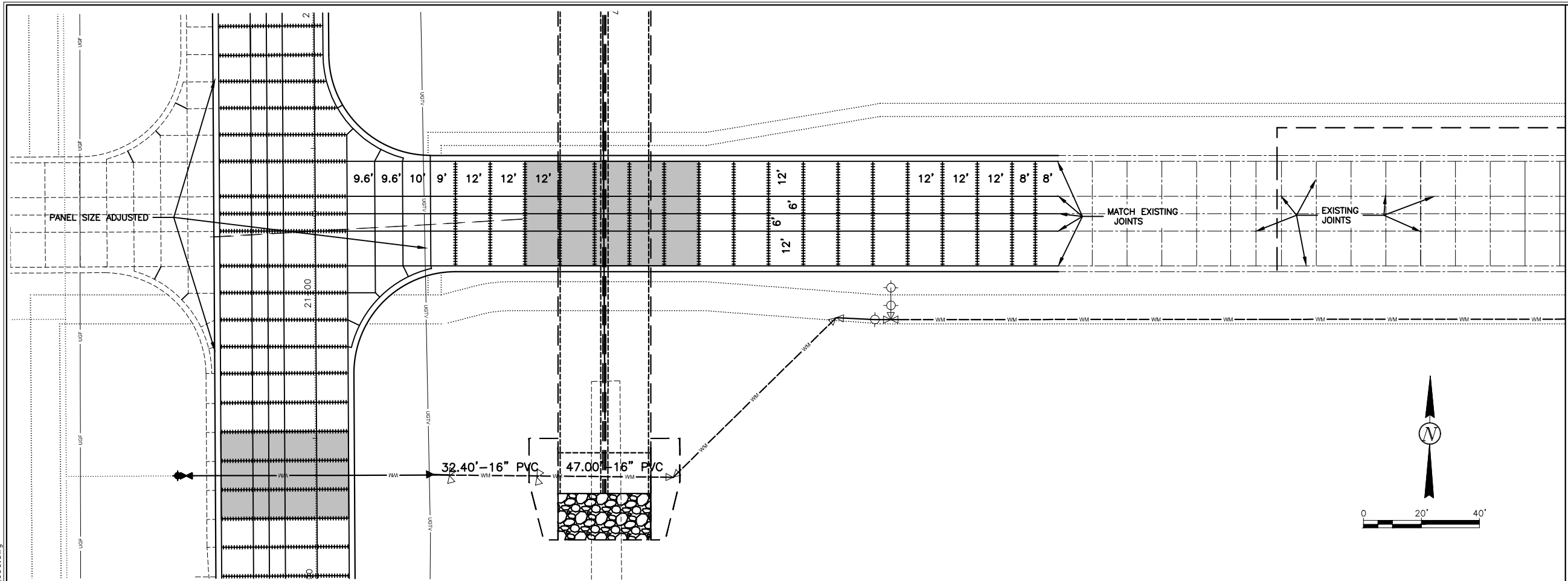
Jointing & Reinforcement	
New Paving and Utility Construction	
Improvement District <b>BN-23-E1</b>	
DESIGN BY: JJE	CHECKED BY: CB1
DRAWN BY: JJE	ORIG DATE: PlanDate

	SECTION NO.	SHEET NO.
	090	4

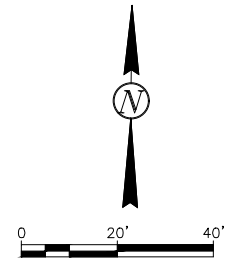




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1. CURB & GUTTER SHALL BE POURED SEPARATE FROM ADJACENT CONCRETE PAVEMENT.
  2. MANHOLE CASTINGS SHALL BE INSTALLED WITH PAVING OPERATION OR INSTALLED WITH EACH ADJOINING FULL CONCRETE PANEL. MANHOLE ISOLATION OR BOX OUTS WILL NOT BE ALLOWED.

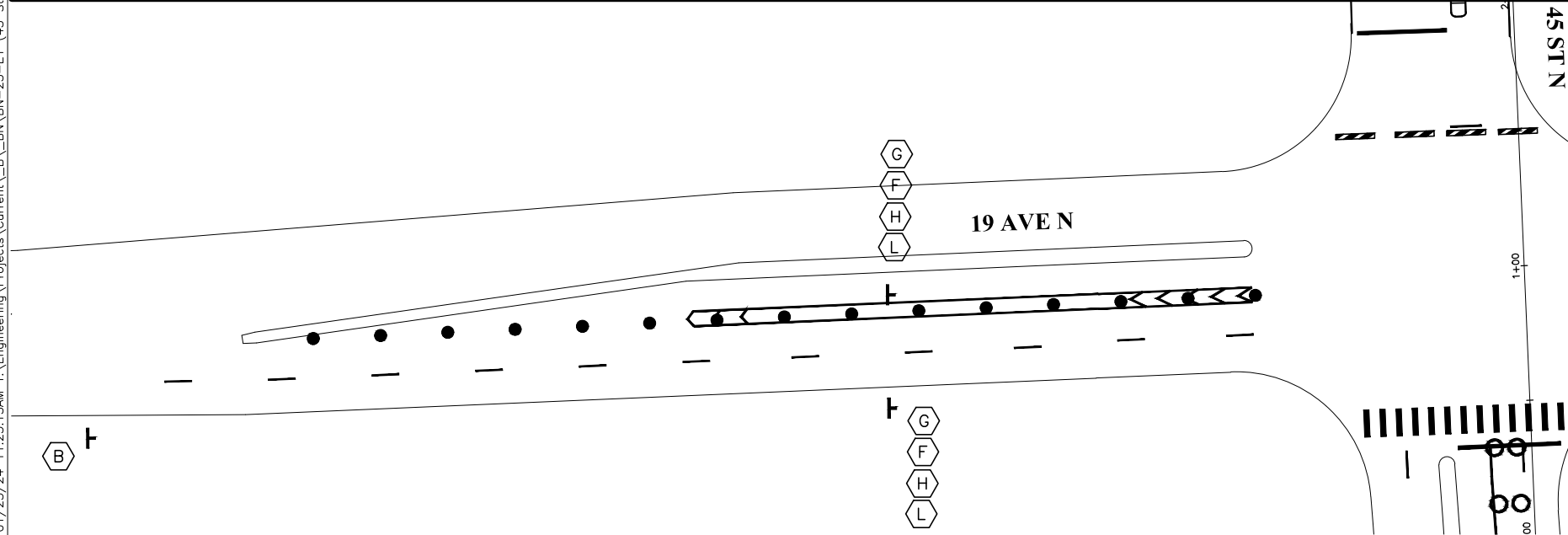
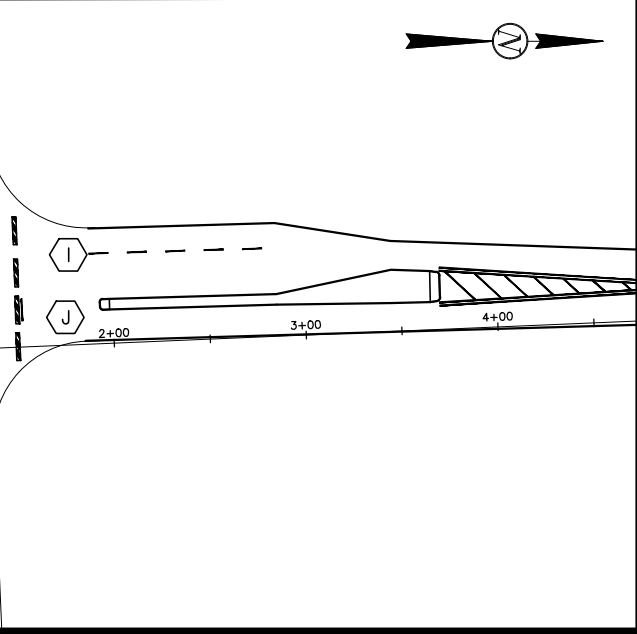
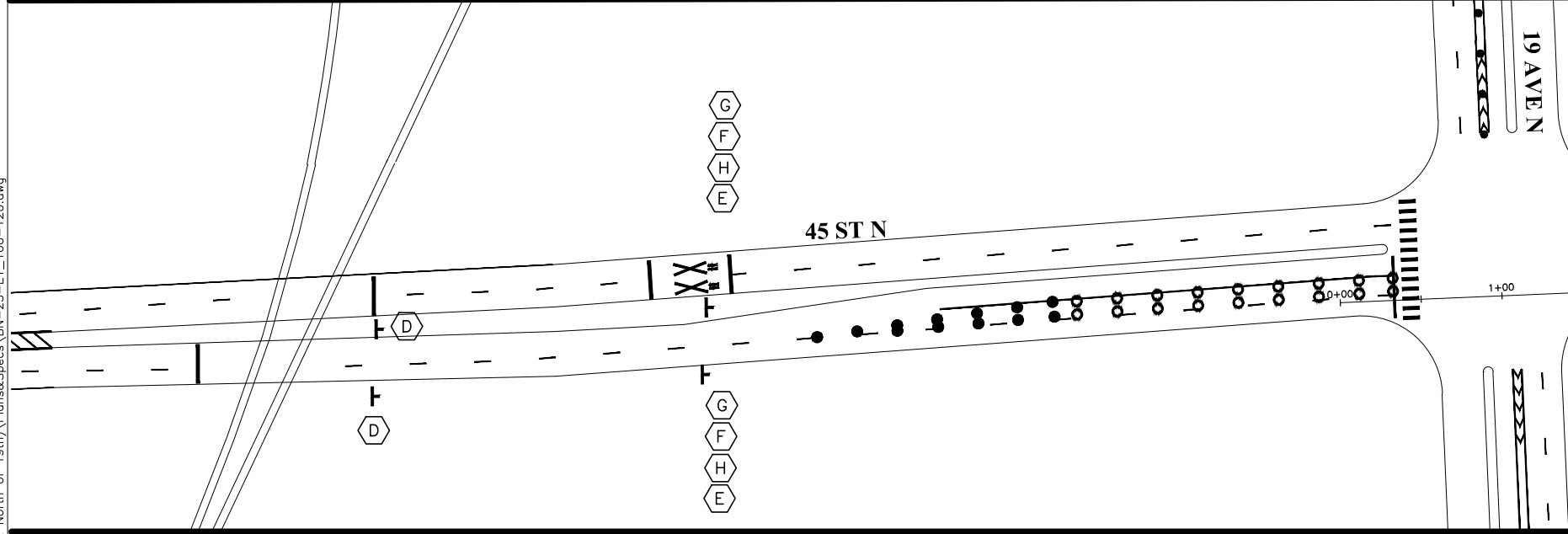
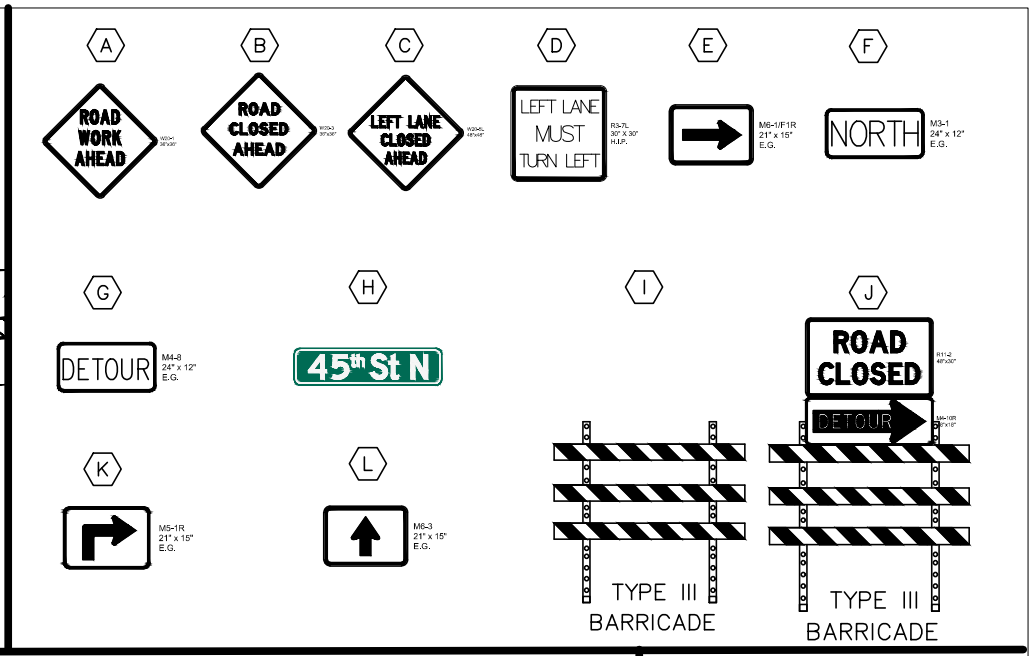
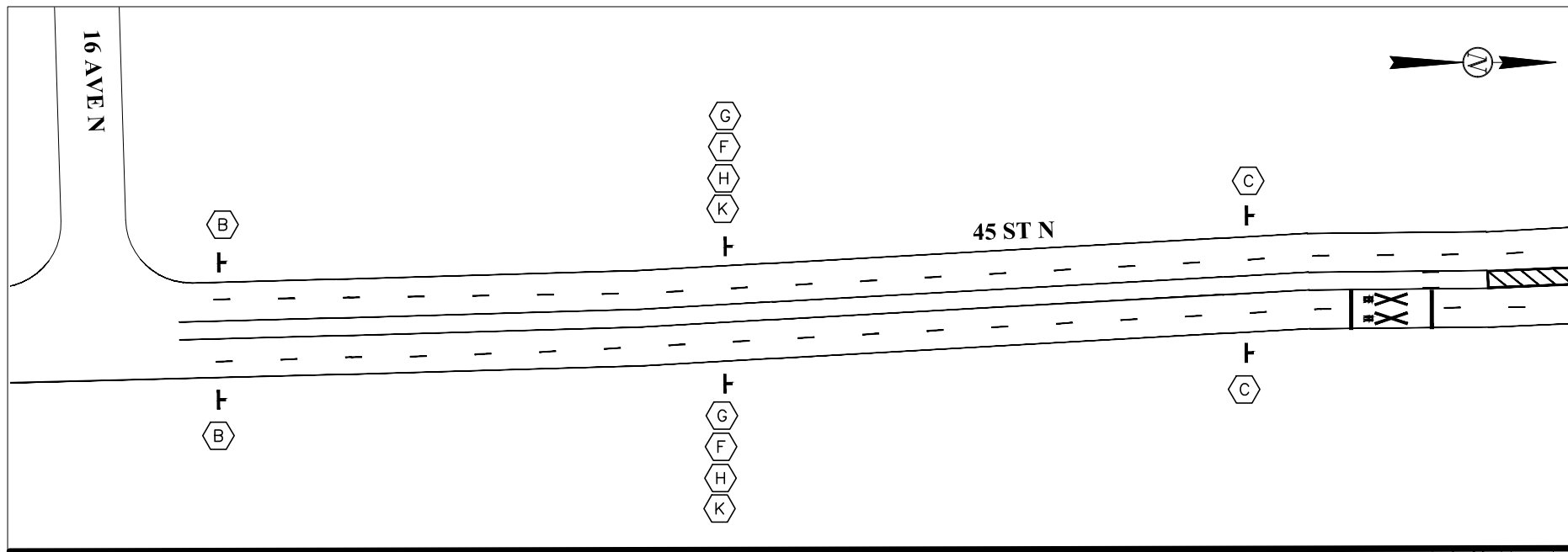


