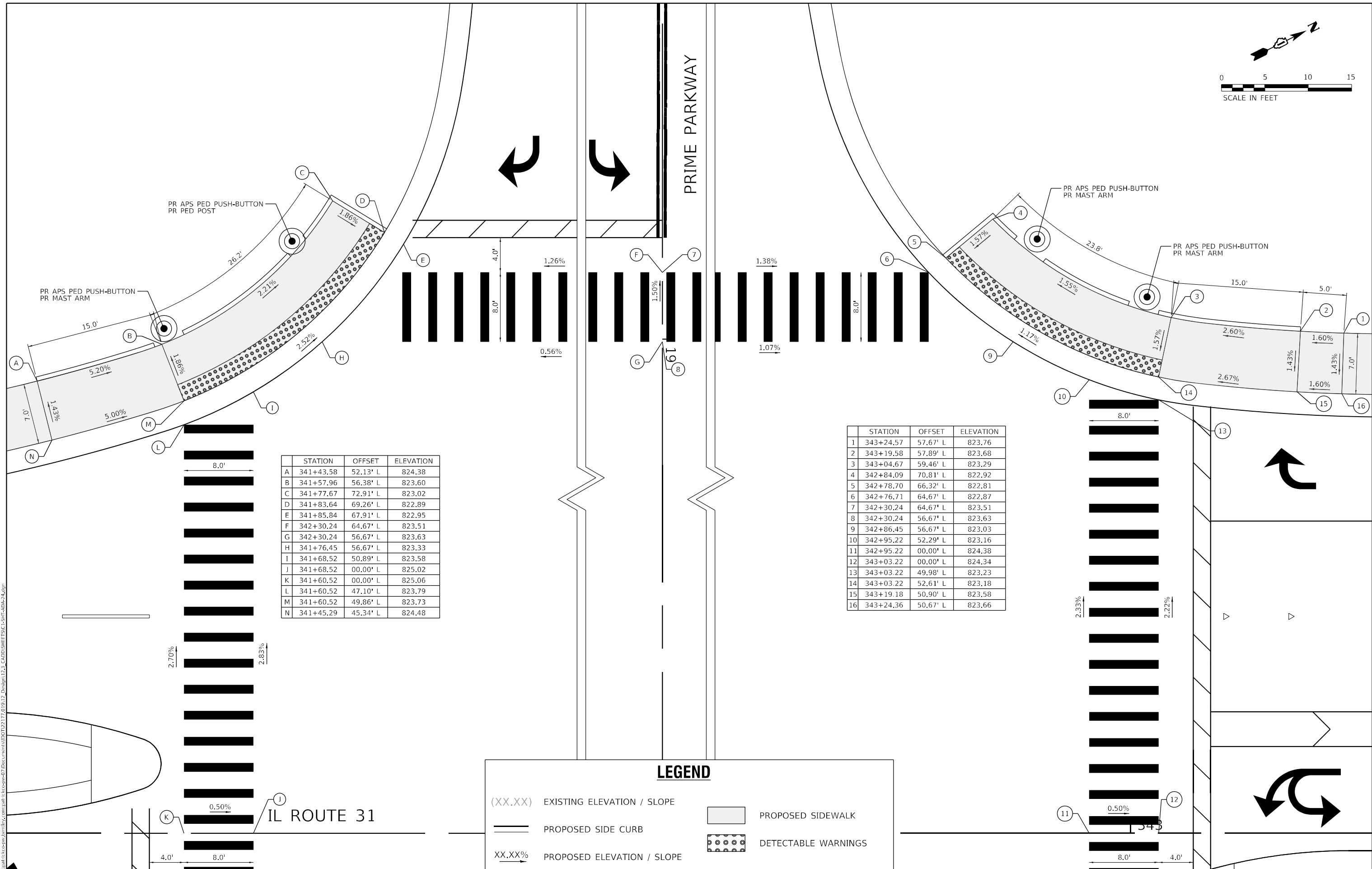


PRIME PARKWAY



	STATION	OFFSET	ELEVATION
1	343+24.57	57.67' L	823.76
2	343+19.58	57.89' L	823.68
3	343+04.67	59.46' L	823.29
4	342+84.09	70.81' L	822.92
5	342+78.70	66.32' L	822.81
6	342+76.71	64.67' L	822.87
7	342+30.24	64.67' L	823.51
8	342+30.24	56.67' L	823.63
9	342+86.45	56.67' L	823.03
10	342+95.22	52.29' L	823.16
11	342+95.22	00.00' L	824.38
12	343+03.22	00.00' L	824.34
13	343+03.22	49.98' L	823.23
14	343+03.22	52.61' L	823.18
15	343+19.18	50.90' L	823.58
16	343+24.36	50.67' L	823.66

LEGEND

(XX.XX) EXISTING ELEVATION / SLOPE

— PROPOSED SIDE CURB

XX.XX% PROPOSED ELEVATION / SLOPE

■ PROPOSED SIDEWALK

▨ DETECTABLE WARNINGS

MODEL: Default
 FILE NAME: p:\projects\336a\336a.dwg
 PROJECT: 336A
 USER: mike.ton
 DATE: 9/30/2025
 SCALE: 1"=5'
 SHEET: 9 OF 20



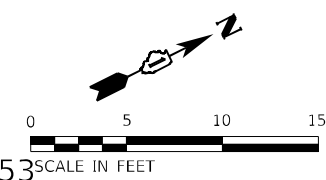
USER NAME = mike.ton	DESIGNED - MJJ	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - MGT	REVISED -
PLOT DATE = 2/4/2026	CHECKED - JAC	REVISED -
	DATE - 09/30/2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS - NW & SW CORNERS
ILLINOIS ROUTE 31 / PRIME PARKWAY**

SCALE: 1"=5' SHEET 9 OF 20 SHEETS STA. TO STA.

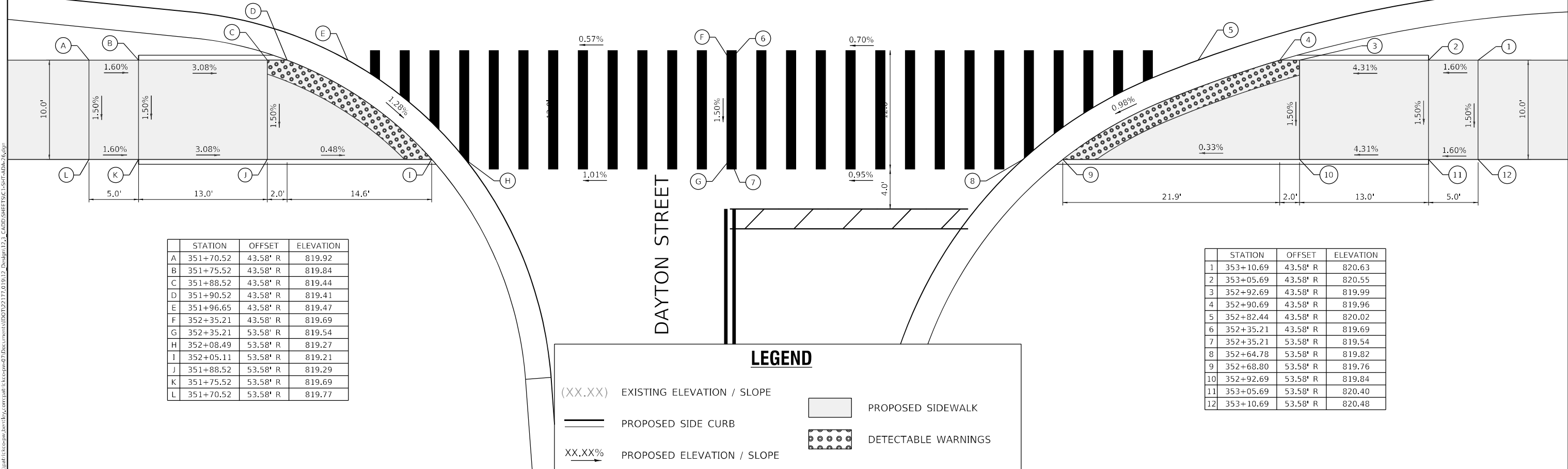
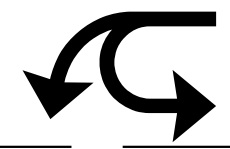
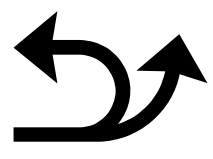
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	201
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	



352

IL ROUTE 31

353



	STATION	OFFSET	ELEVATION
A	351+70.52	43.58' R	819.92
B	351+75.52	43.58' R	819.84
C	351+88.52	43.58' R	819.44
D	351+90.52	43.58' R	819.41
E	351+96.65	43.58' R	819.47
F	352+35.21	43.58' R	819.69
G	352+35.21	53.58' R	819.54
H	352+08.49	53.58' R	819.27
I	352+05.11	53.58' R	819.21
J	351+88.52	53.58' R	819.29
K	351+75.52	53.58' R	819.69
L	351+70.52	53.58' R	819.77

	STATION	OFFSET	ELEVATION
1	353+10.69	43.58' R	820.63
2	353+05.69	43.58' R	820.55
3	352+92.69	43.58' R	819.99
4	352+90.69	43.58' R	819.96
5	352+82.44	43.58' R	820.02
6	352+35.21	43.58' R	819.69
7	352+35.21	53.58' R	819.54
8	352+64.78	53.58' R	819.82
9	352+68.80	53.58' R	819.76
10	352+92.69	53.58' R	819.84
11	353+05.69	53.58' R	820.40
12	353+10.69	53.58' R	820.48

LEGEND

(XX.XX) EXISTING ELEVATION / SLOPE

— PROPOSED SIDE CURB

XX.XX% PROPOSED ELEVATION / SLOPE

PROPOSED SIDEWALK

DETECTABLE WARNINGS

MODEL: Default
 FILE NAME: p:\projects\336A\336A-11-ADA-RAMP-DETAILS-NE-SE-CORNER.DWG
 USER: akshar.patel
 DATE: 09/30/2025
 SCALE: 1"=5'
 SHEET: 11 OF 20



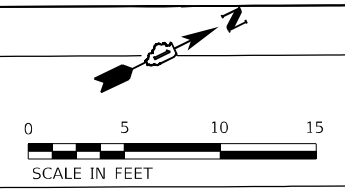
USER NAME = akshar.patel	DESIGNED - MJJ	REVISED -
PLOT SCALE = 10,0000' / in.	DRAWN - MGT	REVISED -
PLOT DATE = 3/18/2026	CHECKED - JAC	REVISED -
	DATE - 09/30/2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS – NE & SE CORNERS
ILLINOIS ROUTE 31 / DAYTON STREET**

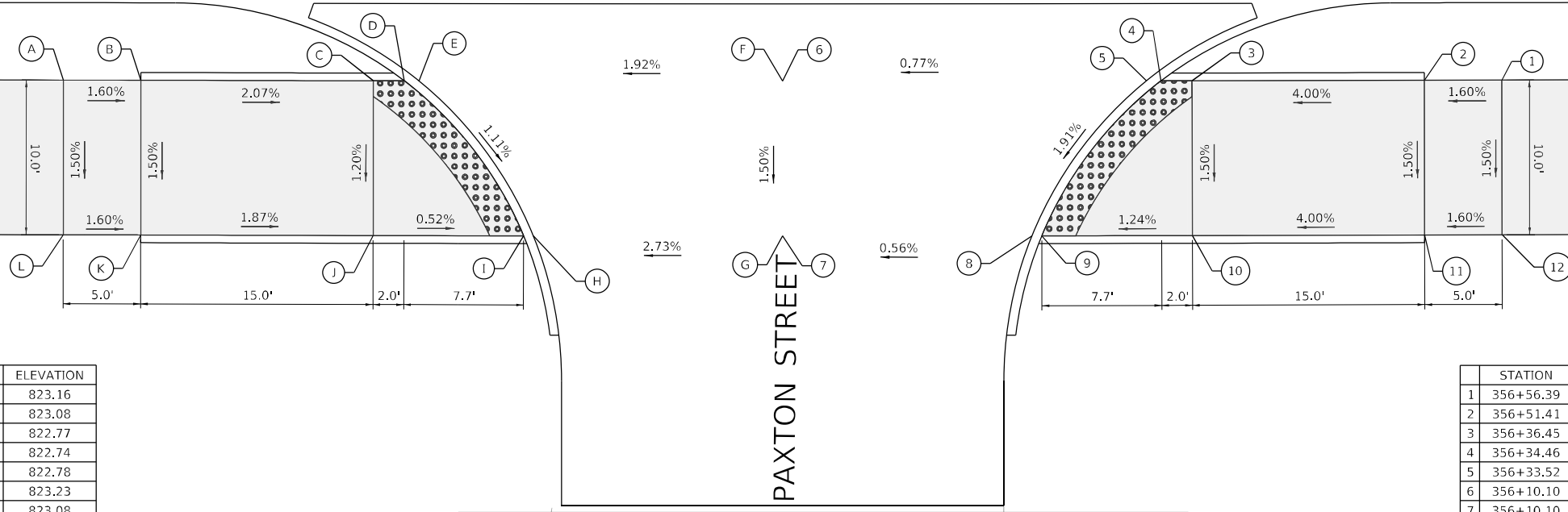
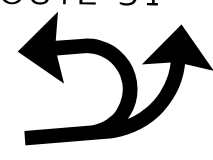
SCALE: 1"=5' SHEET 11 OF 20 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	203
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	



356

IL ROUTE 31



	STATION	OFFSET	ELEVATION
A	355+63.81	43.58' R	823.16
B	355+68.80	43.58' R	823.08
C	355+83.75	43.58' R	822.77
D	355+85.75	43.58' R	822.74
E	355+86.69	43.58' R	822.78
F	356+10.10	43.57' R	823.23
G	356+10.10	53.58' R	823.08
H	355+94.06	53.59' R	822.64
I	355+93.44	53.59' R	822.60
J	355+83.75	53.58' R	822.65
K	355+68.81	53.58' R	822.93
L	355+63.82	53.58' R	823.01


	STATION	OFFSET	ELEVATION
1	356+56.39	43.58' R	824.08
2	356+51.41	43.58' R	824.00
3	356+36.45	43.58' R	823.40
4	356+34.46	43.58' R	823.37
5	356+33.52	43.58' R	823.41
6	356+10.10	43.57' R	823.23
7	356+10.10	53.58' R	823.08
8	356+26.14	53.59' R	823.17
9	356+26.77	53.59' R	823.13
10	356+36.45	53.58' R	823.25
11	356+51.40	53.58' R	823.85
12	356+56.38	53.58' R	823.93


LEGEND

(XX.XX) EXISTING ELEVATION / SLOPE

— PROPOSED SIDE CURB

XX.XX% PROPOSED ELEVATION / SLOPE

 PROPOSED SIDEWALK

 DETECTABLE WARNINGS

MODEL: Default
 FILE NAME: p:\paxton\paxton.dwg
 USER: mike.thom
 DESIGNED: MJJ
 DRAWN: MGT
 CHECKED: JAC
 DATE: 09/30/2025
 PLOT SCALE: 10.0000' / in.
 PLOT DATE: 2/4/2026



USER NAME = mike.thom	DESIGNED - MJJ	REVISED -
	DRAWN - MGT	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - JAC	REVISED -
PLOT DATE = 2/4/2026	DATE - 09/30/2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

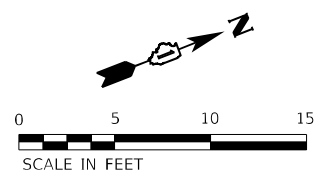
**ADA RAMP DETAILS – NE & SE CORNERS
ILLINOIS ROUTE 31 / PAXTON STREET**

SCALE: 1"=5' SHEET 12 OF 20 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	204
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

SHAMROCK LANE

IL ROUTE 31



	STATION	OFFSET	ELEVATION
A	368+05.82	53.58' R	832.15
B	368+05.82	43.58' R	832.10
C	368+05.82	38.58' R	831.91
D	368+05.82	36.00' R	831.97
E	367+92.02	00.00' R	832.56
F	368+02.76	00.00' R	832.61
G	368+16.58	36.00' R	832.03
H	368+16.58	38.58' R	831.97
I	368+16.58	43.58' R	832.15
J	368+16.58	53.58' R	832.20

PR APS PED PUSH-BUTTON
PR PED POST

LEGEND

- (XX.XX) EXISTING ELEVATION / SLOPE
- PROPOSED SIDE CURB
- XX.XX% PROPOSED ELEVATION / SLOPE
- ▭ PROPOSED SIDEWALK
- ▣ DETECTABLE WARNINGS

MODEL: Default
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 USER: mike.than
 DATE: 2/4/2026



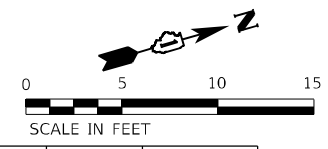
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PLOT SCALE = 10.0000' / in.	DRAWN - MGT	REVISED -
PLOT DATE = 2/4/2026	CHECKED - JAC	REVISED -
	DATE - 09/30/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS – SE CORNER
ILLINOIS ROUTE 31 / SHAMROCK LANE

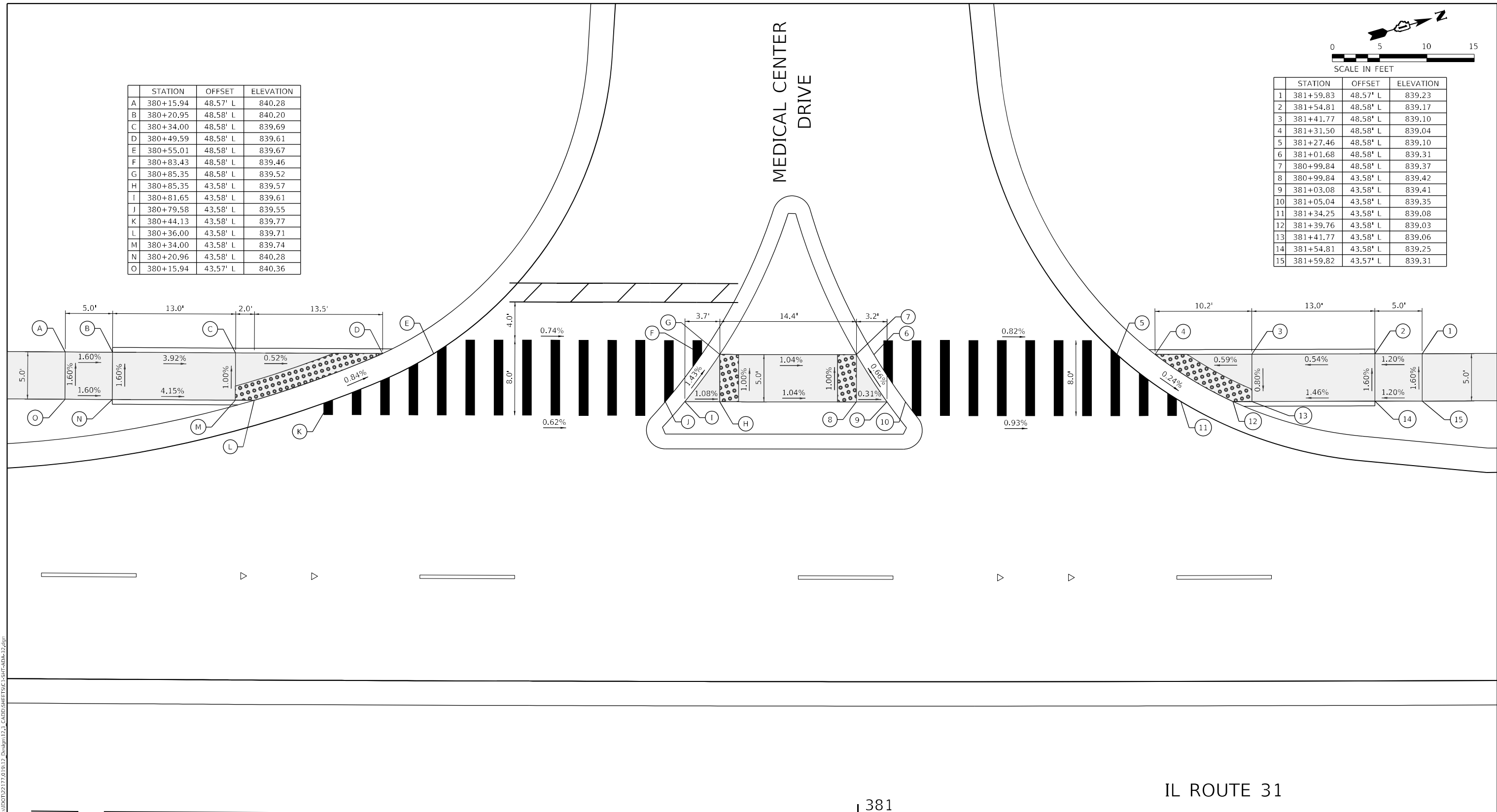
SCALE: 1"=5' SHEET 15 OF 20 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	207
CONTRACT NO. 80C85				
ILLINOIS		FED. AID PROJECT		



	STATION	OFFSET	ELEVATION
A	380+15.94	48.57' L	840.28
B	380+20.95	48.58' L	840.20
C	380+34.00	48.58' L	839.69
D	380+49.59	48.58' L	839.61
E	380+55.01	48.58' L	839.67
F	380+83.43	48.58' L	839.46
G	380+85.35	48.58' L	839.52
H	380+85.35	43.58' L	839.57
I	380+81.65	43.58' L	839.61
J	380+79.58	43.58' L	839.55
K	380+44.13	43.58' L	839.77
L	380+36.00	43.58' L	839.71
M	380+34.00	43.58' L	839.74
N	380+20.96	43.58' L	840.28
O	380+15.94	43.57' L	840.36

	STATION	OFFSET	ELEVATION
1	381+59.83	48.57' L	839.23
2	381+54.81	48.58' L	839.17
3	381+41.77	48.58' L	839.10
4	381+31.50	48.58' L	839.04
5	381+27.46	48.58' L	839.10
6	381+01.68	48.58' L	839.31
7	380+99.84	48.58' L	839.37
8	380+99.84	43.58' L	839.42
9	381+03.08	43.58' L	839.41
10	381+05.04	43.58' L	839.35
11	381+34.25	43.58' L	839.08
12	381+39.76	43.58' L	839.03
13	381+41.77	43.58' L	839.06
14	381+54.81	43.58' L	839.25
15	381+59.82	43.57' L	839.31






MODEL: Default
 FILE NAME: p:\projects\336a\336a.dwg
 PROJECT: 336A
 USER: mike.than
 DATE: 2/4/2026

IL ROUTE 31

381

LEGEND

(XX.XX)	EXISTING ELEVATION / SLOPE		PROPOSED SIDEWALK
	PROPOSED SIDE CURB		DETECTABLE WARNINGS
XX.XX%	PROPOSED ELEVATION / SLOPE		



USER NAME = mike.than	DESIGNED - MJJ	REVISED -
PLOT SCALE = 10,0000' / in.	DRAWN - MGT	REVISED -
PLOT DATE = 2/4/2026	CHECKED - JAC	REVISED -
	DATE - 09/30/2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS – NW & SW CORNERS
ILLINOIS ROUTE 31 / MEDICAL CENTER DRIVE**

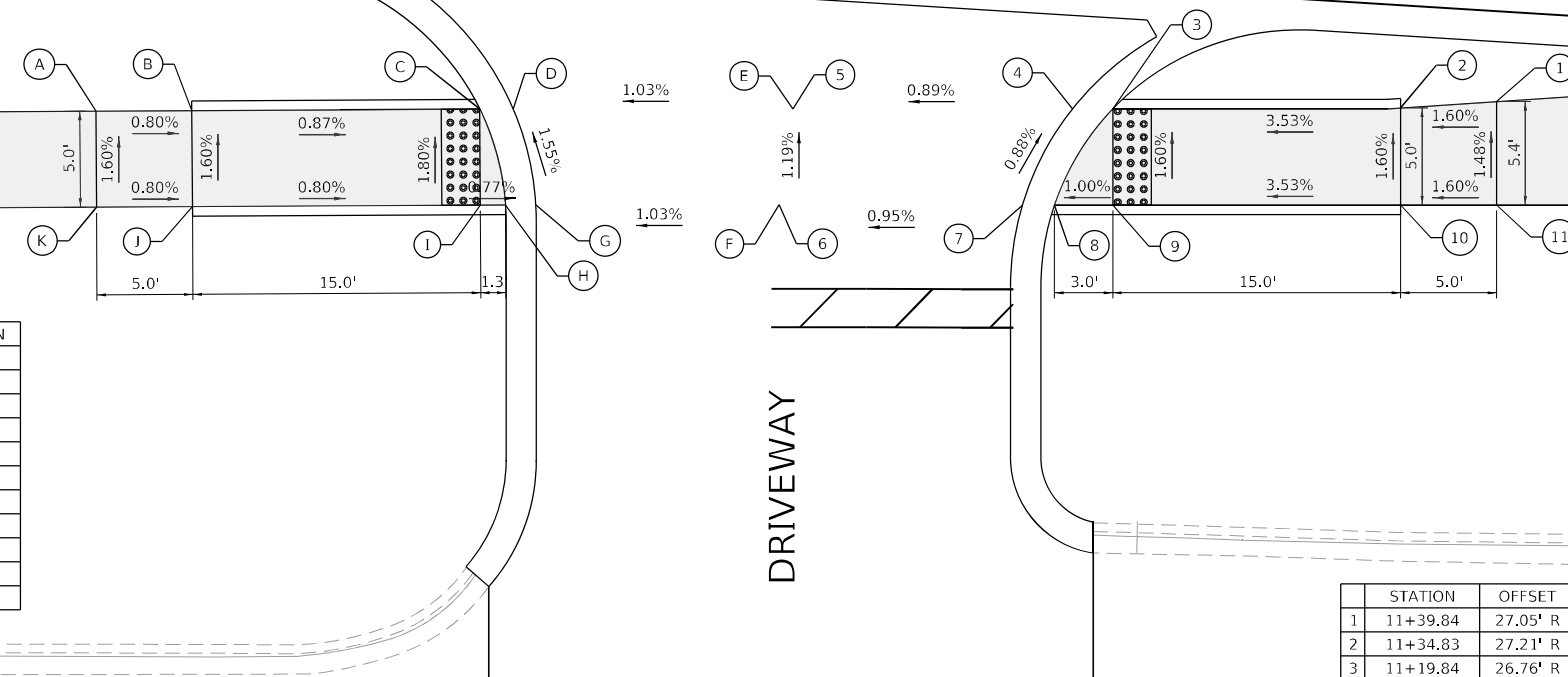
SCALE: 1"=5' SHEET 17 OF 20 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	209
			CONTRACT NO. 80C85	
ILLINOIS FED. AID PROJECT				

SHAMROCK LANE

ONLY

ONLY

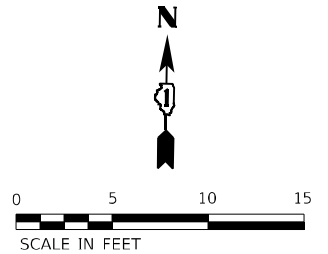
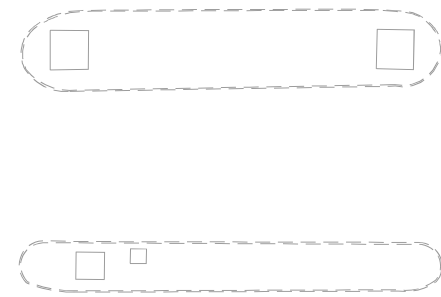


	STATION	OFFSET	ELEVATION
A	10+66.89	25.11' R	828.96
B	10+71.89	25.25' R	828.92
C	10+86.88	25.67' R	828.79
D	10+88.62	25.71' R	828.83
E	11+03.18	26.20' R	828.98
F	11+02.31	31.17' R	829.04
G	10+89.63	30.75' R	828.91
H	10+88.05	30.70' R	828.87
I	10+86.74	30.66' R	828.88
J	10+71.75	30.25' R	829.00
K	10+66.75	30.11' R	829.04

	STATION	OFFSET	ELEVATION
1	11+39.84	27.05' R	829.68
2	11+34.83	27.21' R	829.60
3	11+19.84	26.76' R	829.07
4	11+17.74	26.69' R	829.11
5	11+03.18	26.20' R	828.98
6	11+02.31	31.17' R	829.04
7	11+14.98	31.60' R	829.16
8	11+16.64	31.65' R	829.12
9	11+19.67	31.75' R	829.15
10	11+34.66	32.25' R	829.68
11	11+39.66	32.42' R	829.76

LEGEND

- (XX.XX) EXISTING ELEVATION / SLOPE
- PROPOSED SIDE CURB
- XX.XX% PROPOSED ELEVATION / SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS



MODEL: P:\default
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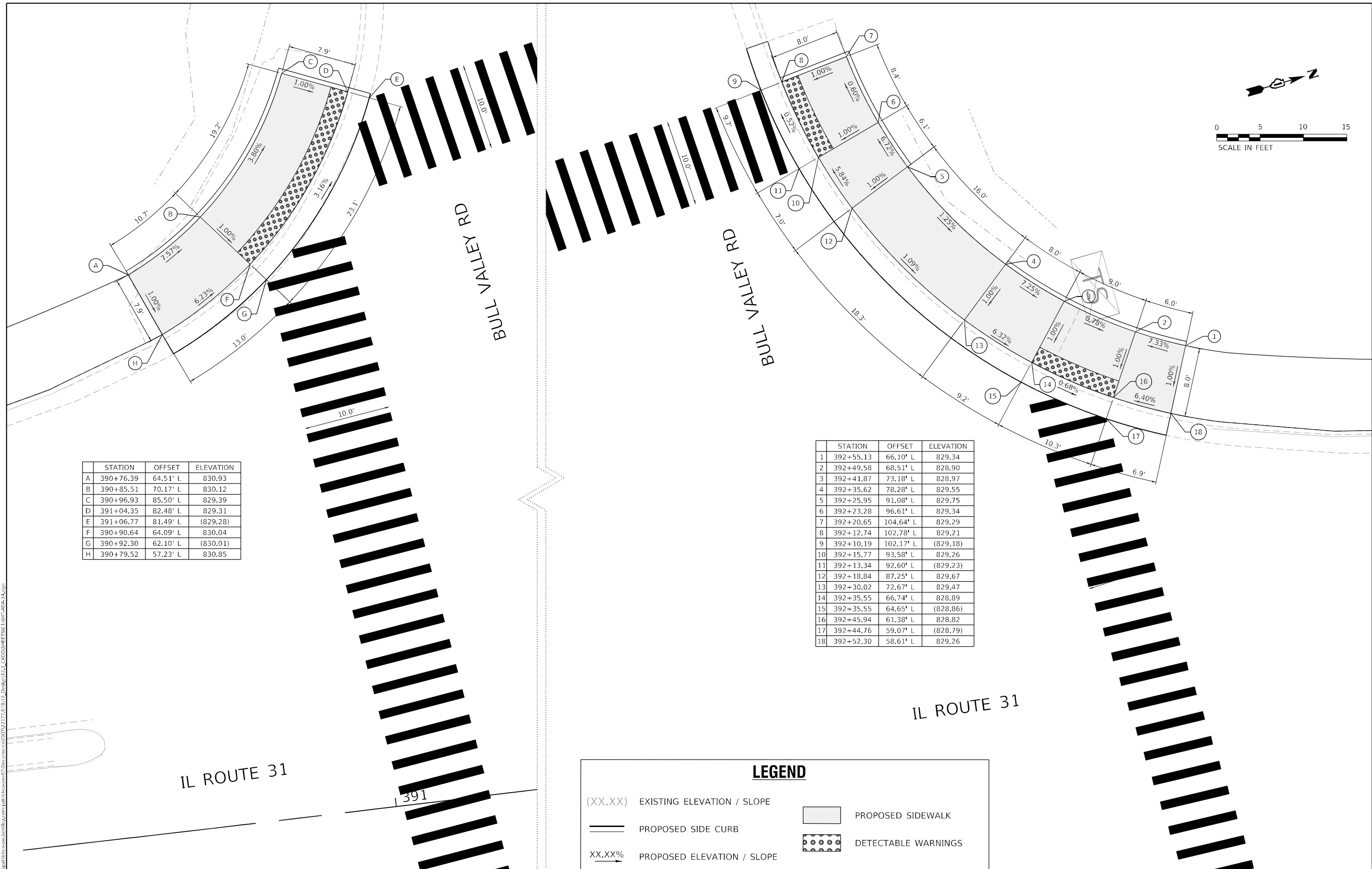
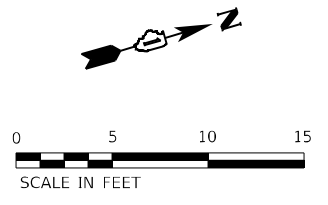
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PLOT SCALE = 10,0000' / in.	DRAWN - MGT	REVISED -
PLOT DATE = 2/4/2026	CHECKED - JAC	REVISED -
	DATE - 09/30/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS – SE & SW CORNERS
SHAMROCK LANE /DRIVEWAY STA. 11+00.00

SCALE: 1"=5' SHEET 18 OF 20 SHEETS STA. 11+00.00 TO STA.

F.A.P. RTE. 336A	SECTION 2025-2127-R,C,TS,SW	COUNTY McHENRY	TOTAL SHEETS 553	SHEET NO. 210
			CONTRACT NO. 80C85	
ILLINOIS FED. AID PROJECT				



	STATION	OFFSET	ELEVATION
A	390+76.39	64.51' L	830.93
B	390+85.51	70.17' L	830.12
C	390+96.93	85.50' L	829.39
D	391+04.35	82.48' L	829.31
E	391+06.77	81.49' L	(829.28)
F	390+90.64	64.09' L	830.04
G	390+92.30	62.10' L	(830.01)
H	390+79.52	57.23' L	830.85

	STATION	OFFSET	ELEVATION
1	392+55.13	66.10' L	829.34
2	392+49.58	68.51' L	828.90
3	392+41.87	73.18' L	828.97
4	392+35.62	78.28' L	829.55
5	392+25.95	91.08' L	829.75
6	392+23.28	96.61' L	829.34
7	392+20.65	104.64' L	829.29
8	392+12.74	102.78' L	829.21
9	392+10.19	102.17' L	(829.18)
10	392+15.77	93.58' L	829.26
11	392+13.34	92.60' L	(829.23)
12	392+18.84	87.25' L	829.67
13	392+30.02	72.67' L	829.47
14	392+35.55	66.74' L	828.89
15	392+35.55	64.65' L	(828.86)
16	392+45.94	61.38' L	828.82
17	392+44.76	59.07' L	(828.79)
18	392+52.30	58.61' L	829.26

LEGEND

(XX.XX)	EXISTING ELEVATION / SLOPE		PROPOSED SIDEWALK
	PROPOSED SIDE CURB		DETECTABLE WARNINGS
XX.XX%	PROPOSED ELEVATION / SLOPE		

MODEL - Default
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PLOT SCALE = 10,0006' / in	DRAWN - MGT	REVISED -
PLOT DATE = 3/18/2026	CHECKED - JAC	REVISED -
	DATE - 09/30/2025	REVISED -

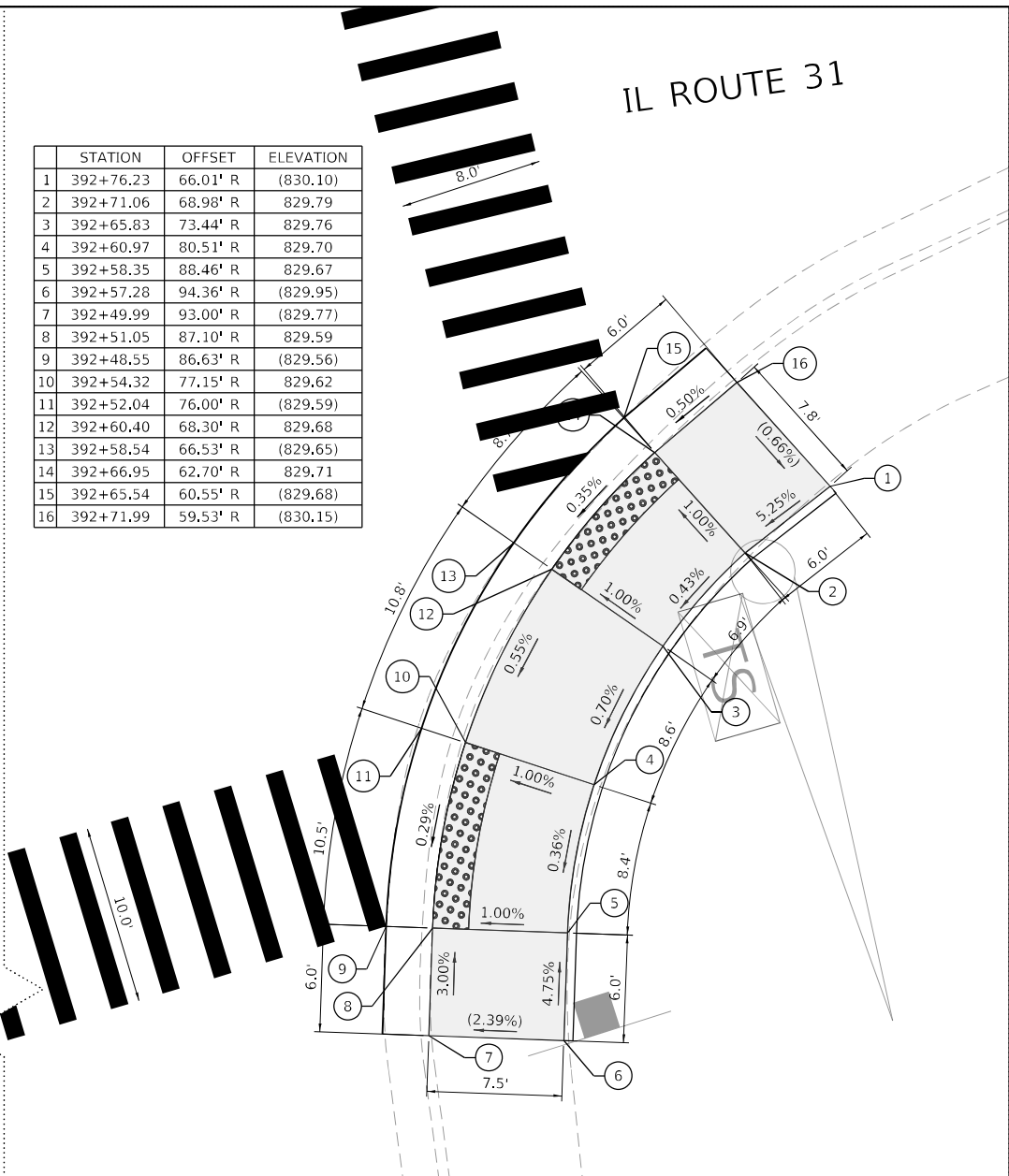
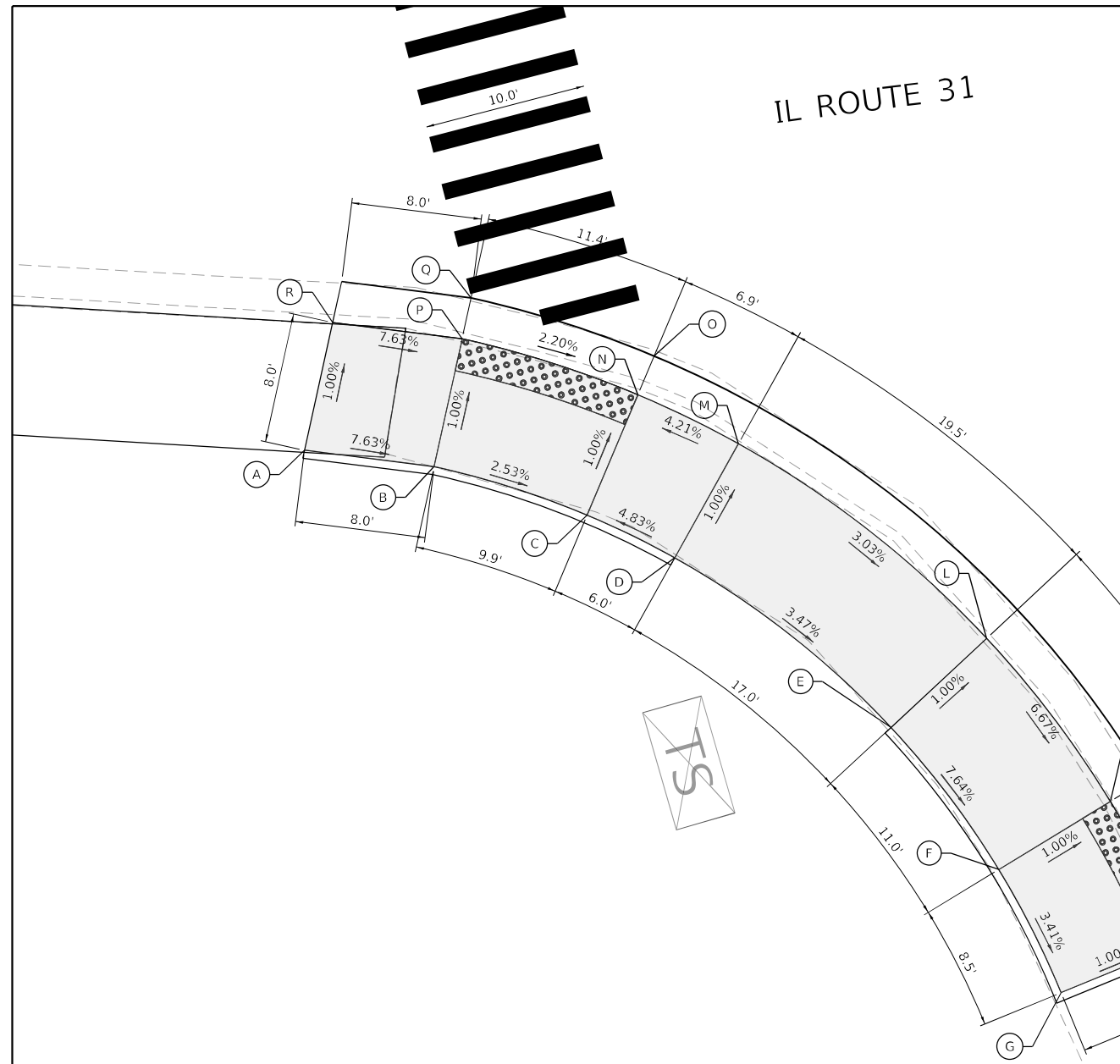
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS - NE & NW CORNERS
IL ROUTE 31 / BULL VALLEY ROAD**

SCALE: 1"=5' SHEET 19 OF 20 SHEETS STA. TO STA.

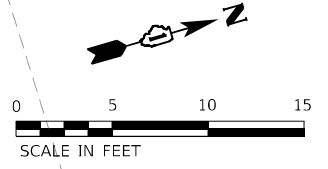
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	211
CONTRACT NO.			80C85	
ILLINOIS FED. AID PROJECT				

MODEL: Default
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LEGEND

- (XX.XX) EXISTING ELEVATION / SLOPE
- PROPOSED SIDE CURB
- PROPOSED ELEVATION / SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS



USER NAME = akshar.patel	DESIGNED - MJJ	REVISED -
PLOT SCALE = 10,0006' / in	DRAWN - MGT	REVISED -
PLOT DATE = 3/18/2026	CHECKED - JAC	REVISED -
	DATE - 09/30/2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS - NE & NW CORNERS
IL ROUTE 31 / BULL VALLEY ROAD

SCALE: 1"=5' SHEET 20 OF 20 SHEETS STA. TO STA.



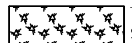
















F.A.P. RTE. 336A	SECTION 2025-2127-R,C,TS,SW	COUNTY McHENRY	TOTAL SHEETS 553	SHEET NO. 212
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

EROSION CONTROL GENERAL NOTES

1. THE CONTRACTOR SHALL STAKE THE CONSTRUCTION LIMITS, AND PRIOR TO COMMENCING CONSTRUCTION, SHALL BE APPROVED BY THE ENGINEER.
 - 1A. COST OF NIGHT WORK TO BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEMS BEING INSTALLED.
2. EROSION CONTROL ITEMS ARE CONSIDERED HIGH PRIORITY ITEMS IN THIS CONTRACT. THE CONTRACTOR WILL IMPLEMENT ALL PROVISIONS OF SPECIFICATION NECESSARY TO ENSURE THAT EROSION CONTROL ITEMS ARE CONSTRUCTED AND MAINTAINED IN A TIMELY MANNER. THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION CONTROL MEASURES PRIOR TO THE START OF CONSTRUCTION OPERATIONS WHICH WILL POTENTIALLY CREATE ERODIBLE CONDITIONS. PLACEMENT AND MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS WILL BE UTILIZED THROUGHOUT THE CONSTRUCTION LIMITS.
3. THIS PROJECT REQUIRES A US ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE DEPARTMENT. ALL CONDITIONS OF THE 404 PERMIT, FOUND IN THE SPECIAL PROVISIONS, MUST BE FOLLOWED. AS A CONDITION OF THIS PERMIT, THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) TO THE DEPARTMENT FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES (INCLUDING WORK WITHIN WETLANDS) CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAMWORK. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT AN IN-STREAM WORK PLAN (INCLUDING WORK WITHIN WETLANDS) WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED WITH THE EXCEPTION OF COFFERDAMS, WHICH WILL BE PAID FOR AS COFFERDAM (TYPE 1) (IN-STREAM /WETLAND WORK) WITH A BASIS OF PAYMENT OF EACH.
4. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR THE MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
5. TEMPORARY EROSION CONTROL MEASURES SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER. THE WORK SHALL BE COMPLETED IN ACCORDANCE WITH SECTION 280 OF THE STANDARD OF SPECIFICATIONS. CONTRACT SPECIAL PROVISIONS AND THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP).
6. ALL EROSION CONTROL MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION FOUND ON THE CONSTRUCTION TAB AT:
<https://idot.illinois.gov/transportation-system/environment/storm-water-management-program/erosion-and-sediment-control.html>
7. THE CONTRACTOR SHALL UTILIZE THE GENERAL MAINTENANCE GUIDELINES AS OUTLINED IN THE SWPPP TO ENSURE GOOD AND EFFECTIVE OPERATING CONDITION OF THE VEGETATION AND EROSION AND SEDIMENT CONTROL MEASURES. POSITIVE DRAINAGE MUST BE MAINTAINED THROUGHOUT JOBSITE.
8. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON SITE. ALL CHANGES TO THE SOIL EROSION AND SEDIMENT CONTROL PLAN SHALL BE NOTED ON THE SITE.
9. THE CONTRACTOR SHALL PERFORM ALL WORK AS DIRECTED BY THE ENGINEER AND AS SHOWN IN HIGHWAY STANDARD 280001.
10. THE EROSION CONTROL MEASURES SHOWN ARE A GRAPHICAL REPRESENTATION OF SUGGESTED MEASURES. DEVIATIONS FROM THIS PLAN ARE TO BE EXPECTED PENDING A JOBSITE INSPECTION BETWEEN THE CONTRACTOR AND THE DEPARTMENT.
11. THE CONTRACTOR WILL BE REQUIRED TO IMPLEMENT AND MAINTAIN SEDIMENT CONTROL MEASURES PRIOR TO STRIPPING EXISTING VEGETATION.
12. THE CONTRACTOR SHALL INSPECT ALL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EACH RAINFALL, 0.5 INCHES OR GREATER IN A 24-HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY, DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED AFTER EACH SIGNIFICANT SNOWMELT.
13. ANY AREA WHERE THERE IS NO PROPOSED GRADING, THE EXISTING GROUND COVER SHALL REMAIN.
14. TEMPORARY STOCKPILE LOCATIONS SHALL BE APPROVED BY THE ENGINEER AND WILL REQUIRE SILT FENCE AND TEMPORARY SEEDING AND ALL OTHER MEASURES REQUIRED TO THE SATISFACTION OF THE ENGINEER. THE SILT FENCE AND TEMPORARY SEEDING SHALL BE PAID AS 28000400 - PERIMETER EROSION BARRIER AND 28000250 - TEMPORARY EROSION CONTROL SEEDING, RESPECTIVELY.
15. THE CONTRACTOR SHALL INSTALL AND MAINTAIN INLET FILTERS AT ALL EXISTING INLETS ADJACENT TO THE EDGE OF PAVEMENT PRIOR TO THE START OF PRE-STAGE WORK. THE INLET FILTERS SHALL BE MAINTAINED AT EACH SUBSEQUENT STAGE UNTIL NO LONGER REQUIRED OR AS DIRECTED BY THE ENGINEER.
16. THE CONTRACTOR SHALL IMMEDIATELY INSTALL AND MAINTAIN INLET FILTERS AT ALL NEW OPEN LID INLETS AND DRAINAGE STRUCTURES. THE INLET FILTERS SHALL BE MAINTAINED AT EACH SUBSEQUENT STAGE UNTIL COMPLETION OF STAGING OR UNTIL NO LONGER REQUIRED.

17. DURING CONSTRUCTION OPERATIONS, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS, OR DRAINAGE STRUCTURES, OBSTRUCTING THE NATURAL FLOW OF WATER, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. THIS INCLUDES ANY MATERIAL WITHIN THE FLOW LINE OF DRAINAGE STRUCTURES. PRIOR TO THE ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES MUST BE FREE OF DIRT AND DEBRIS. ALTHOUGH THIS WORK WILL NOT BE PAID FOR SEPARATELY, IT SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT.
18. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL DRAINAGE STRUCTURES SHALL BE FREE FROM DIRT AND DEBRIS. THE CONTRACTOR'S FAILURE TO PROVIDE THE ABOVE WILL PRECLUDE ANY POSSIBLE ADDED COMPENSATION REQUESTED DUE TO DELAYS OR UNSUITABLE MATERIAL CREATED AS A RESULT THEREOF.
19. THE CONTRACTOR SHOULD PROVIDE THE RESIDENT ENGINEER WITH A PLAN TO ENSURE THAT A STABILIZED FLOW LINE WILL BE PROVIDED DURING STORM SEWER CONSTRUCTION. THE USE OF A STABILIZED FLOW LINE BETWEEN INSTALLED STORM SEWER AND OPEN DISTURBANCE WILL REDUCE THE POTENTIAL FOR THE OFFSITE DISCHARGE OF SEDIMENT-BEARING WATERS, ESPECIALLY WHEN RAIN IS FORECASTED, SO THAT FLOW WILL NOT ERODE. LACK OF APPROVED PLAN OR FAILURE TO COMPLY WILL RESULT IN AN ESC DEFICIENCY DEDUCTION.
20. LOCATIONS OF THE STABILIZED CONSTRUCTION ENTRANCE/EXISTS SHALL BE DETERMINED BY THE CONTRACTOR AND APPROVED BY THE ENGINEER. THE INSTALLATION OF THE CONSTRUCTION ENTRANCE/EXISTS SHALL BE IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL OR AS DIRECTED BY THE ENGINEER. COST OF THESE ENTRANCES ARE INCLUDED IN THE COST OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE PROVIDED.
21. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INSTALLED ON ALL AREAS DISTURBED DURING EACH STAGE OF CONSTRUCTION PRIOR TO SWITCHING TRAFFIC TO BEGIN THE SUBSEQUENT STAGE. ALSO, ALL EROSION CONTROL MEASURES PLACED DURING CONSTRUCTION SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL COMPLETION OF THE FINAL STAGE OF CONSTRUCTION OR NO LONGER REQUIRED.
22. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OR MORE. IF SEEDING DATES ARE WITHIN THE PERMANENT SEEDING DATES, PERMANENT STABILIZATION SHALL BE INSTALLED PRIOR TO STAGE CHANGES.
23. THE CONTRACTOR WILL BE NOTIFIED BY THE ENGINEER WHEN AND WHERE TO USE THE TEMPORARY SEEDING AND STABILIZATION ITEMS.
24. FOR PERMANENT EROSION CONTROL, THE CONTRACTOR SHALL PLACE TOPSOIL SO THAT IT HAS A BOND WITH THE EXISTING SURFACE TO WHICH IT IS APPLIED. IT SHALL BE DISKED OR RAKED OR OTHERWISE BROKEN UP IF NECESSARY TO PROVIDE SUCH BOND. EXISTING DRAINAGE PATTERNS SHALL BE MAINTAINED AND EXISTING STRUCTURE RIMS SHALL NOT BE COVERED. EXISTING VEGETATION SHALL NOT BE COVERED.
25. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.
26. THE CONTRACTOR SHALL COORDINATE OVERLAPPING WORK AREAS, SEQUENCING OF CONSTRUCTION, AND THE PLACEMENT AND MAINTENANCE OF EROSION CONTROL MEASURES WITH ADJACENT CONTRACT(S) AND AT THE DIRECTION OF THE ENGINEER.
27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THE DRAINAGE OF THE ROADWAY DURING ALL STAGES OF CONSTRUCTION.
28. ALL TEMPORARY CONNECTIONS FOR TEMPORARY PIPE CULVERTS INTO EXISTING/PROPOSED STRUCTURES/PIPES SHALL BE CONSIDERED INCLUDED IN THE UNIT PRICE FOR PIPE CULVERT OF THE CLASS, TYPE, SIZE (TEMPORARY).
29. ALL RIM AND INVERTS FOR TEMPORARY DRAINAGE STRUCTURES ARE ESTIMATES AND NEED TO BE FIELD VERIFIED, NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO INSTALLATION. NO EXTRA COMPENSATION WILL BE PROVIDED FOR ANY DISCREPANCIES DETERMINED IN THE FIELD.
30. THE CONTRACTOR SHALL ATTACH A MINIMUM OF 2 ALUMINUM SIGNS WITH THE FOLLOWING TEXT: PROTECTED WETLAND NO INTRUSION. THE SIGN(S) SHALL BE ATTACHED TO THE TEMPORARY FENCE BY A METHOD APPROVED BY THE ENGINEER. THE SIGNS WILL BE PROVIDED BY THE DEPARTMENT AND SHALL BE PICKED UP BY THE CONTRACTOR FROM THE DISTRICT ONE ROADSIDE DEVELOPMENT LANDSCAPE ARCHITECT IN SCHAUMBURG, ILLINOIS. SCHEDULING THE PICKUP OF THE SIGNS CAN BE ARRANGED BY CONTACTING THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT AT (847)705-4171. WHEN WORK HAS BEEN COMPLETED, UNDAMAGED OR REPLACED SIGNS SHALL BE RETURNED TO THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT. THE COST OF PICKING UP AND RETURNING THE SIGNS WILL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY FENCE.
31. THE DEPARTMENT HAS NOT OBTAINED ANY PERMITS FOR OFFSITE BORROW OR WASTE/USE(BWU) AREAS. PRIOR TO WORKING IN BWU AREAS, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING PERMITS IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER PERMITS. IN ADDITION TO THE BORROW REVIEW (BDE 2289) AND USE/WASTE REVIEW (BDE 2290) SUBMITTALS, THE CONTRACTOR WILL NEED TO SUBMIT AN EROSION AND SEDIMENT CONTROL (ESC) PLAN FOR EVERY BWU SITE TO THE DEPARTMENT FOR ACCEPTANCE. GUIDELINES FOR ACCEPTABLE BWU PRACTICES CAN BE FOUND IN THE SWPPP. THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE AND IMPLEMENT ESC PLANS WILL NOT BE PAID SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

EROSION AND SEDIMENT CONTROL LEGEND

-  PERIMETER EROSION BARRIER*
-  TEMPORARY DITCH CHECK
-  TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*
-  INLET FILTER
-  SEDIMENT CONTROL, STABILIZED CONSTRUCTION ENTRANCE
-  TEMPORARY DITCH
-  DITCH FLOW
-  DEWATERING BASIN
-  ROCK DITCH CHECK
-  SEDIMENT TRAP
-  EROSION CONTROL BLANKET WITH TEMPORARY EROSION CONTROL SEEDING
-  WOUS (IMPACTED)
-  WETLAND (IMPACTED)
-  TEMPORARY PAVEMENT (SEE SUGGESTED MAINTENANCE OF TRAFFIC PLANS)
-  WORK ZONE
-  OVERLAND FLOW
-  WETLAND INTRUSION AREA
-  *WETLAND - NO INTRUSION* SIGN #9X3*
-  INLET PROTECTION
-  - xxx - xxx TEMPORARY FENCE

* SHADED PATTERNS AND LINSTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE

32. ALL REFERENCES TO HEAVY DUTY EROSION CONTROL BLANKET IN THE PLAN SHALL NOW BE REFERRED TO AS TEMPORARY EROSION CONTROL BLANKET.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL
GENERAL NOTES AND LEGEND**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	213
CONTRACT NO.			80C85	
ILLINOIS		FED. AID PROJECT		

NOTES:

1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
5. STORM SEWER TO BE FULLY CONSTRUCTED ACROSS ENTIRE ROADWAY, USING A SINGLE LANE NIGHTTIME CLOSURE.

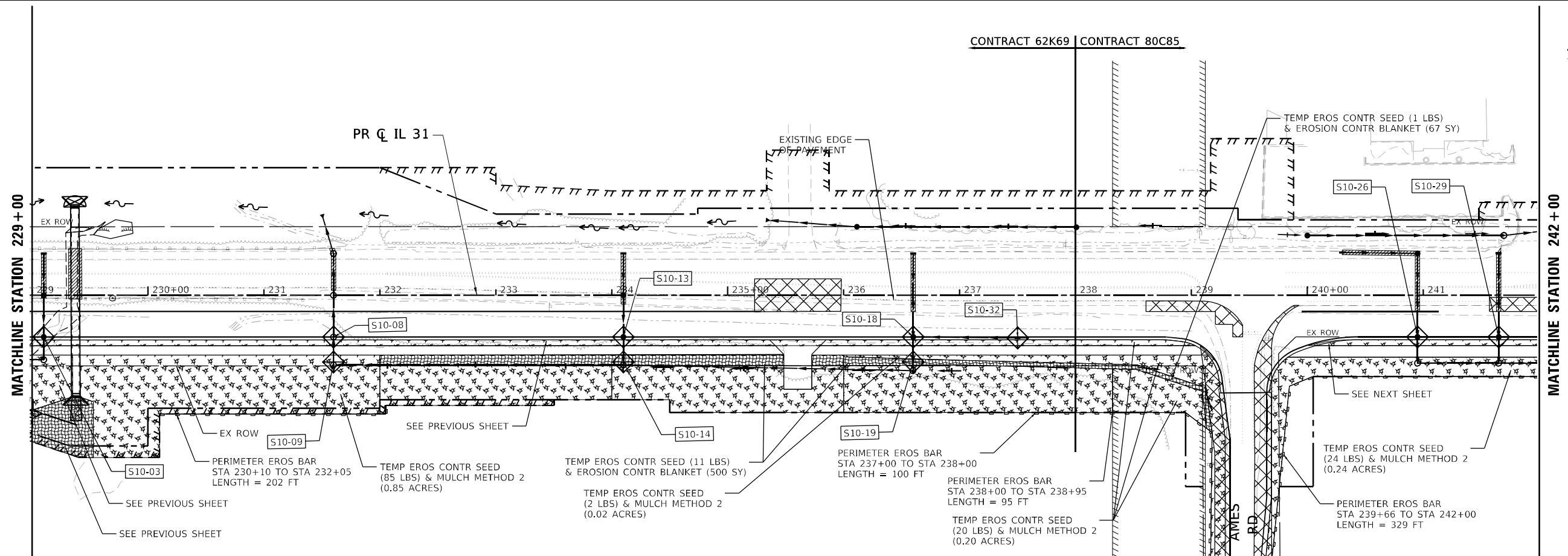
4. WHEN TEMPORARY OR PERMANENT STORM SEWER IS PLACED BELOW EXISTING PAVEMENT OR TEMPORARY PAVEMENT, THE EXISTING OR TEMPORARY PAVEMENT WITHIN THE LIMITS OF THE TRENCHING OR OPERATION SHALL BE REMOVED AND REPLACED, AND PAID FOR AS "CLASS D PATCHES, TYPE III 12 INCH".
5. PAVEMENT PATCHING FOR TEMPORARY STORM SEWER WORK SHALL BE PERFORMED DURING THE NIGHT SHIFT.

6. PER THE CONTRACTOR'S DISCRETION, EXISTING DRIVEWAY CULVERTS THAT ARE COVERED/FILLED DUE TO TEMPORARY GRADING OPERATIONS CAN REMAIN IN PLACE DURING PRE-STAGE. IF LEFT IN PLACE THE CULVERT SHALL BE PLUGGED/FILLED PRIOR TO BEGINNING GRADING OPERATIONS. NO COMPENSATION WILL BE PROVIDED FOR THIS WORK. REMOVAL OF THE CULVERTS CAN TAKE PLACE IN THE CORRESPONDING STAGE ACTIVITY. NO EXISTING DRIVEWAY CULVERT SHALL BE ABANDONED IN PLACE.

LEGEND

	PERIMETER EROSION BARRIER*		TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*		HEAVY DUTY EROSION CONTROL BLANKET
	TEMPORARY FENCE		INLET FILTER		INLET PROTECTION
	TEMPORARY DITCH CHECK		SEDIMENT TRAP		DITCH FLOW
	EROSION CONTROL BLANKET		CLASS D PATCHES, TYPE II, 12 INCH		TEMPORARY RIPRAP

*SHADED PATTERNS AND LINESYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE



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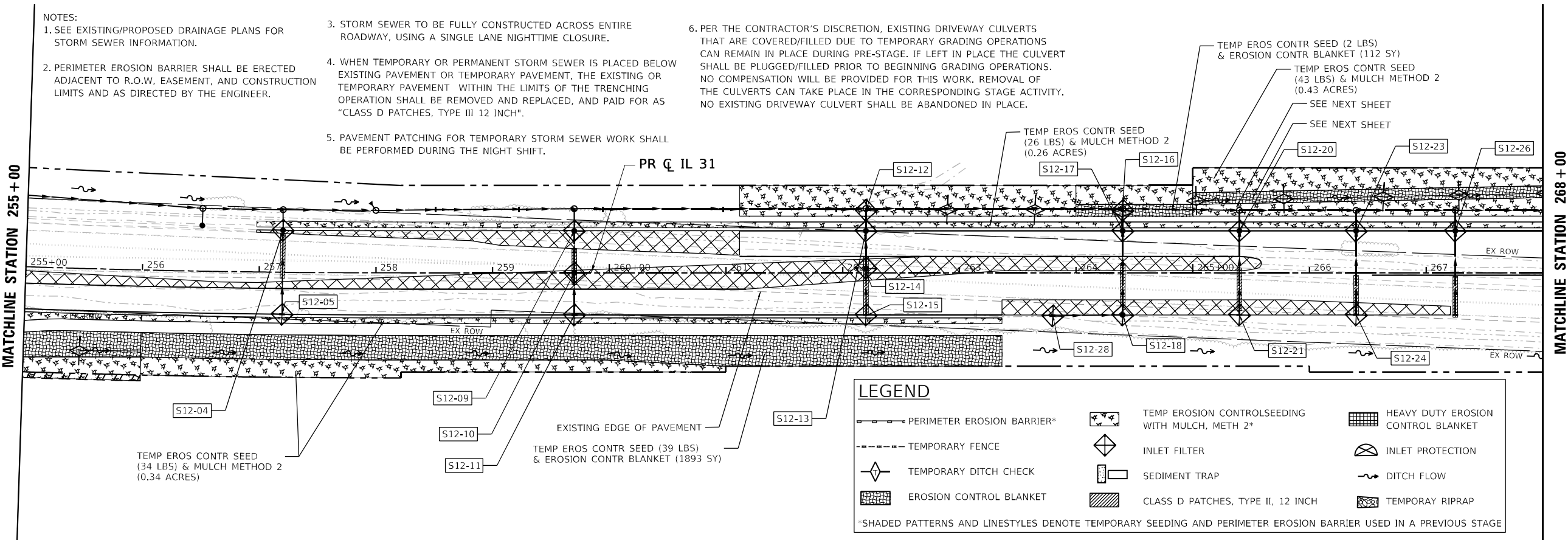
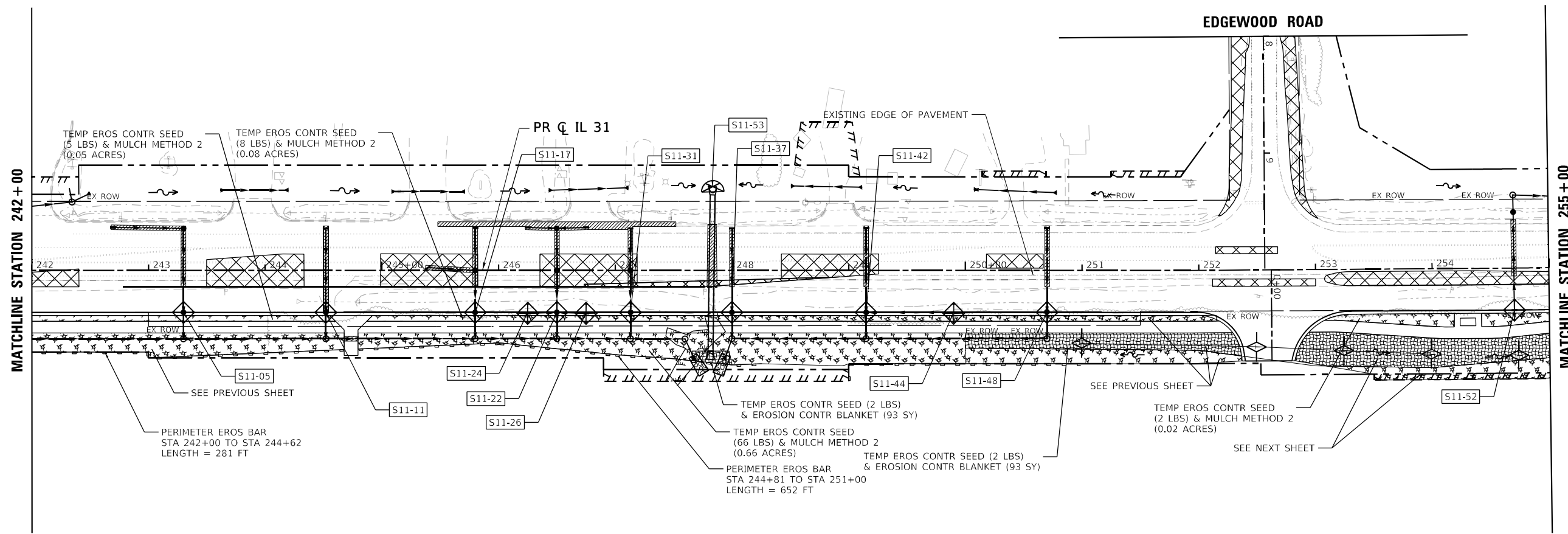
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL STAGE 1 PLAN
ILLINOIS ROUTE 31**

SCALE: 1"=50' SHEET 1 OF 9 SHEETS STA. 229+00 TO STA. 242+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	214
			CONTRACT NO. 80C85	
ILLINOIS FED. AID PROJECT				



- NOTES:
1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
 2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
 3. STORM SEWER TO BE FULLY CONSTRUCTED ACROSS ENTIRE ROADWAY, USING A SINGLE LANE NIGHTTIME CLOSURE.
 4. WHEN TEMPORARY OR PERMANENT STORM SEWER IS PLACED BELOW EXISTING PAVEMENT OR TEMPORARY PAVEMENT, THE EXISTING OR TEMPORARY PAVEMENT WITHIN THE LIMITS OF THE TRENCHING OPERATION SHALL BE REMOVED AND REPLACED, AND PAID FOR AS "CLASS D PATCHES, TYPE III 12 INCH".
 5. PAVEMENT PATCHING FOR TEMPORARY STORM SEWER WORK SHALL BE PERFORMED DURING THE NIGHT SHIFT.

6. PER THE CONTRACTOR'S DISCRETION, EXISTING DRIVEWAY CULVERTS THAT ARE COVERED/FILLED DUE TO TEMPORARY GRADING OPERATIONS CAN REMAIN IN PLACE DURING PRE-STAGE. IF LEFT IN PLACE THE CULVERT SHALL BE PLUGGED/FILLED PRIOR TO BEGINNING GRADING OPERATIONS. NO COMPENSATION WILL BE PROVIDED FOR THIS WORK. REMOVAL OF THE CULVERTS CAN TAKE PLACE IN THE CORRESPONDING STAGE ACTIVITY. NO EXISTING DRIVEWAY CULVERT SHALL BE ABANDONED IN PLACE.

LEGEND

	PERIMETER EROSION BARRIER*		TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*		HEAVY DUTY EROSION CONTROL BLANKET
	TEMPORARY FENCE		INLET FILTER		INLET PROTECTION
	TEMPORARY DITCH CHECK		SEDIMENT TRAP		DITCH FLOW
	EROSION CONTROL BLANKET		CLASS D PATCHES, TYPE II, 12 INCH		TEMPORARY RIPRAP

*SHADED PATTERNS AND LIFESTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE

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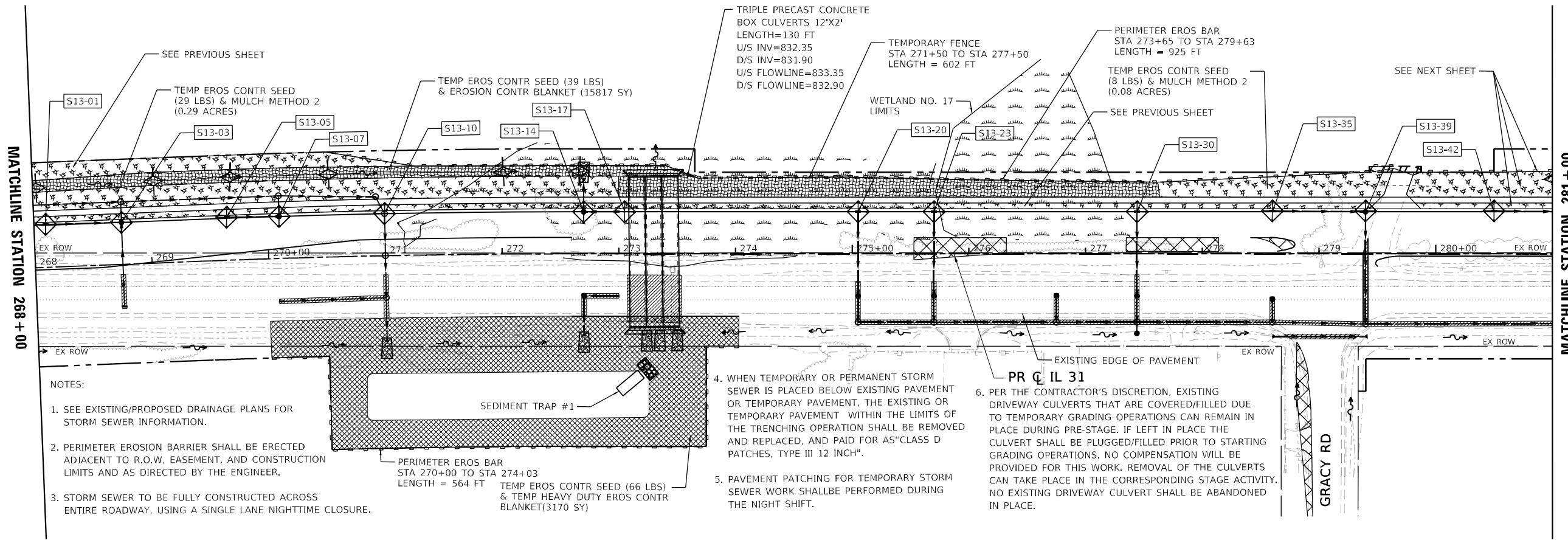


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL STAGE 1 PLAN			
ILLINOIS ROUTE 31			
SCALE: 1"=50'	SHEET 2	OF 9 SHEETS	STA. 242+00 TO STA. 268+00

F.A.P. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	215
			CONTRACT NO. 80C85	
		ILLINOIS FED. AID PROJECT		

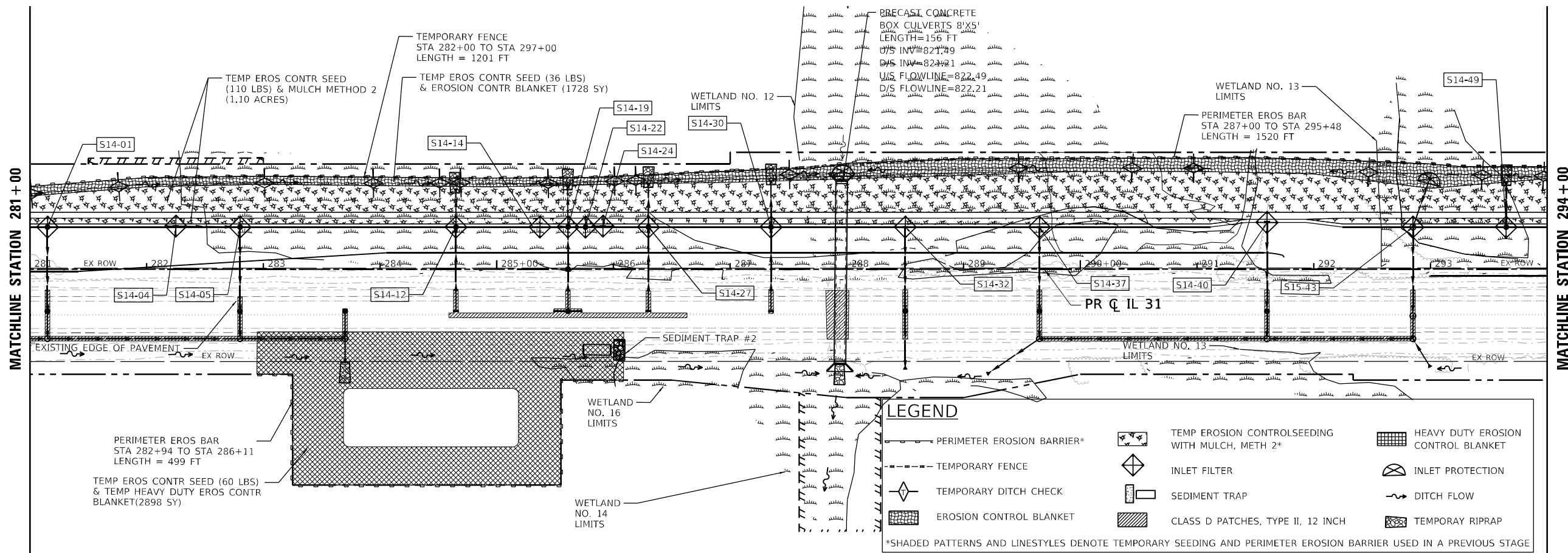


NOTES:

1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
3. STORM SEWER TO BE FULLY CONSTRUCTED ACROSS ENTIRE ROADWAY, USING A SINGLE LANE NIGHTTIME CLOSURE.

4. WHEN TEMPORARY OR PERMANENT STORM SEWER IS PLACED BELOW EXISTING PAVEMENT OR TEMPORARY PAVEMENT WITHIN THE LIMITS OF THE TRENCHING OPERATION SHALL BE REMOVED AND REPLACED, AND PAID FOR AS CLASS D PATCHES, TYPE III 12 INCH".
5. PAVEMENT PATCHING FOR TEMPORARY STORM SEWER WORK SHALL BE PERFORMED DURING THE NIGHT SHIFT.

