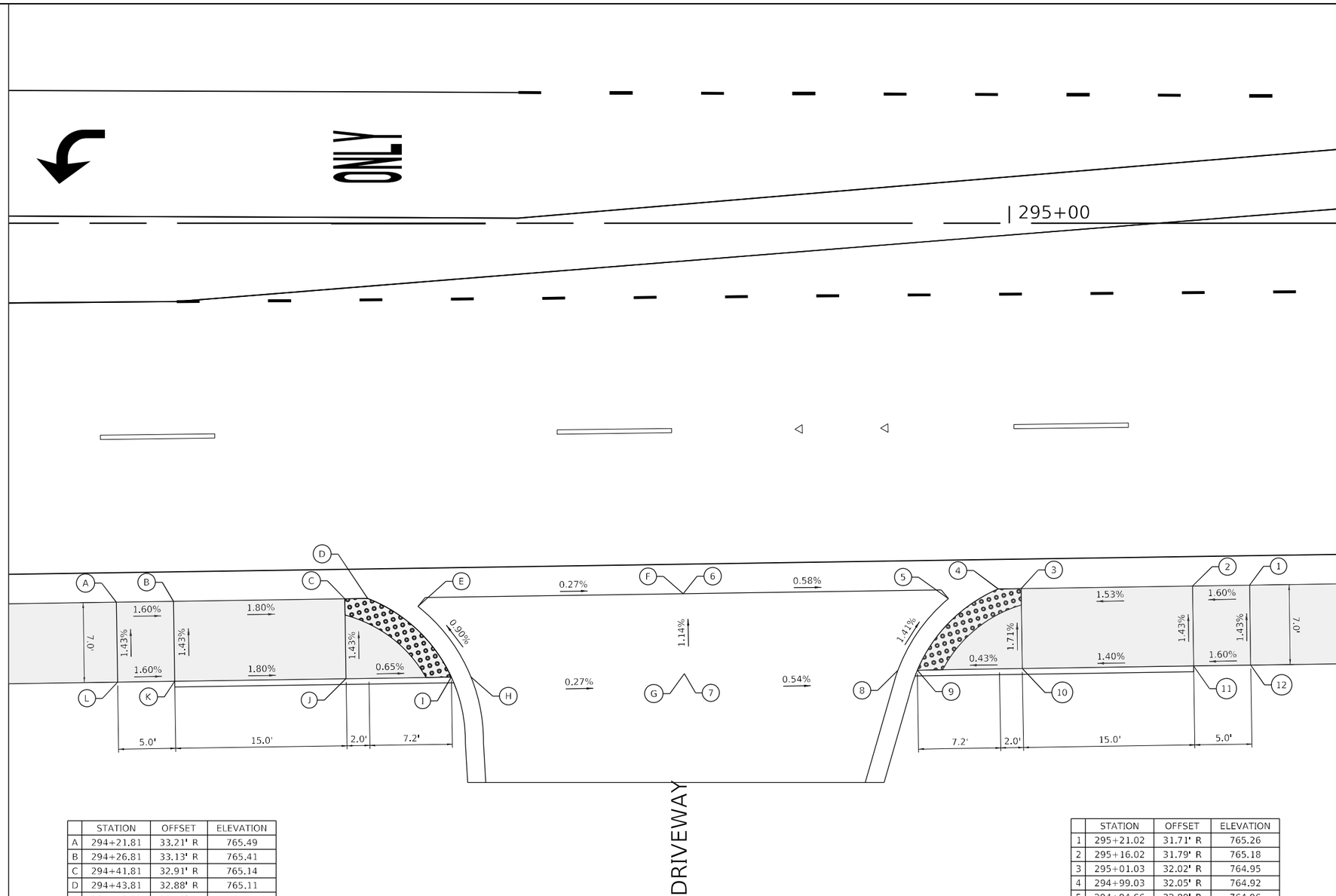

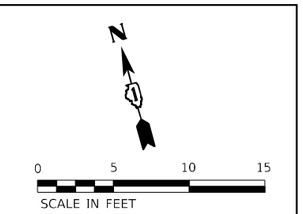

	STATION	OFFSET	ELEVATION
A	294+21.81	33.21' R	765.49
B	294+26.81	33.13' R	765.41
C	294+41.81	32.91' R	765.14
D	294+43.81	32.88' R	765.11
E	294+48.22	33.59' R	765.15
F	294+71.43	32.46' R	765.09
G	294+71.54	39.46' R	765.17
H	294+52.85	39.74' R	765.22
I	294+51.14	39.77' R	765.18
J	294+41.91	39.90' R	765.24
K	294+26.91	40.13' R	765.51
L	294+21.91	40.21' R	765.59

	STATION	OFFSET	ELEVATION
1	295+21.02	31.71' R	765.26
2	295+16.02	31.79' R	765.18
3	295+01.03	32.02' R	764.95
4	294+99.03	32.05' R	764.92
5	294+94.66	32.89' R	764.96
6	294+71.43	32.46' R	765.09
7	294+71.54	39.46' R	765.17
8	294+90.23	39.18' R	765.07
9	294+91.94	39.15' R	765.03
10	295+01.13	39.01' R	765.07
11	295+16.13	38.79' R	765.28
12	295+21.13	38.71' R	765.36

LEGEND

(XX.XX) EXISTING ELEVATION / SLOPE

PROPOSED SIDE CURB

XX.XX% PROPOSED ELEVATION / SLOPE

PROPOSED SIDEWALK

DETECTABLE WARNINGS

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Peralte-Clark LLC

USER NAME = mike.thon	DESIGNED - MJJ	REVISED -	
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PLOT DATE = 2/2/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

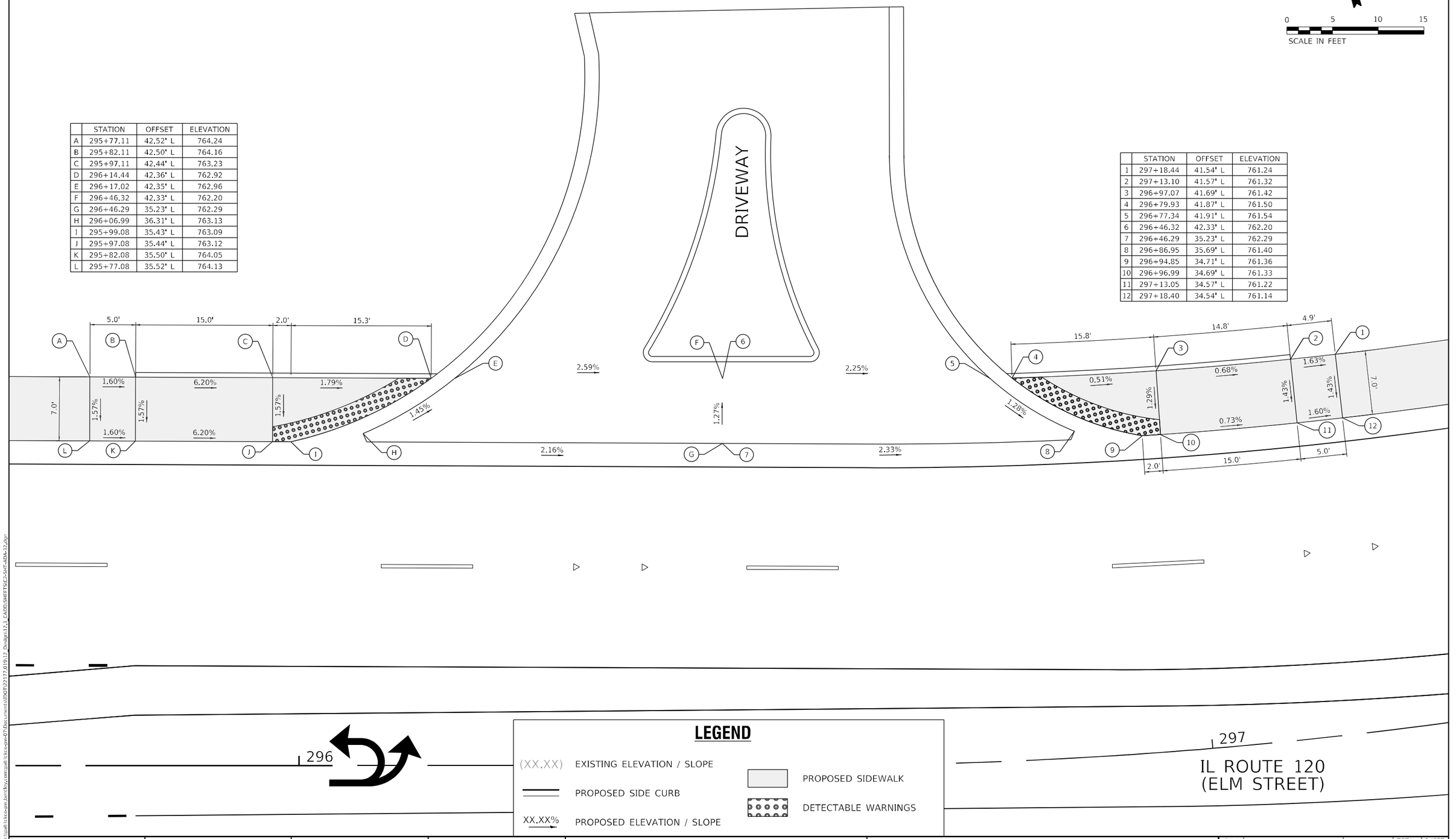
ADA RAMP DETAILS – SE AND SW CORNERS
ILLINOIS ROUTE 120 /DRIVEWAY STA. 294+71.00

SCALE: 1"=5' | SHEET 31 OF 35 SHEETS | STA. 294+71.00 TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	201
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

	STATION	OFFSET	ELEVATION
A	295+77.11	42.52' L	764.24
B	295+82.11	42.50' L	764.16
C	295+97.11	42.44' L	763.23
D	296+14.44	42.36' L	762.92
E	296+17.02	42.35' L	762.96
F	296+46.32	42.33' L	762.20
G	296+46.29	35.23' L	762.29
H	296+06.99	36.31' L	763.13
I	295+99.08	35.43' L	763.09
J	295+97.08	35.44' L	763.12
K	295+82.08	35.50' L	764.05
L	295+77.08	35.52' L	764.13

	STATION	OFFSET	ELEVATION
1	297+18.44	41.54' L	761.24
2	297+13.10	41.57' L	761.32
3	296+97.07	41.69' L	761.42
4	296+79.93	41.87' L	761.50
5	296+77.34	41.91' L	761.54
6	296+46.32	42.33' L	762.20
7	296+46.29	35.23' L	762.29
8	296+86.95	35.69' L	761.40
9	296+94.85	34.71' L	761.36
10	296+96.99	34.69' L	761.33
11	297+13.05	34.57' L	761.22
12	297+18.40	34.54' L	761.14



LEGEND

(XX.XX) EXISTING ELEVATION / SLOPE

PROPOSED SIDE CURB

XX.XX% PROPOSED ELEVATION / SLOPE

PROPOSED SIDEWALK

DETECTABLE WARNINGS

Peralte-Clark LLC

USER NAME = mike.thon	DESIGNED - MJJ	REVISED -	
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PLOT DATE = 2/2/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS – NE AND NW CORNERS
ILLINOIS ROUTE 120 /DRIVEWAY STA. 296+49.00

SCALE: 1"=5' | SHEET 32 OF 35 SHEETS | STA. 296+49.00 TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	202
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

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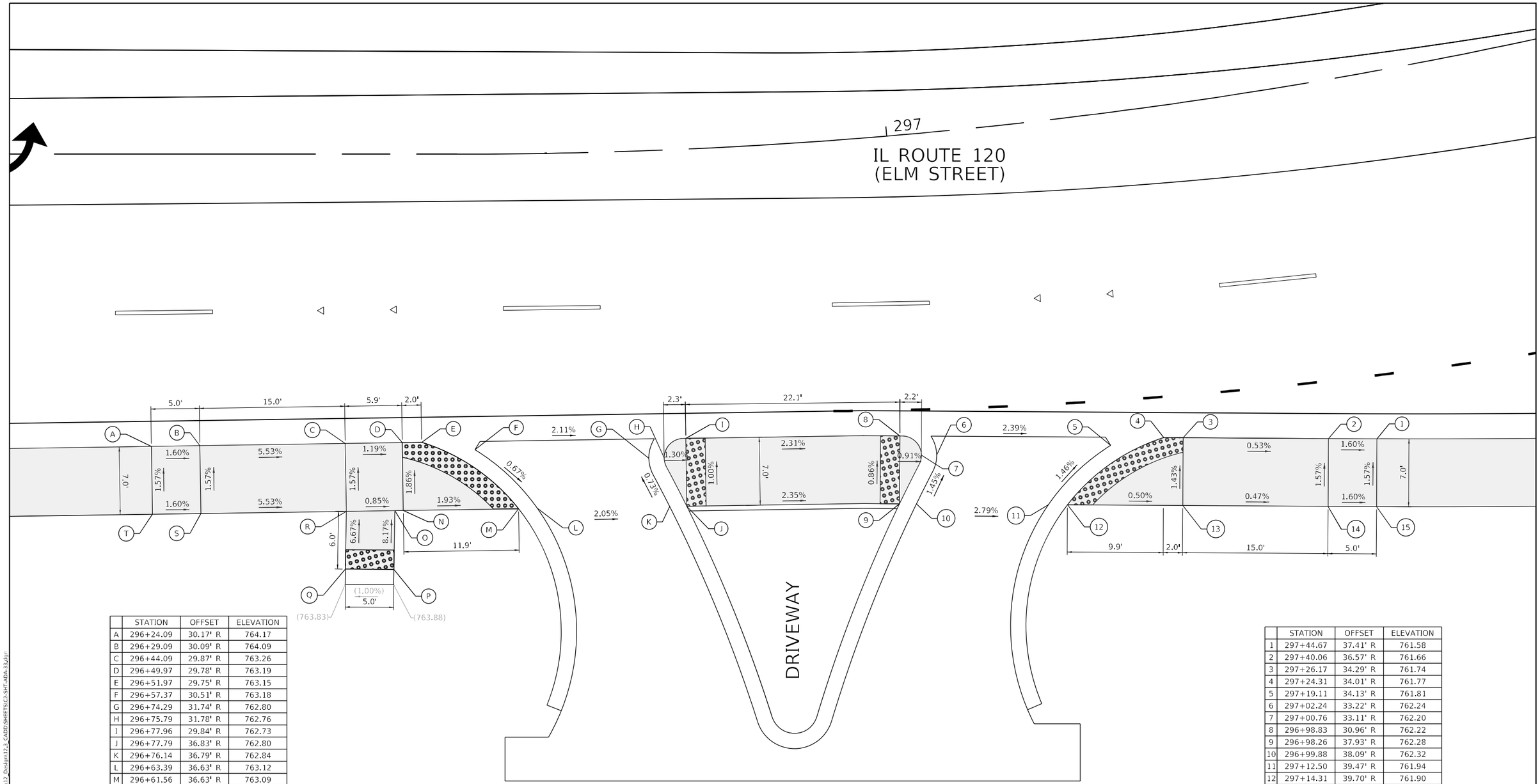

	STATION	OFFSET	ELEVATION
A	296+24.09	30.17' R	764.17
B	296+29.09	30.09' R	764.09
C	296+44.09	29.87' R	763.26
D	296+49.97	29.78' R	763.19
E	296+51.97	29.75' R	763.15
F	296+57.37	30.51' R	763.18
G	296+74.29	31.74' R	762.80
H	296+75.79	31.78' R	762.76
I	296+77.96	29.84' R	762.73
J	296+77.79	36.83' R	762.80
K	296+76.14	36.79' R	762.84
L	296+63.39	36.63' R	763.12
M	296+61.56	36.63' R	763.09
N	296+50.08	36.78' R	763.32
O	296+49.19	36.79' R	763.33
P	296+49.10	42.86' R	763.82
Q	296+44.10	42.83' R	763.77
R	296+44.19	36.86' R	763.37
S	296+29.19	37.09' R	764.20
T	296+24.19	37.16' R	764.28

	STATION	OFFSET	ELEVATION
1	297+44.67	37.41' R	761.58
2	297+40.06	36.57' R	761.66
3	297+26.17	34.29' R	761.74
4	297+24.31	34.01' R	761.77
5	297+19.11	34.13' R	761.81
6	297+02.24	33.22' R	762.24
7	297+00.76	33.11' R	762.20
8	296+98.83	30.96' R	762.22
9	296+98.26	37.93' R	762.28
10	296+99.88	38.09' R	762.32
11	297+12.50	39.47' R	761.94
12	297+14.31	39.70' R	761.90
13	297+25.27	41.22' R	791.84
14	297+38.99	43.48' R	761.77
15	297+43.54	44.31' R	761.69

LEGEND

(XX.XX) EXISTING ELEVATION / SLOPE

PROPOSED SIDE CURB

XX.XX% PROPOSED ELEVATION / SLOPE

PROPOSED SIDEWALK

DETECTABLE WARNINGS

N

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SCALE IN FEET

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Peralte-Clark LLC

USER NAME = mike.thon	DESIGNED - MJJ	REVISED -	
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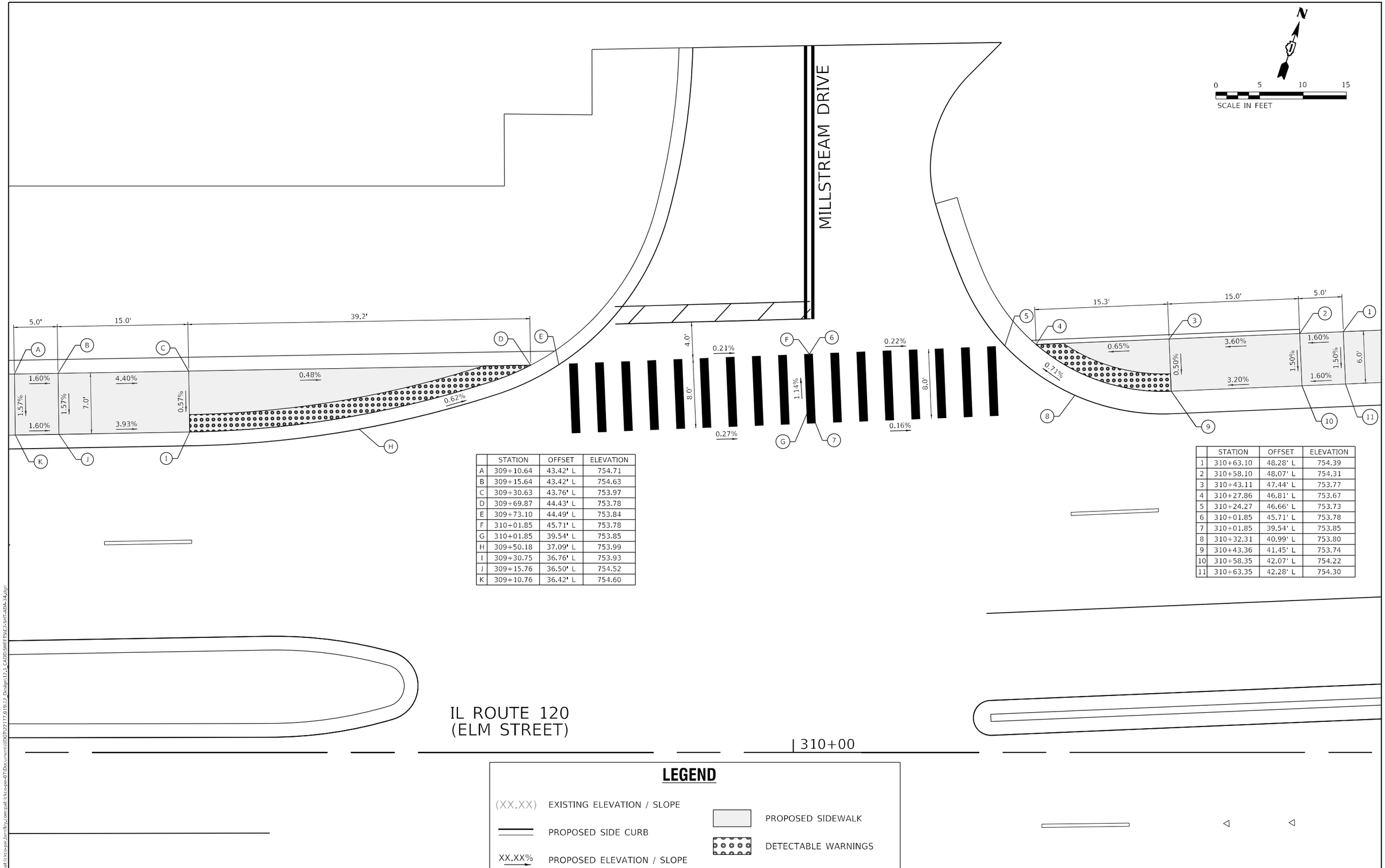
PLOT DATE = 2/2/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS – SE AND SW CORNERS
ILLINOIS ROUTE 120 /DRIVEWAY STA. 296+86.00