LEGEND	
EXISTING JOINT	----
DOWELED JOINT	=====
CONSTRUCTION JOINT	---
PAVEMENT REINFORCEMENT	■

ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①

Jointing & Reinforcement		
New Paving and Utility Construction		
Improvement District <b>BN-23-E1</b>		
DESIGN BY: JJE	CHECKED BY: CB1	
DRAWN BY: JJE	ORIG DATE: PlanDate	
	SECTION NO.	SHEET NO.
	090	6

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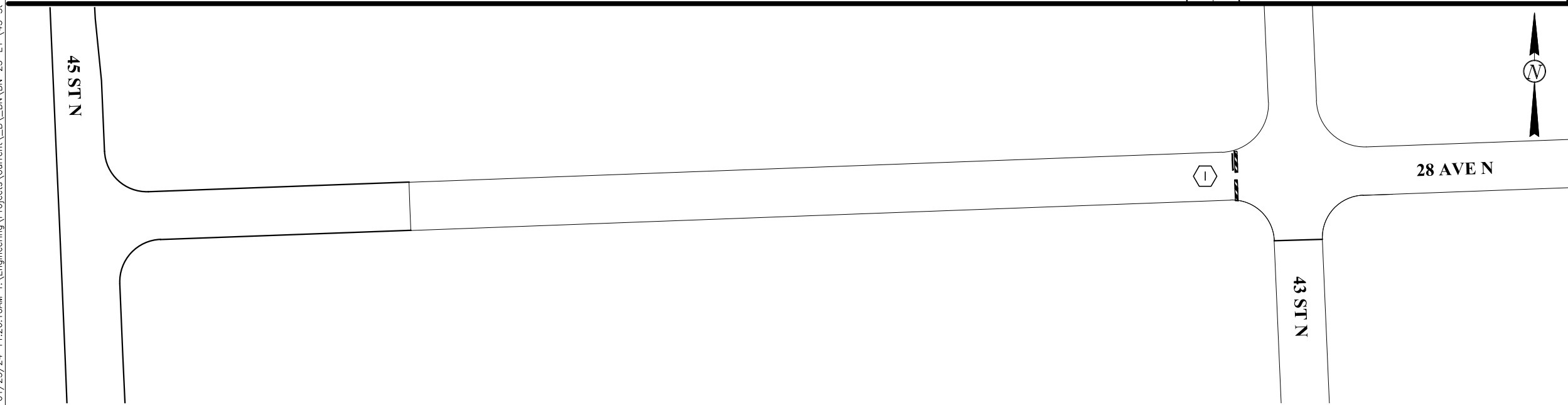
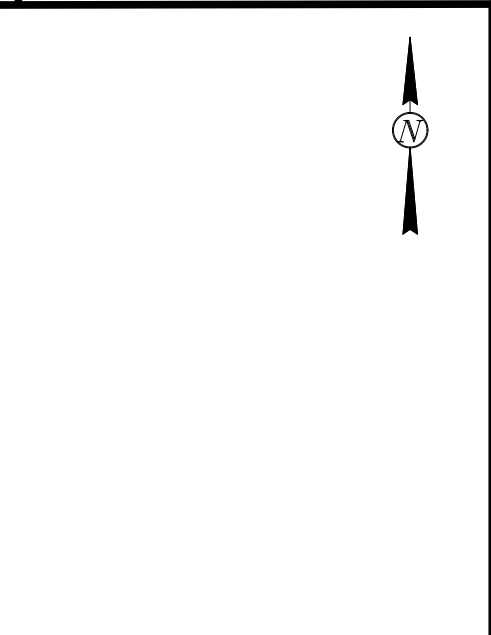
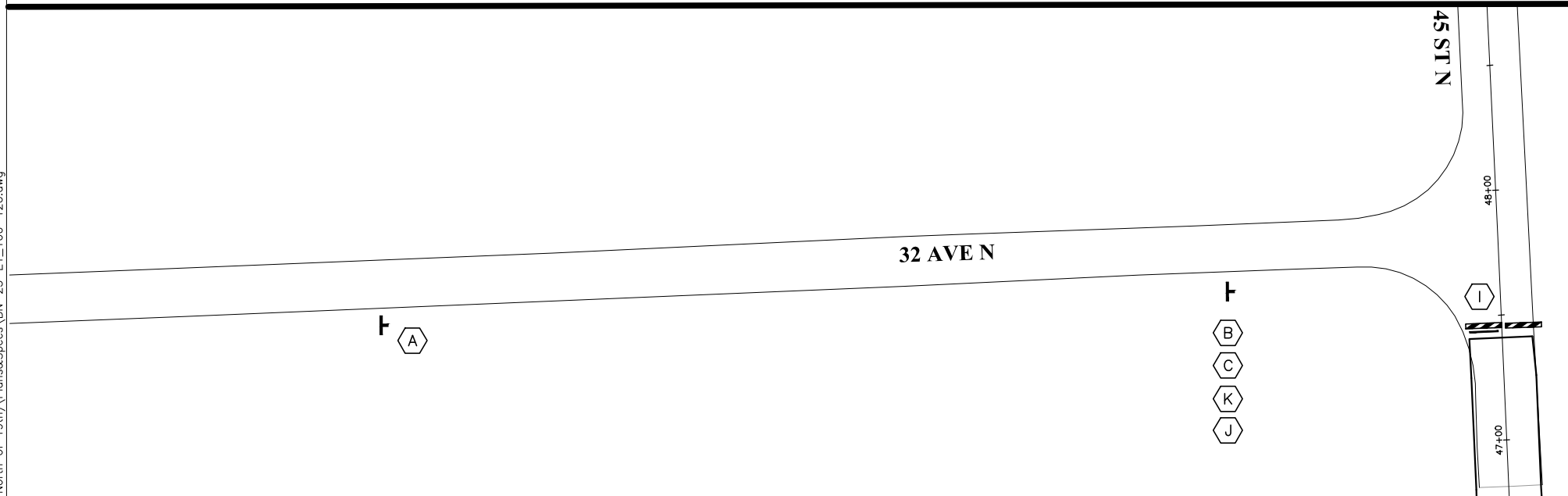
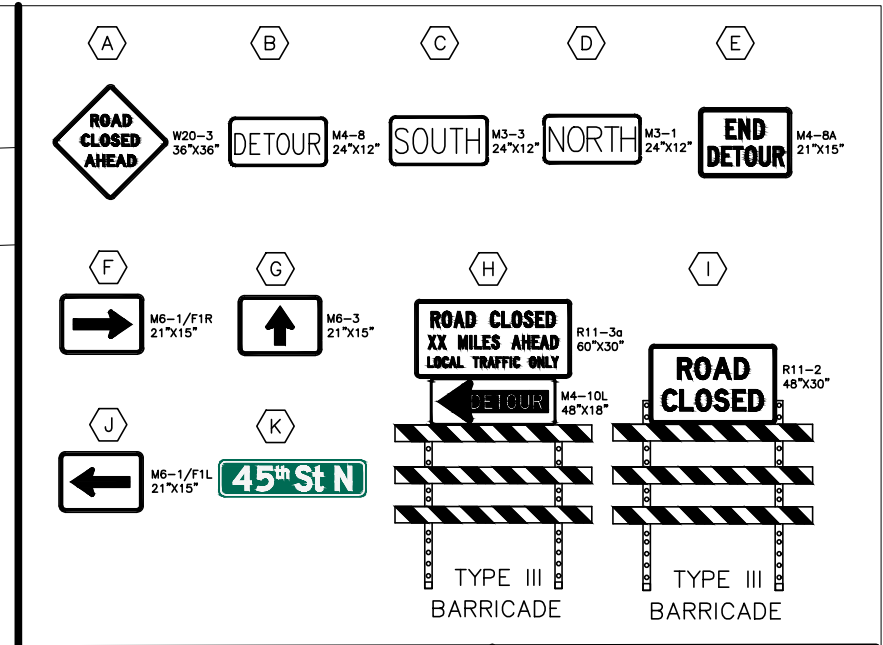
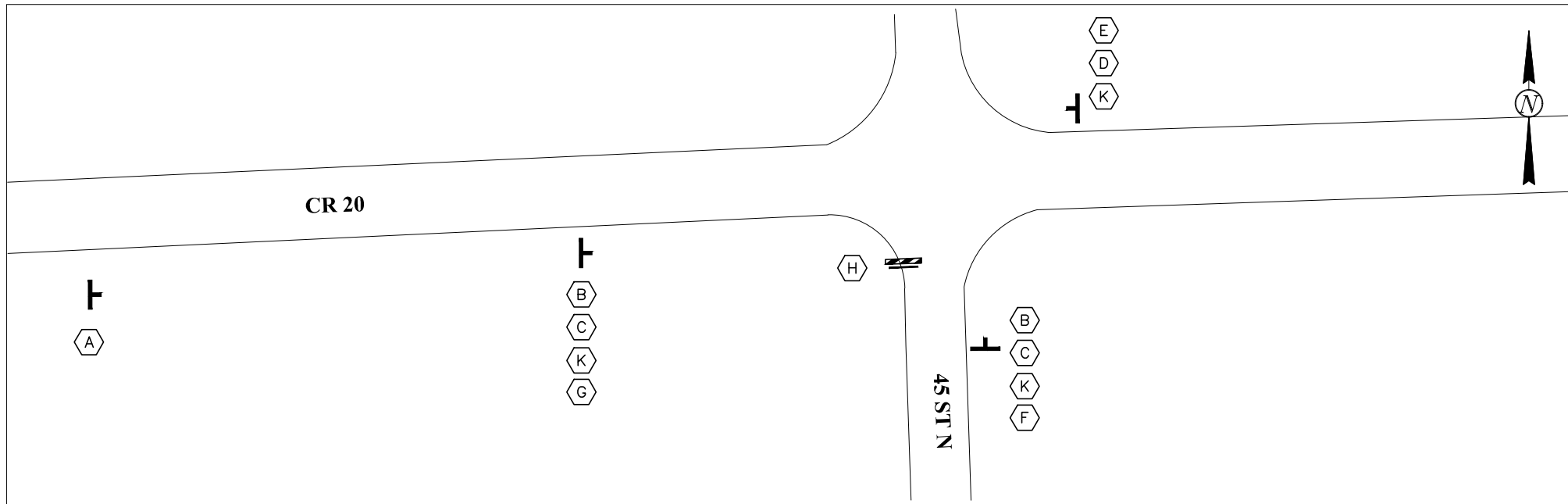


REVISIONS		
③	②	①

SEAL

Traffic Control		
New Paving and Utility Construction		
IMPROVEMENT DISTRICT #: <b>BN-23-E1</b>		
DESIGN BY: JTS	CHECKED BY: CB1	
DRAWN BY: MJB	ORIG DATE: PlanDate	
	SECTION NO.	SHEET NO.
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REVISIONS		
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SEAL