6. PER THE CONTRACTOR'S DISCRETION, EXISTING DRIVEWAY CULVERTS THAT ARE COVERED/FILLED DUE TO TEMPORARY GRADING OPERATIONS CAN REMAIN IN PLACE DURING PRE-STAGE. IF LEFT IN PLACE THE CULVERT SHALL BE PLUGGED/FILLED PRIOR TO STARTING GRADING OPERATIONS. NO COMPENSATION WILL BE PROVIDED FOR THIS WORK. REMOVAL OF THE CULVERTS CAN TAKE PLACE IN THE CORRESPONDING STAGE ACTIVITY. NO EXISTING DRIVEWAY CULVERT SHALL BE ABANDONED IN PLACE.



LEGEND

- PERIMETER EROSION BARRIER*
- TEMPORARY FENCE
- TEMPORARY DITCH CHECK
- EROSION CONTROL BLANKET
- TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*
- INLET FILTER
- SEDIMENT TRAP
- CLASS D PATCHES, TYPE II, 12 INCH
- HEAVY DUTY EROSION CONTROL BLANKET
- INLET PROTECTION
- DITCH FLOW
- TEMPORARY RIPRAP

*SHADED PATTERNS AND LINSTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE

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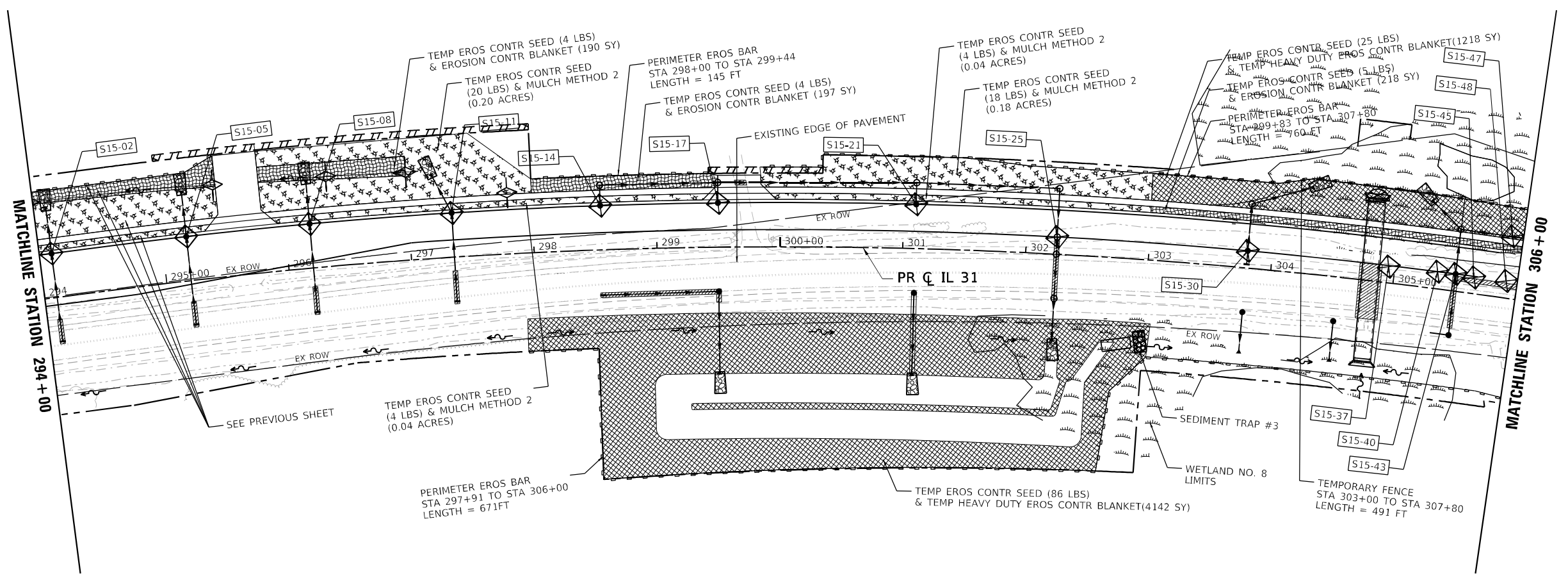


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL STAGE 1 PLAN		
ILLINOIS ROUTE 31		
SCALE: 1"=50'	SHEET 3 OF 9 SHEETS	STA. 268+00 TO STA. 294+00

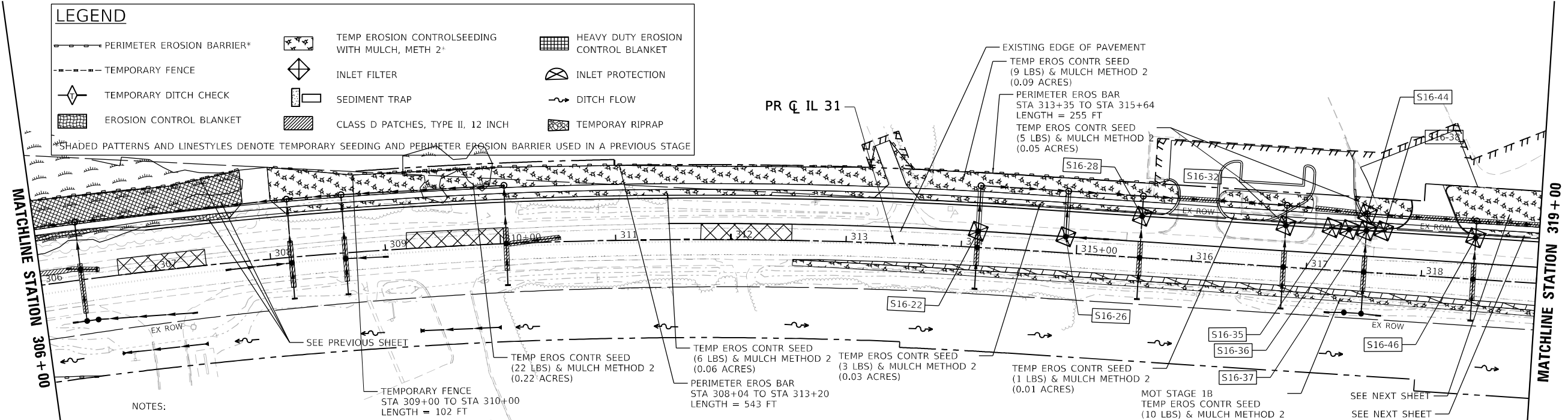
F.A.P. RTE. 336A	SECTION 2025-2127-R,C,TS,SW	COUNTY McHENRY	TOTAL SHEETS 553	SHEET NO. 216
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	



LEGEND

PERIMETER EROSION BARRIER*	TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*	HEAVY DUTY EROSION CONTROL BLANKET
TEMPORARY FENCE	INLET FILTER	INLET PROTECTION
TEMPORARY DITCH CHECK	SEDIMENT TRAP	DITCH FLOW
EROSION CONTROL BLANKET	CLASS D PATCHES, TYPE II, 12 INCH	TEMPORARY RIPRAP

*SHADED PATTERNS AND LIFESTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE



- NOTES:
- SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
 - PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
 - STORM SEWER TO BE FULLY CONSTRUCTED ACROSS ENTIRE ROADWAY, USING A SINGLE LANE NIGHTTIME CLOSURE.
 - PER THE CONTRACTOR'S DISCRETION, EXISTING DRIVEWAY CULVERTS THAT ARE COVERED/FILLED DUE TO TEMPORARY GRADING OPERATIONS CAN REMAIN IN PLACE DURING PRE-STAGE. IF LEFT IN PLACE THE CULVERT SHALL BE PLUGGED/FILLED PRIOR TO BEGINNING GRADING OPERATIONS. NO COMPENSATION WILL BE PROVIDED FOR THIS WORK. REMOVAL OF THE CULVERTS CAN TAKE PLACE IN THE CORRESPONDING STAGE ACTIVITY. NO EXISTING DRIVEWAY CULVERT SHALL BE ABANDONED IN PLACE.
 - PAVEMENT PATCHING FOR TEMPORARY STORM SEWER WORK SHALL BE PERFORMED DURING THE NIGHT SHIFT.
 - PER THE CONTRACTOR'S DISCRETION, EXISTING DRIVEWAY CULVERTS THAT ARE COVERED/FILLED DUE TO TEMPORARY GRADING OPERATIONS CAN REMAIN IN PLACE DURING PRE-STAGE. IF LEFT IN PLACE THE CULVERT SHALL BE PLUGGED/FILLED PRIOR TO STARTING GRADING OPERATIONS. NO COMPENSATION WILL BE PROVIDED FOR THIS WORK. REMOVAL OF THE CULVERTS CAN TAKE PLACE IN THE CORRESPONDING STAGE ACTIVITY. NO EXISTING DRIVEWAY CULVERT SHALL BE ABANDONED IN PLACE.
 - WHEN TEMPORARY OR PERMANENT STORM SEWER IS PLACED BELOW EXISTING PAVEMENT OR TEMPORARY PAVEMENT, THE EXISTING OR TEMPORARY PAVEMENT WITHIN THE LIMITS OF THE TRENCHING OPERATION SHALL BE REMOVED AND REPLACED, AND PAID FOR AS "CLASS D PATCHES, TYPE III 12 INCH".

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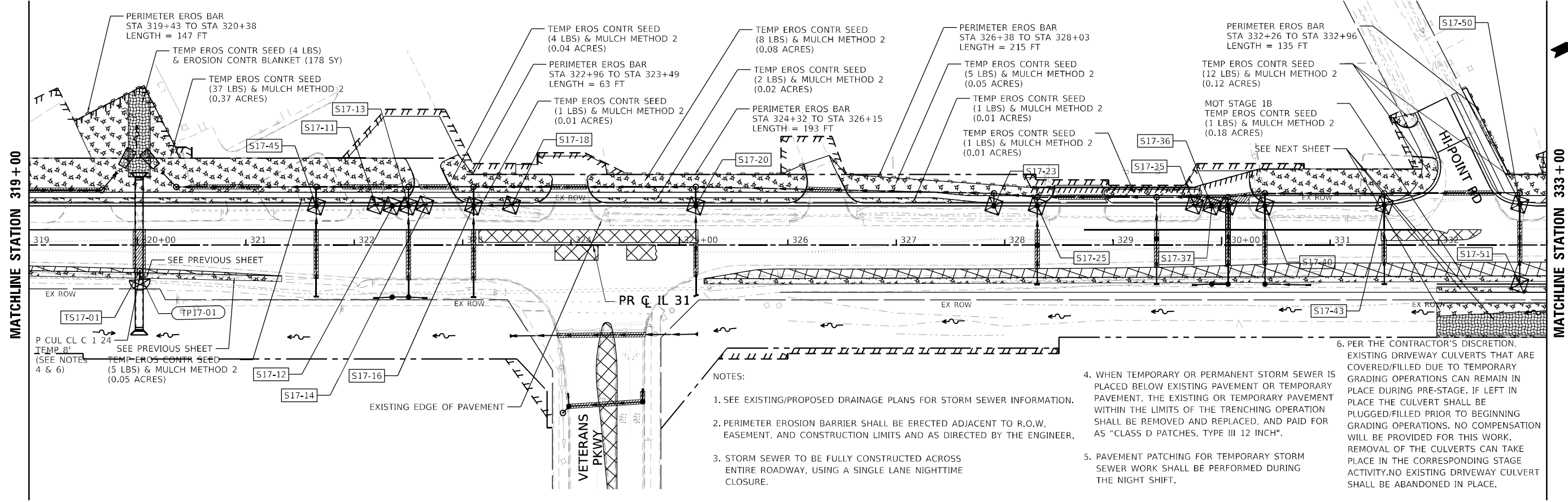


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

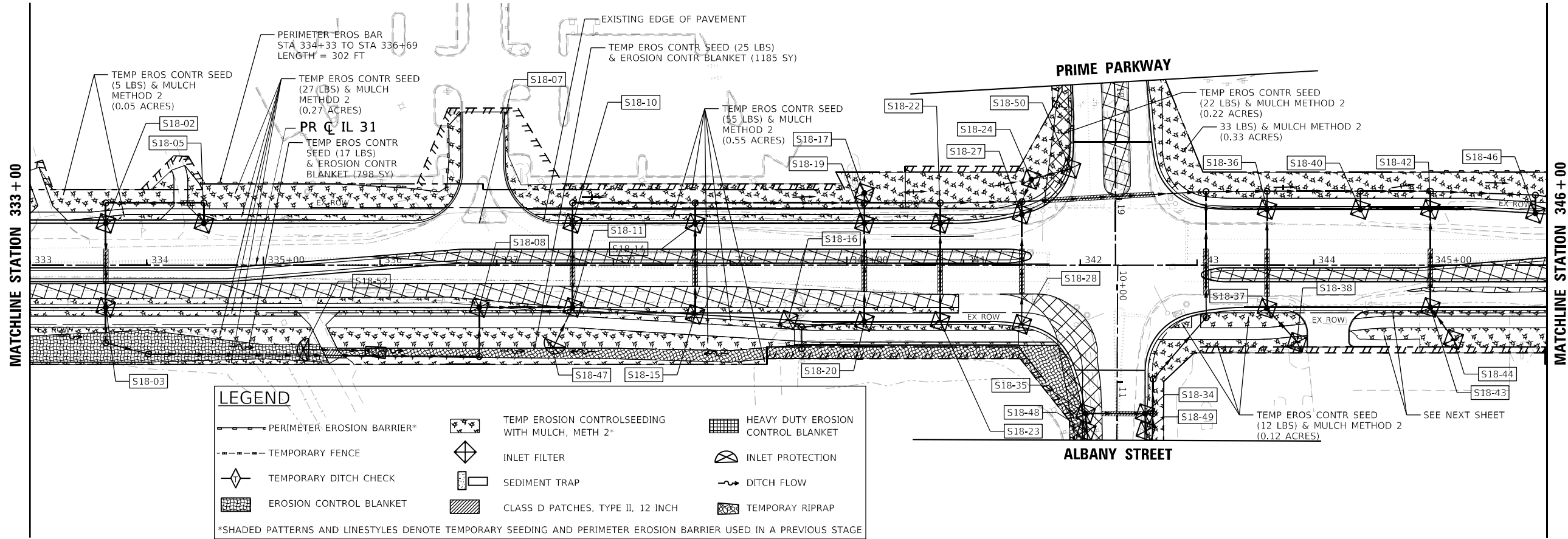
EROSION AND SEDIMENT CONTROL STAGE 1 PLAN			
ILLINOIS ROUTE 31			
SCALE: 1"=50'	SHEET 4	OF 9 SHEETS	STA. 294+00 TO STA. 319+00

F.A.P. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	217
			CONTRACT NO.	80C85
ILLINOIS FED. AID PROJECT				



NOTES:

1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
3. STORM SEWER TO BE FULLY CONSTRUCTED ACROSS ENTIRE ROADWAY, USING A SINGLE LANE NIGHTTIME CLOSURE.
4. WHEN TEMPORARY OR PERMANENT STORM SEWER IS PLACED BELOW EXISTING PAVEMENT OR TEMPORARY PAVEMENT, THE EXISTING OR TEMPORARY PAVEMENT WITHIN THE LIMITS OF THE TRENCHING OPERATION SHALL BE REMOVED AND REPLACED, AND PAID FOR AS "CLASS D PATCHES, TYPE III 12 INCH".
5. PAVEMENT PATCHING FOR TEMPORARY STORM SEWER WORK SHALL BE PERFORMED DURING THE NIGHT SHIFT.
6. PER THE CONTRACTOR'S DISCRETION, EXISTING DRIVEWAY CULVERTS THAT ARE COVERED/FILLED DUE TO TEMPORARY GRADING OPERATIONS CAN REMAIN IN PLACE DURING PRE-STAGE. IF LEFT IN PLACE THE CULVERT SHALL BE PLUGGED/FILLED PRIOR TO BEGINNING GRADING OPERATIONS. NO COMPENSATION WILL BE PROVIDED FOR THIS WORK. REMOVAL OF THE CULVERTS CAN TAKE PLACE IN THE CORRESPONDING STAGE ACTIVITY. NO EXISTING DRIVEWAY CULVERT SHALL BE ABANDONED IN PLACE.



LEGEND

- PERIMETER EROSION BARRIER*
- - - - - TEMPORARY FENCE
- ◇ TEMPORARY DITCH CHECK
- ▨ EROSION CONTROL BLANKET
- ▨ TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*
- ◇ INLET FILTER
- ▨ SEDIMENT TRAP
- ▨ CLASS D PATCHES, TYPE II, 12 INCH
- ▨ HEAVY DUTY EROSION CONTROL BLANKET
- ▨ INLET PROTECTION
- ~ DITCH FLOW
- ▨ TEMPORARY RIPRAP

*SHADED PATTERNS AND LINESYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE

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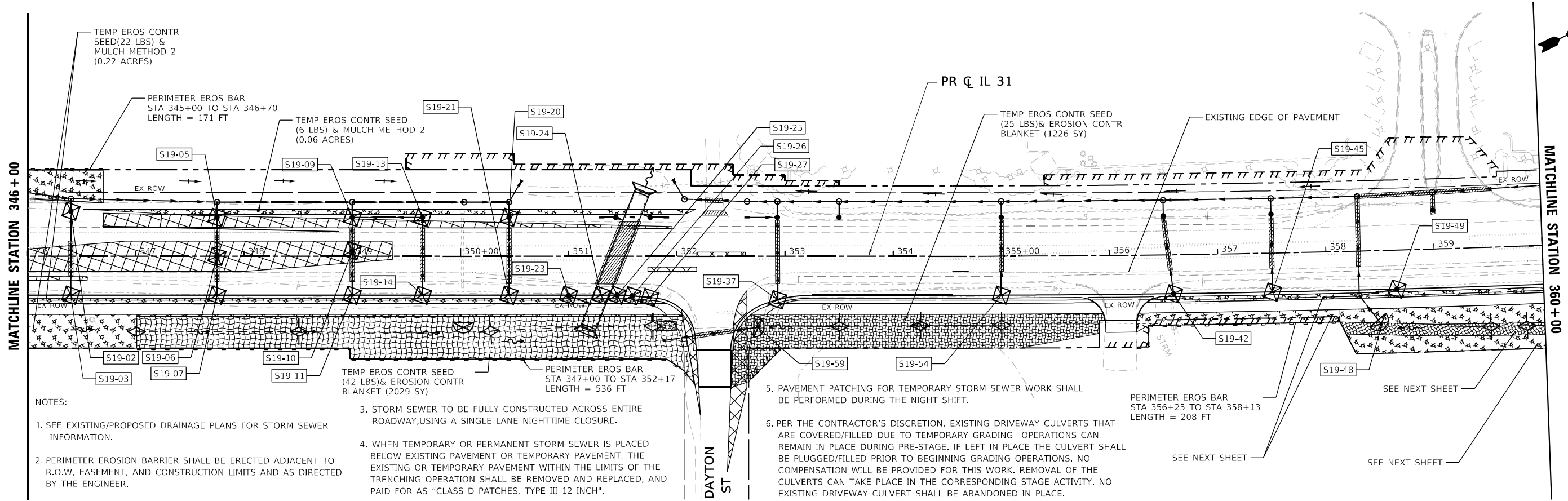
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	DATE - 1/9/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 1 PLAN
ILLINOIS ROUTE 31

SCALE: 1"=50' SHEET 5 OF 9 SHEETS STA. 319+00 TO STA. 346+00

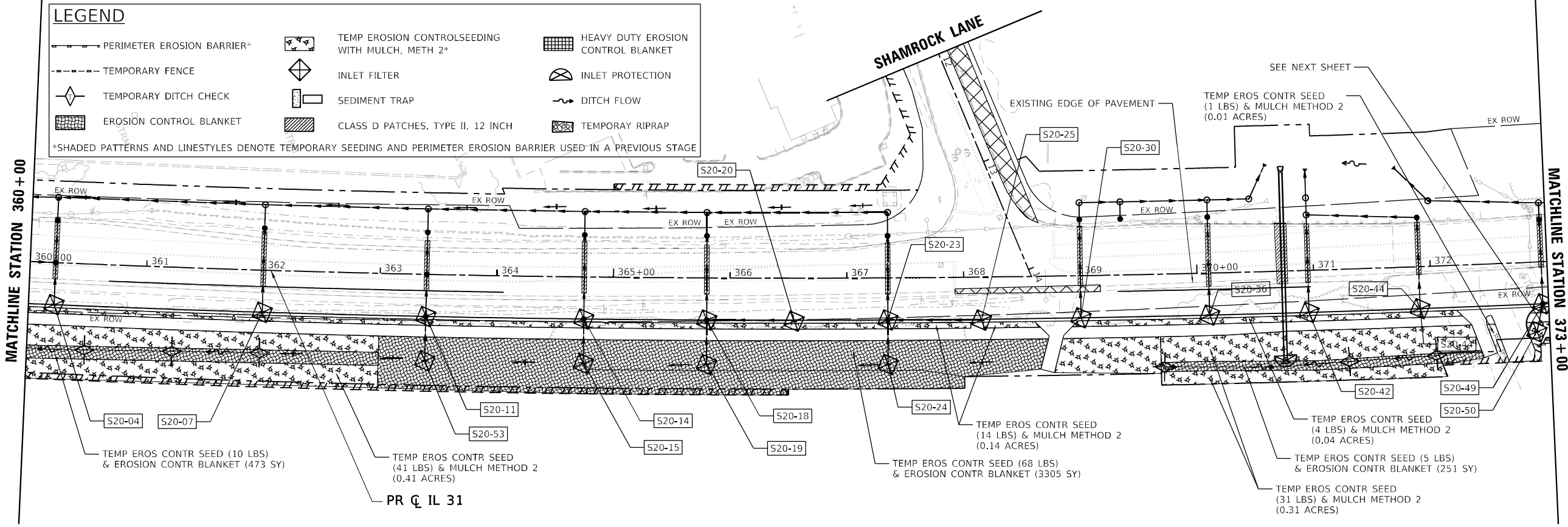
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	218
			CONTRACT NO. 80C85	
		ILLINOIS FED. AID PROJECT		



LEGEND

PERIMETER EROSION BARRIER*	TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*	HEAVY DUTY EROSION CONTROL BLANKET
TEMPORARY FENCE	INLET FILTER	INLET PROTECTION
TEMPORARY DITCH CHECK	SEDIMENT TRAP	DITCH FLOW
EROSION CONTROL BLANKET	CLASS D PATCHES, TYPE II, 12 INCH	TEMPORARY RIPRAP

*SHADED PATTERNS AND LINESYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE



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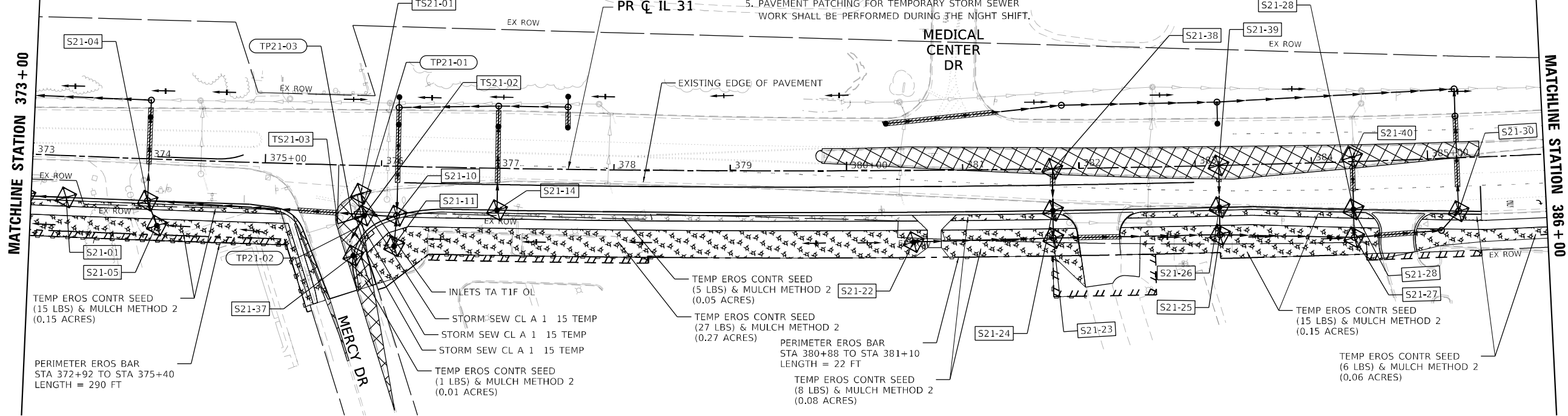
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 1 PLAN ILLINOIS ROUTE 31		
SCALE: 1"=50'	SHEET 6 OF 9 SHEETS	STA. 346+00 TO STA. 373+00

F.A.P. RTE. 336A	SECTION 2025-2127-R,C,TS,SW	COUNTY McHENRY	TOTAL SHEETS 553	SHEET NO. 219
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80C85	

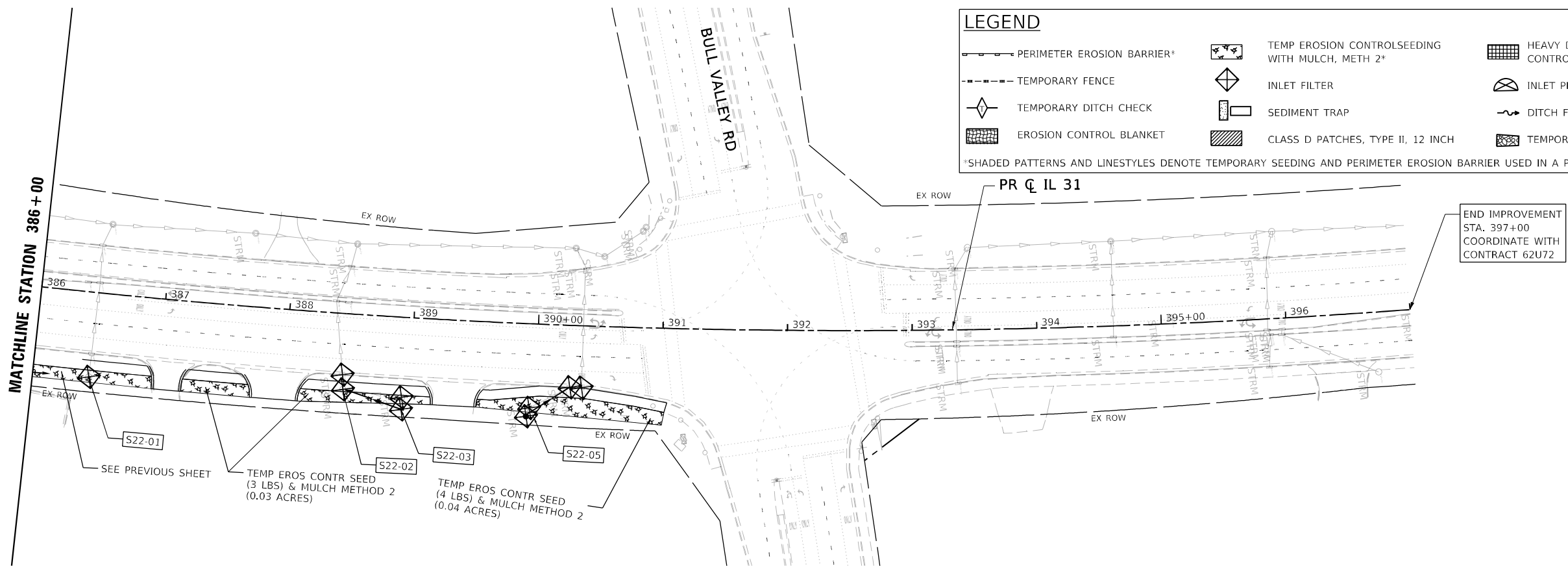
NOTES:

- SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
- PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
- STORM SEWER TO BE FULLY CONSTRUCTED ACROSS ENTIRE ROADWAY, USING A SINGLE LANE NIGHTTIME CLOSURE.
- WHEN TEMPORARY OR PERMANENT STORM SEWER IS PLACED BELOW EXISTING PAVEMENT OR TEMPORARY PAVEMENT, THE EXISTING OR TEMPORARY PAVEMENT WITHIN THE LIMITS OF THE TRENCHING OPERATION SHALL BE REMOVED AND REPLACED, AND PAID FOR AS "CLASS D PATCHES, TYPE III 12 INCH".
- PAVEMENT PATCHING FOR TEMPORARY STORM SEWER WORK SHALL BE PERFORMED DURING THE NIGHT SHIFT.
- PER THE CONTRACTOR'S DISCRETION, EXISTING DRIVEWAY CULVERTS THAT ARE COVERED/FILLED DUE TO TEMPORARY GRADING OPERATIONS CAN REMAIN IN PLACE DURING PRE-STAGE. IF LEFT IN PLACE THE CULVERT SHALL BE PLUGGED/FILLED PRIOR TO BEGINNING GRADING OPERATIONS. NO COMPENSATION WILL BE PROVIDED FOR THIS WORK. REMOVAL OF THE CULVERTS CAN TAKE PLACE IN THE CORRESPONDING STAGE ACTIVITY. NO EXISTING DRIVEWAY CULVERT SHALL BE ABANDONED IN PLACE.



LEGEND

- PERIMETER EROSION BARRIER*
 - TEMPORARY FENCE
 - TEMPORARY DITCH CHECK
 - EROSION CONTROL BLANKET
 - TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*
 - INLET FILTER
 - SEDIMENT TRAP
 - CLASS D PATCHES, TYPE II, 12 INCH
 - HEAVY DUTY EROSION CONTROL BLANKET
 - INLET PROTECTION
 - DITCH FLOW
 - TEMPORARY RIPRAP
- *SHADED PATTERNS AND LIFESTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE



END IMPROVEMENT STA. 397+00
COORDINATE WITH CONTRACT 62U72

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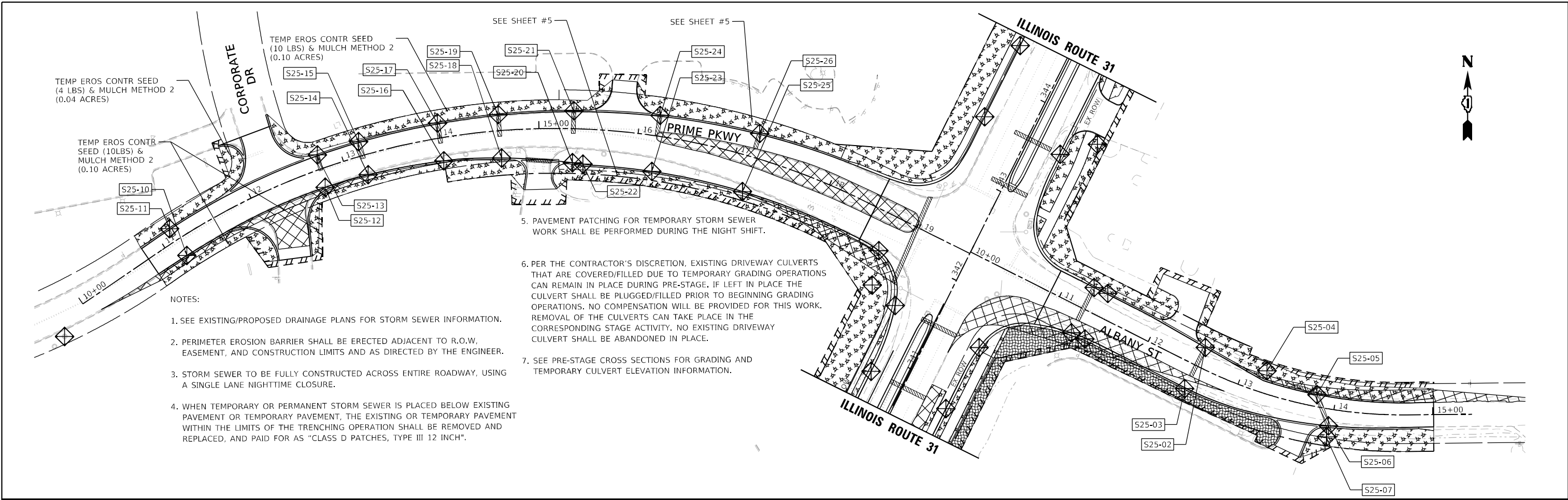


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	DATE - 1/9/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 1 PLAN
ILLINOIS ROUTE 31
SCALE: 1"=50' SHEET 7 OF 9 SHEETS STA. 373+00 TO STA. 397+00

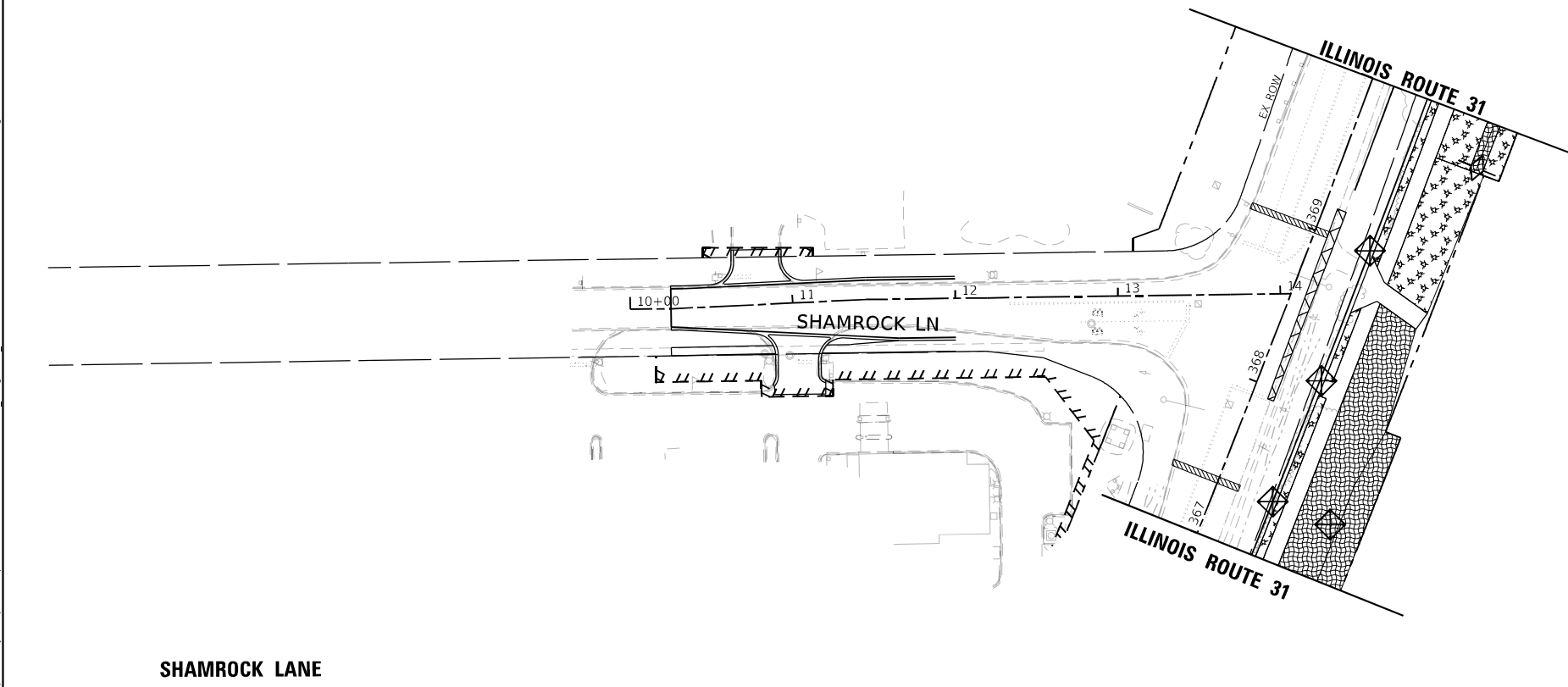
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	220
			CONTRACT NO. 80C85	
ILLINOIS FED. AID PROJECT				



NOTES:

1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
3. STORM SEWER TO BE FULLY CONSTRUCTED ACROSS ENTIRE ROADWAY, USING A SINGLE LANE NIGHTTIME CLOSURE.
4. WHEN TEMPORARY OR PERMANENT STORM SEWER IS PLACED BELOW EXISTING PAVEMENT OR TEMPORARY PAVEMENT, THE EXISTING OR TEMPORARY PAVEMENT WITHIN THE LIMITS OF THE TRENCHING OPERATION SHALL BE REMOVED AND REPLACED, AND PAID FOR AS "CLASS D PATCHES, TYPE III 12 INCH".

5. PAVEMENT PATCHING FOR TEMPORARY STORM SEWER WORK SHALL BE PERFORMED DURING THE NIGHT SHIFT.
6. PER THE CONTRACTOR'S DISCRETION, EXISTING DRIVEWAY CULVERTS THAT ARE COVERED/FILLED DUE TO TEMPORARY GRADING OPERATIONS CAN REMAIN IN PLACE DURING PRE-STAGE, IF LEFT IN PLACE THE CULVERT SHALL BE PLUGGED/FILLED PRIOR TO BEGINNING GRADING OPERATIONS. NO COMPENSATION WILL BE PROVIDED FOR THIS WORK. REMOVAL OF THE CULVERTS CAN TAKE PLACE IN THE CORRESPONDING STAGE ACTIVITY. NO EXISTING DRIVEWAY CULVERT SHALL BE ABANDONED IN PLACE.
7. SEE PRE-STAGE CROSS SECTIONS FOR GRADING AND TEMPORARY CULVERT ELEVATION INFORMATION.



LEGEND

- | | | |
|------------------------------|--|------------------------------------|
| — PERIMETER EROSION BARRIER* | TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2* | HEAVY DUTY EROSION CONTROL BLANKET |
| - - - TEMPORARY FENCE | ◇ INLET FILTER | ⊕ INLET PROTECTION |
| ◇ TEMPORARY DITCH CHECK | ▭ SEDIMENT TRAP | ~ DITCH FLOW |
| ▨ EROSION CONTROL BLANKET | ▨ CLASS D PATCHES, TYPE II, 12 INCH | ▨ TEMPORARY RIPRAP |
- *SHADED PATTERNS AND LINSTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE

SHAMROCK LANE

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DRAWN - TRANS	REVISIONS	
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PLOT DATE = 2/26/2026	DATE - 1/9/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL STAGE 1 PLAN
PRIME PRKWY /ALBANY ST & SHAMROCK LN**

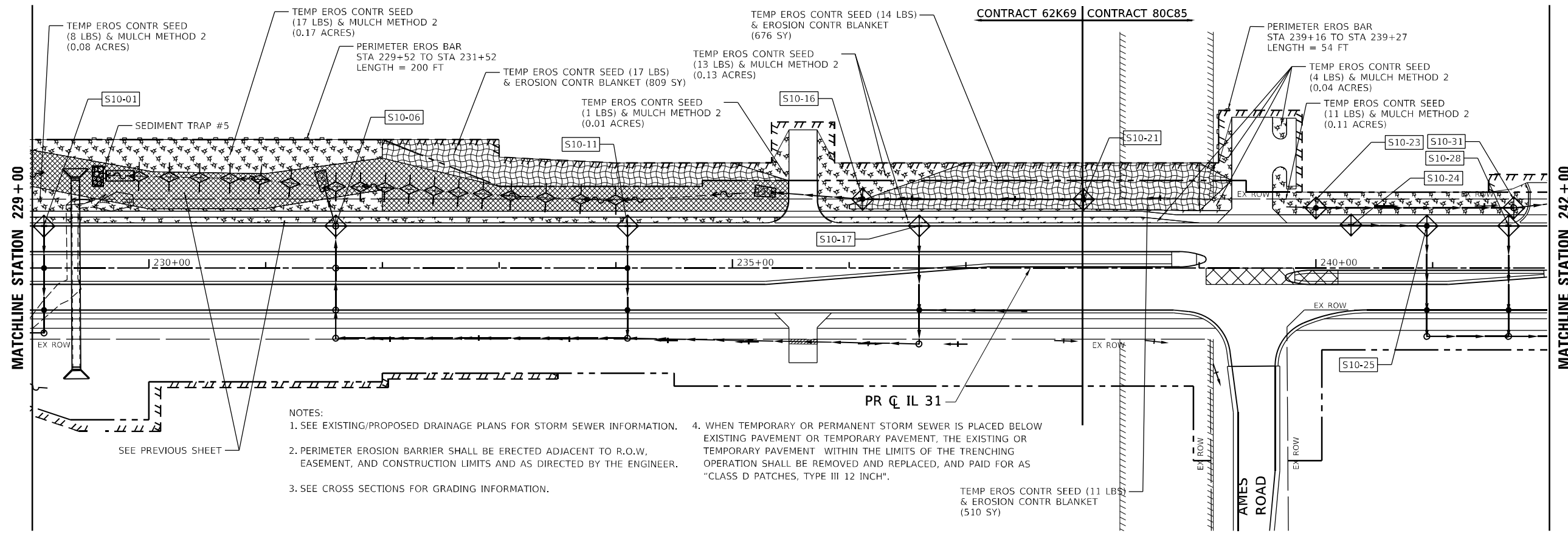
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	222
CONTRACT NO. 80C85				
ILLINOIS FED. AID PROJECT				

LEGEND

	PERIMETER EROSION BARRIER*		TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*		HEAVY DUTY EROSION CONTROL BLANKET
	TEMPORARY FENCE		INLET FILTER		INLET PROTECTION
	TEMPORARY DITCH CHECK		SEDIMENT TRAP		DITCH FLOW
	EROSION CONTROL BLANKET		CLASS D PATCHES, TYPE II, 12 INCH		TEMPORARY RIPRAP

*SHADED PATTERNS AND LINSTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE



- NOTES:
1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
 2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
 3. SEE CROSS SECTIONS FOR GRADING INFORMATION.
 4. WHEN TEMPORARY OR PERMANENT STORM SEWER IS PLACED BELOW EXISTING PAVEMENT OR TEMPORARY PAVEMENT, THE EXISTING OR TEMPORARY PAVEMENT WITHIN THE LIMITS OF THE TRENCHING OPERATION SHALL BE REMOVED AND REPLACED, AND PAID FOR AS "CLASS D PATCHES, TYPE III 12 INCH".

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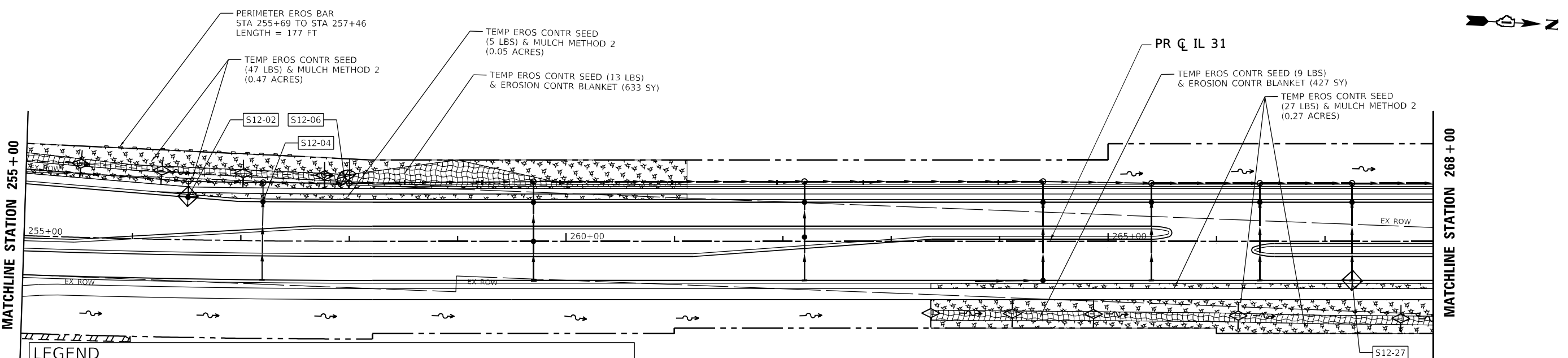
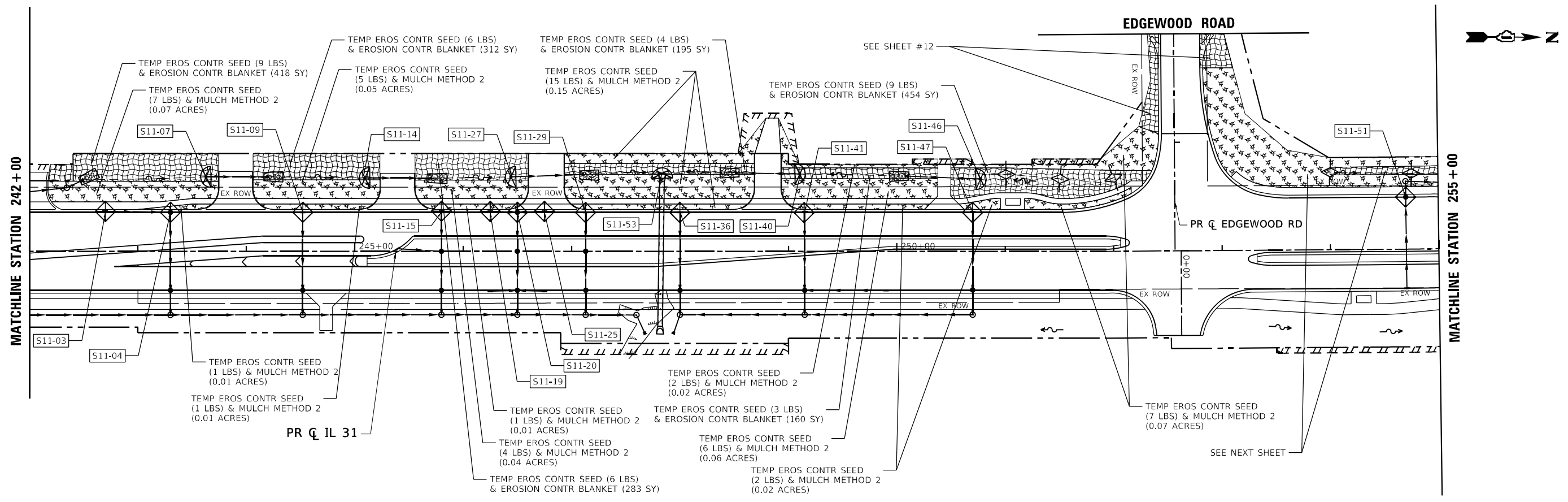


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PLOT DATE = 2/26/2026	DATE - 1/9/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 2 PLAN ILLINOIS ROUTE 31		
SCALE: 1"=50'	SHEET 1 OF 9 SHEETS	STA. 229+00 TO STA. 242+00

F.A.P. RTE. 336A	SECTION 2025-2127-R,C,TS,SW	COUNTY McHENRY	TOTAL SHEETS 553	SHEET NO. 223
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	



LEGEND

	PERIMETER EROSION BARRIER*		TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*		HEAVY DUTY EROSION CONTROL BLANKET
	TEMPORARY FENCE		INLET FILTER		INLET PROTECTION
	TEMPORARY DITCH CHECK		SEDIMENT TRAP		DITCH FLOW
	EROSION CONTROL BLANKET		CLASS D PATCHES, TYPE II, 12 INCH		TEMPORARY RIPRAP

*SHADED PATTERNS AND LIFESTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE

- NOTES:**
1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
 2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
 3. SEE CROSS SECTIONS FOR GRADING INFORMATION.
 4. WHEN TEMPORARY OR PERMANENT STORM SEWER IS PLACED BELOW EXISTING PAVEMENT OR TEMPORARY PAVEMENT, THE EXISTING OR TEMPORARY PAVEMENT WITHIN THE LIMITS OF THE TRENCHING OPERATION SHALL BE REMOVED AND REPLACED, AND PAID FOR AS "CLASS D PATCHES, TYPE III 12 INCH".

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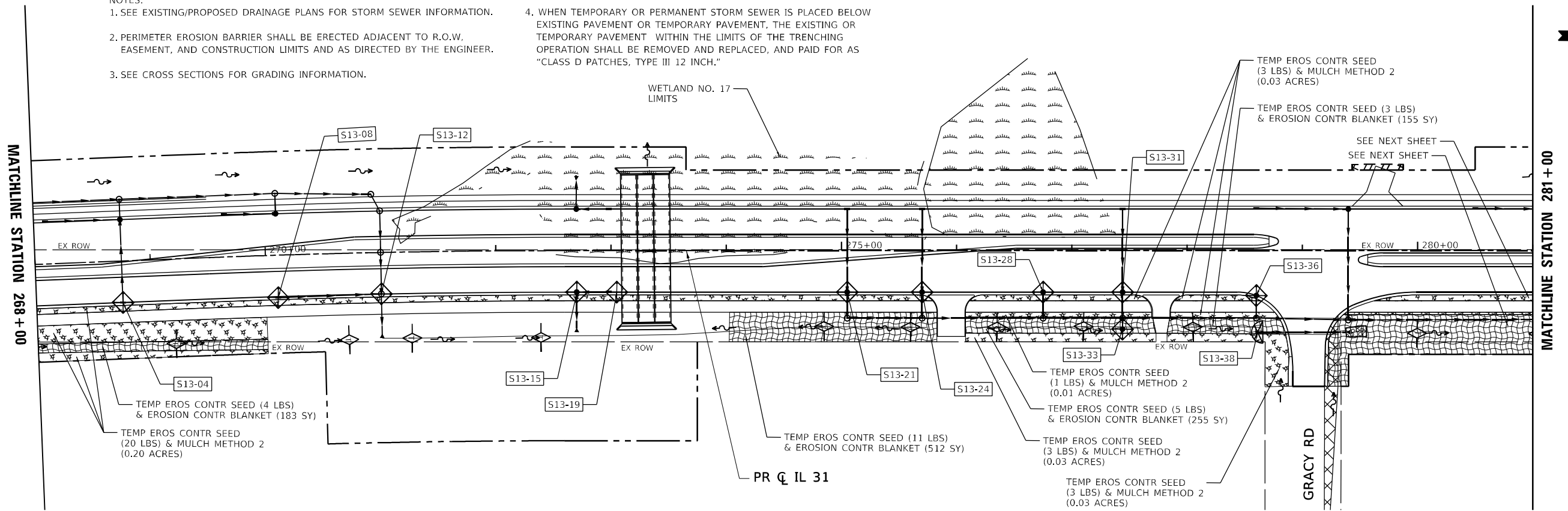
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	DATE - 1/9/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 2 PLAN
ILLINOIS ROUTE 31
 SCALE: 1"=50' SHEET 2 OF 9 SHEETS STA. 242+00 TO STA. 268+00

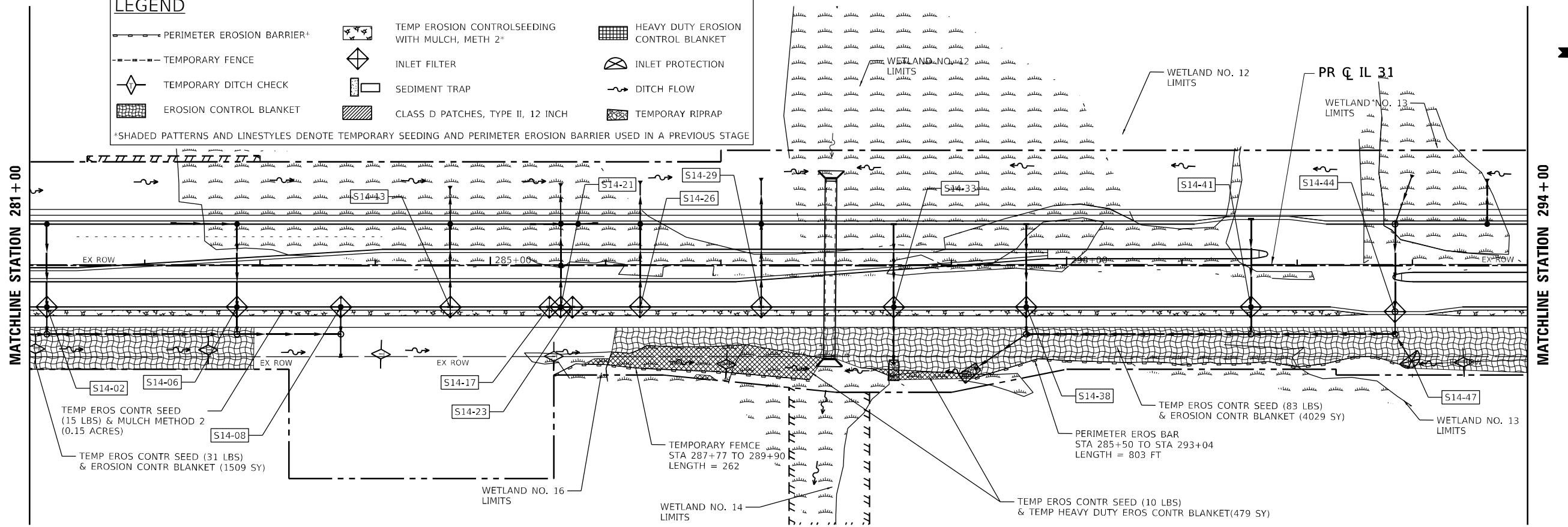
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	224
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

- NOTES:
1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
 2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W. EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
 3. SEE CROSS SECTIONS FOR GRADING INFORMATION.
 4. WHEN TEMPORARY OR PERMANENT STORM SEWER IS PLACED BELOW EXISTING PAVEMENT OR TEMPORARY PAVEMENT, THE EXISTING OR TEMPORARY PAVEMENT WITHIN THE LIMITS OF THE TRENCHING OPERATION SHALL BE REMOVED AND REPLACED, AND PAID FOR AS "CLASS D PATCHES, TYPE III 12 INCH."



LEGEND			
	PERIMETER EROSION BARRIER*		TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*
	TEMPORARY FENCE		INLET FILTER
	TEMPORARY DITCH CHECK		SEDIMENT TRAP
	EROSION CONTROL BLANKET		CLASS D PATCHES, TYPE II, 12 INCH
	HEAVY DUTY EROSION CONTROL BLANKET		INLET PROTECTION
	DITCH FLOW		TEMPORARY RIPRAP

*SHADED PATTERNS AND LINESYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

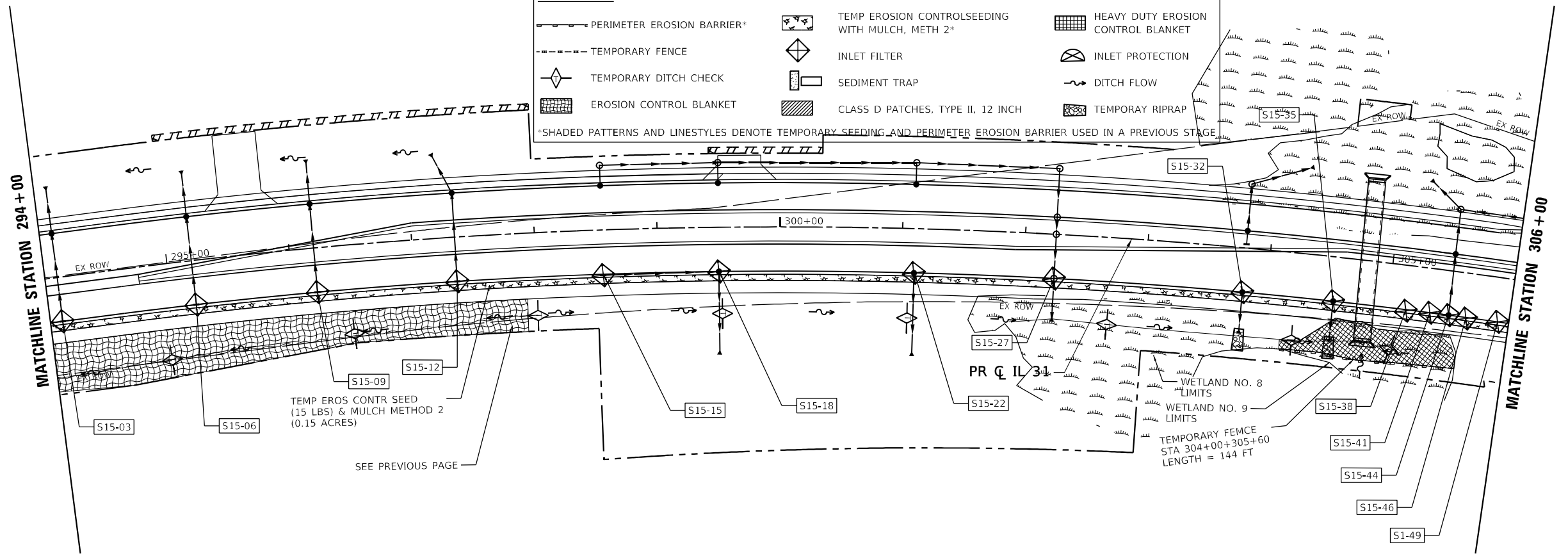
EROSION AND SEDIMENT CONTROL STAGE 2 PLAN ILLINOIS ROUTE 31		
SCALE: 1"=50'	SHEET 3 OF 9 SHEETS	STA. 268+00 TO STA. 294+00

F.A.P. RTE. 336A	SECTION 2025-2127-R,C,TS,SW	COUNTY McHENRY	TOTAL SHEETS 553	SHEET NO. 225
			CONTRACT NO. 80C85	
ILLINOIS FED. AID PROJECT				

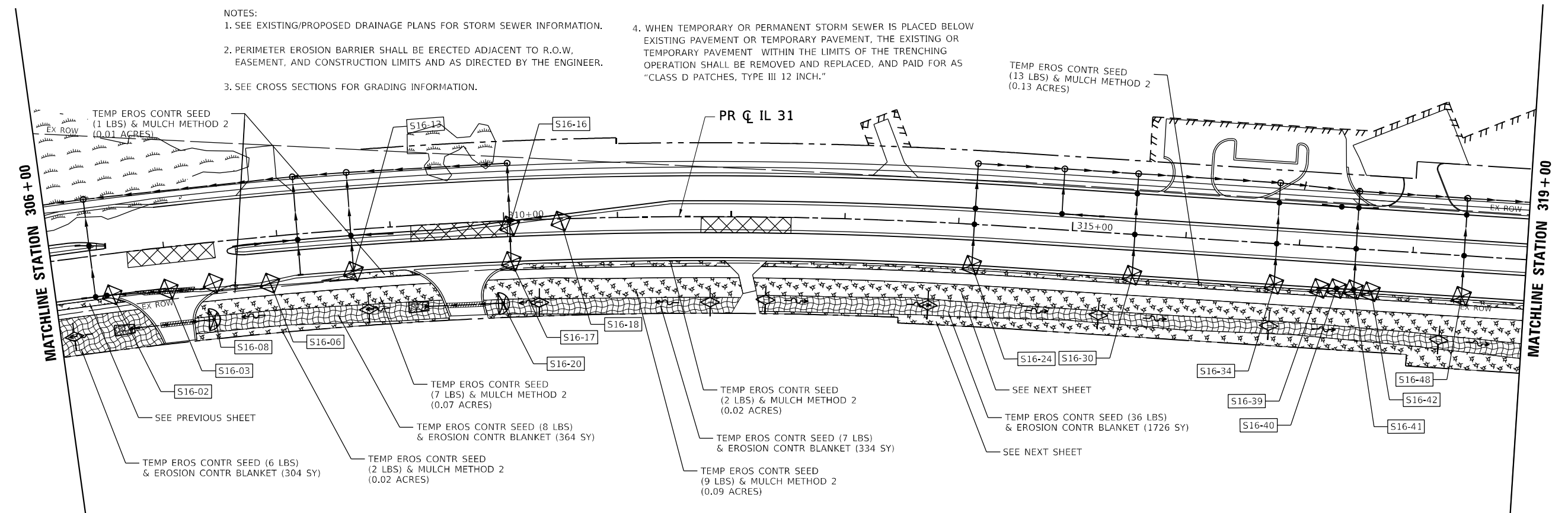
LEGEND

- PERIMETER EROSION BARRIER*
- - - TEMPORARY FENCE
- ◇ TEMPORARY DITCH CHECK
- ▨ EROSION CONTROL BLANKET
- TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*
- ◇ INLET FILTER
- ▭ SEDIMENT TRAP
- ▨ CLASS D PATCHES, TYPE II, 12 INCH
- ▩ HEAVY DUTY EROSION CONTROL BLANKET
- ⊗ INLET PROTECTION
- DITCH FLOW
- ▨ TEMPORARY RIPRAP

*SHADED PATTERNS AND LINESYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE



- NOTES:**
1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
 2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
 3. SEE CROSS SECTIONS FOR GRADING INFORMATION.
 4. WHEN TEMPORARY OR PERMANENT STORM SEWER IS PLACED BELOW EXISTING PAVEMENT OR TEMPORARY PAVEMENT, THE EXISTING OR TEMPORARY PAVEMENT WITHIN THE LIMITS OF THE TRENCHING OPERATION SHALL BE REMOVED AND REPLACED, AND PAID FOR AS "CLASS D PATCHES, TYPE III 12 INCH."



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	DATE - 1/9/2026	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL STAGE 2 PLAN		
ILLINOIS ROUTE 31		
SCALE: 1"=50'	SHEET 4 OF 9 SHEETS	STA. 294+00 TO STA. 319+00

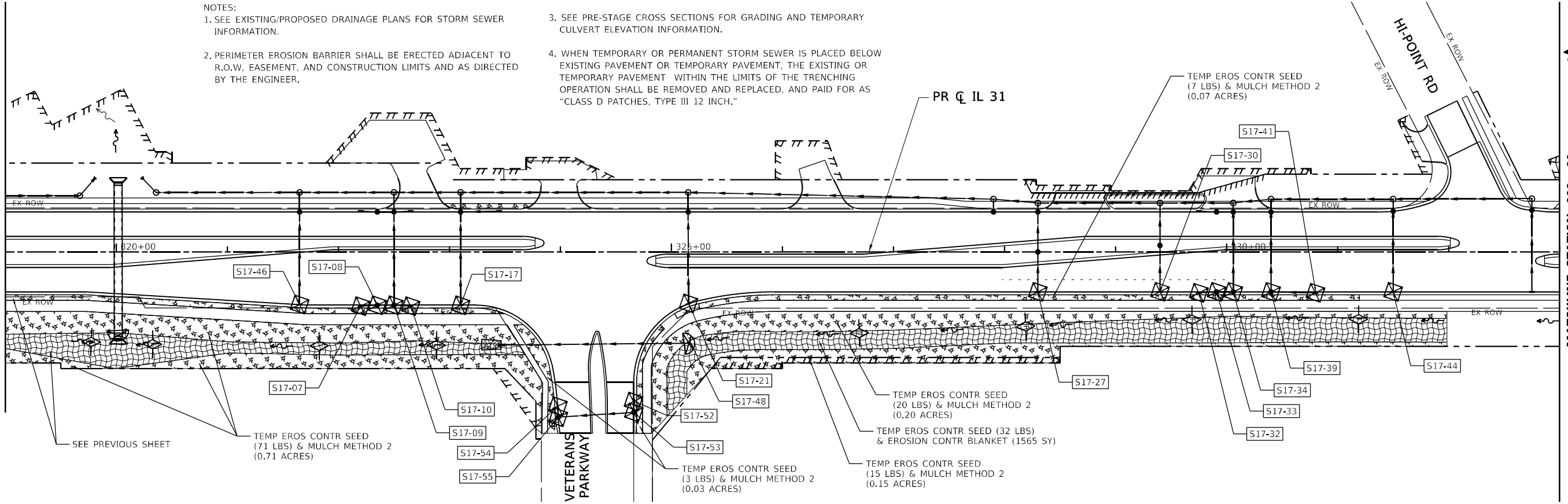
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 80C85	

- NOTES:
1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
 2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.

3. SEE PRE-STAGE CROSS SECTIONS FOR GRADING AND TEMPORARY CULVERT ELEVATION INFORMATION.
4. WHEN TEMPORARY OR PERMANENT STORM SEWER IS PLACED BELOW EXISTING PAVEMENT OR TEMPORARY PAVEMENT WITHIN THE LIMITS OF THE TRENCHING OPERATION SHALL BE REMOVED AND REPLACED, AND PAID FOR AS "CLASS D PATCHES, TYPE III 12 INCH."

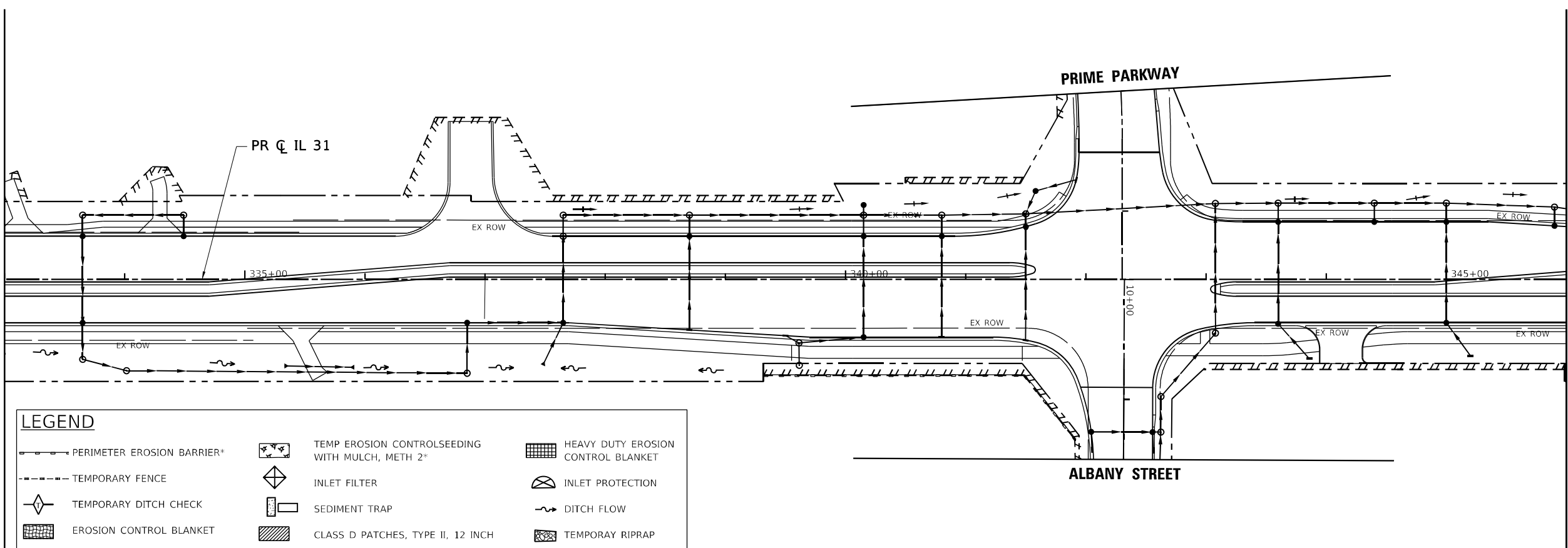
MATCHLINE STATION 319+00

MATCHLINE STATION 333+00



MATCHLINE STATION 333+00

MATCHLINE STATION 346+00



LEGEND			
	PERIMETER EROSION BARRIER*		TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*
	TEMPORARY FENCE		INLET FILTER
	TEMPORARY DITCH CHECK		SEDIMENT TRAP
	EROSION CONTROL BLANKET		CLASS D PATCHES, TYPE II, 12 INCH
	HEAVY DUTY EROSION CONTROL BLANKET		INLET PROTECTION
	DITCH FLOW		TEMPORARY RIPRAP

*SHADED PATTERNS AND LIFESTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE

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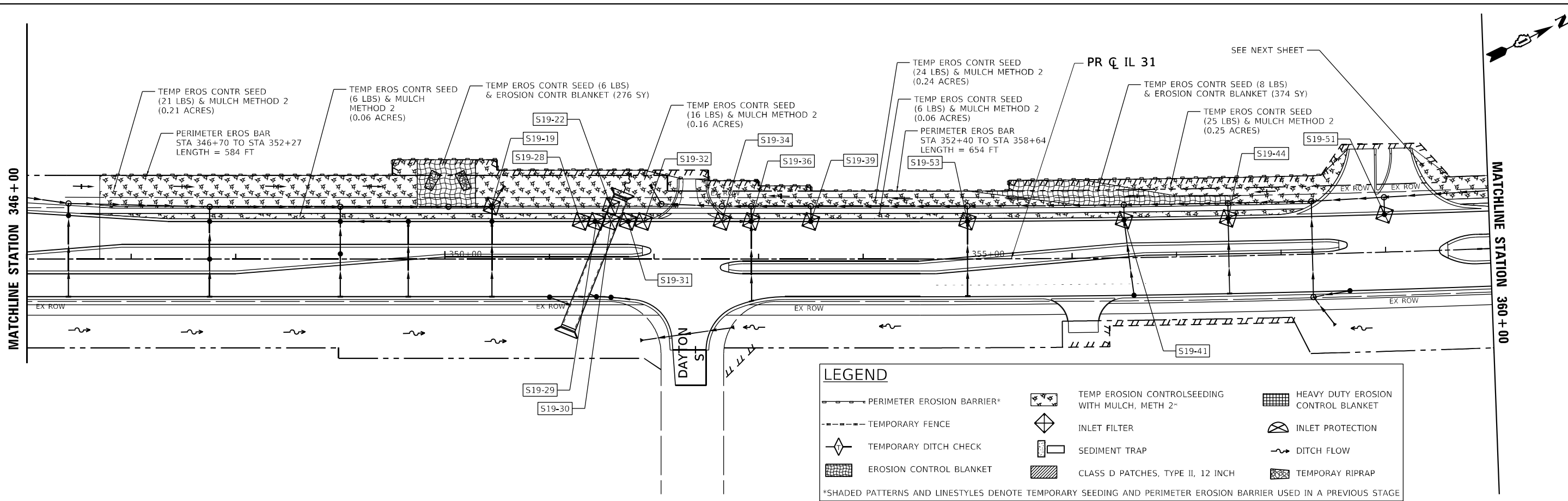


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PLOT DATE = 2/26/2026	DATE - 1/9/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 2 PLAN
ILLINOIS ROUTE 31
SCALE: 1"=50' SHEET 5 OF 9 SHEETS STA. 319+00 TO STA. 346+00

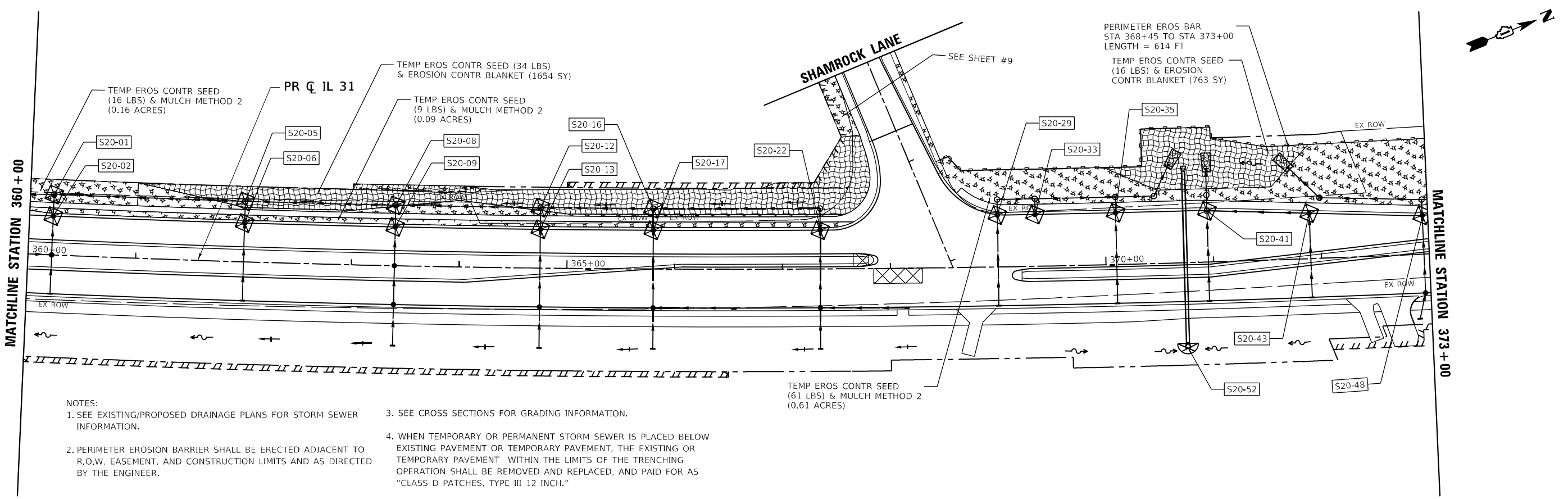
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336A	2025-2127-R,C,TS,SW	McHENRY	553	227
			CONTRACT NO. 80C85	
ILLINOIS FED. AID PROJECT				



LEGEND

— PERIMETER EROSION BARRIER*	TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2~	HEAVY DUTY EROSION CONTROL BLANKET
- - - TEMPORARY FENCE	◇ INLET FILTER	◇ INLET PROTECTION
◇ TEMPORARY DITCH CHECK	▭ SEDIMENT TRAP	~ DITCH FLOW
▭ EROSION CONTROL BLANKET	▨ CLASS D PATCHES, TYPE II, 12 INCH	▨ TEMPORARY RIPRAP

*SHADED PATTERNS AND LINSTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE



- NOTES:**
- SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
 - PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
 - SEE CROSS SECTIONS FOR GRADING INFORMATION.
 - WHEN TEMPORARY OR PERMANENT STORM SEWER IS PLACED BELOW EXISTING PAVEMENT OR TEMPORARY PAVEMENT, THE EXISTING OR TEMPORARY PAVEMENT WITHIN THE LIMITS OF THE TRENCHING OPERATION SHALL BE REMOVED AND REPLACED, AND PAID FOR AS "CLASS D PATCHES, TYPE III 12 INCH."