SCALE: 1"=5' | SHEET 33 OF 35 SHEETS | STA. 296+86.00 TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	203
		CONTRACT NO. 62U72		
	ILLINOIS	FED. AID PROJECT		



	STATION	OFFSET	ELEVATION
A	309+10.64	43.42' L	754.71
B	309+15.64	43.42' L	754.63
C	309+30.63	43.76' L	753.97
D	309+69.87	44.43' L	753.78
E	309+73.10	44.49' L	753.84
F	310+01.85	45.71' L	753.78
G	310+01.85	39.54' L	753.85
H	309+50.18	37.09' L	753.99
I	309+30.75	36.76' L	753.93
J	309+15.76	36.50' L	754.52
K	309+10.76	36.42' L	754.60

	STATION	OFFSET	ELEVATION
1	310+63.10	48.28' L	754.39
2	310+58.10	48.07' L	754.31
3	310+43.11	47.44' L	753.77
4	310+27.86	46.81' L	753.67
5	310+24.27	46.66' L	753.73
6	310+01.85	45.71' L	753.78
7	310+01.85	39.54' L	753.85
8	310+32.31	40.99' L	753.80
9	310+43.36	41.45' L	753.74
10	310+58.35	42.07' L	754.22
11	310+63.35	42.28' L	754.30

LEGEND

(XX.XX) EXISTING ELEVATION / SLOPE

PROPOSED SIDE CURB

XX.XX% PROPOSED ELEVATION / SLOPE

PROPOSED SIDEWALK

DETECTABLE WARNINGS

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Peralte-Clark LLC

USER NAME = mike.thon	DESIGNED - MJJ	REVISED -	
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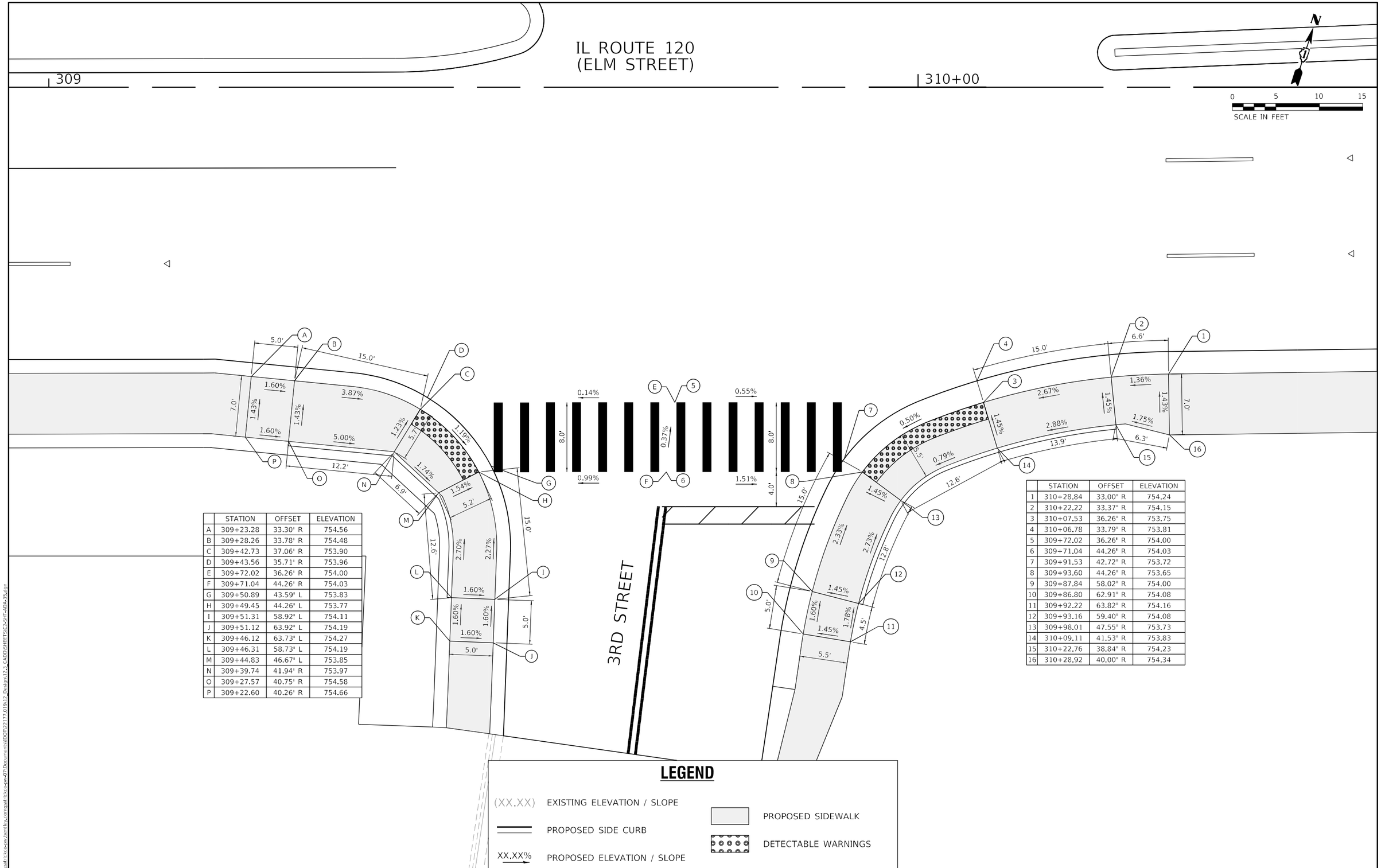
PLOT DATE = 2/2/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS – NE AND NW CORNERS
ILLINOIS ROUTE 31 /MILLSTREAM DRIVE

SCALE: 1"=5' | SHEET 34 OF 35 SHEETS | STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	204
		CONTRACT NO. 62U72		
		ILLINOIS FED. AID PROJECT		



	STATION	OFFSET	ELEVATION
A	309+23.28	33.30' R	754.56
B	309+28.26	33.78' R	754.48
C	309+42.73	37.06' R	753.90
D	309+43.56	35.71' R	753.96
E	309+72.02	36.26' R	754.00
F	309+71.04	44.26' R	754.03
G	309+50.89	43.59' L	753.83
H	309+49.45	44.26' L	753.77
I	309+51.31	58.92' L	754.11
J	309+51.12	63.92' L	754.19
K	309+46.12	63.73' L	754.27
L	309+46.31	58.73' L	754.19
M	309+44.83	46.67' L	753.85
N	309+39.74	41.94' R	753.97
O	309+27.57	40.75' R	754.58
P	309+22.60	40.26' R	754.66

	STATION	OFFSET	ELEVATION
1	310+28.84	33.00' R	754.24
2	310+22.22	33.37' R	754.15
3	310+07.53	36.26' R	753.75
4	310+06.78	33.79' R	753.81
5	309+72.02	36.26' R	754.00
6	309+71.04	44.26' R	754.03
7	309+91.53	42.72' R	753.72
8	309+93.60	44.26' R	753.65
9	309+87.84	58.02' R	754.00
10	309+86.80	62.91' R	754.08
11	309+92.22	63.82' R	754.16
12	309+93.16	59.40' R	754.08
13	309+98.01	47.55' R	753.73
14	310+09.11	41.53' R	753.83
15	310+22.76	38.84' R	754.23
16	310+28.92	40.00' R	754.34

LEGEND

(XX.XX) EXISTING ELEVATION / SLOPE

PROPOSED SIDE CURB

XX.XX% PROPOSED ELEVATION / SLOPE

PROPOSED SIDEWALK

DETECTABLE WARNINGS

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Peralte-Clark LLC

USER NAME = mike.thon	DESIGNED - MJJ	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS – SE AND SW CORNERS
ILLINOIS ROUTE 31 /3RD STREET

SCALE: 1"=5' | SHEET 35 OF 35 SHEETS | STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	205

CONTRACT NO. 62U72

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/EXITS 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
- TD — TEMPORARY DITCH
- DITCH FLOW
- DB — DEWATERING BASIN
- ROCK DITCH CHECK
- SEDIMENT TRAP
- EROSION CONTROL BLANKET WITH TEMPORARY EROSION CONTROL SEEDING
- WOUS (IMPACTED)
- WETLAND (IMPACTED)
- TEMPORARY PAVEMENT (SEE SUGGESTED MAINTENENCE OF TRAFFIC PLANS)
- — XXX — XXX — WORK ZONE
- OVERLAND FLOW
- A — WETLAND INTRUSION AREA
  "WETLAND - NO INTRUSION" SIGN 6'X3"
- INLET PROTECTION
- — XXX — TEMPORARY FENCE

* SHADED PATTERNS AND LINESTYLES 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.

MODEL: $MODELNAME$
FILE NAME: $FILEL$

TransLand Engineering Group

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	DRAWN - TRANS	REVISED -
PLOT SCALE = $SCALE$	CHECKED - YS	REVISED -
PLOT DATE = $DATE$	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL GENERAL NOTES AND LEGEND

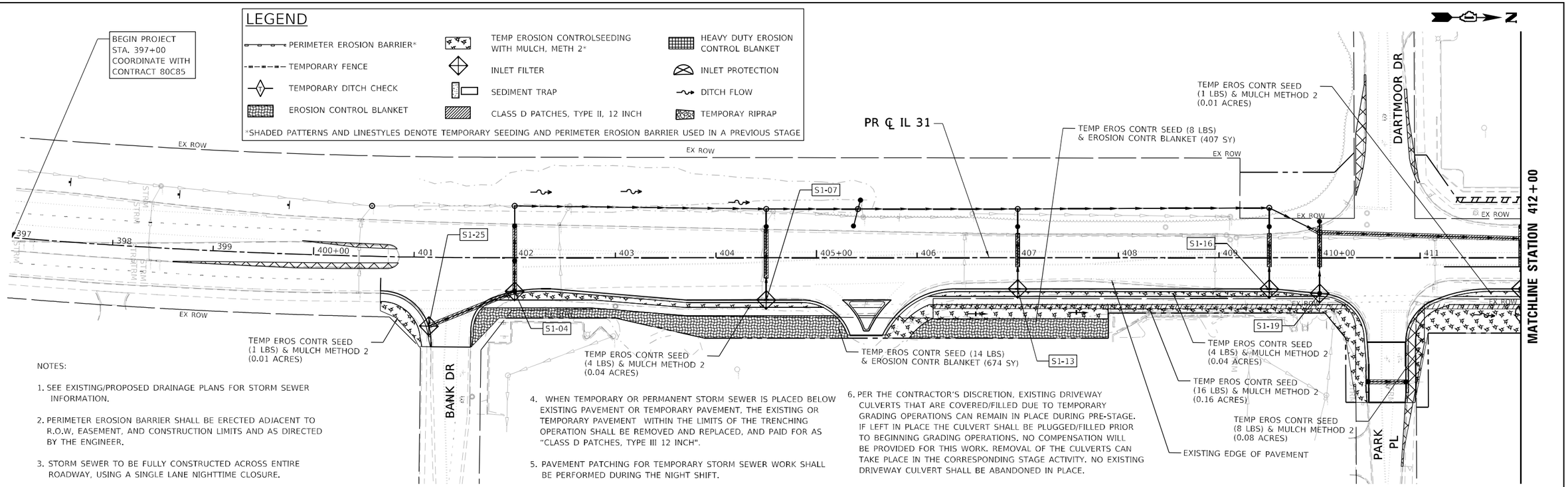
SCALE: NTS | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	206
		CONTRACT NO. 62U72		
	ILLINOIS FED. AID PROJECT			

LEGEND

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

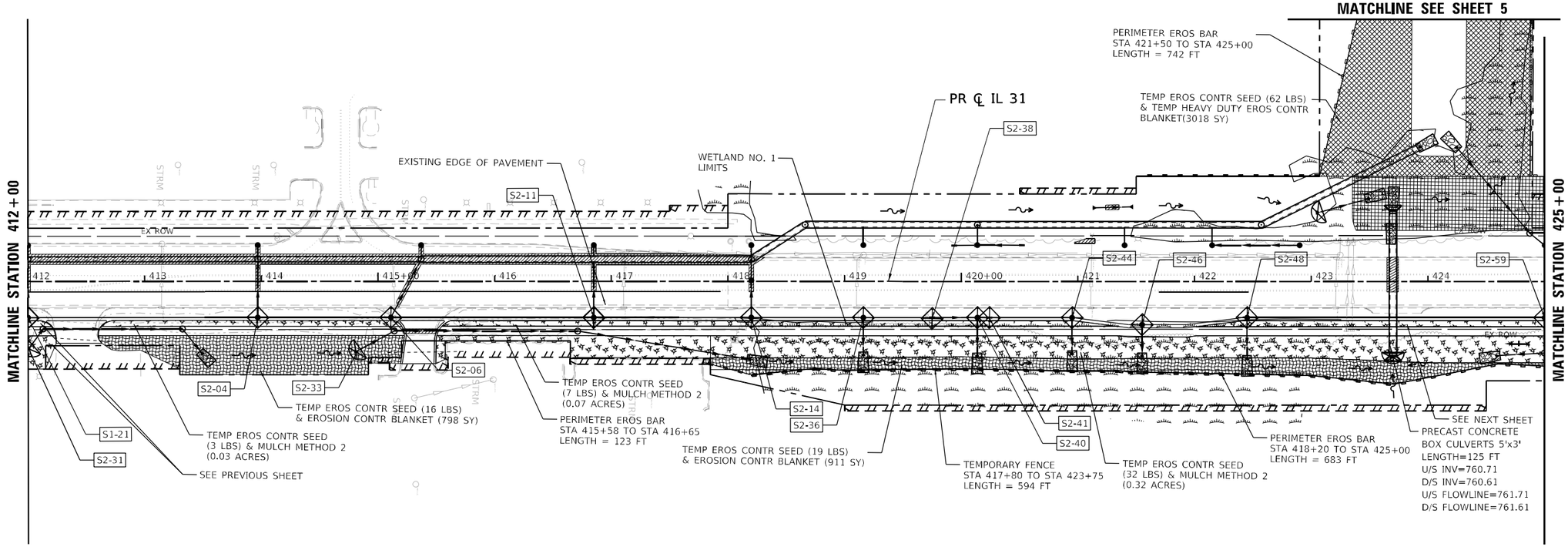
*SHADED PATTERNS AND LINESTYLES DENOTE TEMPORARY SEEDING AND PERIMETER EROSION BARRIER USED IN A PREVIOUS STAGE



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. 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.

MATCHLINE SEE SHEET 5



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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 5 SHEETS | STA. 399+00 TO STA. 425+00

F.A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	207
		CONTRACT NO. 62U72		
	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.
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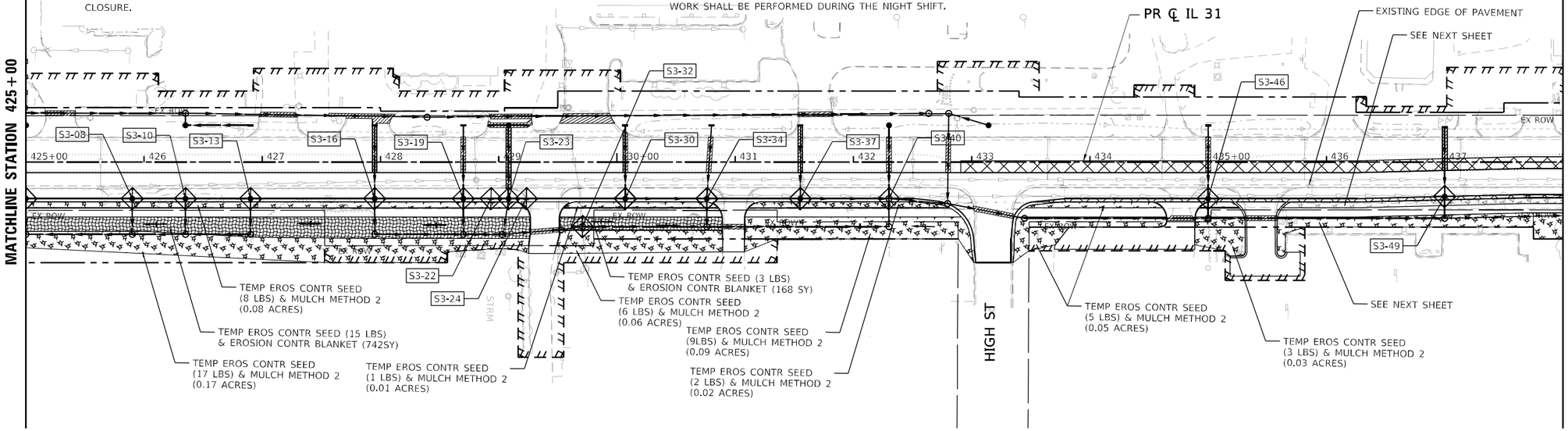

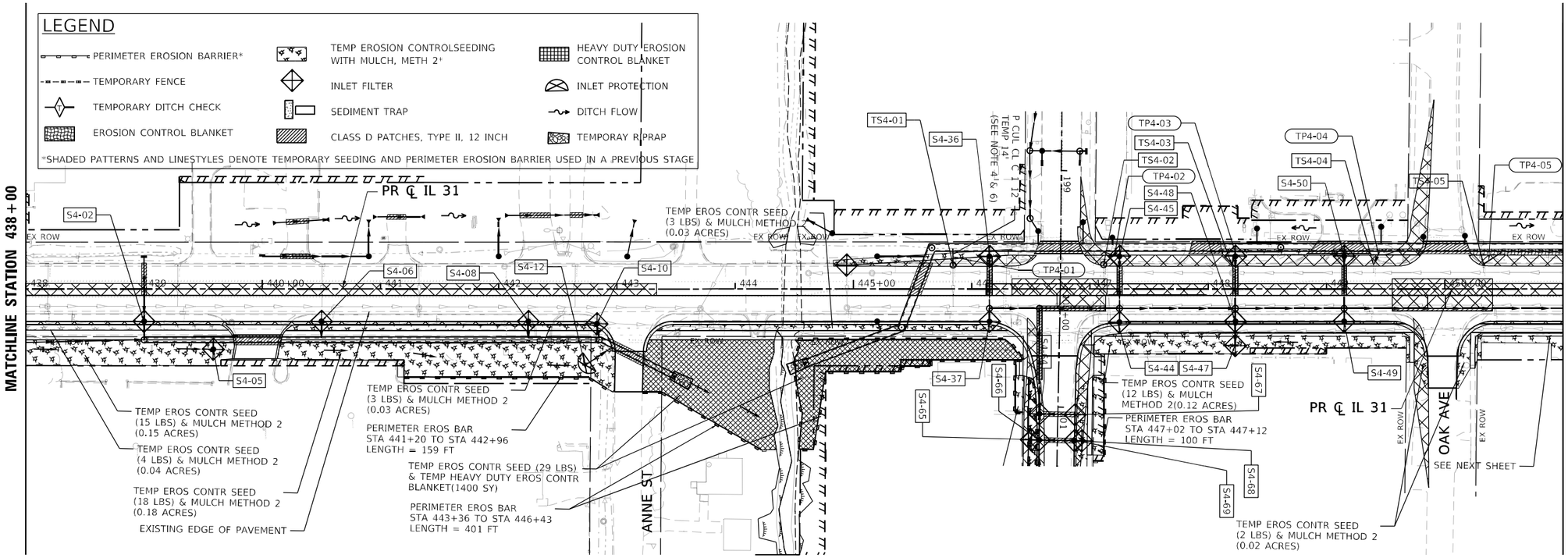

TransLand Engineering Group

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PLOT DATE = 2/26/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 1 PLAN
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 2 OF 5 SHEETS | STA. 425+00 TO STA. 451+00

F.A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	208
		CONTRACT NO. 62U72		
	ILLINOIS FED. AID PROJECT			