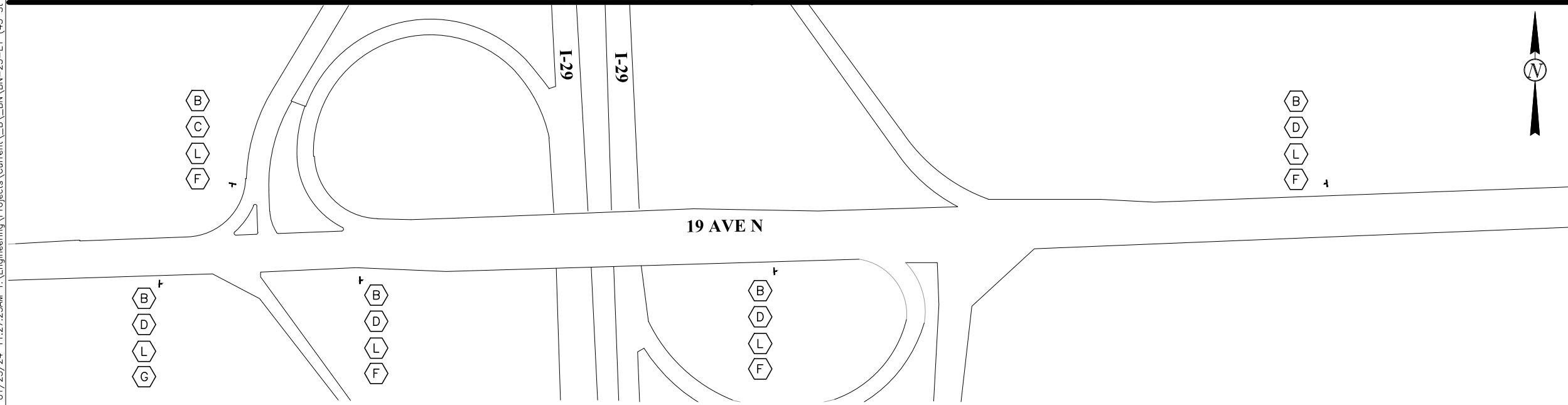
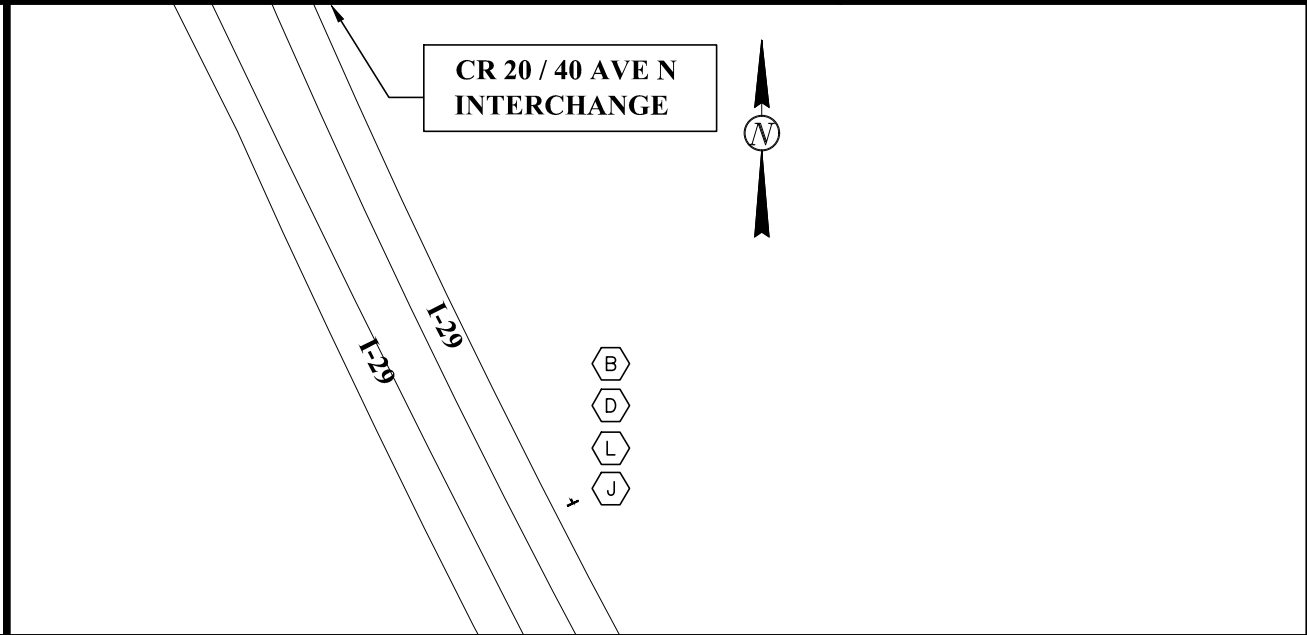
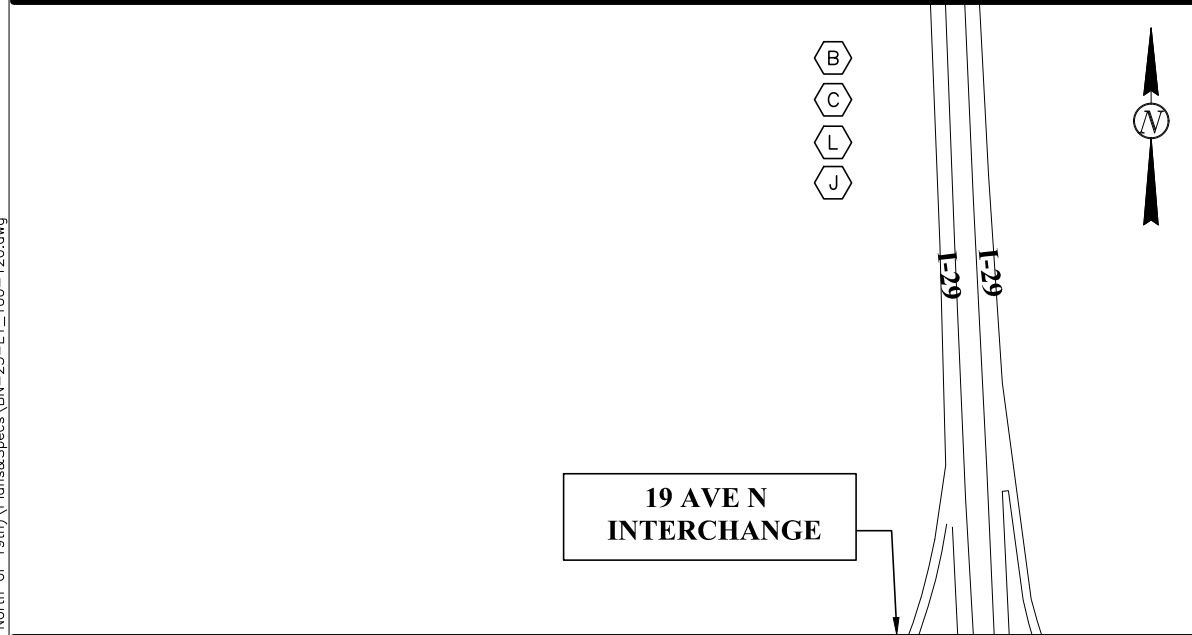
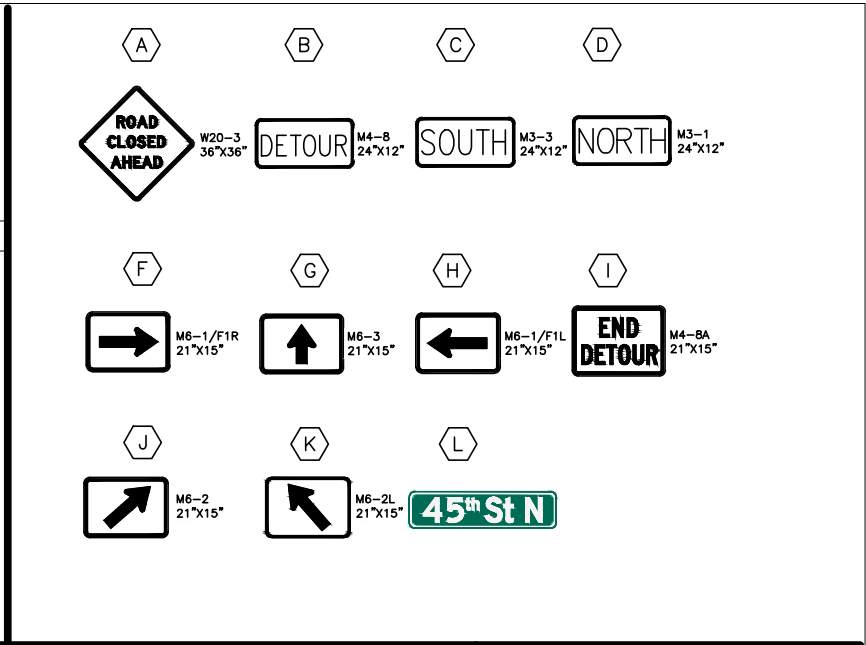
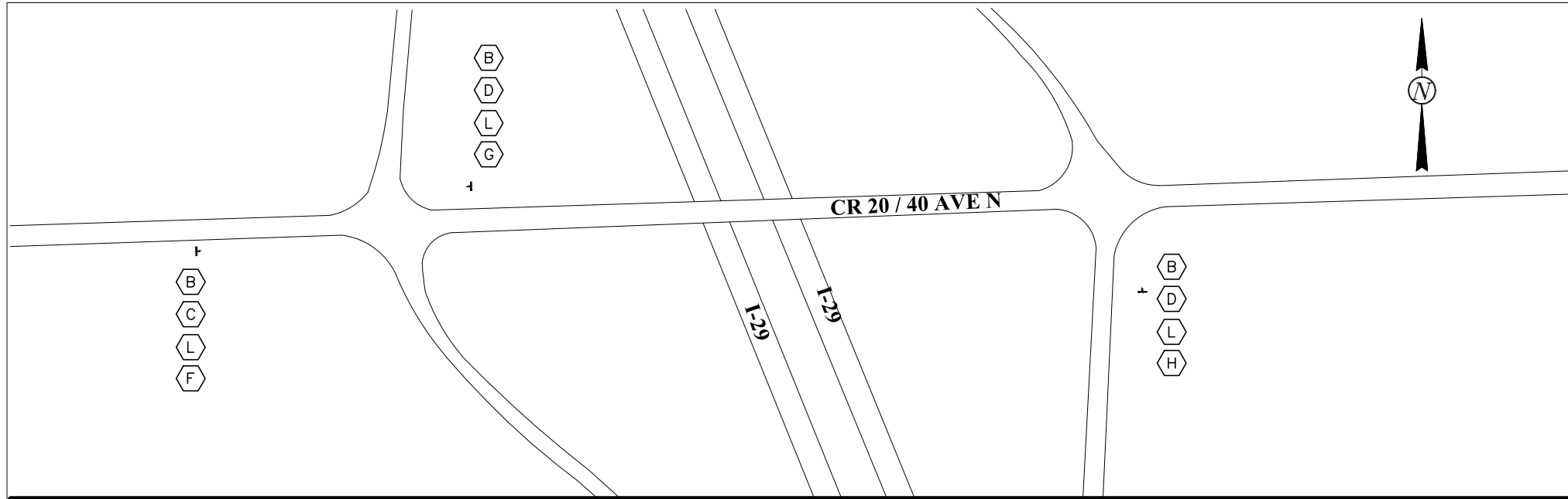
**Traffic Control**  
 New Paving and Utility Construction

IMPROVEMENT DISTRICT #: **BN-23-E1**

DESIGN BY: JTS	CHECKED BY: CB1
DRAWN BY: MJB	ORIG DATE: PlanDate

	SECTION NO.	SHEET NO.
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REVISIONS		
③	②	①

SEAL

**Traffic Control**  
New Paving and Utility Construction

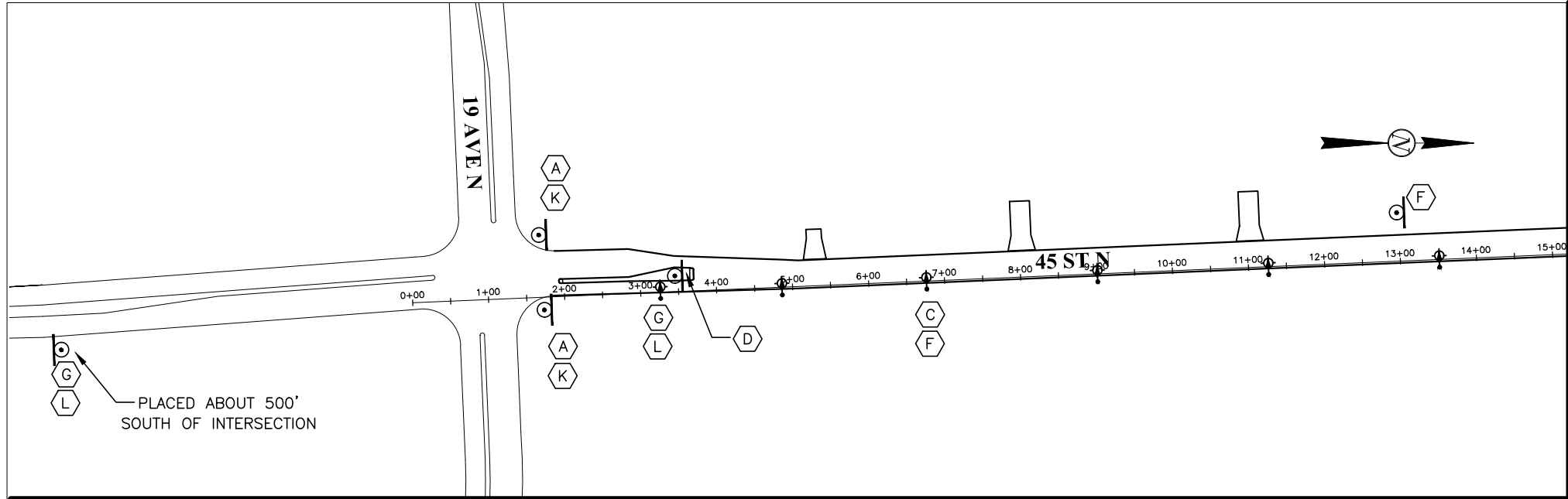
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DESIGN BY: JTS      CHECKED BY: CB1

DRAWN BY: MJB      ORIG DATE: PlanDate

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R1-100  
30" x 30"  
DG3

R2-105  
24" x 30"  
H.L.P.

R2-140  
24" x 30"  
H.L.P.

R4-7  
24" x 30"  
H.L.P.

R5-2  
24" x 24"  
H.L.P.

R3-3a  
24" x 30"  
H.L.P.

R14-10R  
24" x 30"  
H.L.P.

R14-10R  
24" x 30"  
H.L.P.

R14-11FL  
24" x 30"  
H.L.P.

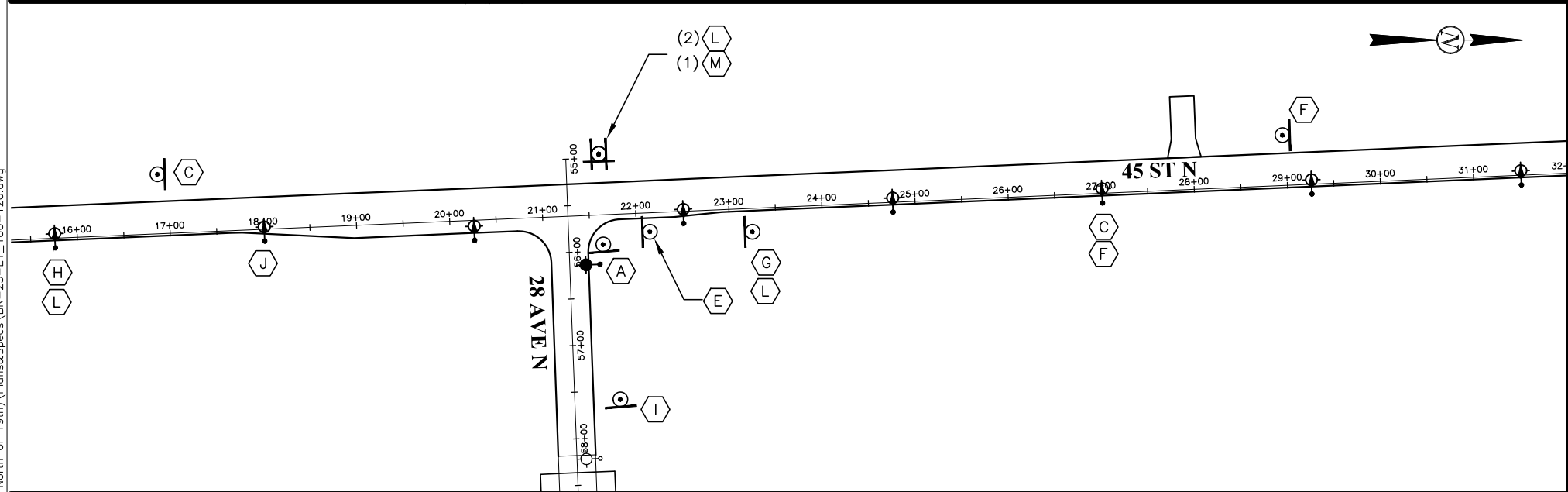
R14-11FR  
24" x 30"  
H.L.P.

R1-4  
18" x 6"  
DG3

W15-6P/F1  
24" x 10"  
H.L.P.