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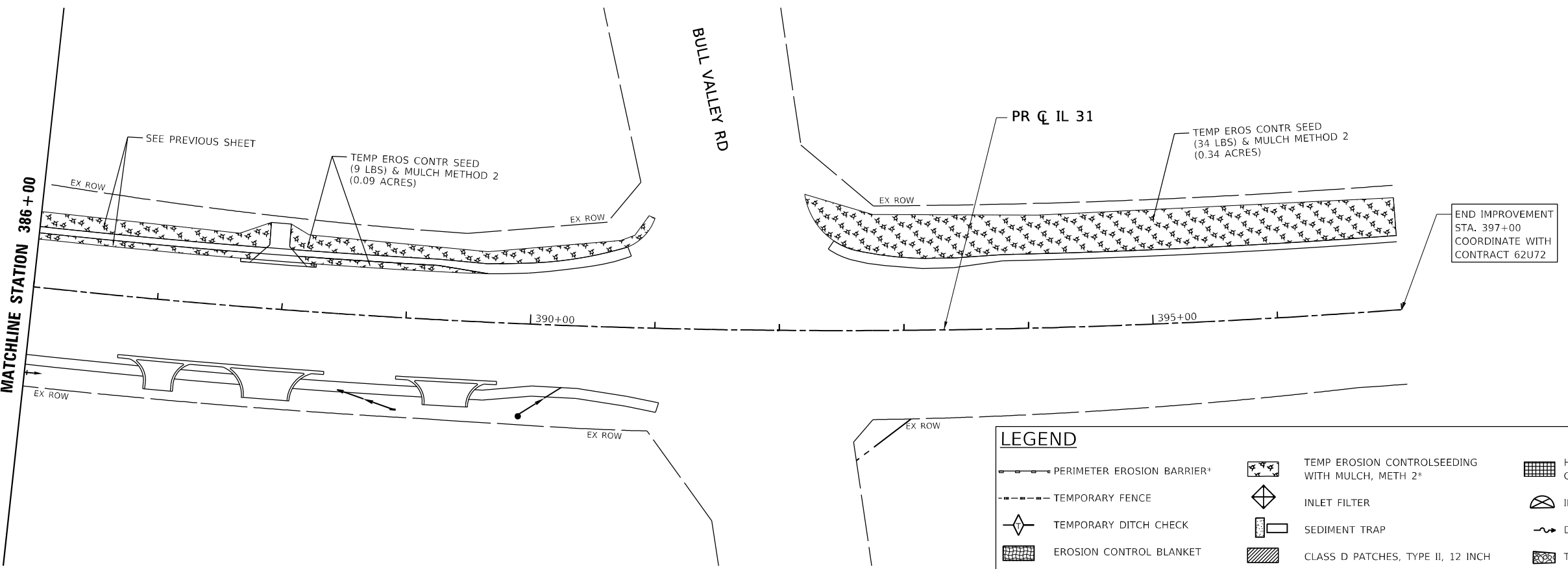
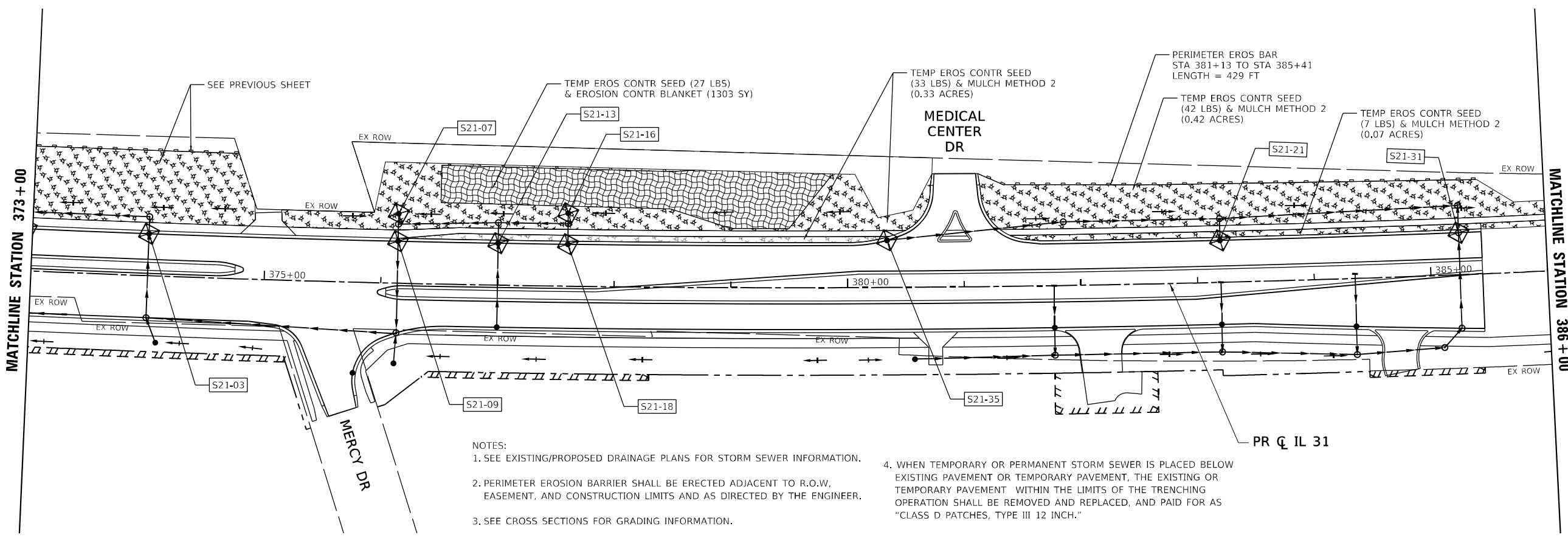


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	DATE - 1/9/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 2 PLAN
ILLINOIS ROUTE 31
 SCALE: 1"=50' SHEET 6 OF 9 SHEETS STA. 346+00 TO STA. 373+00

F.A.P. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	228
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	



LEGEND

— PERIMETER EROSION BARRIER*	TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*	HEAVY DUTY EROSION CONTROL BLANKET
- - - TEMPORARY FENCE	◇ INLET FILTER	⊗ INLET PROTECTION
◇ TEMPORARY DITCH CHECK	▭ SEDIMENT TRAP	~ DITCH FLOW
▭ EROSION CONTROL BLANKET	▨ CLASS D PATCHES, TYPE II, 12 INCH	⊗ TEMPORARY RIPRAP

*SHADED PATTERNS AND LINSTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL STAGE 2 PLAN	
ILLINOIS ROUTE 31	
SCALE: 1"=50'	SHEET 7 OF 9 SHEETS
STA. 373+00	TO STA. 397+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,T5,SW	McHENRY	553	229
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

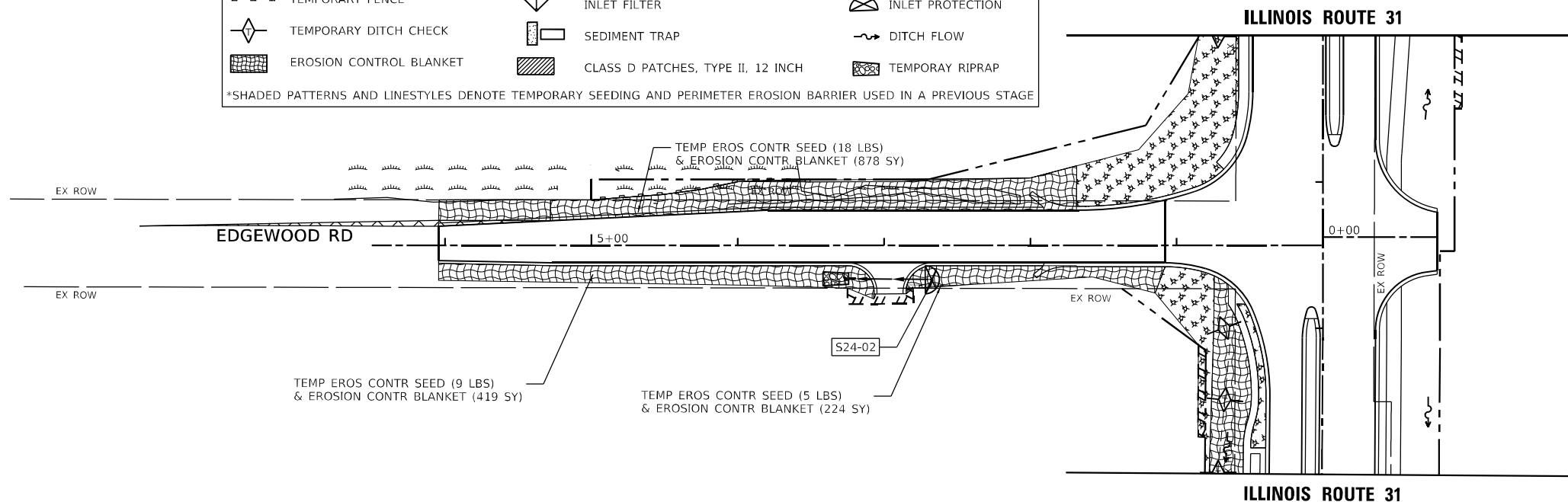
NOTES:

1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
3. SEE CROSS SECTIONS FOR GRADING INFORMATION.
4. WHEN TEMPORARY OR PERMANENT STORM SEWER IS PLACED BELOW EXISTING PAVEMENT OR TEMPORARY PAVEMENT, THE EXISTING OR TEMPORARY PAVEMENT WITHIN THE LIMITS OF THE TRENCHING OPERATION SHALL BE REMOVED AND REPLACED, AND PAID FOR AS "CLASS D PATCHES, TYPE III 12 INCH".

LEGEND

	PERIMETER EROSION BARRIER*		TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*		HEAVY DUTY EROSION CONTROL BLANKET
	TEMPORARY FENCE		INLET FILTER		INLET PROTECTION
	TEMPORARY DITCH CHECK		SEDIMENT TRAP		DITCH FLOW
	EROSION CONTROL BLANKET		CLASS D PATCHES, TYPE II, 12 INCH		TEMPORARY RIPRAP

*SHADED PATTERNS AND LIFESTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE



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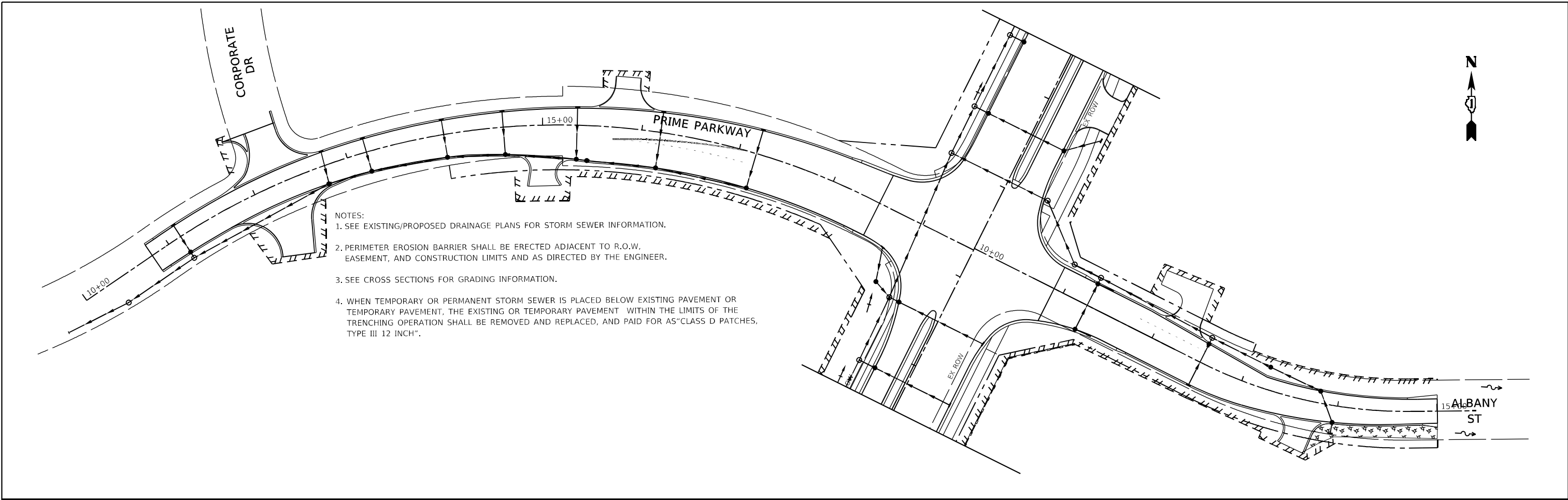
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

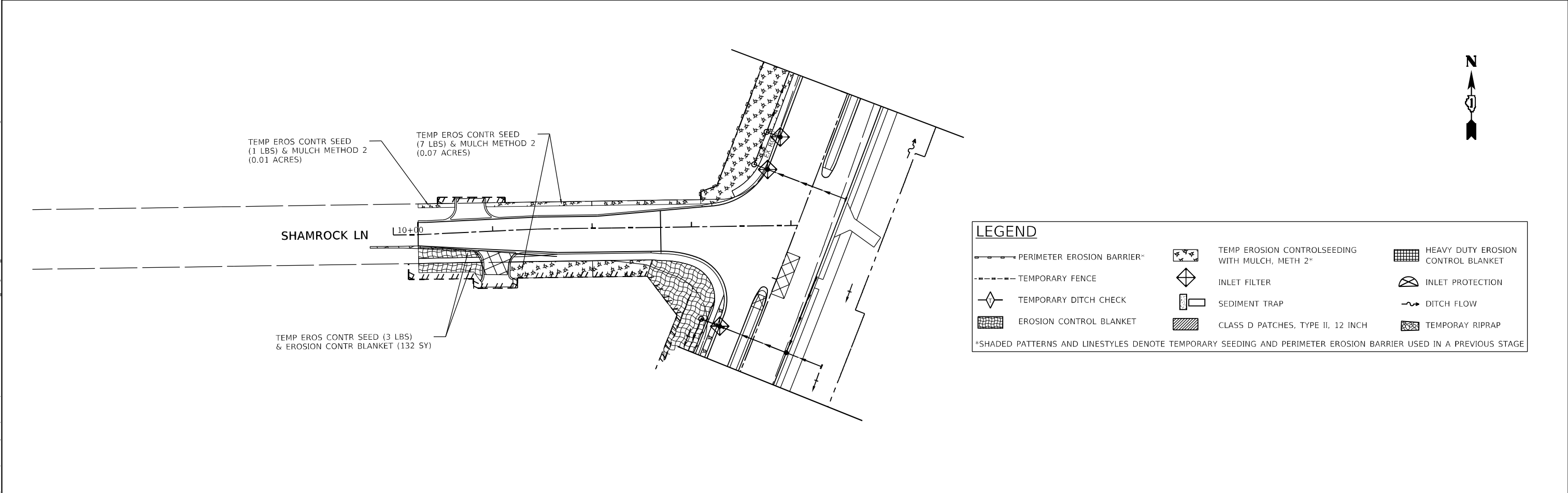
EROSION AND SEDIMENT CONTROL STAGE 2 PLAN
HALF MILE TRAIL /EDGEWOOD ROAD

SCALE: 1"=50' SHEET 8 OF 9 SHEETS STA. TO STA.

F.A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	230
CONTRACT NO.			80C85	
ILLINOIS		FED. AID PROJECT		



- NOTES:
1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
 2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
 3. SEE CROSS SECTIONS FOR GRADING INFORMATION.
 4. WHEN TEMPORARY OR PERMANENT STORM SEWER IS PLACED BELOW EXISTING PAVEMENT OR TEMPORARY PAVEMENT, THE EXISTING OR TEMPORARY PAVEMENT WITHIN THE LIMITS OF THE TRENCHING OPERATION SHALL BE REMOVED AND REPLACED, AND PAID FOR AS CLASS D PATCHES, TYPE III 12 INCH".



LEGEND			
	PERIMETER EROSION BARRIER*		TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*
	TEMPORARY FENCE		INLET FILTER
	TEMPORARY DITCH CHECK		SEDIMENT TRAP
	EROSION CONTROL BLANKET		CLASS D PATCHES, TYPE II, 12 INCH
	HEAVY DUTY EROSION CONTROL BLANKET		INLET PROTECTION
	DITCH FLOW		TEMPORARY RIPRAP

*SHADED PATTERNS AND LIFESTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

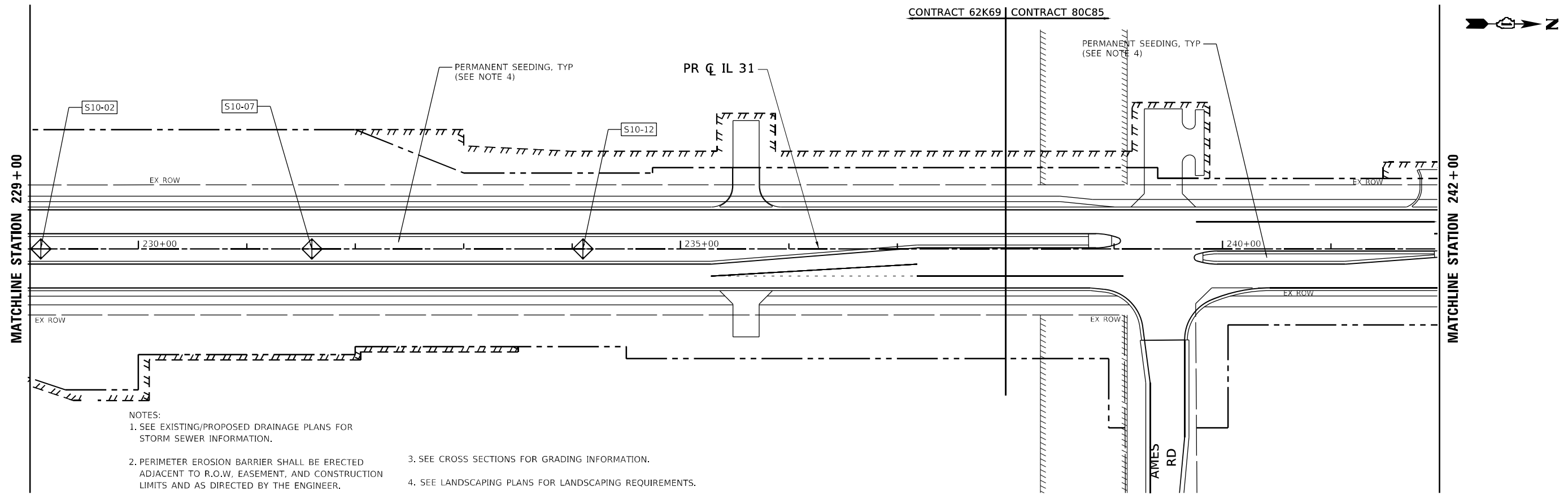
EROSION AND SEDIMENT CONTROL STAGE 2 PLAN PRIME PRKWY /ALBANY ST & SHAMROCK LN			
SCALE: 1"=50'	SHEET 9	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	231
CONTRACT NO.			80C85	
ILLINOIS		FED. AID PROJECT		

LEGEND

	PERIMETER EROSION BARRIER*		TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*		HEAVY DUTY EROSION CONTROL BLANKET
	TEMPORARY FENCE		INLET FILTER		INLET PROTECTION
	TEMPORARY DITCH CHECK		SEDIMENT TRAP		DITCH FLOW
	EROSION CONTROL BLANKET		CLASS D PATCHES, TYPE II, 12 INCH		TEMPORARY RIPRAP

*SHADED PATTERNS AND LIFESTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE



- NOTES:
- SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
 - PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
 - SEE CROSS SECTIONS FOR GRADING INFORMATION.
 - SEE LANDSCAPING PLANS FOR LANDSCAPING REQUIREMENTS.

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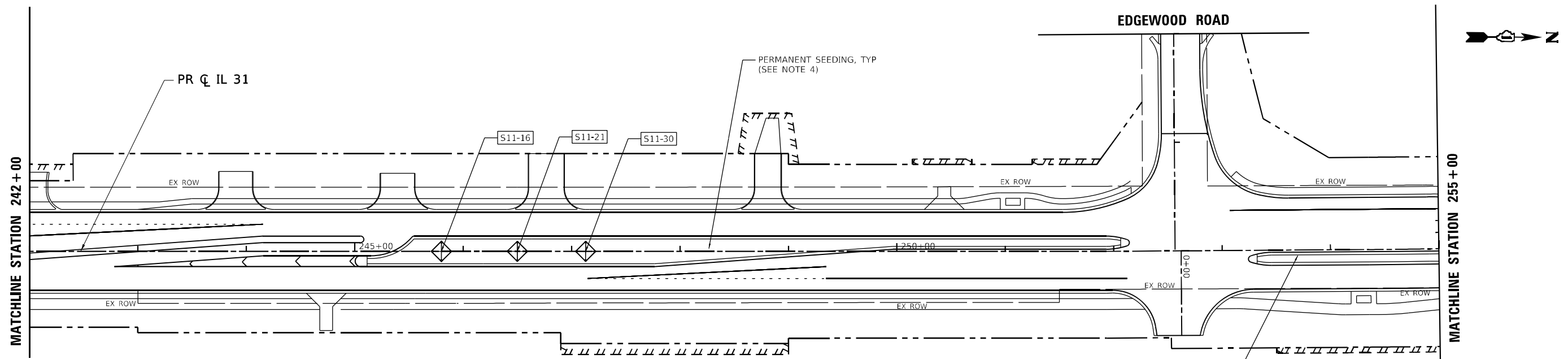
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL STAGE 3 PLAN
ILLINOIS ROUTE 31**

SCALE: 1"=50' SHEET 1 OF 9 SHEETS STA. 229+00 TO STA. 242+00

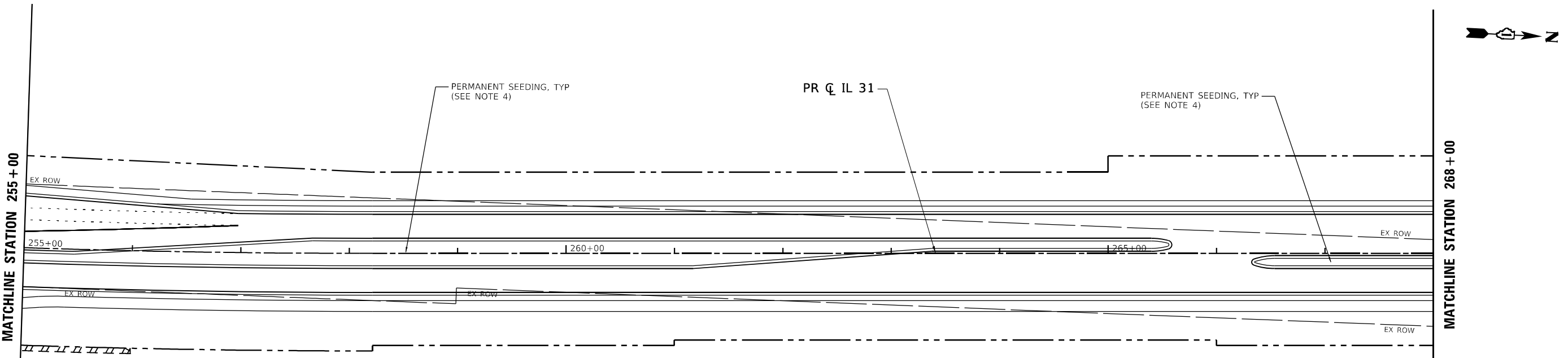
F.A. # 336A	SECTION 2025-2127-R,C,TS,SW	COUNTY McHENRY	TOTAL SHEETS 553	SHEET NO. 232
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	



LEGEND

PERIMETER EROSION BARRIER*	TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2+	HEAVY DUTY EROSION CONTROL BLANKET
TEMPORARY FENCE	INLET FILTER	INLET PROTECTION
TEMPORARY DITCH CHECK	SEDIMENT TRAP	DITCH FLOW
EROSION CONTROL BLANKET	CLASS D PATCHES, TYPE II, 12 INCH	TEMPORARY RIPRAP

*SHADED PATTERNS AND LIFESTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE



- NOTES:**
- SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
 - PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W. EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
 - SEE CROSS SECTIONS FOR GRADING INFORMATION.
 - SEE LANDSCAPING PLANS FOR LANDSCAPING REQUIREMENTS.

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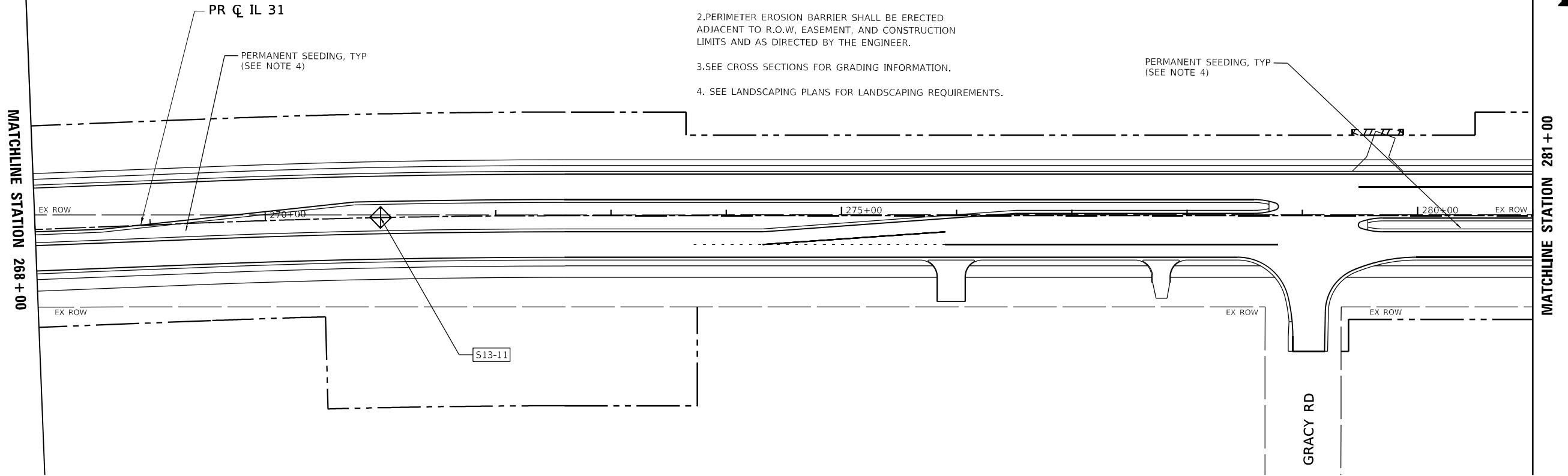
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL STAGE 3 PLAN
ILLINOIS ROUTE 31**

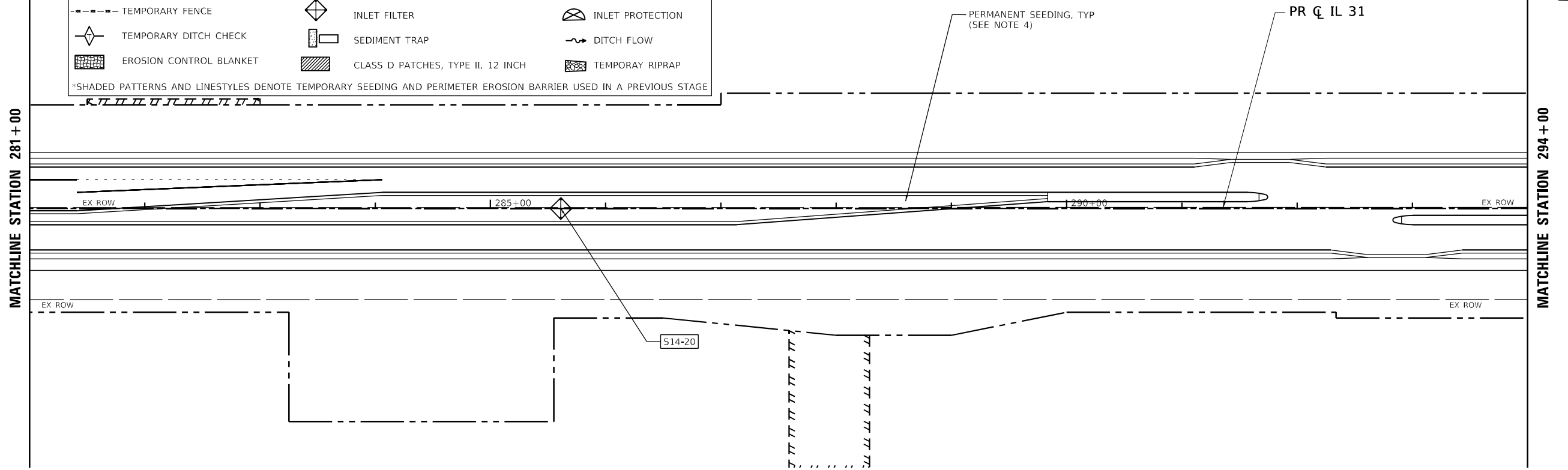
SCALE: 1"=50' SHEET 2 OF 9 SHEETS STA. 242+00 TO STA. 268+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	233
CONTRACT NO. 80C85				
ILLINOIS FED. AID PROJECT				

- NOTES:
1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
 2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
 3. SEE CROSS SECTIONS FOR GRADING INFORMATION.
 4. SEE LANDSCAPING PLANS FOR LANDSCAPING REQUIREMENTS.



LEGEND			
	PERIMETER EROSION BARRIER*		HEAVY DUTY EROSION CONTROL BLANKET
	TEMPORARY FENCE		TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2"
	TEMPORARY DITCH CHECK		INLET FILTER
	EROSION CONTROL BLANKET		SEDIMENT TRAP
	*SHADED PATTERNS AND LINSTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE		CLASS D PATCHES, TYPE II, 12 INCH
			DITCH FLOW
			TEMPORARY RIPRAP
			INLET PROTECTION



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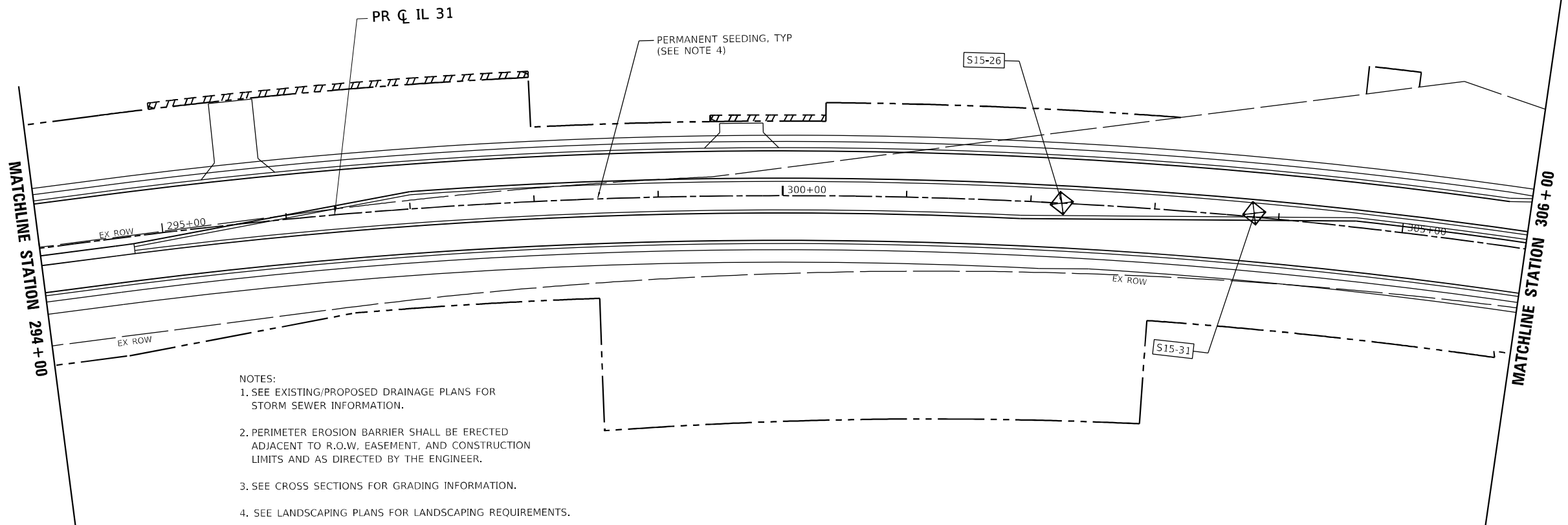


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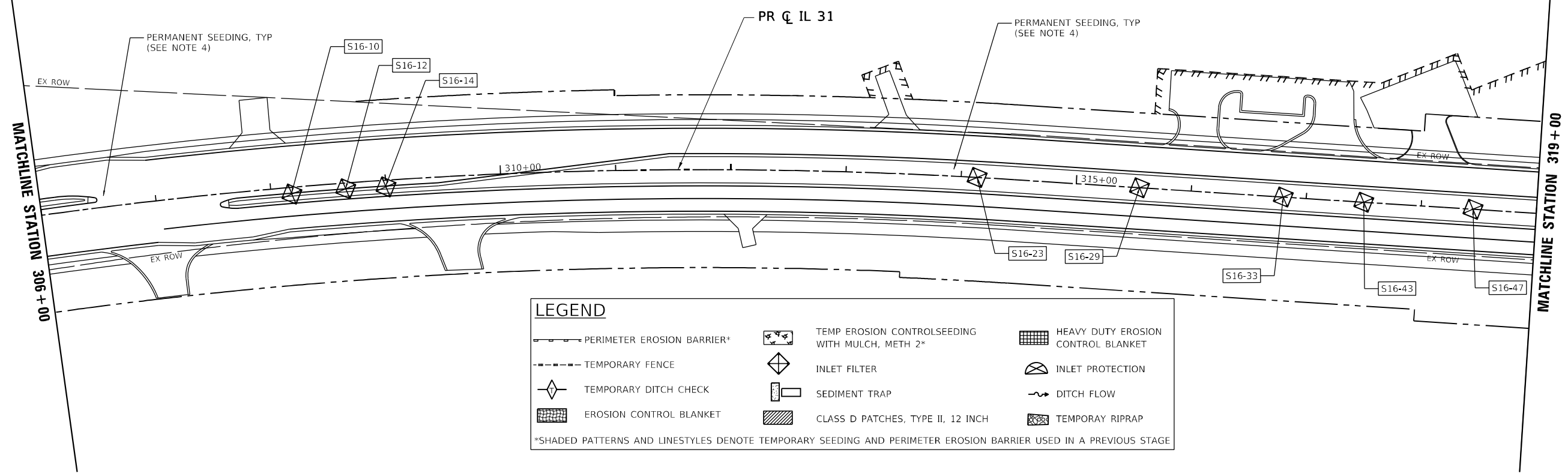
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 3 PLAN ILLINOIS ROUTE 31		
SCALE: 1"=50'	SHEET 3	OF 9 SHEETS
STA. 268+00	TO STA. 294+00	

F.A.P. RTE. 336A	SECTION 2025-2127-R,C,T5,SW	COUNTY McHENRY	TOTAL SHEETS 553	SHEET NO. 234
			CONTRACT NO. 80C85	
		ILLINOIS	FED. AID PROJECT	



- NOTES:
1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
 2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
 3. SEE CROSS SECTIONS FOR GRADING INFORMATION.
 4. SEE LANDSCAPING PLANS FOR LANDSCAPING REQUIREMENTS.



LEGEND

PERIMETER EROSION BARRIER*	TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*	HEAVY DUTY EROSION CONTROL BLANKET
TEMPORARY FENCE	INLET FILTER	INLET PROTECTION
TEMPORARY DITCH CHECK	SEDIMENT TRAP	DITCH FLOW
EROSION CONTROL BLANKET	CLASS D PATCHES, TYPE II, 12 INCH	TEMPORARY RIPRAP

*SHADED PATTERNS AND LINESYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE

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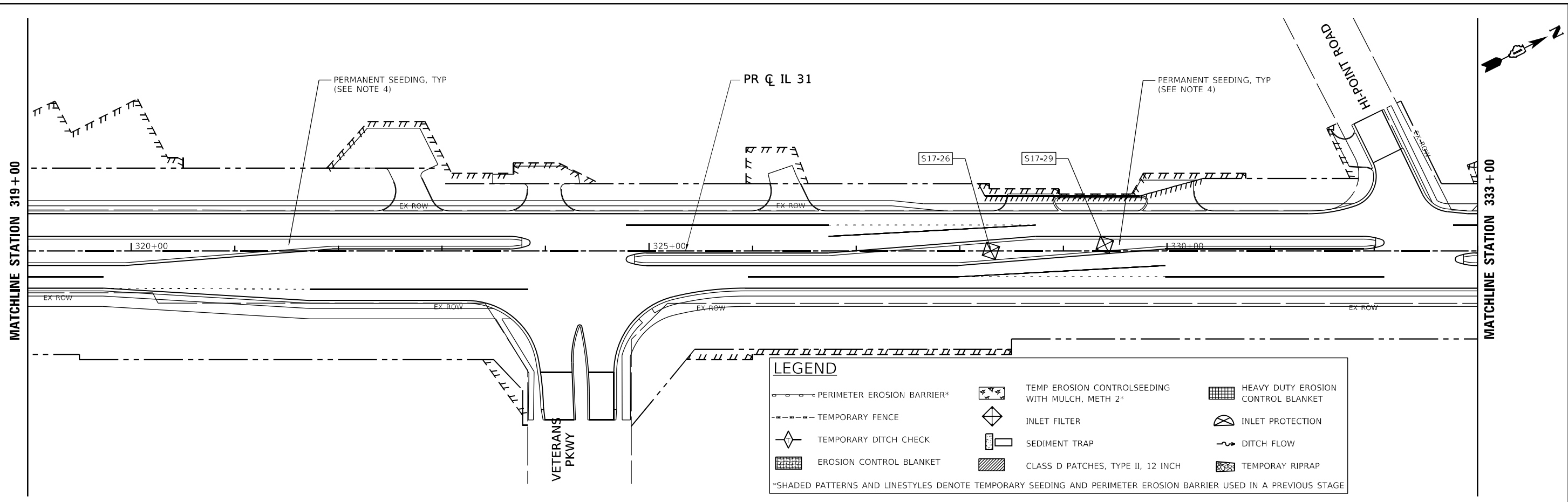


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DRAWN -	TRANS	REVISED -	
CHECKED -	TRANS	REVISED -	
DATE -	1/9/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 3 PLAN
ILLINOIS ROUTE 31
 SCALE: 1"=50' SHEET 4 OF 9 SHEETS STA. 294+00 TO STA. 319+00

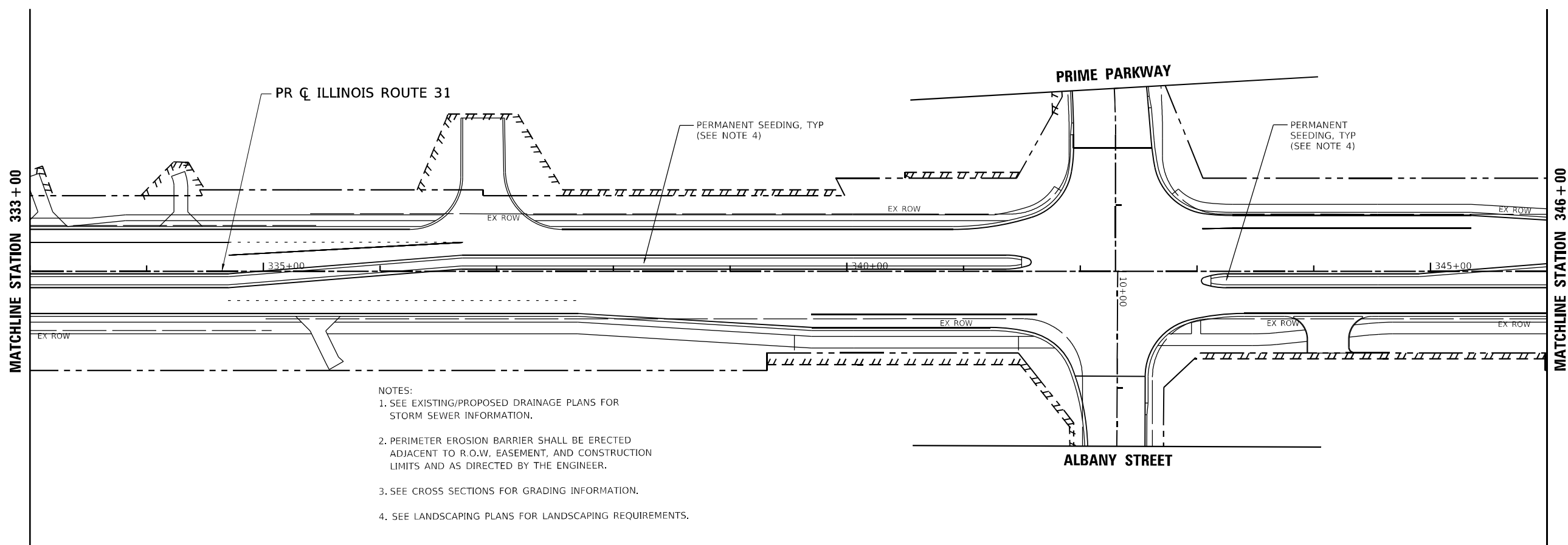
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	235
CONTRACT NO.			80C85	
ILLINOIS FED. AID PROJECT				



LEGEND

--- PERIMETER EROSION BARRIER*	[Cross-hatch] TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2+	[Grid] HEAVY DUTY EROSION CONTROL BLANKET
- - - - - TEMPORARY FENCE	[Diamond with cross] INLET FILTER	[Semi-circle] INLET PROTECTION
[Diamond] TEMPORARY DITCH CHECK	[Rectangle with cross] SEDIMENT TRAP	[Wavy line] DITCH FLOW
[Grid] EROSION CONTROL BLANKET	[Diagonal lines] CLASS D PATCHES, TYPE II, 12 INCH	[Brick pattern] TEMPORARY RIPRAP

*SHADED PATTERNS AND LIFESTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE



- NOTES:**
1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
 2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W. EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
 3. SEE CROSS SECTIONS FOR GRADING INFORMATION.
 4. SEE LANDSCAPING PLANS FOR LANDSCAPING REQUIREMENTS.

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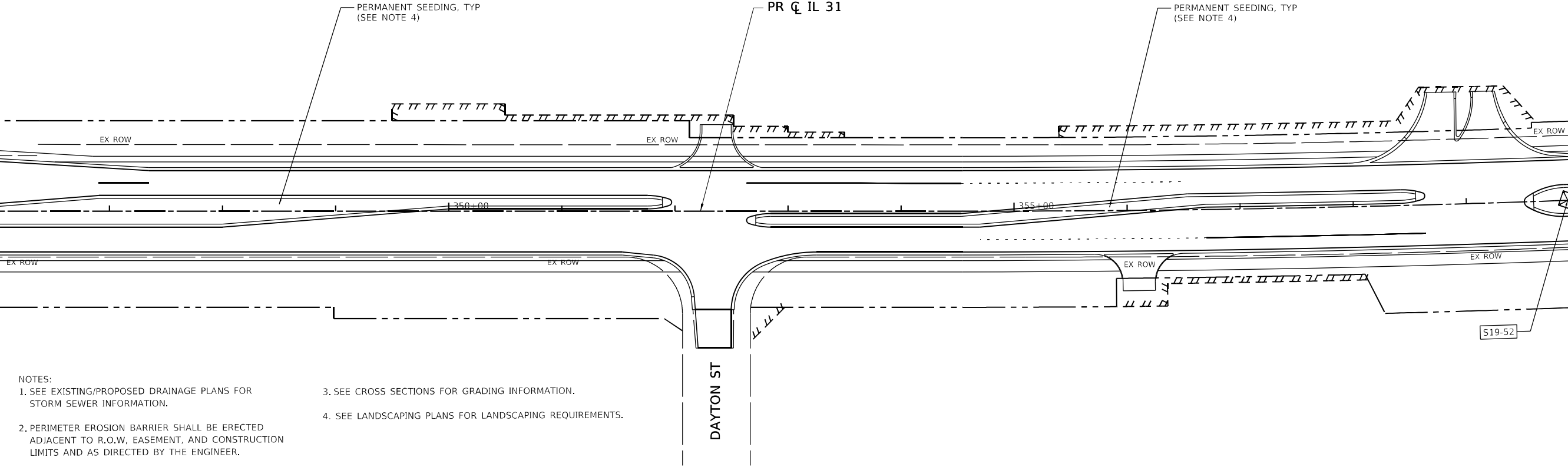
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EROSION AND SEDIMENT CONTROL STAGE 3 PLAN			
ILLINOIS ROUTE 31			
SCALE: 1"=50'	SHEET 5	OF 9 SHEETS	STA. 319+00 TO STA. 346+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	236
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

MATCHLINE STATION 346 + 00

MATCHLINE STATION 360 + 00



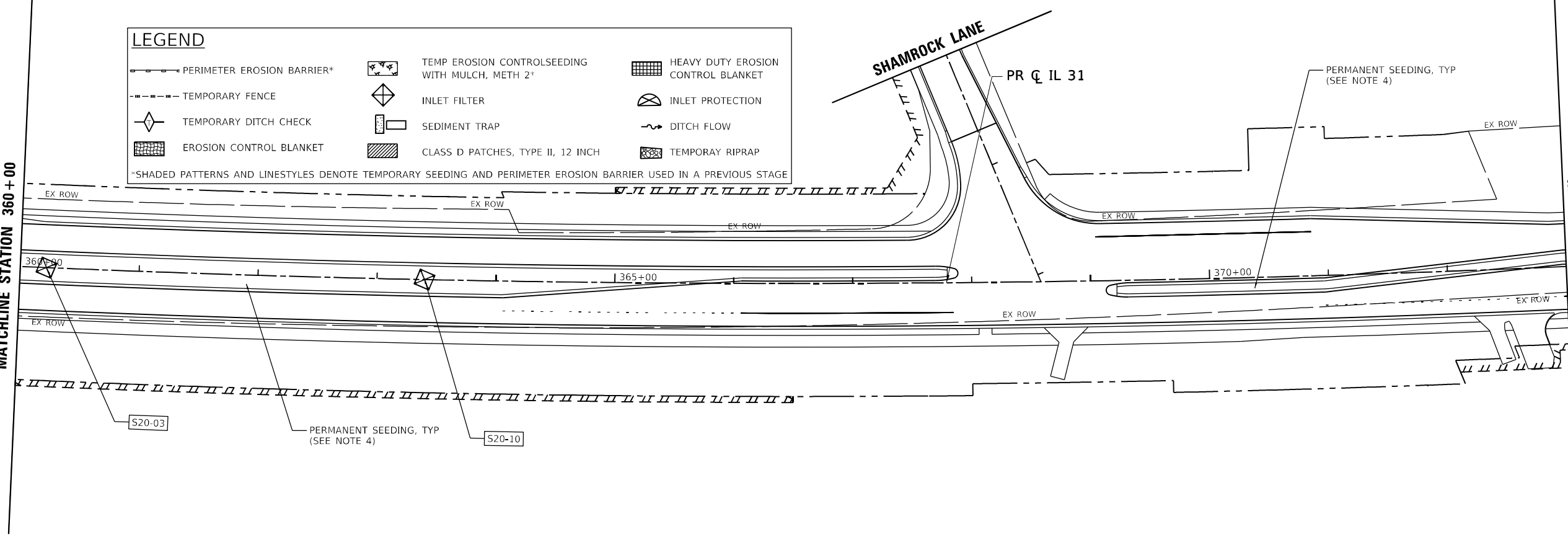
- NOTES:
- 1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
 - 2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
 - 3. SEE CROSS SECTIONS FOR GRADING INFORMATION.
 - 4. SEE LANDSCAPING PLANS FOR LANDSCAPING REQUIREMENTS.



LEGEND			
	PERIMETER EROSION BARRIER*		TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*
	TEMPORARY FENCE		HEAVY DUTY EROSION CONTROL BLANKET
	TEMPORARY DITCH CHECK		INLET PROTECTION
	EROSION CONTROL BLANKET		DITCH FLOW
	CLASS D PATCHES, TYPE II, 12 INCH		TEMPORARY RIPRAP
*SHADED PATTERNS AND LINESYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE			

MATCHLINE STATION 360 + 00

MATCHLINE STATION 373 + 00



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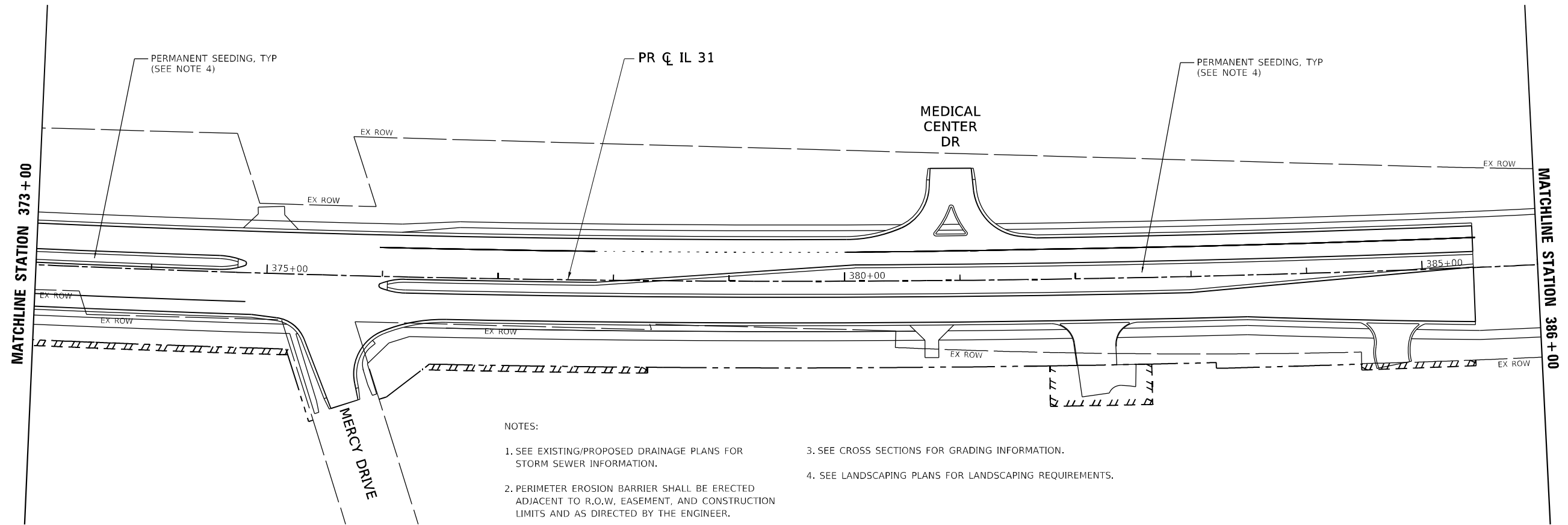


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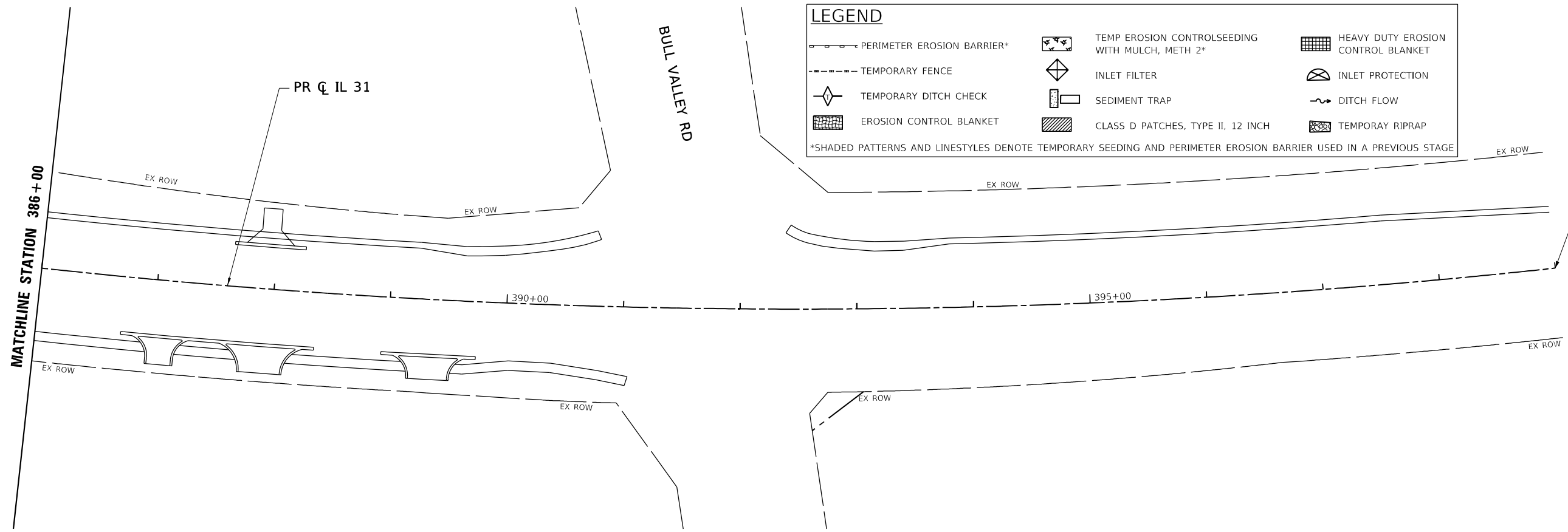
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 3 PLAN			
ILLINOIS ROUTE 31			
SCALE: 1"=50'	SHEET 6	OF 9 SHEETS	STA. 346+00 TO STA. 373+00

F.A.P. RTE. 336A	SECTION 2025-2127-R,C,TS,SW	COUNTY McHENRY	TOTAL SHEETS 553	SHEET NO. 237
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	



- NOTES:
1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
 2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
 3. SEE CROSS SECTIONS FOR GRADING INFORMATION.
 4. SEE LANDSCAPING PLANS FOR LANDSCAPING REQUIREMENTS.



LEGEND

— PERIMETER EROSION BARRIER*	TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*	HEAVY DUTY EROSION CONTROL BLANKET
- - - TEMPORARY FENCE	INLET FILTER	INLET PROTECTION
◇ TEMPORARY DITCH CHECK	SEDIMENT TRAP	~ DITCH FLOW
▨ EROSION CONTROL BLANKET	CLASS D PATCHES, TYPE II, 12 INCH	▩ TEMPORARY RIPRAP

*SHADED PATTERNS AND LIFESTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL STAGE 3 PLAN
ILLINOIS ROUTE 31**

SCALE: 1"=50' SHEET 7 OF 9 SHEETS STA. 373+00 TO STA. 397+00

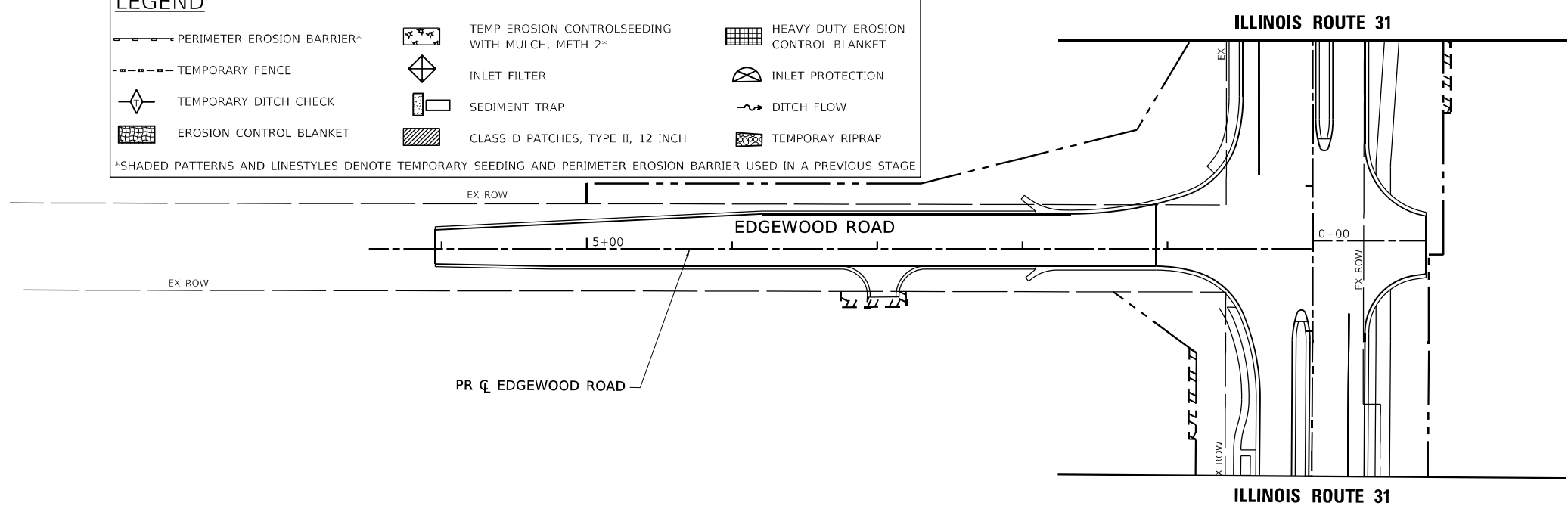
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	238
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

- NOTES:
1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
 2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
 3. SEE CROSS SECTIONS FOR GRADING INFORMATION.
 4. SEE LANDSCAPING PLANS FOR LANDSCAPING REQUIREMENTS.

LEGEND

	PERIMETER EROSION BARRIER*		TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2"		HEAVY DUTY EROSION CONTROL BLANKET
	TEMPORARY FENCE		INLET FILTER		INLET PROTECTION
	TEMPORARY DITCH CHECK		SEDIMENT TRAP		DITCH FLOW
	EROSION CONTROL BLANKET		CLASS D PATCHES, TYPE II, 12 INCH		TEMPORARY RIPRAP

*SHADED PATTERNS AND LIFESTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE



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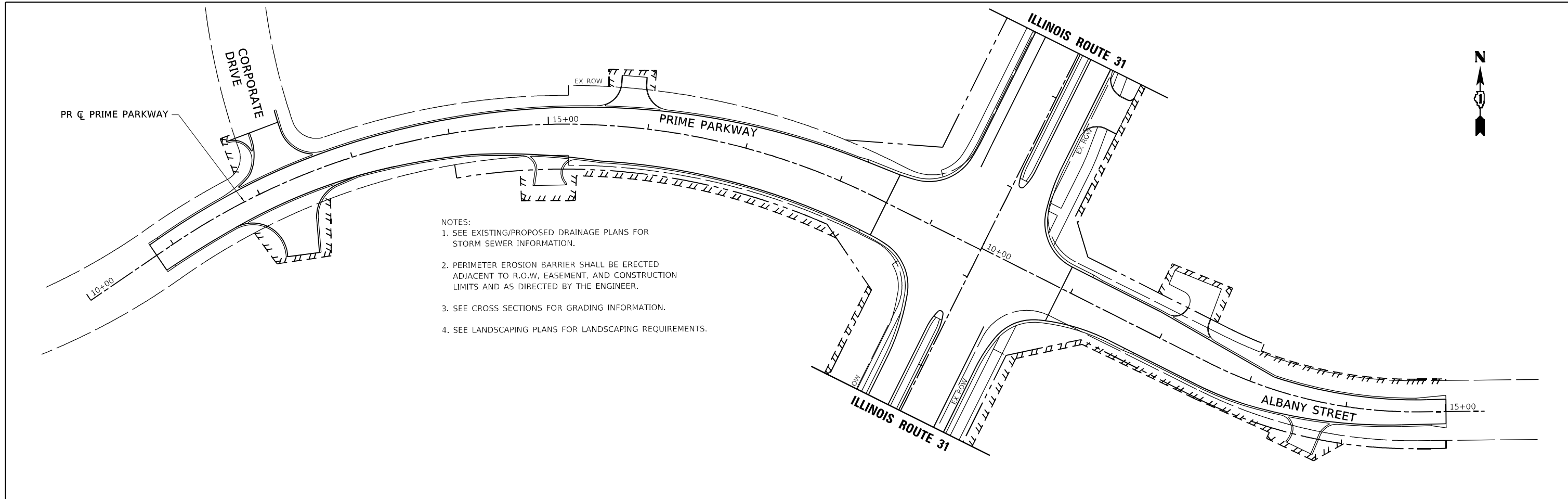


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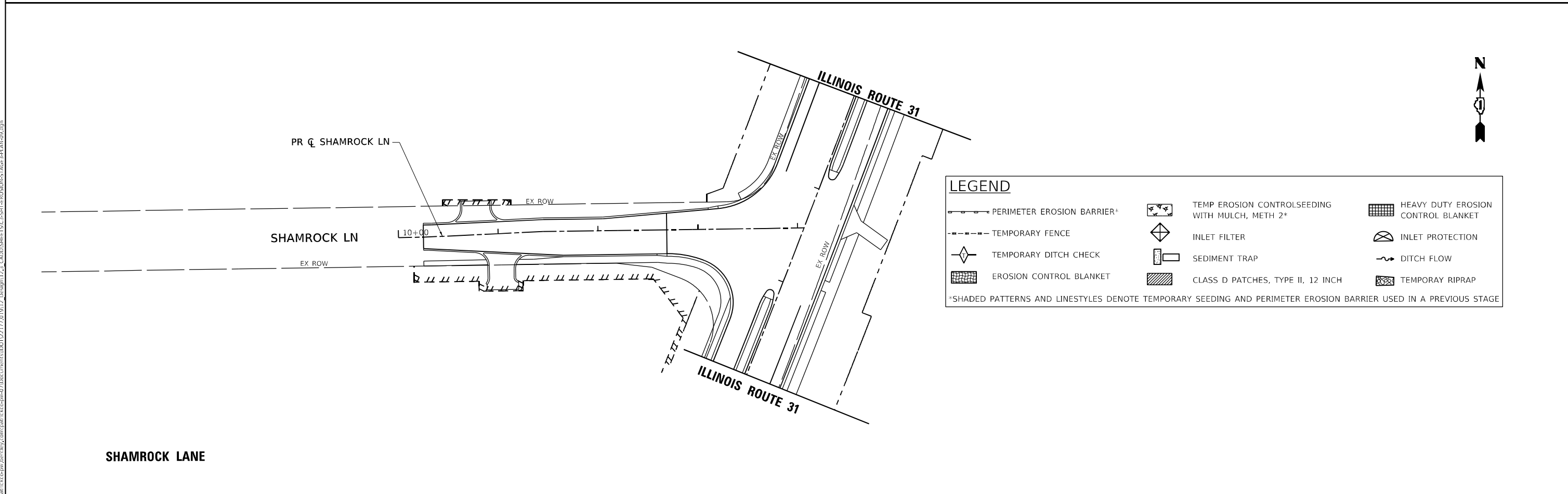
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 3 PLAN HALF MILE TRAIL /EDGEWOOD ROAD			
SCALE: 1"=50'	SHEET 8	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	239
CONTRACT NO. 80C85				
ILLINOIS		FED. AID PROJECT		



- NOTES:
1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
 2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
 3. SEE CROSS SECTIONS FOR GRADING INFORMATION.
 4. SEE LANDSCAPING PLANS FOR LANDSCAPING REQUIREMENTS.



LEGEND

	PERIMETER EROSION BARRIER*		TEMP EROSION CONTROL SEEDING WITH MULCH, METH 2*		HEAVY DUTY EROSION CONTROL BLANKET
	TEMPORARY FENCE		INLET FILTER		INLET PROTECTION
	TEMPORARY DITCH CHECK		SEDIMENT TRAP		DITCH FLOW
	EROSION CONTROL BLANKET		CLASS D PATCHES, TYPE II, 12 INCH		TEMPORARY RIPRAP

*SHADED PATTERNS AND LINESYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE

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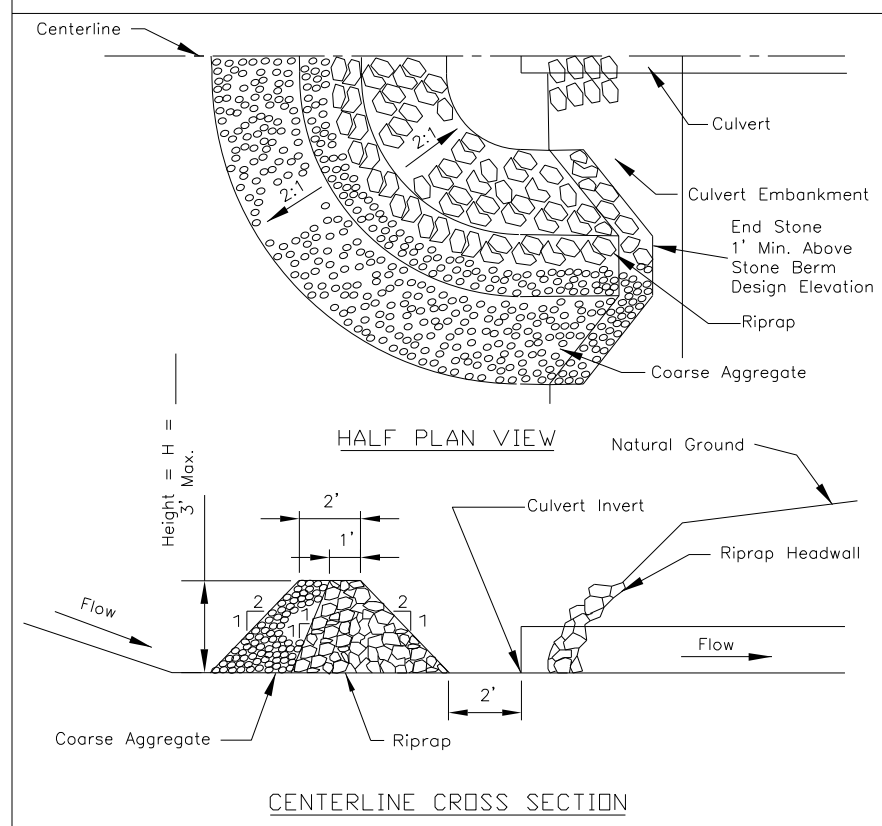
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL STAGE 3 PLAN
 PRIME PRKWAY /ALBANY ST & SHAMROCK LN**

SCALE: 1"=50' SHEET 9 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	240
CONTRACT NO. 80C85				
ILLINOIS FED. AID PROJECT				

CULVERT INLET PROTECTION - STONE

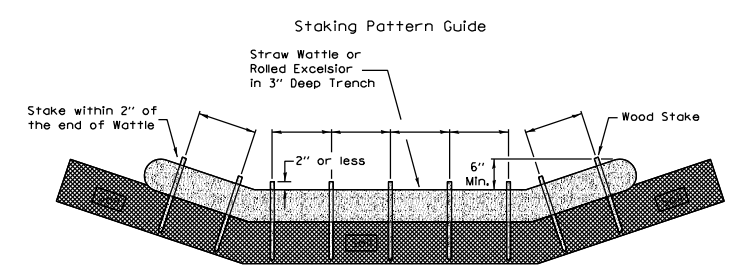


- Notes:
- Sediment shall be removed when the sediment has accumulated to one-half the height of the stone berm.
 - Coarse aggregate shall meet one of the following IDOT coarse aggregate gradations, CA-1, CA-2, CA-3 or CA-4.
 - Riprap shall meet IDOT gradation RR-3 or RR-4. Any permanent riprap, such as for the culvert headwall, shall meet IDOT Quality Designation A.
 - Coarse aggregate and riprap shall be placed according to construction specification 25 ROCKFILL using placement Method 1 and Class III compaction.
 - The maximum drainage area to the culvert being protected is 3 acres.
 - See plans for H dimension.
 - Tie the stone berm into the culvert embankment a minimum of 1 foot above the design elevation of the stone berm.

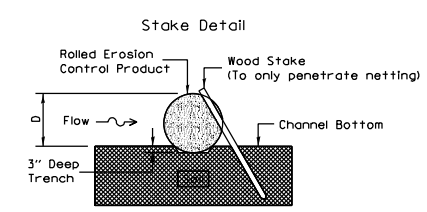
REFERENCE Project _____ Designed _____ Date _____ Checked _____ Date _____ Approved _____ Date _____	 NRCS Natural Resources Conservation Service	STANDARD DWG. NO. IL-508ST SHEET 1 OF 1 DATE 1-29-99
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NOTE:
CULVERT INLET PROTECTION SHALL BE PAID AS INLET AND PIPE PROTECTION.

ROLLED EROSION CONTROL PRODUCTS



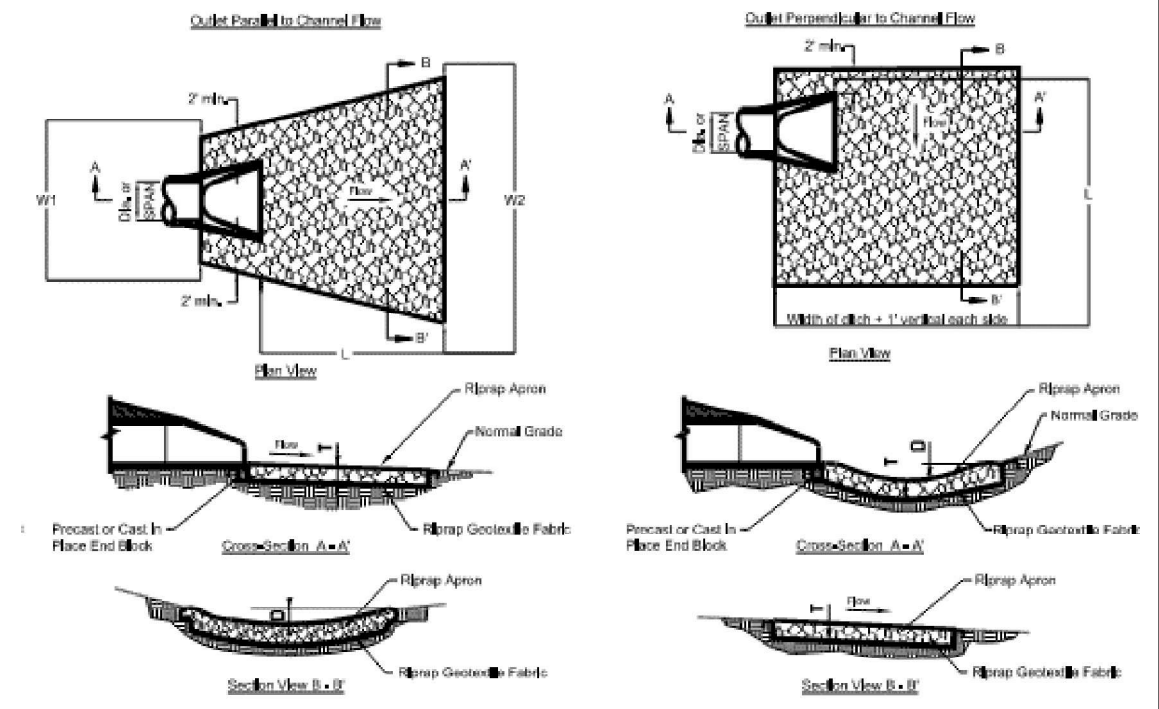
- Notes:
- Overlap minimum is the diameter of the roll.
 - 4' spacing for wattles.
 - 2' spacing for rolled excelsior.
 - Or space according to manufacturer's specifications.



- Notes:
- Drawings are not to scale.
 - Ends of wattles or rolled excelsior shall be turned at least 6" upslope.
 - Recommended stakes are 1 1/8" wide x 1 1/8" thick x 30" long.
 - Stakes shall not extend above the straw wattle more than 2".
 - Spacing: The toe of the upstream ditch check shall create a horizontal line with the top of the downstream ditch check.

REFERENCE Project _____ Designed _____ Date _____ Checked _____ Date _____ Approved _____ Date _____		STANDARD DWG. NO. IUM-514 SHEET 1 OF 1 DATE 2-19-18
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NOTE:
ROLLED EROSION CONTROL PRODUCTS SHALL BE PAID FOR TEMPERARY DITCH CHECKS.



ROCK OUTLET PROTECTION DETAIL N.T.S.

DIA. OF ROUND INLET PIPE (IN)	IDOT RIPRAP GRADATION (RR)	RIPRAP BED THICKNESS (IN)	APRON LENGTH (FT)	APRON WITH UPSTREAM (FT)	APRON WIDTH DOWNSTREAM (FT)	DEPTH BELOW NORMAL GRADE
		T	L	W1	W2	D
12	RR-5	15.0	12.0	5.0	11.0	6.0
15	RR-5	15.0	14.0	5.0	12.0	6.0
18	RR-5	15.0	16.0	5.5	13.5	7.0
24	RR-5	15.0	20.0	6.0	16.0	10.0
30	RR-5	20.0	22.0	6.0	17.0	11.0
36	RR-5	20.0	24.0	7.0	19.0	11.0
42	RR-5	20.0	26.0	7.0	22.0	14.0
48	RR-5	20.0	28.0	8.0	22.0	14.0

NOTE:
USE RR-7 AT ALL BOX CULVERT LOCATIONS

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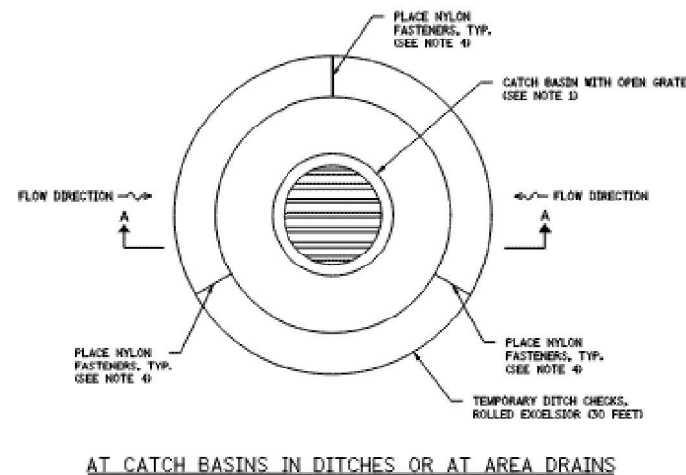
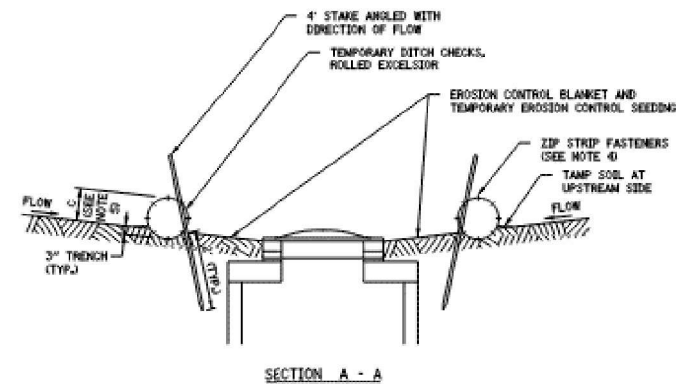
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EROSION AND SEDIMENT CONTROL DETAILS
ILLINOIS ROUTE 31**

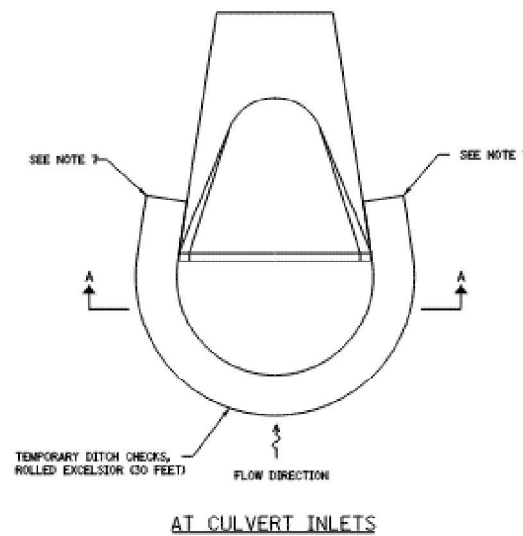
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	241
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

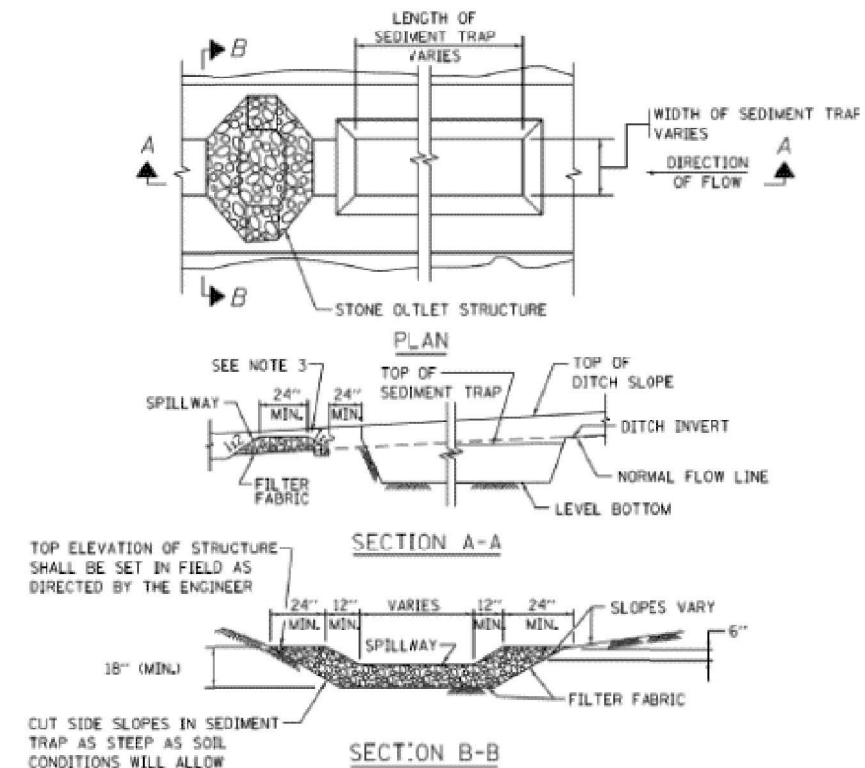


NOTES:

1. INLET FILTER IS TO BE PROVIDED FOR ALL OPEN-GATED DRAINAGE STRUCTURES.
2. ROLLED EXCELSIOR LOG SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 3" AND SOIL SHALL BE TAMPED AGAINST THE UPSTREAM SIDE TO ASSURE THAT STORM WATER IS FORCED THROUGH THE LOG, RATHER THAN UNDER IT.
3. STAKES SHALL BE 4' LONG, DRIVEN AT A SPACING OF 2' ON CENTER, 2' INTO THE GROUND. STAKES SHALL BE ENTWINED WITH THE MESH COVERING OF THE ROLL ON THE DOWNSTREAM SIDE AND ANGLED IN THE DIRECTION OF FLOW. WOOD STAKES TO BE A MINIMUM OF 1" SQUARE. METAL STAKES TO BE A MINIMUM OF 1" DIAMETER.
4. WHEN MORE THAN ONE LOG IS REQUIRED TO SURROUND THE INLET, BUTT LOGS TIGHTLY TOGETHER END TO END AND FASTEN TOGETHER WITH A MINIMUM OF EIGHT EQUALLY SPACED ZIP STRIP NYLON FASTENERS.
5. ROLLED EXCELSIOR LOG DITCH CHECKS ARE SUPPLIED IN STANDARD 10' LENGTHS AND SHOULD NOT BE CUT.
6. MAINTENANCE SHALL BE PERFORMED AS NEEDED AND SILT SHALL BE REMOVED WHEN IT REACHES 50% OF ROLL HEIGHT. WHEN EXCELSIOR ROLL HEIGHT BECOMES LESS THAN 10", IT SHALL BE REPLACED.
7. ROLLED EXCELSIOR LOG DITCH CHECKS SHALL BE SUFFICIENTLY LONG ENOUGH THAT THE TOP OF THE DEVICE IN THE MIDDLE OF THE DITCH IS 6" LOWER THAN THE BOTTOM OF THE TERMINATING ENDS OF THE DITCH SIDE SLOPES.