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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.
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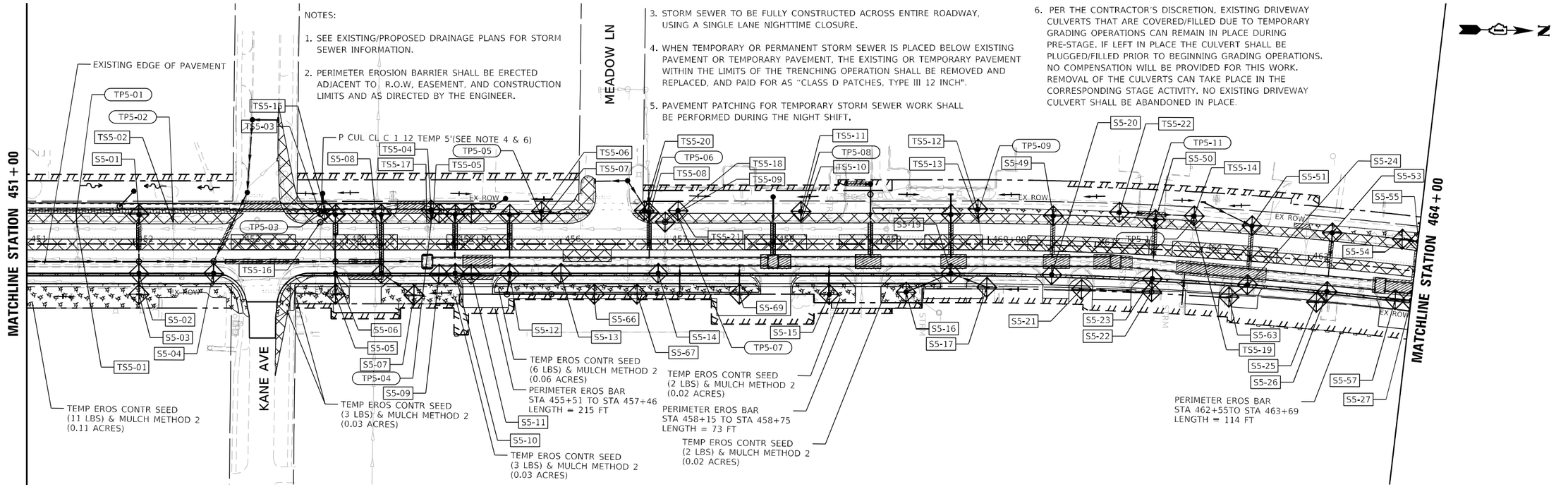
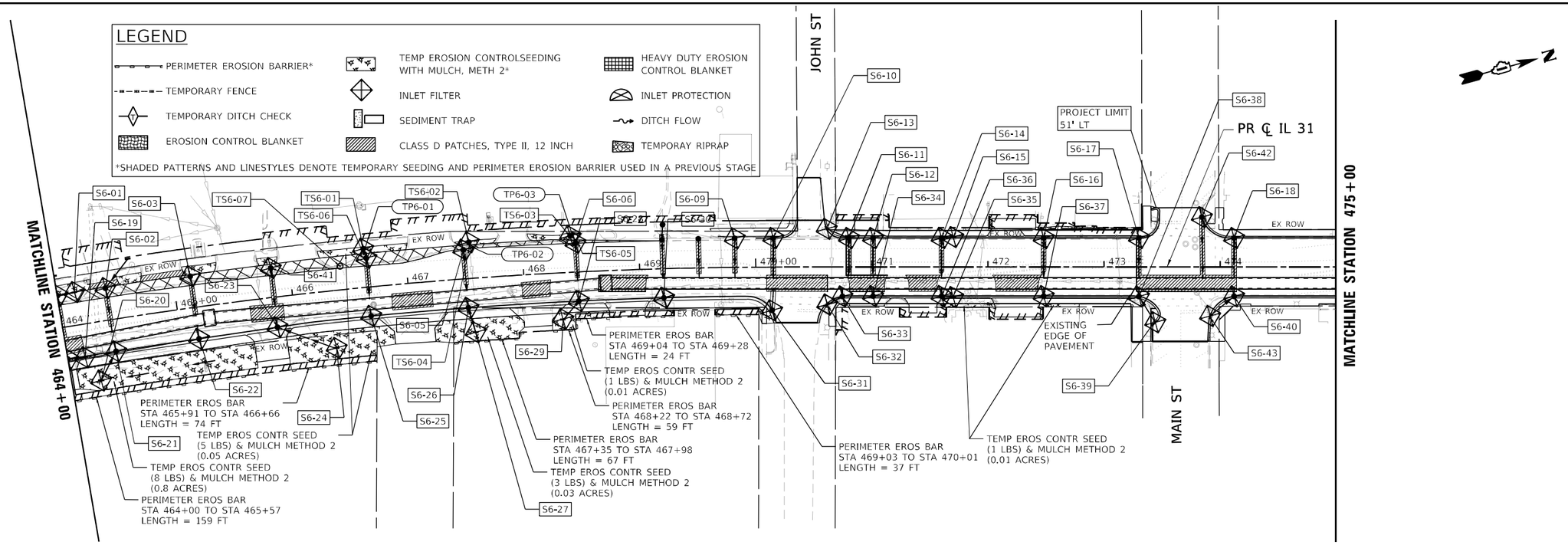
5. PAVEMENT PATCHING FOR TEMPORARY STORM SEWER WORK SHALL BE PERFORMED DURING THE NIGHT SHIFT.
6. PER THE CONTRACTOR'S DISCRETION, EXISTING DRIVEWAY CULVERTS THAT ARE COVERED/FILLED DUE TO TEMPORARY GRADING OPERATIONS CAN REMAIN IN PLACE DURING PRE-STAGE. IF LEFT IN PLACE THE CULVERT SHALL BE PLUGGED/FILLED 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.





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	PLOT DATE = 2/26/2026	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 1 PLAN
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 3 OF 5 SHEETS | STA. 451+00 TO STA. 475+00

F.A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	209
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

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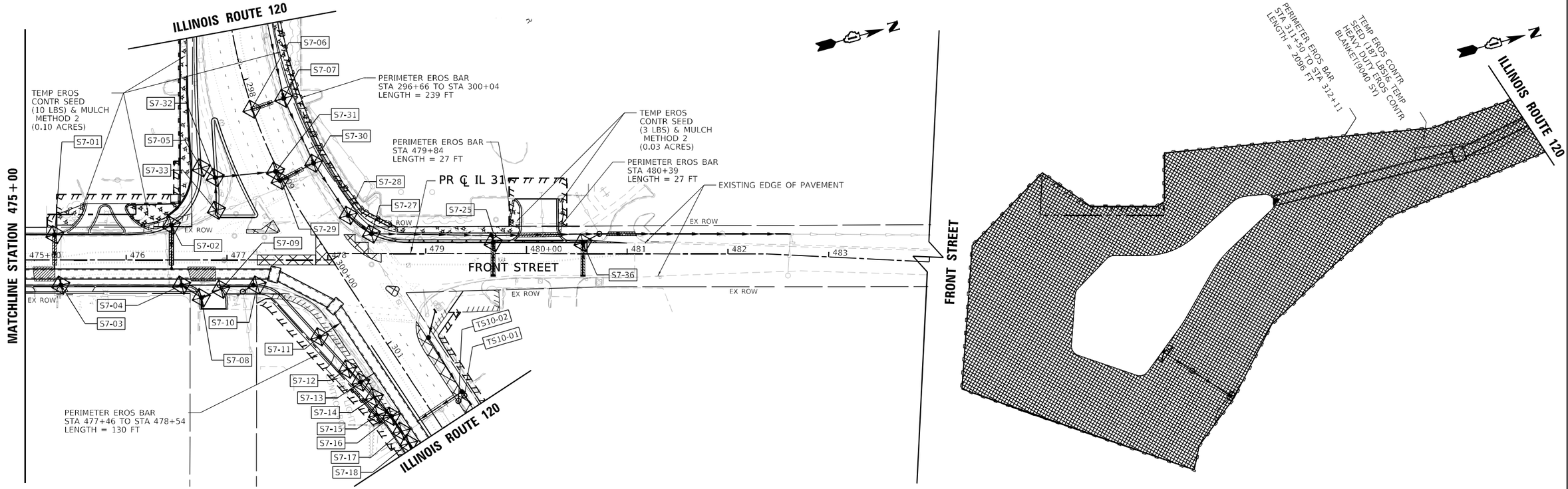

LEGEND

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

*SHADED PATTERNS AND LINESTYLES 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.
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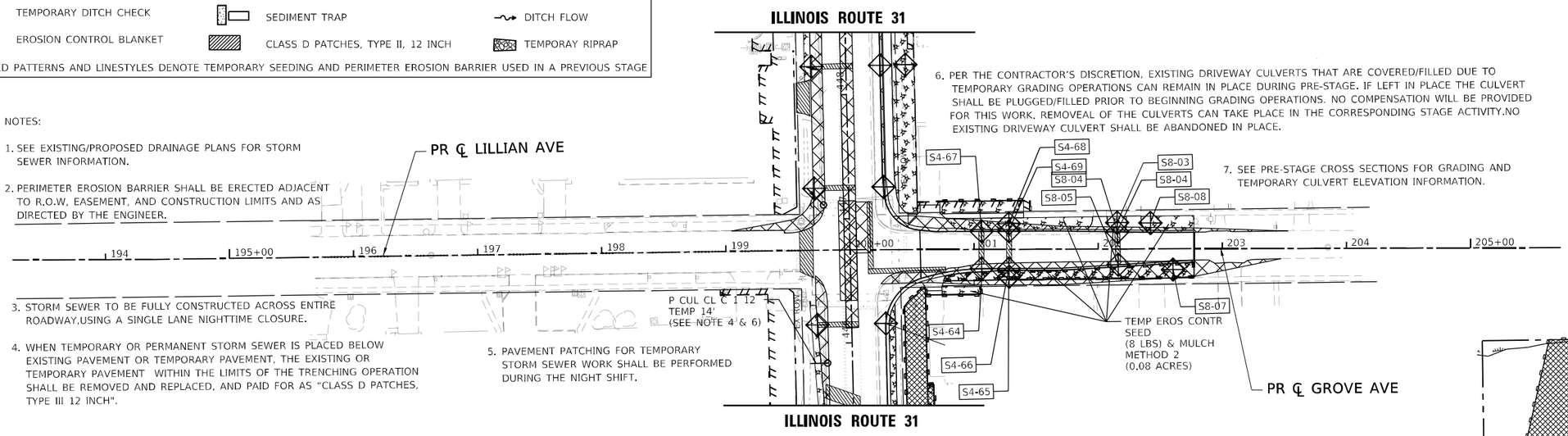
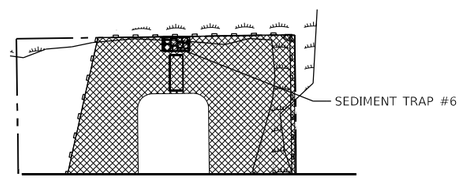
7. SEE PRE-STAGE CROSS SECTIONS FOR GRADING AND TEMPORARY CULVERT ELEVATION INFORMATION.





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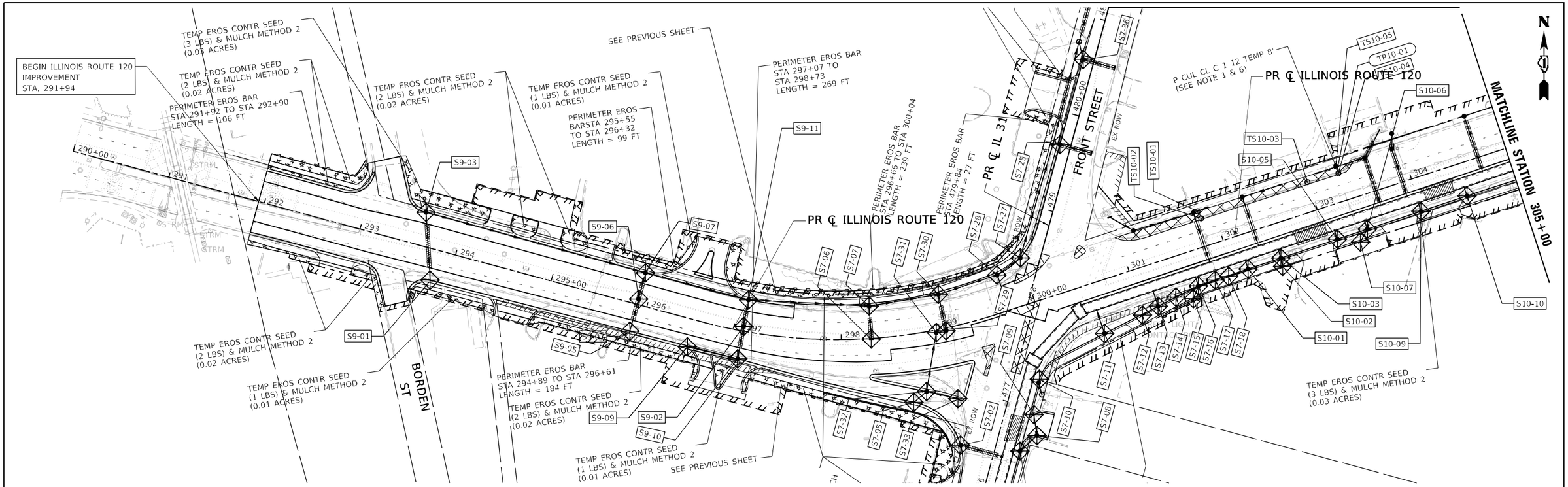
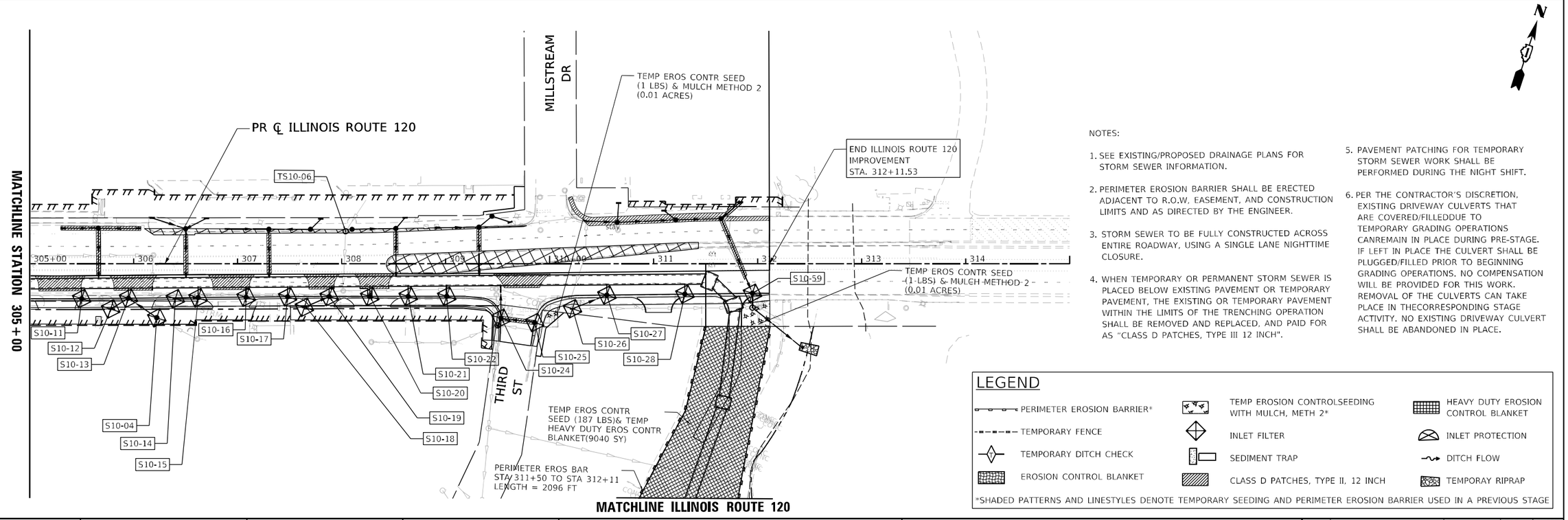
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 1 PLAN
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 4 OF 5 SHEETS | STA. 475+00 TO STA. 484+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	210
		CONTRACT NO. 62U72		
	ILLINOIS	FED. AID PROJECT		





NOTES:

1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
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LEGEND

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

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

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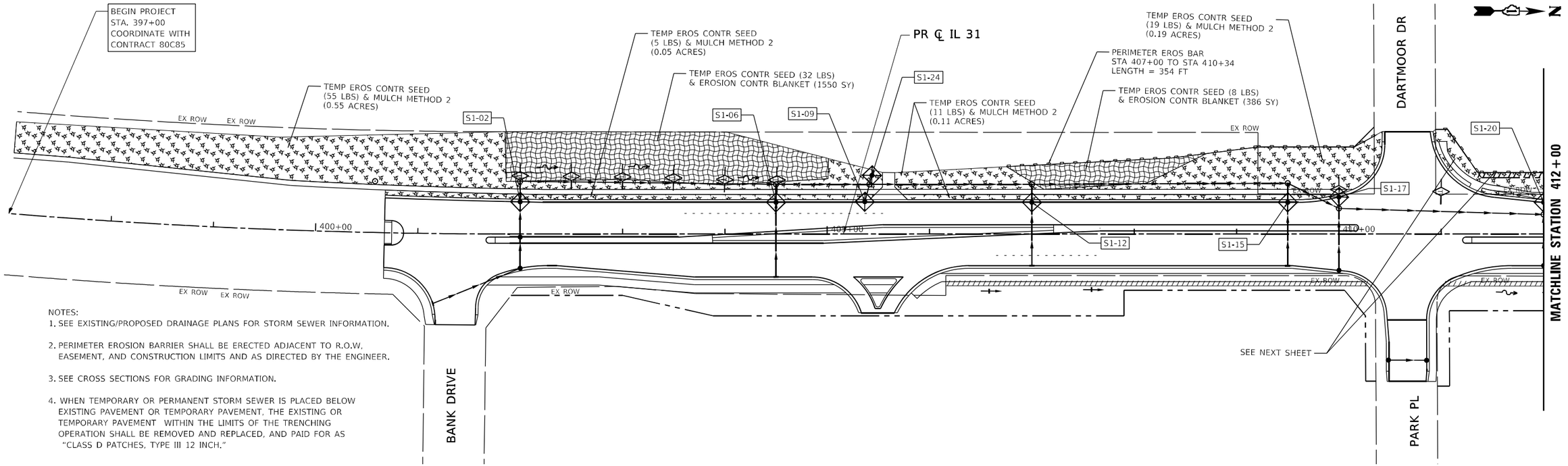
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 1 PLAN
ILLINOIS ROUTE 120

SCALE: 1"=50' | SHEET 5 OF 5 SHEETS | STA. 289+00 | TO STA. 314+00

F.A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	211
		CONTRACT NO. 62U72		
	ILLINOIS FED. AID PROJECT			



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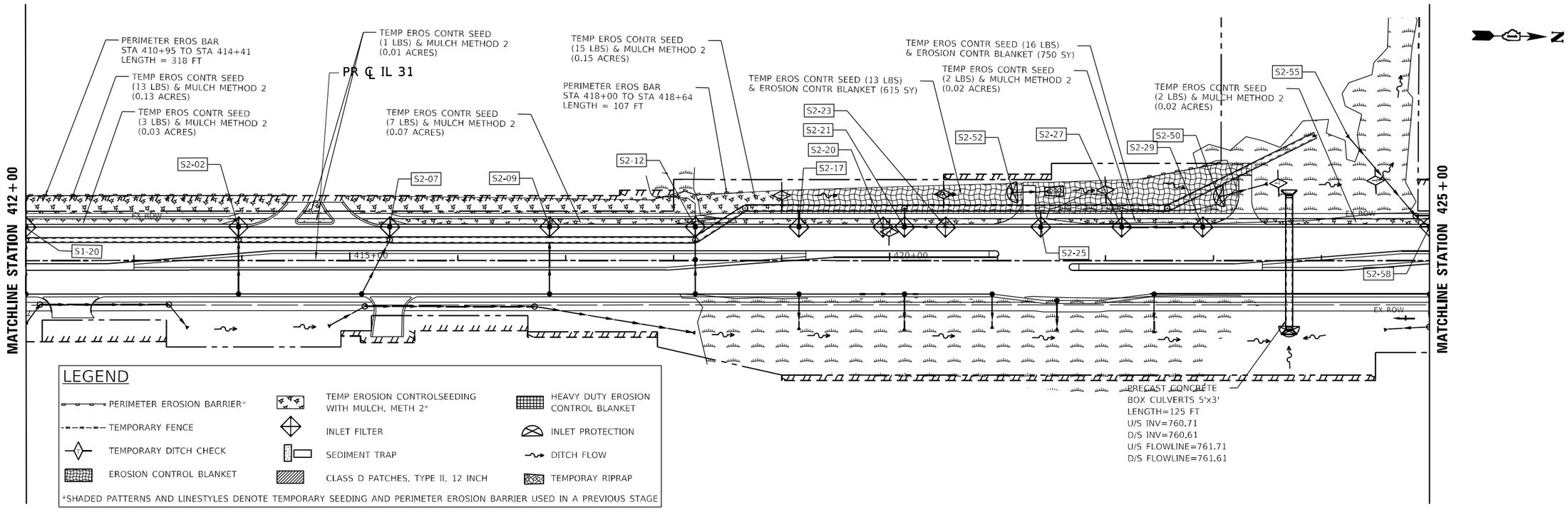
4. WHEN TEMPORARY OR PERMANENT STORM SEWER IS PLACED BELOW EXISTING PAVEMENT OR TEMPORARY PAVEMENT, THE EXISTING OR TEMPORARY PAVEMENT WITHIN THE LIMITS OF THE TRENCHING OPERATION SHALL BE REMOVED AND REPLACED, AND PAID FOR AS "CLASS D PATCHES, TYPE III 12 INCH."