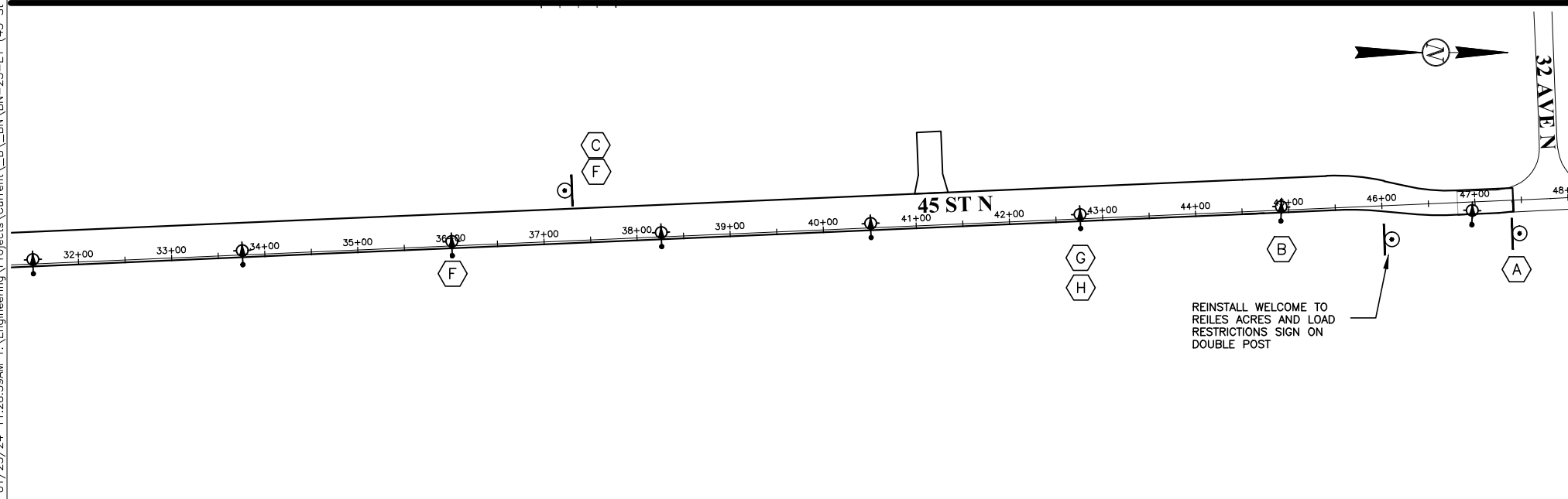
R14-11R  
24" x 30"  
H.L.P.

R14-11R  
24" x 30"  
H.L.P.



BID ITEM	QTY	SF
HIGH INTENSITY PRISMATIC SHEETING	104.7	SF
DIAMOND GRADE SHEETING	30.0	SF
SIGN ASSEMBLY & ANCHOR	15.0	EA
SIGN ASSEMBLY	8.0	EA

CONTRACTOR TO REMOVE EXISTING SIGNS WITHIN PROJECT AND DELIVER TO SIGN & SIGNAL SHOP



REVISIONS		
③	②	①
SEAL		
<b>Signing</b>		
New Paving and Utility Construction		
IMPROVEMENT DISTRICT #: <b>BN-23-E1</b>		
DESIGN BY: JTS	CHECKED BY: CB1	
DRAWN BY: MJB	ORIG DATE: PlanDate	
	SECTION NO.	SHEET NO.
	110	1

01/23/24 11:30:49AM T:\Engineering\Projects\Current\B\BN\BN-23-E1 (45 St North of 19th)\Plans&Specs\BN-23-E1\_100-120.dwg

**SIGN DETAIL**  
1:12

SIGN NUMBER	name
WIDTH x HGHT.	3'-4" x 0'-9"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Overhead
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: Street Name 6-3in.ssi  
Dimensions are in inches.tenths Letter spacings are to start of next letter

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE				
	2	8	t	h	A	v	e		N								D 2000	
	2.5	5.3	4.1	0.5	1.5	1.8	1.5	5.4	4.7	3.5	3	4.1	2.5				35.4	6.3/2.3,6/4.5

**SIGN DETAIL**  
1:12

SIGN NUMBER	name
WIDTH x HGHT.	3'-12" x 0'-9"
BORDER WIDTH	0.5"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: Green
LEGEND/BORDER	TYPE: Reflective COLOR: White/White

SYMBOL	ROT	X	Y	WID	HT

Panel Style: Street Name 6-3in.ssi  
Dimensions are in inches.tenths Letter spacings are to start of next letter

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE					
	4	5	t	h	S	t	r	e	e	t		N						D 2000	
	2.5	5.8	4.1	0.5	1.5	1.8	1.5	4.4	3.1	2.8	4.1	3.8	2.4	3	4.1	2.5		42.9	6.3/2.3,6/4.5

**SIGN DETAIL**  
1:12

SIGN NUMBER	name
WIDTH x HGHT.	2'-0" x 2'-6"
BORDER WIDTH	0.63"
CORNER RADIUS	1.13"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: White
LEGEND/BORDER	TYPE: Reflective COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT

Panel Style: regulatory.ssi  
Dimensions are in inches.tenths Letter spacings are to start of next letter

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE						
	W	E	I	G	H	T													D 2000	
	5.2	3.1	2.4	1.1	2.7	2.5	1.9	5.2											13.7	3
	L	I	M	I	T															D 2000
	7.3	2.3	1.2	3.1	0.9	1.9	7.3												9.4	3
	2	4																		D 2000
	9.8	2.4	2.3	9.5															4.6	3
	T	O	N	S																D 2000
	7.2	2.3	2.8	2.5	2	7.2													9.6	3

**SIGN DETAIL**  
1:12

SIGN NUMBER	name
WIDTH x HGHT.	2'-0" x 2'-6"
BORDER WIDTH	0.63"
CORNER RADIUS	1.13"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective COLOR: White
LEGEND/BORDER	TYPE: Reflective COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT

Panel Style: regulatory.ssi  
Dimensions are in inches.tenths Letter spacings are to start of next letter

LETTER POSITIONS (X)													LENGTH	SERIES/SIZE						
	A	X	L	E																D 2000
	7.3	2.8	2.5	2.3	1.9	7.2													9.5	3
	W	E	I	G	H	T														D 2000
	5.2	3.1	2.4	1.1	2.7	2.5	1.9	5.1											13.7	3
	L	I	M	I	T															D 2000
	7.3	2.3	1.2	3.1	0.9	1.9	7.3												9.4	3
	6		T	O	N	S														D 2000
	4.7	2	3	2.3	2.8	2.5	2	4.7											14.7	3

REVISIONS		
③	②	①

SEAL

**Signing**

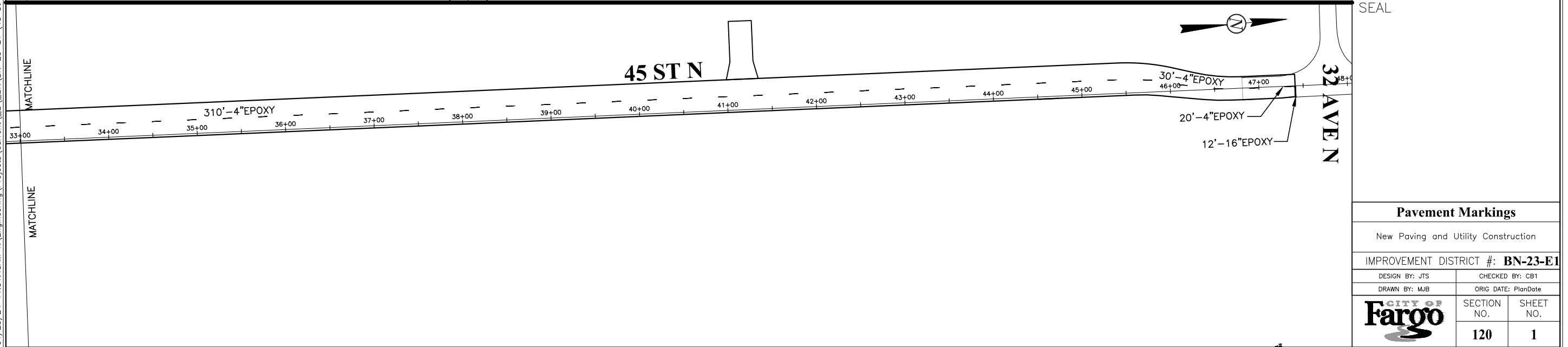
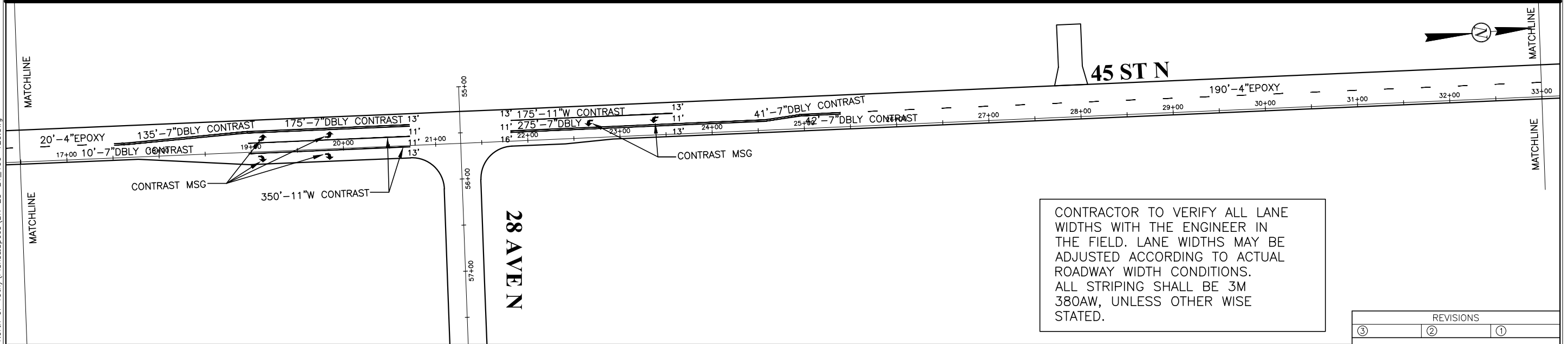
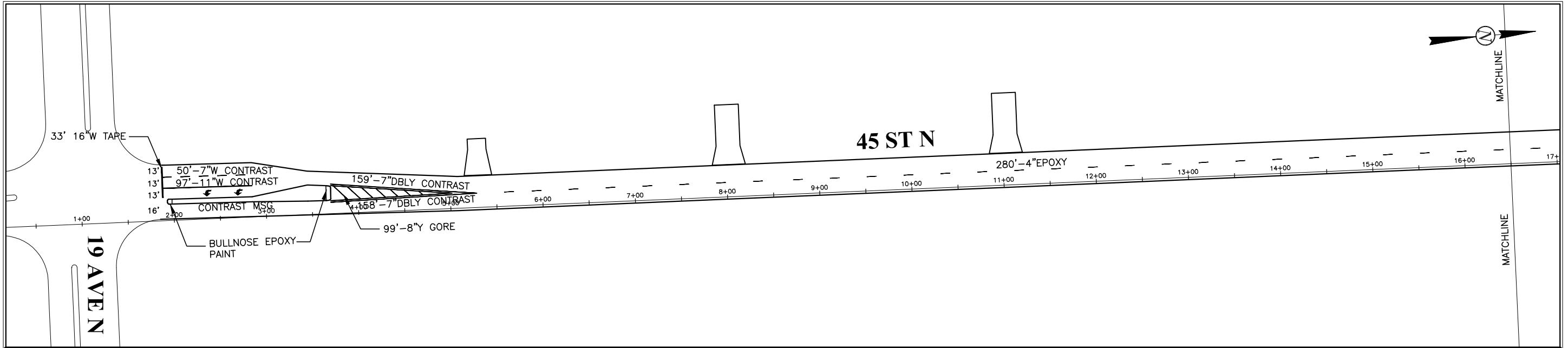
New Paving and Utility Construction

IMPROVEMENT DISTRICT #: **BN-23-E1**

DESIGN BY: JTS	CHECKED BY: CB1
DRAWN BY: MJB	ORIG DATE: PlanDate

	SECTION NO.	SHEET NO.
	110	2

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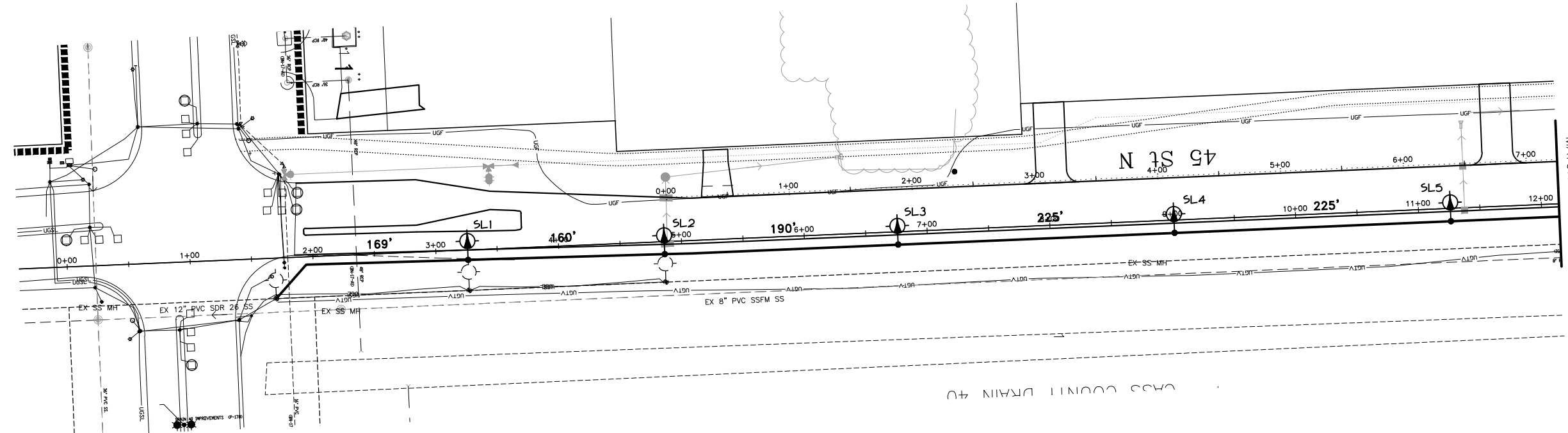
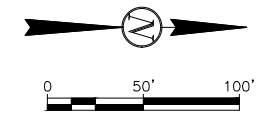
CONTRACTOR TO VERIFY ALL LANE WIDTHS WITH THE ENGINEER IN THE FIELD. LANE WIDTHS MAY BE ADJUSTED ACCORDING TO ACTUAL ROADWAY WIDTH CONDITIONS. ALL STRIPING SHALL BE 3M 380AW, UNLESS OTHERWISE STATED.

REVISIONS		
③	②	①

SEAL

<b>Pavement Markings</b>			
New Paving and Utility Construction			
IMPROVEMENT DISTRICT #: <b>BN-23-E1</b>			
DESIGN BY: JTS	CHECKED BY: CB1		
DRAWN BY: MJB	ORIG DATE: PlanDate		
<b>CITY OF Fargo</b>	SECTION NO.	SHEET NO.	
	120	1	





STREET LIGHT BASES SHALL BE 4' FROM BACK OF CURB TO CENTER OF BASE UNLESS OTHERWISE NOTED ON PLAN. LOCATION CAN VARY BASED ON EXISTING UNDERGROUND UTILITIES. COORDINATE WITH PROJECT ENGINEER AFTER LOCATES HAVE BEEN MARKED.