STORM DRAIN INLET PROTECTION DETAIL
SCALE=N.T.S.



NOTES:

1. USE IN EXISTING, PROPOSED AND TEMPORARY DITCHES OF ALL TYPES AS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
2. THE SEDIMENT TRAP SHALL BE REPLACED DUE TO WASHOUT, DAMAGE FROM CONSTRUCTION TRAFFIC, OR SILT ACCUMULATION. THE SILT SHALL BE REMOVED WHEN THE TRAP IS 50% FULL.
3. THIS COST TO PERFORM THIS WORK SHALL BE PAID FOR AS:
 - EARTH EXCAVATION FOR EROSION CONTROL
 - STONE RIPRAP, CLASS A4
 - FILTER FABRIC.
4. UPON COMPLETION OF CONSTRUCTION, ESTABLISHMENT OF FINAL STABILIZATION, AND WHEN DIRECTED BY THE ENGINEER, THE SEDIMENT TRAP SHALL BE REMOVED AND THE DITCH LINE RE-ESTABLISHED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE. THE COST TO COMPLETE THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE ITEMS LISTED ABOVE.

SEDIMENT TRAP

TRAP NO.	L (FT)	W (FT)	CAPACITY (CU FT)
1	127	55	17,325
2	115	40	11,500
3	58	24	3,480
4	235	14	8,225
5	150	10	3,750

DIMENSION NOTES:

1. ALL DIMENSIONS ARE BASED UPON AN AVERAGE DEPTH OF 30" AND PROVIDING, AS A MINIMUM, 3,600 CUBIC FEET OF STORAGE PER ACRE OF RUNOFF.
2. L AND W ARE MEASURED ALONG THE BOTTOM OF THE TRAP.
3. WHENEVER POSSIBLE, THE MAXIMUM AVERAGE DEPTH OF THE TRAP WILL BE 30".
4. THE MAXIMUM DRAINAGE AREA (INCLUDING OFF-SITE AREA) ALLOWED PER TRAP IS 5 ACRES.

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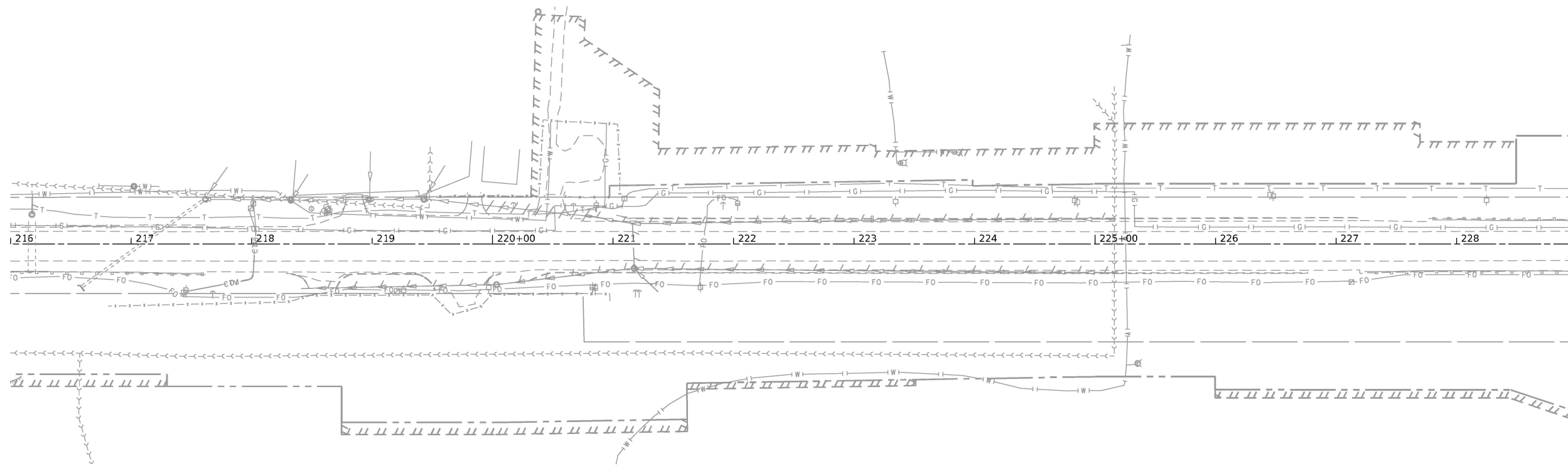
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

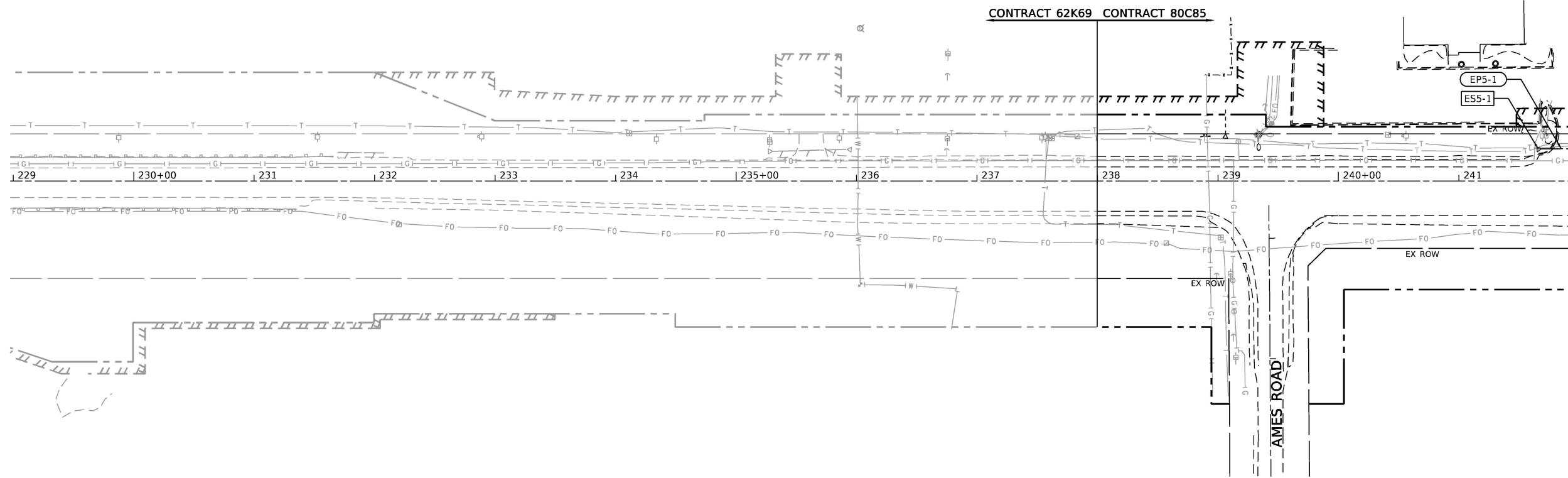
EROSION AND SEDIMENT CONTROL DETAILS
ILLINOIS ROUTE 31

SCALE: NTS SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	242
			CONTRACT NO. 80C85	
ILLINOIS FED. AID PROJECT				



EXISTING DRAINAGE LEGEND			
●	EXISTING MANHOLE	[ADJ]	DRAINAGE STRUCTURE TO BE ADJUSTED
○	EXISTING CATCH BASIN	[R]	DRAINAGE STRUCTURE TO BE REMOVED
=	EXISTING INLET	— —	STORM SEWER REMOVAL
◁	EXISTING END SECTION	— —	PIPE CULVERT REMOVAL
		— —	EXISTING STORM SEWER TO REMAIN
		XXXX	EXISTING STRUCTURE ID
		XXXX	EXISTING PIPE ID



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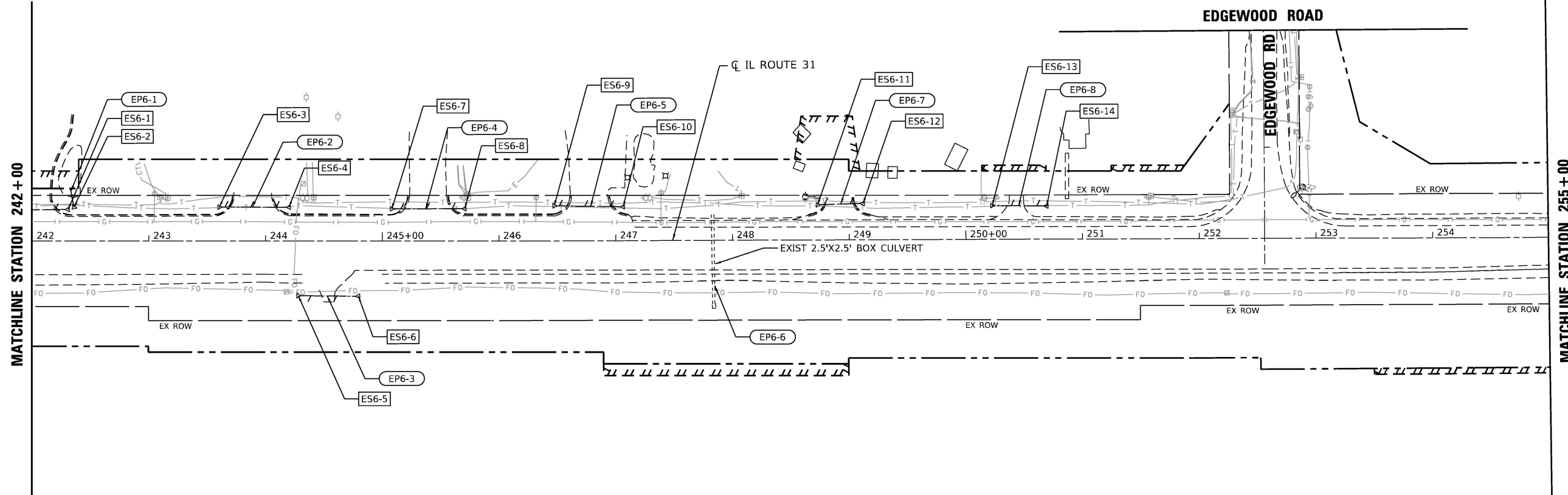


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

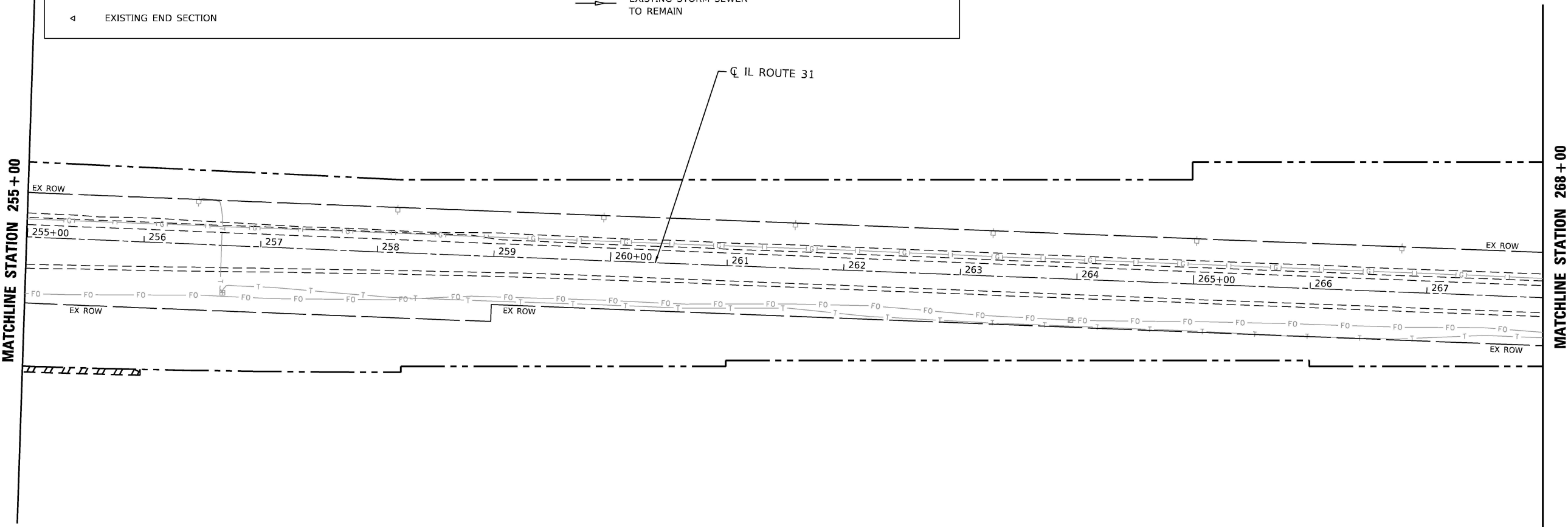
DRAINAGE REMOVAL PLAN			
ILLINOIS ROUTE 31			
SCALE: 1"=50'	SHEET 1	OF 9 SHEETS	STA. 216+00 TO STA. 242+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT			CONTRACT NO. 80C85	

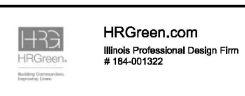


EXISTING DRAINAGE LEGEND

●	EXISTING MANHOLE	[ADJ]	DRAINAGE STRUCTURE TO BE ADJUSTED		STORM SEWER REMOVAL	[XXXX]	EXISTING STRUCTURE ID
○	EXISTING CATCH BASIN	[R]	DRAINAGE STRUCTURE TO BE REMOVED		PIPE CULVERT REMOVAL	(XXXX)	EXISTING PIPE ID
=	EXISTING INLET				EXISTING STORM SEWER TO REMAIN		
◁	EXISTING END SECTION						



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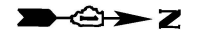


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

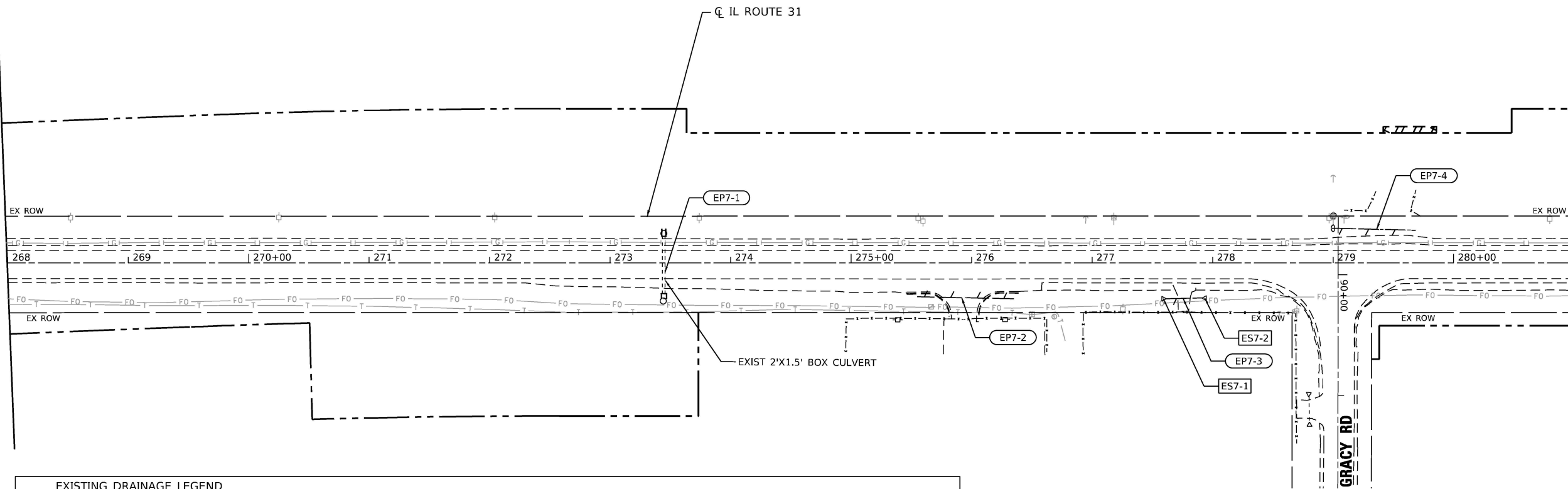
DRAINAGE REMOVAL PLAN ILLINOIS ROUTE 31			
SCALE: 1"=50'	SHEET 2	OF 9 SHEETS	STA. 242+00 TO STA. 268+00

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			CONTRACT NO.	80C85
ILLINOIS FED. AID PROJECT				

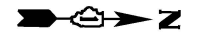


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MATCHLINE STATION 281+00

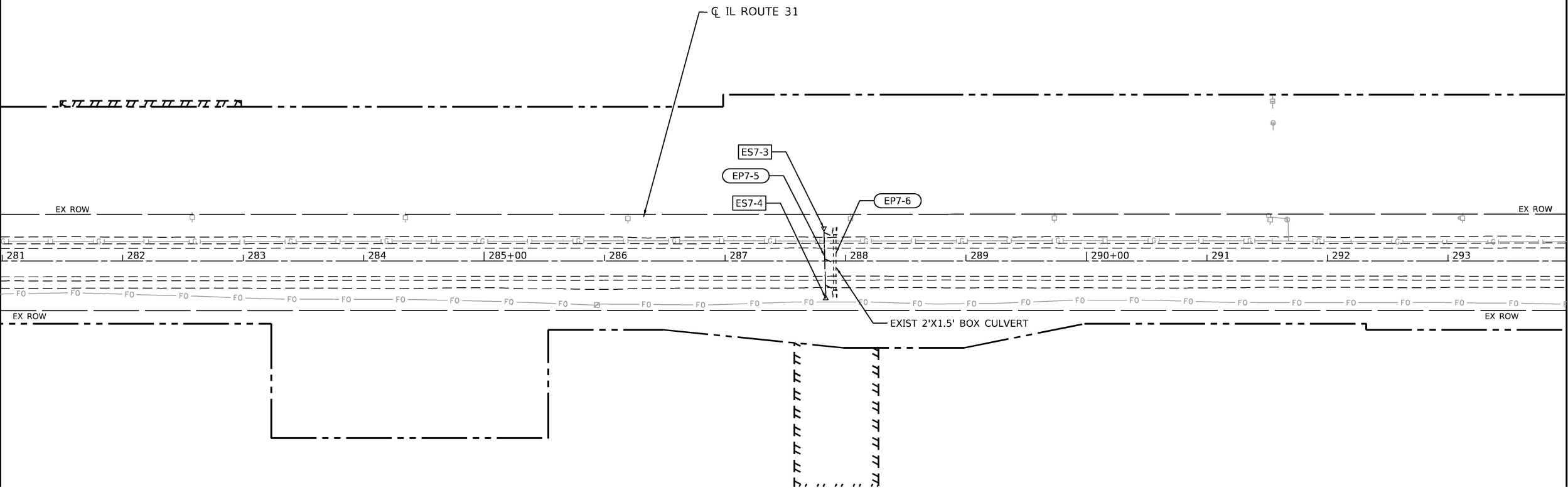


EXISTING DRAINAGE LEGEND			
●	EXISTING MANHOLE	[ADJ]	DRAINAGE STRUCTURE TO BE ADJUSTED
○	EXISTING CATCH BASIN	[R]	DRAINAGE STRUCTURE TO BE REMOVED
⊥	EXISTING INLET	---	STORM SEWER REMOVAL
◁	EXISTING END SECTION	---	PIPE CULVERT REMOVAL
		---	EXISTING STORM SEWER TO REMAIN
		XXXX	EXISTING STRUCTURE ID
		XXXX	EXISTING PIPE ID



MATCHLINE STATION 281+00

MATCHLINE STATION 294+00



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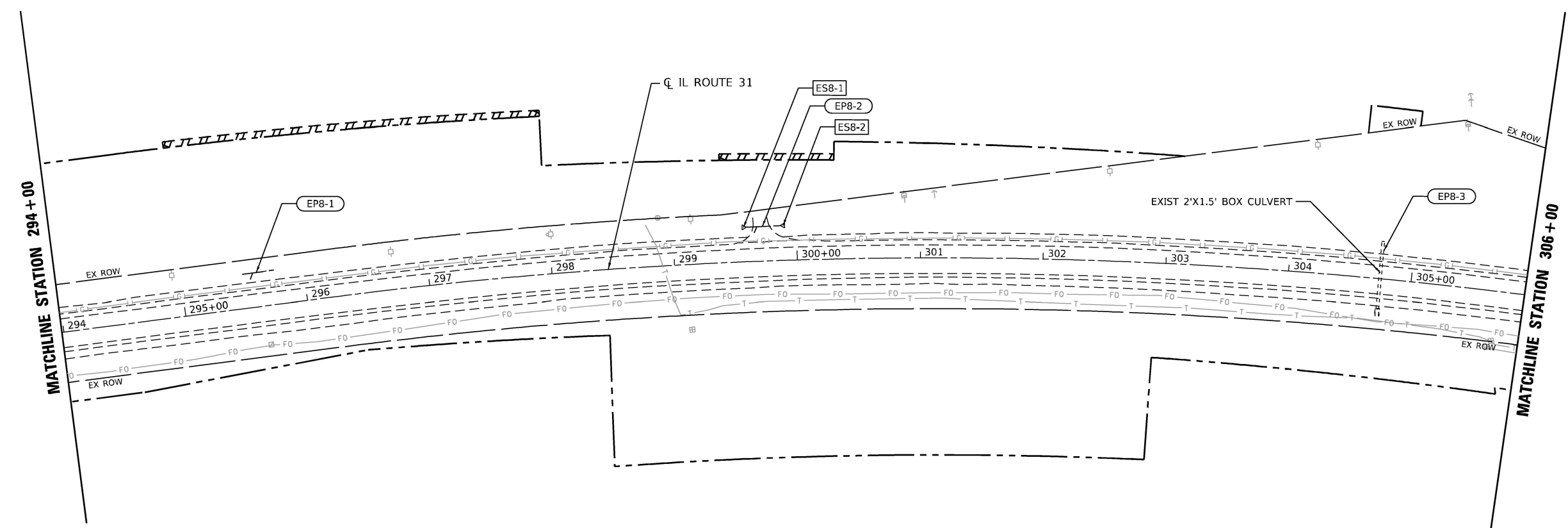


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

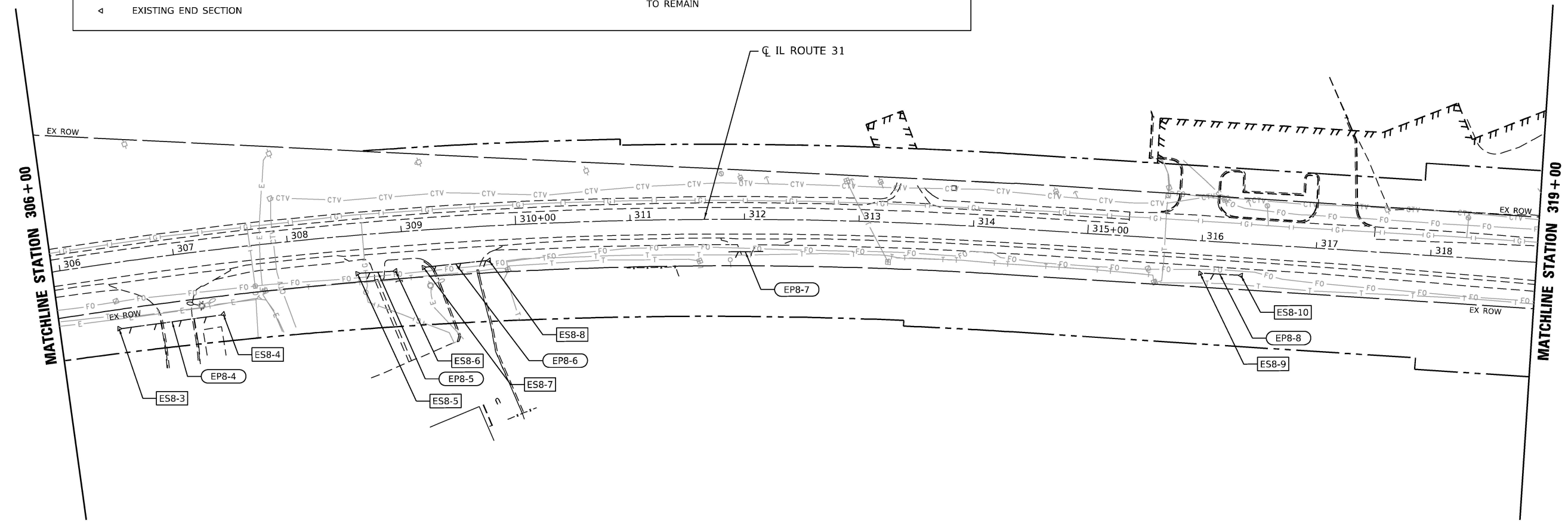
DRAINAGE REMOVAL PLAN			
ILLINOIS ROUTE 31			
SCALE: 1"=50'	SHEET 3	OF 9 SHEETS	STA. 268+00 TO STA. 294+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	246
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	



EXISTING DRAINAGE LEGEND

●	EXISTING MANHOLE	[ADJ]	DRAINAGE STRUCTURE TO BE ADJUSTED		STORM SEWER REMOVAL	XXXX	EXISTING STRUCTURE ID
○	EXISTING CATCH BASIN	[R]	DRAINAGE STRUCTURE TO BE REMOVED		PIPE CULVERT REMOVAL	XXXX	EXISTING PIPE ID
▭	EXISTING INLET				EXISTING STORM SEWER TO REMAIN		
△	EXISTING END SECTION						



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE REMOVAL PLAN
ILLINOIS ROUTE 31**

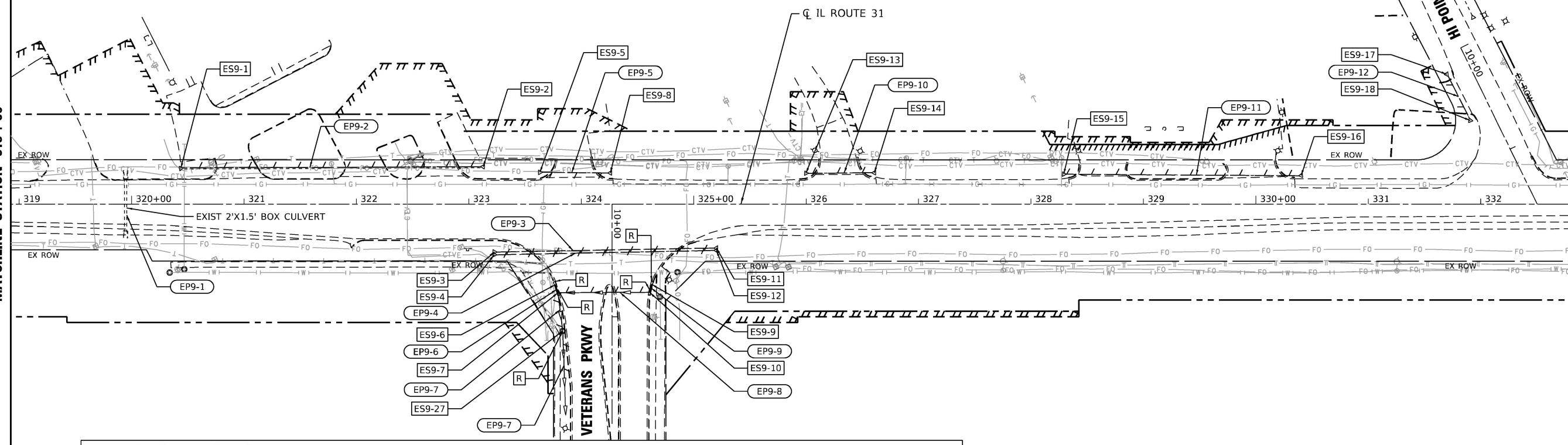
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	247
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80C85	



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MATCHLINE STATION 333+00

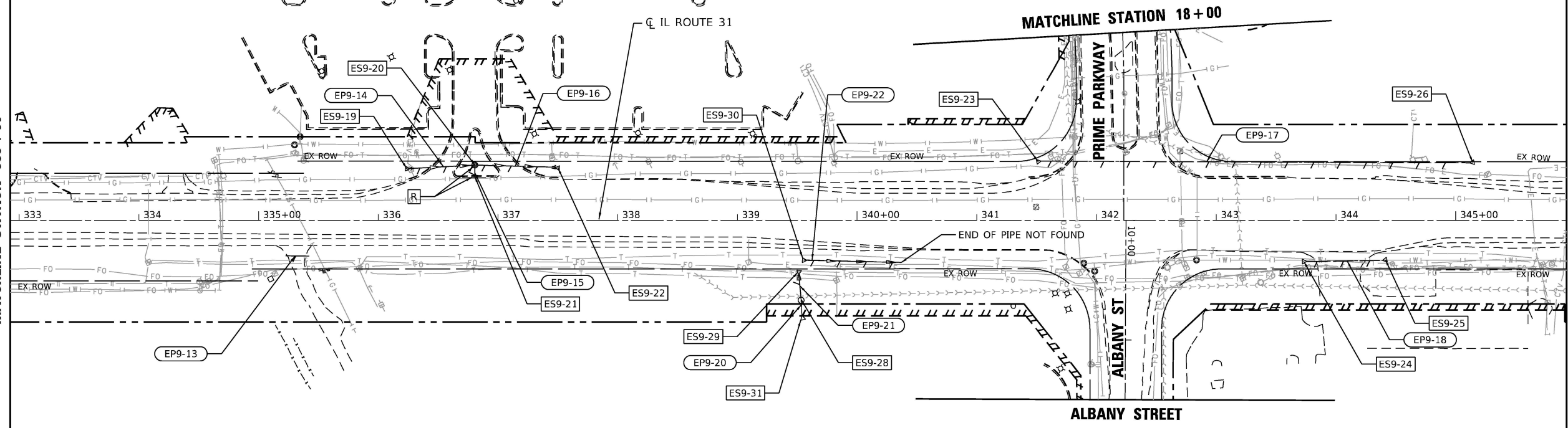


EXISTING DRAINAGE LEGEND

●	EXISTING MANHOLE	[ADJ]	DRAINAGE STRUCTURE TO BE ADJUSTED	---	STORM SEWER REMOVAL	XXXX	EXISTING STRUCTURE ID
○	EXISTING CATCH BASIN	[R]	DRAINAGE STRUCTURE TO BE REMOVED	---	PIPE CULVERT REMOVAL	XXXX	EXISTING PIPE ID
=	EXISTING INLET			---	EXISTING STORM SEWER TO REMAIN		
△	EXISTING END SECTION						

MATCHLINE STATION 333+00

MATCHLINE STATION 346+00



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE REMOVAL PLAN
ILLINOIS ROUTE 31**

SCALE: 1"=50' SHEET 5 OF 9 SHEETS STA. 319+00 TO STA. 346+00

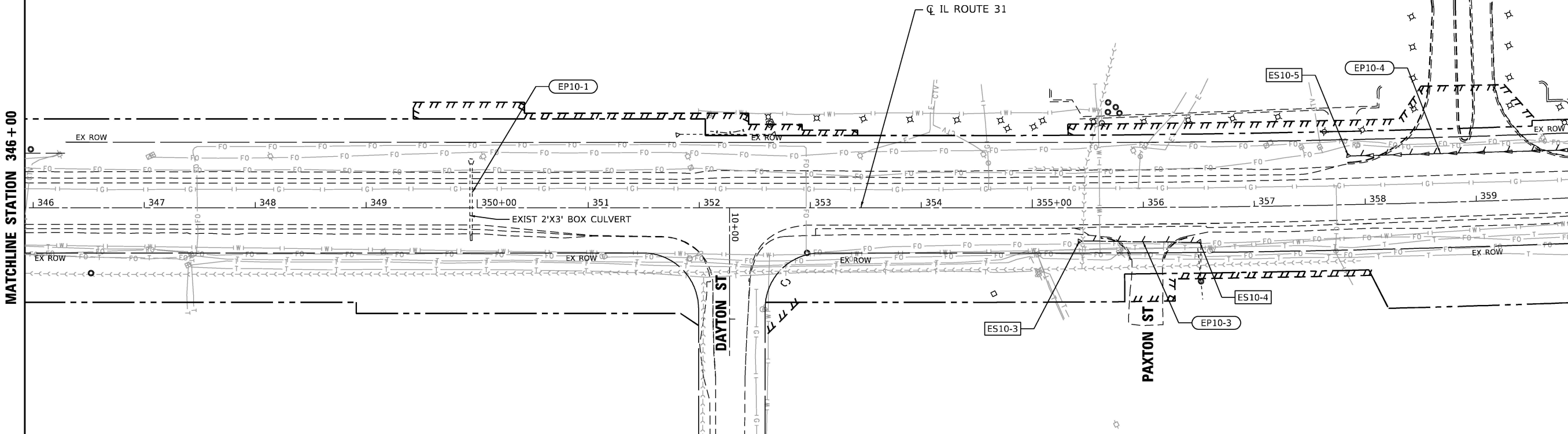
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336A	2025-2127-R,C,TS,SW	McHENRY	553	248
CONTRACT NO. 80C85				

ILLINOIS FED. AID PROJECT



MATCHLINE STATION 346 + 00

MATCHLINE STATION 360 + 00



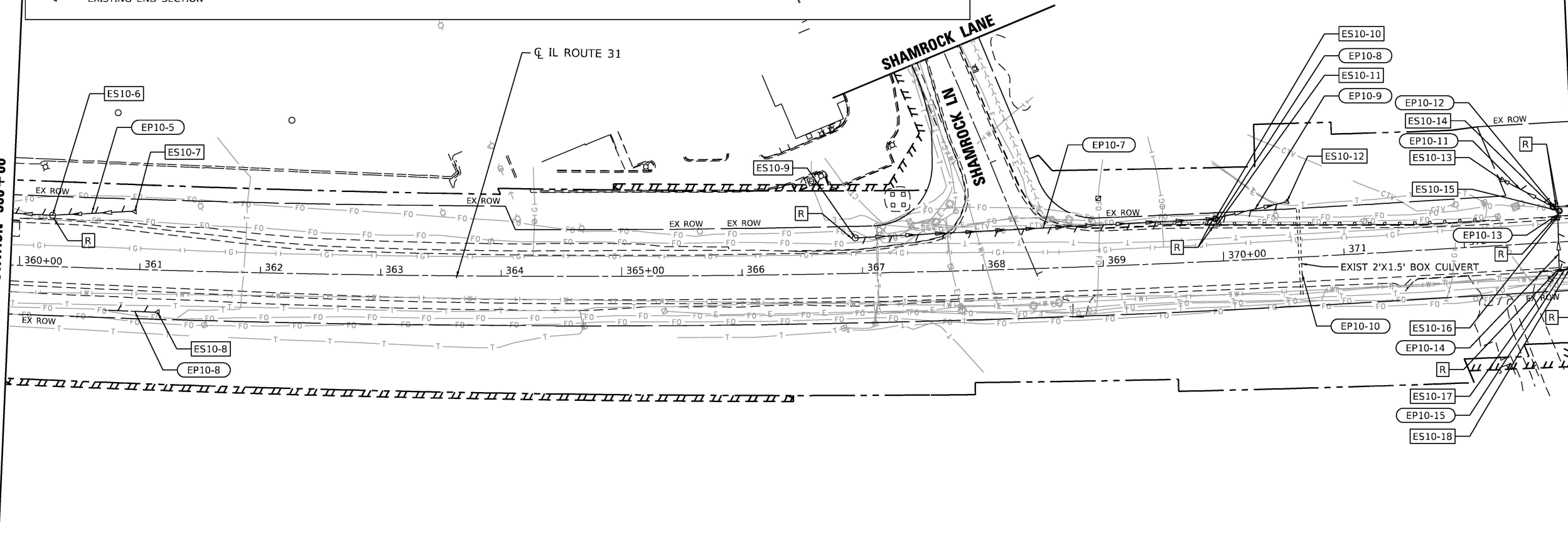
EXISTING DRAINAGE LEGEND

●	EXISTING MANHOLE	[ADJ]	DRAINAGE STRUCTURE TO BE ADJUSTED		STORM SEWER REMOVAL	[XXXX]	EXISTING STRUCTURE ID
○	EXISTING CATCH BASIN	[R]	DRAINAGE STRUCTURE TO BE REMOVED		PIPE CULVERT REMOVAL	(XXXX)	EXISTING PIPE ID
=	EXISTING INLET				EXISTING STORM SEWER TO REMAIN		
◄	EXISTING END SECTION						



MATCHLINE STATION 360 + 00

MATCHLINE STATION 373 + 00



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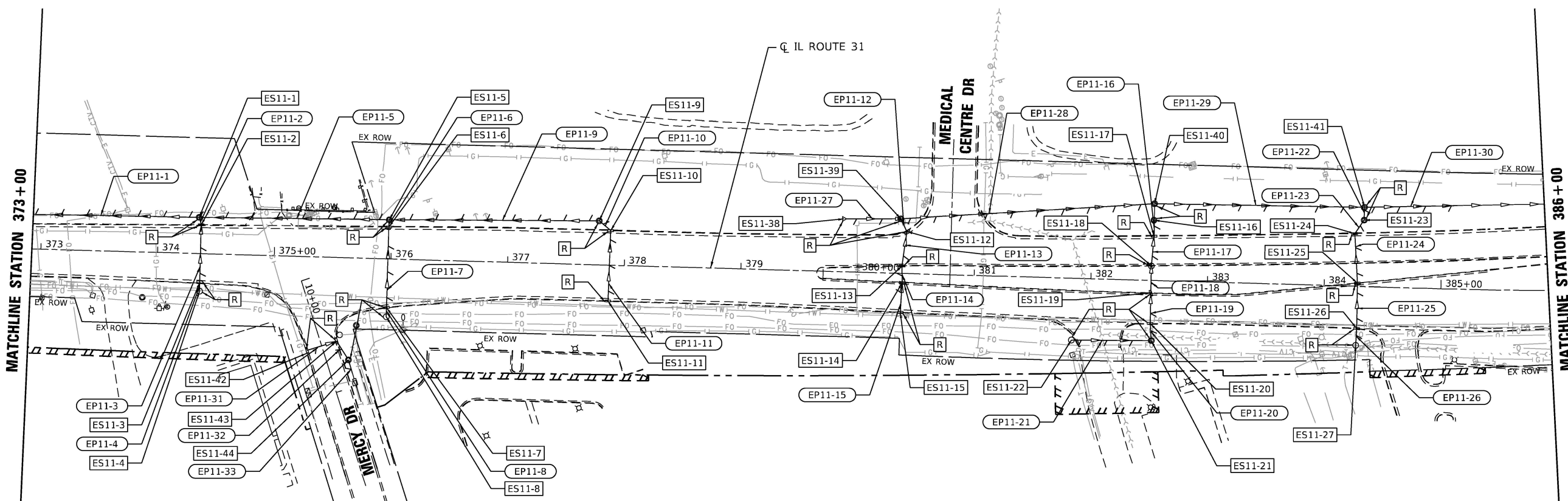
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PLOT DATE = 12/19/2025	CHECKED - TEH	REVISED -
	DATE - 04/30/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE REMOVAL PLAN
ILLINOIS ROUTE 31**

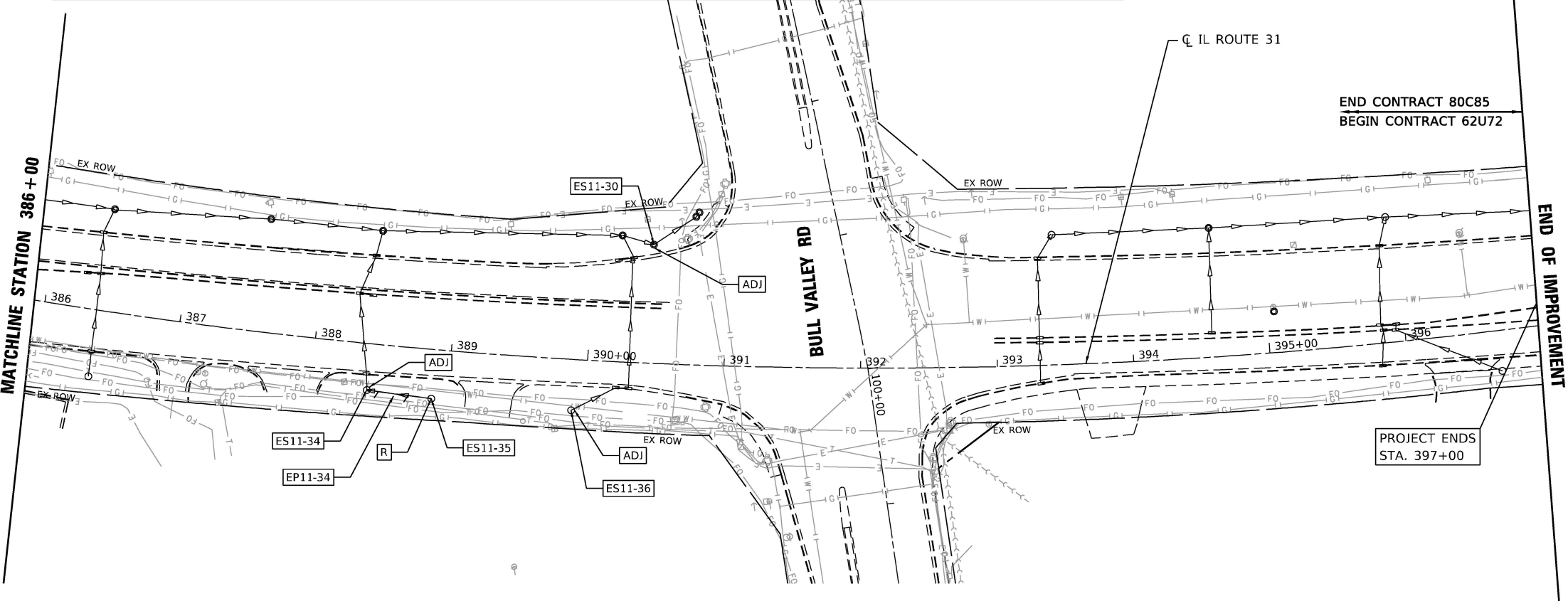
SCALE: 1"=50' SHEET 6 OF 9 SHEETS STA. 346+00 TO STA. 373+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	249
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80C85	



EXISTING DRAINAGE LEGEND

●	EXISTING MANHOLE	[ADJ]	DRAINAGE STRUCTURE TO BE ADJUSTED	---	STORM SEWER REMOVAL	[XXXX]	EXISTING STRUCTURE ID
○	EXISTING CATCH BASIN	[R]	DRAINAGE STRUCTURE TO BE REMOVED	---	PIPE CULVERT REMOVAL	(XXXX)	EXISTING PIPE ID
=	EXISTING INLET			---	EXISTING STORM SEWER TO REMAIN		
◄	EXISTING END SECTION						



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	DATE - 04/30/2024	REVISED -

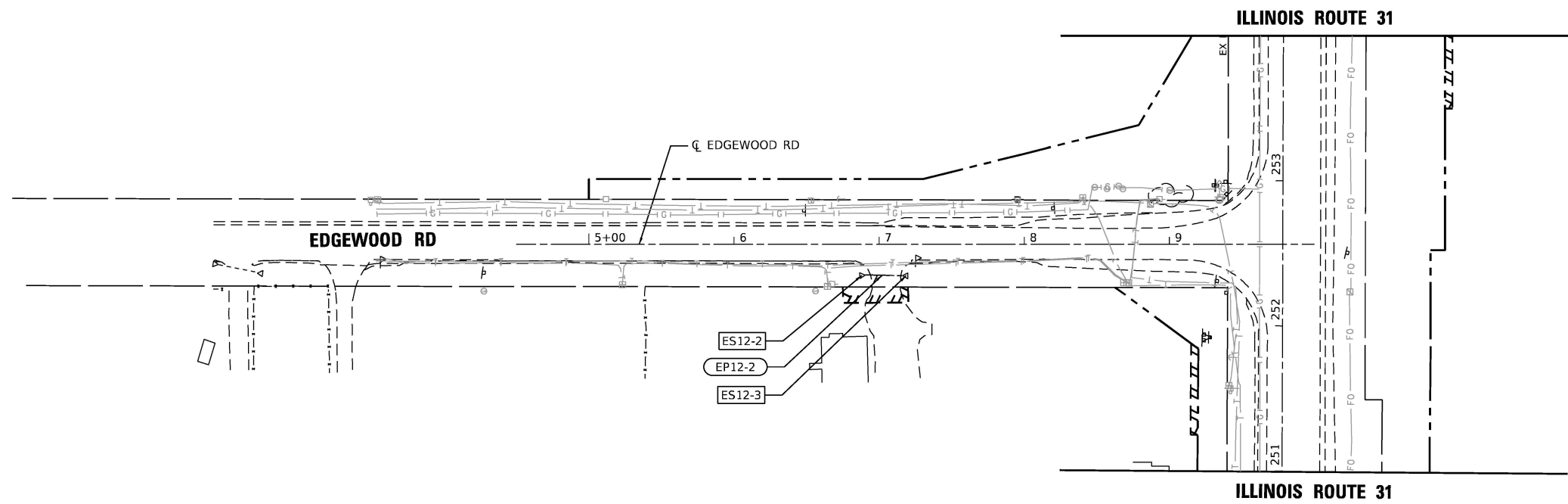
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN
ILLINOIS ROUTE 31

SCALE: 1"=50' SHEET 7 OF 9 SHEETS STA. 373+00 TO STA. 397+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	250
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

EXISTING DRAINAGE LEGEND			
●	EXISTING MANHOLE	[ADJ]	DRAINAGE STRUCTURE TO BE ADJUSTED
○	EXISTING CATCH BASIN	[R]	DRAINAGE STRUCTURE TO BE REMOVED
▭	EXISTING INLET		
◁	EXISTING END SECTION		
			STORM SEWER REMOVAL
			PIPE CULVERT REMOVAL
			EXISTING STORM SEWER TO REMAIN
		[XXXX]	EXISTING STRUCTURE ID
		(XXXX)	EXISTING PIPE ID



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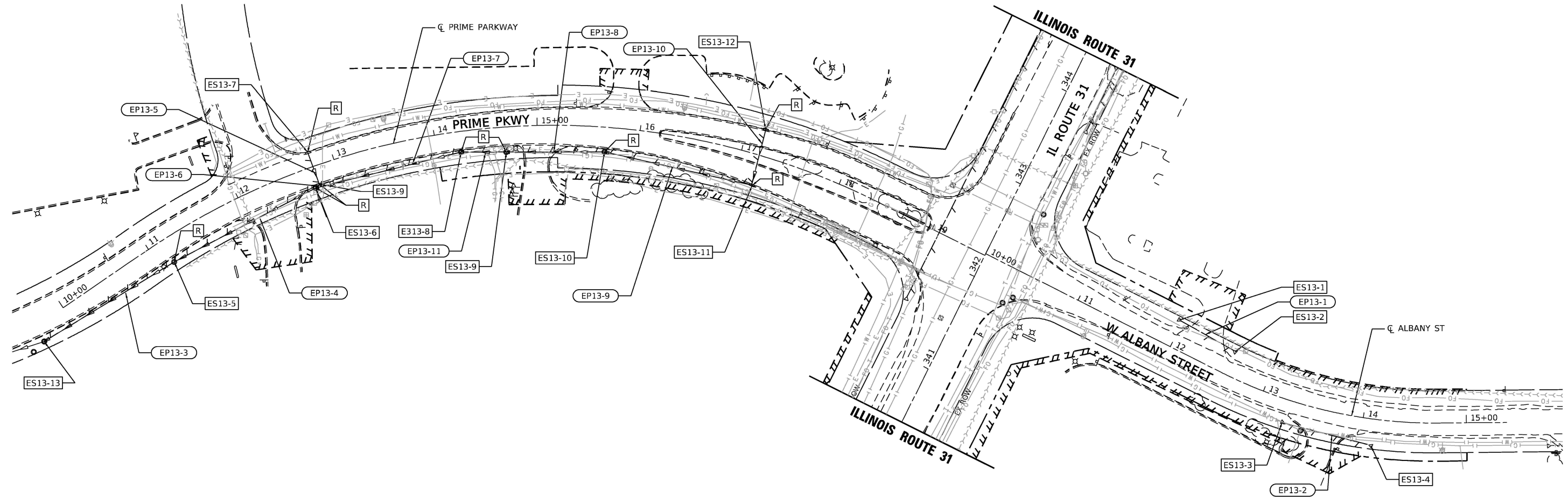


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DRAWN - HRG	REVISOR -	
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PLOT DATE = 12/19/2025	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN			
HALF MILE TRAIL / EDGEWOOD ROAD			
SCALE: 1"=50'	SHEET 8	OF 9 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	251
CONTRACT NO.			80C85	
ILLINOIS FED. AID PROJECT				



EXISTING DRAINAGE LEGEND			
●	EXISTING MANHOLE	[ADJ]	DRAINAGE STRUCTURE TO BE ADJUSTED
○	EXISTING CATCH BASIN	[R]	DRAINAGE STRUCTURE TO BE REMOVED
▬	EXISTING INLET	---	STORM SEWER REMOVAL
◄	EXISTING END SECTION	---	PIPE CULVERT REMOVAL
		---	EXISTING STORM SEWER TO REMAIN
		XXXX	EXISTING STRUCTURE ID
		XXXX	EXISTING PIPE ID

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USER NAME = mzuizzo	DESIGNED - DMS	REVISED -
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PLOT DATE = 12/19/2025	CHECKED - TEH	REVISED -
	DATE - 04/30/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE REMOVAL PLAN
PRIME PRKWY /ALBANY STREET**


SCALE: 1"=50' SHEET 9 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	252
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

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STRUCTURE NUMBER	STATION	OFFSET	BASELINE	REMOVING MANHOLES 60500040	REMOVING CATCH BASINS 60500050	REMOVING INLETS 60500060	REMOVE EXISTING FLARED END SECTIONS X0322936	CONCRETE HEADWALL REMOVAL 50104400	CATCH BASINS ADJUSTED W/ TYPE 8 F & G 60251200	MANHOLES TO BE ADJUSTED W/ TYPE 1 CLOSED LID 60255800	ELEVATION	COMMENTS
				EACH	EACH	EACH	EACH	EACH	EACH	EACH		
EXISTING DRAINAGE REMOVAL PLAN SHEET 1 - IL 31												
ES5-1	241+66	-26.3	X_IL31	0	0	0	1	0	0	0		
SHEET 5 TOTALS				0	0	0	1	0	0	0		
EXISTING DRAINAGE REMOVAL PLAN SHEET 2 - IL 31												
ES6-1	242+31	-27.1	X_IL31				1					
ES6-2	242+36	-29.0	X_IL31				1					
ES6-3	243+60	-29.2	X_IL31				1					
ES6-4	244+20	-29.0	X_IL31				1					
ES6-5	244+28	46.6	X_IL31				1					
ES6-6	244+79	47.0	X_IL31				1					
ES6-7	245+08	-27.7	X_IL31				1					
ES6-8	245+71	-27.9	X_IL31				1					
ES6-9	246+47	-30.2	X_IL31				1					
ES6-10	247+06	-29.0	X_IL31				1					
ES6-11	248+73	-30.1	X_IL31				1					
ES6-12	249+12	-31.1	X_IL31				1					
ES6-13	250+23	-29.0	X_IL31				1					
ES6-14	250+69	-28.5	X_IL31				1					
SHEET 6 TOTALS				0	0	0	14	0	0	0		
EXISTING DRAINAGE REMOVAL PLAN SHEET 3 - IL 31												
ES7-1	277+59	29.6	X_IL31				1					
ES7-2	277+94	29.1	X_IL31				1					
ES7-3	287+82	-27.1	X_IL31				1					
ES7-4	287+84	31.0	X_IL31				1					
SHEET 7 TOTALS				0	0	0	4	0	0	0		
EXISTING DRAINAGE REMOVAL PLAN SHEET 4 - IL 31												
ES8-1	299+57	-28.1	X_IL31				1					
ES8-2	299+89	-28.4	X_IL31				1					
ES8-3	306+44	57.5	X_IL31				1					
ES8-4	307+37	56.8	X_IL31				1					
ES8-5	308+59	33.5	X_IL31				1					
ES8-6	308+92	33.8	X_IL31				1					
ES8-7	309+17	32.5	X_IL31				1					
ES8-8	309+75	30.1	X_IL31				1					
ES8-9	316+00	28.5	X_IL31				1					
ES8-10	316+36	28.1	X_IL31				1					
SHEET 8 TOTALS				0	0	0	10	0	0	0		
EXISTING DRAINAGE REMOVAL PLAN SHEET 5 - IL 31												
ES9-1	320+44	-31.8	X_IL31				1					
ES9-2	323+13	-33.3	X_IL31				1					
ES9-3	323+23	42.3	X_IL31				1					
ES9-4	323+23	44.8	X_IL31				1					
ES9-5	323+63	-28.3	X_IL31				1					
ES9-6	323+77	71.3	X_IL31			1						
ES9-7	323+79	78.6	X_IL31			1						
ES9-8	324+26	-27.8	X_IL31				1					
ES9-9	324+63	71.1	X_IL31			1						
ES9-10	324+61	78.4	X_IL31			1						
ES9-11	325+20	38.8	X_IL31				1					
ES9-12	325+20	41.0	X_IL31				1					
ES9-13	326+00	-27.6	X_IL31				1					
ES9-14	326+61	-28.0	X_IL31				1					
ES9-15	328+29	-26.7	X_IL31				1					
ES9-16	330+40	-25.6	X_IL31				1					
ES9-17	331+70	-115.6	X_IL31				1					
ES9-18	331+91	-74.5	X_IL31				1					
ES9-19	336+24	-43.3	X_IL31				1					
ES9-20	336+81	-46.3	X_IL31	1								
ES9-21	336+81	-36.8	X_IL31			1						
ES9-22	337+51	-43.9	X_IL31				1					
ES9-23	341+51	-49.2	X_IL31				1					
ES9-24	343+73	34.4	X_IL31				1					
ES9-25	344+41	33.0	X_IL31				1					
ES9-26	345+14	-48.5	X_IL31				1					
ES9-27	323+84	112.6	X_IL31	1								

STRUCTURE NUMBER	STATION	OFFSET	BASELINE	REMOVING MANHOLES 60500040	REMOVING CATCH BASINS 60500050	REMOVING INLETS 60500060	REMOVE EXISTING FLARED END SECTIONS X0322936	CONCRETE HEADWALL REMOVAL 50104400	CATCH BASINS ADJUSTED W/ TYPE 8 F & G 60251200	MANHOLES TO BE ADJUSTED W/ TYPE 1 CLOSED LID 60255800	ELEVATION	COMMENTS
				EACH	EACH	EACH	EACH	EACH	EACH	EACH		
ES9-28	339+53	66.79	X_IL31		1							
ES9-29	339+53	43.7	X_IL31				1					
ES9-30	339+53	34.7	X_IL31				1					
ES9-31	339+53	80	X_IL31									END SECTION TO REMAIN
SHEET 9 TOTALS				2	1	5	22	0	0	0		
EXISTING DRAINAGE REMOVAL PLAN SHEET 6 - IL 31												
ES10-3	355+42	29.9	X_IL31				1					
ES10-4	356+50	31.0	X_IL31				1					
ES10-5	357+85	-44.2	X_IL31				1					
ES10-6	360+26	-42.6	X_IL31		1							
ES10-7	360+94	-48.2	X_IL31				1					
ES10-8	361+16	34.9	X_IL31				1					
ES10-9	366+95	-29.5	X_IL31		1							
ES10-10	369+95	-35.3	X_IL31	1								
ES10-11	369+96	-30.1	X_IL31			1						
ES10-12	370+55	-46.6	X_IL31				1					
ES10-13	372+35	-54.1	X_IL31				1					
ES10-14	372+75	-29.4	X_IL31	1								
ES10-15	372+80	-25.8	X_IL31	1								
ES10-16	372+79	-21.1	X_IL31				1					
ES10-17	372+77	23.6	X_IL31				1					
ES10-18	372+87	22.2	X_IL31				1					
SHEET 10 TOTALS				3	2	4	7	0	0	0		
EXISTING DRAINAGE REMOVAL PLAN SHEET 7 - IL 31												
ES11-1	374+35	-31.1	X_IL31	1								
ES11-2	374+37	-24.7	X_IL31			1						
ES11-3	374+37	24.3	X_IL31			1						
ES11-4	374+37	32.0	X_IL31		1							
ES11-5	375+98	-33.6	X_IL31	1								
ES11-6	375+97	-27.3	X_IL31			1						
ES11-7	375+97	41.5	X_IL31			1						
ES11-8	375+97	49.4	X_IL31		1							
ES11-9	377+77	-37.7	X_IL31	1								
ES11-10	377+87	-29.7	X_IL31				1					
ES11-11	377+87	30.5	X_IL31				1					
ES11-12	380+41	-35.9	X_IL31				1					
ES11-13	380.38	-6.4	X_IL31				1					
ES11-14	380+38	7.9	X_IL31				1					
ES11-15	380+38	33.2	X_IL31				1					
ES11-16	382+53	-51.7	X_IL31	1								
ES11-17	382+53	-38.1	X_IL31				1					
ES11-18	382+51	-12.4	X_IL31		1							
ES11-19	382+52	10.7	X_IL31				1					
ES11-20	382+52	36.7	X_IL31				1					
ES11-21	382+53	51.3	X_IL31	1								
ES11-22	381+85	52.8	X_IL31		1							
ES11-23	384+33	-56.8	X_IL31	1								
ES11-24	384+25	-44.9	X_IL31				1					
ES11-25	384+28	-2.6	X_IL31				1					
ES11-26	384+29	36.0	X_IL31				1					
ES11-27	384+28	50.5	X_IL31		1							


HRGreen.com
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 #154-001922

USER NAME = mzuzlo	DESIGNED - DMS	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - HRG	REVISED -
PLOT DATE = 12/19/2025	CHECKED - TEH	REVISED -
	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL SCHEDULES
STRUCTURE REMOVAL SCHEDULE

SCALE: NTS SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	253
CONTRACT NO.			80C85	
ILLINOIS		FED. AID PROJECT		

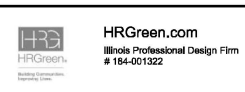
STRUCTURE NUMBER	STATION	OFFSET	BASELINE	REMOVING MANHOLES 60500040	REMOVING CATCH BASINS 60500050	REMOVING INLETS 60500060	REMOVE EXISTING FLARED END SECTIONS X0322936	CONCRETE HEADWALL REMOVAL 50104400	CATCH BASINS ADJUSTED W/ TYPE B F & G 60251200	MANHOLES TO BE ADJUSTED W/ TYPE 1 CLOSED LID 60255800	ELEVATION	COMMENTS
				EACH	EACH	EACH	EACH	EACH	EACH	EACH		
ES11-30	390+45	-87.0	X_IL31							1	831.2	
ES11-34	388+42	34.0	X_IL31						1		834.3	
ES11-35	388+88	36.0	X_IL31		1							
ES11-36	389+90	37.3	X_IL31		1							
ES11-38	379+87	-45.3	X_IL31				1					
ES11-39	380+36	-46.8	X_IL31	1								
ES11-40	382+53	-65.8	X_IL31	1								
ES11-41	384+33	-67.8	X_IL31	1								
ES11-42	375+30	80.1	X_IL31			1						
ES11-43	375+55	71.5	X_IL31			1						
ES11-44	375+66	87.2	X_IL31	1								
SHEET 11 TOTALS				10	7	18	1	0	1	1		

EXISTING DRAINAGE REMOVAL PLAN SHEET 8 - EDGEWOOD RD												
ES12-2	6+88	21.4	X_EDGEWOOD				1					
ES12-3	7+19	21.6	X_EDGEWOOD				1					
SHEET 12 TOTALS				0	0	0	2	0	0	0		

EXISTING DRAINAGE REMOVAL PLAN SHEET 9 - W ALBANY ST/PRIME PRKWY												
ES13-1	11+96	-27.0	X_ALBANY				1					
ES13-2	12+58	-23.6	X_ALBANY				1					
ES13-3	13+26	22.3	X_ALBANY				1					
ES13-4	14+11	25.9	X_ALBANY				1					
ES13-5	11+14	23.8	X_PRIME	1								
ES13-6	12+74	20.1	X_PRIME	1								
ES13-7	12+79	-14.3	X_PRIME			1						
ES13-8	14+24	20.0	X_PRIME	1								
ES13-9	14+69	24.3	X_PRIME			1						
ES13-10	15+67	23.9	X_PRIME	1								
ES13-11	17+19	29.9	X_PRIME	1								
ES13-12	17+17	-25.6	X_PRIME			1						
ES13-13	9+73	16.7	X_PRIME									STRUCTURE TO REMAIN
SHEET 13 TOTALS				5	0	3	4	0	0	0		
TOTALS				20	10	30	65	0	1	1		

TRENCH BACKFILL FOR REMOVAL IS PROVIDED AT LOCATIONS UNDER THE PAVEMENT WHERE THE STORM SEWER WILL NOT BE REPLACED.

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 Illinois Professional Design Firm
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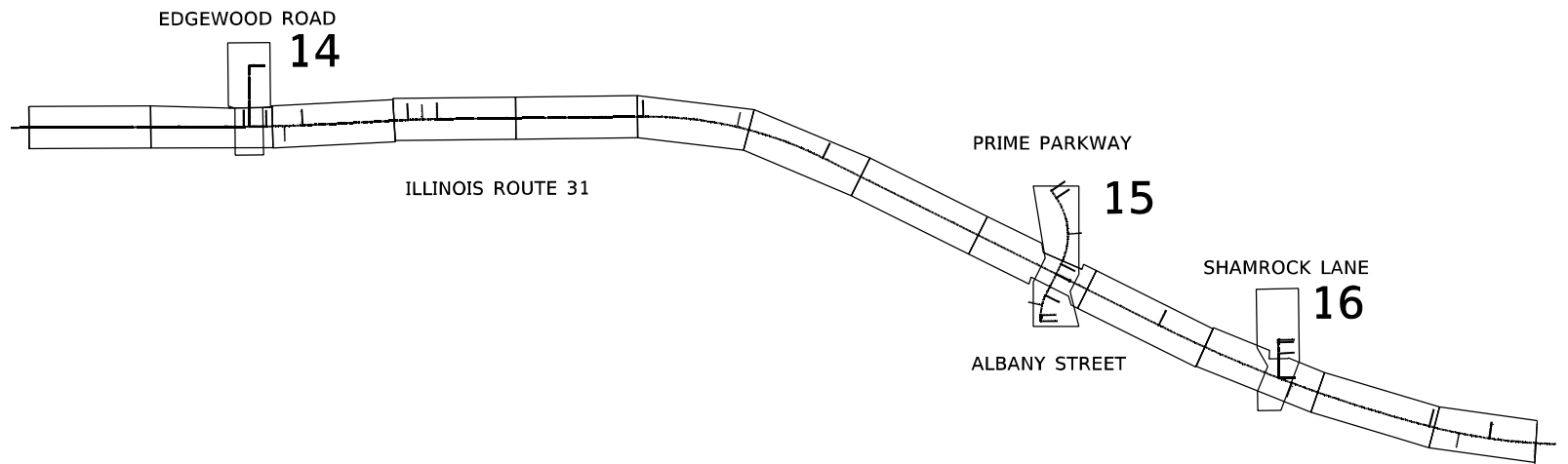
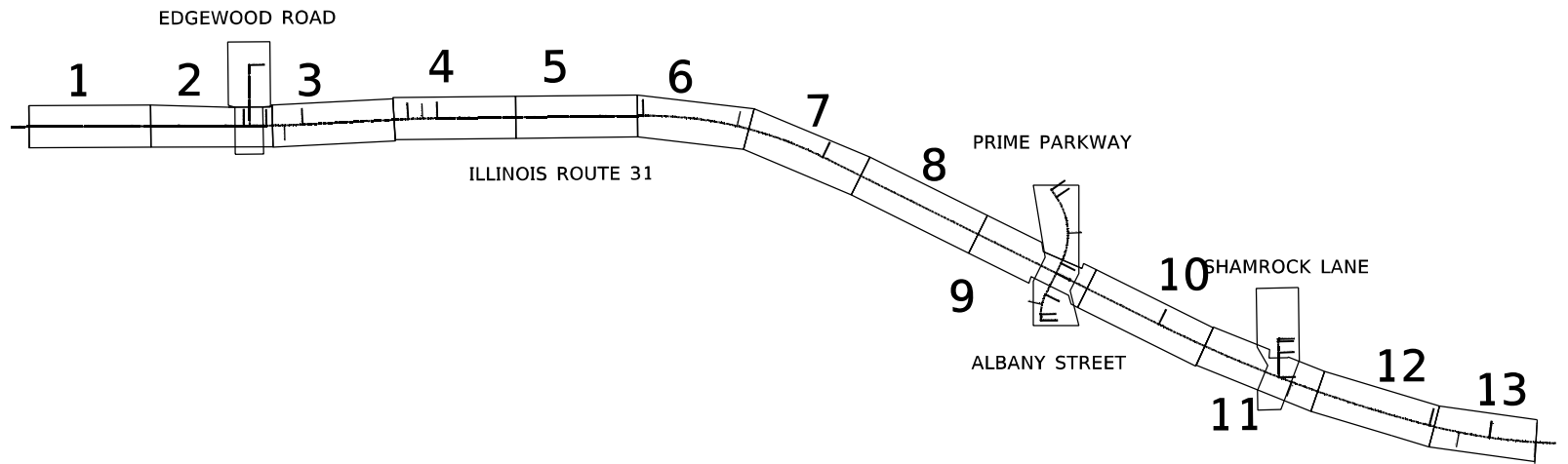
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PLOT SCALE = 100.0000' / in.	DRAWN - HRG	REVISED -
PLOT DATE = 12/19/2025	CHECKED - TEH	REVISED -
	DATE - 04/30/2024	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE REMOVAL SCHEDULES
STRUCTURE REMOVAL SCHEDULE**

SCALE: NTS SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	254
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80C85	



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USER NAME	= mzuuzlo	DESIGNED	- DMS	REVISED	-
DRAWN	- HRG	REVISIONS	-	REVISIONS	-
PLOT SCALE	= 2000,0000 ' / in.	CHECKED	- TEH	REVISIONS	-
PLOT DATE	= 12/19/2025	DATE	- 04/30/2024	REVISIONS	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE PLAN SHEET LAYOUT
ILLINOIS ROUTE 31**

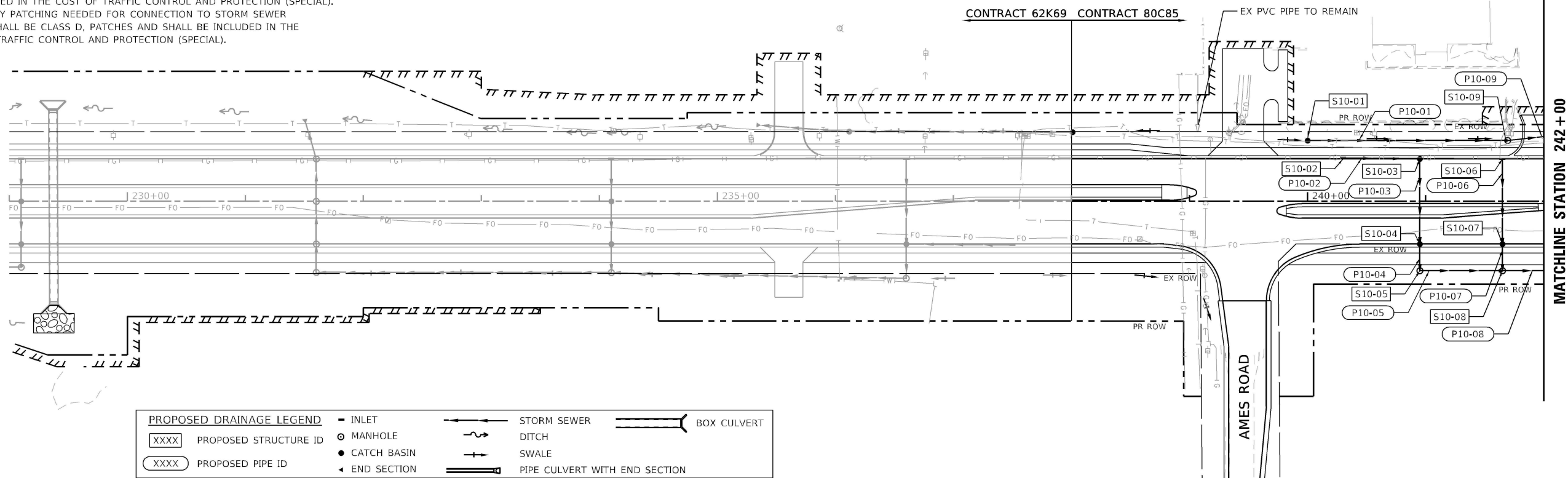
SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,T5,SW	McHENRY	553	256
CONTRACT NO. 80C85				
ILLINOIS FED. AID PROJECT				

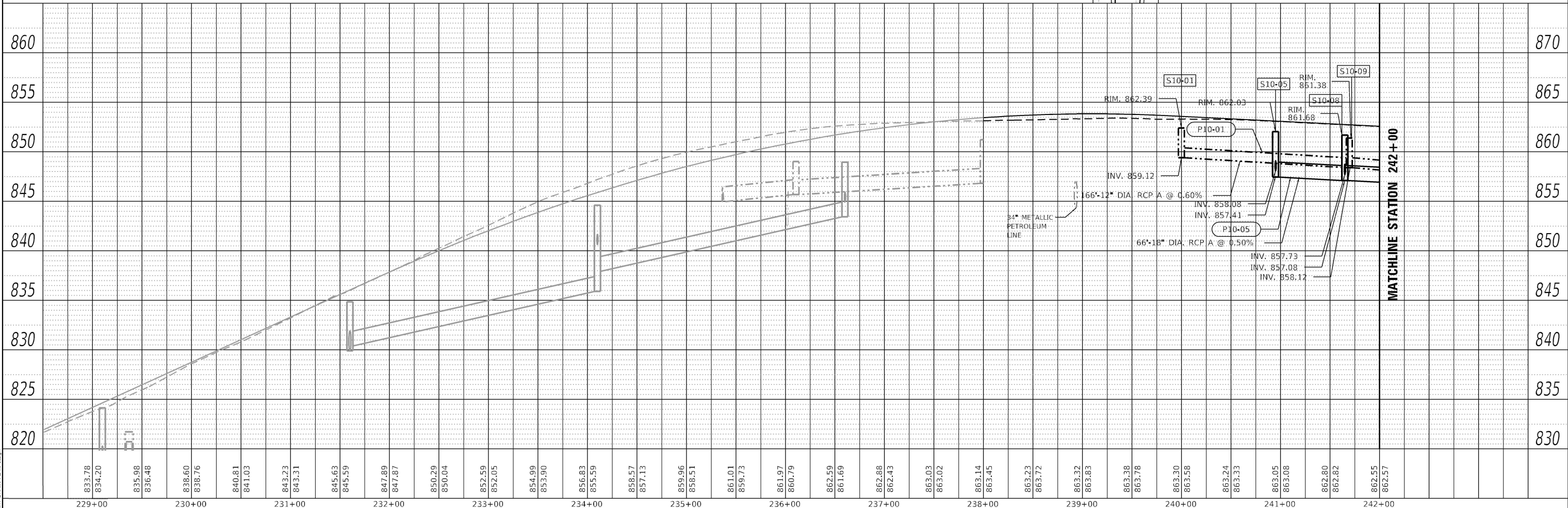
NOTES:
 CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING CONSTRUCTION. TEMPORARY DRAINAGE MEASURES SHALL BE PROVIDED AS NECESSARY TO PREVENT PONDING, EROSION, OR DAMAGE TO ADJACENT PROPERTIES AND FACILITIES. ALL TEMPORARY DRAINAGE MEASURES SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL). TEMPORARY PATCHING NEEDED FOR CONNECTION TO STORM SEWER SYSTEM SHALL BE CLASS D, PATCHES AND SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).



PLAN	SUBMITTED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	RECORD	
	CAVD FILE NAME	
	NO.	



PROFILE	SUBMITTED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS	
	CHKD	
	NO.	