PRECAST CONCRETE
BOX CULVERTS 5'x3'
LENGTH=125 FT
U/S INV=760.71
D/S INV=760.61
U/S FLOWLINE=761.71
D/S FLOWLINE=761.61

LEGEND

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

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

TransLand Engineering Group

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PLOT DATE = 2/26/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 2 PLAN
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 1 OF 6 SHEETS | STA. 399+00 TO STA. 425+00

F.A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	212
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

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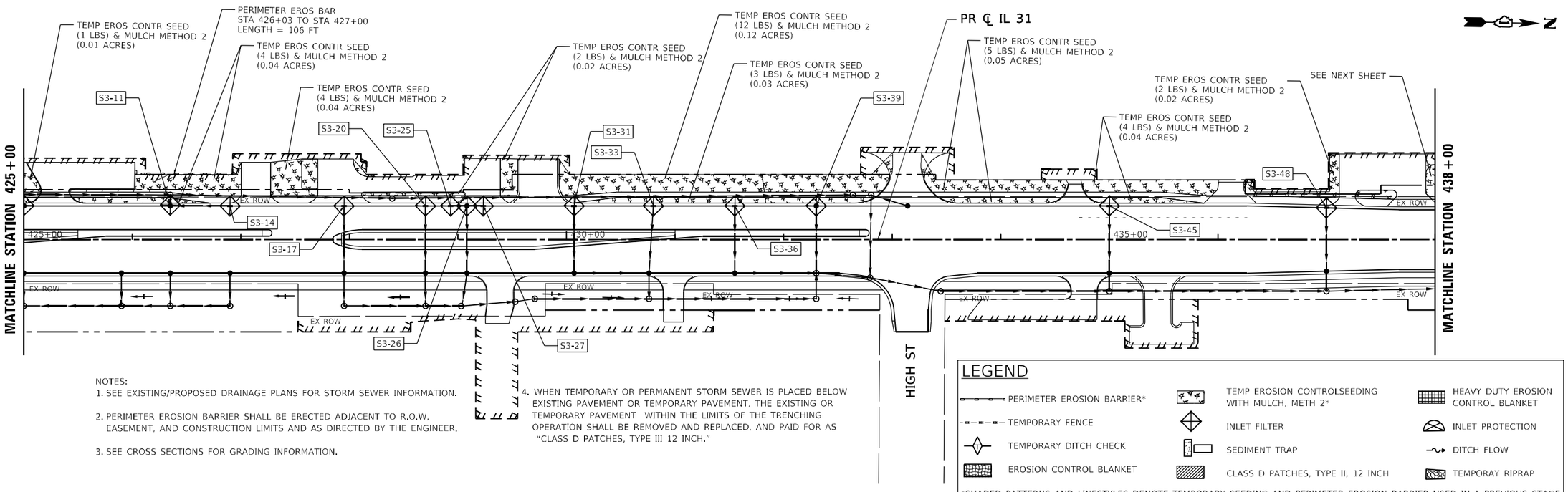

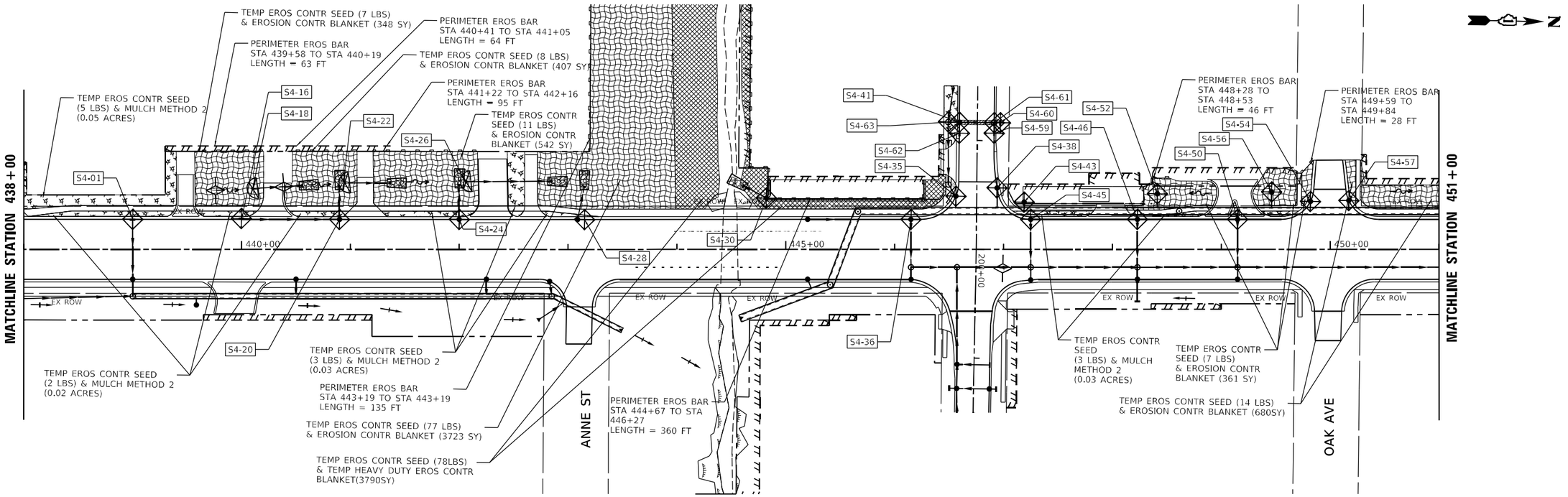

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		DRAWN - TRANS	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - YS	REVISED -
	PLOT DATE = 2/26/2026	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 2 PLAN
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 2 OF 6 SHEETS | STA. 425+00 TO STA. 451+00

F.A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	213
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

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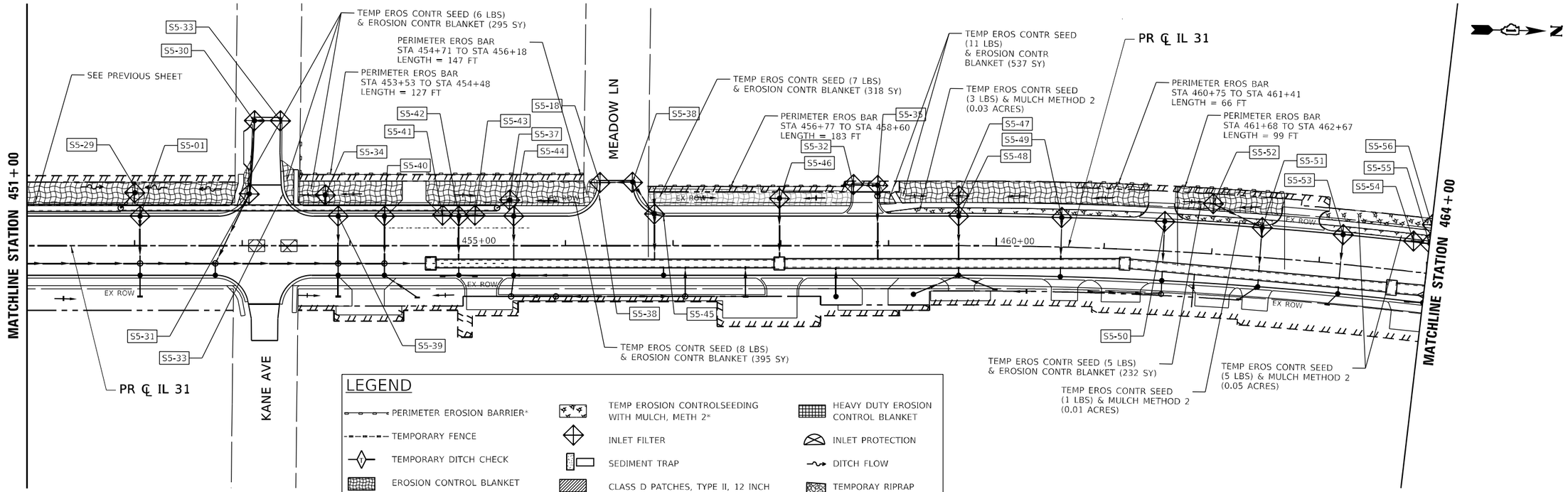
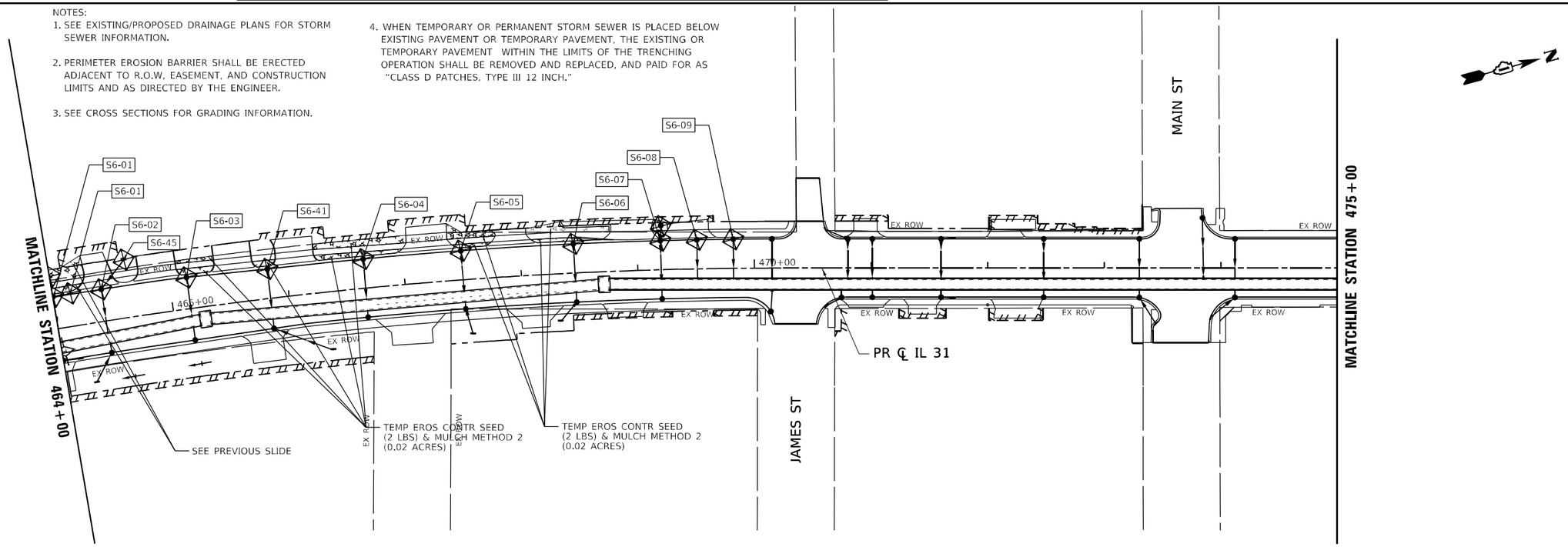


NOTES:

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."



TransLand Engineering Group	USER NAME = ysafo	DESIGNED - TRANS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL STAGE 2 PLAN ILLINOIS ROUTE 31
		DRAWN - TRANS	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - YS	REVISED -		SCALE: 1"=50' | SHEET 3 OF 6 SHEETS | STA. 451+00 TO STA. 475+00
	PLOT DATE = 2/26/2026	DATE - 04/30/2024	REVISED -		

F.A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	214
		CONTRACT NO. 62U72		
	ILLINOIS	FED. AID PROJECT		

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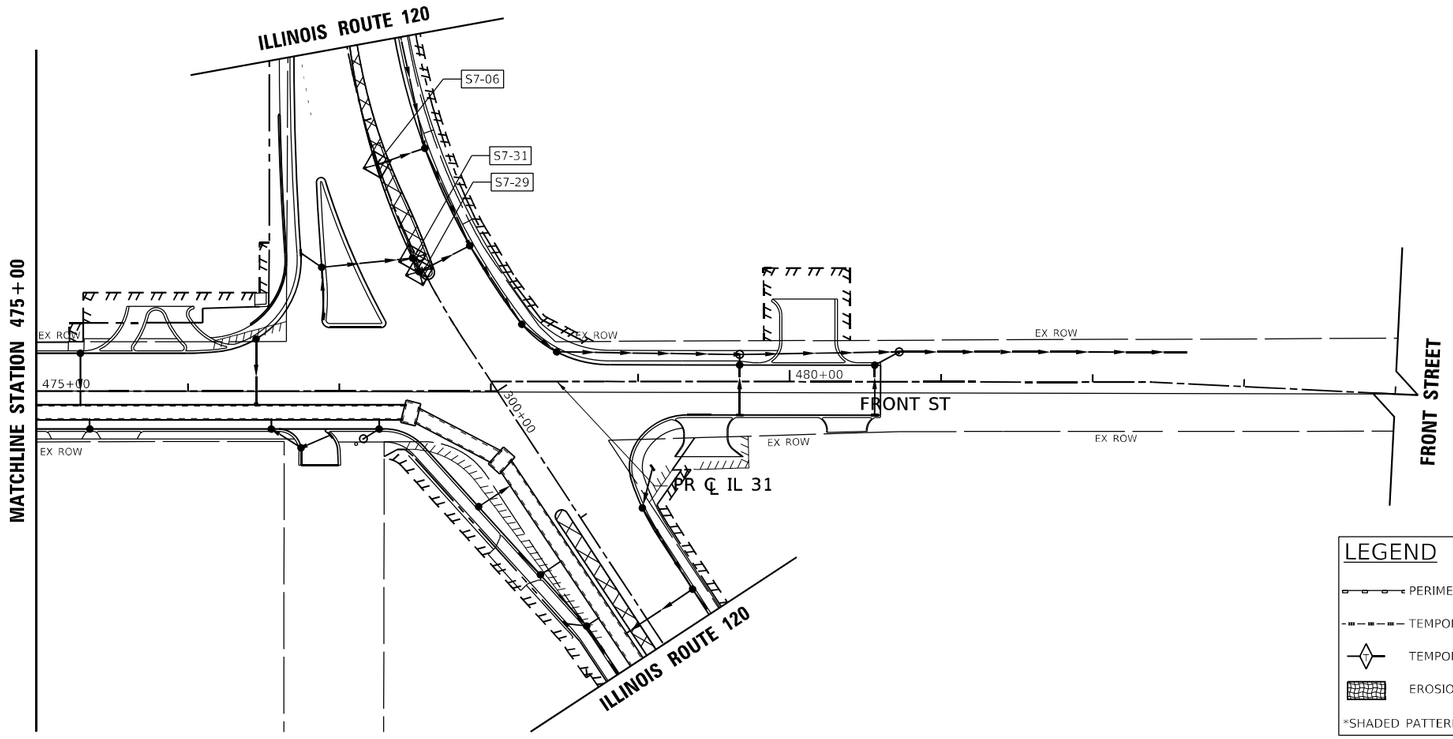
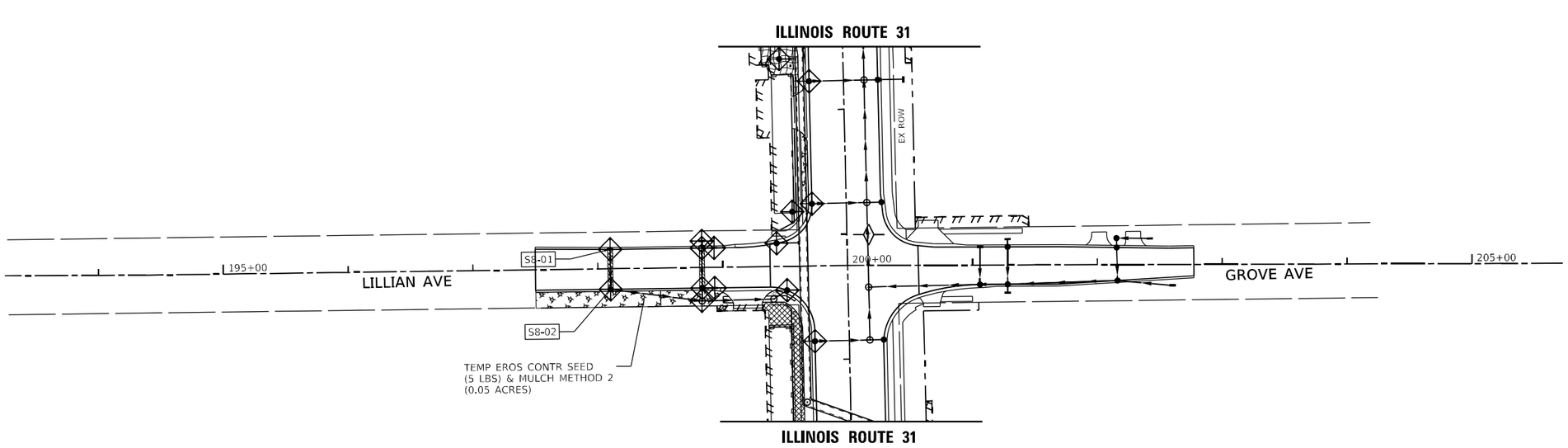


NOTES:
1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
3. SEE CROSS SECTIONS FOR GRADING INFORMATION.
4. WHEN TEMPORARY OR PERMANENT STORM SEWER IS 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(SPECIAL)."