- L7-A2 TYPE "A" LED LUM. ON TYPE "A" STD. WITH LUMINAIRE/CIRCUIT NUMBER.
- L22-A3 TYPE "B" LED LUM. ON TYPE "B" STD. WITH LUMINAIRE/CIRCUIT NUMBER.
- L18-B3 TYPE "C" LED LUM. ON TYPE "C" STD. WITH LUMINAIRE/CIRCUIT NUMBER.
- EXISTING STREET LIGHT
- 1.5" INNERDUCT WITH CONDUCTOR
- 1.5" INNERDUCT WITH TRACE WIRE
- EXISTING CONDUCTOR
- EXISTING 1.5" INNERDUCT
- PULL BOX
- NEW FEED POINT
- EXISTING FEED POINT

ADDENDUM & CONSTRUCTION REVISIONS

③	②	①
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SEAL

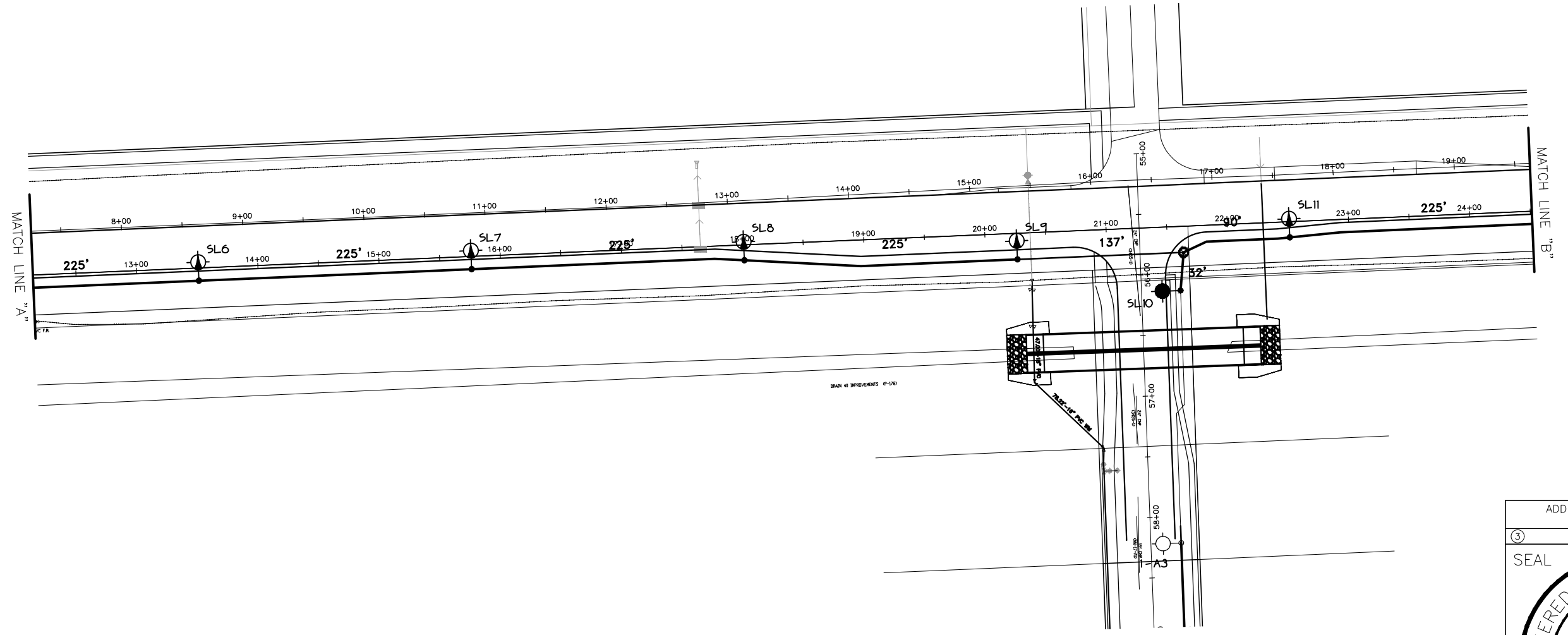
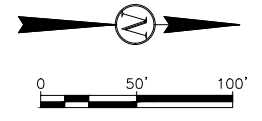
**45th St - Street Lighting**

New Paving and Utility Construction

Improvement District **BN-23-E1**

DESIGN BY: DJH	CHECKED BY: JMG
DRAWN BY: DJH	ORIG DATE: PlanDate
THE CITY OF FARGO FAR MORE	SECTION NO. SHEET NO.
	140 1

01/23/24 08:37:51AM T:\Engineering\Projects\Current\B\BN\BN-23-E1 (45 St. North of 19th)\Plans&Specs\BN-23-E1\_140\_STREET LIGHTING.dwg



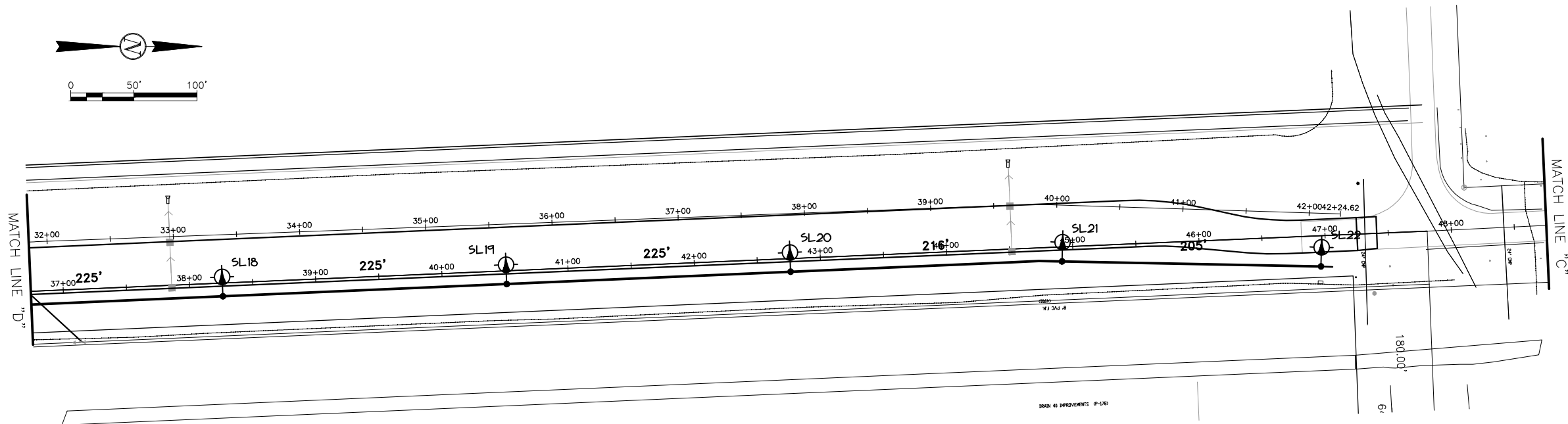
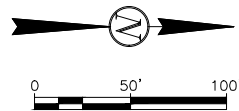
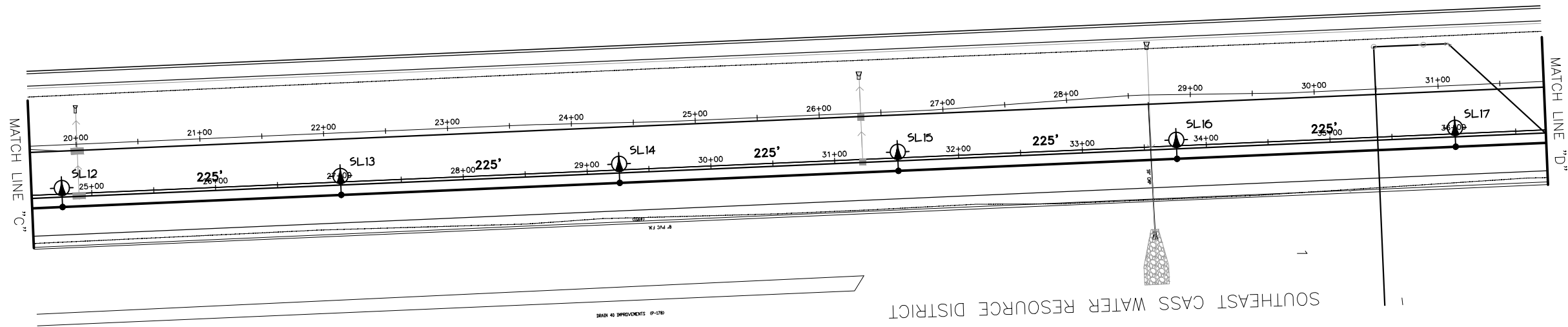
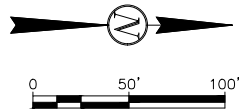
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ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①

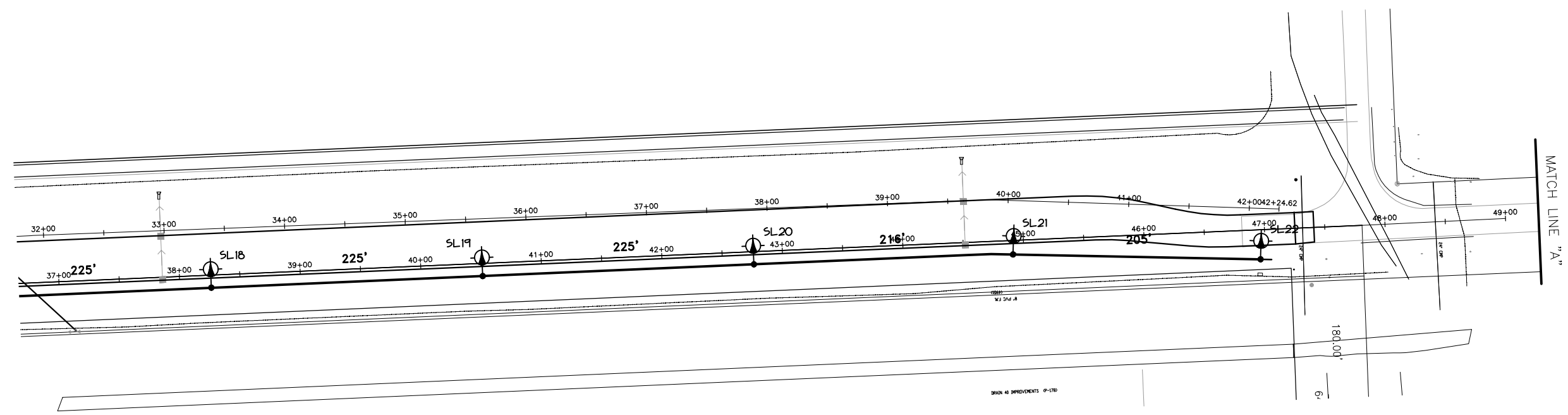
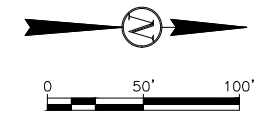


<b>45th St - Street Lighting</b>		
New Paving and Utility Construction		
Improvement District <b>BN-23-E1</b>		
DESIGN BY: DJH	CHECKED BY: JMG	
DRAWN BY: DJH	ORIG DATE: PlanDate	
<b>THE CITY OF</b> <b>Fargo</b> FAR MORE	SECTION NO.	SHEET NO.
	<b>140</b>	<b>2</b>

01/23/24 08:43:23AM T:\Engineering\Projects\Current\B\BN\BN-23-E1 (45 St North of 19th)\Plans&Specs\BN-23-E1\_140\_STREET\_LIGHTING.dwg



ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①
SEAL		
<b>45th St - Street Lighting</b>		
New Paving and Utility Construction		
Improvement District <b>BN-23-E1</b>		
DESIGN BY: DJH	CHECKED BY: JMG	
DRAWN BY: DJH	ORIG DATE: PlanDate	
		SECTION NO.
		SHEET NO.
		140      3



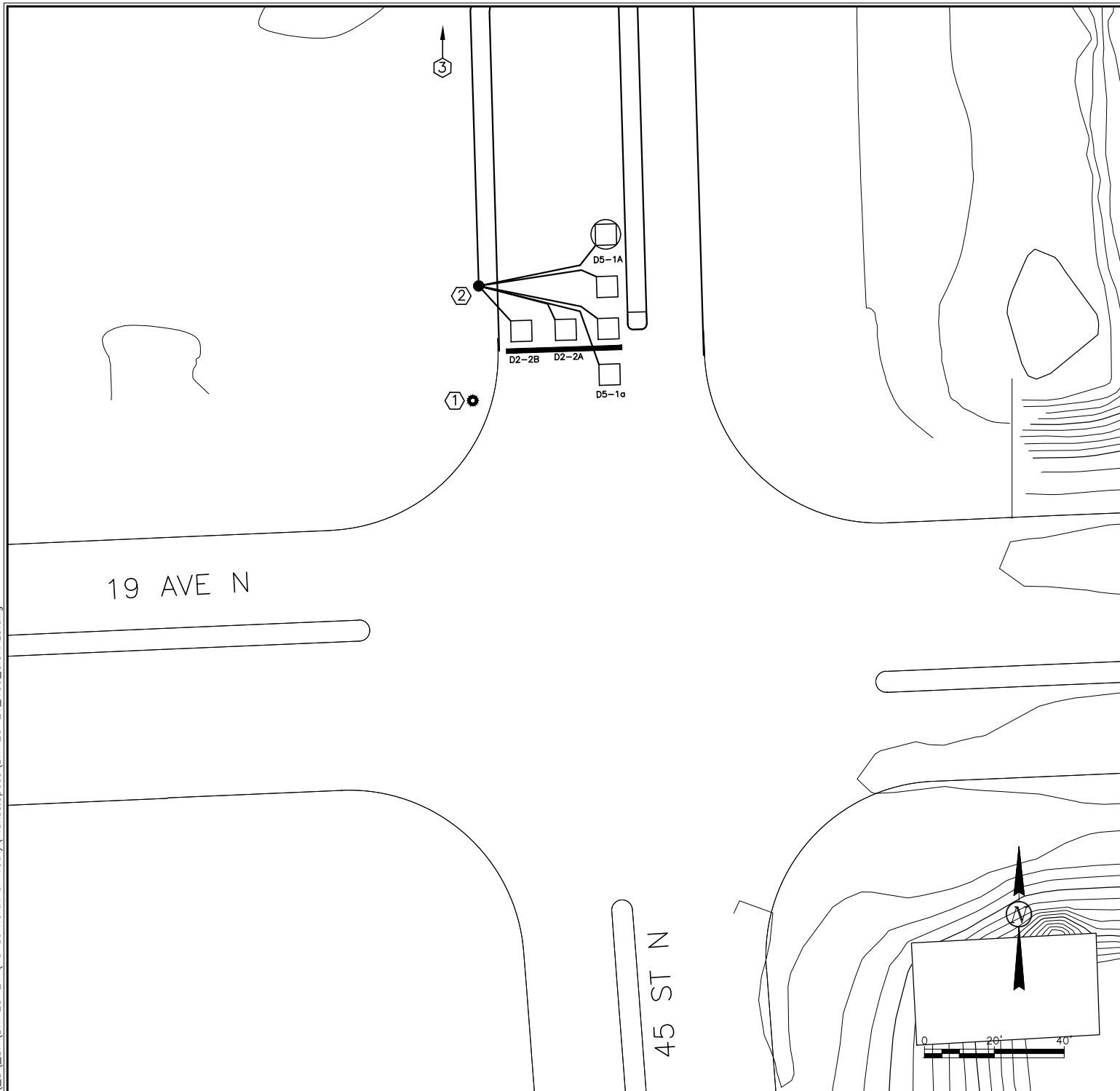
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ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①