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PLOT DATE	2/19/2026
DATE	1/9/2026

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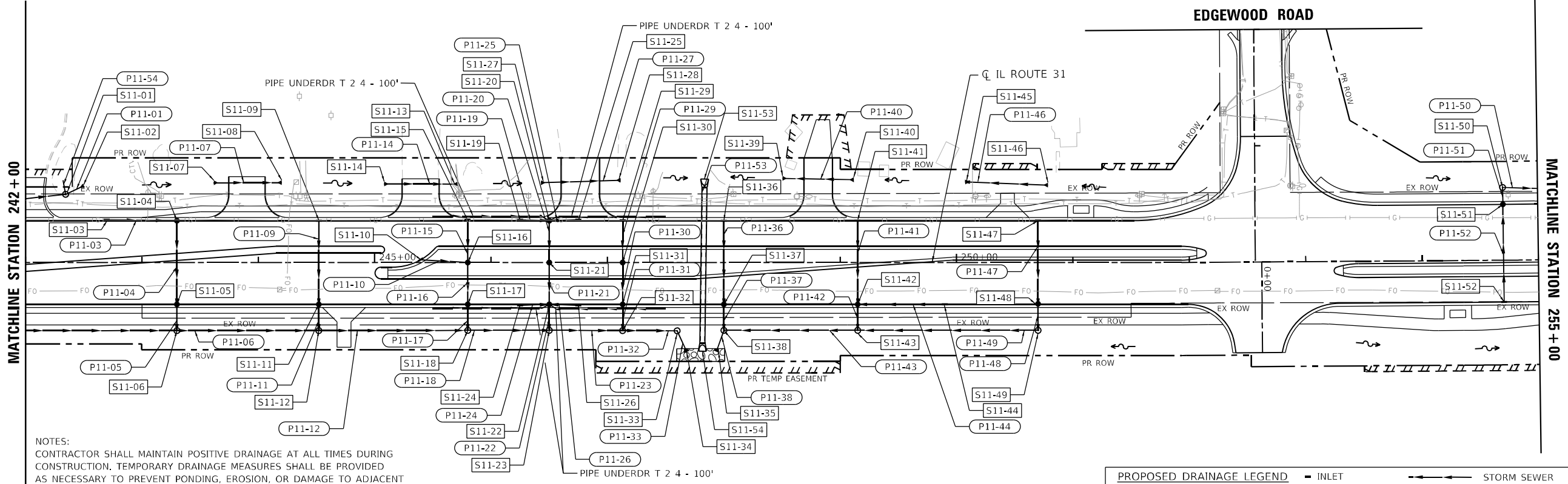
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE
 ILLINOIS ROUTE 31

SCALE: 1"=50' SHEET 10 OF 26 SHEETS STA. 238+00 TO STA. 242+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	257
CONTRACT NO. 80C85				
ILLINOIS FED. AID PROJECT				

PLAN	DRAWN	BY	DATE
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NO.	NO.		

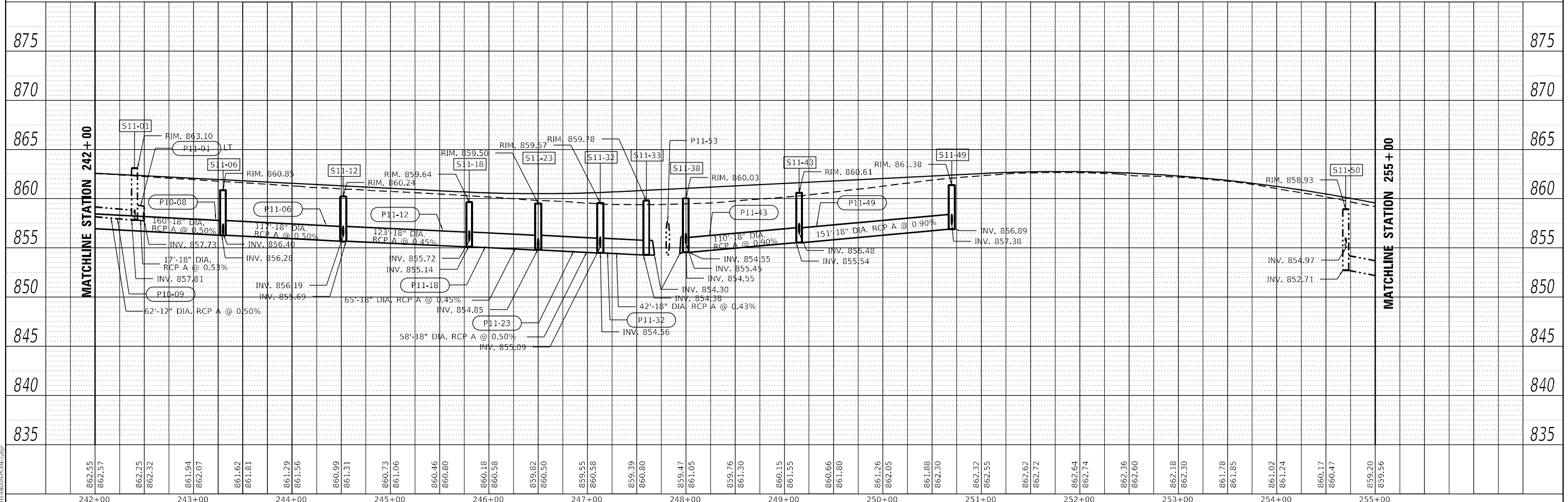


NOTES:
 CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING CONSTRUCTION. TEMPORARY DRAINAGE MEASURES SHALL BE PROVIDED AS NECESSARY TO PREVENT PONDING, EROSION, OR DAMAGE TO ADJACENT PROPERTIES AND FACILITIES. ALL TEMPORARY DRAINAGE MEASURES SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL). TEMPORARY PATCHING NEEDED FOR CONNECTION TO STORM SEWER SYSTEM SHALL BE CLASS D, PATCHES AND SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).

PROPOSED DRAINAGE LEGEND

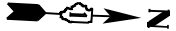
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XXXX	PROPOSED PIPE ID	(Symbol)	MANHOLE	(Symbol)	DITCH	(Symbol)	PIPE CULVERT WITH END SECTION
(Symbol)	(Symbol)	(Symbol)	CATCH BASIN	(Symbol)	SWALE	(Symbol)	(Symbol)
(Symbol)	(Symbol)	(Symbol)	END SECTION	(Symbol)	(Symbol)	(Symbol)	(Symbol)

PROFILE	DRAWN	BY	DATE
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NO.	NO.		
NO.	NO.		

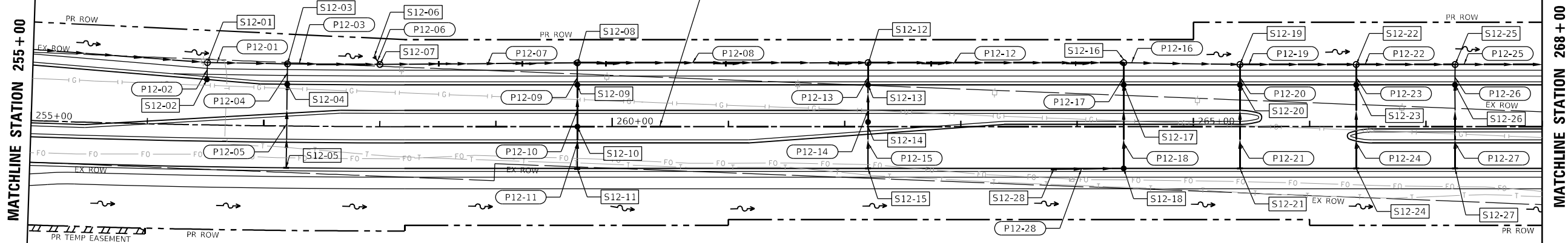


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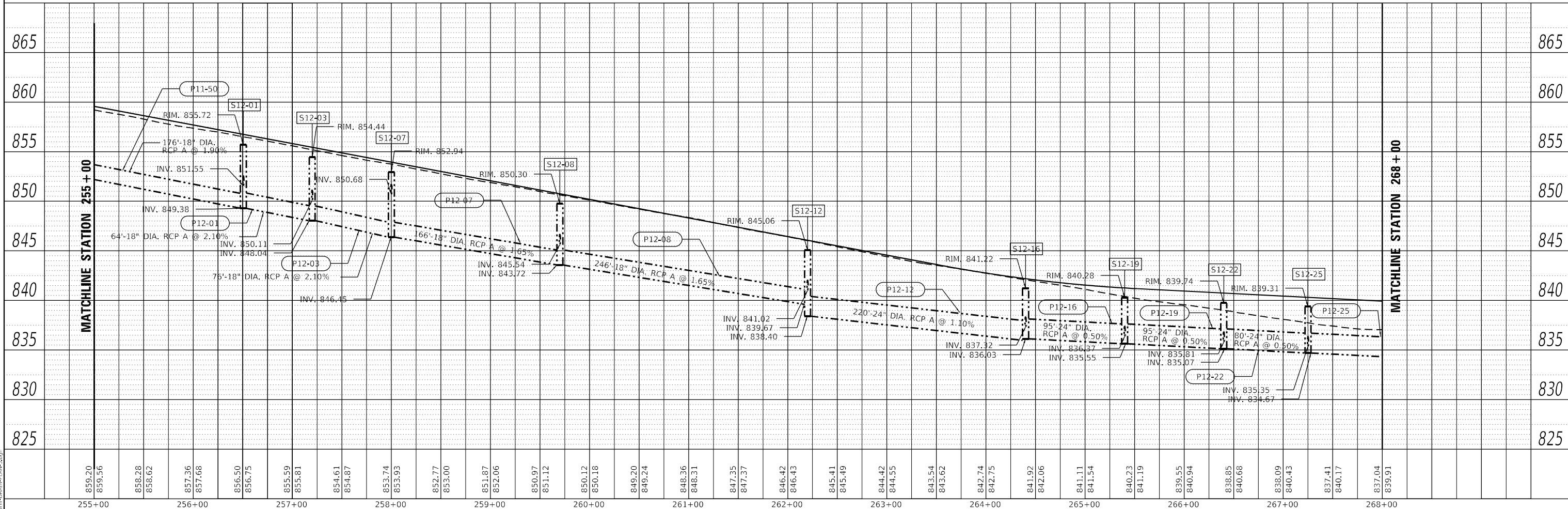
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BY	
SURVEYED	
PLANNED	
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NO.	
NO.	
NO.	
NO.	



PROPOSED DRAINAGE LEGEND		INLET		STORM SEWER		BOX CULVERT	
XXXX	PROPOSED STRUCTURE ID	○	MANHOLE	—	DITCH	—	SWALE
XXXX	PROPOSED PIPE ID	●	CATCH BASIN	—	PIPE CULVERT WITH END SECTION	—	
		▲	END SECTION				

NOTES:
 CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING CONSTRUCTION. TEMPORARY DRAINAGE MEASURES SHALL BE PROVIDED AS NECESSARY TO PREVENT PONDING, EROSION, OR DAMAGE TO ADJACENT PROPERTIES AND FACILITIES. ALL TEMPORARY DRAINAGE MEASURES SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL). TEMPORARY PATCHING NEEDED FOR CONNECTION TO STORM SEWER SYSTEM SHALL BE CLASS D. PATCHES AND SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).

DATE	
BY	
SURVEYED	
PLANNED	
NOTED	
NOTED	
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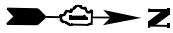
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		DRAWN	- HRG	REVISED	-
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PLOT DATE	= 2/19/2026	DATE	- 1/9/2026	REVISED	-

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DRAINAGE PLAN AND PROFILE
 ILLINOIS ROUTE 31**

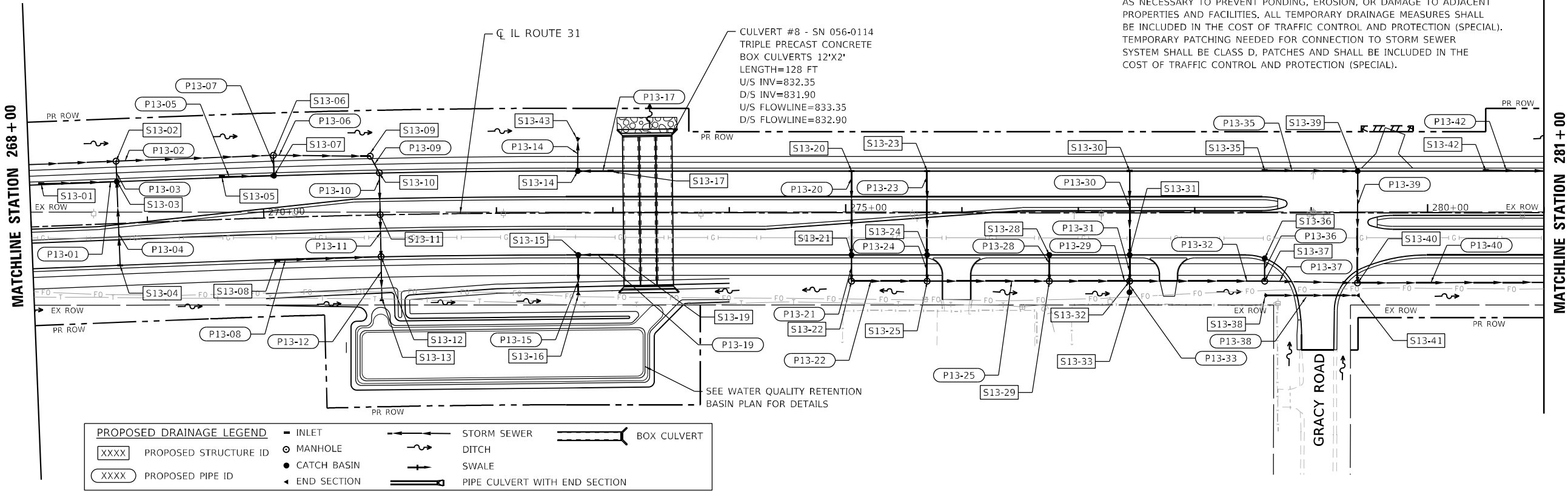
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

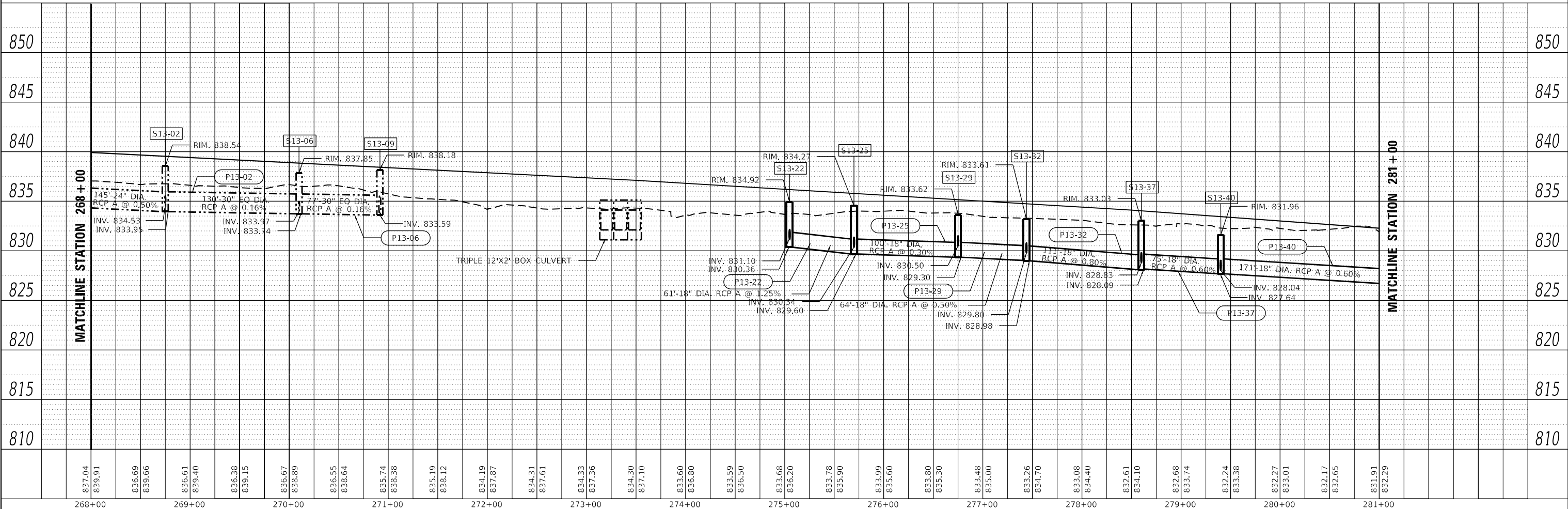


NOTES:
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PLAN	SURVEYED	DATE
	PIOTTED	
	ALIGNED	
	CHECKED	
	BY	
	NO.	



PROFILE	SURVEYED	DATE
	PIOTTED	
	ALIGNED	
	CHECKED	
	BY	
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 HRGreen.com Illinois Professional Design Firm #184-021322	USER NAME = mzuuzio	DESIGNED - DMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE ILLINOIS ROUTE 31			F.A.P. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	CHECKED - TEH	REVISED -		SCALE: 1"=50'	SHEET 13	OF 26 SHEETS	STA. 286+00	TO STA. 281+00	336A	2025-2127-R,C,TS,SW	McHENRY
PLOT DATE = 2/19/2026	DATE = 1/9/2026	REVISED -										CONTRACT NO. 80C85

MATCHLINE STATION 281+00

MATCHLINE STATION 268+00

MATCHLINE STATION 268+00

810

815

820

825

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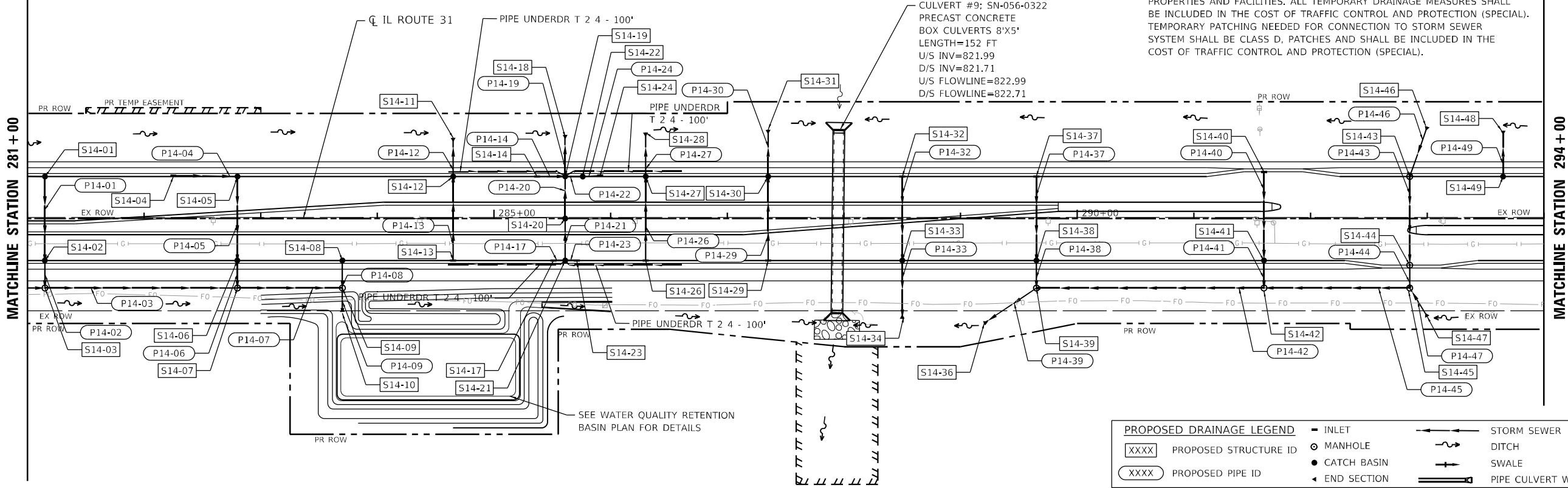
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	GRADE CHECKED		
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	NOTE BOOK NO.		
	FILE NAME		

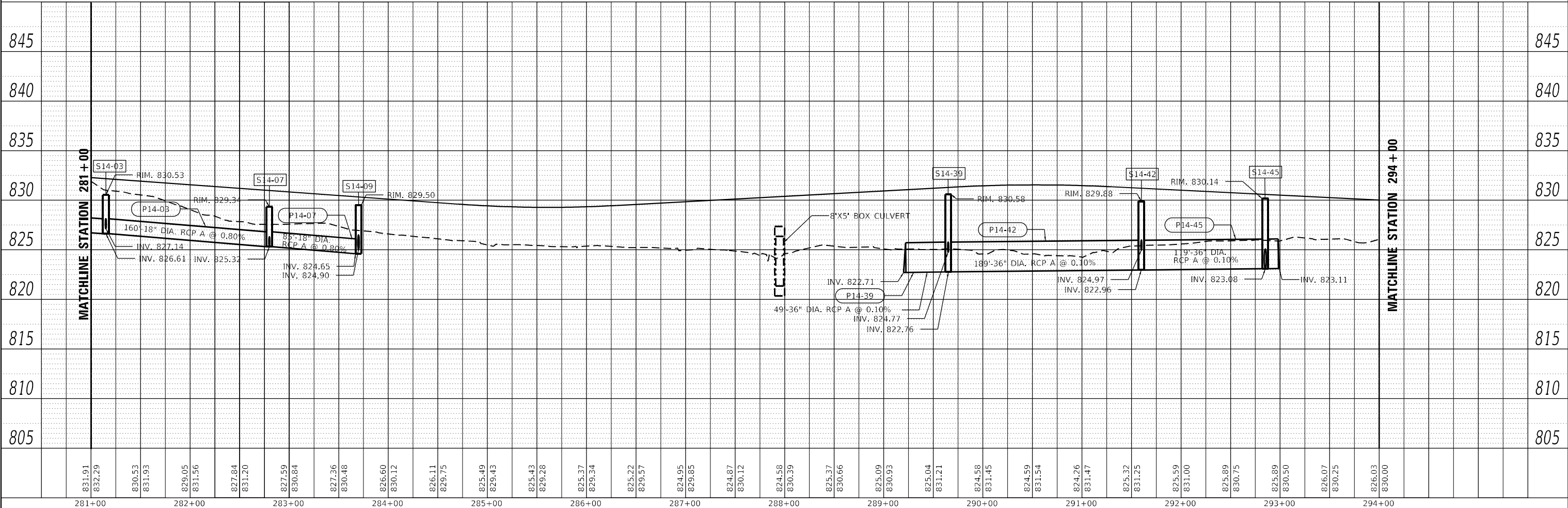
PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	GRADE CHECKED		
	STRUCTURE NOTATION CHECKED		
	NOTE BOOK NO.		
	FILE NAME		



NOTES:
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PROPOSED DRAINAGE LEGEND			
XXXX	PROPOSED STRUCTURE ID	—	INLET
XXXX	PROPOSED PIPE ID	○	MANHOLE
		●	CATCH BASIN
		◄	END SECTION
		—	STORM SEWER
		—	DITCH
		—	SWALE
		—	PIPE CULVERT WITH END SECTION
		—	BOX CULVERT



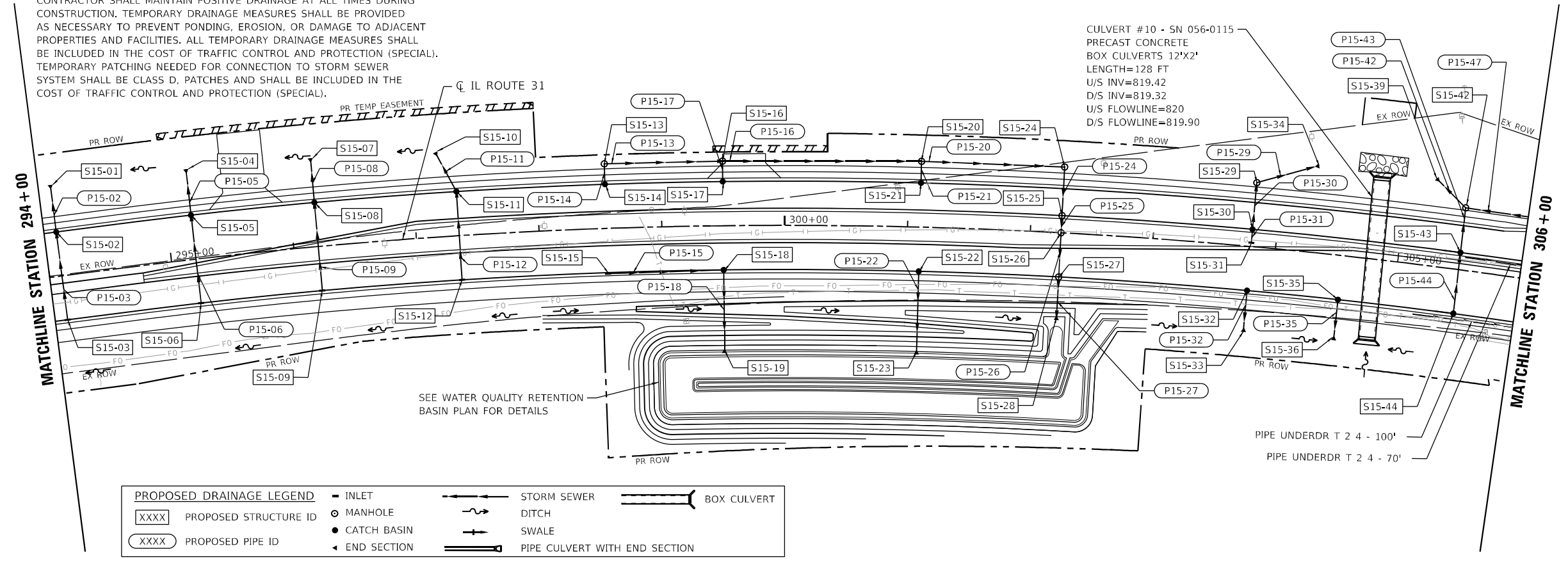
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NOTES:
 CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING CONSTRUCTION. TEMPORARY DRAINAGE MEASURES SHALL BE PROVIDED AS NECESSARY TO PREVENT PONDING, EROSION, OR DAMAGE TO ADJACENT PROPERTIES AND FACILITIES. ALL TEMPORARY DRAINAGE MEASURES SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL). TEMPORARY PATCHING NEEDED FOR CONNECTION TO STORM SEWER SYSTEM SHALL BE CLASS D. PATCHES AND SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).

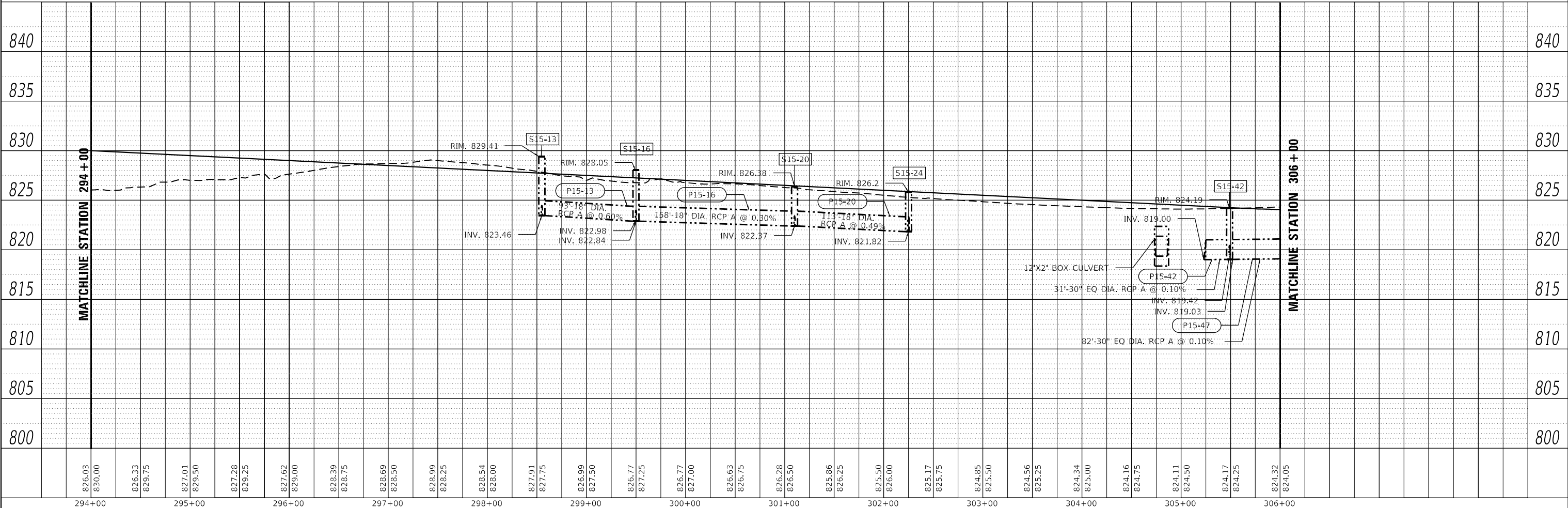
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	PLOTTED	
	ALIGNED	
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	BY	
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PROPOSED DRAINAGE LEGEND

XXXX	PROPOSED STRUCTURE ID	—	INLET	—	STORM SEWER	—	BOX CULVERT
XXXX	PROPOSED PIPE ID	○	MANHOLE	—	DITCH	+	
		●	CATCH BASIN	—	SWALE	—	
		◄	END SECTION	—	PIPE CULVERT WITH END SECTION		

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRABS	
	CHECKED	
	BY	
	NO.	



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DRAWN	- HRG
CHECKED	- TEH
DATE	- 1/9/2026

REVISD	- REVBY1
REVISD	- REVBY2
REVISD	- REVBY3
REVISD	- REVBY4

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

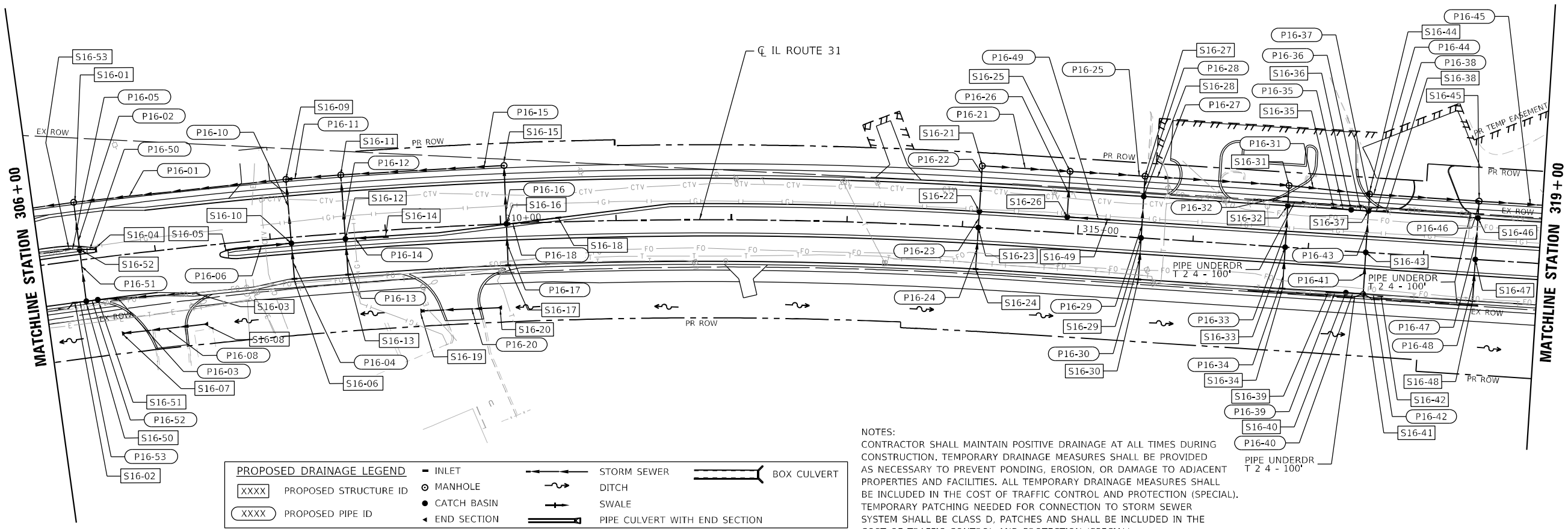
**DRAINAGE PLAN AND PROFILE
 ILLINOIS ROUTE 31**

SCALE: 1"=50' SHEET 15 OF 26 SHEETS STA. 294+00 TO STA. 306+00

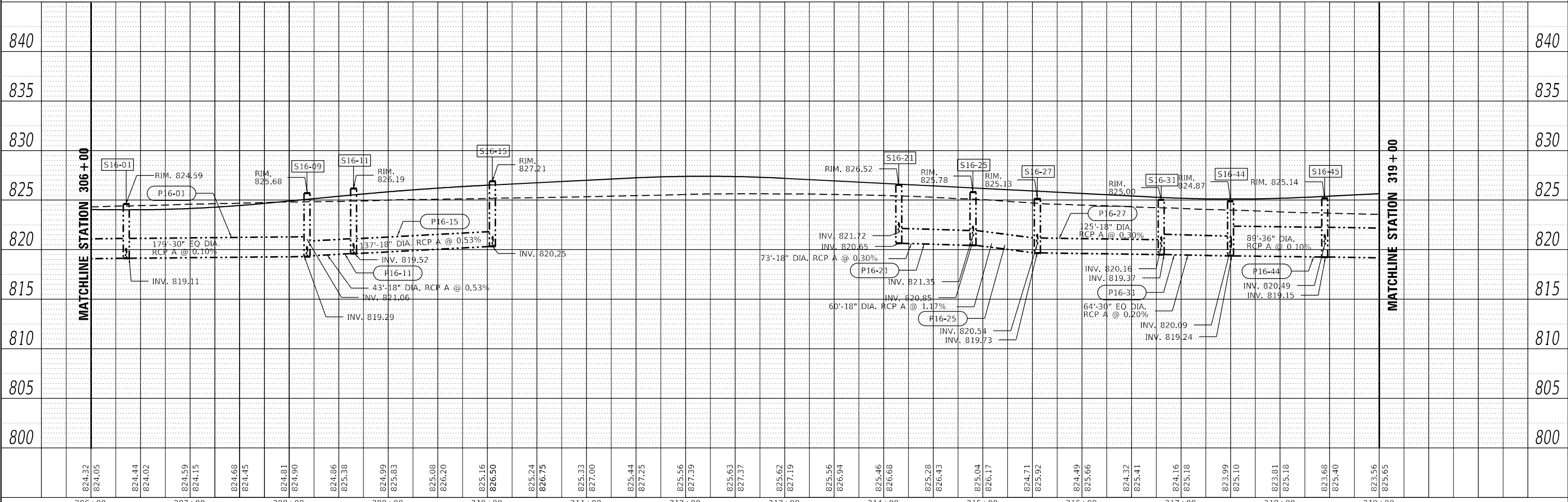
F.A.P R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	262
CONTRACT NO.			80C85	
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNMENT CHECKED		
	LEGEND		
	FILE NAME		
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PROFILE	SURVEYED	BY	DATE
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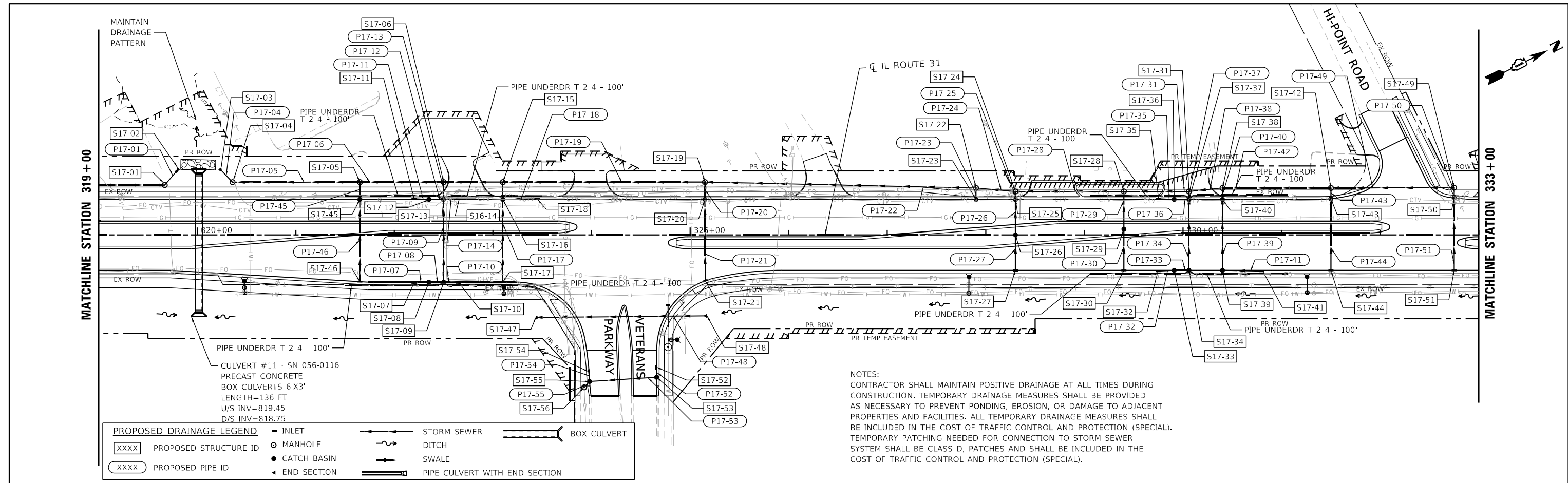
NOTES:
 CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING CONSTRUCTION. TEMPORARY DRAINAGE MEASURES SHALL BE PROVIDED AS NECESSARY TO PREVENT PONDING, EROSION, OR DAMAGE TO ADJACENT PROPERTIES AND FACILITIES. ALL TEMPORARY DRAINAGE MEASURES SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL). TEMPORARY PATCHING NEEDED FOR CONNECTION TO STORM SEWER SYSTEM SHALL BE CLASS D, PATCHES AND SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).



HRGreen.com Illinois Professional Design Firm #184-021322	USER NAME = mzuuzio	DESIGNED - DMS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE ILLINOIS ROUTE 31	F.A.P. RITE. 336A	SECTION 2025-2127-R,C,TS,SW	COUNTY MC HENRY	TOTAL SHEETS 553	SHEET NO. 263
	PLOT SCALE = 100,0000' / in.	CHECKED - TEH	REVISED -			SCALE: 1"=50'	SHEET 16 OF 26 SHEETS	STA. 306+00 TO STA. 319+00	CONTRACT NO. 80C85	ILLINOIS FED. AID PROJECT
	PLOT DATE = 2/19/2026	DATE - 1/9/2026	REVISED -							

PLAN	DATE
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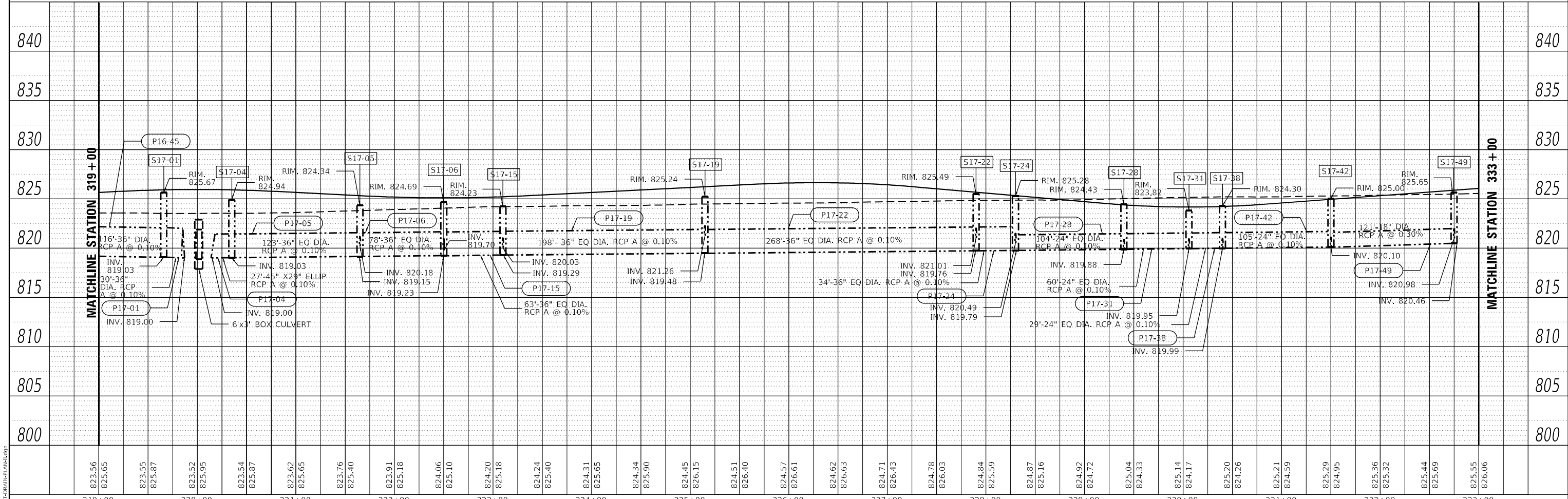
PROFILE	DATE
BY	
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NO.	



NOTES:
 CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING CONSTRUCTION. TEMPORARY DRAINAGE MEASURES SHALL BE PROVIDED AS NECESSARY TO PREVENT PONDING, EROSION, OR DAMAGE TO ADJACENT PROPERTIES AND FACILITIES. ALL TEMPORARY DRAINAGE MEASURES SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL). TEMPORARY PATCHING NEEDED FOR CONNECTION TO STORM SEWER SYSTEM SHALL BE CLASS D, PATCHES AND SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).

PROPOSED DRAINAGE LEGEND

- XXXX PROPOSED STRUCTURE ID
- XXXX PROPOSED PIPE ID
- INLET
- MANHOLE
- CATCH BASIN
- END SECTION
- STORM SEWER
- DITCH
- SWALE
- PIPE CULVERT WITH END SECTION
- BOX CULVERT



319+00	320+00	321+00	322+00	323+00	324+00	325+00	326+00	327+00	328+00	329+00	330+00	331+00	332+00	333+00																																											
823.56	825.65	823.55	825.87	823.52	825.95	823.54	825.87	823.62	825.65	823.76	825.40	823.91	825.18	824.06	825.10	824.20	825.18	824.24	825.40	824.31	825.65	824.34	825.90	824.45	826.15	824.51	826.40	824.57	826.61	824.62	826.63	824.71	826.43	824.78	826.03	824.84	825.59	824.87	825.16	824.92	824.72	825.04	824.33	825.14	824.17	825.20	824.26	825.21	824.59	825.29	824.95	825.36	825.32	825.44	825.69	825.55	826.06

USER NAME = muzzio	DESIGNED - DMS	REVISED - REVBY1
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PLOT DATE = 2/19/2026	DATE - 1/9/2026	REVISED - REVBY4

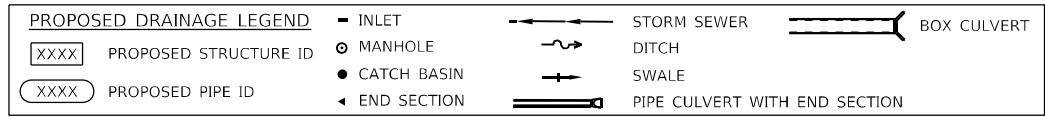
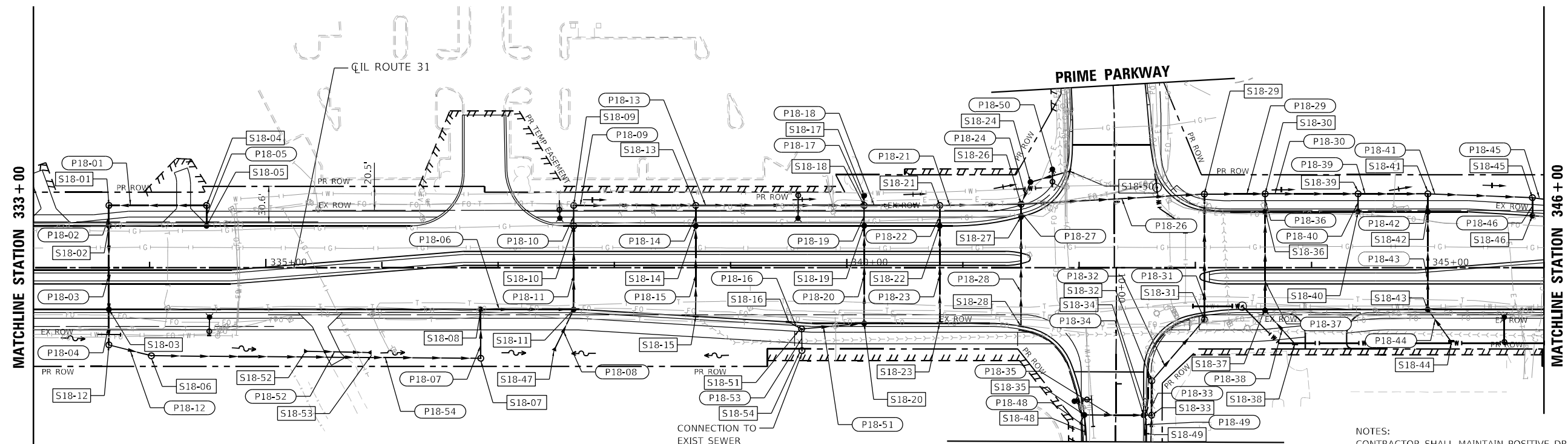
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DRAINAGE PLAN AND PROFILE	
ILLINOIS ROUTE 31	
SCALE: 1"=50'	SHEET 17 OF 26 SHEETS
STA. 319+00	TO STA. 333+00

F.A.P. R.I.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	MC HENRY	553	264
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

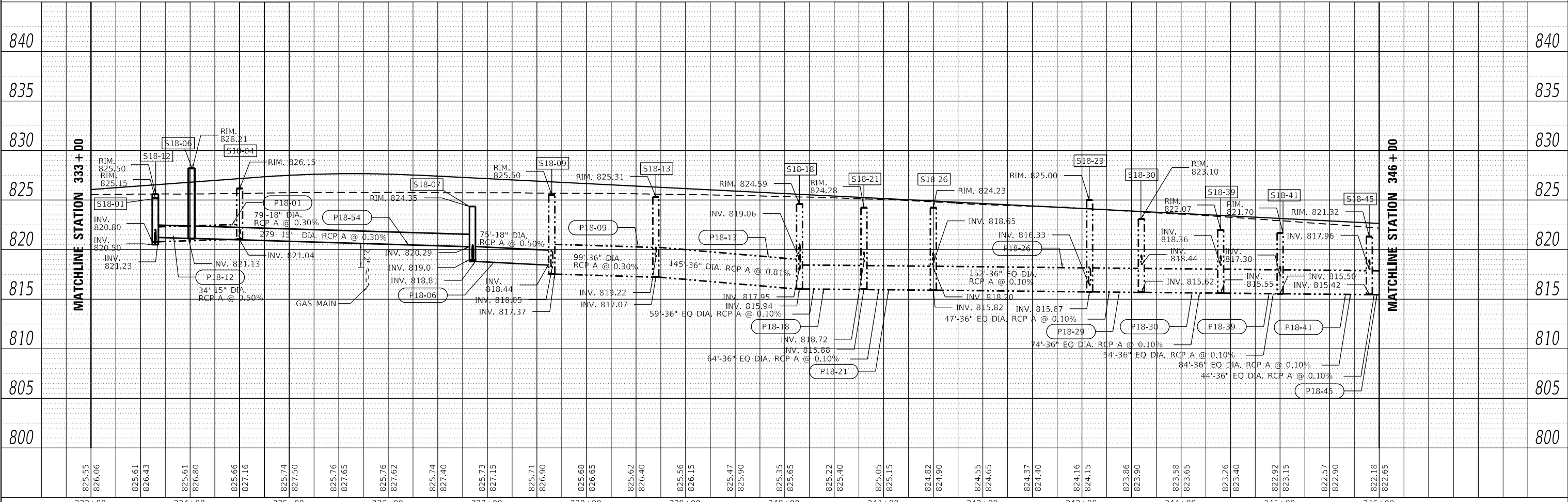
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 HRGreen.com
 Illinois Professional Design Firm
 #184-021322

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	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	



NOTES:
 CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING CONSTRUCTION. TEMPORARY DRAINAGE MEASURES SHALL BE PROVIDED AS NECESSARY TO PREVENT PONDING, EROSION, OR DAMAGE TO ADJACENT PROPERTIES AND FACILITIES. ALL TEMPORARY DRAINAGE MEASURES SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL). TEMPORARY PATCHING NEEDED FOR CONNECTION TO STORM SEWER SYSTEM SHALL BE CLASS D, PATCHES AND SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRABS CHECKED	
	STRUCTURE NOTATION CHECKED	
	NO.	



333+00	334+00	335+00	336+00	337+00	338+00	339+00	340+00	341+00	342+00	343+00	344+00	345+00	346+00																																								
825.55	826.06	825.61	826.43	825.61	826.80	825.66	827.16	825.74	827.50	825.76	827.65	825.76	827.62	825.74	827.40	825.73	827.15	825.71	826.90	825.68	826.65	825.62	826.40	825.56	826.15	825.47	825.90	825.35	825.65	825.22	825.40	825.05	825.15	824.82	824.90	824.55	824.65	824.37	824.40	824.16	824.15	823.86	823.90	823.58	823.65	823.26	823.40	822.92	823.15	822.57	822.90	822.18	822.65

HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = mzuuzio	DESIGNED - DMS	REVISED - REVBY1
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PLOT DATE = 2/19/2026	CHECKED - TEH	REVISED - REVBY3
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

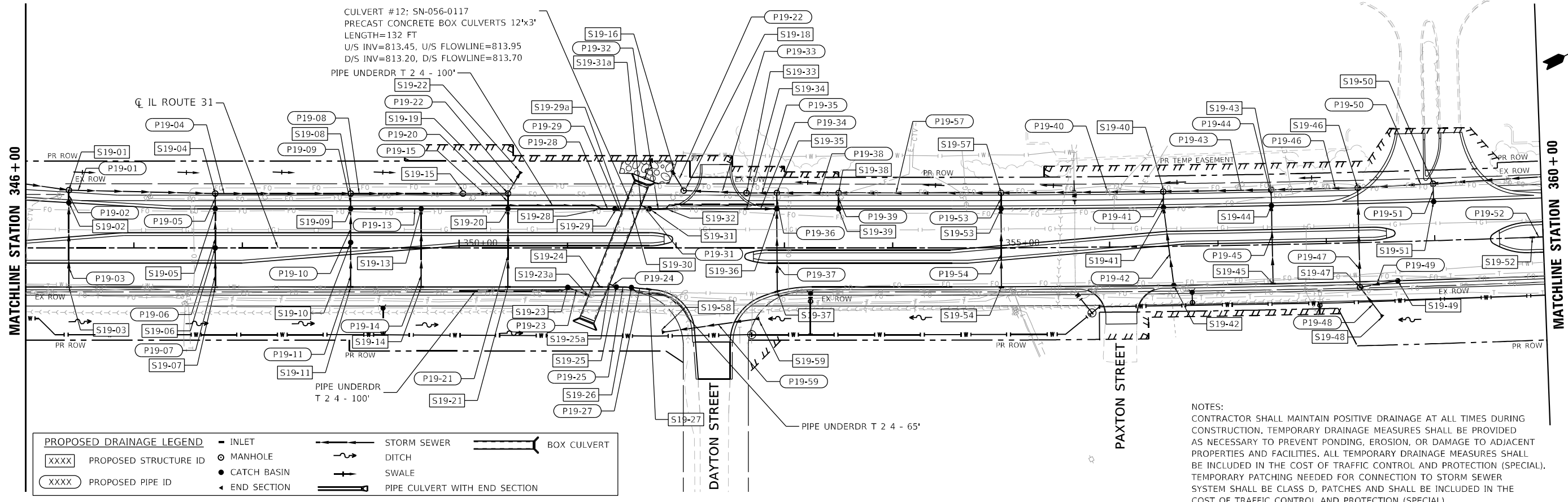
**DRAINAGE PLAN AND PROFILE
 ILLINOIS ROUTE 31**

SCALE: 1"=50' SHEET 18 OF 26 SHEETS STA. 333+00 TO STA. 346+00

F.A.P. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,T5,SW	McHENRY	553	265
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

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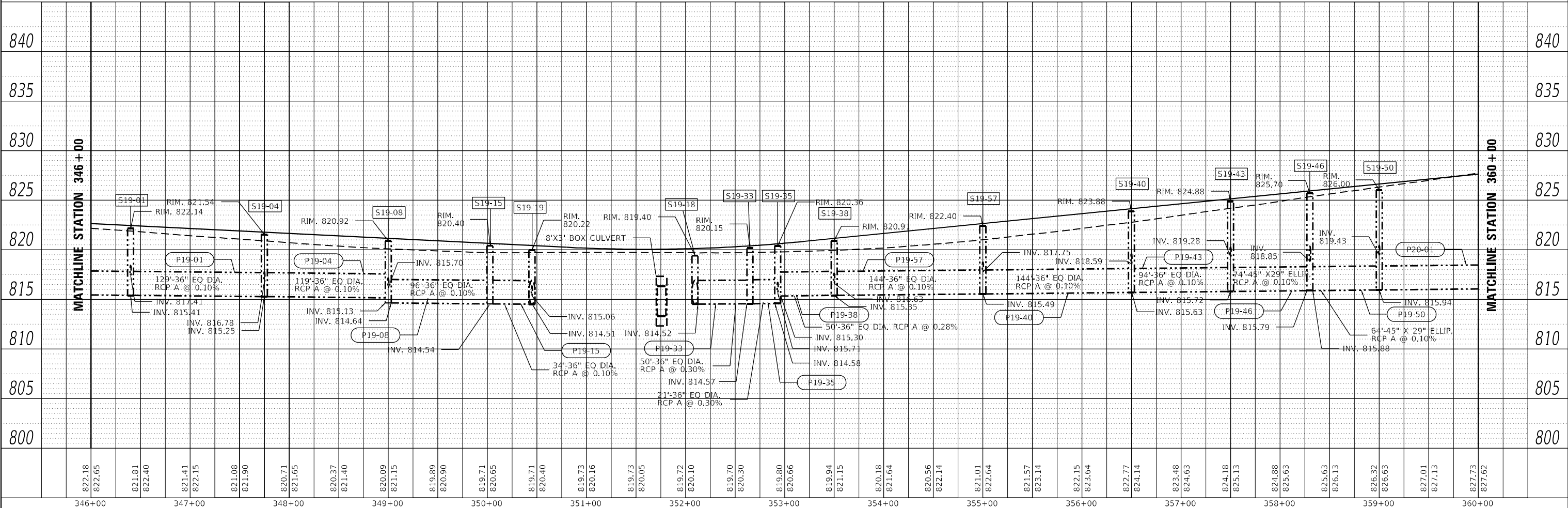
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	CHECKED		
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	FILE NAME _____		



PROPOSED DRAINAGE LEGEND

XXXX	PROPOSED STRUCTURE ID	○	MANHOLE	—	STORM SEWER	—	BOX CULVERT
XXXX	PROPOSED PIPE ID	●	CATCH BASIN	—	DITCH	—	
		◄	END SECTION	—	SWALE	—	
		—		—	PIPE CULVERT WITH END SECTION		

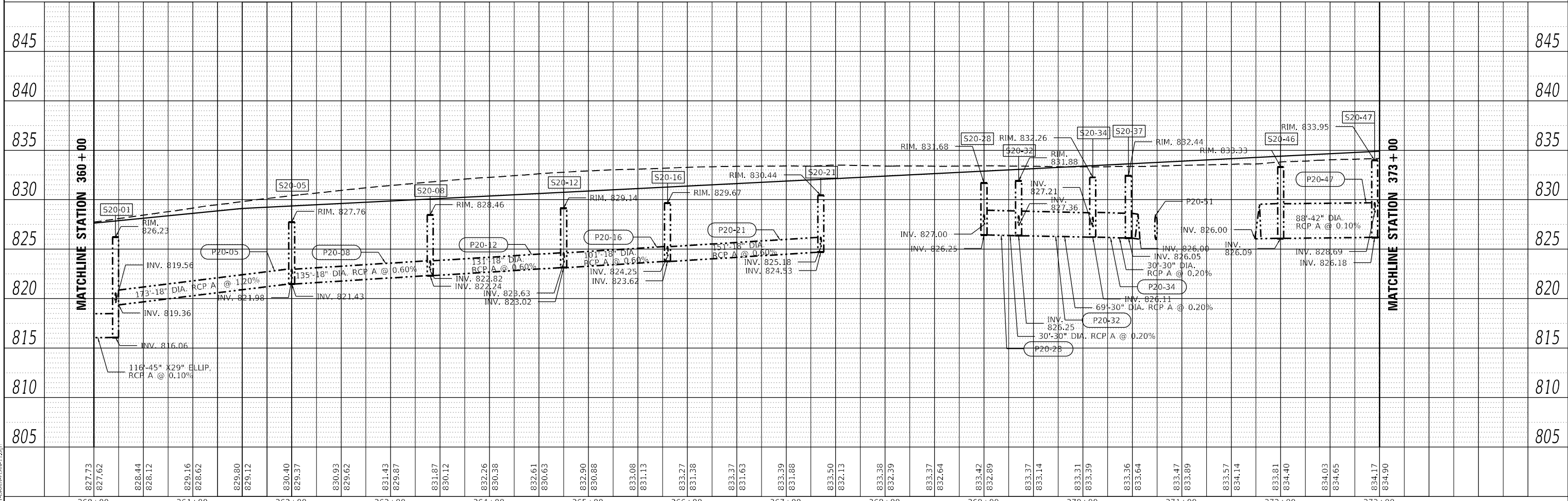
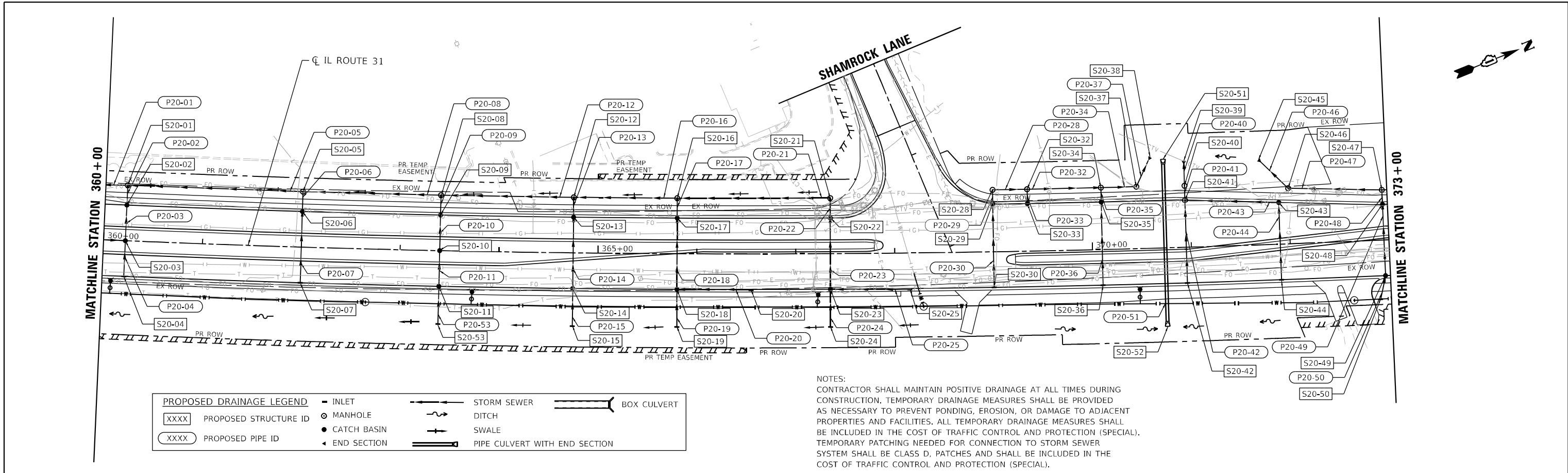
NOTES:
 CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING CONSTRUCTION. TEMPORARY DRAINAGE MEASURES SHALL BE PROVIDED AS NECESSARY TO PREVENT PONDING, EROSION, OR DAMAGE TO ADJACENT PROPERTIES AND FACILITIES. ALL TEMPORARY DRAINAGE MEASURES SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL). TEMPORARY PATCHING NEEDED FOR CONNECTION TO STORM SEWER SYSTEM SHALL BE CLASS D, PATCHES AND SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).



 HRGreen.com Illinois Professional Design Firm #184-021322	USER NAME = mzuuzio PLOT SCALE = 100,0000' / in. PLOT DATE = 2/19/2026	DESIGNED - DMS DRAWN - HRG CHECKED - TEH DATE - 1/9/2026	REVISED - REVBY1 REVISED - REVBY2 REVISED - REVBY3 REVISED - REVBY4	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE ILLINOIS ROUTE 31	F.A.P. RITE. 336A SECTION 2025-2127-R,C,TS,SW COUNTY MC HENRY CONTRACT NO. 80C85	TOTAL SHEETS 553 SHEET NO. 266
	SCALE: 1"=50' SHEET 19 OF 26 SHEETS STA. 346+00 TO STA. 360+00	ILLINOIS FED. AID PROJECT					

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO. _____	
	NAME _____	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO. _____	
	NAME _____	

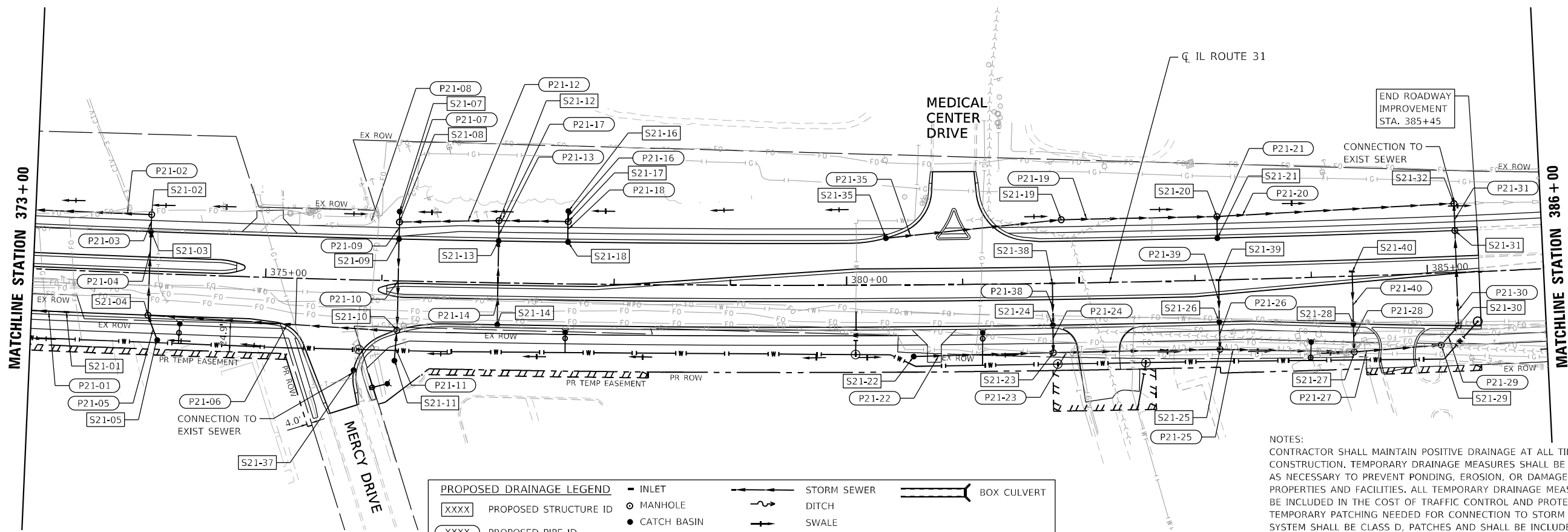


HRGreen.com Illinois Professional Design Firm # 184-021322	USER NAME = mzuuzio PLOT SCALE = 100,0000' / in. PLOT DATE = 2/19/2026	DESIGNED - DMS DRAWN - HRG CHECKED - TEH DATE - 1/9/2026	REVISED - REVBY1 REVISED - REVBY2 REVISED - REVBY3 REVISED - REVBY4	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE ILLINOIS ROUTE 31	F.A.P. R.I.E. = 336A SECTION = 2025-2127-R,C,TS,SW COUNTY = MCHENRY CONTRACT NO. = 80C85	TOTAL SHEETS = 553 SHEET NO. = 267
	SCALE: 1"=50' SHEET 20 OF 26 SHEETS STA. 360+00 TO STA. 373+00	ILLINOIS FED. AID PROJECT					



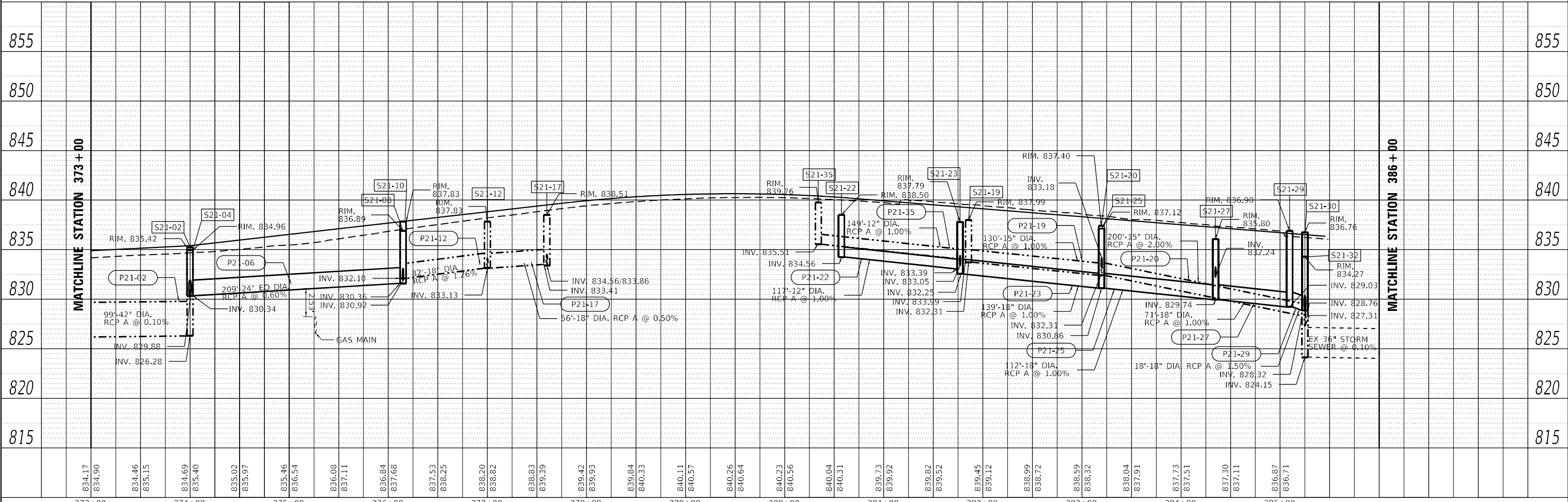
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	PIOTTED	
	ALIGNED	
	CHECKED	
	NO. _____	
	FILE NAME	

PROFILE	SURVEYED	DATE
	PIOTTED	
	GRADES	
	CHECKED	
	NO. _____	
	FILE NAME	



PROPOSED DRAINAGE LEGEND			
XXXX	PROPOSED STRUCTURE ID	—	INLET
XXXX	PROPOSED PIPE ID	○	MANHOLE
		●	CATCH BASIN
		◄	END SECTION
		—	STORM SEWER
		—	DITCH
		—	SWALE
		—	PIPE CULVERT WITH END SECTION
		—	BOX CULVERT

NOTES:
 CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING CONSTRUCTION. TEMPORARY DRAINAGE MEASURES SHALL BE PROVIDED AS NECESSARY TO PREVENT PONDING, EROSION, OR DAMAGE TO ADJACENT PROPERTIES AND FACILITIES. ALL TEMPORARY DRAINAGE MEASURES SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL). TEMPORARY PATCHING NEEDED FOR CONNECTION TO STORM SEWER SYSTEM SHALL BE CLASS D, PATCHES AND SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).

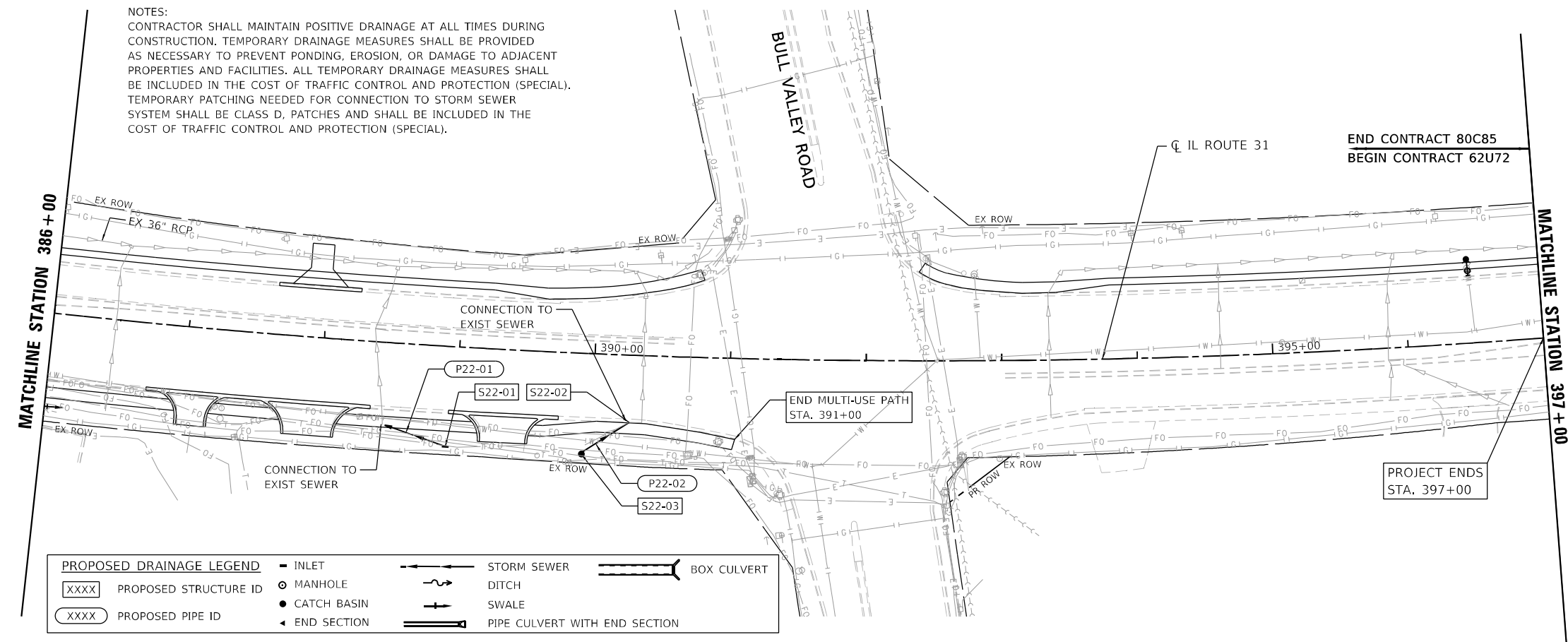


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HRGreen.com Illinois Professional Design Firm #184-001322	USER NAME = mzuuzio	DESIGNED - DMS	REVISED - REVBY1	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE PLAN AND PROFILE ILLINOIS ROUTE 31			F.A.P. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,0000' / in.	DRAWN - HRG	REVISED - REVBY2					336A	2025-2127-R,C,TS,SW	McHENRY	553	268
	PLOT DATE = 2/19/2026	CHECKED - TEH	REVISED - REVBY3					CONTRACT NO. 80C85				
		DATE - 1/9/2026	REVISED - REVBY4					ILLINOIS FED. AID PROJECT				
				SCALE: 1"=50'	SHEET 21	OF 26 SHEETS	STA. 373+00	TO STA. 386+00				



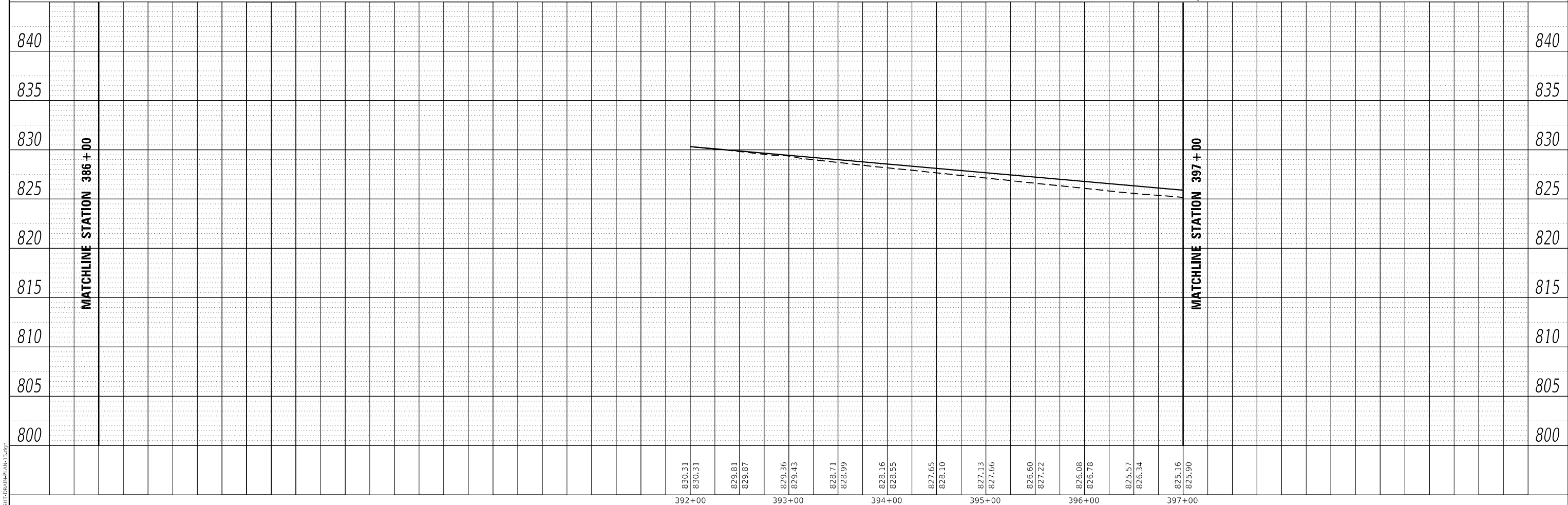
NOTES:
 CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING CONSTRUCTION. TEMPORARY DRAINAGE MEASURES SHALL BE PROVIDED AS NECESSARY TO PREVENT PONDING, EROSION, OR DAMAGE TO ADJACENT PROPERTIES AND FACILITIES. ALL TEMPORARY DRAINAGE MEASURES SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL). TEMPORARY PATCHING NEEDED FOR CONNECTION TO STORM SEWER SYSTEM SHALL BE CLASS D, PATCHES AND SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).



PROPOSED DRAINAGE LEGEND	
XXXX	PROPOSED STRUCTURE ID
XXXX	PROPOSED PIPE ID
—	INLET
○	MANHOLE
●	CATCH BASIN
◄	END SECTION
—	STORM SEWER
—	DITCH
—	SWALE
—	PIPE CULVERT WITH END SECTION
—	BOX CULVERT

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	AS BUILT FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRANDS CHECKED	
	STRUCTURE NOTATION CHECKED	
	NO.	