LEGEND

PERIMETER EROSION BARRIER*	TEMP EROSION CONTROLSEEDING 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	TEMPORAY RIPRAP

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



ILLIAN AVENUE

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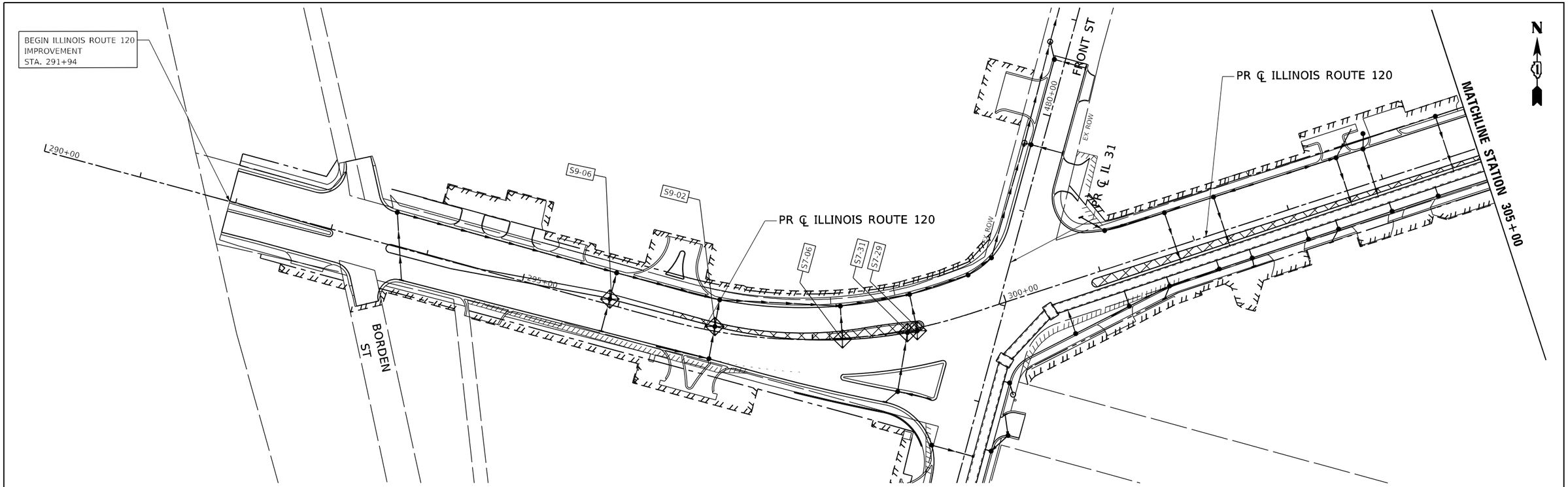
TransLand Engineering Group	USER NAME = ysafo	DESIGNED - TRANS	REVISED -
		DRAWN - TRANS	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - YS	REVISED -
	PLOT DATE = 2/26/2026	DATE - 04/30/2024	REVISED -

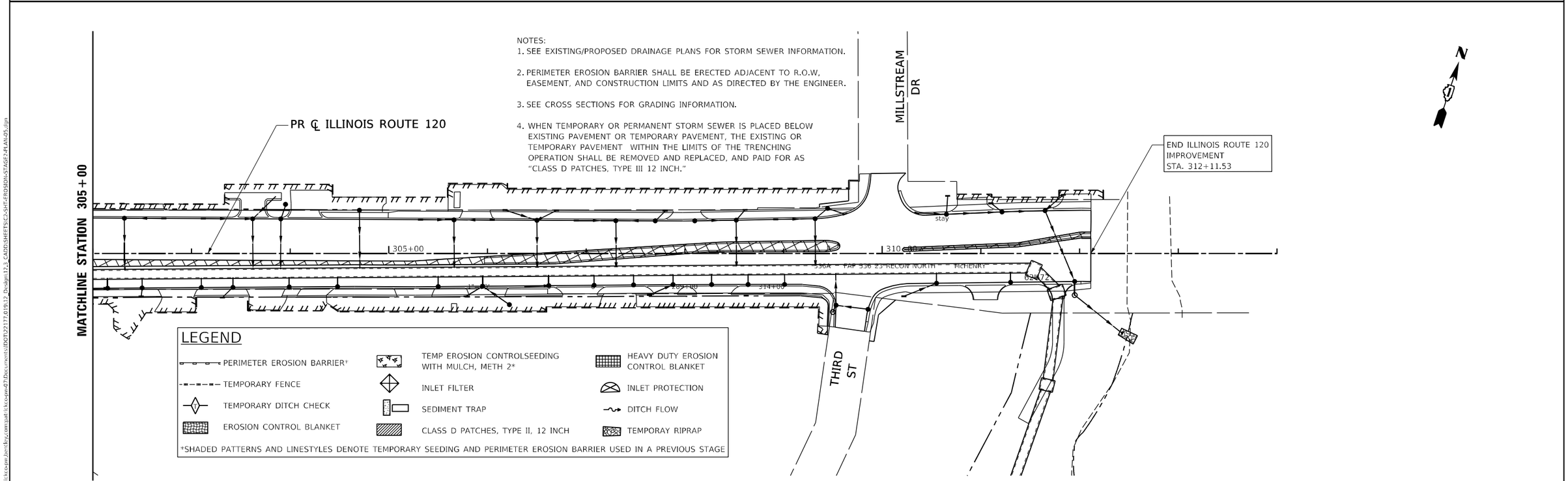
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 2 PLAN
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 4 OF 6 SHEETS | STA. 475+00 TO STA. 484+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	215
		CONTRACT NO. 62U72		
		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 CONTROLSEEDING 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	TEMPORAY RIPRAP

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

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TransLand Engineering Group

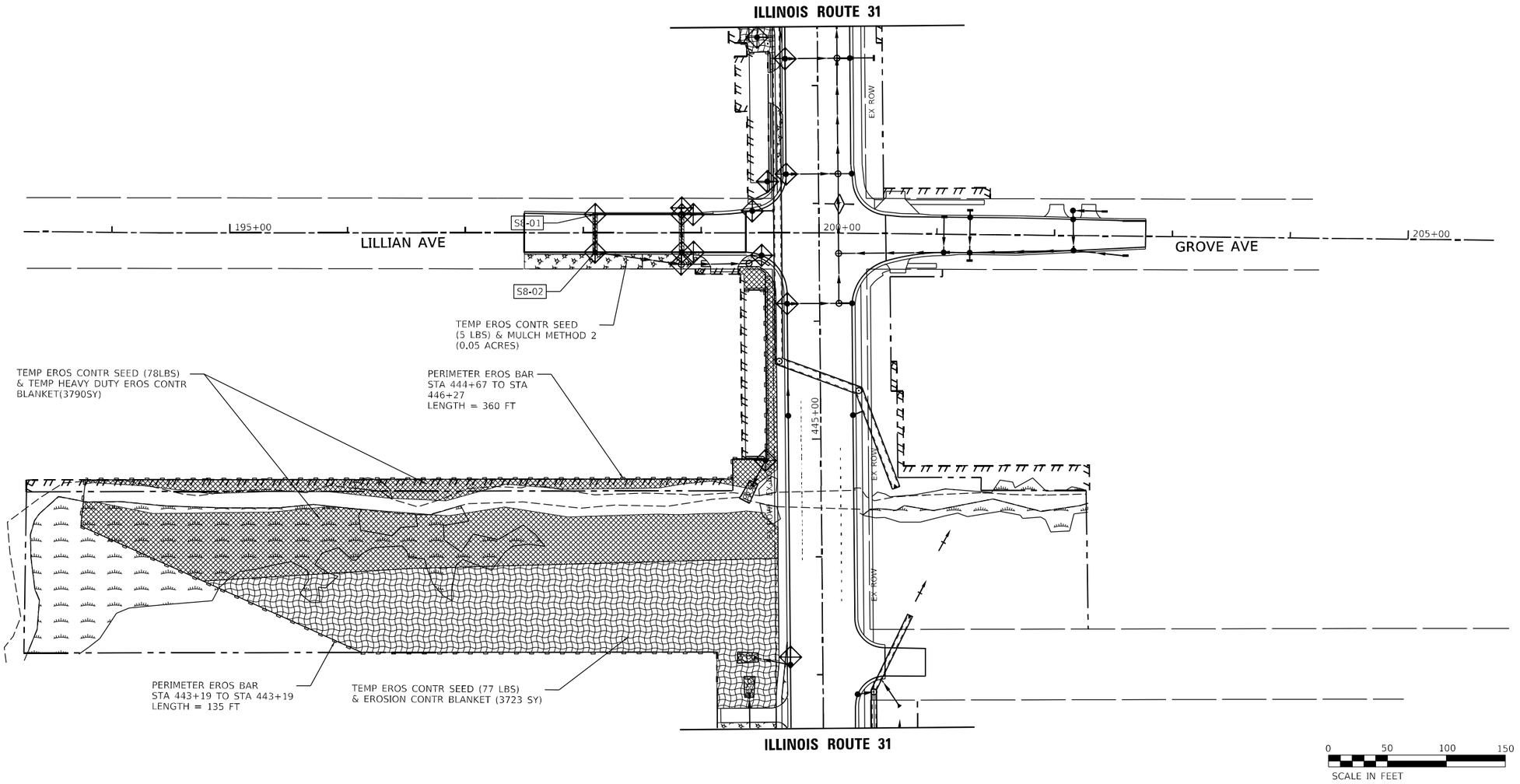
USER NAME = ysafo	DESIGNED - TRANS	REVISED -	
	DRAWN - TRANS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - YS	REVISED -	
PLOT DATE = 2/26/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 2 PLAN
ILLINOIS ROUTE 120

SCALE: 1"=50' | SHEET 5 OF 6 SHEETS | STA. 289+00 TO STA. 314+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	216
		CONTRACT NO. 62U72		
		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
- HEAVY DUTY EROSION CONTROL BLANKET
- INLET PROTECTION
- DITCH FLOW
- TEMPORAY RIPRAP

*SHADED PATTERNS AND LINESTYLES 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(SPECIAL)."

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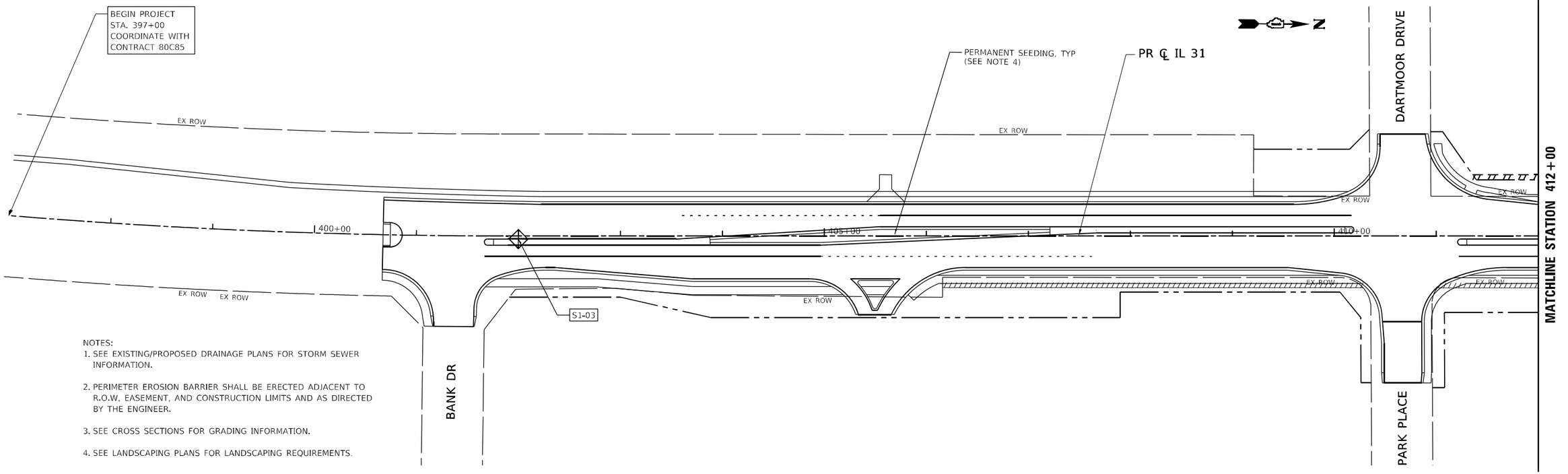
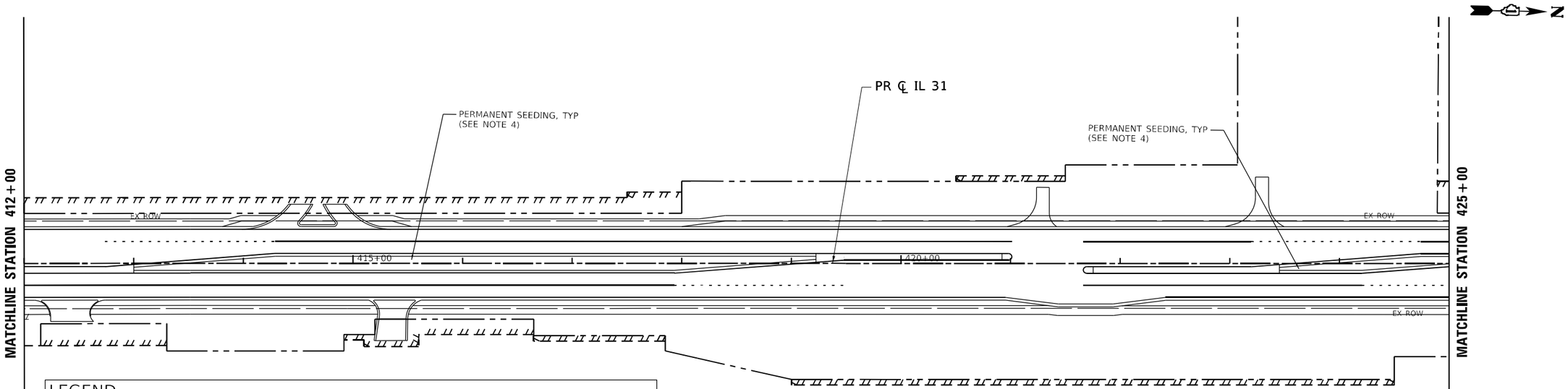
TransLand Engineering Group	USER NAME = ysafo	DESIGNED - TRANS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL STAGE 2 PLAN LILLIAN AVENUE AND GROVE AVENUE	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - TRANS	REVISED -			336A	FAP 336 23 RECON NORTH	McHENRY	575	217
	PLOT SCALE = 100.0000 ' / in.	CHECKED - TRANS	REVISED -					CONTRACT NO. 62U72		
	PLOT DATE = 2/26/2026	DATE -	REVISED -		SCALE: 1"=50' SHEET 6 OF 6 SHEETS STA. TO STA.		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 CONTROLSEEDING 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	TEMPORAY RIPRAP

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

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TransLand Engineering Group

USER NAME = ysafo	DESIGNED - TRANS	REVISED -	
	DRAWN - TRANS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - YS	REVISED -	
PLOT DATE = 2/26/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 3 PLAN
ILLINOIS ROUTE 31

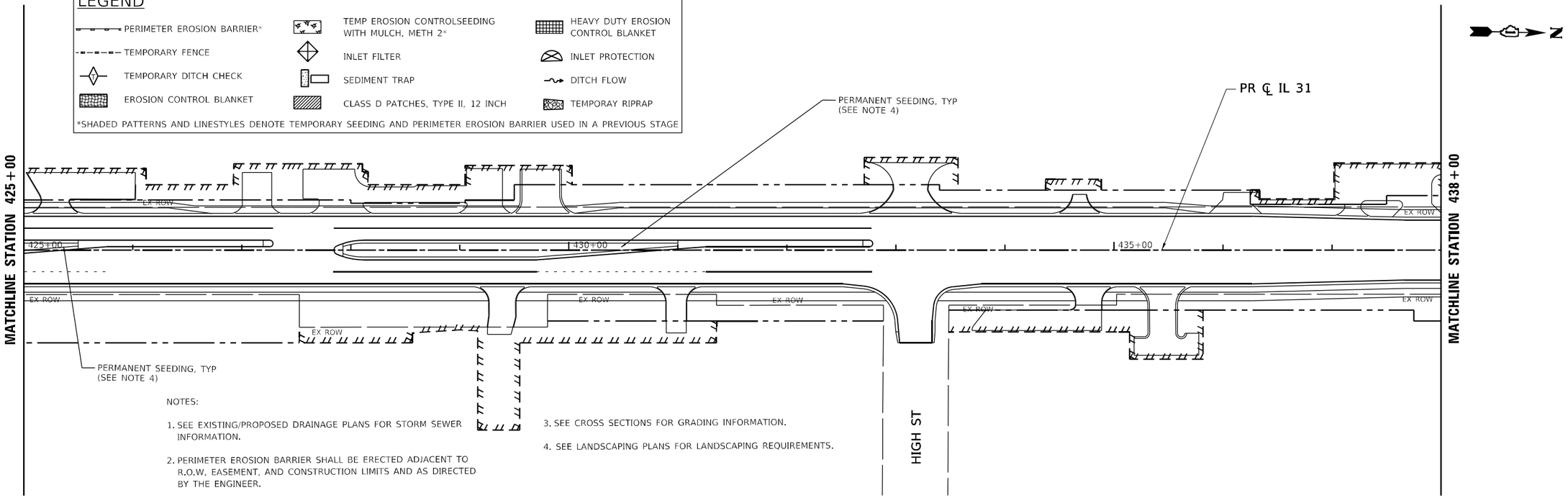
SCALE: 1"=50' | SHEET 1 OF 5 SHEETS | STA. 399+00 TO STA. 425+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	218
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

LEGEND

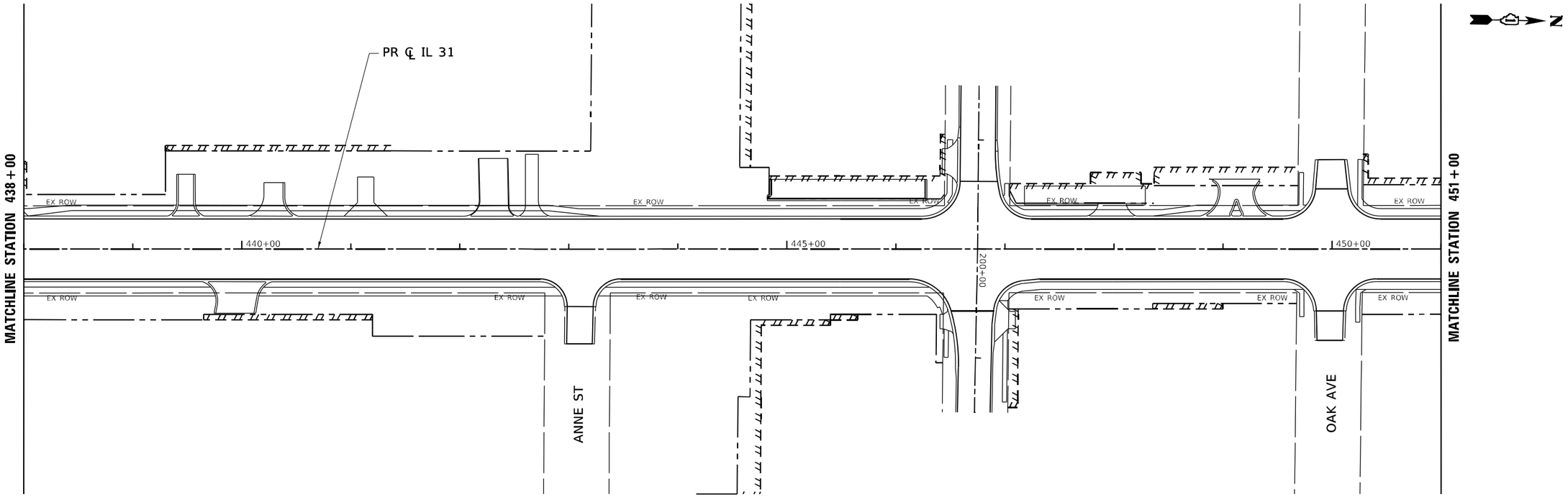
PERIMETER EROSION BARRIER*	TEMP EROSION CONTROLSEEDING WITH MULCH, METH 2*	HEAVY DUTY EROSION CONTROL BLANKET
TEMPORARY FENCE	INLET FILTER	INLET PROTECTION
TEMPORARY DITCH CHECK	SEDIMENT TRAP	DITCH FLOW
EROSION CONTROL BLANKET	CLASS D PATCHES, TYPE II, 12 INCH	TEMPORAY RIPRAP

*SHADED PATTERNS AND LINESTYLES 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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TransLand Engineering Group	USER NAME = ysafo	DESIGNED - TRANS	REVISED -
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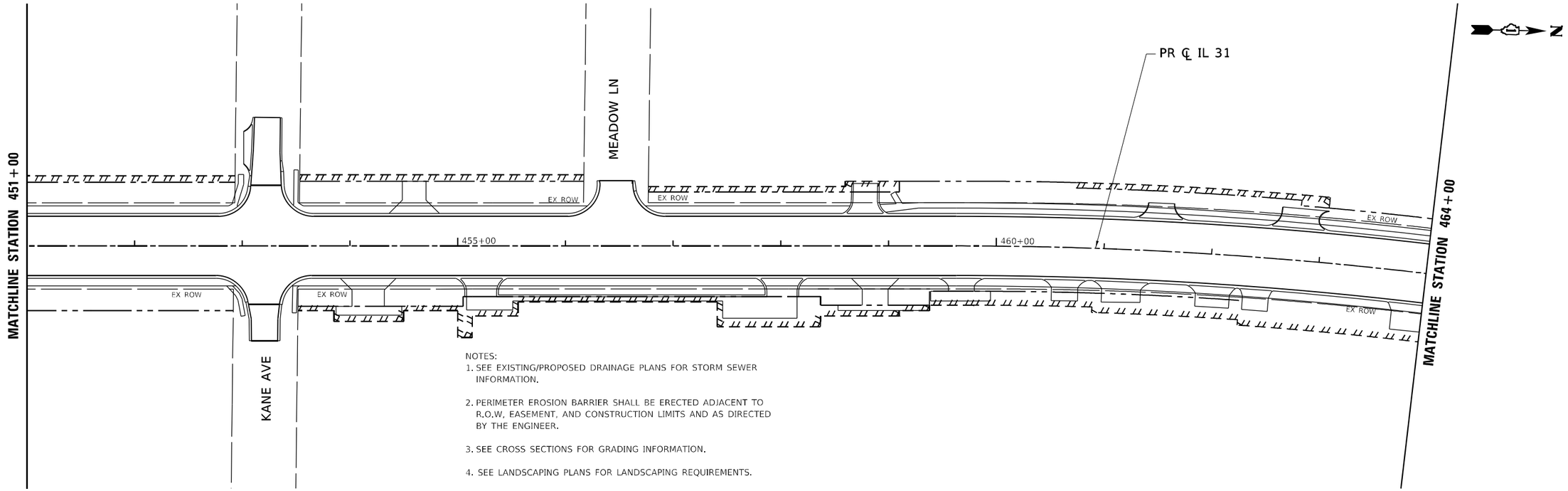
	PLOT SCALE = 100.0000 ' / in.	CHECKED - YS	REVISED -
	PLOT DATE = 2/26/2026	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 3 PLAN
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 2 OF 5 SHEETS | STA. 425+00 TO STA. 451+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	219
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