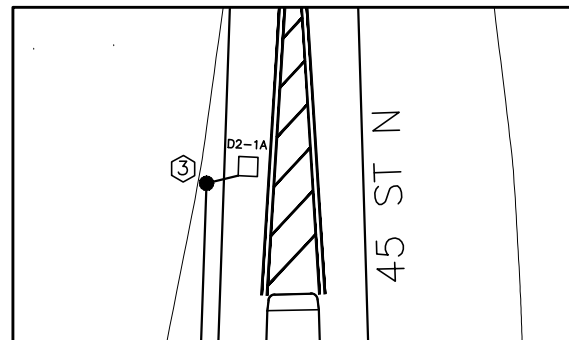
SEAL

<b>45th St - Street Lighting</b>		
New Paving and Utility Construction		
Improvement District <b>BN-23-E1</b>		
DESIGN BY: DJH	CHECKED BY: JMG	
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<b>Fargo</b> THE CITY OF FAR MORE	SECTION NO.	SHEET NO.
	140	4

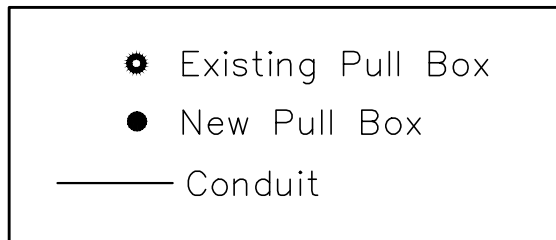
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- ① EXISTING PULL BOX, REMOVE AND RELOCATE FRAME AND COVER TO PB #2.
- ② FURNISH AND INSTALL NEW 2" PVC CONDUIT TO PB #3 (APPROX 200'). INSTALL 6-6' X 6' LOOPS(D5-1a/D5-1A/D2-2A/D2-2B)
- ③ FURNISH AND INSTALL NEW PULL BOX. INSTALL 1-6' X 6' LOOP(D2-1A)

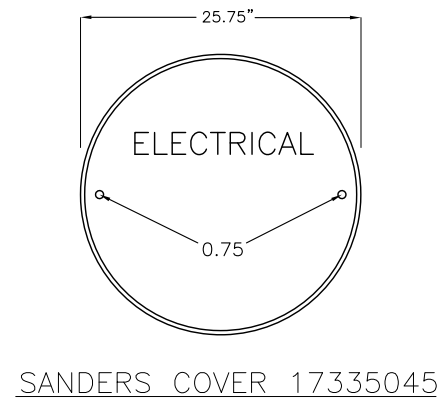
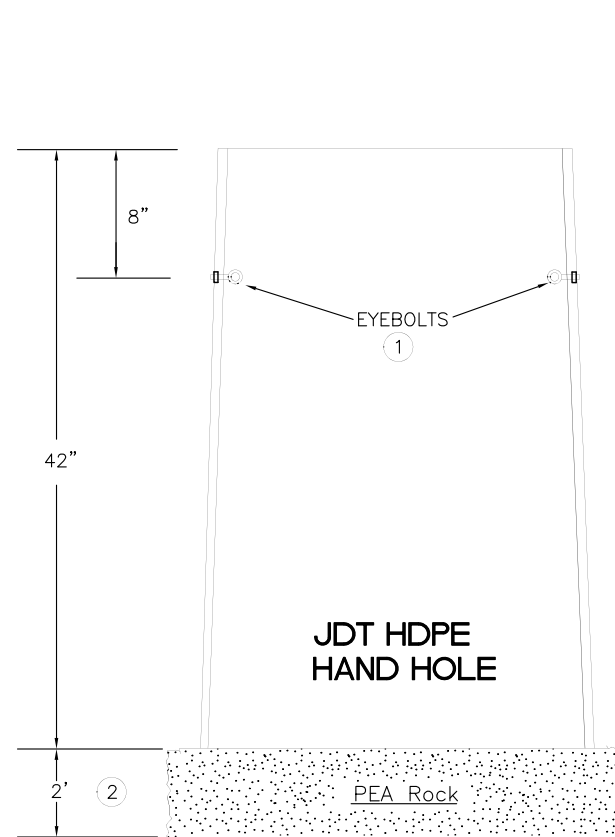


SOUTH BOUND LOOPS

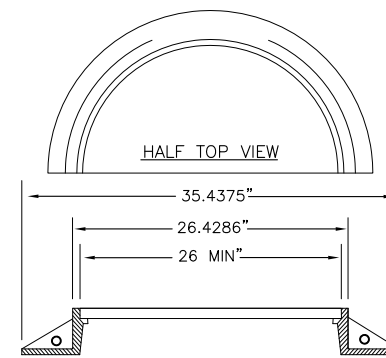


REVISIONS		
③	②	①
SEAL		
BN-23-E1 150_SIGNALS - 150_01-1 19 Ave N Layout New Paving and Utility Construction		
IMPROVEMENT DISTRICT #: <b>BN-23-E1</b>		
DESIGN BY: JTS	CHECKED BY: CB1	
DRAWN BY: MJB	ORIG DATE: PlanDate	
	SECTION NO.	SHEET NO.
	150	---

# PULL BOX METAL FRAME AND COVER



SANDERS COVER 17335045



NEENAH FOUNDRY R-1733  
or EAST JORDEN V1600-3

### INSTALLATION NOTES:

1. TWO STAINLESS/GALVINIZED TYPE 2 SHOULDER EYEBOLTS, 3/8" DIA. X 1 1/4" SHANK LENGTH, WITH HEX. NUTS AT 180° APART (FOR LIFTING HANDHOLES AND SUPPORTING ELECTRICAL CABLES)
2. PLACE COMPACTED 2'-0" AGGREGATE DRAIN BED (PEA ROCK) BELOW BOTTOM OF HANDHOLE, TO THE SATISFACTION OF THE ENGINEER.
3. CONDUIT HOLES DIAMETER LOCATED IN THE BARREL SECTION ARE SIZED NO LARGER THAN THE CONDUIT OUTSIDE DIAMETER USED.
4. AFTER HANDHOLE AND CONDUIT INSTALLATION, SEAL ALL INSIDE WALLS WATER TIGHT TO THE SATISFACTION OF THE ENGINEER.
5. ALL CONDUITS SHALL EXTEND A MAXIMUM OF 3" INTO PULL BOX.
6. ALL PULL BOXES AND COVERS SHALL BE A MINIMUM OF 12" FROM BACK OF CURB UNLESS APPROVED BY ENGINEER.

### MATERIAL NOTES:

- ALL CASTINGS ARE GRAY IRON AS PER SPEC. 3321 CLASS 35B.
- ALL PULL BOXES IN CONCRETE SHALL USE: JDT HDPE BOX, NEENAH FOUNDRY R-1733 CASTING AND COVER (OR APPROVE EQUAL).
- ALL COVERS SHALL BE PN: 17335045 FROM SANDERS METAL PRODUCTS AND HAVE "ELECTRIC" ON THEM.

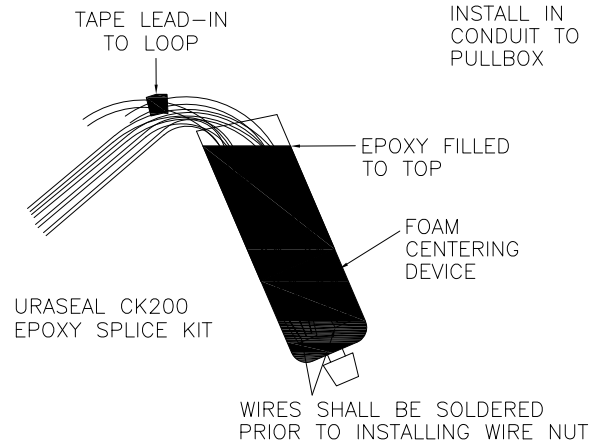
REVISIONS		
③	②	①
SEAL		
New Paving and Utility Construction		
IMPROVEMENT DISTRICT #: <b>BN-23-E1</b>		
DESIGN BY: JTS	CHECKED BY: CB1	
DRAWN BY: MJB	ORIG DATE: PlanDate	
	SECTION NO.	SHEET NO.
	150	---

**BN-23-E1\_150\_SIGNALS - 150\_02-Pull Box**

01/23/24 08:51:24AM T:\Engineering\Projects\Current\B\BN\BN-23-E1 (45 St. North of 19th)\Plans&Specs\BN-23-E1\_150\_SIGNALS.dwg

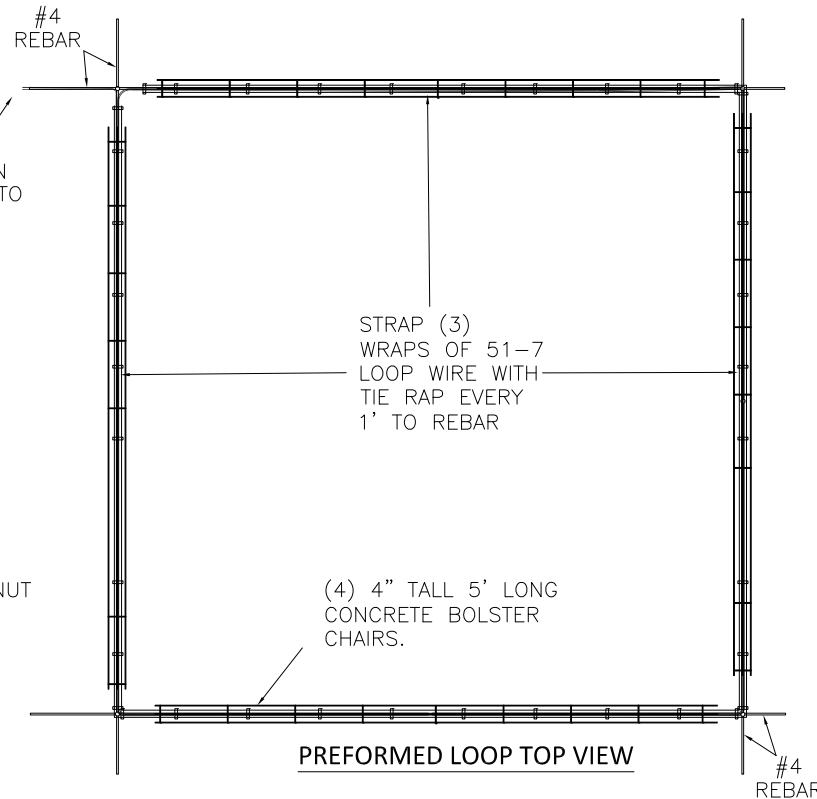
**SPLICE KIT NOTES:**

1. THE STRIP BACK POINT OF THE LOOP LEAD IN AND LOOP WIRE SHALL BE FULLY COVERED BY EPOXY IN THE KIT
2. NO TAPE INSIDE EPOXY SPLICE KIT

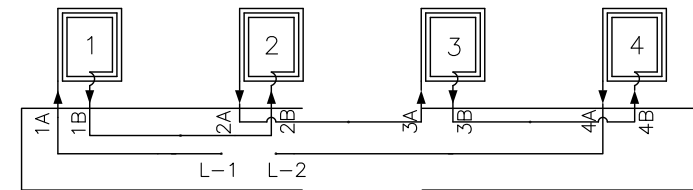


**SPLICE KIT DETAIL**

CONDUCTORS IN THE SPLICE KIT SHALL NOT BE TAPED TOGETHER. LOOP LEAD-IN AND LOOP WIRES SHALL HAVE SUFFICIENT SLACK TO EXTEND A MINIMUM OF 6' AND A MAXIMUM OF 10' ABOVE THE PULL BOX OPENING. SPLICE KIT SHALL BE TAPED TO A CONDUIT SO IT IS UP WITHIN 12" FROM LID OF PULL BOX.

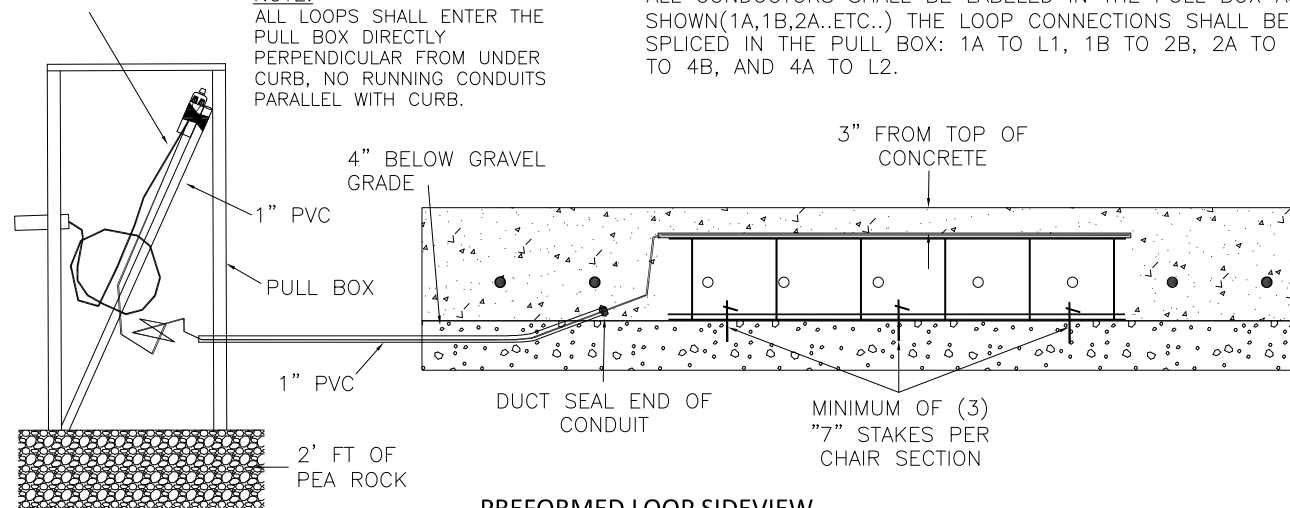


**PERFORMED LOOP TOP VIEW**



MULTIPLE LOOP CONNECTION  
ALL CONDUCTORS SHALL BE LABELED IN THE PULL BOX AS SHOWN(1A,1B,2A..ETC..) THE LOOP CONNECTIONS SHALL BE SPLICED IN THE PULL BOX: 1A TO L1, 1B TO 2B, 2A TO 3A, 3B TO 4B, AND 4A TO L2.