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USER NAME = mzuuzio	DESIGNED - DMS	REVISED - REVBY1
	DRAWN - HRG	REVISED - REVBY2
PLOT SCALE = 100,0000' / in.	CHECKED - TEH	REVISED - REVBY3
PLOT DATE = 2/19/2026	DATE - 1/9/2026	REVISED - REVBY4

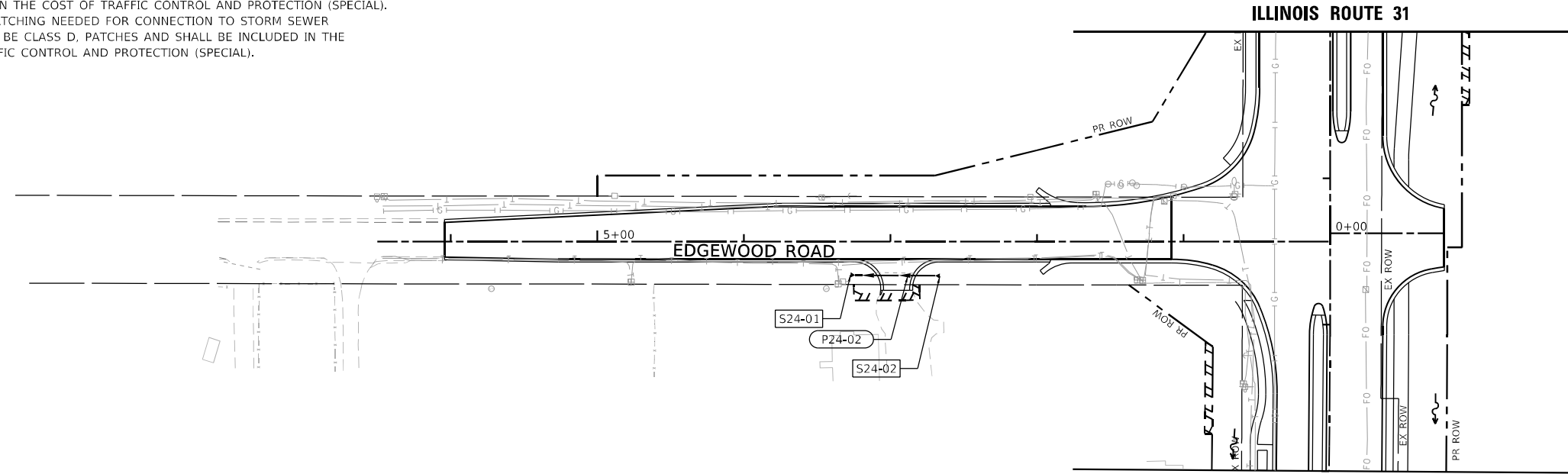
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRAINAGE PLAN AND PROFILE			
ILLINOIS ROUTE 31			
SCALE: 1"=50'	SHEET 22	OF 26 SHEETS	STA. 386+00 TO STA. 397+00

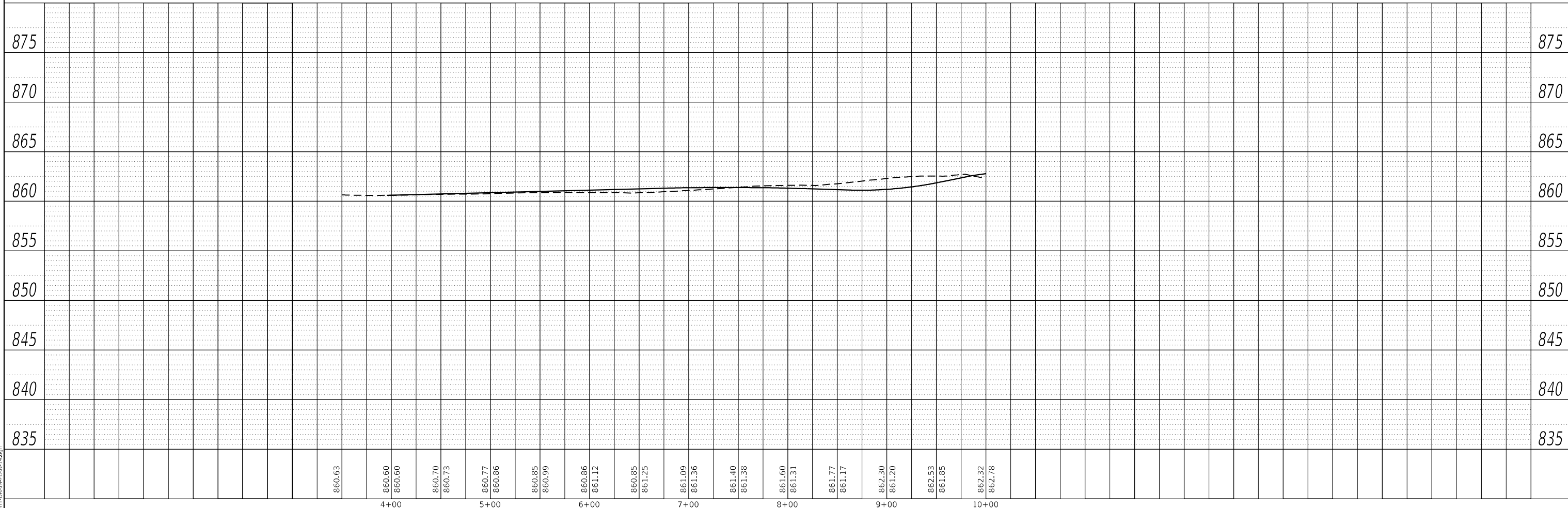
F.A.P. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	269
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	



NOTES:
 CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE AT ALL TIMES DURING CONSTRUCTION. TEMPORARY DRAINAGE MEASURES SHALL BE PROVIDED AS NECESSARY TO PREVENT PONDING, EROSION, OR DAMAGE TO ADJACENT PROPERTIES AND FACILITIES. ALL TEMPORARY DRAINAGE MEASURES SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL). TEMPORARY PATCHING NEEDED FOR CONNECTION TO STORM SEWER SYSTEM SHALL BE CLASS D, PATCHES AND SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).



PROPOSED DRAINAGE LEGEND	
XXXX	PROPOSED STRUCTURE ID
XXXX	PROPOSED PIPE ID
—	INLET
○	MANHOLE
●	CATCH BASIN
◄	END SECTION
—	STORM SEWER
—	DITCH
—	SWALE
—	PIPE CULVERT WITH END SECTION
—	BOX CULVERT



PLAN	DATE
SURVEYED	
PLOTTED	
ALIGNED CHECKED	
AS-CAD FILE NAME	
NOTE BOOK NO.	

PROFILE	DATE
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATION CHECKED	
NOTE BOOK NO.	

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USER NAME = mzuuzio
PLOT SCALE = 100,0000' / in.
PLOT DATE = 2/19/2026

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DRAWN - HRG	REVISED -
CHECKED - TEH	REVISED -
DATE - 1/9/2026	REVISED -

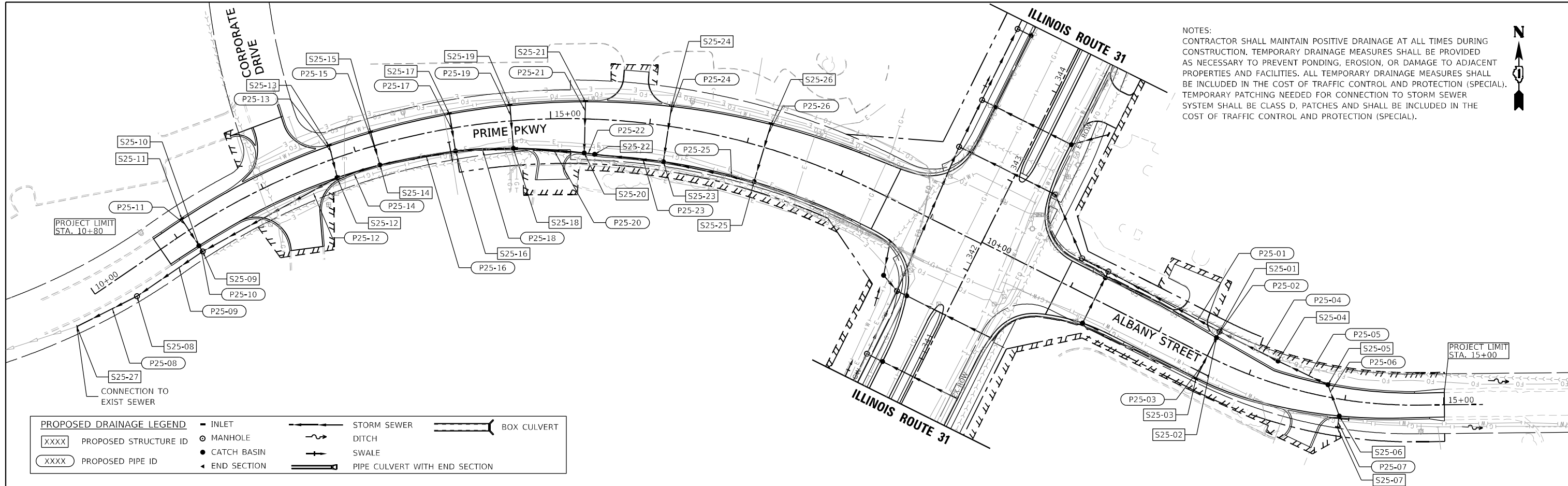
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE			
EDGEWOOD ROAD			
SCALE: 1"=50'	SHEET 24	OF 26 SHEETS	TO STA. 10+00

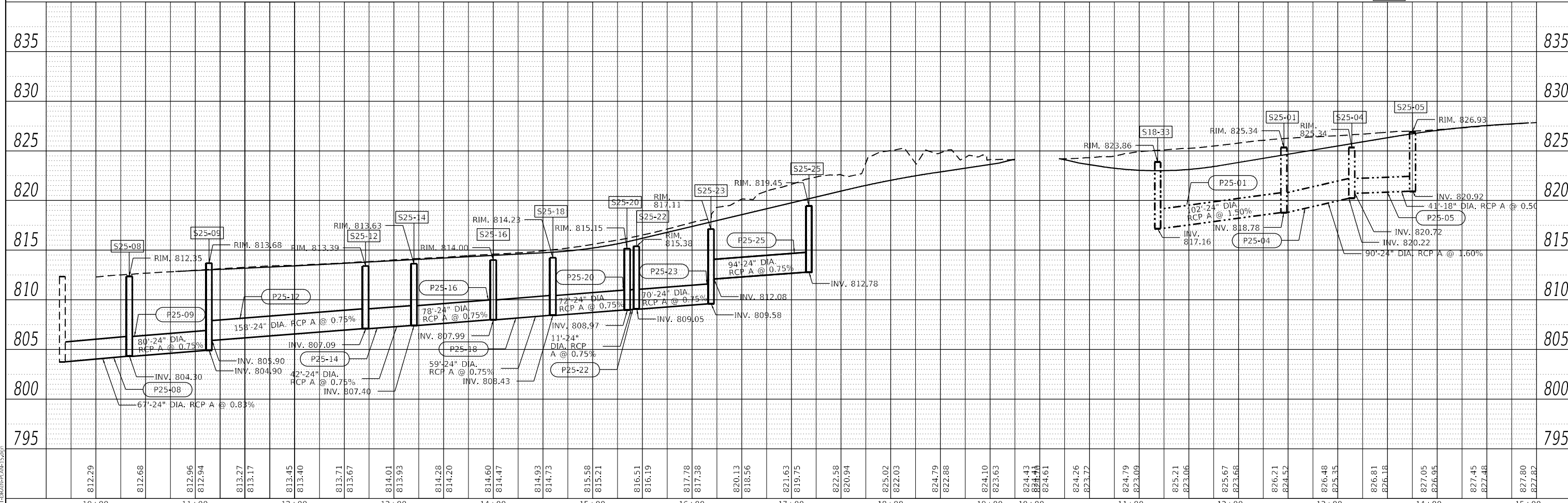
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	270
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
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	ALIGNED	
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	FILED	
	NO.	
	BY	
	DATE	

PROFILE	SURVEYED	DATE
	NOTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO.	
	BY	
	DATE	



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HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME	= mzuuzio
DESIGNED	- DMS
DRAWN	- HRG
CHECKED	- TEH
DATE	- 1/9/2026
REVISIONS	
REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE
 PRIME PARKWAY/ALBANY STREET
 SCALE: 1"=50'
 SHEET 25 OF 26 SHEETS
 STA. 10+00 TO STA. 18+00

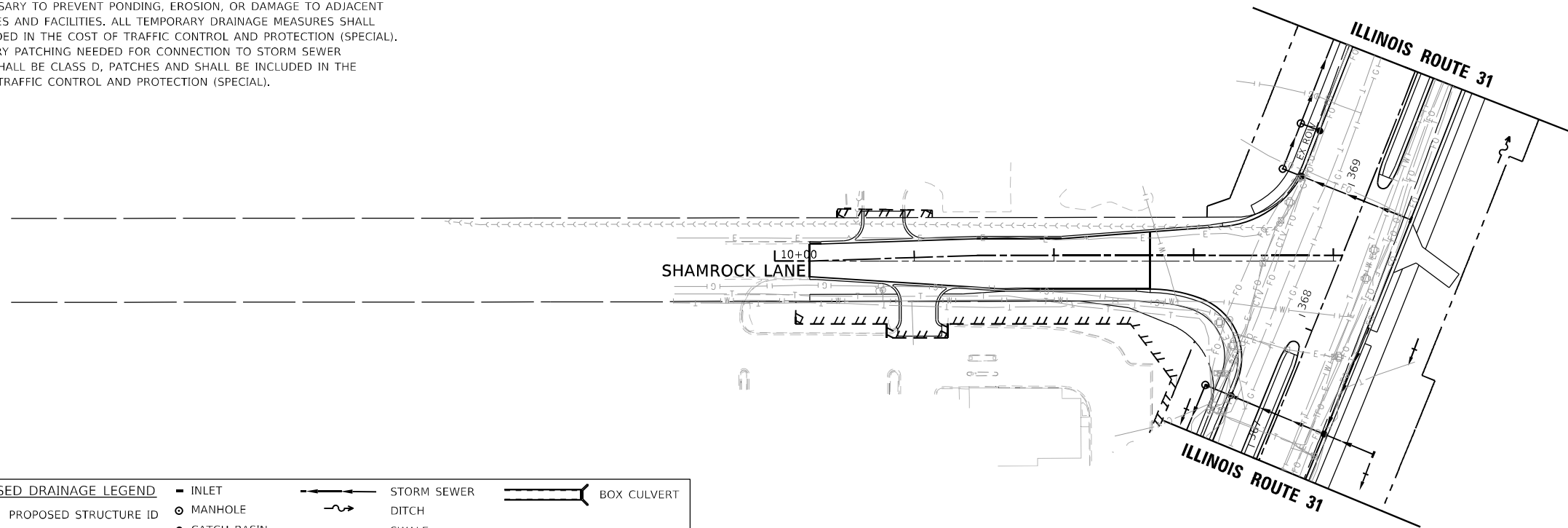
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,T5,SW	McHENRY	553	271
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

NOTES:
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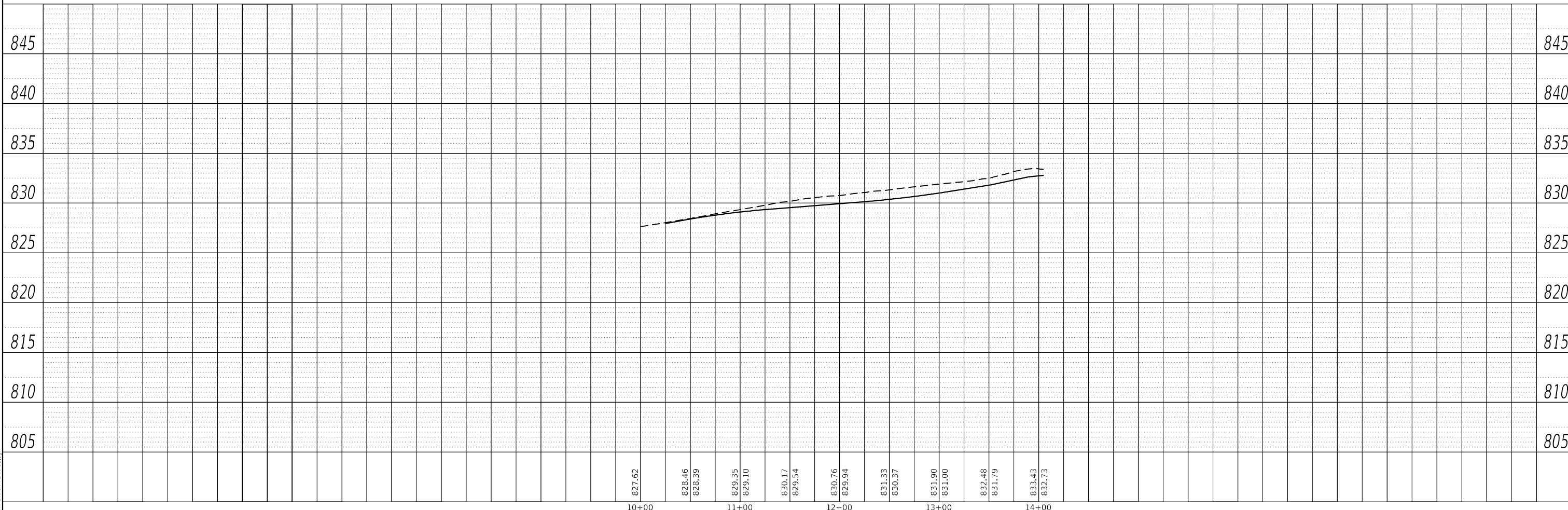


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PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATION CHECKED	
	NO.	



PROPOSED DRAINAGE LEGEND	
XXXX	PROPOSED STRUCTURE ID
XXXX	PROPOSED PIPE ID
—	INLET
○	MANHOLE
●	CATCH BASIN
◄	END SECTION
—	STORM SEWER
~	DITCH
—	SWALE
—	PIPE CULVERT WITH END SECTION
—	BOX CULVERT



MODEL: Default
 FILE NAME: C:\SHT\DRN\shamrock16.dgn



USER NAME = mzuuzio
PLOT SCALE = 100,0000' / in.
PLOT DATE = 2/19/2026

DESIGNED - DMS	REVISED - REVBY1
DRAWN - HRG	REVISED - REVBY2
CHECKED - TEH	REVISED - REVBY3
DATE - 1/9/2026	REVISED - REVBY4

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE
 SHAMROCK LANE

SCALE: 1"=50' SHEET 26 OF 26 SHEETS STA. 10+00 TO STA. 14+04.84

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,T5,SW	McHENRY	553	272
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

STR. NO.	STATION	OFFSET (FT)	PAY ITEM NO.	PAY ITEM DESCRIPTION	RIM ELEV.	INVERT ELEV.			
						NORTH	EAST	SOUTH	WEST
S14-33	288+50.00	36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	830.22		824.80		825.50
S14-34	288+50.00	68.6	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-				822.40
S14-36	289+21.00	89.9	54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	-	822.71			
S14-37	289+65.00	-36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	830.85		826.85		
S14-38	289+65.00	36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	830.85		825.41		825.41
S14-39	289+65.00	59.6	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	830.58	822.76		822.76	824.77
S14-40	291+60.00	-40.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	830.68		826.68		
S14-41	291+60.00	36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	830.76		825.29		825.29
S14-42	291+60.00	59.6	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	829.88	822.96		822.96	824.97
S14-43	292+85.00	-36.0	60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	830.13		823.18		823.18
S14-44	292+85.00	40.0	60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	830.05		823.10		823.10
S14-45	292+85.00	59.6	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	830.14	823.08		823.08	823.08
S14-46	293+00.00	-78.7	54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	-		823.22		
S14-47	293+00.00	84.1	54213681	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 36"	-				823.11
S14-48	293+65.00	-75.3	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-		823.43		
S14-49	293+65.00	-36.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	830.03				825.00
S15-01	294+10.00	-74.6	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-		823.56		
S15-02	294+10.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	830.39		825.10		825.10
S15-03	294+10.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	829.51				825.51
S15-04	295+20.00	-73.6	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-		823.89		
S15-05	295+20.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	829.88		824.54		824.54
S15-06	295+20.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	828.91				824.91
S15-07	296+20.00	-72.1	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-		824.20		
S15-08	296+20.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	829.38		824.32		824.32
S15-09	296+20.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	828.42				824.64
S15-10	297+20.00	-68.9	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-		824.50		
S15-11	297+35.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	828.81		824.63		824.63
S15-12	297+35.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	827.84				824.94
S15-13	298+55.00	-52.6	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	829.41	823.40	823.46		
S15-14	298+55.00	-36.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	828.21				823.54
S15-15	298+55.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	827.23	823.23			
S15-16	299+50.00	-52.6	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	828.05	822.84	822.98	822.84	
S15-17	299+50.00	-36.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	827.73				823.07
S15-18	299+50.00	36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	826.75		822.76	822.76	
S15-19	299+50.00	101.3	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-				821.80
S15-20	301+10.00	-52.6	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	826.38	822.37	822.39	822.37	
S15-21	301+10.00	-36.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	826.93				822.93
S15-22	301+10.00	36.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	825.96		822.05		
S15-23	301+10.00	101.3	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-				821.70
S15-24	302+25.00	-52.6	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	826.20		821.82	821.82	
S15-25	302+25.00	-14.1	60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	825.87		821.70		821.70
S15-26	302+25.00	0.0	60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	826.37		821.66		821.66
S15-27	302+25.00	36.0	60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	826.16		821.55		821.55
S15-28	302+25.00	65.0	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	-				821.45
S15-29	303+80.00	-52.6	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	825.78	821.36	821.36		
S15-30	303+80.00	-14.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	825.10		821.55		821.55
S15-31	303+80.00	-3.0	60236200	INLETS, TYPE A, TYPE 8 GRATE	825.60				821.60
S15-32	303+80.00	36.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	824.61		820.94		
S15-33	303+80.00	69.5	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-				820.80
S15-34	304+28.46	-70.9	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-			820.85	
S15-35	304+55.00	36.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	824.24		820.71		
S15-36	304+55.00	68.9	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-				820.57
S15-39	305+23.09	-71.3	54214515	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 30"	-	819.00			
S15-42	305+49.00	-50.6	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	824.19	819.03	819.42	819.03	
S15-43	305+66.00	-14.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	824.25		819.54		819.54
S15-44	305+50.40	36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	823.77				819.72
S16-01	360+35.50	-50.6	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	824.59	819.11	819.11	918.11	
S16-02	306+25.10	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	823.53	819.53			
S16-03	307+29.90	40.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	823.78			819.78	
S16-04	306+49.20	-7.3	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	824.17			819.67	
S16-05	307+62.66	7.3	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	824.14	820.14			
S16-06	307+90.00	40.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	824.58				820.58
S16-07	306+62.74	67.6	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	-	821.18			
S16-08	307+38.98	67.8	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	-			821.46	
S16-09	308+18.00	-50.6	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	825.68	819.29	819.29	819.29	
S16-10	308+18.50	5.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	824.66		819.80	819.80	819.80
S16-11	308+65.00	-50.6	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	826.19	819.52	819.52	819.52	
S16-12	308+65.00	5.9	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	825.10	820.88	820.88		820.88
S16-13	308+65.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	825.04				821.04
S16-14	309+00.00	5.9	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	825.41			822.12	
S16-15	310+05.00	-50.6	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	827.21		820.25	820.25	
S16-16	310+05.00	0.4	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	826.21	821.74	821.74		821.74
S16-17	310+05.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	826.04				822.04
S16-18	310+50.10	-3.7	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	826.53			822.60	
S16-19	309+26.26	71.7	54214503	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 18"	-	822.10			
S16-20	309+98.00	72.4	54214503	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 18"	-			822.25	
S16-21	314+14.17	-53.6	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	826.52	820.65	821.72		

STR. NO.	STATION	OFFSET (FT)	PAY ITEM NO.	PAY ITEM DESCRIPTION	RIM ELEV.	INVERT ELEV.			
						NORTH	EAST	SOUTH	WEST
S16-22	314+14.17	-14.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	826.61		821.87		821.87
S16-23	314+14.17	0.0	60208085	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	826.89		821.94		821.94
S16-24	314+14.17	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	826.12				822.12
S16-25	314+90.00	-53.6	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	825.78	820.43	821.35	820.43	
S16-26	314+90.00	-14.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	825.22	821.55			821.55
S16-27	315+55.00	-53.6	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	825.13	819.73	820.54	819.73	
S16-28	315+55.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	825.68		821.09		821.09
S16-29	315+55.00	0.0	60208085	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	826.97		821.27		821.27
S16-30	315+55.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	825.45				821.45
S16-31	316+80.00	-53.6	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	825.00	819.37	820.16	819.37	
S16-32	316+80.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	824.82		820.46		820.46
S16-33	316+80.00	0.0	60208085	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	825.60		820.64		820.64
S16-34	316+80.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	824.82				820.82
S16-35	317+20.00	-36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	824.69	820.69			
S16-36	317+35.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	824.67	820.62		820.62	
S16-37	317+50.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	824.67	820.18	820.18	820.18	820.18
S16-38	317+65.00	-36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	824.67			820.67	
S16-39	317+20.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	824.69	820.69			
S16-40	317+35.00	36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	824.67	820.62		820.62	
S16-41	317+50.00	36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	824.67	820.54		820.54	820.54
S16-42	317+65.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	824.67			820.67	
S16-43	317+50.00	0.0	60208085	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	825.47		820.36		820.36
S16-44	317+50.00	-50.6	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	824.87	819.24	820.09	819.24	
S16-45	318+45.00	-50.6	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	825.14	819.15	820.49	819.15	
S16-46	318+45.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	824.94		820.58		820.58
S16-47	318+45.00	0.0	60208085	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	825.74		820.76		820.76
S16-48	318+45.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	824.94				820.94
S16-49	315+25.00	-14.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	826.05			821.87	
S16-50	306+35.15	36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	823.53	819.35		819.35	819.35
S16-51	306+45.24	36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	823.54	819.38		819.38	

STR. NO.	STATION	OFFSET (FT)	PAY ITEM NO.	PAY ITEM DESCRIPTION	RIM ELEV.	INVERT ELEV.			
						NORTH	EAST	SOUTH	WEST
S17-47	323+43.43	83.8	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	-	821.15			
S17-48	325+17.11	83.4	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	-			821.67	
S17-49	332+75.00	-47.9	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	825.65		820.98	820.46	
S17-50	332+75.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	825.40		821.07		821.07
S17-51	332+75.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	825.36				821.44
S17-52	324+66.00	134.4	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	824.10		820.02		
S17-53	324+66.00	144.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	824.24			819.92	819.92
S17-54	323+97.43	138.8	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	824.08		819.98		
S17-55	323+98.00	148.8	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	823.97	819.24	818.99		819.88
S17-56	323+92.50	154.7	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	824.40		818.30EX		818.83
S18-01	333+65.00	-53.6	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	825.15	820.80			
S18-02	333+65.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	826.10		820.76		820.76
S18-03	333+65.00	36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	826.10		820.56		820.56
S18-04	334+49.26	-53.6	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	826.15		821.04		
S18-05	334+49.26	-36.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	826.72				821.18
S18-06	344+01.50	75.9	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	828.21	821.13		821.13	
S18-07	336+85.00	78.1	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	824.35			820.29	819.00
S18-08	336+85.00	36.0	60205040	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	826.78				818.81
S18-09	337+65.00	-53.6	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	825.50	817.37	818.05		
S18-10	337+65.00	-36.0	60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	826.38		818.11		818.11
S18-11	337+65.00	36.0	60224039	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 24 FRAME AND GRATE	826.39		821.58	818.44	818.44
S18-12	333+65.00	66.5	60220200	MANHOLE, TYPE A, 4'-DIAMETER - WITH SPECIAL GRATE, NEENAH R-4342 GRATE	825.50	821.23			820.50
S18-13	338+70.00	-53.6	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	825.31	817.07	819.22	817.07	819.22
S18-14	338+70.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	825.86		819.51		819.51
S18-15	338+70.00	42.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	825.74				820.74
S18-16	339+50.00	48.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	825.24	821.24			
S18-17	340+15.00	-62.1	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	823.33		819.33		
S18-18	340+15.00	-53.6	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	824.59	815.94	817.95	815.94	819.06
S18-19	340+15.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	825.13		818.09		818.09
S18-20	340+15.00	48.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	824.89			819.46	819.46
S18-21	340+80.00	-53.6	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	824.28	815.88	818.72	815.88	
S18-22	340+80.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	824.14		819.10		819.10
S18-23	340+80.00	48.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	824.57				820.57
S18-24	341+58.00	-73.7	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	823.00	818.41	818.41		
S18-26	341+50.00	-54.6	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	824.23	815.82	818.65	815.82	818.20
S18-27	341+50.00	-43.9	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	824.04		818.81		818.81
S18-28	341+50.00	50.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	824.04				820.04
S18-29	343+07.71	-63.3	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	825.00	815.67	816.33	815.67	
S18-30	343+60.00	-63.6	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	823.10	815.62	818.44	815.62	
S18-31	343+07.71	44.7	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	823.95			816.76	816.76
S18-32	342+55.58	98.7	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	823.70	817.04	817.04		
S18-33	342+62.30	127.0	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	824.25		817.16	817.81	817.16
S18-34	342+55.68	127.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	822.52	817.88	818.40	817.88	
S18-35	342+05.60	127.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	822.51	818.13	818.38		
S18-36	343+60.00	-48.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	823.17		818.63		818.63
S18-37	343+60.00	36.8	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	823.41	819.06			819.06
S18-38	343+85.68	65.0	60236200	INLETS, TYPE A, TYPE 8 GRATE	822.75			819.25	
S18-39	344+40.00	-63.6	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	822.07	815.55	818.36	815.55	
S18-40	344+40.00	-48.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	822.77				818.77
S18-41	345+00.00	-63.6	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	821.70	815.50	817.30	815.50	
S18-42	345+00.00	-48.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	822.47		817.38		817.38
S18-43	345+00.00	36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	822.71	817.80			817.80
S18-44	345+20.41	62.8	60236200	INLETS, TYPE A, TYPE 8 GRATE	820.97			817.97	
S18-45	345+90.00	-60.3	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	821.32	815.42	817.96	815.42	
S18-46	345+90.00	-48.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	822.09	815.46			818.09
S18-47	337+48.00	71.4	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	-				822.64
S18-48	342+05.60	143.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	822.53				818.53
S18-49	342+55.68	143.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	822.55				818.55
S18-50	341+90.25	-84.6	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	822.58			818.58	
S18-51	339+61.14	52.8	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	825.60	820.00	822.42	821.00	
S18-52	335+33.00	72.0	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	-	823.60			
S18-53	335+91.00	73.2	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	-			823.42	
S18-54	339+61.43	71.5	X6020096	MANHOLES, TYPE A, 6'-DIAMETER, WITH 2 TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	826.60		822.57EX		822.57
S19-01	346+40.00	-53.2	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	822.14	815.38	817.41	815.38	
S19-02	346+40.00	-41.7	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	821.23		817.62		817.62
S19-03	346+40.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	822.01				818.01
S19-04	347+75.00	-50.1	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	821.54	815.25	816.78	815.25	
S19-05	347+75.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	821.33		816.97		816.97
S19-06	347+75.00	0.0	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	822.13		817.15		817.15
S19-07	347+75.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	821.33				817.33
S19-08	349+00.00	-50.1	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	820.92	814.64	815.70	815.13	
S19-09	349+00.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	820.71	815.98	816.35		815.98
S19-10	349+00.00	-5.0	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	821.57		816.50		816.50
S19-11	349+00.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	820.71				816.71
S19-13	349+65.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	820.38		816.26		816.26
S19-14	349+65.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	820.38				816.58
S19-15	350+03.50	-50.1	X1200042	MANHOLES, TYPE A, 9'-DIAMETER, WITH 2 TYPE 1 FRAMES, CLOSED LID, RESTRICTOR PLATE	820.40	814.54		815.54	

STR. NO.	STATION	OFFSET (FT)	PAY ITEM NO.	PAY ITEM DESCRIPTION	RIM ELEV.	INVERT ELEV.			
						NORTH	EAST	SOUTH	WEST
S19-16	351+96.70	-71.6	54214521	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 36"	-			814.50	
S19-18	352+07.11	-52.8	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	819.90	814.52			814.52
S19-19	350+45.00	-50.6	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	820.22	814.51	815.35	814.51	
S19-20	350+45.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	819.98		815.62		815.62
S19-21	350+45.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	819.98				815.98
S19-22	350+55.40	-67.1	54214521	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 36"	814.49				
S19-23	351+00.00	36.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	819.72	815.72			
S19-23a	351+22.20	44.9		CONNECTION TO BOX CULVERT					813.91
S19-24	351+30.00	36.0	60404950	FRAMES AND GRATES, TYPE 24	819.64				
S19-25	351+45.00	36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	819.62	815.46			814.44
S19-25a	351+35.83	32.4		CONNECTION TO BOX CULVERT		813.88			
S19-26	351+59.00	36.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	819.61	815.51			815.51
S19-27	351+75.00	38.2	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	819.58				815.62
S19-28	351+30.50	-36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	819.64	815.62			
S19-29	351+43.70	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	819.62	814.32			815.55
S19-29a	351+53.07	-32.2		CONNECTION TO BOX CULVERT					813.76
S19-30	351+58.88	-36.0	60404950	FRAMES AND GRATES, TYPE 24	819.61				
S19-31	351+75.40	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	819.62	815.57			814.37
S19-31a	351+64.81	-40.1							

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STR. NO.	STATION	OFFSET (FT)	PAY ITEM NO.	PAY ITEM DESCRIPTION	RIM ELEV.	INVERT ELEV.			
						NORTH	EAST	SOUTH	WEST
S20-34	370+10.00	-62.5	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	832.26	826.11	827.21	826.11	
S20-35	370+10.00	-48.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	832.78		827.47		827.47
S20-36	370+10.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	833.00				829.00
S20-37	370+46.00	-62.5	X6020096	MANHOLES, TYPE A, 6'-DIAMETER, WITH 2 TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	832.44			826.05	826.05
S20-38	370+60.70	-92.2	54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	-		826.00		
S20-39	370+95.00	-87.2	54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	-		826.00		
S20-40	370+95.00	-62.2	X6020096	MANHOLES, TYPE A, 6'-DIAMETER, WITH 2 TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE	832.67		826.05		826.05
S20-41	370+95.00	-48.0	60224039	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 24 FRAME AND GRATE	833.20	826.08	829.00		826.08
S20-42	370+95.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	833.43				829.43
S20-43	371+89.97	-42.1	60205040	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	833.78		829.51	826.27	
S20-44	371+90.02	36.2	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	833.91				829.91
S20-45	371+70.93	-85.9	54213687	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 42"	-		826.05		
S20-46	372+00.00	-56.1	X6020293	MANHOLES, TYPE A, 8'-DIAMETER, WITH 2 TYPE 1 FRAMES, CLOSED LID, RESTRICTOR PLATE	833.33	826.09			826.09
S20-47	372+95.00	-50.5	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	833.95	826.18	828.69	826.18	
S20-48	372+95.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	834.43		828.77		828.77
S20-49	372+95.00	36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	834.43	829.13	829.13		829.13
S20-50	372+88.33	60.6	60236200	INLETS, TYPE A, TYPE 8 GRATE	832.20				829.25
S20-51	370+73.89	-89.6	54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	-		825.69		
S20-52	370+73.90	79.3	54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	-				826.25
S20-53	363+40.00	73.3	60236200	INLETS, TYPE A, TYPE 8 GRATE	829.63				825.82
S21-01	373+30.00	36.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	834.61			830.61	
S21-02	374+00.00	-50.5	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	835.20		829.88	826.28	
S21-03	374+00.00	-36.0	60205040	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	834.96		829.94		829.94
S21-04	374+00.00	36.0	60224449	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 24 FRAME AND GRATE	834.96	830.34	830.34		830.34
S21-05	374+08.40	60.3	60236200	INLETS, TYPE A, TYPE 8 GRATE	833.50				830.44
S21-07	376+15.00	-59.6	60202405	CATH BASINS, TYPE A, 4'-DIAMETER (NEENAH R-4342 GRATE)	836.00		832.13		
S21-08	376+15.00	-50.5	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	836.89	832.10	832.10		832.10
S21-09	376+15.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	837.40		832.04		832.04
S21-10	376+15.00	42.5	60224039	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 24 FRAME AND GRATE	837.28		831.92	831.60	831.60
S21-11	376+12.49	67.8	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	835.03				832.03
S21-12	377+00.00	-50.5	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	837.83	833.13	833.13	833.13	
S21-13	377+00.00	-36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	838.38		833.27		833.27
S21-14	377+00.00	36.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	838.38				834.02
S21-16	377+60.00	-59.6	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	837.26		833.76		
S21-17	377+60.00	-50.5	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	838.51		834.56	833.41	833.86
S21-18	377+60.00	-36.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	839.06				834.84
S21-19	381+85.66	-54.6	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	837.99	832.31		833.99	
S21-20	383+20.00	-54.6	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	837.40	832.31	832.90	832.31	
S21-21	383+20.00	-36.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	837.71				833.71
S21-22	380+57.36	61.6	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	838.50	834.56			
S21-23	381+77.00	59.6	60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	837.79	832.25		833.39	833.05
S21-24	381+77.00	36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	838.86		834.00		834.00
S21-25	383+19.92	59.6	60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	836.90	830.86		830.86	833.18
S21-26	383+19.92	36.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	837.69		833.69		833.69
S21-27	384+34.85	65.2	60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	835.80	829.74		829.74	832.24
S21-28	384+34.85	41.1	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	836.65		832.65		832.65
S21-29	385+09.60	61.9	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	837.24			829.03	829.03
S21-30	385+25.00	45.8	60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	836.76		828.76		828.76
S21-31	385+25.00	-36.0	60219540	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	836.07		827.59		827.59
S21-32	385+25.00	-59.3	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	834.12	824.15EX	827.31	828.32	
S21-35	380+34.00	-40.3	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	839.84	835.48			
S21-37	375+77.71	77.7	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	836.71		831.36EX		
S21-38	381+77.57	0.0	60236200	INLETS, TYPE A, TYPE 8 GRATE	839.68		835.50		
S21-39	383+20.10	0.0	60236200	INLETS, TYPE A, TYPE 8 GRATE	838.54		834.00		
S21-40	384+35.26	-3.1	60236200	INLETS, TYPE A, TYPE 8 GRATE	837.60		833.60		
S22-01	388+94.24	73.8	60236200	INLETS, TYPE A, TYPE 8 GRATE	832.70			828.70	
S22-02	390+27.15	47.1		EXISTING CATCH BASIN TO REMAIN			826.75EX		
S22-03	389+93.02	74.3	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	831.00				827.00
ES11-35	388+46.3	60.8		EXISTING CATCH BASIN TO REMAIN	834.30	828.02EX			
S24-01	6+72.71	22.8	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-				858.73
S24-02	7+33.65	23.6	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-		858.95		
S25-01	12+54.00	-27.7	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	825.34		818.78	819.78	818.78
S25-02	12+54.00	-20.4	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRAT	824.16	819.82		819.82	
S25-03	12+54.23	25.0	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	824.04	820.04			
S25-04	13+23.51	-22.5	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	825.34		820.72		820.22
S25-05	13+80.40	-12.0	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRAT	826.31			821.17	820.92
S25-06	13+96.97	16.9	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRAT	826.49	821.38		821.38	
S25-07	13+96.97	28.1	60236200	INLETS, TYPE A, TYPE 8 GRATE	825.50	821.50			
S25-08	10+33.68	25.6	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	812.35		804.31		804.31
S25-09	11+14.27	25.4	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	813.68	808.13	805.91		804.91
S25-10	11+14.27	18.5	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRAT	812.64	808.27		808.27	
S25-11	11+14.27	-12.8	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	812.75			808.75	
S25-12	12+73.88	18.8	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRAT	813.57	809.00	807.09		807.09
S25-13	12+77.18	-13.7	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	813.68			809.54	
S25-14	13+20.17	21.5	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRAT	813.89	809.25	807.41		807.41
S25-15	13+20.17	-13.6	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	814.07			809.77	

STR. NO.	STATION	OFFSET (FT)	PAY ITEM NO.	PAY ITEM DESCRIPTION	RIM ELEV.	INVERT ELEV.			
						NORTH	EAST	SOUTH	WEST
S25-15	13+20.17	-13.6	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	814.07				809.77
S25-16	14+00.00	23.2	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRAT	814.45	809.79	807.99		807.99
S25-17	14+00.00	-14.5	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	814.61				810.18
S25-18	14+60.00	27.6	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRAT	814.80	810.04	808.43		808.43
S25-19	14+60.00	-15.7	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	815.03				810.48
S25-20	15+34.66	34.3	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRAT	815.67	810.96	808.97		808.97
S25-21	15+34.66	-17.3	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	816.03				811.49
S25-22	15+45.80	35.2	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRAT	815.90		809.06		809.06
S25-23	16+19.12	36.0	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRAT	817.46	813.08	812.08		809.58
S25-24	16+19.12	-19.9	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	817.70				817.43
S25-25	17+17.70	36.0	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRAT	819.55	815.39			812.79
S25-26	17+17.70	-23.6	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	819.80				815.69
S25-27	9+73.50	22.7		EXISTING MANHOLE TO REMAIN				803.75	803.75EX

CONNECTION TO EXISTING SEWER
(X0322463)

STRUCTURE	EACH	TYPE
S18-54	1	12" RCP
S21-32	1	36" RCP
S21-37	2	12" RCP
S22-02	1	-
S25-27	1	-
TOTAL	6	

ALL EX INVERTS AND PIPE SIZES SHALL BE (FV)
FIELD VERIFIED

BOX CULVERT AND BOX CULVERT END SECTION SCHEDULE

54010603	PRECAST CONCRETE BOX CULVERTS	6' X 3'	
54001011	BOX CULVERT END SECTIONS, CULVERT NO. 11		
CULVERT #	LOCATION	QUANTITY	END SECTIONS
11	320+02	136	2
	TOTAL	136	

54011203	PRECAST CONCRETE BOX CULVERTS	12' X 3'	
54001012	BOX CULVERT END SECTIONS, CULVERT NO. 12		
Culvert #	LOCATION	QUANTITY	END SECTIONS
12	351+50	132	2

54010805	PRECAST CONCRETE BOX CULVERTS	8' X 5'	
54001009	BOX CULVERT END SECTIONS, CULVERT NO. 9		
CULVERT #	LOCATION	QUANTITY	END SECTIONS
9	287+95	152	2

54011202	PRECAST CONCRETE BOX CULVERTS	12' X 2'	
54001008	BOX CULVERT END SECTIONS, CULVERT NO. 8		
54001010	BOX CULVERT END SECTIONS, CULVERT NO. 10		
CULVERT #	LOCATION	QUANTITY	END SECTIONS
8	273+30	384	2
10	304+81	128	2
	TOTAL	512	

STONE RIPRAP, CLASS A4 (28100107)
FILTER FABRIC (28200200)

LOCATION	SQ YD
S11-54	50
CULVERT 8	80
CULVERT 9	80
CULVERT 10	70
CULVERT 11	45
TOTAL	325

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE SCHEDULES
STRUCTURE SCHEDULE**

		
USER NAME = mzuzlo	DESIGNED - DMS	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - HRG	REVISED -

MODEL - SHEET_05
 FILE NAME - p:\pattico\pwr\benj\com\pattico\pwr\DOT\Documents\DOT\212717\01812_Drain12_3_CADD\SHEET\SC3-SHT\DRAIN-SCHED.dgn

PIPE NO.	LOCATION		SIZE	PAY ITEM NO.	PAY ITEM DESCRIPTION	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CU YD)
	FROM STR.	TO STR.						
P10-01	S10-01	S10-9	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	166	0.60%	0
P10-02	S10-02	S10-30	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	62	0.48%	9.2
P10-03	S10-03	S10-4	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	69	0.72%	12.7
P10-04	S10-04	S10-5	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	19	0.61%	5.5
P10-05	S10-05	S10-8	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	66	0.50%	0
P10-06	S10-06	S10-7	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	69	0.63%	12.7
P10-07	S10-07	S10-8	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	19	0.70%	6.3
P10-08	S10-08	S11-06	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	160	0.50%	0
P10-09	S10-09	S11-01	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	62	0.50%	6.8
P11-01	S11-01	S11-02	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	16	0.53%	0
P11-03	S11-03	S11-04	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	57	0.94%	10.4
P11-04	S11-04	S11-05	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	68	0.94%	12.8
P11-05	S11-05	S11-06	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	19	1.06%	6.7
P11-06	S11-06	S11-12	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	117	0.50%	0
P11-07	S11-07	S11-08	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	58	0.31%	3.8
P11-09	S11-09	S11-11	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	69	0.72%	12.9
P11-10	S11-10	S11-16	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	38	1.00%	12.9
P11-11	S11-11	S11-12	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	19	0.80%	5.9
P11-12	S11-12	S11-18	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	123	0.45%	5
P11-14	S11-14	S11-13	18	542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	63	0.31%	3.9
P11-15	S11-15	S11-16	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	34	0.64%	6
P11-16	S11-16	S11-17	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	32	0.68%	6.3
P11-17	S11-17	S11-18	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	19	0.37%	5.5
P11-18	S11-18	S11-23	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	65	0.45%	0
P11-19	S11-19	S11-20	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	23	3.26%	3.8
P11-20	S11-20	S11-21	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	34	0.53%	6.9
P11-21	S11-21	S11-22	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	32	0.56%	9.7
P11-22	S11-22	S11-23	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	19	0.74%	6.3
P11-23	S11-23	S11-32	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	58	0.50%	0
P11-24	S11-24	S11-22	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	23	4.83%	6.3
P11-25	S11-25	S11-20	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	23	3.26%	3.8
P11-26	S11-26	S11-22	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	23	4.83%	4.4
P11-27	S11-27	S11-28	18	542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	49	0.49%	4
P11-29	S11-29	S11-30	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	33	0.55%	4.8
P11-30	S11-30	S11-31	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	32	0.56%	6.3
P11-31	S11-31	S11-32	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	19	3.91%	5.9
P11-32	S11-32	S11-33	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	42	0.43%	0
P11-33	S11-33	S11-34	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	18	0.45%	0
P11-36	S11-36	S11-37	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	69	1.27%	15.5
P11-37	S11-37	S11-38	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	19	1.44%	6.7
P11-38	S11-38	S11-35	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	17	1.50%	0
P11-40	S11-40	S11-39	18	542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	61	1.00%	3.1
P11-41	S11-41	S11-42	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	69	1.01%	14
P11-42	S11-42	S11-43	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	19	0.50%	5.9
P11-43	S11-43	S11-38	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	110	0.91%	0
P11-44	S11-44	S11-42	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	72	0.50%	14.6
P11-46	S11-46	S11-45	15	542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	71	1.00%	0
P11-47	S11-47	S11-48	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	69	0.50%	12.5
P11-48	S11-48	S11-49	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	19	0.50%	5.5
P11-49	S11-49	S11-43	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	112	1.21%	0
P11-50	S11-50	S12-01	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	176	1.90%	0
P11-51	S11-51	S11-50	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	11	1.00%	3.5
P11-52	S11-52	S11-51	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	80	0.65%	16.3
P11-53	S11-53	S11-54	42	550A0180	STORM SEWERS, CLASS A, TYPE 1 42"	134	0.37%	65.3
P11-54	EX PIPE	S11-01	15	550B0070	STORM SEWERS, CLASS B, TYPE 1 15"	13	2.00%	0
P12-01	S12-01	S12-03	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	64	2.10%	0
P12-02	S12-02	S12-01	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	10	1.76%	3.5
P12-03	S12-03	S12-07	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	76	2.10%	0
P12-04	S12-04	S12-03	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	14	2.32%	4.7
P12-05	S12-05	S12-04	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	69	0.52%	10
P12-06	S12-07	S12-06	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	7	4.00%	0
P12-07	S12-07	S12-08	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	166	1.65%	0
P12-08	S12-08	S12-12	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	246	1.65%	0
P12-09	S12-09	S12-08	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	15	0.67%	4.5
P12-10	S12-10	S12-09	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	32	1.50%	6.3
P12-11	S12-11	S12-10	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	33	0.55%	5.9
P12-12	S12-12	S12-16	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	216	1.10%	0
P12-13	S12-13	S12-12	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	16	1.46%	4.4
P12-14	S12-14	S12-13	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	28	0.57%	6.3
P12-15	S12-15	S12-14	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	37	0.54%	7.6
P12-16	S12-16	S12-19	24	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	95	0.50%	0
P12-17	S12-17	S12-16	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	15	0.60%	4.1
P12-18	S12-18	S12-17	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	68	0.53%	12.5
P12-19	S12-19	S12-22	24	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	95	0.50%	0
P12-20	S12-20	S12-19	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	14	0.64%	4.1
P12-21	S12-21	S12-20	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	69	0.52%	12.5
P12-22	S12-22	S12-25	24	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	80	0.50%	0
P12-23	S12-23	S12-22	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	14	0.64%	4.1

PIPE NO.	LOCATION		SIZE	PAY ITEM NO.	PAY ITEM DESCRIPTION	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CU YD)
	FROM STR.	TO STR.						
P12-24	S12-24	S12-23	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	69	0.52%	12.5
P12-25	S12-25	S13-02	24	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	145	0.50%	0
P12-26	S12-26	S12-25	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	14	0.64%	4.4
P12-27	S12-27	S12-26	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	69	0.52%	12.5
P12-28	S12-28	S12-18	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	56	1.60%	9.2
P13-01	S13-01	S13-03	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	62	1.16%	11.3
P13-02	S13-02	S13-06	24x38	550A5100	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 30"	130	0.16%	0
P13-03	S13-03	S13-02	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	13	0.69%	4.4
P13-04	S13-04	S13-03	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	69	0.52%	12.5
P13-05	S13-05	S13-07	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	42	0.60%	6.9
P13-06	S13-06	S13-09	24x38	550A5100	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 30"	77	0.19%	0
P13-07	S13-07	S13-06	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	13	2.08%	3.8
P13-08	S13-08	S13-12	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	85	0.53%	13.7
P13-09	S13-09	S13-10	24x38	550A5100	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 30"	11	0.19%	6.4
P13-10	S13-10	S13-11	24x38	550A5100	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 30"	30	0.19%	4.1
P13-11	S13-11	S13-12	24x38	550A5100	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 30"	30	0.19%	5
P13-12	S13-12	S13-13	24x38	550A5100	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 30"	31	0.16%	5.2
P13-14	S13-14	S13-43	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	25	1.60%	2.6
P13-15	S13-15	S13-16	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	26	0.58%	3.4
P13-17	S13-17	S13-14	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	27	0.81%	3.8
P13-19	S13-19	S13-15	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	24	0.71%	3.4
P13-20	S13-20	S13-21	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	69	0.52%	10.3
P13-21	S13-21	S13-22	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	19	0.61%	5.5
P13-22	S13-22	S13-25	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	61	1.25%	0
P13-23	S13-23	S13-24	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	69	0.89%	12.5
P13-24	S13-24	S13-25	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	19	1.25%	5.9
P13-25	S13-25	S13-29	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	100	0.30%	9.6
P13-28	S13-28	S13-29	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	19	0.57%	4.7
P13-29	S13-29	S13-32	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	64	0.50%	0
P13-30	S13-30	S13-31	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	69	0.48%	12.5
P13-31	S13-31	S13-32	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	19	0.57%	5.5
P13-32	S13-32	S13-37	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	111	0.80%	5.3
P13-33	S13-33	S13-32	15	542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	6	1.00%	1.9
P13-35	S13-35	S13-39	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	77	0.52%	4.7
P13-36	S13-36	S13-37	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	16	5.19%	5.4
P13-37	S13-37	S13-40	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	75	0.50%	6.1
P13-38	S13-38	S13-41	18	542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	88	0.91%	4.8
P13-39	S13-39	S13-40	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	93	0.52%	15.9
P13-40	S13-40	S14-03	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	171	0.60%	0
P13-42	S13-42	S14-01	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	62	0.68%	9.9
P14-01	S14-01	S14-02	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	68	0.69%	12.5
P14-02	S14-02	S14-03	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	20	0.92%	5.1

MODEL - SHEET_07
FILE NAME - p:\patricco\paw_bentley.com\PATRICCO-3W-07\Documents\DOT\2127177_01812_Design\12_3_CADD\SSHEETS\C3-SHT-DBAN-SCHED.dgn

PIPE NO.	LOCATION		SIZE	PAY ITEM NO.	PAY ITEM DESCRIPTION	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CU YD)
	FROM STR.	TO STR.						
P18-21	S18-21	S18-26	29x45	Z0056637	STORM SEWER (WATER MAIN REQUIREMENTS) EQUIVALENT ROUND-SIZE 36 INCH	64	0.10%	0
P18-22	S18-22	S18-21	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	13	2.92%	9.5
P18-23	S18-23	S18-22	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	81	1.81%	18.1
P18-24	S18-24	S18-26	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	16	1.31%	0
P18-26	S18-26	S18-29	29x45	550A5300	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36"	131	0.10%	175.8
				Z0056622	STORM SEWER (WATER MAIN REQUIREMENTS) 36 INCH	21		
P18-27	S18-27	S18-26	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	6	2.58%	7.4
P18-28	S18-28	S18-27	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	92	1.34%	20.5
P18-29	S18-29	S18-30	29x45	550A5300	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36"	47	0.10%	0
P18-30	S18-30	S18-39	29x45	550A5300	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36"	74	0.10%	0
P18-31	S18-31	S18-29	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	83	0.41%	82.6
				Z0056616	STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH	21		
P18-32	S18-32	S18-31	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	66	0.42%	20.4
P18-33	S18-33	S18-32	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	26	0.46%	0
P18-34	S18-34	S18-33	15	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	3	2.33%	2.4
P18-35	S18-35	S18-34	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	47	0.53%	10.9
P18-36	S18-36	S18-30	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	11	1.73%	3.8
P18-37	S18-37	S18-36	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	81	0.52%	18.3
P18-38	S18-38	S18-37	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	24	0.54%	8.9
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	12		
P18-39	S18-39	S18-41	29x45	550A5300	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36"	54	0.10%	0
P18-40	S18-40	S18-39	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	11	3.73%	3
P18-41	S18-41	S18-45	29x45	550A5300	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36"	84	0.10%	0
P18-42	S18-42	S18-41	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	11	0.73%	3.8
P18-43	S18-43	S18-42	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	80	0.50%	19.9
				550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	22		
P18-44	S18-44	S18-43	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	10	0.53%	6.1
P18-45	S18-45	S19-01	29x45	550A5300	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36"	44	0.10%	0
P18-46	S18-46	S18-45	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	11	0.36%	2.8
P18-47	S18-47	S18-11	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	38	2.84%	5.6
P18-48	S18-48	S18-35	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	1.25%	2.6
P18-49	S18-49	S18-34	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	1.25%	2.6
P18-50	S18-50	S18-24	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	33	0.52%	1.1
P18-51	S18-51	S18-20	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	50	1.08%	37
P18-52	S18-52	S18-53	15	542A0220	PIPE CULVERTS, CLASS A, TYPE 1 15"	58	0.31%	2.2
P18-53	S18-54	S18-51	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	14	1.07%	2.3
P18-54	S18-06	S18-07	15	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	279	0.30%	15.6
P19-01	S19-01	S19-04	29x45	550A4500	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	129	0.10%	71.7
P19-02	S19-02	S19-01	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	7	3.00%	3.6
P19-03	S19-03	S19-02	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	75	0.52%	8.4
P19-04	S19-04	S19-08	29x45	550A4500	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	119	0.10%	119.5
P19-05	S19-05	S19-04	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	9	2.17%	4.8
P19-06	S19-06	S19-05	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	32	0.56%	6.3
P19-07	S19-07	S19-06	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	33	0.55%	5.9
P19-08	S19-08	S19-19	29x45	550A4500	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	96	0.10%	70
P19-09	S19-09	S19-08	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	9	3.11%	5.4
P19-10	S19-10	S19-09	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	27	0.57%	6.3
P19-11	S19-11	S19-10	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	38	0.55%	7.7
P19-13	S19-13	S19-09	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	61	0.46%	3.7
P19-14	S19-14	S19-13	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	69	0.46%	10.1
P19-15	S19-15	S19-19	29x45	550A4500	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	34	0.10%	60
P19-20	S19-20	S19-19	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	9	3.00%	4.8
P19-21	S19-21	S19-20	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	69	0.52%	12.5
P19-22	S19-18	S19-16	29x45	550A4500	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	18	0.10%	0
P19-23	S19-23	S19-23a	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	23	7.87%	4.6
P19-24	S19-25	S19-25a	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	8	7.00%	2.3
P19-25	S19-26	S19-25	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	10	0.50%	2.5
P19-27	S19-27	S19-26	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	13	0.85%	2.8
P19-28	S19-28	S19-29	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	10	0.70%	2.6
P19-29	S19-29	S19-29a	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	8	7.00%	2.5
P19-30	S19-30	S19-22	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	10	0.80%	4.6
P19-31	S19-31	S19-31a	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	9	7.00%	2.8
P19-32	S19-32	S19-31	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	0.58%	2.5
P19-33	S19-33	S19-18	29x45	550A4500	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	50	0.10%	30
P19-34	S19-34	S19-36	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	25	0.68%	4.5
P19-35	S19-35	S19-33	29x45	550A4500	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	21	0.10%	9
P19-36	S19-36	S19-35	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	10	0.75%	4.8
P19-37	S19-37	S19-36	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	73	0.52%	13.2
P19-38	S19-38	S19-35	29x45	550A4500	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	50	0.10%	42.5
P19-39	S19-39	S19-38	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	10	0.77%	4.5
				550A5300	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36"	123		
P19-40	S19-40	S19-57	29x45	Z0056637	STORM SEWER (WATER MAIN REQUIREMENTS) EQUIVALENT ROUND-SIZE 36 INCH	21	0.10%	198.8
P19-41	S19-41	S19-40	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	10	1.50%	6.2
P19-42	S19-42	S19-41	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	69	0.73%	16.9
P19-43	S19-43	S19-40	29x45	550A5300	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36"	94	0.10%	164.2
P19-44	S19-44	S19-43	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	10	3.12%	9.5

PIPE NO.	LOCATION		SIZE	PAY ITEM NO.	PAY ITEM DESCRIPTION	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CU YD)
	FROM STR.	TO STR.						
P19-45	S19-45	S19-44	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	70	1.56%	15.7
P19-46	S19-46	S19-43	29x45	550A5300	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36"	74	0.10%	148.3
P19-47	S19-47	S19-46	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	88	2.61%	33
P19-48	S19-48	S19-47	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	11	2.66%	4.1
				Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	21		
P19-49	S19-49	S19-47	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	32	2.47%	9
P19-50	S19-50	S19-46	29x45	550A5300	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36"	64	0.10%	129.8
P19-51	S19-51	S19-50	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	11	0.79%	11.7
P19-52	S19-52	S20-03	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	29	3.03%	4.3
P19-53	S19-53	S19-57	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	10	0.82%	4.8
P19-54	S19-54	S19-53	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	70	0.52%	12.7
P19-57	S19-57	S19-38	29x45	550A4500	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 36"	144	0.10%	151.2
P19-59	S19-59	S19-58	14x23	542A5473	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 18"	90	1.51%	101.2
P20-01	S20-01	S19-50	29x45	550A5300	STORM SEWERS, CLASS A, TYPE 2 EQUIVALENT ROUND-SIZE 36"	116	0.10%	105.8
P20-02	S20-02	S20-01	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	15	2.70%	8.6
P20-03	S20-03	S20-02	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	32	2.25%	7.1
P20-04	S20-04	S20-03	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	33	2.18%	7.1
P20-05	S20-05	S20-01	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	173	1.20%	0
P20-06	S20-06	S20-05	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	16	3.17%	11.1
P20-07	S20-07	S20-06	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	69	2.09%	12.6
P20-08	S20-08	S20-05	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	135	3.00%	0
P20-09	S20-09	S20-08	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	15	2.45%	11.1
P20-10	S20-10	S20-09	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	32	2.25%	8.6
P20-11	S20-11	S20-10	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	32	2.25%	6.9
P20-12	S20-12	S20-08	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	131	0.60%	0
P20-13	S20-13	S20-12	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	20	1.37%	11.1
P20-14	S20-14	S20-13	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	68	2.12%	20.2
				550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	14		
P20-15	S20-15	S20-14	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	21	1.63%	5.1
P20-16	S20-16	S20-12	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	101	0.60%	0
P20-17	S20-17	S20-16	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	16	2.09%	10.7
P20-18	S20-18	S20-17	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	68	1.85%	14.5
				550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	14		
P20-19	S20-19	S20-18	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	21	1.67%	5.1
P20-20	S20-20	S20-18	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	72	0.52%	11.4
P20-21	S20-21	S20-16	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	151	0.60%	0
P20-22	S20-22	S20-21	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	16	0.63%	10.7
P20-23	S20-23	S20-22	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	68	0.53%	27.6
				550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	14		
P20-24	S20-24	S20-23	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	21	0.54%	14.9
				550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	71		
P20-25	S20-25	S20-23	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	6	0.52%	0
P20-28	S20-28	S20-32	30	550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	30	0.20%	0
P20-29	S20-29	S20-28	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	10	6.10%	4
P20-30	S20-30	S20-29	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	81	1.04%	16.3
P20-32	S20-32	S20-34	30	550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	69	0.20%	0
P20-33	S20-33	S20-32	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	11		

PIPE NO.	LOCATION		SIZE	PAY ITEM NO.	PAY ITEM DESCRIPTION	LENGTH (FT)	SLOPE (%)	TRENCH BACKFILL (CU YD)
	FROM STR.	TO STR.						
P21-13	S21-13	S21-12	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	14	1.00%	5.1
P21-14	S21-14	S21-13	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	68	1.10%	16.1
P21-16	S21-16	S21-17	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	5	2.00%	0
P21-17	S21-17	S21-12	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	56	0.50%	0
P21-18	S21-18	S21-17	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	14	2.00%	4.8
P21-19	S21-19	S21-20	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	130	1.00%	0
P21-20	S21-20	S21-32	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	200	2.00%	0
P21-21	S21-21	S21-20	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	14	5.79%	4.4
P21-22	S21-22	S21-23	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	117	1.00%	4.8
P21-23	S21-23	S21-25	18	Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	139	1.00%	25.8
P21-24	S21-24	S21-23	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	19	5.00%	5.3
P21-25	S21-25	S21-27	18	Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	112	1.00%	0
P21-26	S21-26	S21-25	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	21	2.45%	4.6
P21-27	S21-27	S21-29	18	Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	71	1.00%	30.7
P21-28	S21-28	S21-27	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	20	2.08%	4.2
P21-29	S21-29	S21-30	18	Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	18	1.50%	23.9
P21-30	S21-30	S21-31	18	Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	78	1.50%	80
P21-31	S21-31	S21-32	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	19	1.50%	13.7
P21-35	S21-35	S21-19	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	149	1.00%	42.7
P21-38	S21-38	S21-24	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	31	4.84%	4.1
P21-39	S21-39	S21-26	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	29	1.07%	4.3
P21-40	S21-40	S21-28	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	41	2.31%	6.1
P22-01	S22-01	E511-34	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	25	1.51%	0
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	20		
P22-02	S22-03	S22-02	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	18	0.64%	0
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	21		
P24-02	S24-02	S24-01	12	542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	55	0.50%	4.1
P25-01	S25-01	S18-33	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	102	1.50%	35.5
P25-02	S25-02	S25-01	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	7	0.50%	1
P25-03	S25-03	S25-02	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	45	0.50%	7.8
P25-04	S25-04	S25-01	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	90	1.00%	1.3
P25-05	S25-05	S25-04	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	41	0.50%	3.3
P25-06	S25-06	S25-05	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	21	1.00%	6.8
P25-07	S25-07	S25-06	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	1.00%	0.8
P25-08	S25-08	S25-27	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	67	0.83%	0
P25-09	S25-09	S25-08	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	80	0.75%	0
P25-10	S25-10	S25-09	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	7	2.00%	1
P25-11	S25-11	S25-10	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	32	1.50%	5.6
P25-12	S25-12	S25-09	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	158	0.75%	84.3
P25-13	S25-13	S25-12	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	36	1.50%	6.3
P25-14	S25-14	S25-12	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	42	0.75%	2.7
P25-15	S25-15	S25-14	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	35	1.50%	6.1
P25-16	S25-16	S25-14	24	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	78	0.75%	2.3
P25-17	S25-17	S25-16	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	39	1.00%	6.8
P25-18	S25-18	S25-16	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	59	0.75%	22.6
P25-19	S25-19	S25-18	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	44	1.00%	7.7
P25-20	S25-20	S25-18	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	72	0.75%	27.6
P25-21	S25-21	S25-20	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	53	1.00%	9.2
P25-22	S25-22	S25-20	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	11	0.75%	7.1
P25-23	S25-23	S25-22	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	70	0.75%	53.5
P25-24	S25-24	S25-23	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	57	0.61%	7.6
P25-25	S25-25	S25-23	24	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	94	0.75%	36.1
P25-26	S25-26	S25-25	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	61	0.50%	10.6

25756

6401.3

PIPE UNDERDRAIN SCHEDULE

STR. NO.	PAY ITEM NO.	PAY ITEM DESCRIPTION	LENGTH (FT)	INVERT ELEV.			
				NORTH	EAST	SOUTH	WEST
S8-15	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	100			769.42	
S8-17	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	200	769.58		769.58	
S11-20	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	200	857.40		857.40	
S11-22	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	200	857.40		857.40	
S14-19	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	200	826.17		826.17	
S14-21	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	200	826.17		826.17	
S16-02	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	100			819.53	
S16-41	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	200	822.00		822.00	
S16-53	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	100			819.52	
S17-09	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	200	821.75		821.75	
S17-13	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	200	821.99		821.99	
S17-34	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	200	821.06		821.06	
S17-37	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	200	821.06		821.06	
S18-34	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	200	819.84		819.84	
S18-35	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	200	819.85		819.85	
S19-26	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	126	816.94		816.94	
S19-30	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	200	816.94		816.94	
TOTALS:			3026				

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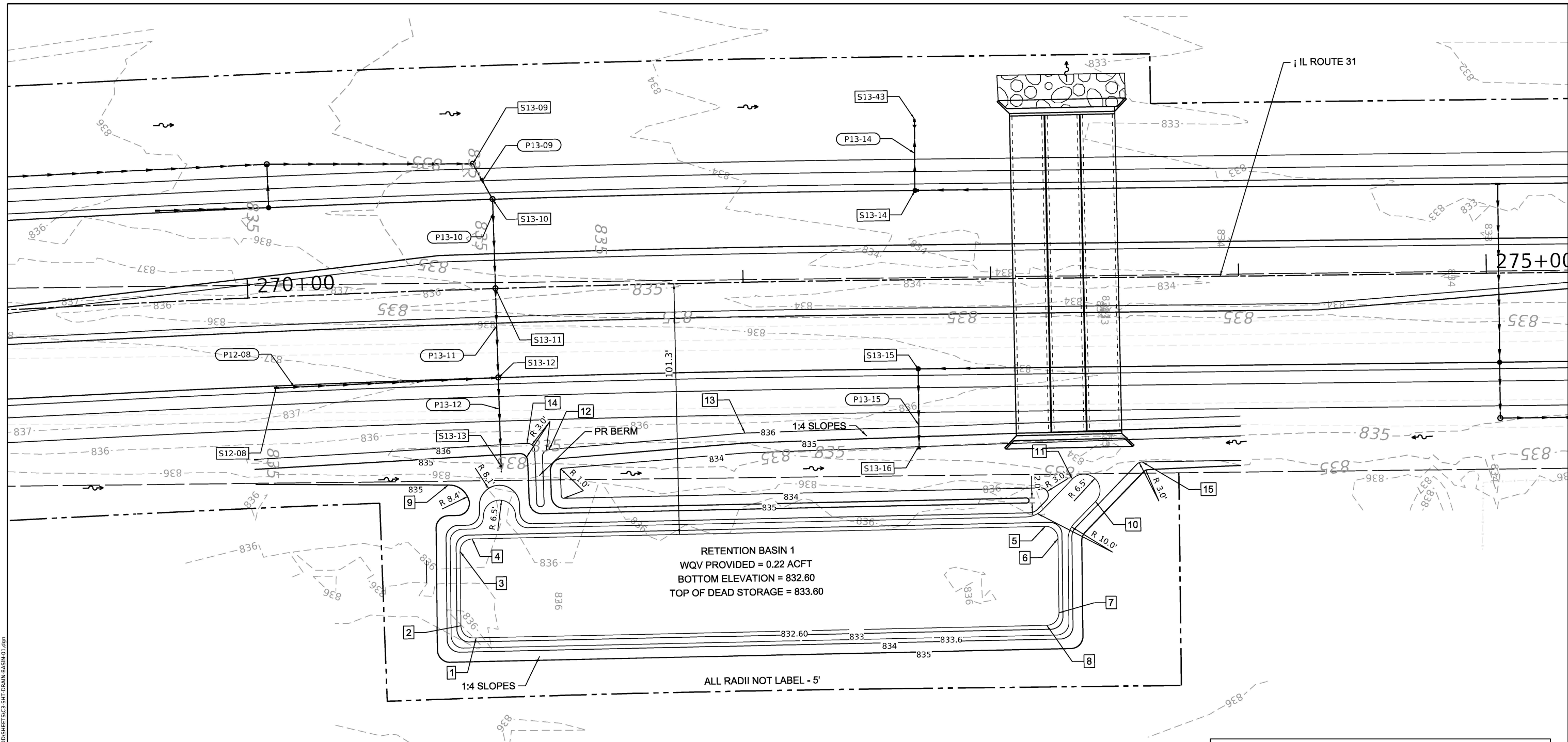
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PLOT DATE = 1/30/2026	CHECKED - TEH	REVISED -
	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCHEDULES
PIPE SCHEDULE

SCALE: NTS SHEET 8 OF 8 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	280
CONTRACT NO.			80C85	
ILLINOIS FED. AID PROJECT				

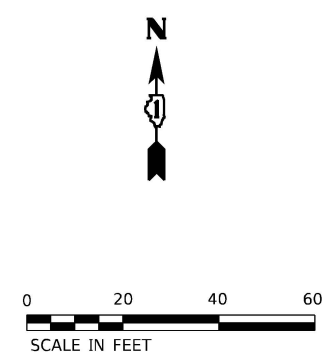


RETENTION BASIN 1
 WQV PROVIDED = 0.22 ACFT
 BOTTOM ELEVATION = 832.60
 TOP OF DEAD STORAGE = 833.60

ALL RADII NOT LABEL - 5'

RETENTION BASIN 1			
POINT	STATION	OFFSET	ELEVATION
1	270+88	140.77 RT	832.60
2	270+81	135.65' RT	832.60
3	270+82	105.66' RT	832.60
4	270+87	100.77' RT	832.60
5	273+21	100.20' RT	832.60
6	273+26	105.20' RT	832.60
7	273+26	135.20' RT	832.60
8	273+21	140.20' RT	832.60
9	270+78	78.69' RT	835.00
10	273+41	90.39' RT	833.60
11	273+32	81.25' RT	833.60
12	271+20	65.62' RT	836.00
13	272+00	60.93' RT	836.00
14	271+11	62.86' RT	836.00
15	273+60	74.65' RT	834.00

LEGEND			
	CENTERLINE		DRAIN SUMMIT
	EXISTING RIGHT OF WAY		FLOW DIRECTION
	PROPOSED RIGHT OF WAY		SWALE
	PROPOSED TEMPORARY EASEMENT		DITCH
	WETLANDS		OUTLET
	PROPOSED BOX CULVERT		SHEET FLOW
	PROPOSED STORM SEWER		OVERFLOW
	FLOODPLAIN BOUNDARY		CULVERT END SECTION
			CATCH BASIN
			INLET
			MANHOLE
			DITCH CHECK



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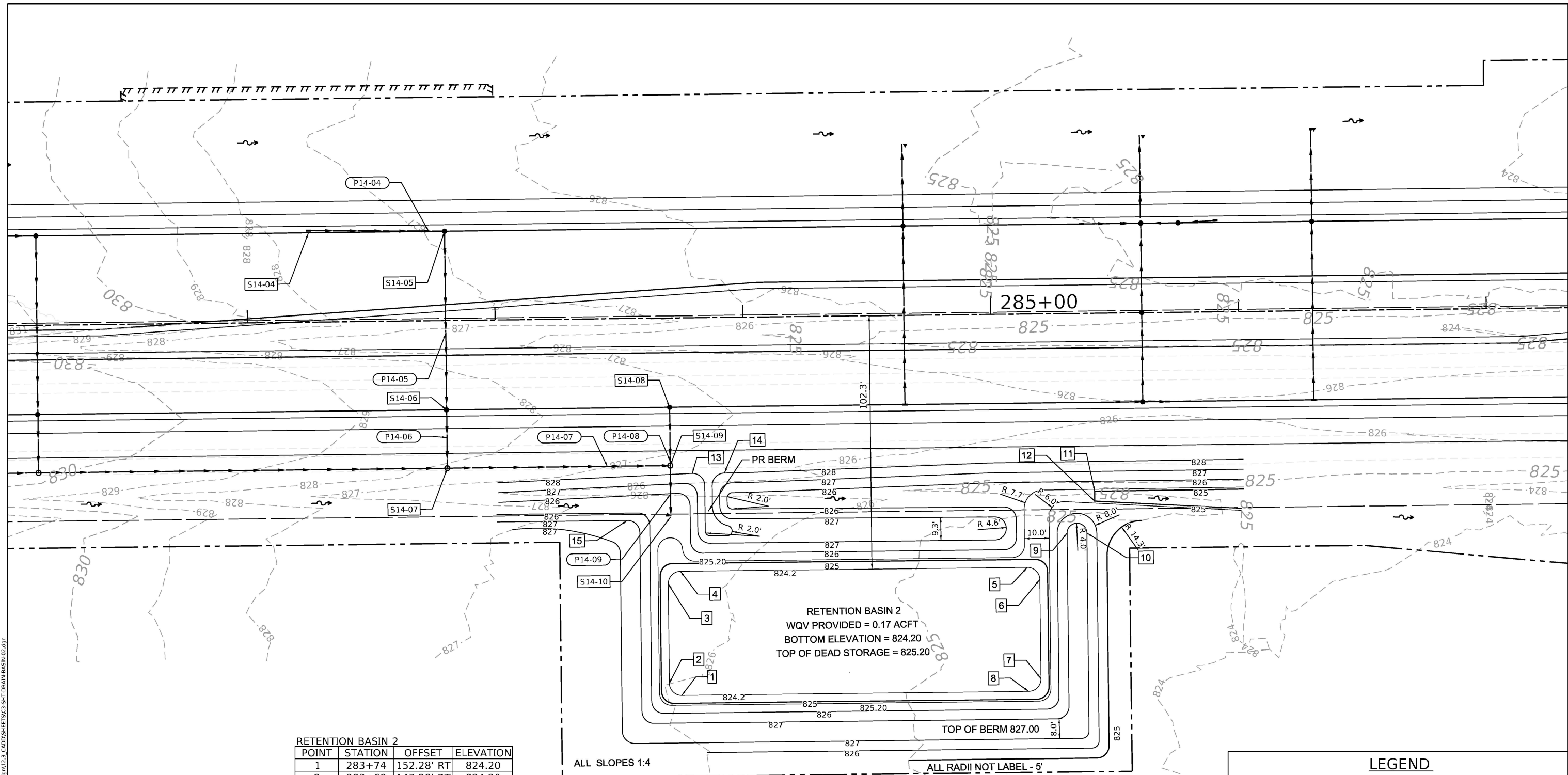
HRGreen.com
 Illinois Professional Design Firm
 #164-001922

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

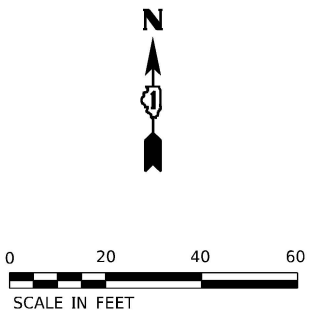
WATER QUALITY RETENTION BASIN 1
ILLINOIS ROUTE 31
 SCALE: 1"=20' SHEET 1 OF 3 SHEETS STA. TO STA.