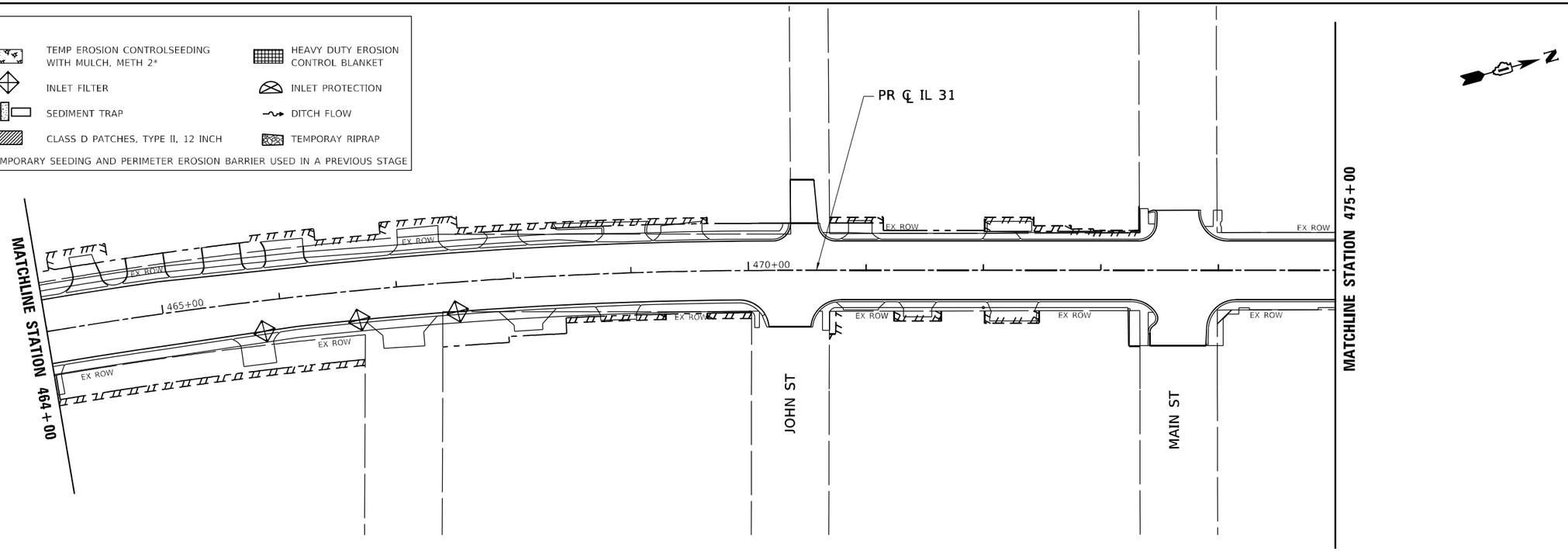


NOTES:
1. SEE EXISTING/PROPOSED DRAINAGE PLANS FOR STORM SEWER INFORMATION.
2. PERIMETER EROSION BARRIER SHALL BE ERECTED ADJACENT TO R.O.W, EASEMENT, AND CONSTRUCTION LIMITS AND AS DIRECTED BY THE ENGINEER.
3. SEE CROSS SECTIONS FOR GRADING INFORMATION.
4. SEE LANDSCAPING PLANS FOR LANDSCAPING REQUIREMENTS.

LEGEND

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

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



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TransLand Engineering Group	USER NAME = ysafo	DESIGNED - TRANS	REVISED -
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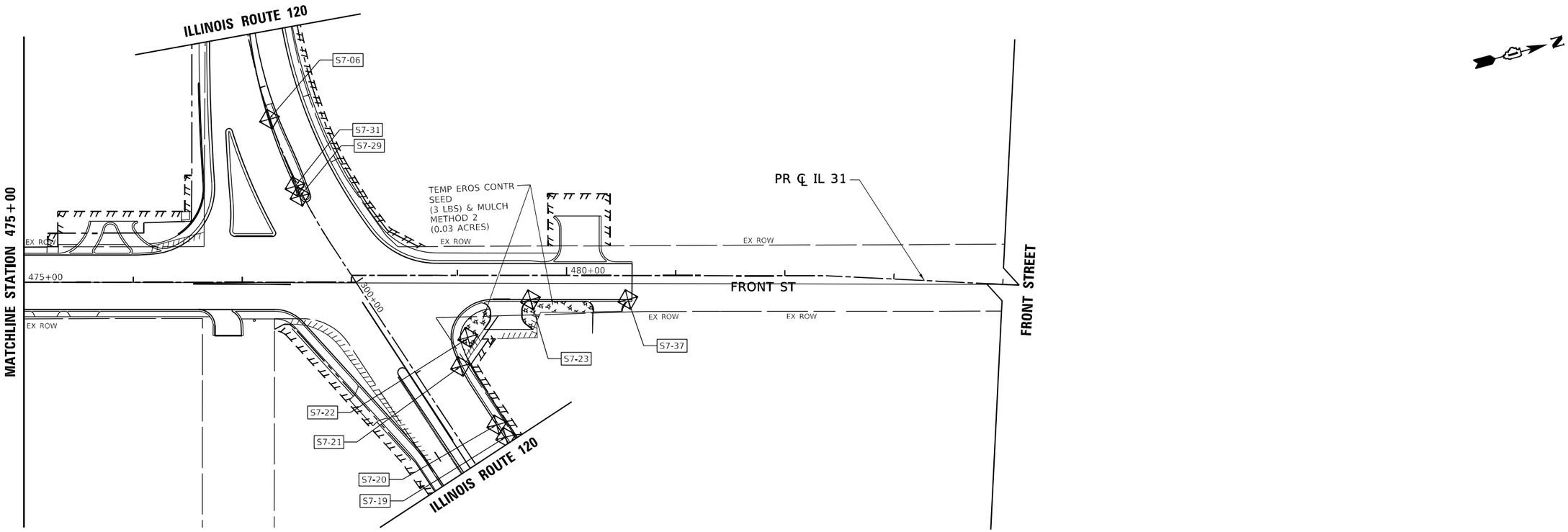
	PLOT DATE = 2/26/2026	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 3 PLAN
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 3 OF 5 SHEETS | STA. 451+00 TO STA. 475+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	220
		CONTRACT NO. 62U72		
		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.
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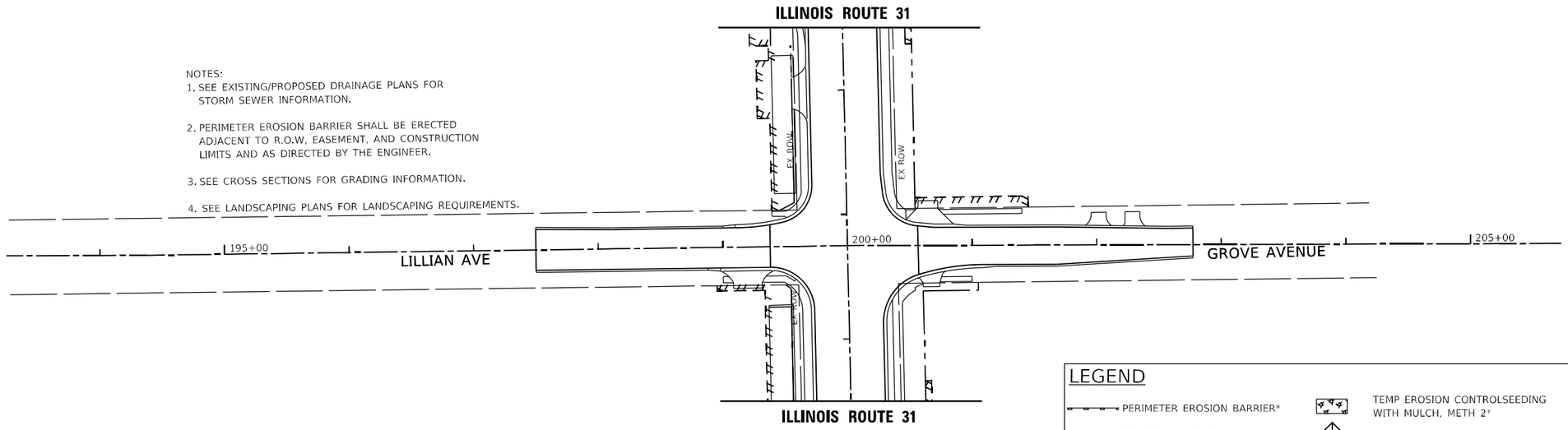
4. SEE LANDSCAPING PLANS FOR LANDSCAPING REQUIREMENTS.



ILLIAN AVENUE

LEGEND

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

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

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TransLand Engineering Group

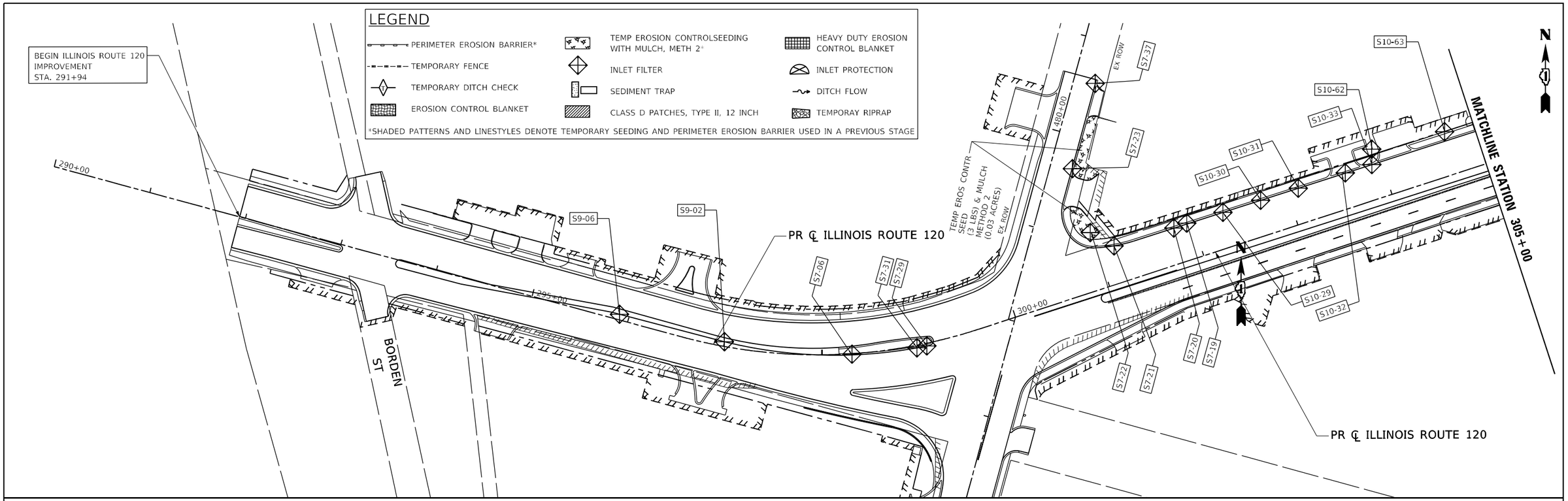
USER NAME = ysafo	DESIGNED - TRANS	REVISED -	
	DRAWN - TRANS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - YS	REVISED -	
PLOT DATE = 2/26/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL STAGE 3 PLAN
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 4 OF 5 SHEETS | STA. 475+00 TO STA. 484+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	221
		CONTRACT NO. 62U72		
		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.

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TransLand Engineering Group	USER NAME = ysafo	DESIGNED - TRANS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL STAGE 3 PLAN ILLINOIS ROUTE 120
		DRAWN - TRANS	REVISED -		
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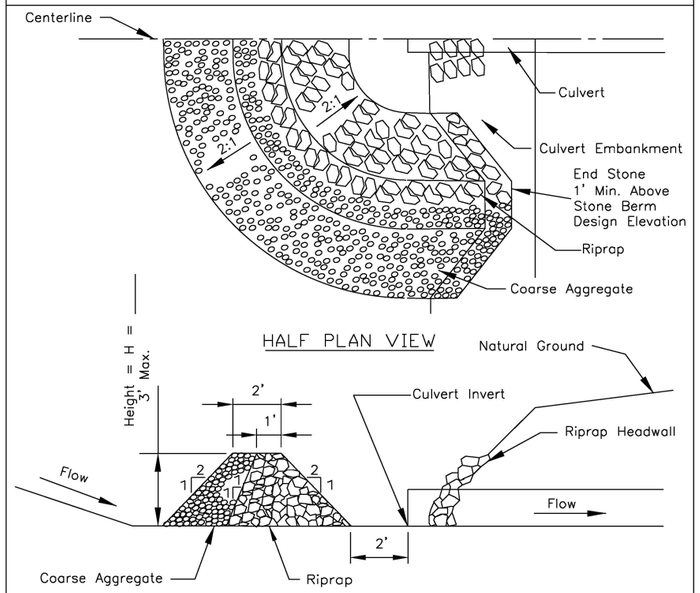
	PLOT DATE = 2/26/2026	DATE - 04/30/2024	REVISED -		SCALE: 1"=50' SHEET 5 OF 5 SHEETS STA. 289+00 TO STA. 314+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	222
		CONTRACT NO. 62U72		
		ILLINOIS FED. AID PROJECT		

CULVERT INLET PROTECTION - STONE

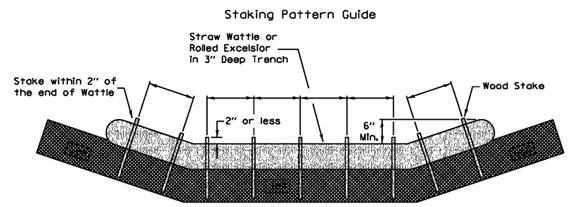


Notes:
1. Sediment shall be removed when the sediment has accumulated to one-half the height of the stone berm.
2. Coarse aggregate shall meet one of the following IDOT coarse aggregate gradations, CA-1, CA-2, CA-3 or CA-4.
3. Riprap shall meet IDOT gradation RR-3 or RR-4. Any permanent riprap, such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

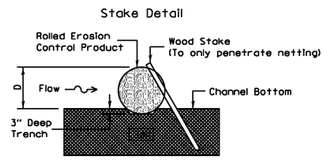
REFERENCE		STANDARD DWG. NO.
Project	NRCS Natural Resources Conservation Service	IL-508ST
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 1-29-99
Approved ____ Date ____		

NOTE:
CULVERT INLET PROTECTION SHALL BE PAID AS INLET AND PIPE PROTECTION.

ROLLED EROSION CONTROL PRODUCTS



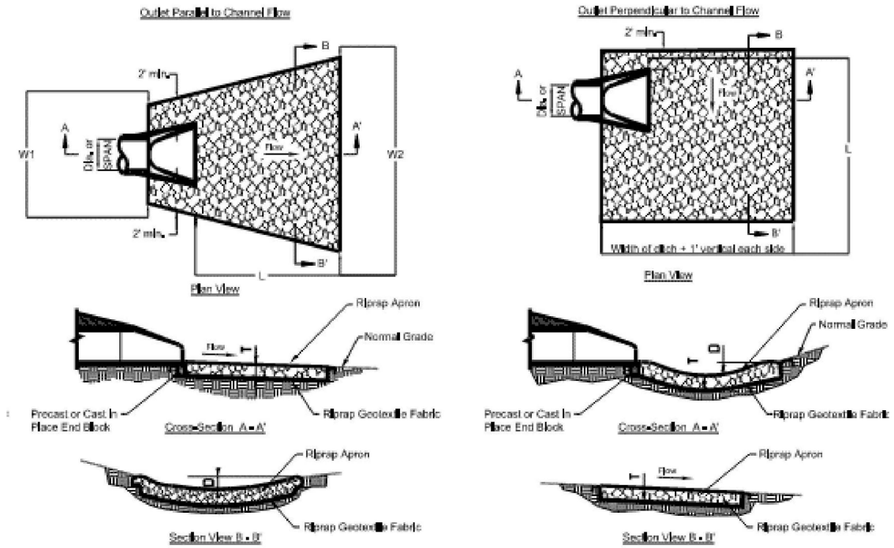
Notes:
1. Overlap minimum is the diameter of the roll.
2. 4' spacing for wattles.
3. 2' spacing for rolled excelsior.
4. Or space according to manufacturer's specifications.



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

REFERENCE		STANDARD DWG. NO.
Project		IUM-514
Designed ____ Date ____		SHEET 1 OF 1
Checked ____ Date ____		DATE 2-19-18
Approved ____ Date ____		

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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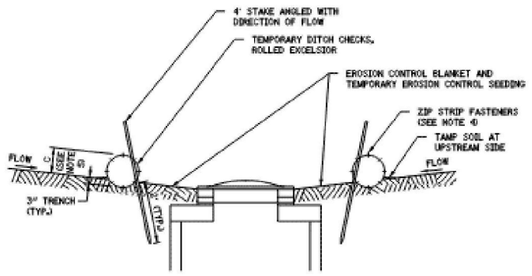
TransLand Engineering Group				
USER NAME = ysafo	DESIGNED - TRANS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION AND SEDIMENT CONTROL DETAILS ILLINOIS ROUTE 31
	DRAWN - TRANS	REVISED -		
PLOT SCALE = 100.0000 ' / in.	CHECKED - YS	REVISED -		SCALE: NTS | SHEET 1 OF 3 SHEETS | STA. TO STA.
PLOT DATE = 2/26/2026	DATE - 04/30/2024	REVISED -		

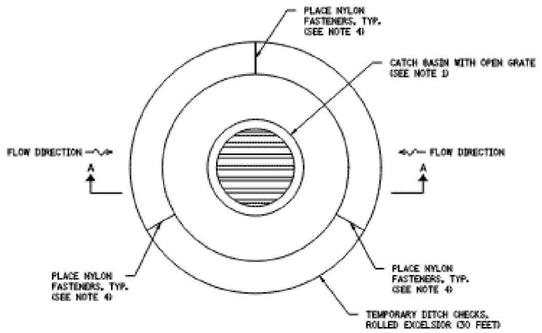
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	223
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	



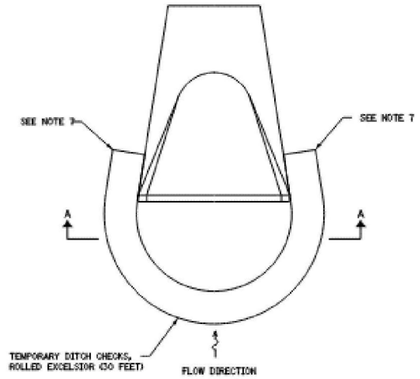
SECTION A - A

NOTES:

1. INLET FILTER IS TO BE PROVIDED FOR ALL OPEN-GRATED DRAINAGE STRUCTURES.
2. ROLLED EXCELSIOR LOG SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF 3" AND SOIL SHALL BE TAMPED AGAINST THE UPSTRAEM 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.

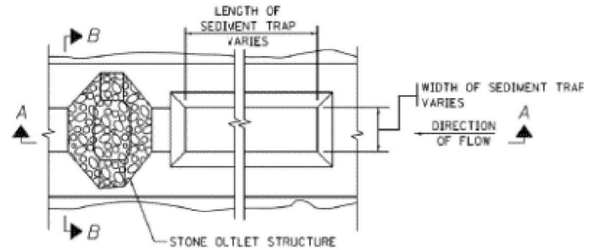


AT CATCH BASINS IN DITCHES OR AT AREA DRAINS

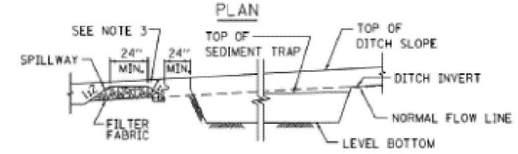


AT CULVERT INLETS

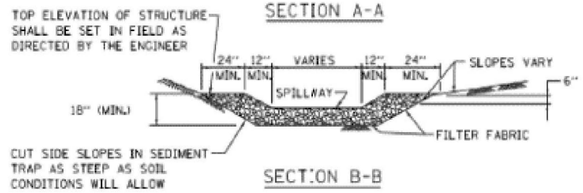
STORM DRAIN INLET PROTECTION DETAIL
SCALE=N.T.S.