**NOTE:**  
ALL LOOPS SHALL ENTER THE PULL BOX DIRECTLY PERPENDICULAR FROM UNDER CURB, NO RUNNING CONDUITS PARALLEL WITH CURB.



**PERFORMED LOOP SIDEVIEW**

REVISIONS		
③	②	①

SEAL

**BN-23-E1\_150\_SIGNALS - 150\_03-Loops**

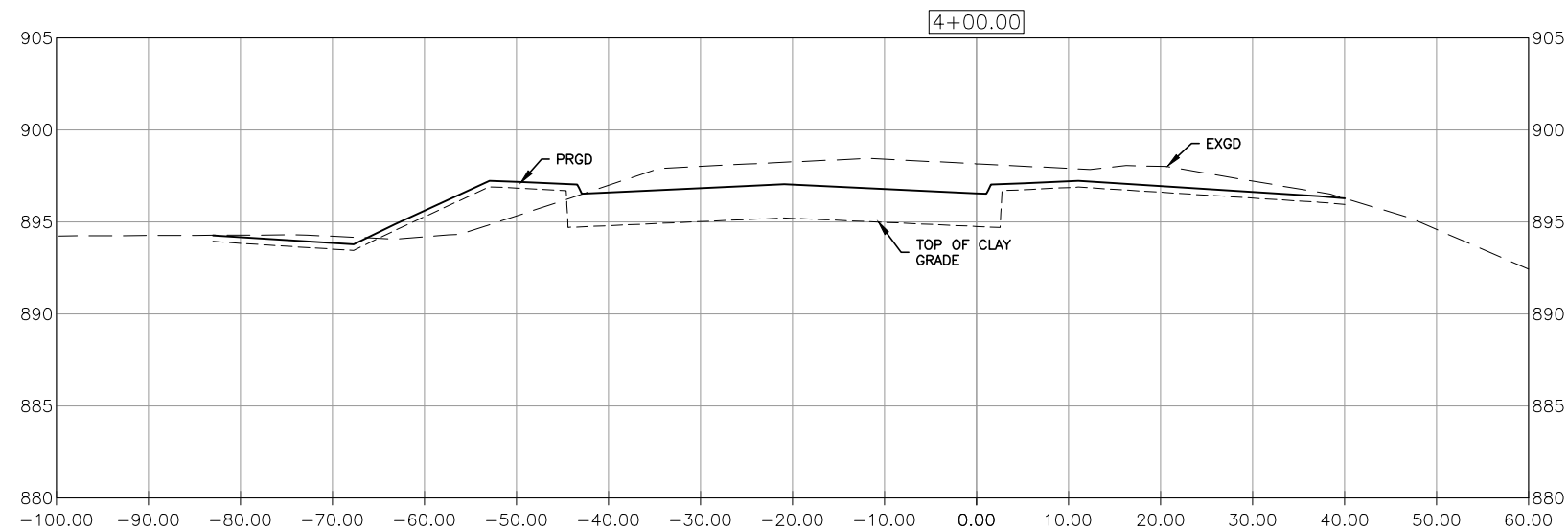
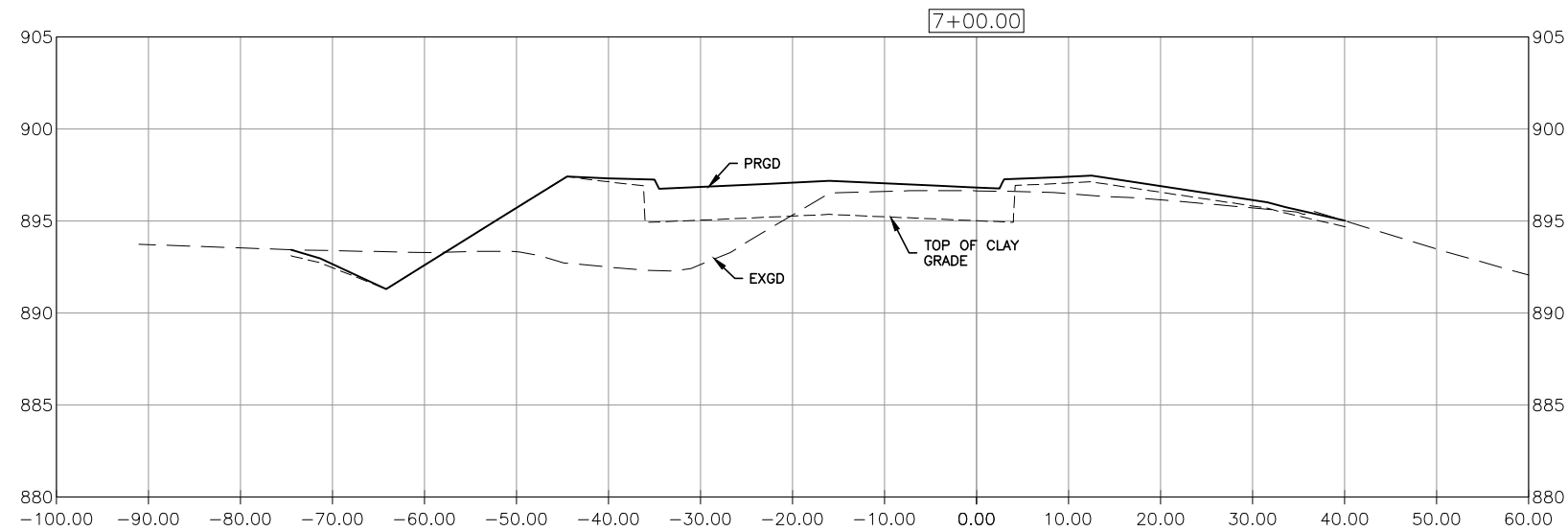
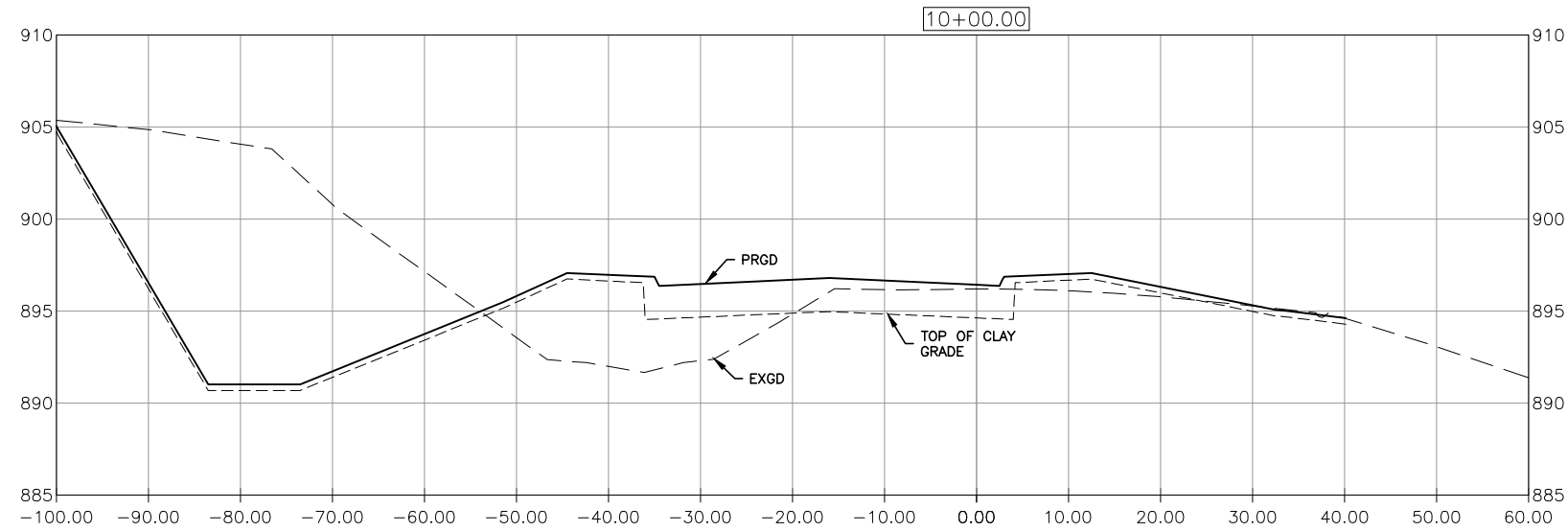
New Paving and Utility Construction

IMPROVEMENT DISTRICT #: **BN-23-E1**

DESIGN BY: JTS	CHECKED BY: CB1
DRAWN BY: MJB	ORIG DATE: PlanDate

	SECTION NO.	SHEET NO.
	150	—

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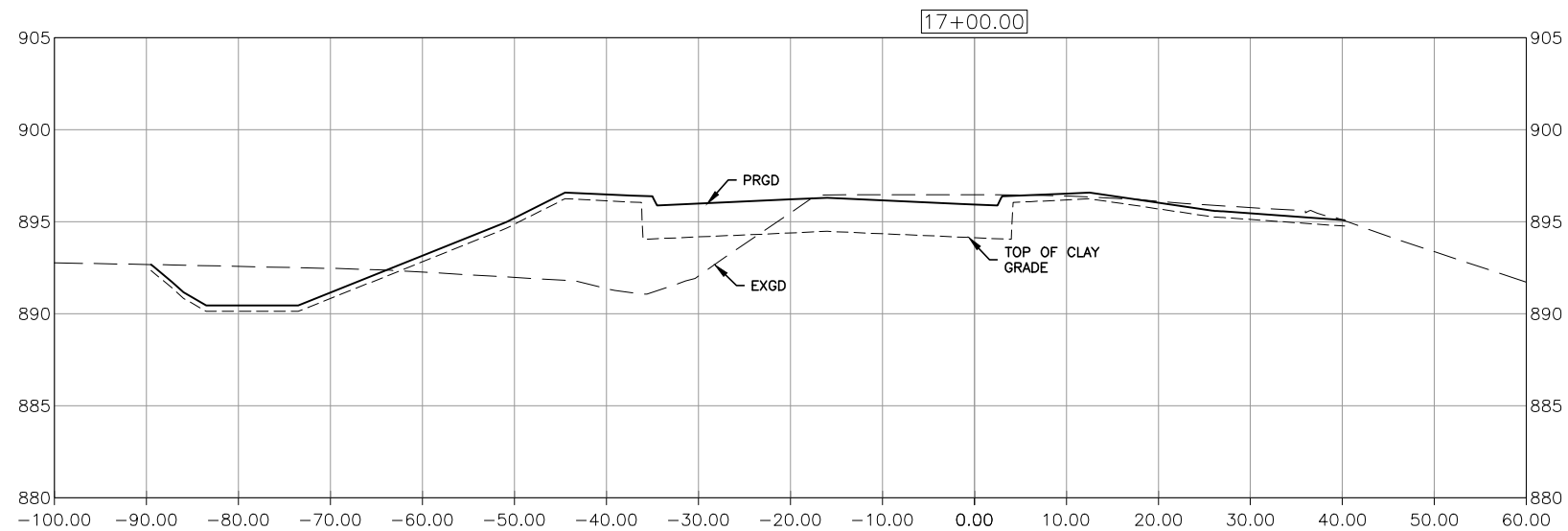
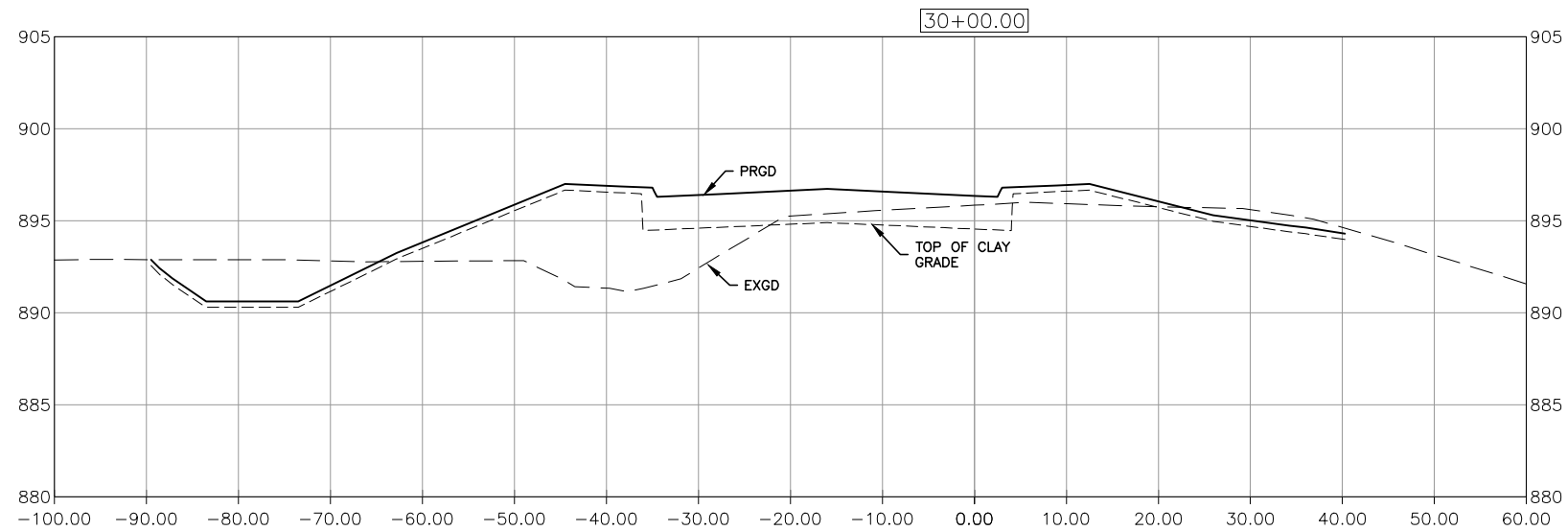
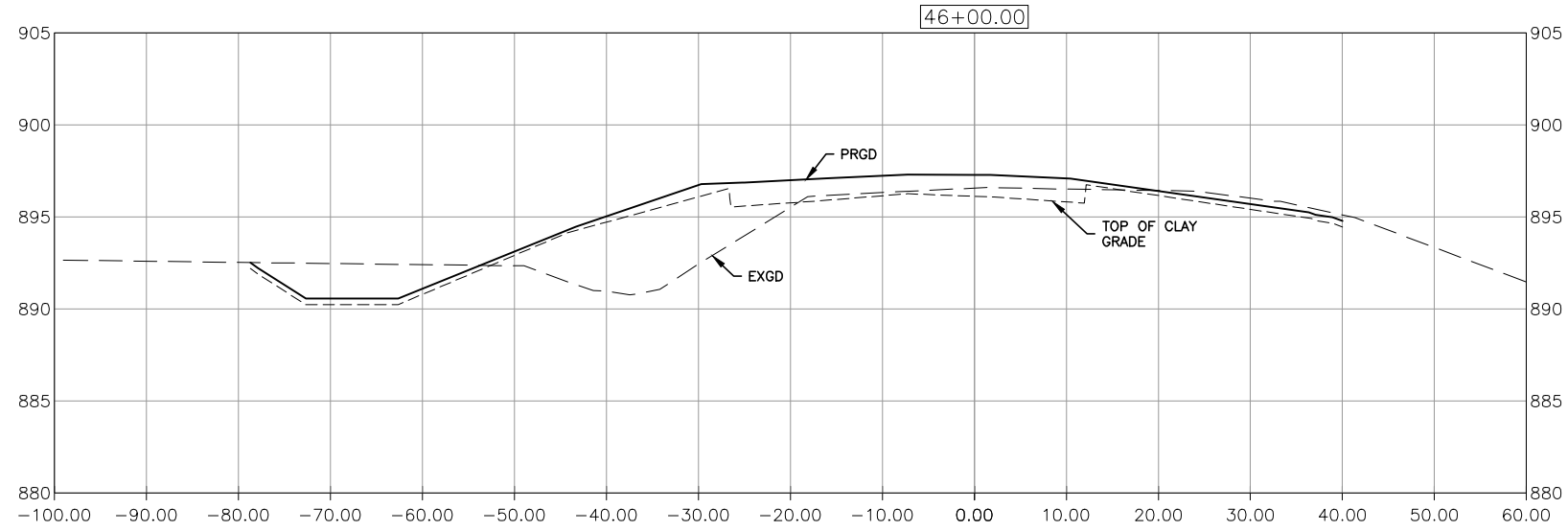