F.A.P. RTE. 336A	SECTION 2025-2127-R,C,TS,SW	COUNTY McHENRY	TOTAL SHEETS 553	SHEET NO. 281
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80C85	



RETENTION BASIN 2

POINT	STATION	OFFSET	ELEVATION
1	283+74	152.28' RT	824.20
2	283+69	147.28' RT	824.20
3	283+69	107.28' RT	824.20
4	283+74	102.28' RT	824.20
5	285+14	102.28' RT	824.20
6	285+19	107.28' RT	824.20
7	285+19	147.28' RT	824.20
8	285+14	152.28' RT	824.20
9	285+30	88.71' RT	827.00
10	285+38	88.71' RT	827.00
11	285+41	71.86' RT	825.00
12	285+41	75.86' RT	825.00
13	283+79	62.80' RT	828.00
14	283+92	62.80' RT	828.00
15	283+52	81.50' RT	827.00



LEGEND

	CENTERLINE		DRAIN SUMMIT
	EXISTING RIGHT OF WAY		FLOW DIRECTION
	PROPOSED RIGHT OF WAY		SWALE
	PROPOSED TEMPORARY EASEMENT		DITCH
	WETLANDS		OUTLET
	PROPOSED BOX CULVERT		SHEET FLOW
	PROPOSED STORM SEWER		OVERFLOW
	FLOODPLAIN BOUNDARY		CULVERT END SECTION
			CATCH BASIN
			INLET
			MANHOLE
			DITCH CHECK

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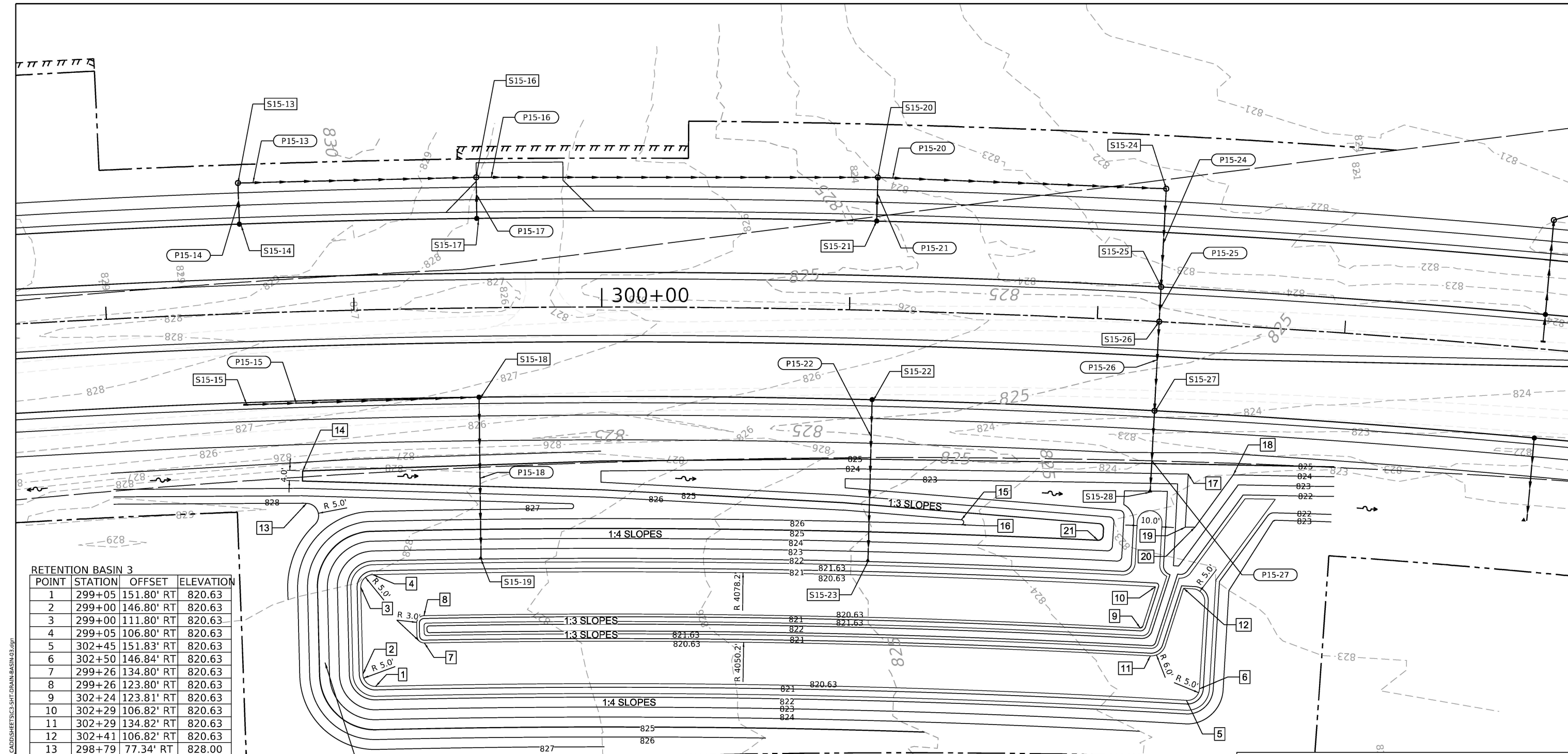
HRGreen.com
 Illinois Professional Design Firm
 # 164-001922

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PLOT DATE = 1/22/2026	CHECKED - TEH	REVISED -
	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER QUALITY RETENTION BASIN 2
ILLINOIS ROUTE 31
 SCALE: 1"=20' SHEET 2 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	282
			CONTRACT NO.	80C85
ILLINOIS FED. AID PROJECT				



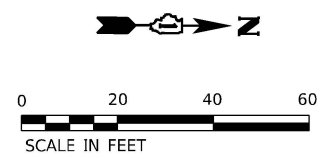
RETENTION BASIN 3

POINT	STATION	OFFSET	ELEVATION
1	299+05	151.80' RT	820.63
2	299+00	146.80' RT	820.63
3	299+00	111.80' RT	820.63
4	299+05	106.80' RT	820.63
5	302+45	151.83' RT	820.63
6	302+50	146.84' RT	820.63
7	299+26	134.80' RT	820.63
8	299+26	123.80' RT	820.63
9	302+24	123.81' RT	820.63
10	302+29	106.82' RT	820.63
11	302+29	134.82' RT	820.63
12	302+41	106.82' RT	820.63
13	298+79	77.34' RT	828.00
14	298+77	64.26' RT	825.00
15	301+48	83.33' RT	826.00
16	301+48	85.33' RT	826.00
17	302+40	60.78' RT	824.00
18	302+59	60.02' RT	824.00
19	302+40	82.19' RT	824.00
20	302+44	81.97' RT	824.00
21	302+05	89.33' RT	825.00

RETENTION BASIN 3
 WQV PROVIDED = 0.29 ACFT
 BOTTOM ELEVATION = 820.63
 TOP OF DEAD STORAGE = 821.63

LEGEND

	CENTERLINE		DRAIN SUMMIT
	EXISTING RIGHT OF WAY		FLOW DIRECTION
	PROPOSED RIGHT OF WAY		SWALE
	PROPOSED TEMPORARY EASEMENT		DITCH
	WETLANDS		OUTLET
	PROPOSED BOX CULVERT		SHEET FLOW
	PROPOSED STORM SEWER		OVERFLOW
	FLOODPLAIN BOUNDARY		CULVERT END SECTION
			CATCH BASIN
			INLET
			MANHOLE
			DITCH CHECK



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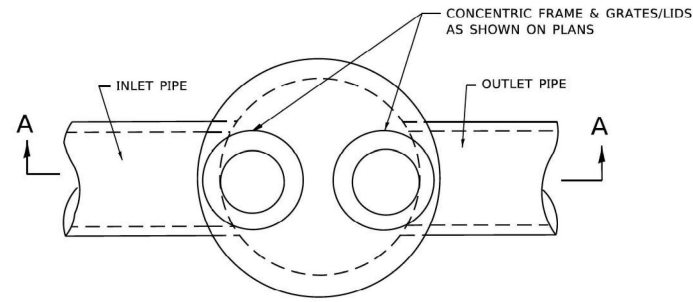
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	DATE - 04/30/2024	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

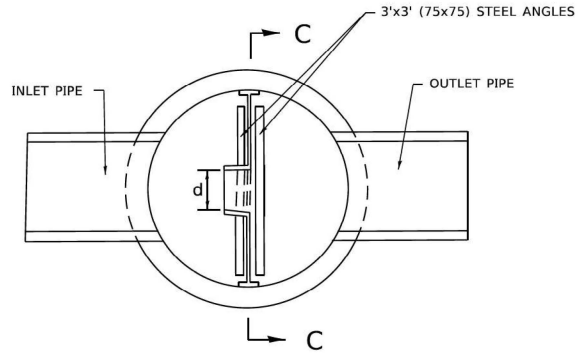
**WATER QUALITY RETENTION BASIN 3
 ILLINOIS ROUTE 31**

SCALE: 1"=20' SHEET 3 OF 3 SHEETS STA. TO STA.

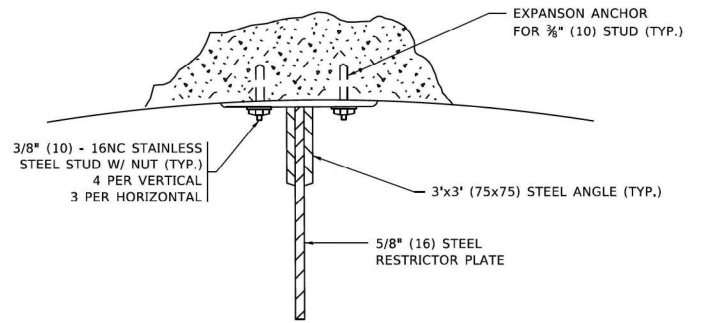
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	283
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	



PLAN



SECTION B-B



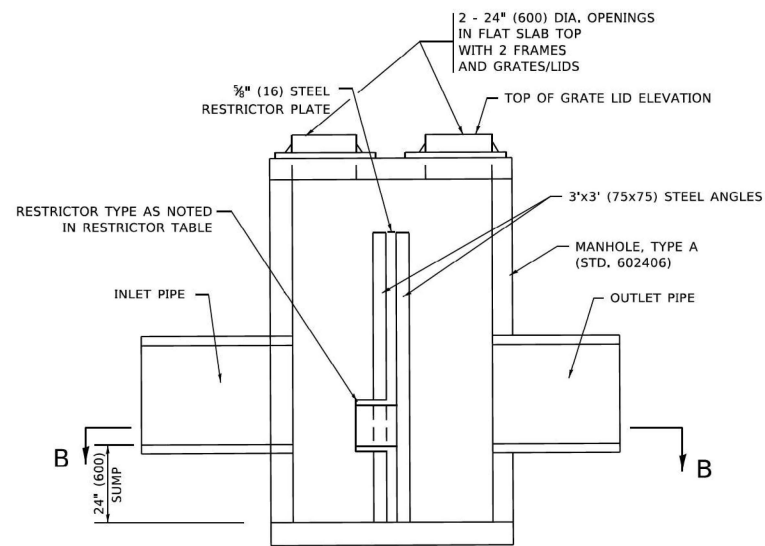
ANGLE FASTENER DETAIL

NOTES:

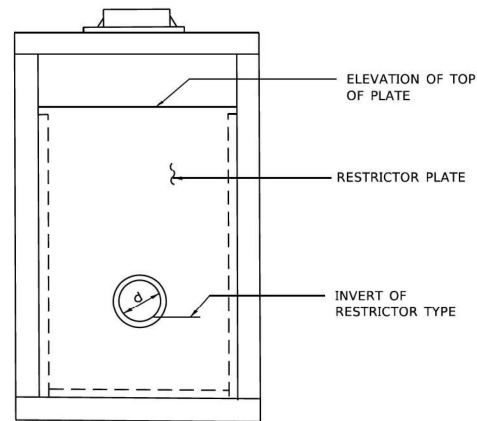
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.

BASIS OF PAYMENT:

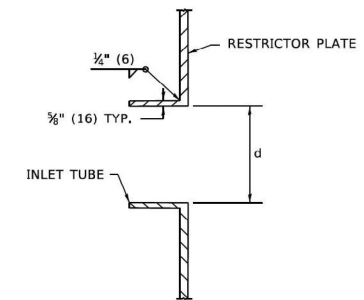
1. TO BE PAID FOR AS "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH
2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.



SECTION A-A

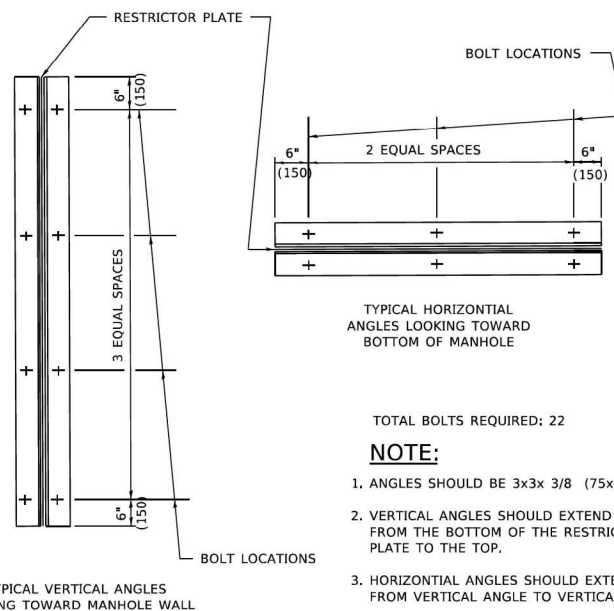


SECTION C-C



INLET TUBE DETAIL

STR. NO.	STATION AND OFFSET	MANHOLE DIAMETER (FT)	FRAME AND GRATE	RESTRICTOR TYPE	INSIDE RESTRICTOR TYPE DIAMETER (IN)	INVERT OF RESTRICTOR TYPE	ELEVATION OF TOP OF PLATE OVERFLOW
S17-01	319+67.02 ; -50.6	6	2 - T1F CL	2	8.25	819.08	822.37
S17-04	320+35.76 ; -53.5	8	2 - T1F CL	2	14.75	819.03	822.25
S18-54	339+61.43 ; 71.5	6	2 - T1F CL	2	2.00	822.57	824.00
S19-15	350+03.50 ; -50.1	9	2 - T1F CL	2	14.00	814.54	818.00
S19-33	352+65.00 ; -50.6	9	2 - T1F CL	2	14.25	814.57	818.00
S20-37	370+46.00 ; -62.5	6	2 - T1F CL	2	7.90	826.05	828.93
S20-40	370+95.00 ; -62.2	6	2 - T1F CL	2	5.10	826.05	828.71
S20-46	372+00.00 ; -56.1	8	2 - T1F CL	2	8.75	826.09	829.79



STEEL ANGLE BOLTING DETAILS

TYPICAL HORIZONTAL ANGLES LOOKING TOWARD BOTTOM OF MANHOLE

TOTAL BOLTS REQUIRED: 22

NOTE:

1. ANGLES SHOULD BE 3x3x 3/8 (75x75x75)
2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

RESTRICTOR TYPE					
1	2	3	4	5	6
RE-ENTRANT TUBE	SHARP EDGED	SQUARE EDGED	RE-ENTRANT TUBE	SQUARE EDGED	ROUNDED
LENGTH: 1/2 TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-1/2 DIA.	LENGTH: 2-1/2 DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

MODEL: Default
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USER NAME = demanchelt	DESIGNED - R. SHAH	REVISED - R. SHAH 10-25-94
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 2/2/2022	CHECKED -	REVISED - M. GOMEZ 01-08-01
	DATE - 09-09-94	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MANHOLE WITH
RESTRICTOR PLATE**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BD600-04 (BD-12)		CONTRACT NO.		
ILLINOIS FED. AID PROJECT				

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

USER NAME = mzuzlo	DESIGNED - DMS	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - HRG	REVISED -
PLOT DATE = 1/22/2026	CHECKED - TEH	REVISED -
	DATE - 09/30/2025	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAIN DETAIL RESTRICTOR MH
ILLINOIS ROUTE 31**

F.A. P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	284
		CONTRACT NO. 80C85		
ILLINOIS FED. AID PROJECT				

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

GENERAL NOTES

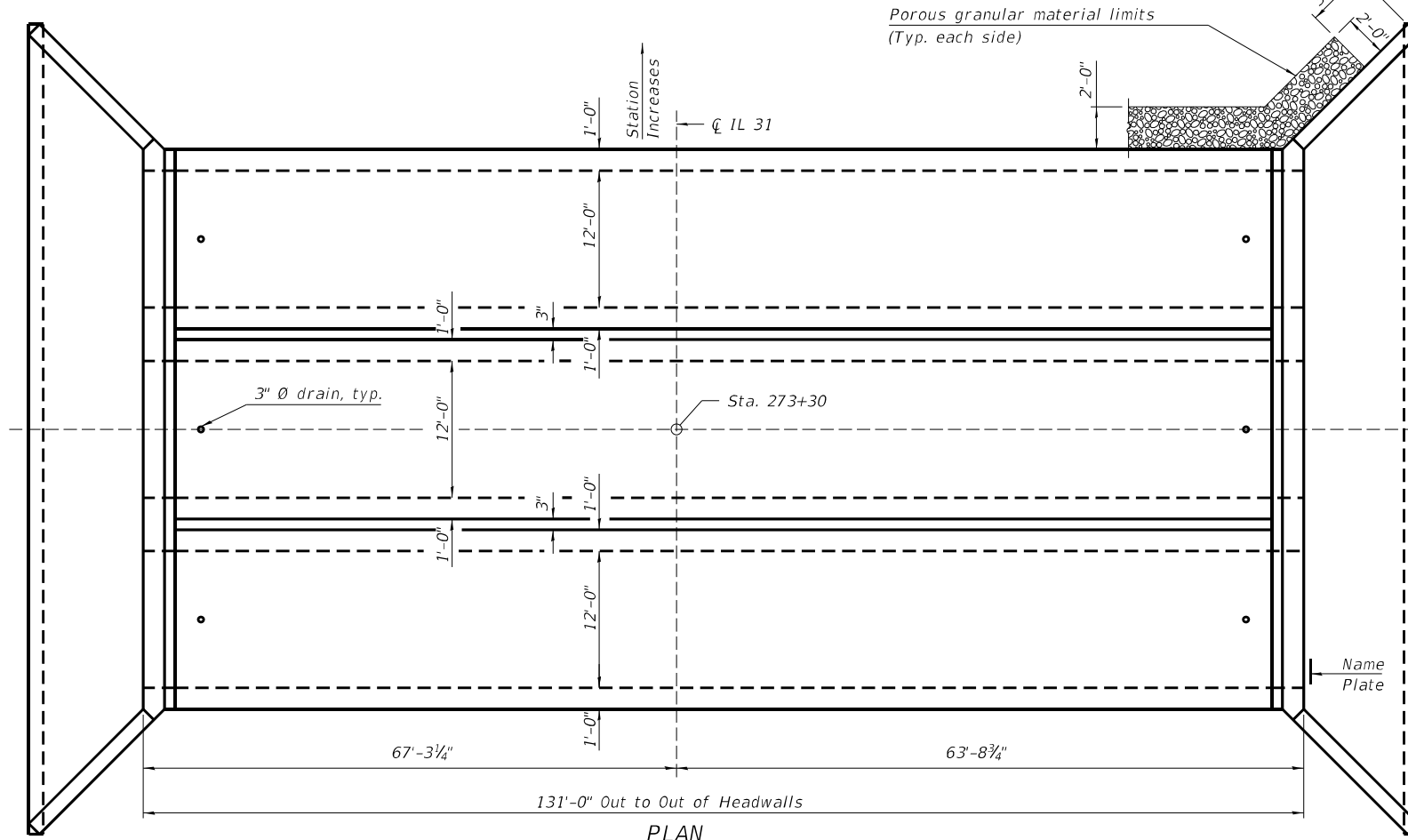
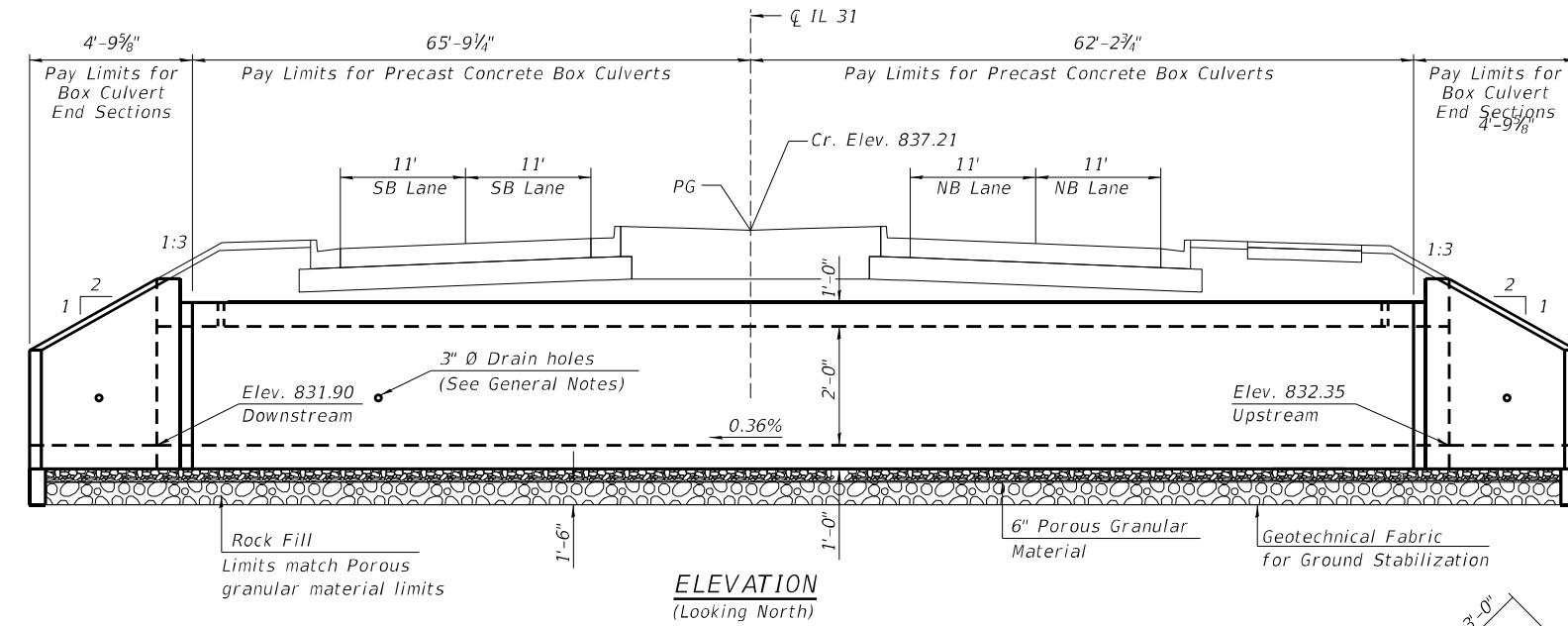
The design fill height for this box is 2.1 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.

Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.

Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

Existing Structure: None



WATERWAY INFORMATION

Drainage Area = 34.7 Acres		Existing Overtopping Elev. = 835.0 at Sta. 275+00		Proposed Overtopping Elev. = 837.2 at Sta. 276+00		
Flood Yr.	Freq.	Q C.F.S.	Opening Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.
			Exist. Prop.	Exist. Prop.	Exist. Prop.	Exist. Prop.
Design	10	46.5	2.2 12.6	833.7	1.4 0.6	835.1 834.3
Base	50	67.9	3.0 27.0	834.1	1.1 1.0	835.2 835.1
Overtop Existing	100	77.4	3.0 30.6	834.2	1.0 1.2	835.2 835.4
Overtop Proposed	10<	16.6	2.2 n/a	833.7	1.3 n/a	835.0 n/a
Max. Calc.	n/a	n/a	n/a n/a	n/a n/a	n/a n/a	n/a n/a

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications
Customary U.S. Units, 9th Edition

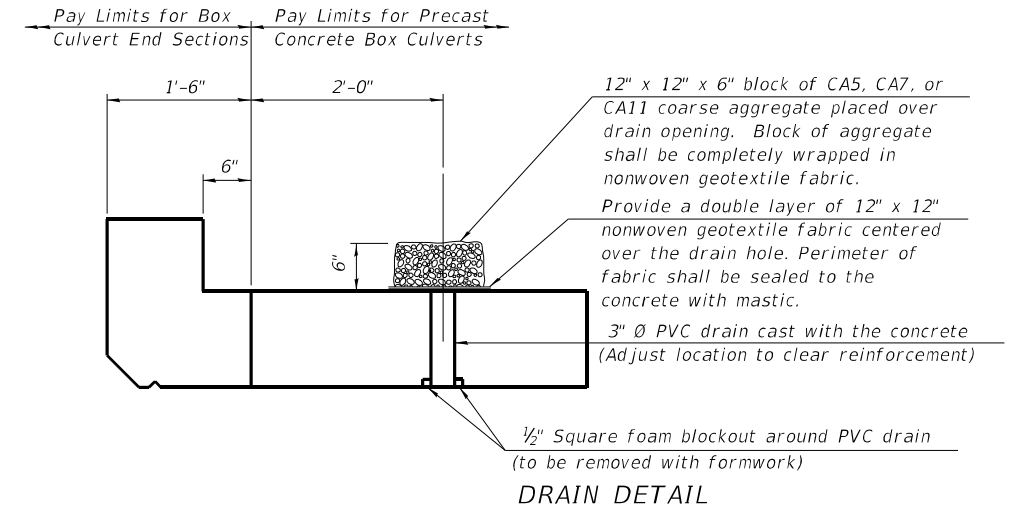
LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

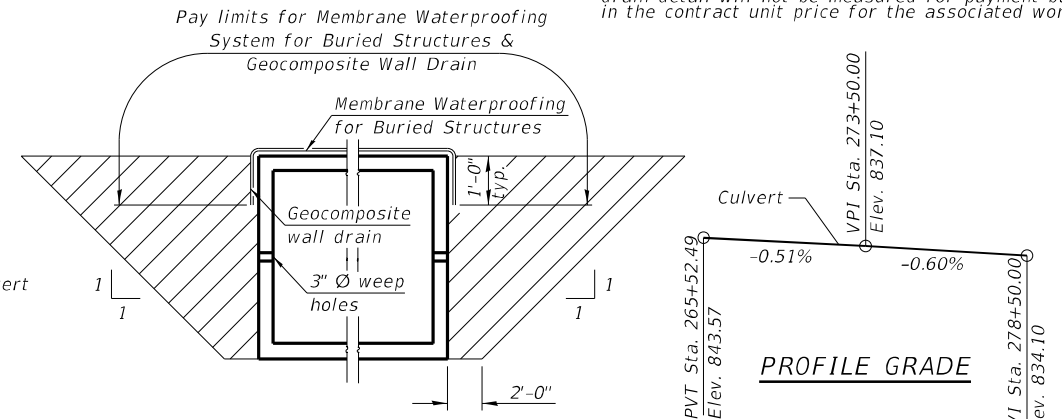
DESIGN STRESSES

PRECAST UNITS

f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Reinforcement)



(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 8	Each	2
Precast Concrete Box Culverts, 12'x2'	Foot	128
Porous Granular Embankment	Cu. Yd.	351.2
Waterproofing Membrane System for Buried Structures	Sq. Yd.	638
Geocomposite Wall Drain	Sq. Yd.	638
Rock Fill	Cu. Yd.	368
Geotechnical Fabric for Ground Stabilization	Sq. Yd.	735

Note:
See Multi-Cell Precast Concrete Box Apron End Section Details sheets for end section details.

STATION 273+30.00
BUILT BY
STATE OF ILLINOIS
F.A.P. RT. 336A SEC. 2019-196-W&R
LOADING HL-93
STR. NO. 056-0114

NAME PLATE

See Std. 515001

GENERAL PLAN AND ELEVATION

IL RTE. 31 OVER DRAINAGEWAY

F.A.P. RTE. 336A

McHENRY COUNTY

STATION 273+30.00

S.N. 056-0114

HRG PROJECT NO.: #PROJECT08
HRG PROJ. CONTACT: #HRG08
FILE NAME: C3-SIT-DRAIN-CLUB-001-SN-056-0114.dgn
PLOT DRIVER: #PLOT.DRV*
PEN TABLE: #PEN.TABLE*



HRGreen.com
Illinois Professional Design Firm
#184-001322

USER NAME = mzuzko	DESIGNED -	REVISD -
	CHECKED -	REVISD -
PLOT SCALE =	DRAWN -	REVISD -
PLOT DATE = 1/14/2026	CHECKED -	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
S.N. 056-0114

SHEET NO. 1 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	285

CONTRACT NO. 80C85

ILLINOIS FED. AID PROJECT

GENERAL NOTES

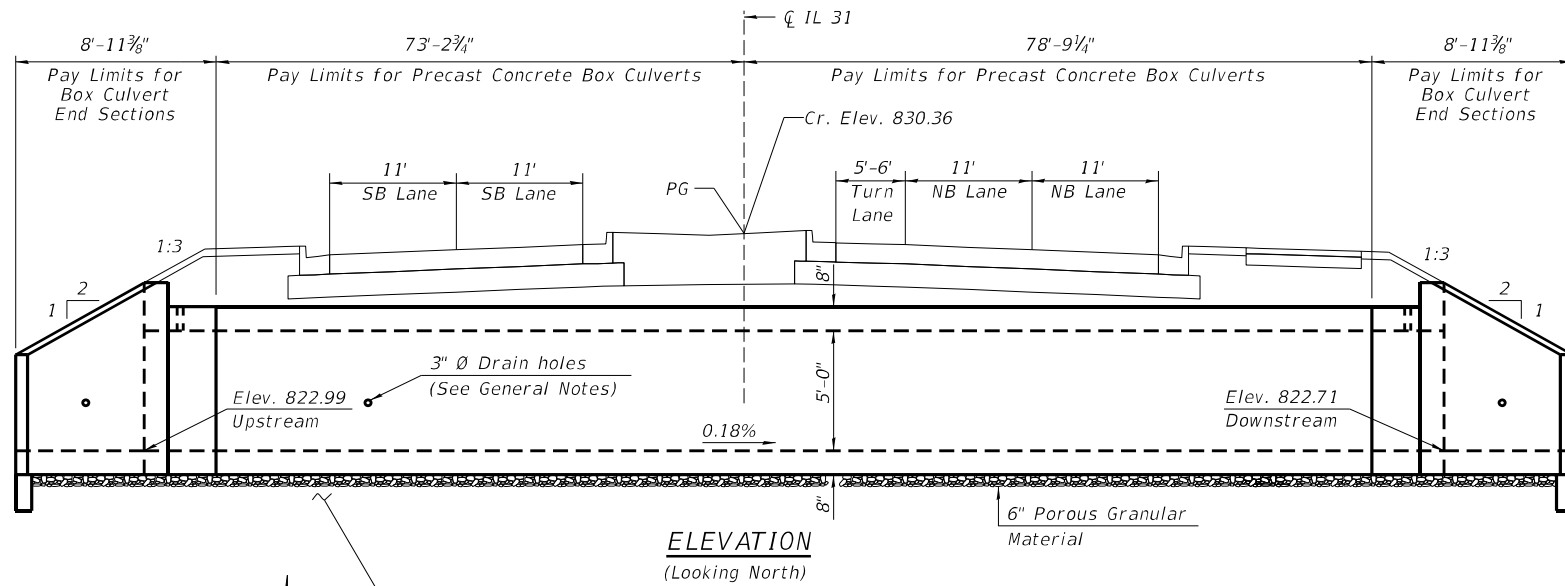
The design fill height for this box is 2.0 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.

Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.

Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

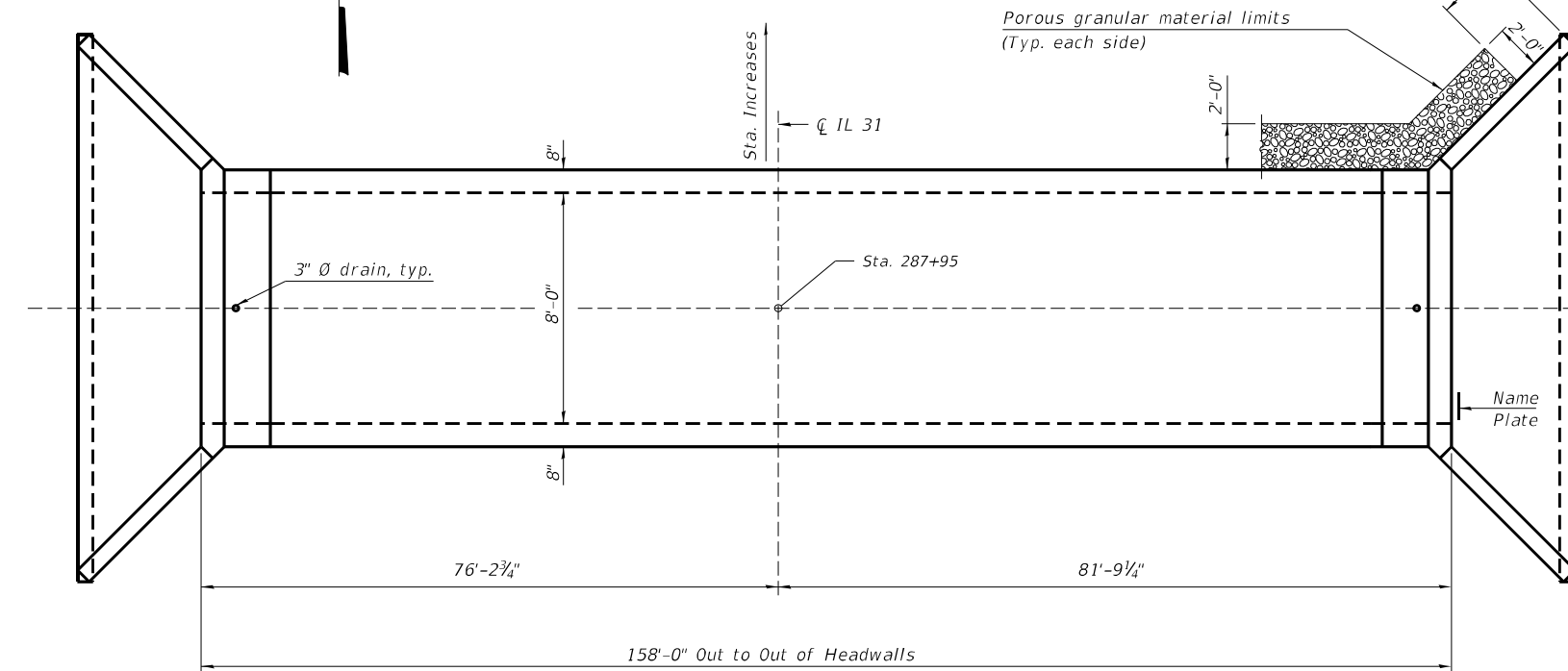
Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

Existing Structure: None



ELEVATION
(Looking North)

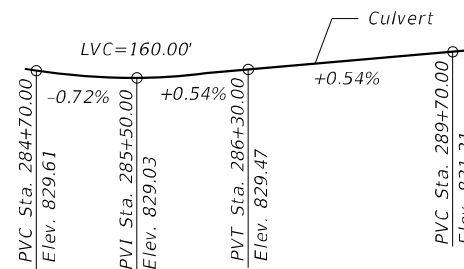
CULVERT IS WITHIN CONTROLLED STIFFNESS COLUMN GROUND IMPROVEMENT AREA. REFER TO PLAN & PROFILE AND DETAIL SHEET.



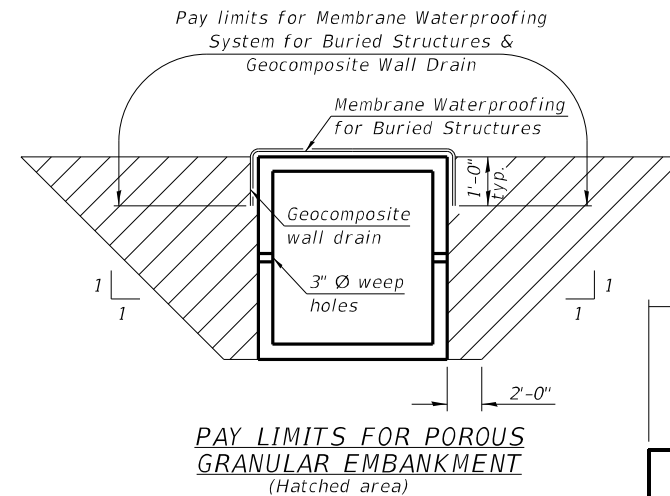
PLAN

WATERWAY INFORMATION

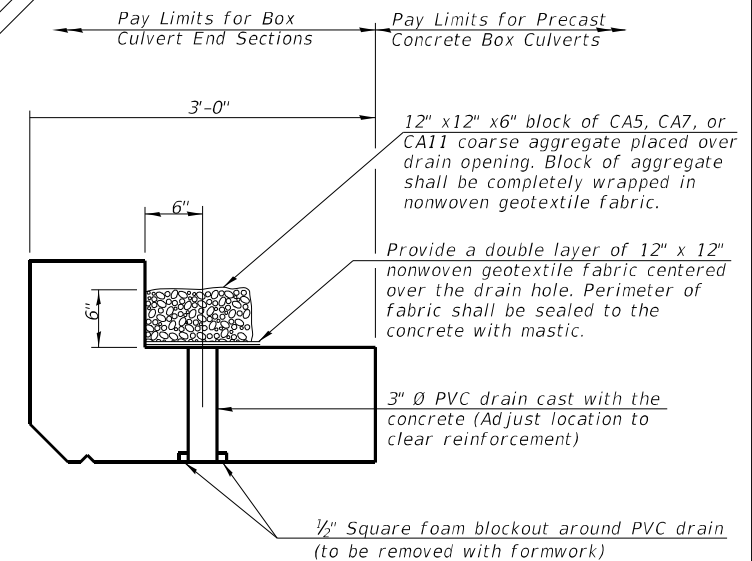
Drainage Area = 134 Acres		Existing Overtopping Elev. = 825.76 at Sta. 285+78 Proposed Overtopping Elev. = 829.28 at Sta. 285+61									
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.			
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.		
Design	10	54.2	6.14	12.2	824.51	1.97	0.72	826.48	825.23		
Base	50	108.8	6.14	13.3	824.65	2.03	1.75	826.68	826.40		
Overtop Existing	100	150.4	6.14	14.0	824.74	2.03	2.41	826.77	827.15		
Overtop Proposed	10<	45.1	6.14	n/a	824.46	1.79	n/a	826.25	n/a		
Max. Calc.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a		



PROFILE GRADE



PAY LIMITS FOR POROUS GRANULAR EMBANKMENT
(Hatched area)



DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 9	Each	2
Precast Concrete Box Culverts, 8'x5'	Foot	152
Porous Granular Embankment	Cu. Yd.	128.5
Waterproofing Membrane System for Buried Structures	Sq. Yd.	196
Geocomposite Wall Drain	Sq. Yd.	196

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications
Customary U.S. Units, 9th Edition

LOADING HL-93

Allow 50#/sq.ft. for future wearing surface.

DESIGN STRESSES

PRECAST UNITS

f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Reinforcement)

Note:
See Single Cell Precast Concrete Box Culvert Apron End Section Details sheets for end section details.

STATION 287+95.00
BUILT BY
STATE OF ILLINOIS
F.A.P. RT. 336A SEC. 2019-196-W&R
LOADING HL-93
STR. NO. 056-0322

NAME PLATE
See Std. 515001

GENERAL PLAN AND ELEVATION

IL RTE. 31 OVER DRAINAGEWAY

F.A.P. RTE. 336A

McHENRY COUNTY

STATION 287+95.00

S.N. 056-0322

HRC PROJECT NO.: #PROJECT#08
 HRC PROJ. CONTACT: #HRC#08
 FILE NAME: C:\3-SIT-DRAW-CU\9-10\1-SN-056-0322.dgn
 PLOT DRIVER: #PLOT.DRV#
 PEN TABLE: #PEN.TABLE#



USER NAME = mzuzko
DESIGNED -
CHECKED -
DRAWN -
PLOT DATE = 1/14/2026

DESIGNED -
CHECKED -
DRAWN -
CHECKED -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
S.N. 056-0322

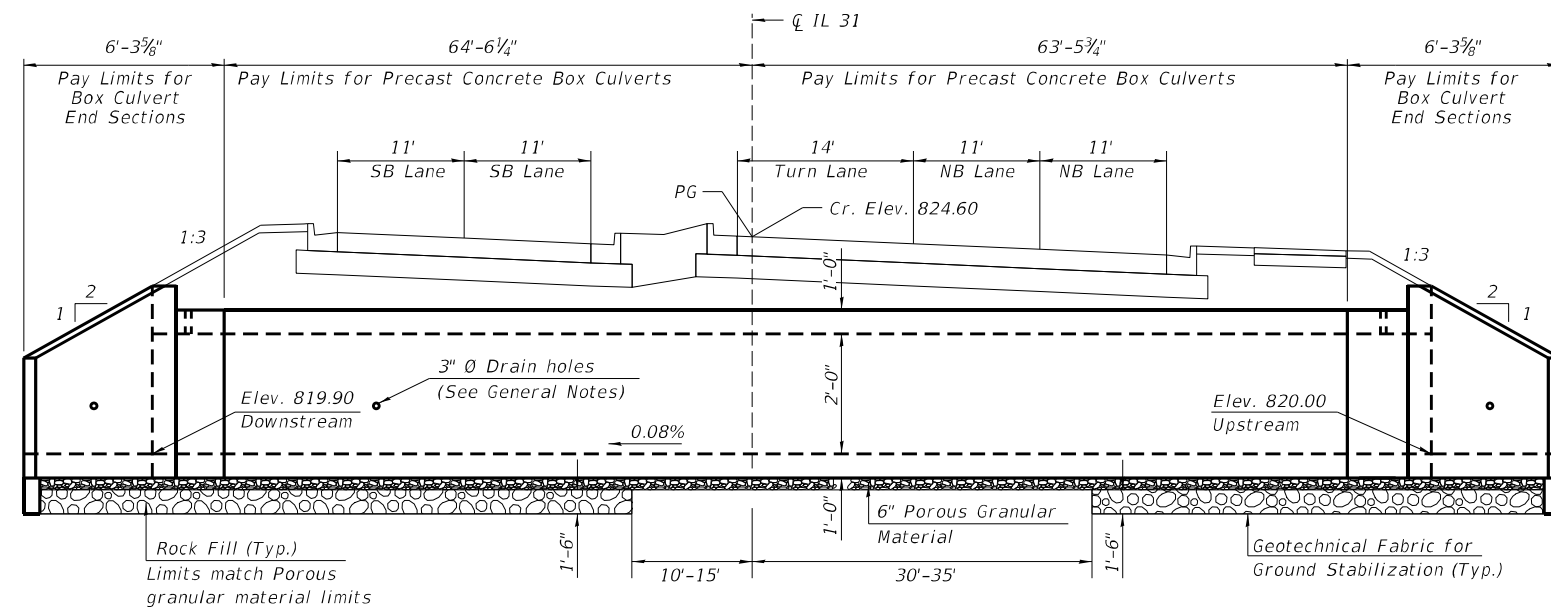
SHEET NO. 2 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	McHENRY	553	286
				CONTRACT NO. 80C85
ILLINOIS FED. AID PROJECT				

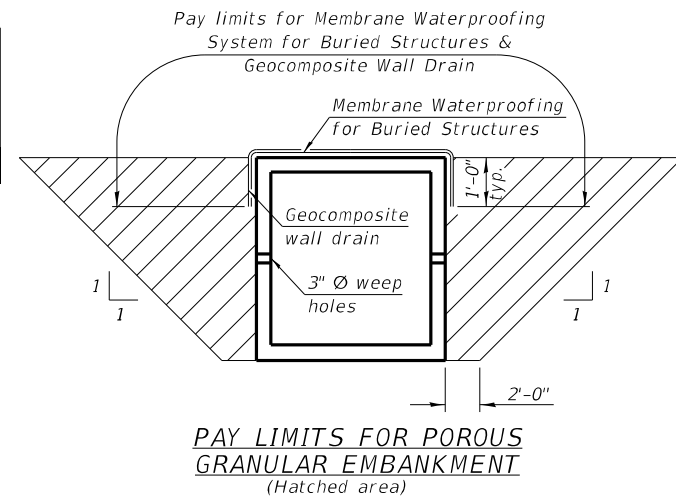
Existing Structure: None

GENERAL NOTES

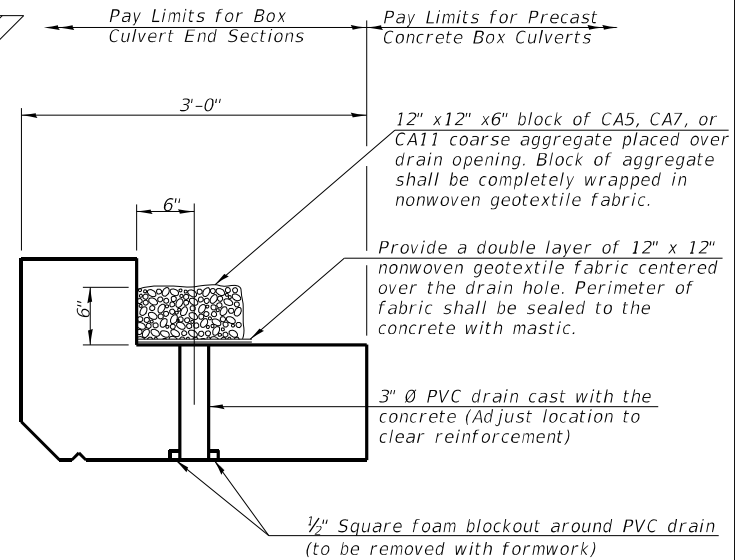
The design fill height for this box is 1.38 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.
 Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.
 Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
 Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.



ELEVATION
(Looking North)



PAY LIMITS FOR POROUS GRANULAR EMBANKMENT
(Hatched area)

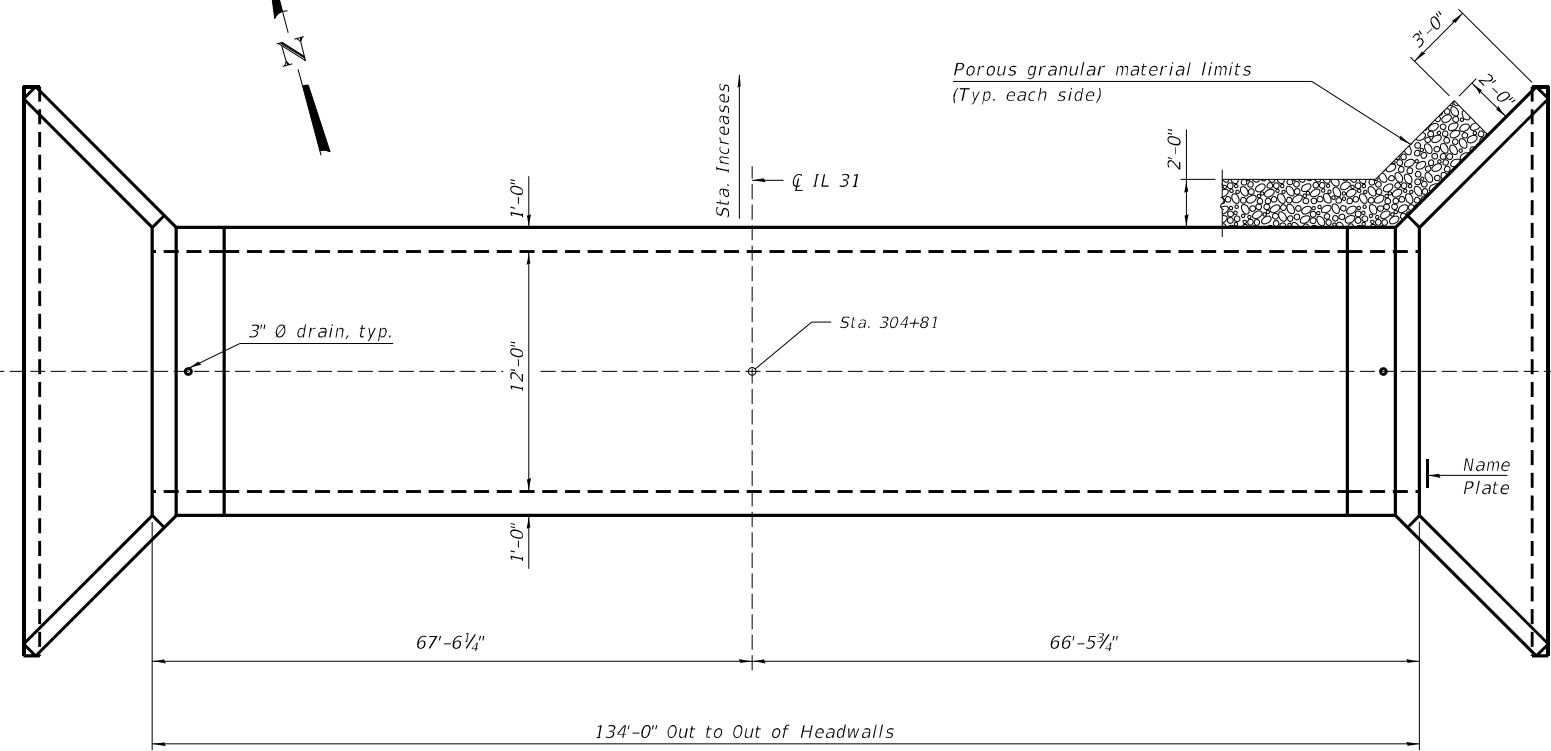


DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

TOTAL BILL OF MATERIAL

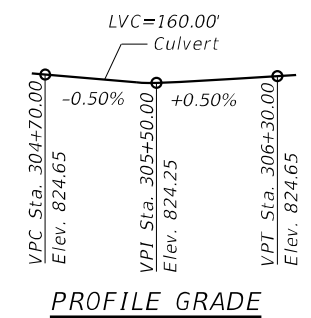
ITEM	UNIT	TOTAL
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 10	Each	2
Precast Concrete Box Culverts, 12'x2'	Foot	128
Porous Granular Embankment	Cu. Yd.	139.5
Waterproofing Membrane System for Buried Structures	Sq. Yd.	235
Geocomposite Wall Drain	Sq. Yd.	235
Rock Fill	Cu. Yd.	103
Geotechnical Fabric for Ground Stabilization	Sq. Yd.	206



WATERWAY INFORMATION

Existing Overtopping Elev. = 824.0 at Sta. 304+75
 Proposed Overtopping Elev. = 824.6 at Sta. 304+75
 Drainage Area = 16.8 Acres

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	45.2	2.5	18.6	821.8	2.3	0.2	824.1	822.0
Base	50	66.0	3.0	23.4	822.2	1.9	0.6	824.1	822.8
Overtop Existing	100	75.3	3.0	24.0	822.4	1.7	1.0	824.1	823.4
Overtop Proposed	10<	22.6	2.5	n/a	821.8	2.2	n/a	824.0	n/a
Max. Calc.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a



PROFILE GRADE

DESIGN SPECIFICATIONS
 2020 AASHTO LRFD Bridge Design Specifications
 Customary U.S. Units, 9th Edition

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

PRECAST UNITS

f'c = 5,000 psi
 fy = 65,000 psi (Welded Wire Reinforcement)

Note:
 See Single Cell Precast Concrete Box Culvert Apron End Section Details sheets for end section details.

STATION 304+81.00
 BUILT BY
 STATE OF ILLINOIS
 F.A.P. RT. 336A SEC. 2019-196-W&R
 LOADING HL-93
 STR. NO. 056-0115

NAME PLATE
 See Std. 515001

GENERAL PLAN AND ELEVATION
 IL RTE. 31 OVER DRAINAGEWAY

F.A.P. RTE. 336A
 McHENRY COUNTY
 STATION 304+81.00
 S.N. 056-0115

HRG PROJECT NO.: #PROJECT#08
 HRG PROJ. CONTACT: #HRG#08
 FILE NAME: C3-SHT-DRAIN-CULV-001-SV-056-0115.dgn
 PLOT DRIVER: #PLOT.DRV#
 PEN TABLE: #PEN.TABLE#



HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = mzuuzko	DESIGNED -	REVISD -
	CHECKED -	REVISD -
PLOT SCALE =	DRAWN -	REVISD -
PLOT DATE = 1/14/2026	CHECKED -	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

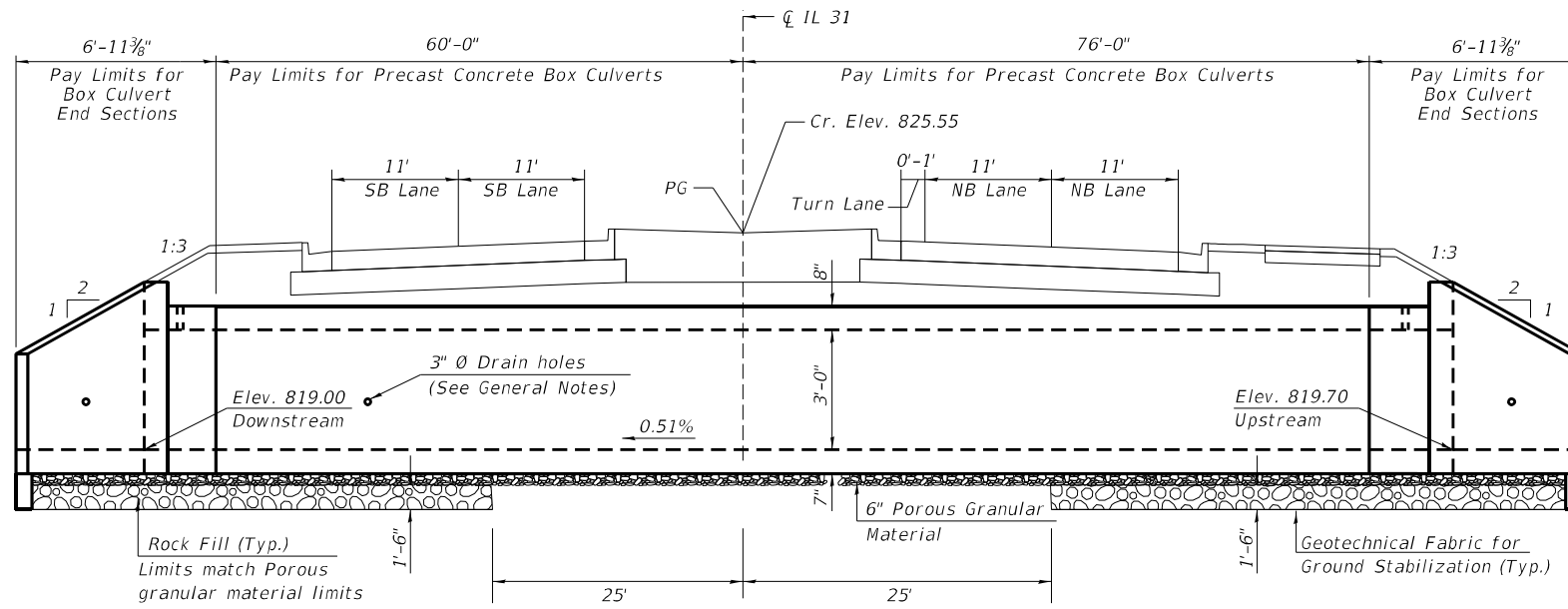
GENERAL PLAN AND ELEVATION
S.N. 056-0115

F.A.P. RTE. 336A	SECTION 2025-2127-R,C,TS,SW	COUNTY MCHENRY	TOTAL SHEETS 553	SHEET NO. 287
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

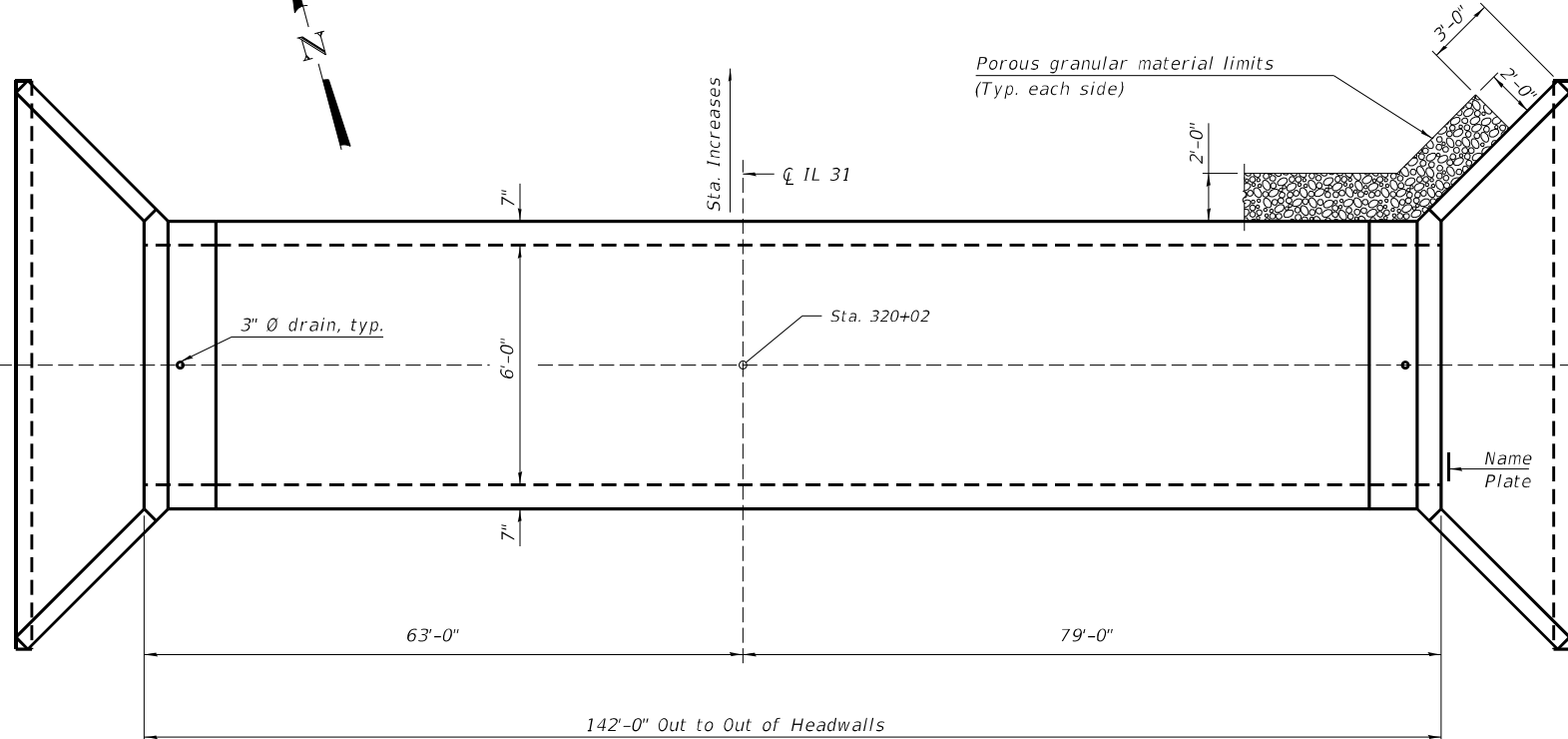
Existing Structure: None

GENERAL NOTES

The design fill height for this box is 1.86 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.
 Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.
 Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
 Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.



ELEVATION
(Looking North)

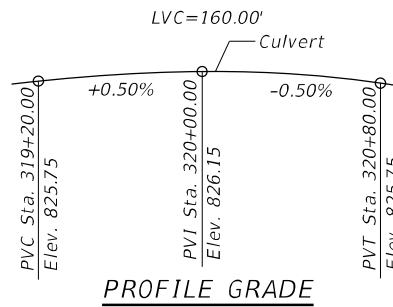


PLAN

WATERWAY INFORMATION

Existing Overtopping Elev. = 823.5 at Sta. 319+95
 Proposed Overtopping Elev. = 826.0 at Sta. 319+95
 Drainage Area = 35.8 Acres

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
Design	10	43.3	1.2	7.2	821.3	2.3	0.8	823.6	822.1
Base	50	63.3	1.8	9.0	821.6	2.0	1.1	823.6	822.7
Overtop Existing	100	72.2	2.0	9.6	821.7	2.0	1.2	823.7	822.9
Overtop Proposed	10<	21.4	1.2	n/a	821.3	2.2	n/a	823.5	n/a
Max. Calc.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a



STATION 320+02.00
 BUILT BY
 STATE OF ILLINOIS
 F.A.P. RT. 336A SEC. 2019-196-W&R
 LOADING HL-93
 STR. NO.

NAME PLATE
See Std. 515001

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications
 Customary U.S. Units, 9th Edition

LOADING HL-93

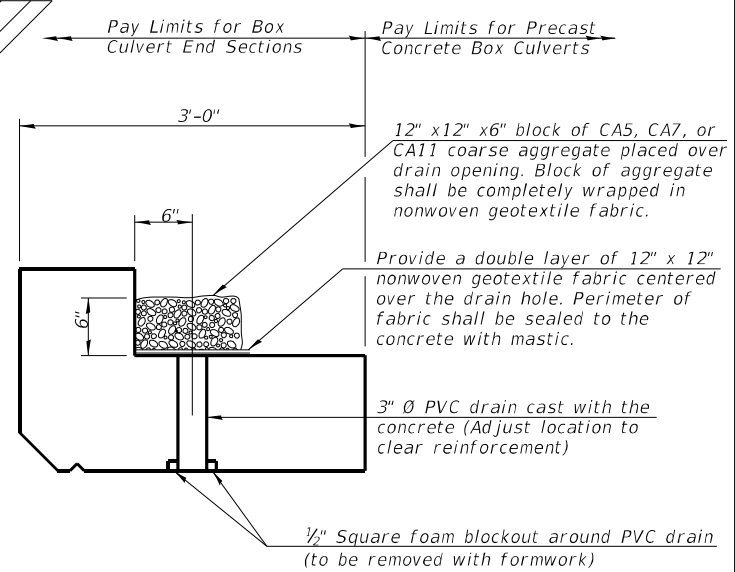
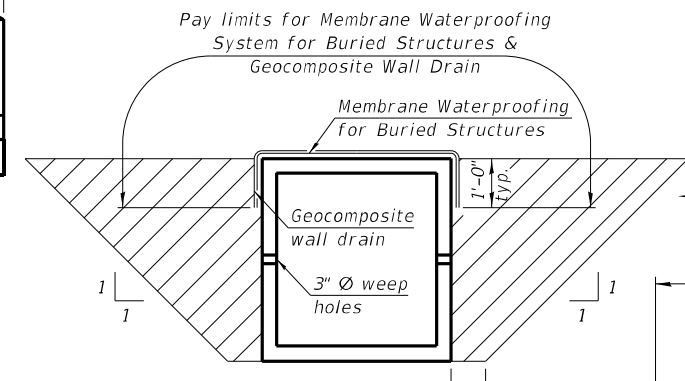
Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

PRECAST UNITS

f'c = 5,000 psi
 fy = 65,000 psi (Welded Wire Reinforcement)

Note:
 See Single Cell Precast Concrete Box Culvert Apron End Section Details sheets for end section details.



TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 11	Each	2
Precast Concrete Box Culverts, 6'x3'	Foot	136
Porous Granular Embankment	Cu. Yd.	93.3
Waterproofing Membrane System for Buried Structures	Sq. Yd.	143
Geocomposite Wall Drain	Sq. Yd.	143
Rock Fill	Cu. Yd.	69
Geotechnical Fabric for Ground Stabilization	Sq. Yd.	137

GENERAL PLAN AND ELEVATION

IL RTE. 31 OVER DRAINAGEWAY
 F.A.P. RTE. 336A
 McHENRY COUNTY
 STATION 320+02.00
 S.N. 056-0116

HRG PROJECT NO.: #PROJECT08
 HRG PROJ. CONTACT: #HRG084
 FILE NAME: C3-SHT-DRAIN-CULVIL-DET-SN-056-0116.dgn
 PLOT DRIVER: #PLOT.DRV*
 PEN TABLE: #PEN.TABLE*



HRGreen.com
 Illinois Professional Design Firm
 #184-001322

USER NAME = mzuzko	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 1/14/2026	DRAWN -	REVISED -
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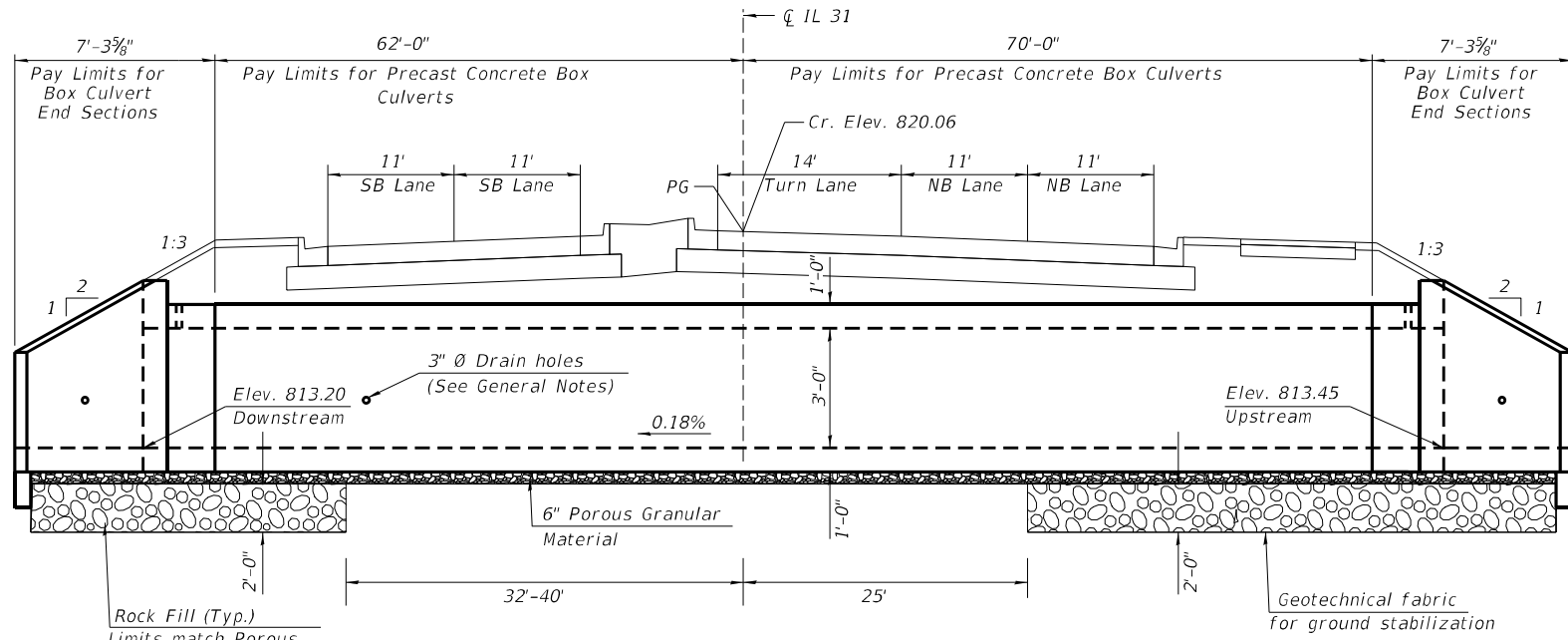
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
S.N. 056-0116

SHEET NO. 4 OF 5 SHEETS

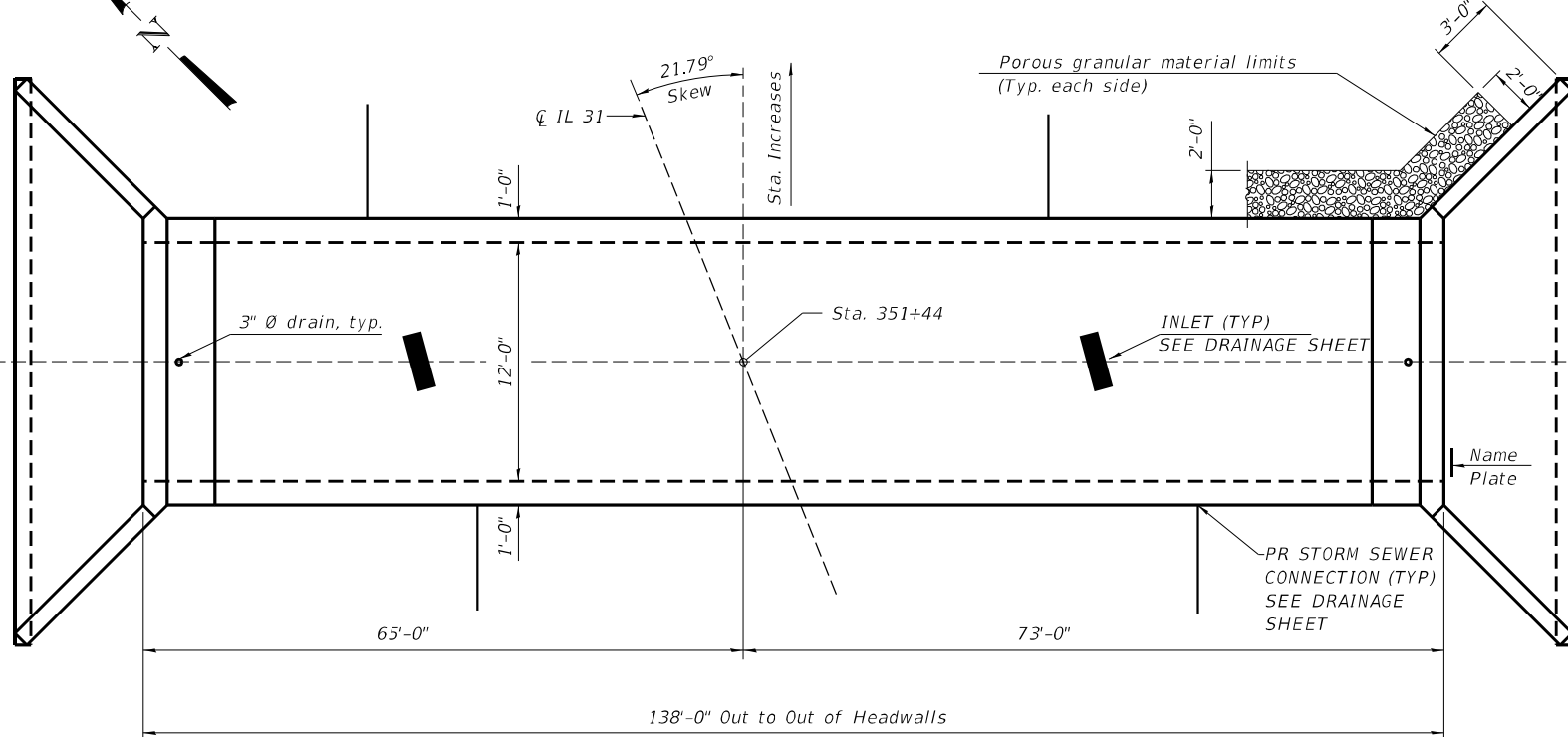
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R.C.T5.SW	McHENRY	553	288
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

Existing Structure: None



ELEVATION

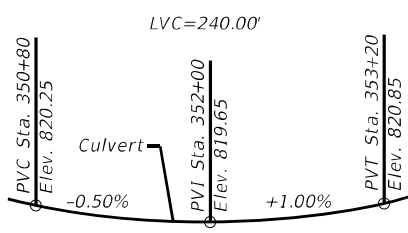
(Looking North)
(Dimensions are shown parallel to ϕ Culvert)



PLAN

WATERWAY INFORMATION

Drainage Area = 36.1 Acres		Existing Overtopping Elev. = 819.6 at Sta. 349+95 Proposed Overtopping Elev. = 820.5 at Sta. 351+50								
Flood	Freq. Yr.	Q C.F.S.	Opening	Nat. H.W.E.	Head - Ft.	Headwater El.	Exist.	Prop.	Exist.	Prop.
Design	10	87.9	1.5	28.2	816.8/815.8	2.8	0.5	819.6	816.3	
Base	50	128.2	1.9	31.8	817.0/816.1	2.6	0.7	819.6	816.8	
Overtop Existing	100	146.3	2.1	34.2	817.1/816.3	2.5	1.0	819.6	817.3	
Overtop Proposed	10<	23.2	1.5	n/a	816.8/815.8	2.8	n/a	819.6	n/a	
Max. Calc.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	



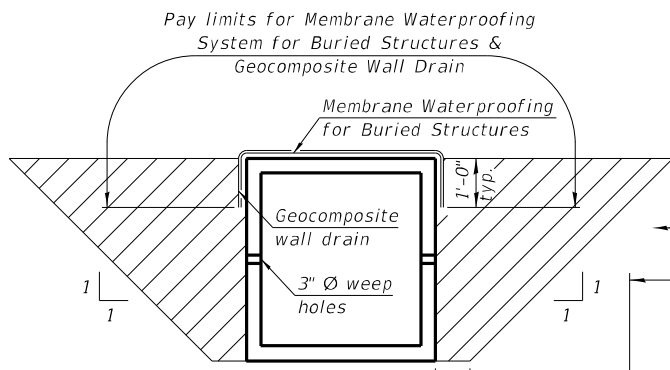
PROFILE GRADE

STATION 351+44.00
BUILT BY
STATE OF ILLINOIS
F.A.P. RT. 336A SEC. 2019-196-W&R
LOADING HL-93
STR. NO. 056-0117

NAME PLATE
See Std. 515001

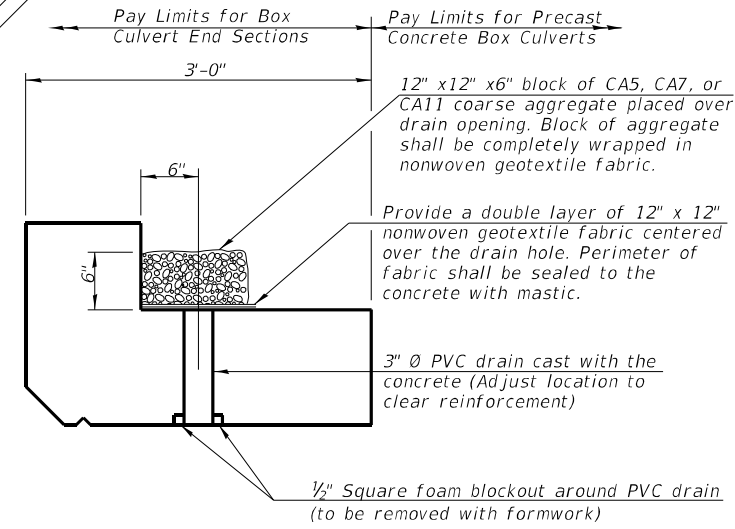
GENERAL NOTES

The design fill height for this box is 1.89 ft. The precast box culvert sections shall conform to the requirements of ASTM C 1577.
Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard Specification.
Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required excavation areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item. The 6-inch thick layer of porous granular material required under the precast concrete box culvert, according to Section 540.06 of the standard specifications, shall also apply to the end sections. Cost of this porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.