PLAN



SECTION A-A



SECTION B-B

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)
6	130	60	19,500

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 WIL BE 30".
4. THE MAXIMUM DRAINAGE AREA (INCLUDING OFF-SITE AREA) ALLOWED PER TRAP IS 5 ACRES.

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TransLand Engineering Group

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	DRAWN - TRANS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - YS	REVISED -	
PLOT DATE = 2/26/2026	DATE - 04/30/2024	REVISED -	

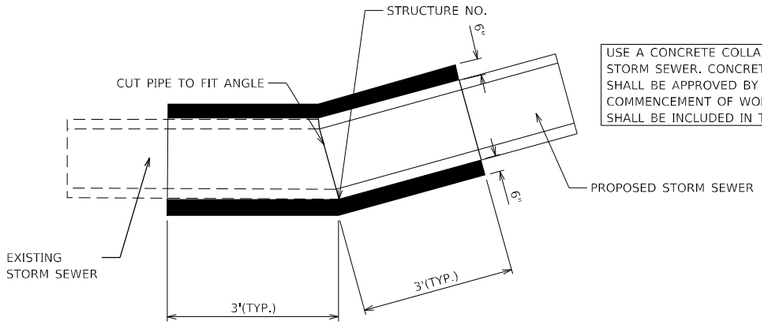
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL DETAILS
ILLINOIS ROUTE 31

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	224
		CONTRACT NO. 62U72		
	ILLINOIS	FED. AID PROJECT		

TEMPORARY CONCRETE PIPE COLLAR



USE A CONCRETE COLLAR TO MAKE CONNECTION TO EXISTING STORM SEWER. CONCRETE COLLAR MIX AND INSTALLATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK. THE COST OF THE CONNECTION SHALL BE INCLUDED IN THE COST OF THE STORM SEWER.

STUCTURE NO.	PIPE SIZE	STATION
TS 4-03	12"	448+20
TS 4-04	12"	449+40
TS 4-05	12"	450+33
TS 5-01	12"	451+47
TS 5-02	12"	452+37
TS 5-17	12"	454+75
TS 5-07	12"	455+82
TS 5-08	12"	456+85
TS 5-09	12"	457+05
TS 5-10	12"	458+25
TS 5-13	12"	459+91
TS 6-04	12"	467+55
TS 6-05	12"	468+48

TEMPORARY MANHOLE SCHEDULE

TEMPORARY MANHOLES				EXISTING CULVERT		PROPOSED TEMP. PIPE CULVERT	
STR. NO.	STATION	DIA.	RIM ELEV.	SIZE	INV. ELEV.	SIZE	INV. ELEV.
TS 4-01	445+84	4'	754.51	12"	751.11	12"	750.50
TS 4-02	447+12	4'	754.46	12"	751.66	12"	751.66
TS 4-03	448+20	4'	CON. COLLAR	12"	751.15	12"	751.20
TS 4-04	449+40	4'	CON. COLLAR	12"	754.40	12"	751.40
TS 4-05	450+33	4'	CON. COLLAR	12"	751.31	12"	751.31
TS 5-01	451+47	4'	CON. COLLAR	12"	751.03	12"	751.03
TS 5-02	452+37	4'	CON. COLLAR	12"	751.55	12"	751.55
TS 5-03	453+75	4'	753.75	12"	751.65(E) 751.85(SW)	12"	751.65
TS 5-04	454+78	4'	754.15	12"	NA	12"	751.95
TS 5-05	454+80	4'	754.17	12"	751.55	12"	751.95
TS 5-06	455+82	4'	754.80	12"	NA	12"	751.80
TS 5-07	455+82	4'	CON. COLLAR	12"	751.68	12"	751.68
TS 5-08	456+85	4'	CON. COLLAR	12"	752.31(NE) 752.41(SW)	12"	752.41
TS 5-09	457+05	4'	CON. COLLAR	12"	752.12	12"	752.12
TS 5-10	458+25	4'	CON. COLLAR	12"	751.74	12"	751.74
TS 5-11	458+25	4'	755.85	12"	NA	12"	751.85
TS 5-12	459+90	4'	756.60	12"	NA	12"	752.60
TS 5-13	459+91	4'	CON. COLLAR	12"	752.48	12"	752.48
TS 5-14	461+91	4'	755.60	12"	NA	12"	751.60
TS 5-15	453+79	4'	755.70	12"	NA	12"	751.70
TS 5-16	453+75	4'	753.70	12"	751.20(E) 751.50(W)	12"	752.25
TS 5-17	454+75	4'	CON. COLLAR	12"	751.06(E) 751.36(SW)	12"	752.50
TS 5-18	456+97	4'	754.42	12"	751.52(E) 751.72(E) 752.02(E)	12"	751.52(E) 751.72(E) 752.02(E)
TS 5-19	461+90	4'	754.41	12"	751.71(E) FIELD VERIFY	12"	751.71
TS 5-20	456+79	4'	755.05	12"	NA	12"	752.52
TS 5-21	457+10	4'	754.00	12"	NA	12"	751.76
TS 5-22	461+21	4'	755.00	12"	NA	12"	752.50
TS 6-01	466+64	4'	755.50	12"	NA	12"	752.25
TS 6-02	467+55	4'	756.50	12"	NA	12"	752.50
TS 6-03	468+41	4'	756.80	12"	NA	12"	752.80
TS 6-04	467+55	4'	CON. COLLAR	12"	752.45	12"	752.45
TS 6-05	468+48	4'	CON. COLLAR	12"	752.68	12"	752.68
TS 6-06	466+64	4'	755.26	12"	752.16(E) 752.36(S)	12"	752.16
TS 6-07	466+43	4'	755.49	12"	752.79	12"	752.79
TS 10-01	301+85	4'	754.07	12"	750.47	12"	750.47
TS 10-02	301+86	4'	754.33	12"	750.83	12"	750.83
TS 10-03	303+00	4'	754.18	12"	FIELD VERIFY	12"	751.26
TS 10-04	303+31	4'	754.20	12"	FIELD VERIFY	12"	751.39
TS 10-05	303+31	4'	754.25	12"	NA	12"	751.42
TS 10-06	308+02	4'	753.76	12"	752.30(NE) 751.60(S)	12"	752.30(NE) 751.60(S)

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PLOT DATE = 2/26/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION AND SEDIMENT CONTROL DETAILS
ILLINOIS ROUTE 31

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

F.A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	225
		CONTRACT NO. 62U72		
	ILLINOIS	FED. AID PROJECT		

END CONTRACT 80C85
BEGIN CONTRACT 62U72

PROJECT BEGINS
STA. 397+00

℄ IL ROUTE 31

BANK DR

DARTMOOR DR

PARK PL

EX ROW

0 50 100 150
SCALE IN FEET

EXISTING DRAINAGE LEGEND

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

℄ IL ROUTE 31

0 50 100 150
SCALE IN FEET

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 1 OF 5 SHEETS | STA. 397+00 | TO STA. 425+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	226
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

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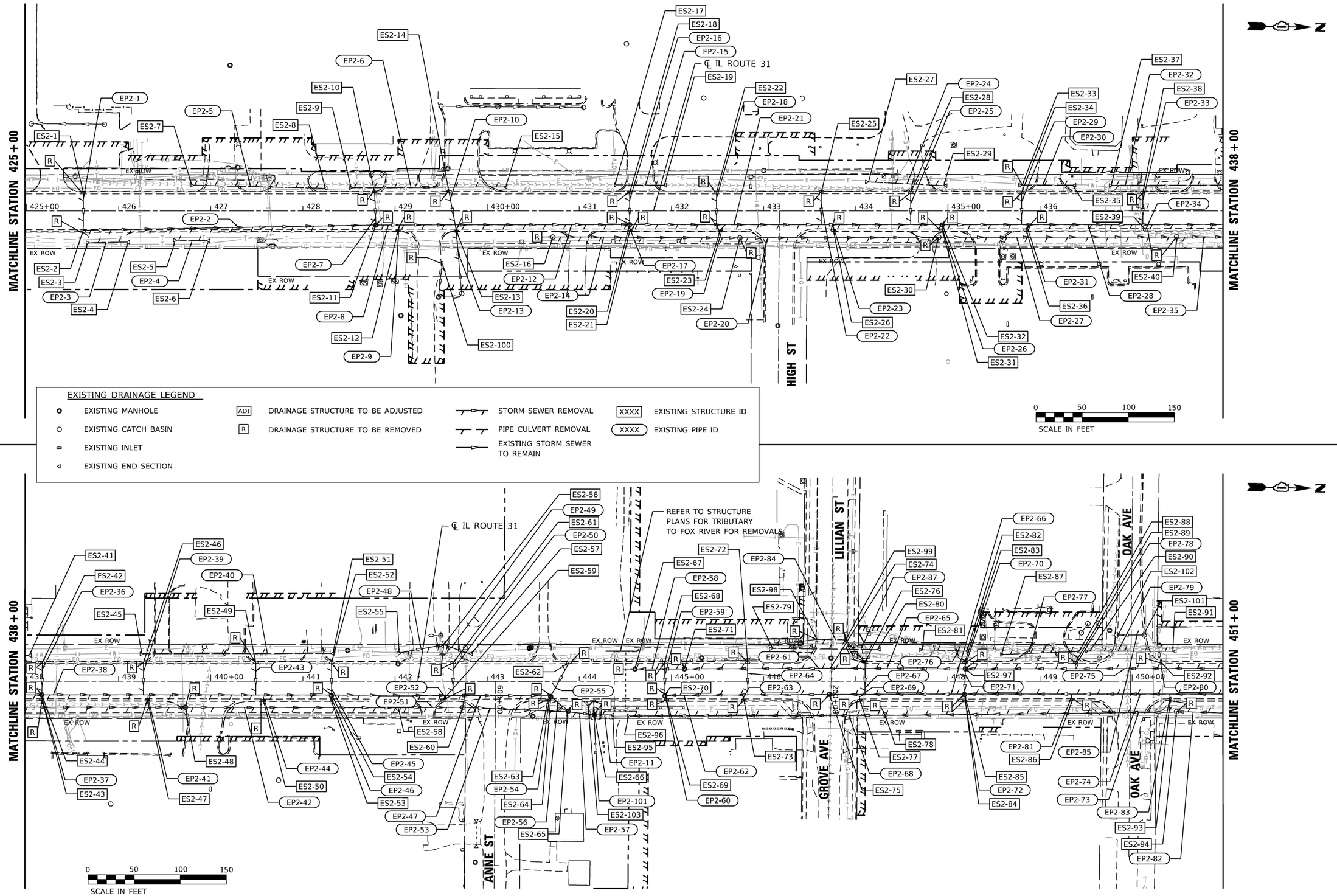

EXISTING DRAINAGE LEGEND

- EXISTING MANHOLE
- EXISTING CATCH BASIN
- EXISTING INLET
- EXISTING END SECTION
- ADJ — DRAINAGE STRUCTURE TO BE ADJUSTED
- R — DRAINAGE STRUCTURE TO BE REMOVED
- STORM SEWER REMOVAL
- PIPE CULVERT REMOVAL
- EXISTING STORM SEWER TO REMAIN
- XXXX — EXISTING STRUCTURE ID
- XXXX — EXISTING PIPE ID

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 2 OF 5 SHEETS | STA. 425+00 TO STA. 451+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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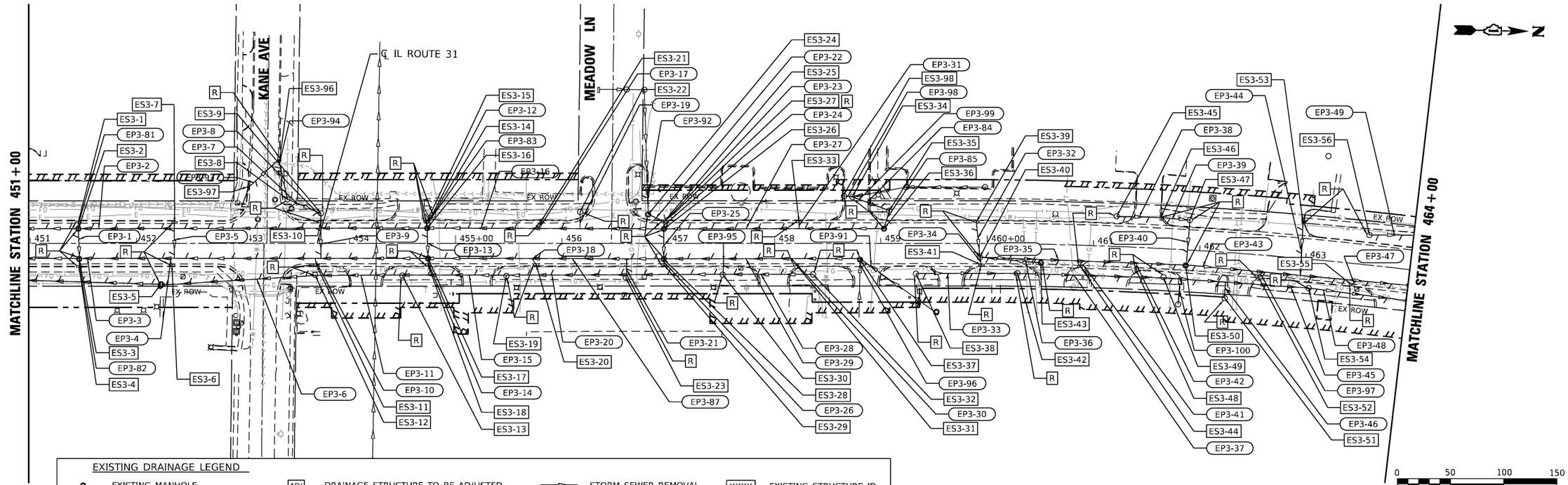
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	



EXISTING DRAINAGE LEGEND

- EXISTING MANHOLE
- EXISTING CATCH BASIN
- EXISTING INLET
- EXISTING END SECTION
- ADJ — DRAINAGE STRUCTURE TO BE ADJUSTED
- R — DRAINAGE STRUCTURE TO BE REMOVED
- STORM SEWER REMOVAL
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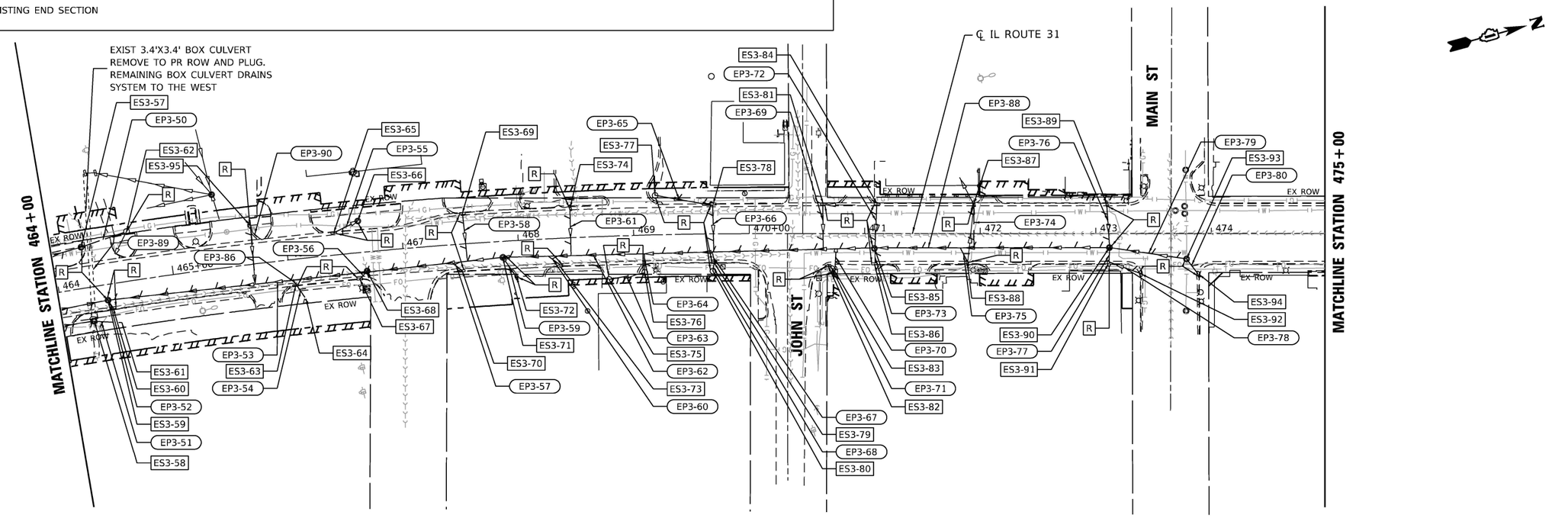
- EXISTING STORM SEWER TO REMAIN
- XXXX — EXISTING STRUCTURE ID
- XXXX — EXISTING PIPE ID



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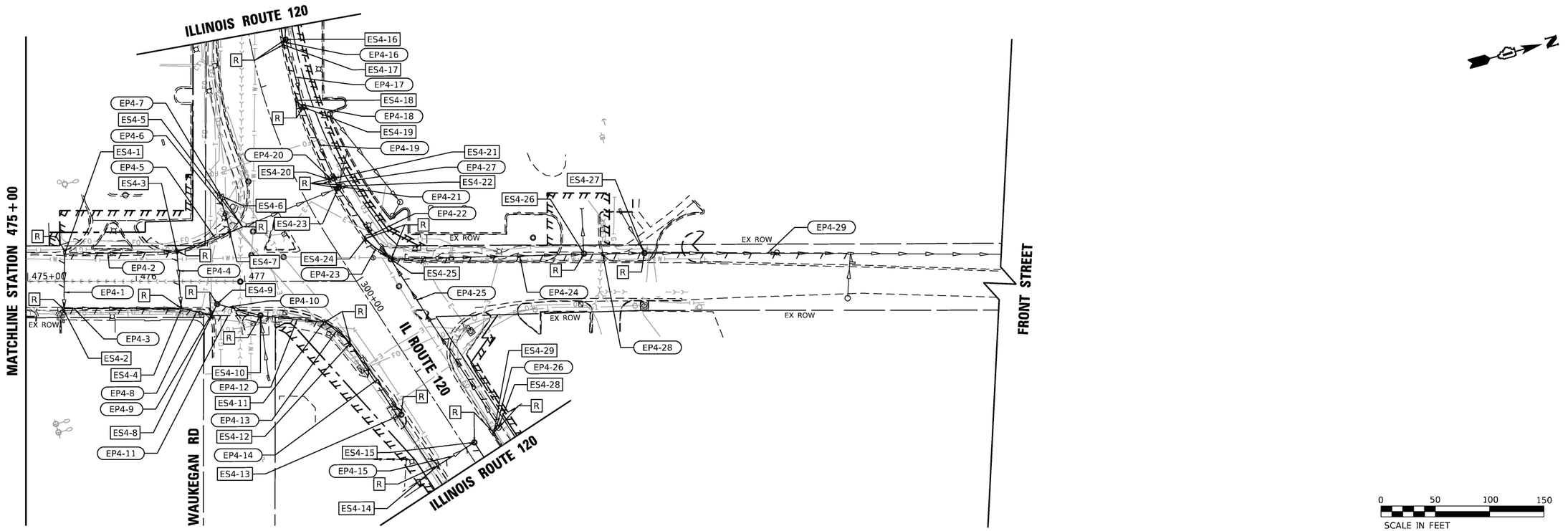
PLOT DATE = 12/19/2025	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 3 OF 5 SHEETS | STA. 451+00 TO STA. 475+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	228
		CONTRACT NO. 62U72		
		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						