ALL ELEVATIONS ARE BASED ON  
NAVD 88 DATUM (PRE-GEOD18).  
(UNLESS NOTED OTHERWISE)

ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①
<b>Typical Cross Sections</b>		
New Paving and Utility Construction		
Improvement District <b>BN-23-E1</b>		
DESIGN BY: JTS	CHECKED BY: CB1	
DRAWN BY: MJB	ORIG DATE: PlanDate	
<b>FARGO</b> THE CITY OF FAR MORE	SECTION NO.	SHEET NO.
	<b>200</b>	<b>1</b>

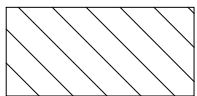


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ALL ELEVATIONS ARE BASED ON  
NAVD 88 DATUM (PRE-GEOD18).  
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ADDENDUM & CONSTRUCTION REVISIONS		
③	②	①
<b>Typical Cross Sections</b>		
New Paving and Utility Construction		
Improvement District <b>BN-23-E1</b>		
DESIGN BY: JTS	CHECKED BY: CB1	
DRAWN BY: MJB	ORIG DATE: PlanDate	
<b>FARGO</b> THE CITY OF FAR MORE	SECTION NO.	SHEET NO.
	<b>200</b>	<b>2</b>



FUTURE BENEFITING AREA OUTSIDE CITY LIMITS

CITY OF FARGO ENGINEERING  
DEPARTMENT

LOCATION & ASSESSMENT AREA

PROJECT TITLE & INCIDENTALS

IMPROVEMENT DISTRICT NO. BN-23-E



**BID SHEET**  
**NEW PAVING AND UTILITY CONSTRUCTION**  
**IMPROVEMENT DISTRICT NO. BN-23-E1**  
**45TH STREET NORTH FROM 19TH AVENUE NORTH TO 32ND AVENUE NORTH**

Note: Unit prices will govern and shall be in whole cents.

**Base Bid**

Line	Name	Quantity	Unit	Unit Value \$	Extended Value \$
<b>Miscellaneous</b>					
1	Mulching Type 2 Straw	60100	SY	_____	_____
2	Seeding Type A	60100	SY	_____	_____
3	Stormwater Management	1	LS	_____	_____
4	Temp Construction Entrance	3	EA	_____	_____
5	Sediment Control Log 6" to 8" Dia	5125	LF	_____	_____
6	Inlet Protection - New Inlet	16	EA	_____	_____
7	Inlet Protection - Existing Inlet	6	EA	_____	_____
<b>Miscellaneous Total</b>					
<b>Outfall Restoration</b>					
8	F&I Rip Rap Rock	410	CY	_____	_____
9	Excavation	900	CY	_____	_____
<b>Outfall Restoration Total</b>					
<b>Sanitary Sewer</b>					
10	Modify Manhole	1	EA	_____	_____
11	Remove Manhole	1	EA	_____	_____
12	Plug Pipe 8" Dia	3	EA	_____	_____
13	Remove Pipe All Sizes All Types	10	LF	_____	_____
<b>Sanitary Sewer Total</b>					
<b>Water Main</b>					
14	F&I Fittings C153 Ductile Iron	922	LB	_____	_____
15	F&I Hydrant	2	EA	_____	_____

16	F&I Insulation 4" Thick	10	SY	_____	_____
17	Connect Pipe to Exist Pipe	3	EA	_____	_____
18	F&I Pipe C900 DR 18 - 6" Dia PVC	11	LF	_____	_____
19	F&I Pipe C900 DR 18 - 16" Dia PVC	243	LF	_____	_____
20	F&I Pipe w/GB C900 DR 18 - 16" Dia PVC	40	LF	_____	_____
21	F&I Gate Valve 6" Dia	1	EA	_____	_____
22	F&I Gate Valve 16" Dia	1	EA	_____	_____
23	F&I Hydrant Ext. 36" High	2	EA	_____	_____

**Water Main Total**

**Storm Sewer**

24	F&I Controlled Density Fill	4	CY	_____	_____
25	F&I Flap Gate 24" Dia Stainless Steel	1	EA	_____	_____
26	F&I Flap Gate 30" Dia Stainless Steel	1	EA	_____	_____
27	F&I Manhole 4' Dia Reinf Conc	1	EA	_____	_____
28	F&I Manhole 6' Dia Reinf Conc	1	EA	_____	_____
29	F&I Manhole 7' Dia Reinf Conc	1	EA	_____	_____
30	F&I Inlet - Single Box (SBI) Reinf Conc	8	EA	_____	_____
31	F&I Inlet - Double Box (DBI) Reinf Conc	6	EA	_____	_____
32	Connect Pipe to Exist Pipe	1	EA	_____	_____
33	F&I Pipe 18" Dia	17	LF	_____	_____
34	F&I Pipe 24" Dia	0	LF	_____	_____
35	F&I Pipe 12" Dia Reinf Conc	14	LF	_____	_____
36	F&I Pipe 18" Dia Reinf Conc	221	LF	_____	_____
37	F&I Pipe 24" Dia Reinf Conc	240	LF	_____	_____
38	F&I Pipe 30" Dia Reinf Conc	138	LF	_____	_____
39	F&I Pipe 18" Dia Corr Steel	80	LF	_____	_____
40	F&I Pipe 24" Dia Corr Steel	60	LF	_____	_____
41	Remove Pipe All Sizes All Types	225	LF	_____	_____
42	F&I Pipe w/GB 18" Dia Reinf Conc	254	LF	_____	_____
43	F&I Pipe w/GB 24" Dia Reinf Conc	40	LF	_____	_____

44	F&I Pipe w/GB 30" Dia Reinf Conc	40	LF	_____	_____
45	F&I Rip Rap Rock	150	CY	_____	_____
46	F&I Flared End Section 12" Dia Reinf Conc	1	EA	_____	_____
47	F&I Flared End Section 18" Dia Reinf Conc	6	EA	_____	_____
48	F&I Flared End Section 24" Dia Reinf Conc	2	EA	_____	_____
49	F&I Flared End Section 30" Dia Reinf Conc	2	EA	_____	_____
50	F&I Flared End Section 18" Dia Corr Steel	2	EA	_____	_____
51	F&I Flared End Section 24" Dia Corr Steel	2	EA	_____	_____

**Storm Sewer Total**

**Paving**

52	Remove Pavement All Thicknesses All Types	2342	SY	_____	_____
53	Fill - Contractor Supply	16679	CY	_____	_____
54	Excavation	23378	CY	_____	_____
55	Subgrade Preparation	21220	SY	_____	_____
56	F&I Woven Geotextile	22000	SY	_____	_____
57	F&I Class 5 Agg - 6" Thick	800	SY	_____	_____
58	F&I Class 5 Agg - 10" Thick	21220	SY	_____	_____
59	Remove Gravel	2342	SY	_____	_____
60	F&I Edge Drain 4" Dia PVC	9110	LF	_____	_____
61	F&I Curb & Gutter Standard (Type II)	9898	LF	_____	_____
62	Remove Curb & Gutter	20	LF	_____	_____
63	F&I Pavement 6" Thick Reinf Conc	97	SY	_____	_____
64	F&I Pavement 10" Thick Doweled Conc	18200	SY	_____	_____
65	F&I Median Nose Conc	18	SY	_____	_____
66	F&I Impressioned 4" Thick Reinf Conc	157	SY	_____	_____
67	F&I Asphalt Pavement FAA 43 w/ PG58H-34	20	Ton	_____	_____
68	Casting to Grade - Blvd	1	EA	_____	_____
69	Casting to Grade - no Conc	14	EA	_____	_____
70	GV Box to Grade - Blvd	2	EA	_____	_____
71	F&I Driveway 7" Thick Reinf Conc	97	SY	_____	_____

**Paving Total**

**Signing**

72	Traffic Control - Type 1	1	LS	_____	_____
73	F&I Sign Assembly	8	EA	_____	_____
74	Remove Sign Assembly	6	EA	_____	_____
75	F&I Sign Assembly & Anchor	15	EA	_____	_____
76	F&I Diamond Grade Cubed	30	SF	_____	_____
77	F&I High Intensity Prismatic	104.7	SF	_____	_____
78	F&I Flexible Delineator	2	EA	_____	_____

**Signing Total**

**Pavement Marking**

79	F&I Grooved Plastic Film 8" Wide	99	LF	_____	_____
80	F&I Grooved Plastic Film 16" Wide	33	LF	_____	_____
81	F&I Grooved Contrast Film 7" Wide	2040	LF	_____	_____
82	F&I Grooved Contrast Film 11" Wide	622	LF	_____	_____
83	F&I Grooved Thermoplastic Pavement Marking Message	128	SF	_____	_____
84	Paint Epoxy Line 4" Wide	860	LF	_____	_____
85	Paint Epoxy Line 16" Wide	12	LF	_____	_____
86	Paint Epoxy Message	101	SF	_____	_____

**Pavement Marking Total**

**Street Lights**

87	Remove Street Light	2	EA	_____	_____
88	F&I Feed Point	1	EA	_____	_____
89	F&I Base 6' Deep Reinf Conc	1	EA	_____	_____
90	F&I Base 7' Deep Reinf Conc	21	EA	_____	_____
91	Remove Base	2	EA	_____	_____
92	F&I Conductor #6 USE Cu	13299	LF	_____	_____
93	F&I Innerduct 1.5" Dia	4570	LF	_____	_____

94	F&I Luminaire Type A	21	EA	_____	_____
95	F&I Luminaire Type B	1	EA	_____	_____
96	F&I Pull Box	1	EA	_____	_____
97	F&I Light Standard Type A	21	EA	_____	_____
98	F&I Light Standard Type B	1	EA	_____	_____

**Street Lights Total**

**Traffic Signals**

99	F&I Detection Preformed Loop	7	EA	_____	_____
100	F&I Conduit 2" Dia	200	LF	_____	_____
101	F&I Pull Box	1	EA	_____	_____
102	Relocate Pull Box PVC	1	EA	_____	_____

**Traffic Signals Total**

**OLD-Reile's Acres Estimate**

103	F&I Inlet - Double Box (DBI) Reinf Conc	6	EA	_____	_____
104	F&I Pipe 18" Dia Reinf Conc	120	LF	_____	_____
105	F&I Pipe w/GB 18" Dia Reinf Conc	105	LF	_____	_____
106	F&I Pipe w/GB 24" Dia Reinf Conc	150	LF	_____	_____
107	F&I Flared End Section 18" Dia Reinf Conc	3	EA	_____	_____
108	F&I Flared End Section 24" Dia Reinf Conc	2	EA	_____	_____
109	Fill - Contractor Supply	6700	CY	_____	_____
110	Excavation	2700	CY	_____	_____
111	Subcut	4000	CY	_____	_____
112	Subgrade Preparation	5550	SY	_____	_____
113	F&I Woven Geotextile	5550	SY	_____	_____
114	F&I Class 5 Agg - 10" Thick	5550	SY	_____	_____
115	F&I Edge Drain 4" Dia PVC	2600	LF	_____	_____
116	F&I Curb & Gutter Standard (Type II)	2040	LF	_____	_____
117	F&I Pavement 10" Thick Doweled Conc	3750	SY	_____	_____
118	F&I Asphalt Pavement FAA 43 w/ PG58H-34	524	Ton	_____	_____

119	F&I Feed Point	1	EA	_____	_____
120	F&I Base 6' Deep Reinf Conc	7	EA	_____	_____
121	F&I Conductor #6 USE Cu	4000	LF	_____	_____
122	F&I Innerduct 1.5" Dia	1260	LF	_____	_____
123	F&I Luminaire Type A	7	EA	_____	_____
124	F&I Pull Box	1	EA	_____	_____
125	F&I Light Standard Type A	7	EA	_____	_____

**OLD-Reile's Acres Estimate Total**

**Grand Total in \$** \_\_\_\_\_





**LOCATION AND COMPRISING  
NEW PAVING AND UTILITY CONSTRUCTION  
IMPROVEMENT DISTRICT NO. BN-23-E  
45TH STREET NORTH FROM 19TH AVENUE NORTH TO  
32ND AVENUE NORTH**

**LOCATION:**

On 45th Street North between 19th Avenue North and 32nd Avenue North.  
On 28th Avenue North from 45th Street North for 250' east.

**COMPRISING:**

The 95.01 acres of Southeast Quarter Section of Section 28, T140, R49W.  
The 4.43 acres of Southeast Quarter Section of Section 28, T140, R49W  
All platted within 2016 Annexation.

Lot 1, Block 1.  
Lot 1, Block 2.  
All platted in 19th Avenue Northeast Pond Addition.

Lot 1, Block 1.  
Platted in 19th Avenue Southwest pond addition.

Lot 1, Block 1.  
Platted in Magnum North Addition.

Lots 1 through 2, and Lots 4 -13, Block 1.  
Lots 1 through 7, Block 2.  
Lots 1 through 5, Block 3.  
Lot 1 and Lot 4, Block 4.  
All Platted in Laverne's Addition.

Lot 1, Block 1.  
Platted in Phoenix Addition.

Lots 1 through 2, Block 1.  
All platted in NDSU West Addition.

Lots 1 through 2, Block 1.  
All platted in Turf Tamers Addition.

Lots 1 through 11, Block 1.  
Lots 1 through 4, Block 2.  
Lots 1 through 6, Block 3.  
Lots 1 through 4, Block 4.

Lots 1 through 4, Block 5.

All platted in Laverne's Second Addition.

Lot 1, Block 1.

Platted in Laverne's Third Addition.

The Southern Half of the Northeast Quarter Section of Section 28, T140, R49W of Cass County.

All of the foregoing is located in the City of Fargo, Cass County, North Dakota and its Extra-Territorial Area.