PAY LIMITS FOR POROUS GRANULAR EMBANKMENT
(Hatched area)

Rock fill and geotechnical fabric for ground stabilization have the same footprint as porous granular material.



DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications
Customary U.S. Units, 9th Edition

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN STRESSES

PRECAST UNITS

$f'_c = 5,000$ psi
 $f_y = 65,000$ psi (Welded Wire Reinforcement)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 12	Each	2
Precast Concrete Box Culverts, 12'x3'	Foot	132
Porous Granular Embankment	Cu. Yd.	146.6
Waterproofing Membrane System for Buried Structures	Sq. Yd.	242
Geocomposite Wall Drain	Sq. Yd.	242
Rock Fill	Cu. Yd.	120
Geotechnical Fabric for Ground Stabilization	Sq. Yd.	180

**GENERAL PLAN AND ELEVATION
IL RTE. 31 OVER DRAINAGEWAY**

F.A.P. RTE. 336A
MCHENRY COUNTY
STATION 351+44.00
S.N. 056-0117

HRC PROJECT NO.: #PROJECT#08
 HRC PROJ. CONTACT: #HRC#048
 FILE NAME: C3-SIT-DRAIN-CULV2-001-SV-056-0117.dgn
 PLOT DRIVER: #PLOT.DRV#
 PEN TABLE: #PEN.TABLE#



USER NAME = mzu2k6	DESIGNED -	REVISED -
PLOT SCALE =	CHECKED -	REVISED -
PLOT DATE = 1/14/2026	DRAWN -	REVISED -
	CHECKED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**GENERAL PLAN AND ELEVATION
S.N. 056-0117**

SHEET NO. 5 OF 5 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,T5,SW	MCHENRY	553	289
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

Details for Double Cell Box Culvert shown. Details for Triple Cell Box Culvert similar.

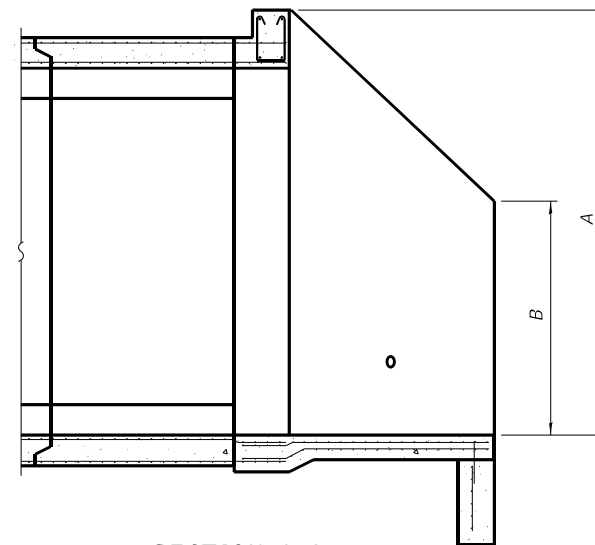
The details contained herein are for constructing the end sections using cast-in-place (CIP) construction. The Contractor may propose to furnish the end sections using precast construction methods and the end sections may consist of multiple precast concrete segments. The Contractor shall be responsible for determining all details associated with the precast option including any strengthening or stiffening provisions necessary for handling the precast segments. Conceptual details followed by shop drawings and design calculations sealed by an Illinois Licensed Structural Engineer shall be submitted to the Engineer for review and approval. Elements of the precast option shall at a minimum result in the same wingwall geometry and not have a thickness less than that detailed herein. The option to construct the end sections using precast construction methods shall be at no additional charge.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2".

The contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the precast concrete box culvert segments immediately adjacent to the box culvert end sections that is being lapped with the end section reinforcement shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

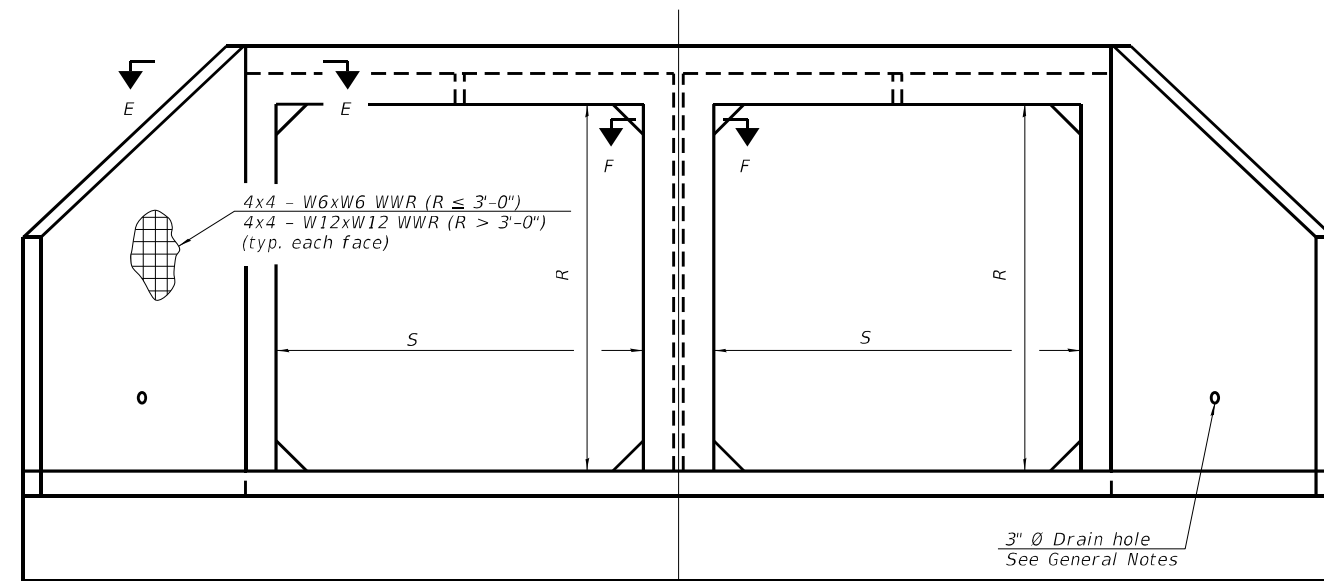
One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.



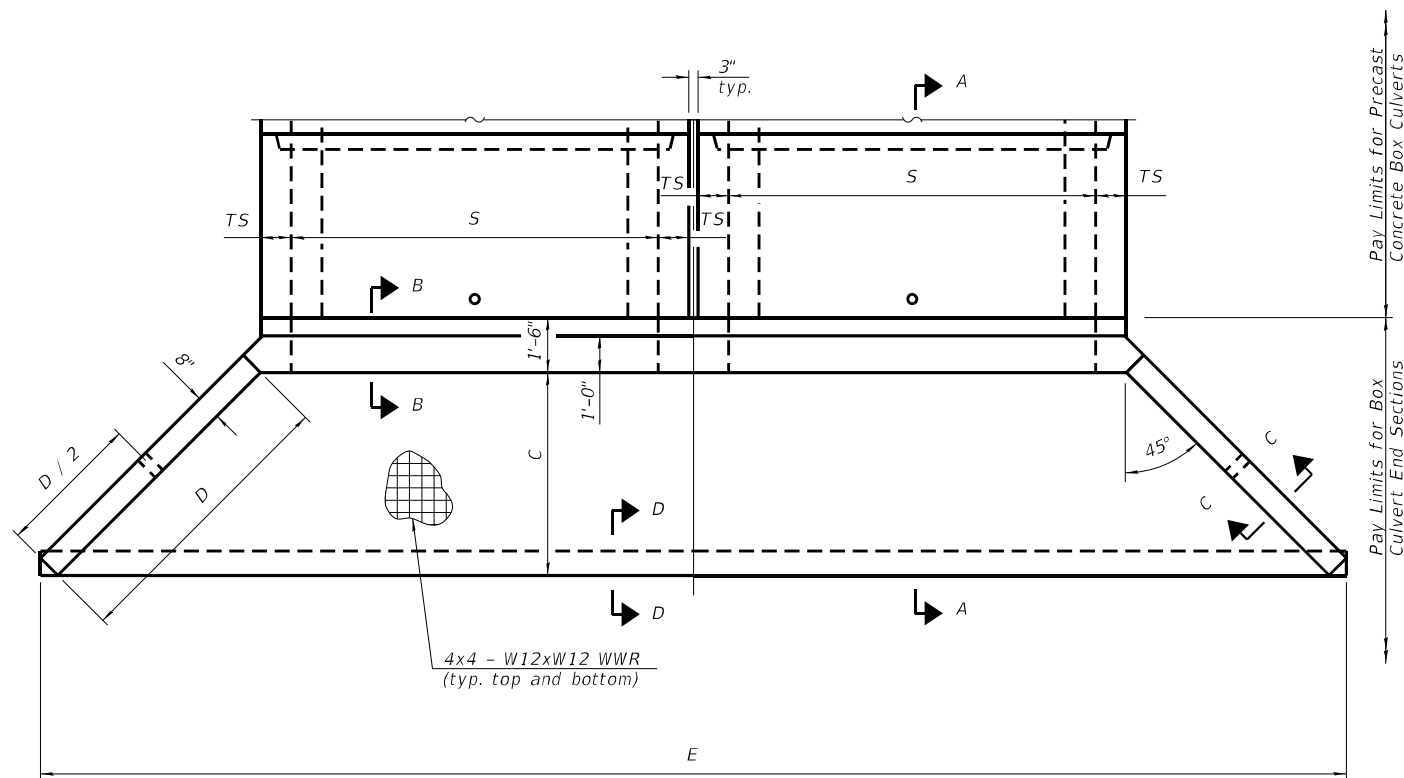
SECTION A-A

APRON END SECTION DIMENSIONS

Culvert No.	Span (S)	Rise (R)	Tt , Tb , & Ts	A	B	C	D	Triple Cell	
								E	Concrete Cu. Yd.
Culvert 8	12'-0"	2'-0"	12"	3'-9"	2'-5"	3'-3 3/8"	4'-8"	50'-0 1/2"	16.5



END VIEW



PLAN

Pay Limits for Precast Concrete Box Culverts

Pay Limits for Box Culvert End Sections

HRC PROJECT NO.: #PROJECT#08
 HRC PROJ. CONTACT: #HRC#048
 FILE NAME: C:\3-SIT\DRAN-CULV-Det+MultiCellApron.End.Sections.Lof.2.dgn
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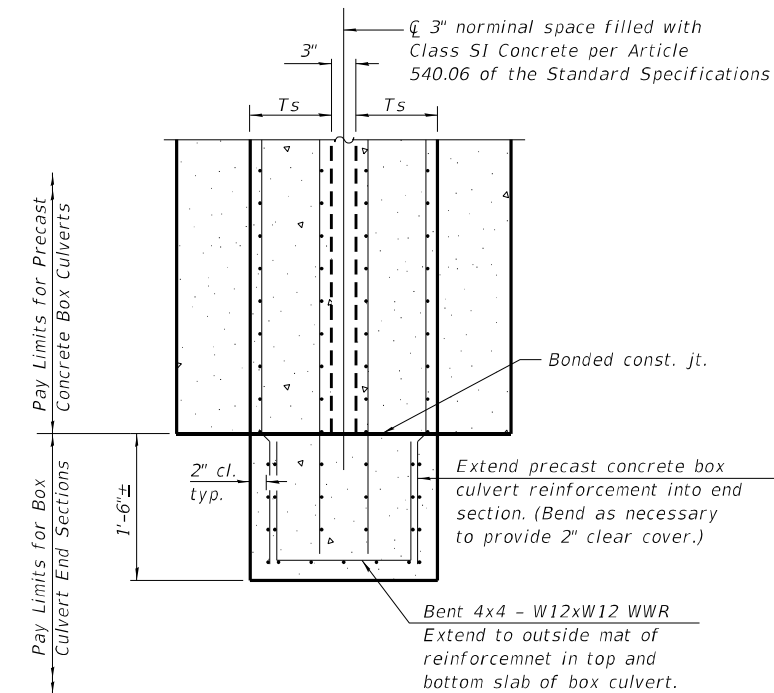
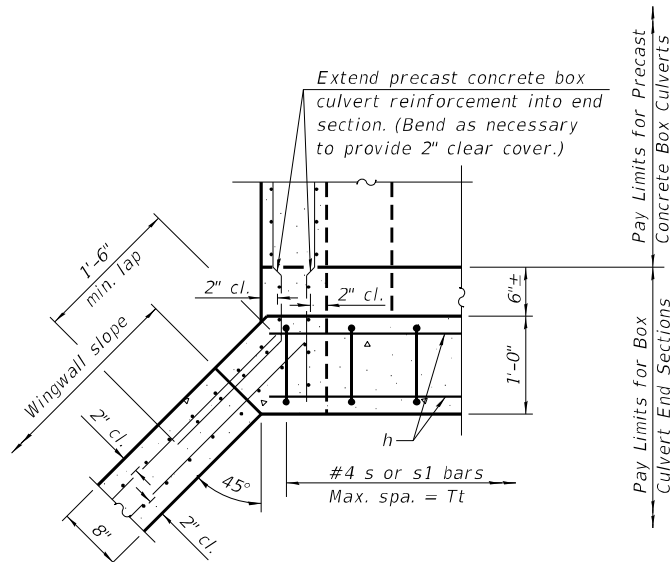
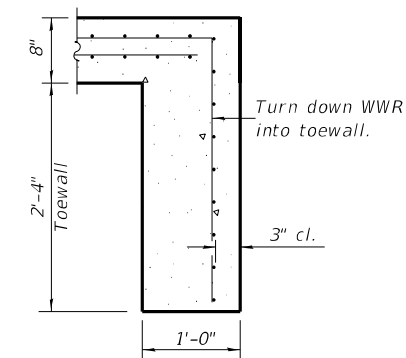
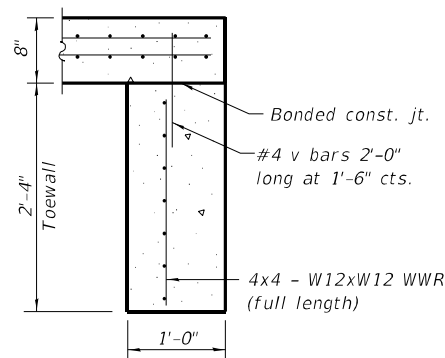
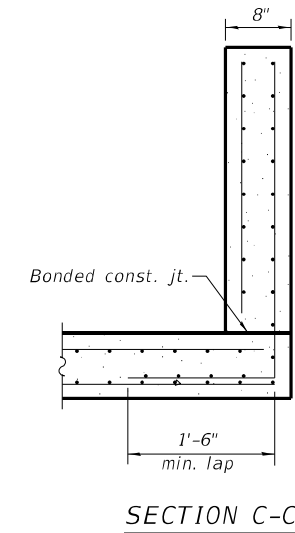
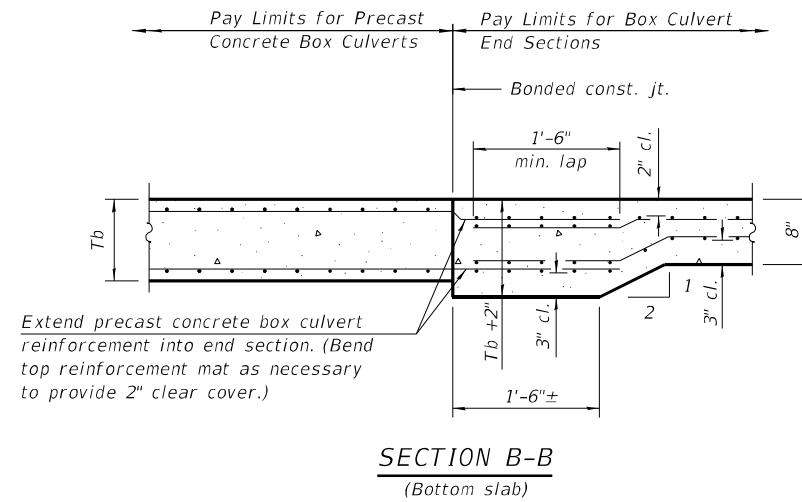
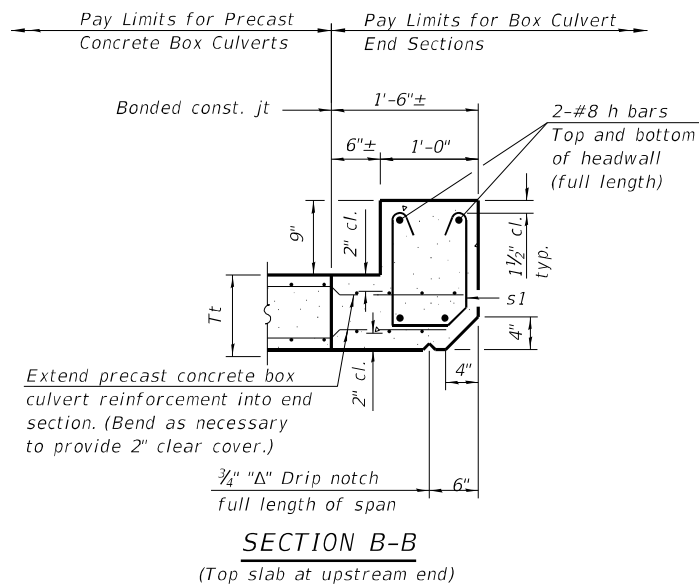
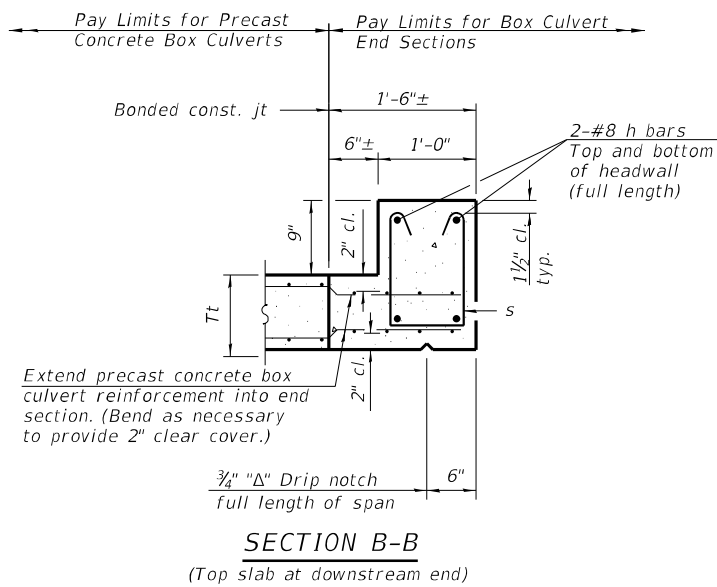
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PLOT DATE = 12/19/2025	DRAWN -	REVISED -
	CHECKED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MULTI-CELL PRECAST CONCRETE BOX CULVERT
APRON END SECTION DETAILS**

SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R.C.TS.SW	MCHENRY	553	290
ILLINOIS FED. AID PROJECT			CONTRACT NO. 80C85	

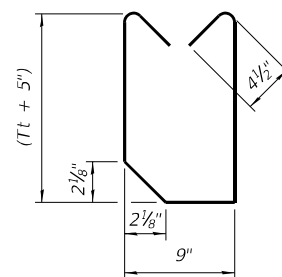
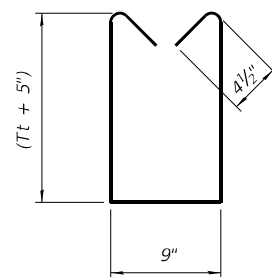


TOEWALL CONSTRUCTION SEQUENCE

1. Perform excavation and construct toewall.
2. Backfill accordingly and prepare bedding for box culvert end sections.
3. Construct remainder of box culvert end section.

Note:

If soil conditions permit, the toewall may be poured monolithically with the bottom slab of the end section using Alt. Section D-D subject to approval from the Engineer.



HRC PROJECT NO.: #PROJECT108
 HRC PROJ. CONTACT: #HRGPKS
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PLOT SCALE =	
PLOT DATE =	12/19/2025

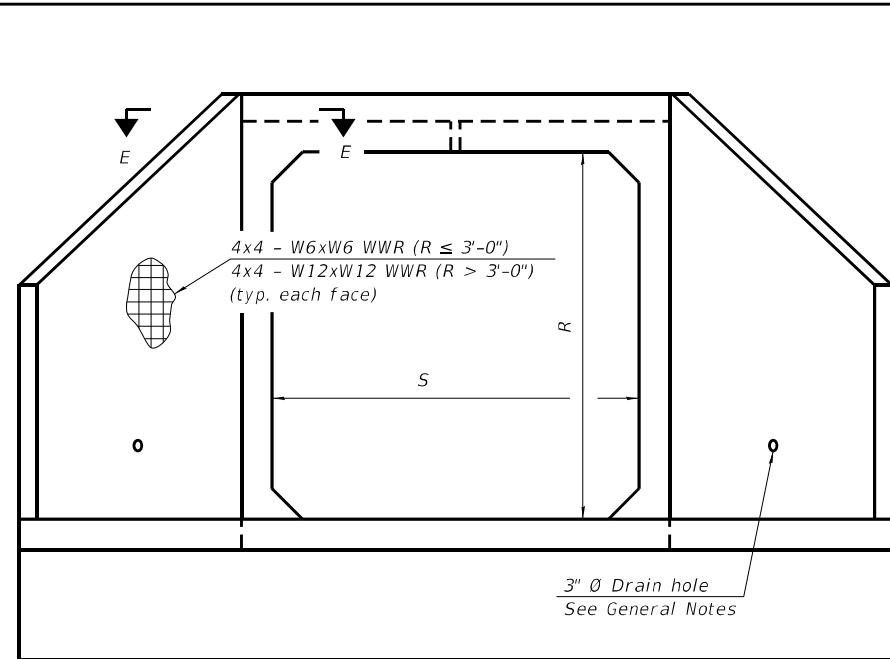
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

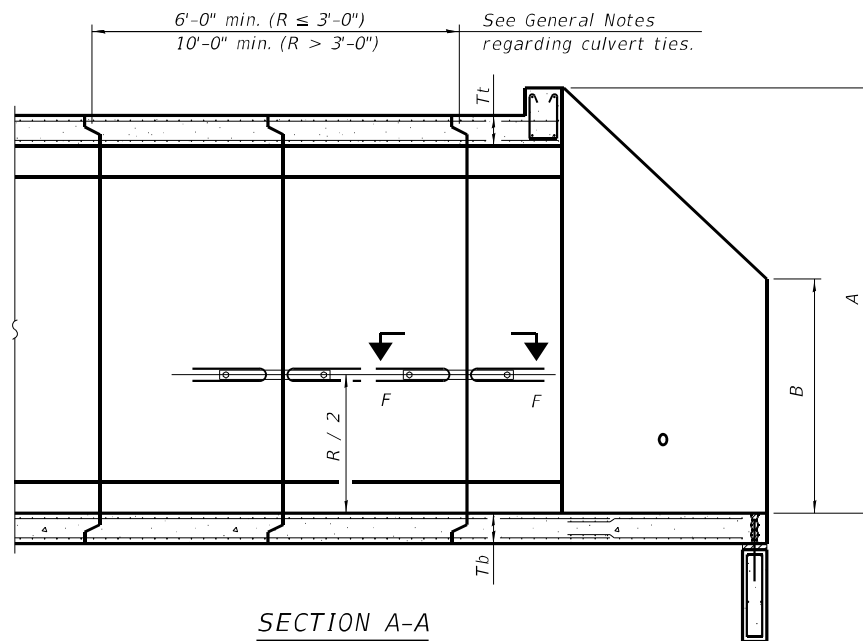
**MULTI-CELL PRECAST CONCRETE BOX CULVERT
APRON END SECTION DETAILS**

SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R.C.TS.SW	McHENRY	553	291
CONTRACT NO. 80C85				
ILLINOIS FED. AID PROJECT				



END VIEW



SECTION A-A

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

The Contractor may furnish the end section as a single precast concrete piece or construct the end section in the field using cast-in-place (CIP) construction. For CIP construction, the bottom slab thickness shall be increased by 2" and the clear cover to the bottom mat of reinforcement shall be increased to 3".

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The number of culvert ties shall be sufficient to engage the minimum length of culvert barrel shown within the pay limits for Precast Concrete Box Culverts and will be dependent upon the length of box culvert segments furnished by the Contractor. Culvert ties are not required for box culverts having a rise (R) less than or equal to 3 ft and a span (S) greater than or equal to 10 ft.

All costs associated with furnishing and installing or constructing the toewall and culvert ties will not be measured for payment but shall be included in the unit price for Box Culvert End Sections of the culvert number specified.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2". For the precast option, it shall be the Contractor's responsibility for determining a method of handling and a construction procedure shall be included in the shop drawings. The Contractor shall determine and detail in the shop drawings any necessary strengthening or stiffening provisions necessary to handle the precast segment. Any required modifications shall be at no extra charge.

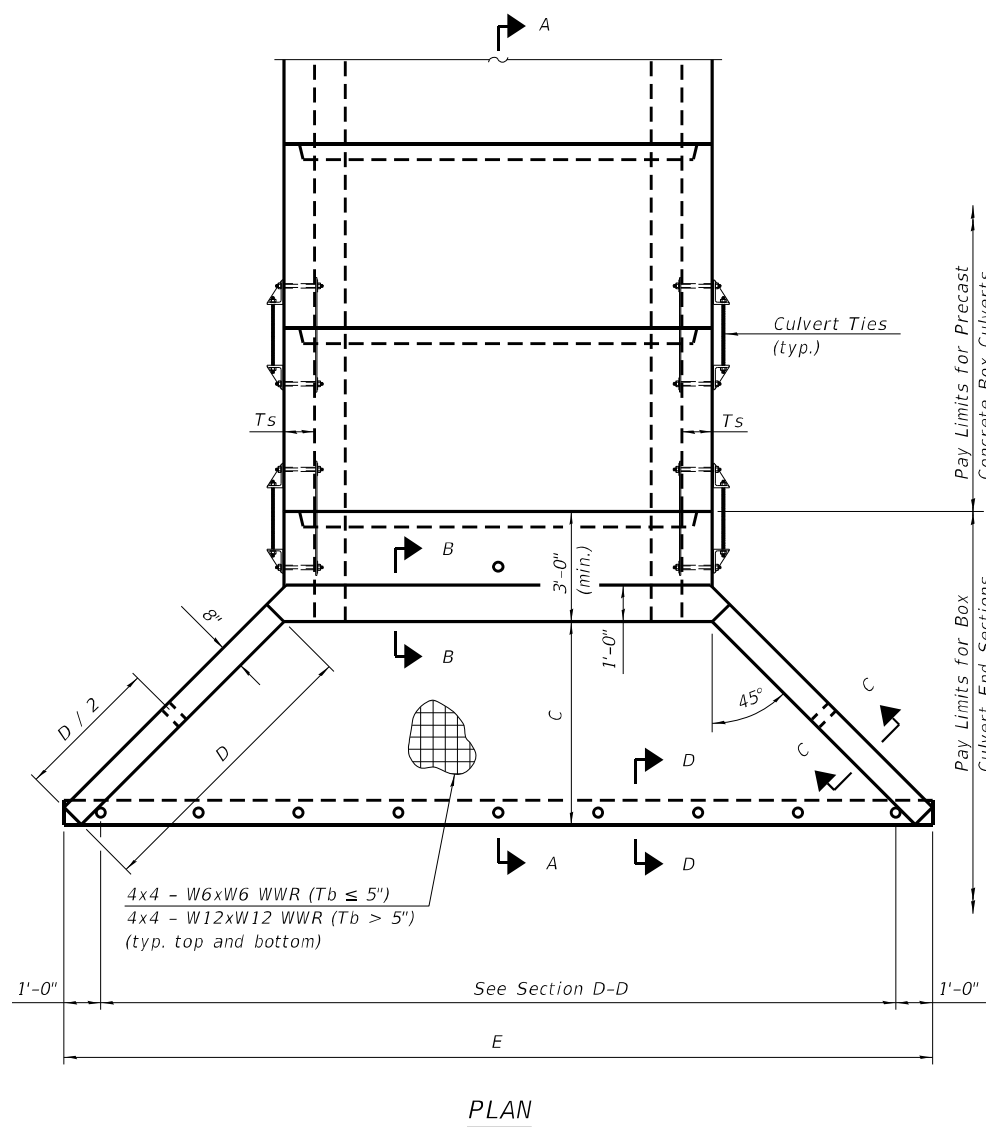
The Contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the culvert barrel portion of the end section being lapped with reinforcement from the wingwalls or bottom slab of the end section shall not be less than that required by ASTM C 1577 for the design fill height or the reinforcement detailed for the end section, whichever is greater.

One drain hole shall be provided in each wingwall for end sections of box culverts having an opening with a clear rise greater than 3 ft. The drain hole shall be located within the lower 1/3 of the clear rise of the box culvert and shall conform to the requirements of Article 503.11 of the Standard Specifications.

APRON END SECTION DIMENSIONS

Culvert No.	Span (S)	Rise (R)	Tt	Tb	Ts	A	B	C	D	E	Concrete Cu. Yd.	Culvert Ties Required
Culvert 1	5'-0"	2'-0"	8"	7"	6"	3'-5"	2'-3"	2'-11 3/8"	4'-2"	12'-10"	3.9	Yes
Culvert 2	8'-0"	4'-0"	8"	8"	8"	5'-5"	3'-3"	4'-11 3/8"	7'-0"	20'-2 1/8"	7.8	Yes
Culvert 3	6'-0"	5'-0"	8"	7"	7"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	20'-0 1/8"	8.0	Yes
Culvert 4	10'-0"	5'-0"	10"	10"	10"	6'-7"	3'-10"	6'-1 1/2"	8'-8"	24'-10 3/8"	12.0	Yes
Culvert 5	6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	22'-0 1/4"	9.5	Yes
Culvert 6	6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	16'-0 1/8"	5.4	Yes
Culvert 7	6'-0"	6'-0"	8"	7"	7"	7'-5"	4'-3"	6'-11 1/2"	9'-10"	22'-0 1/4"	9.5	Yes
Culvert 9	8'-0"	5'-0"	8"	8"	8"	6'-5"	3'-9"	5'-11 3/8"	8'-5"	22'-2 1/8"	9.3	Yes
Culvert 10	12'-0"	2'-0"	12"	12"	12"	3'-9"	2'-5"	3'-3 3/8"	4'-8"	21'-6 1/2"	9.3	No
Culvert 11	6'-0"	3'-0"	8"	7"	7"	4'-5"	2'-9"	3'-11 3/8"	5'-7"	16'-0 1/8"	5.4	Yes
Culvert 12	12'-0"	3'-0"	12"	12"	12"	4'-9"	2'-11"	4'-3 3/8"	6'-1"	23'-6 1/2"	11.1	No



PLAN

Pay Limits for Precast Concrete Box Culverts

Pay Limits for Box Culvert End Sections

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 HRG PROJ. CONTACT: #HRGPK#
 FILE NAME: C3-SHT-DRWN-CULV-DET-Single-Apron-End-Sections.I.dgn
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 PEN TABLE: #PEN.TABLE#



USER NAME = mzuuzko
 DESIGNED -
 CHECKED -
 PLOT SCALE =
 PLOT DATE = 12/19/2025

DESIGNED -
 CHECKED -
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 CHECKED -

REVISED -
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 REVISED -
 REVISED -

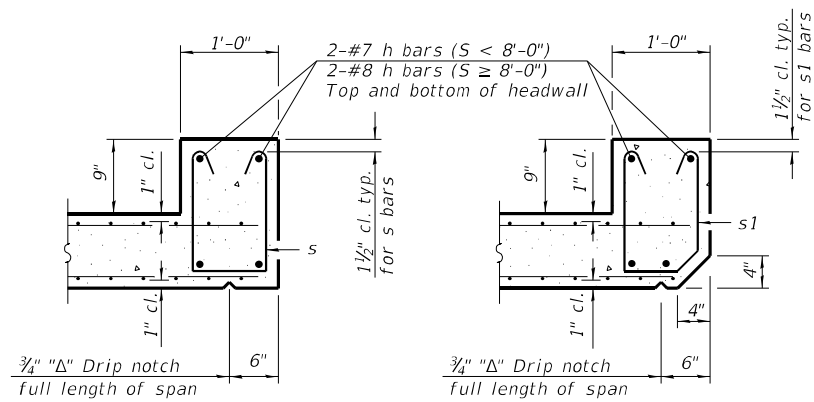
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SINGLE CELL PRECAST CONCRETE BOX CULVERT
 APRON END SECTION DETAILS

SHEET NO. 1 OF 2 SHEETS

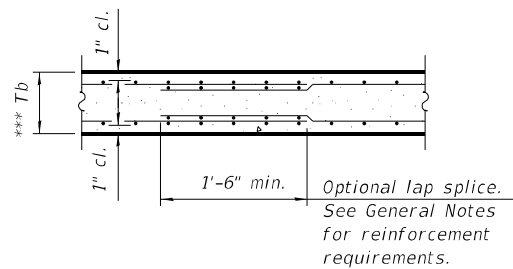
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R.C.TS.SW	MCHENRY	553	292
CONTRACT NO. 80C85				

ILLINOIS FED. AID PROJECT



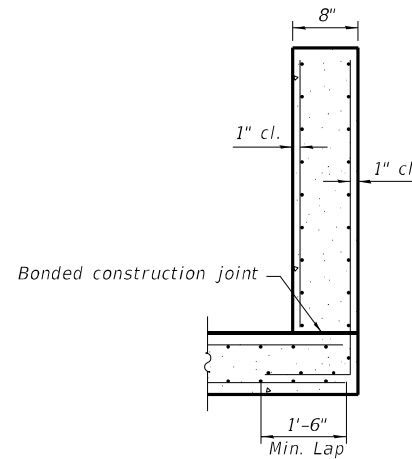
SECTION B-B
(Top slab at downstream end)

SECTION B-B
(Top slab at upstream end)

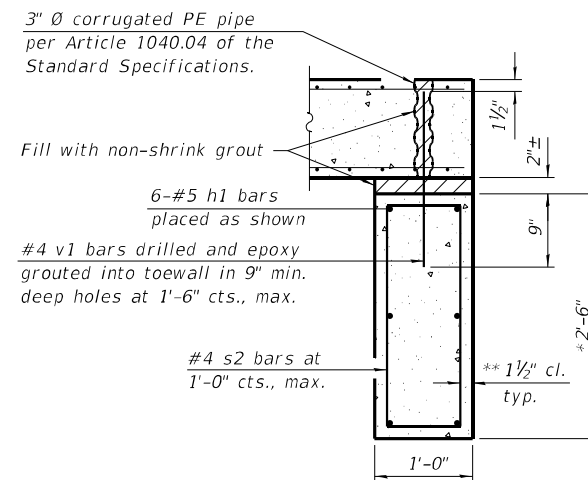


SECTION B-B
(Bottom Slab)

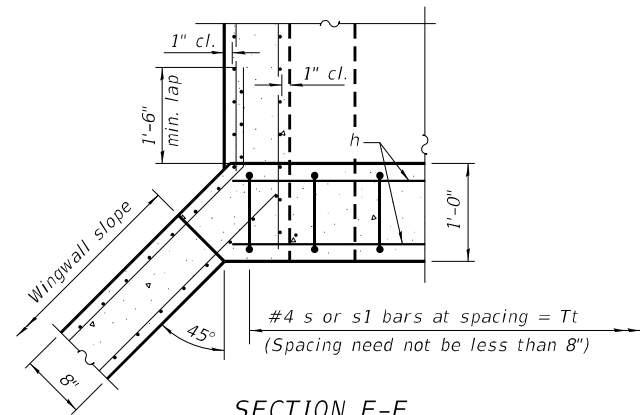
This dimension shall be increased by 2" for CIP construction.



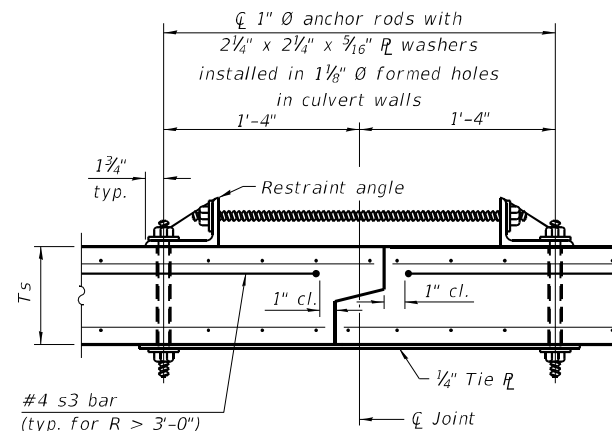
SECTION C-C



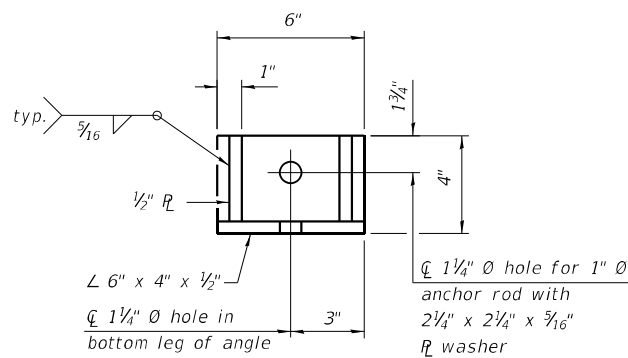
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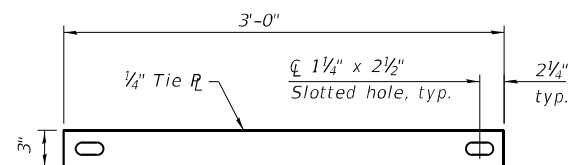
SECTION E-E



SECTION F-F
(Showing culvert tie details)



RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL

TOEWALL CONSTRUCTION SEQUENCE

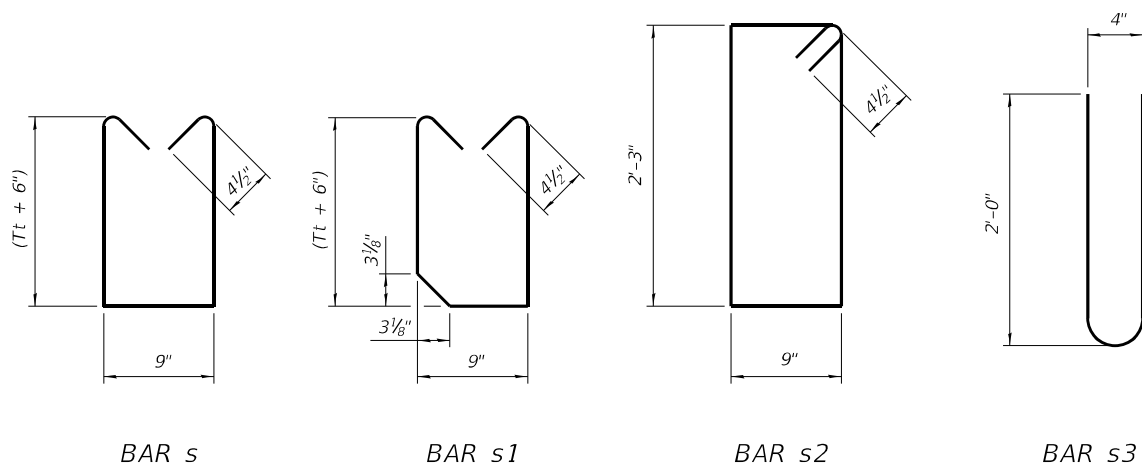
1. Perform excavation and construct toewall.
2. Backfill accordingly and place bedding for precast box culvert end sections.
3. Set precast box culvert end section.
4. Drill and epoxy grout reinforcement in toewall in accordance with Section 584 of the Standard Specifications.
5. Pressure grout voids using non-shrink grout conforming to Section 1024 of the Standard Specifications.

* The Contractor may furnish a precast or cast-in-place toewall. The Contractor shall be responsible for the strength and stability of the precast toewall during handling. Additional lifting points may be required depending upon the length of the toewall or the Contractor may need to modify the design of the toewall for the proposed handling method.

** If soil conditions permit, the sides of the toewall may be poured directly against the soil. The clear cover on the sides of the toewall shall be increased to 3" by increasing the thickness of the toewall.

Notes:

1" diameter anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2 1/4" x 2 1/4" x 3/16" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional 1/2 turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.



BAR s

BAR s1

BAR s2

BAR s3

HRG PROJECT NO.: #PROJECT108
HRG PROJ. CONTACT: #HRGPKM
FILE NAME: C3-SIT-DRM-CULV-Dr+Single-Apron-End-Sections.2 of 2.dgn
PLOT DRIVER: #PLOT.DRV#
PEN TABLE: #PEN.TABLE#



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DESIGNED -
CHECKED -
PLOT SCALE =
DRAWN -
PLOT DATE = 12/19/2025

DESIGNED -
CHECKED -
DRAWN -
CHECKED -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SINGLE CELL PRECAST CONCRETE BOX CULVERT
APRON END SECTION DETAILS**

SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R.C.TS.SW	MCHEMRY	553	293
CONTRACT NO. 80C85				
ILLINOIS FED. AID PROJECT				

MANHOLES TO BE ADJUSTED (60255500)

ALIGNMENT	STATION OFFSET	EX RIM EL	PR RIM EL	EACH
PRIME PKWY	12+01.81, 32.67' RT	814.46	813.53	1
PRIME PKWY	14+82.70, 31.88' RT	816.65	815.45	1
PRIME PKWY	18+74.60, 46.10' RT	825.29	823.93	1
IL 31	339+03.37, 64.51' RT	824.69	825.43	1
IL 31	339+60.60, 66.62' RT	827.84	825.81	1
IL 31	342+63.58, 56.49' RT	823.65	823.04	1
IL 31	343+23.57, 49.41' LT	824.58	823.20	1
IL 31	343+29.44, 54.16' RT	822.78	823.70	1
IL 31	346+59.17, 59.94' RT	821.43	820.61	1
IL 31	349+64.69, 59.52' RT	818.16	819.22	1
IL 31	352+11.25, 57.76' RT	819.20	819.23	1
IL 31	355+51.91, 55.04' RT	821.82	822.87	1
IL 31	355+55.30, 34.24' LT	820.77	822.79	1
IL 31	358+02.07, 51.63' RT	823.61	825.42	1
IL 31	368+57.94, 53.91' LT	832.62	831.59	1
IL 31	381+22.92, 56.31' LT	839.49	838.90	1
IL 31	381+93.48, 38.88' LT	838.52	837.84	1
IL 31	382+16.59, 41.90' RT	838.85	838.60	1
	TOTAL			18

SANITARY SEWER CROSSINGS

CrossingID	Alignment	Station	Offset	L/R	Surface Elevation	TOP PIPE						BOTTOM PIPE				Vertical Clearance (ft)		
						Pipe Type	EX/PR	Size (inches)	Material	Invert	Thickness (inches)	Bottom of Pipe Elevation	Pipe Type	EX/PR	Size (inches)		Material	Top of pipe
C4	IL31	339+61.31	63	RT	825.75	STORM	PR	12	RCP	822.48	2	822.31	SANITARY	EX	8	PVC	814.40	7.91
C6	PRIMEPKWY	18+75.25	43	LT	823.03	STORM	PR	12	RCP	818.55	2	818.38	SANITARY	EX	10	PVC	803.52	14.86
C12	IL31	342+72.01	62	LT	822.86	STORM	PR	36	RCP	815.70	4	815.37	SANITARY	EX	10	PVC	804.66	10.71
C13	IL31	343+07.73	53	LT	823.38	STORM	PR	24	RCP	816.36	3	816.11	SANITARY	EX	10	PVC	804.79	11.32
C14	ALBANY	11+27.00	31	LT	824.38	STORM	PR	4' MH	RCP	816.81			SANITARY	EX	10	PVC	805.95	10.86
C15	ALBANY	10+97.38	31	LT	824.10	STORM	PR	4' MH	RCP	817.04			SANITARY	EX	10	PVC	805.80	11.24
C16	IL31	342+98.78	55	RT	823.86	STORM	PR	24	RCP	816.81	3	816.56	SANITARY	EX	8	PVC	805.42	11.14
C17	IL31	343+76.09	55	RT	823.48	STORM	PR	12	RCP	819.17	2	819.00	SANITARY	EX	8	PVC	805.43	13.57
C18	IL31	345+15.51	57	RT	822.47	STORM	PR	12	RCP	817.93	2	817.76	SANITARY	EX	8	PVC	806.20	11.56
C21	DAYTON	10+74.51	24	RT	819.15	STORM	PR	14"X23"	RCP	816.38			SANITARY	EX	8	PVC	808.50	7.88
C23	IL31	355+59.43	51	LT	822.93	STORM	PR	36	RCP	815.54	4	815.21	SANITARY	EX	8	PVC	811.69	3.52
C34	IL31	381+44.98	51	0	839.43	STORM	PR	12	RCP	834.37	2	834.20	SANITARY	EX	8	PVC	828.34	5.86
C35	IL31	382+27.71	55	LT	837.62	STORM	PR	15	RCP	831.89	2.25	831.70	SANITARY	EX	8	PVC	830.83	0.87
C36	IL31	382+21.09	59	RT	838.80	STORM	PR	18	RCP	831.81	2.5	831.60	SANITARY	EX	8	PVC	830.80	0.80
C37	IL31	383+19.93	49	RT	838.25	STORM	PR	12	RCP	833.38	2	833.21	SANITARY	EX	8	PVC	831.26	1.95
C38	IL31	384+34.86	57	RT	837.26	STORM	PR	12	RCP	832.31	2	832.14	SANITARY	EX	8	PVC	831.78	0.36
C39	IL31	384+96.96	62	RT	837.44	SANITARY	EX	8	PVC	831.40	1.66	831.26	STORM	PR	18	RCP	830.83	0.43

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
SANITARY SEWERS - CITY OF MCHENRY**

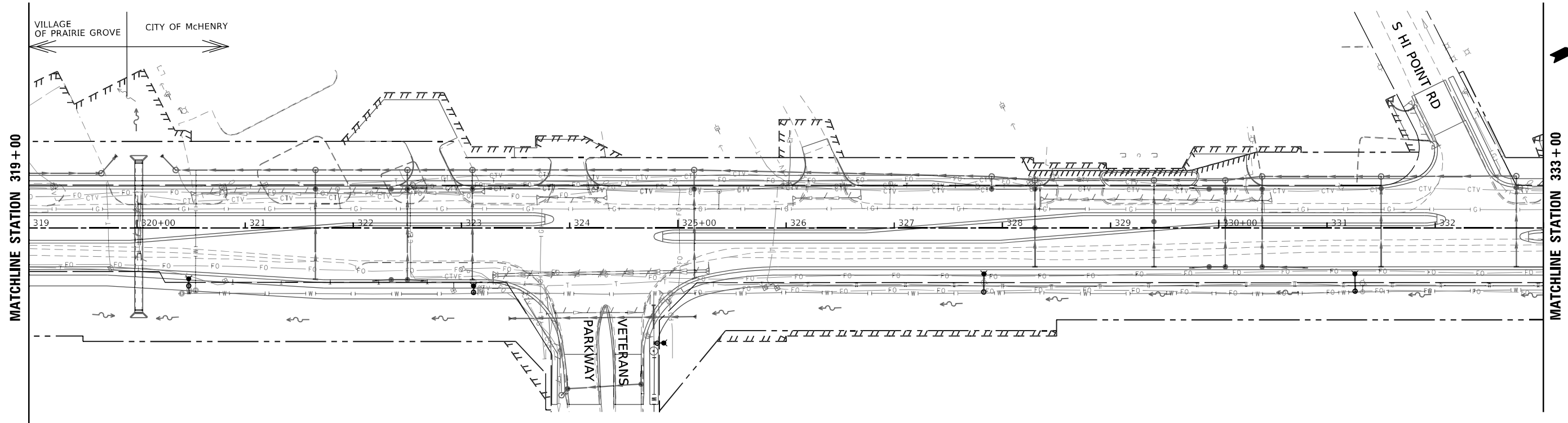
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	MCHENRY	553	294
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

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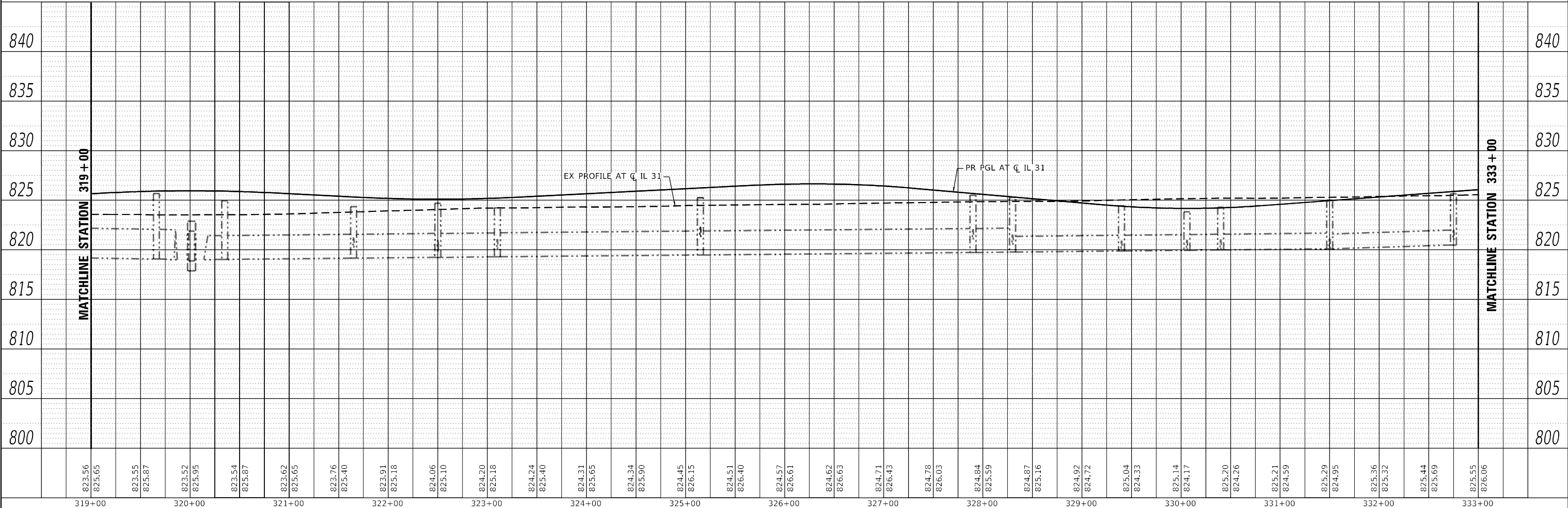
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PROPOSED WATER MAIN AND SANITARY LEGEND

	PROPOSED WATER MAIN		TO BE ABANDONED		STRUCTURE TO BE ADJUSTED
	PROPOSED SANITARY SEWER		TO BE REMOVED		STRUCTURE TO BE REMOVED



823.56	825.65	823.55	825.87	823.52	825.95	823.54	825.87	823.62	825.65	823.76	825.40	823.91	825.18	824.06	825.10	824.20	825.18	824.24	825.40	824.31	825.65	824.34	825.90	824.45	826.15	824.51	826.40	824.57	826.61	824.62	826.63	824.71	826.43	824.78	826.03	824.84	825.59	824.87	825.16	824.92	824.72	825.04	824.33	825.14	824.17	825.20	824.26	825.21	824.59	825.29	824.95	825.36	825.32	825.44	825.69	825.55	826.06
319+00	320+00	321+00	322+00	323+00	324+00	325+00	326+00	327+00	328+00	329+00	330+00	331+00	332+00	333+00																																											

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	DRAWN - SA	REVISED - REVBY2
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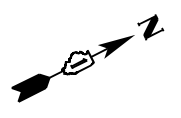
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CITY OF McHENRY - SANITARY RELOCATION
ILLINOIS ROUTE 31**

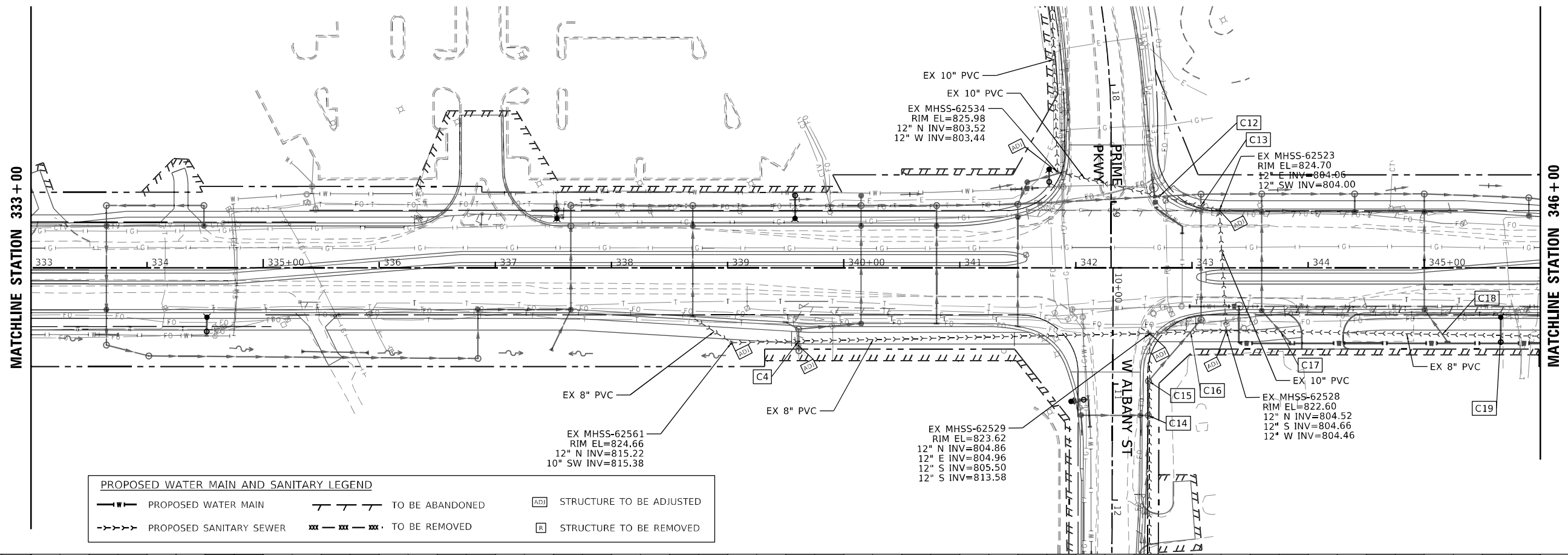
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F.A.P. RITE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 80C85				

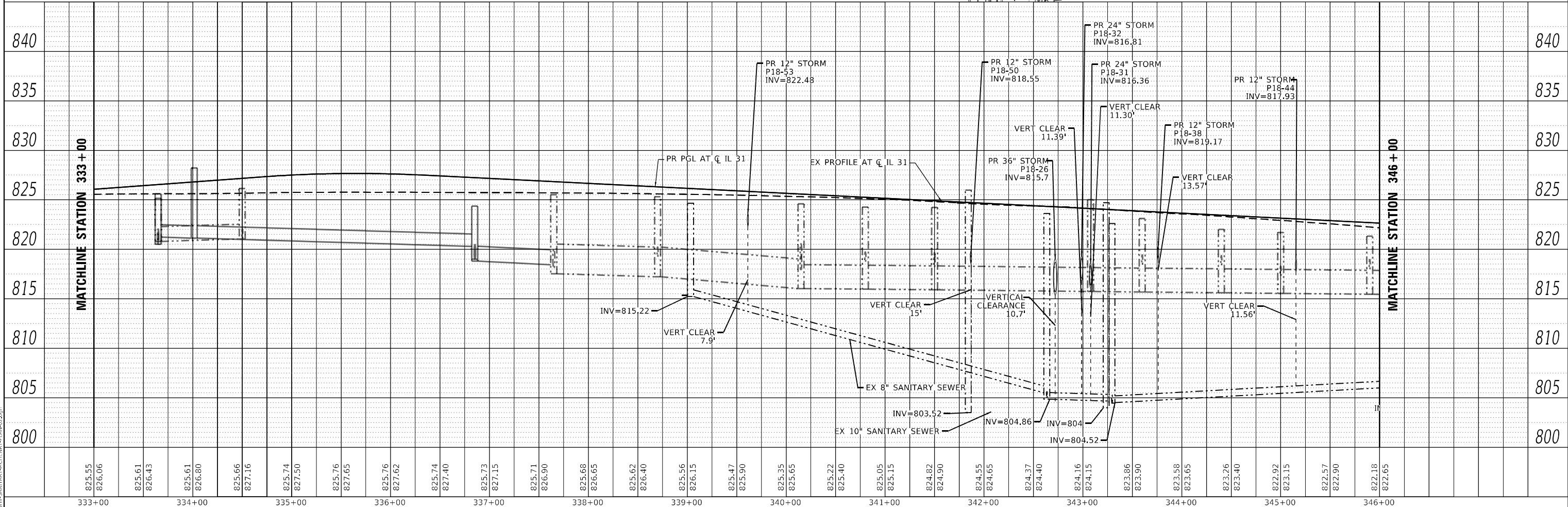
ILLINOIS FED. AID PROJECT



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	PIOTTED		
NOTE BOOK NO.	GRANDS CHECKED		
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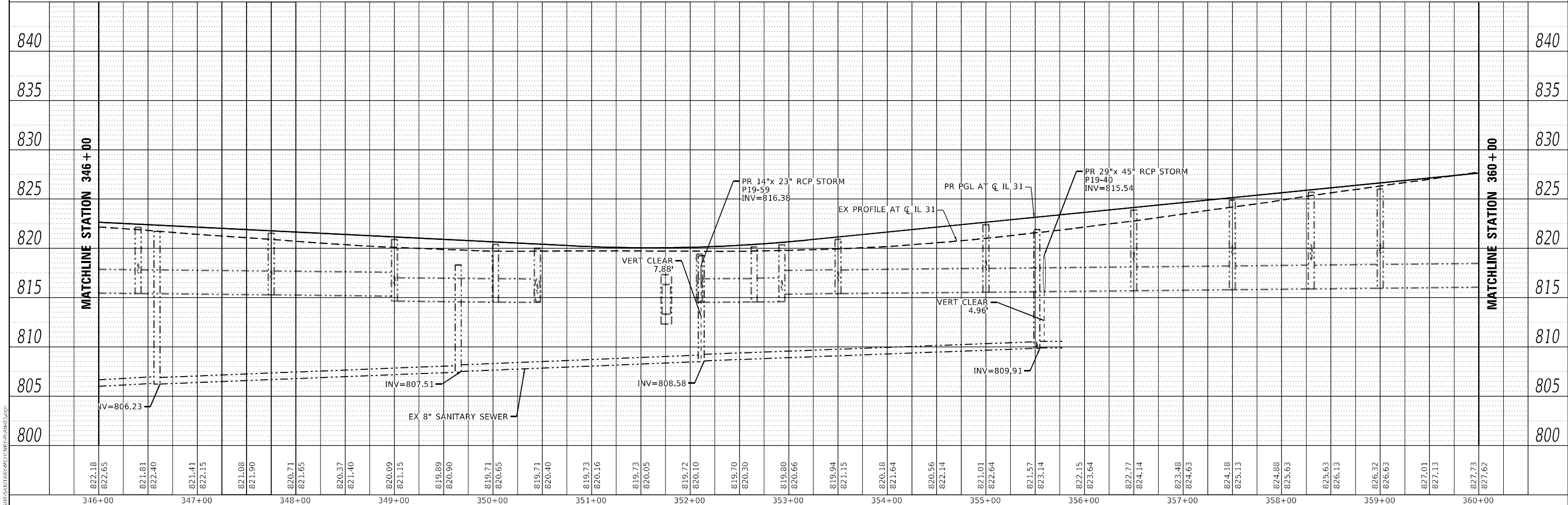
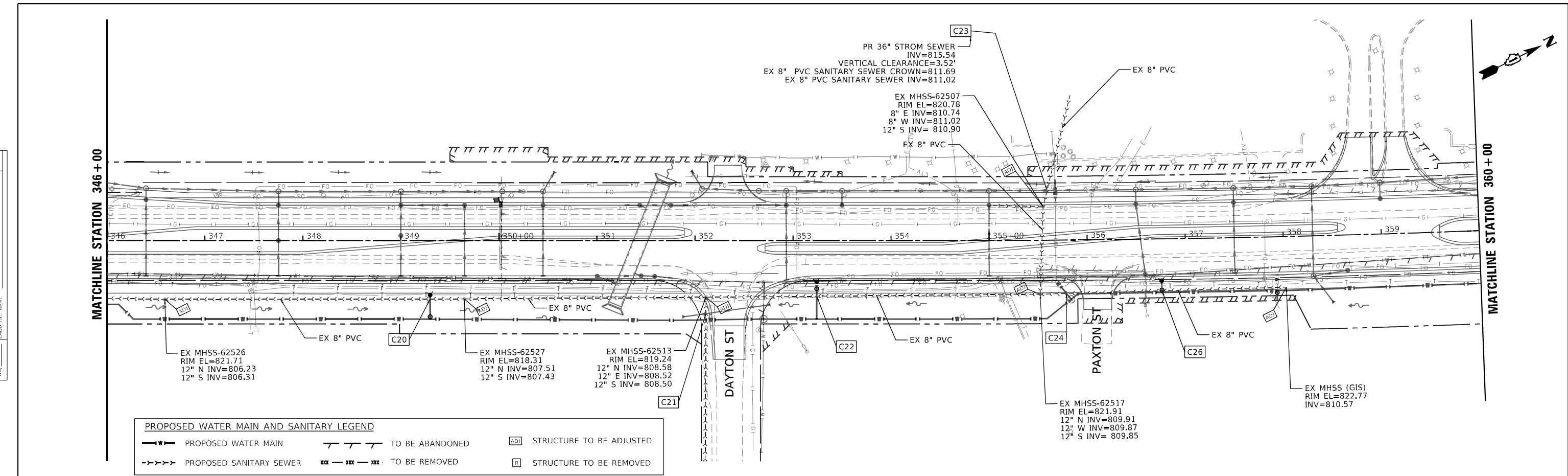
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF MCHENRY - SANITARY RELOCATION ILLINOIS ROUTE 31			
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F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	MCHENRY	553	296
CONTRACT NO. 80C85			ILLINOIS FED. AID PROJECT	

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	PLOTTED		
	ALIGNMENT CHECKED		
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PROFILE	SURVEYED	BY	DATE
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PLOT DATE = 1/30/2026	DATE - 1/9/2026	REVISED - REVBY4

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CITY OF MCHENRY - SANITARY RELOCATION
ILLINOIS ROUTE 31**

SCALE: 1"=50' SHEET 3 OF 6 SHEETS STA. 346+00 TO STA. 360+00

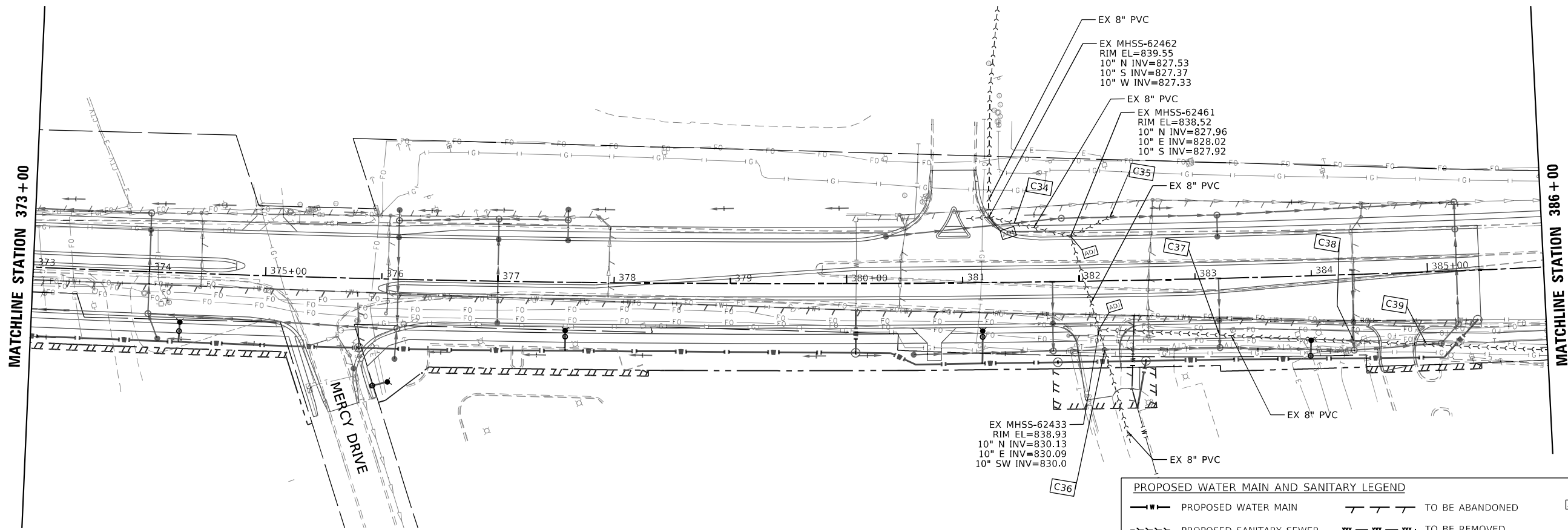
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CONTRACT NO. 80C85				
ILLINOIS FED. AID PROJECT				



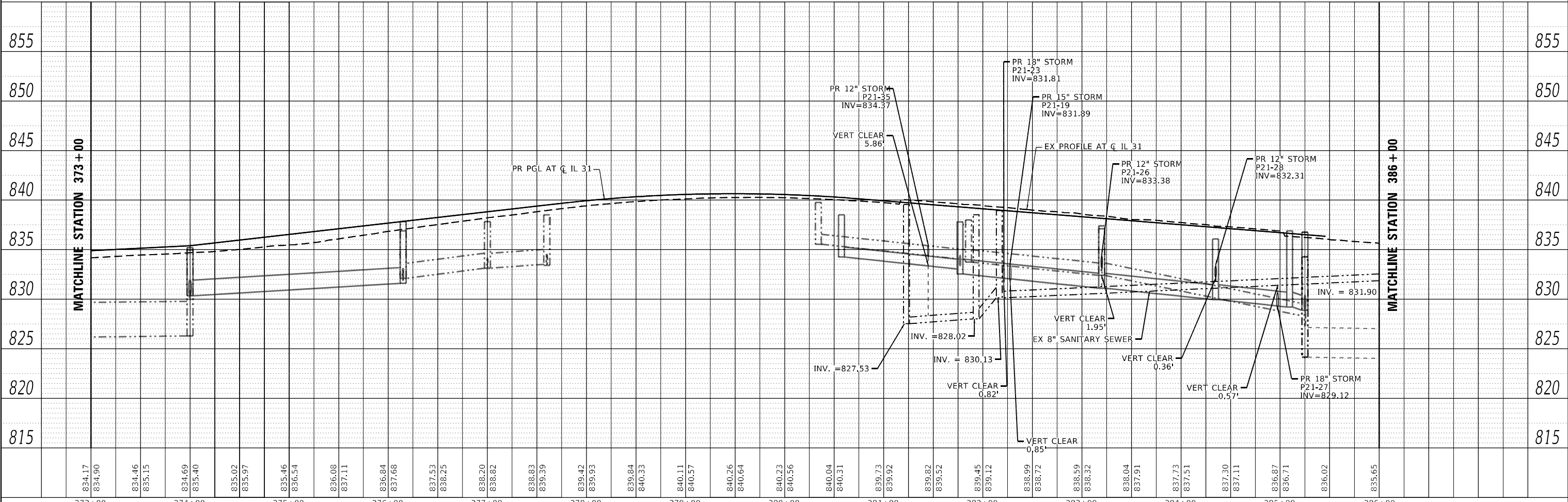
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	NOTE BOOK	
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PROPOSED WATER MAIN AND SANITARY LEGEND			
	PROPOSED WATER MAIN		TO BE ABANDONED
	PROPOSED SANITARY SEWER		TO BE REMOVED
	STRUCTURE TO BE ADJUSTED		STRUCTURE TO BE REMOVED



USER NAME = SA010	DESIGNED - SA	REVISED - REVBY1
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CITY OF McHENRY - SANITARY RELOCATION
ILLINOIS ROUTE 31**

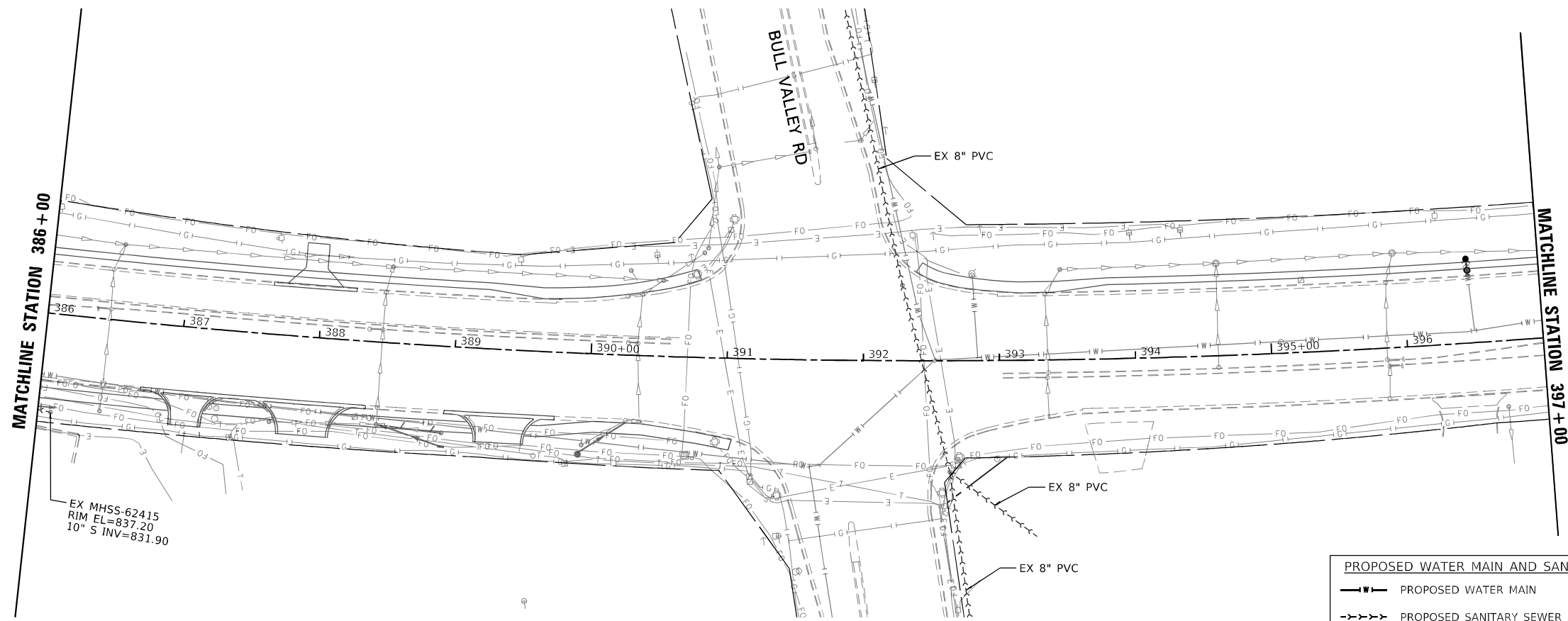
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 80C85				
ILLINOIS FED. AID PROJECT				

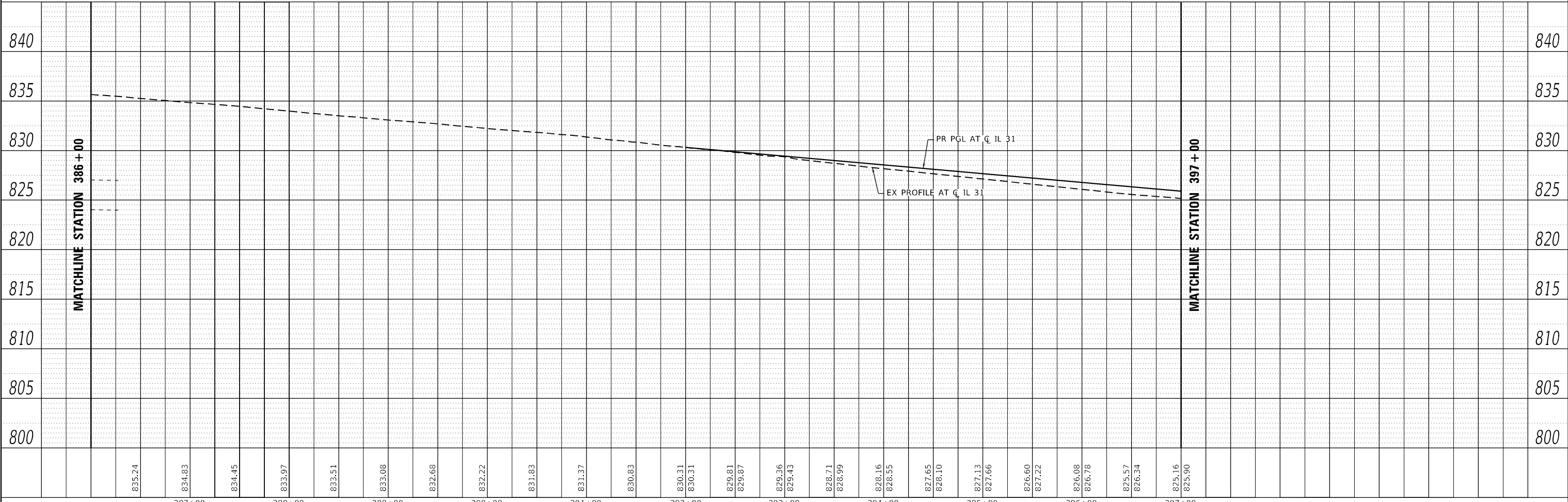


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	CONTRACT FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PIOTTED		
NOTE BOOK NO.	GRANDS CHECKED		
	STRUCTURE NOTATION CHECKED		



PROPOSED WATER MAIN AND SANITARY LEGEND			
	PROPOSED WATER MAIN		TO BE ABANDONED
	PROPOSED SANITARY SEWER		TO BE REMOVED
	STRUCTURE TO BE ADJUSTED		STRUCTURE TO BE REMOVED



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	DATE - 1/9/2026	REVISED - REVBY4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF MCHENRY - SANITARY RELOCATION
ILLINOIS ROUTE 31

SCALE: 1"=50' SHEET 6 OF 6 SHEETS STA. 386+00 TO STA. 397+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2025-2127-R,C,TS,SW	MCHENRY	553	300
CONTRACT NO.			80C85	
ILLINOIS		FED. AID PROJECT		