MODEL: Default
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184-001322

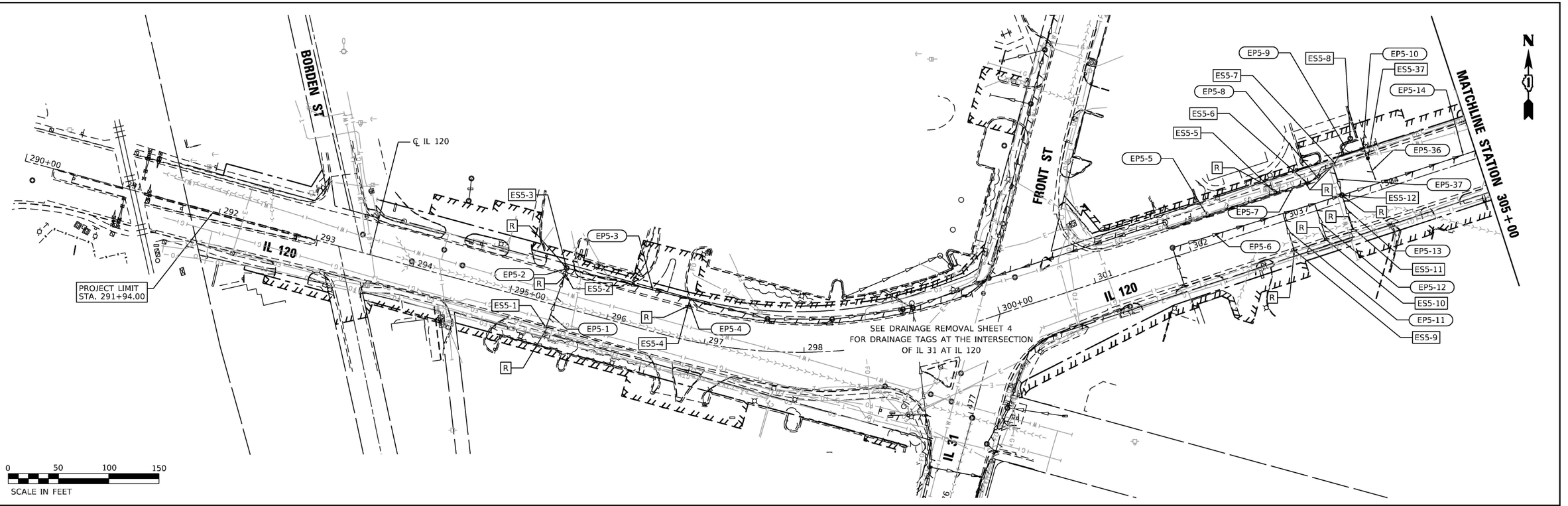
USER NAME = mzuzzio	DESIGNED - HRG	REVISED -
	DRAWN - DMS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/19/2025	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN
ILLINOIS ROUTE 31

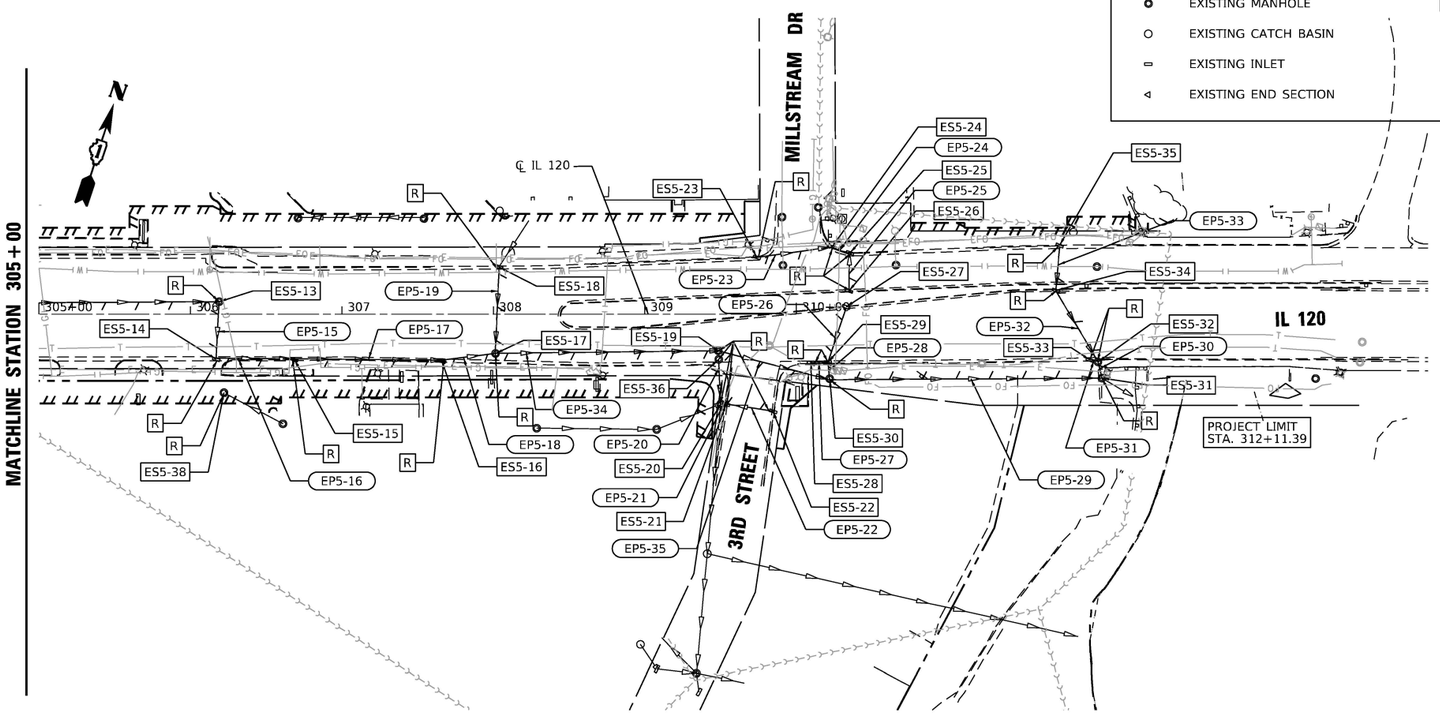
SCALE: 1"=50' | SHEET 4 OF 5 SHEETS | STA. 475+00 | TO STA. 484+00

F.A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	229
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	



EXISTING DRAINAGE LEGEND

- EXISTING MANHOLE
- EXISTING CATCH BASIN
- EXISTING INLET
- EXISTING END SECTION
- ADJ — DRAINAGE STRUCTURE TO BE ADJUSTED
- R — DRAINAGE STRUCTURE TO BE REMOVED
- STORM SEWER REMOVAL
- PIPE CULVERT REMOVAL
- EXISTING STORM SEWER TO REMAIN
- XXXX — EXISTING STRUCTURE ID
- XXXX — EXISTING PIPE ID



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Illinois Professional Design Firm
184-001322

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN
ILLINOIS ROUTE 120

SCALE: 1"=50' | SHEET 5 OF 5 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	230
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
FILE NAME: pw:\\patrickco-pw.bentley.com:PATRICKCO-PW-07\Documents\IDOT\22177.019\12 Design\12.3 CADD\SHEETS\C2-SHT-DRAIN-REM-PLAN-05.dgn

STRUCTURE NUMBER	STATION	OFFSET	BASELINE	REMOVING MANHOLES 60500040	REMOVING CATCH BASINS 60500050	REMOVING INLETS 60500060	REMOVE EXISTING FLARED END SECTIONS X0322936	MANHOLES TO BE ADJUSTED W/ TYPE 1 CLOSED LID 60255800	ELEVATION	COMMENTS
				EACH	EACH	EACH	EACH	EACH		
ES1-1	400+57	-50.2	X_IL31	1						
ES1-2	402+53	-50.4	X_IL31	1						
ES1-3	402+43	-31.3	X_IL31			1				
ES1-4	402+45	35.5	X_IL31			1				
ES1-5	404+55	-45.1	X_IL31	1						
ES1-6	404+45	-27.2	X_IL31			1				
ES1-7	404+44	41.9	X_IL31			1				
ES1-8	405+42	-56.4	X_IL31		1					
ES1-9	405+45	-39.5	X_IL31	1						
ES1-10	406+46	-23.3	X_IL31			1				
ES1-11	406+45	25.9	X_IL31			1				
ES1-12	406+53	-43.2	X_IL31	1						
ES1-13	407+89	54.0	X_IL31							
ES1-14	101+23	-17.8	X_PARK		1					
ES1-15	408+95	-22.9	X_IL31			1				
ES1-16	408+95	32.3	X_IL31			1				
ES1-17	409+06	-22.0	X_IL31	1						
ES1-18	409+10	-40.4	X_IL31	1						
ES1-19	409+16	-19.6	X_IL31	1						
ES1-20	101+73	19.5	X_PARK		1					
ES1-23	411+13	-18.7	X_IL31	1						
ES1-24	411+14	25.7	X_IL31			1				
ES1-25	413+13	-32.0	X_IL31		1					
ES1-26	413+13	-19.4	X_IL31	1						
ES1-27	413+13	22.5	X_IL31			1				
ES1-28	414+98	33.3	X_IL31				1			
ES1-29	415+11	-18.7	X_IL31		1					
ES1-30	415+13	22.6	X_IL31			1				
ES1-31	415+69	32.4	X_IL31				1			
ES1-32	417+14	-26.2	X_IL31			1				
ES1-33	417+10	-18.1	X_IL31		1					
ES1-34	417+09	22.5	X_IL31			1				
ES1-35	419+15	-22.5	X_IL31		1					
ES1-36	419+09	-19.7	X_IL31			1				
ES1-37	419+09	22.4	X_IL31			1				
ES1-38	421+10	-20.0	X_IL31			1				
ES1-39	421+09	22.6	X_IL31			1				
ES1-40	423+23	-22.6	X_IL31		1					
ES1-41	423+20	-20.0	X_IL31			1				
ES1-42	423+19	22.5	X_IL31			1				
ES1-43	423+30	-34.9	X_IL31				1			
ES1-44	423+34	-35.1	X_IL31				1			
ES1-45	423+28	41.6	X_IL31				1			
ES1-46	423+34	41.4	X_IL31				1			
ES1-47	409+10	-17.5	X_IL31	1						
ES1-48	398+45	-69.7	X_IL31					1	822.4	
			SHEET 1 TOTALS	11	8	19	6	1		

EXISTING DRAINAGE REMOVAL PLAN SHEET 2 - IL 31										
ES2-1	425+62	-20.5	X_IL31			1				
ES2-2	425+62	22.2	X_IL31			1				
ES2-3	425+66	34.4	X_IL31				1			
ES2-4	426+11	33.6	X_IL31				1			
ES2-5	426+61	31.7	X_IL31				1			
ES2-6	426+98	32.2	X_IL31				1			
ES2-7	426+79	-27.8	X_IL31				1			
ES2-8	428+25	-24.6	X_IL31				1			
ES2-9	428+52	-25.0	X_IL31				1			
ES2-10	428+78	-20.7	X_IL31			1				
ES2-11	428+79	15.1	X_IL31	1						
ES2-12	429+03	21.6	X_IL31			1				
ES2-13	429+66	21.4	X_IL31			1				
ES2-14	429+59	-20.9	X_IL31			1				
ES2-15	430+20	-26.0	X_IL31				1			
ES2-16	430+71	28.3	X_IL31		1					
ES2-17	431+39	-28.2	X_IL31				1			
ES2-18	431+55	-20.5	X_IL31			1				
ES2-19	431+94	-27.8	X_IL31				1			
ES2-20	431+54	14.8	X_IL31	1						

STRUCTURE NUMBER	STATION	OFFSET	BASELINE	REMOVING MANHOLES 60500040	REMOVING CATCH BASINS 60500050	REMOVING INLETS 60500060	REMOVE EXISTING FLARED END SECTIONS X0322936	MANHOLES TO BE ADJUSTED W/ TYPE 1 CLOSED LID 60255800	ELEVATION	COMMENTS
				EACH	EACH	EACH	EACH	EACH		
ES2-21	431+55	21.5	X_IL31			1				
ES2-22	432+49	-20.4	X_IL31			1				
ES2-23	432+53	21.4	X_IL31			1				
ES2-24	432+74	29.1	X_IL31		1					
ES2-25	433+63	-21.0	X_IL31			1				
ES2-26	433+76	20.6	X_IL31			1				
ES2-27	434+12	-31.4	X_IL31				1			
ES2-28	434+59	-19.7	X_IL31			1				
ES2-29	434+98	-27.4	X_IL31				1			
ES2-30	434+90	28.4	X_IL31		1					
ES2-31	434+94	20.5	X_IL31			1				
ES2-32	434+94	15.1	X_IL31	1						
ES2-33	435+78	-27.8	X_IL31				1			
ES2-34	435+80	-19.6	X_IL31			1				
ES2-35	436+38	-27.8	X_IL31				1			
ES2-36	435+85	20.5	X_IL31			1				
ES2-37	436+76	-27.7	X_IL31				1			
ES2-38	437+12	-19.9	X_IL31			1				
ES2-39	437+14	20.2	X_IL31			1				
ES2-40	437+48	27.9	X_IL31		1					
ES2-41	438+04	-28.0	X_IL31				1			
ES2-42	438+17	-20.1	X_IL31			1				
ES2-43	438+17	20.1	X_IL31			1				
ES2-44	438+17	14.8	X_IL31	1						
ES2-45	439+24	-29.7	X_IL31				1			
ES2-46	439+27	-20.0	X_IL31			1				
ES2-47	439+31	20.2	X_IL31			1				
ES2-48	439+72	28.4	X_IL31	1						
ES2-49	440+49	-20.0	X_IL31			1				
ES2-50	440+57	20.3	X_IL31			1				
ES2-51	441+33	-30.1	X_IL31				1			
ES2-52	441+31	-20.0	X_IL31			1				
ES2-53	441+30	21.1	X_IL31			1				
ES2-54	441+31	15.7	X_IL31	1						
ES2-55	442+04	-30.5	X_IL31				1			
ES2-56	442+53	-42.7	X_IL31				1			
ES2-57	442+83	-30.0	X_IL31				1			
ES2-58	442+03	29.2	X_IL31		1					
ES2-59	442+52	20.2	X_IL31			1				
ES2-60	442+73	28.5	X_IL31		1					
ES2-61	442+63	-20.2	X_IL31			1				
ES2-62	443+89	-20.1	X_IL31			1				
ES2-63	443+66	20.1	X_IL31			1				
ES2-64	443+69	16.5	X_IL31	1						
ES2-65	443+88	32.4	X_IL31	1						
ES2-66	444+16	36.3	X_IL31	1						
ES2-67	444+60	-13.3	X_IL31	1						ABANDON PIPE TO THE SOUTH
ES2-68	444+93	-20.3	X_IL31			1				
ES2-69	444+95	20.1	X_IL31			1				
ES2-70	444+93	15.9	X_IL31	1						
ES2-71	445+14	-13.4	X_IL31	1						
ES2-72	445+83	-20.1	X_IL31			1				
ES2-73	445+79	20.2	X_IL31			1				
ES2-74	446+72	-14.1	X_IL31	1						
ES2-75	446+71	14.3	X_IL31	1						
ES2-76	447+10	-20.6	X_IL31			1				
ES2-77	447+04	20.5	X_IL31			1				
ES2-78	447+32	36.7	X_IL31		1					
ES2-79	446+07	-35.3	X_IL31				1			
ES2-80	447+26	-34.5	X_IL31				1			
ES2-81	447+70	-34.1	X_IL31				1			
ES2-82	448+21	-32.6	X_IL31				1			
ES2-83	448+19	-20.3	X_IL31			1				
ES2-84	448+18	21.5	X_IL31			1				
ES2-85	448+18	14.5	X_IL31	1						
ES2-86	449+35	20.0	X_IL31			1				
ES2-87	448+58	-29.0	X_IL31				1			
ES2-88	449+42	-32.1	X_IL31				1			
ES2-89	449+38	-20.3	X_IL31			1				
ES2-90	449+50	-32.6	X_IL31				1			

MODEL: SHEET_01
FILE NAME: pw:\\patrickco-pw.bentley.com:PATRICKCO-PW-07\Documents\IDOT\22177.01\12_Design\12.3 CADD\SHEETS\C2-SHT-DRAIN-SCHED-NORTH-REM.dgn

HRGreen.com
Illinois Professional Design Firm
184-001322

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN SCHEDULES
STRUCTURE REMOVAL SCHEDULE

SCALE: NTS | SHEET 1 OF 6 SHEETS | STA. | TO STA.

F.A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	231
		CONTRACT NO. 62U72		
		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	MANHOLES TO BE ADJUSTED W/ TYPE 1 CLOSED LID 60255800	ELEVATION	COMMENTS
				EACH	EACH	EACH	EACH	EACH		
ES2-91	450+47	-32.4	X_IL31				1			
ES2-92	450+31	-20.8	X_IL31			1				
ES2-93	450+41	20.0	X_IL31			1				
ES2-94	450+48	32.9	X_IL31		1					
ES2-95	444+36	36.5	X_IL31				1			
ES2-96	444+53	37.8	X_IL31				1			
ES2-97	448+19	-13.4	X_IL31	1						
ES2-98	446+58	-45.4	X_IL31			1				
ES2-99	446+89	-44.9	X_IL31			1				
ES2-100	429+52	56.1	X_IL31		1					
ES2-101	450+15	-49.0	X_IL31		1					
ES2-102	449+84	-49.0	X_IL31		1					
ES2-103	444+16	-21.0	X_IL31			1				
			SHEET 2 TOTALS	16	11	45	31	0		

EXISTING DRAINAGE REMOVAL PLAN SHEET 3 - IL 31										
ES3-1	451+45	-20.2	X_IL31			1				
ES3-2	451+45	-14.0	X_IL31	1						
ES3-3	451+46	14.4	X_IL31	1						
ES3-4	451+46	21.5	X_IL31			1				
ES3-5	452+23	38.3	X_IL31		1					
ES3-6	452+33	20.2	X_IL31			1				
ES3-7	452+36	-19.8	X_IL31			1				
ES3-8	453+42	-41.5	X_IL31		1					
ES3-9	453+73	-28.3	X_IL31		1					
ES3-10	453+73	-20.3	X_IL31			1				
ES3-11	453+69	20.0	X_IL31			1				
ES3-12	453+68	29.3	X_IL31		1					
ES3-13	454+50	30.0	X_IL31		1					
ES3-14	454+79	-26.9	X_IL31		1					
ES3-15	454+73	-20.3	X_IL31			1				
ES3-16	454+73	-14.4	X_IL31	1						
ES3-17	454+74	14.0	X_IL31	1						
ES3-18	454+74	19.9	X_IL31			1				
ES3-19	455+48	30.3	X_IL31		1					
ES3-20	455+76	19.9	X_IL31			1				
ES3-21	455+80	-20.3	X_IL31			1				
ES3-22	456+17	-29.6	X_IL31		1					
ES3-23	456+60	32.0	X_IL31		1					
ES3-24	456+81	-27.3	X_IL31	1						
ES3-25	456+96	-20.4	X_IL31			1				
ES3-26	456+96	-13.7	X_IL31	1						
ES3-27	457+04	-26.9	X_IL31		1					
ES3-28	456+96	14.5	X_IL31	1						
ES3-29	456+96	20.0	X_IL31			1				
ES3-30	457+51	29.2	X_IL31		1					
ES3-31	458+20	19.7	X_IL31			1				
ES3-32	458+36	29.0	X_IL31		1					
ES3-33	458+23	-20.3	X_IL31			1				
ES3-34	458+73	-43.8	X_IL31		1					
ES3-35	459+08	-30.8	X_IL31		1					
ES3-36	459+03	-13.9	X_IL31	1						
ES3-37	458+80	15.0	X_IL31	1						CONNECT 6" TILE TO PROPOSED STRUCTURE
ES3-38	459+33	28.3	X_IL31		1					
ES3-39	459+90	-20.4	X_IL31			1				
ES3-40	459+93	12.8	X_IL31		1					
ES3-41	459+95	19.9	X_IL31			1				
ES3-42	460+29	27.7	X_IL31		1					
ES3-43	460+51	17.4	X_IL31	1						
ES3-44	460+88	19.7	X_IL31			1				
ES3-45	461+21	-28.5	X_IL31		1					
ES3-46	461+62	-29.0	X_IL31			1				
ES3-47	461+89	-28.1	X_IL31		1					
ES3-48	461+41	20.2	X_IL31			1				
ES3-49	461+67	26.7	X_IL31		1					
ES3-50	461+88	14.6	X_IL31	1						
ES3-51	462+27	42.8	X_IL31		1					
ES3-52	462+56	19.8	X_IL31			1				
ES3-53	462+94	-35.1	X_IL31			1				

STRUCTURE NUMBER	STATION	OFFSET	BASELINE	REMOVING MANHOLES 60500040	REMOVING CATCH BASINS 60500050	REMOVING INLETS 60500060	REMOVE EXISTING FLARED END SECTIONS X0322936	MANHOLES TO BE ADJUSTED W/ TYPE 1 CLOSED LID 60255800	ELEVATION	COMMENTS
				EACH	EACH	EACH	EACH	EACH		
ES3-54	463+05	27.2	X_IL31		1					
ES3-55	463+46	20.3	X_IL31			1				
ES3-56	463+57	-27.9	X_IL31		1					
ES3-57	464+25	-35.4	X_IL31	1						
ES3-58	464+26	29.4	X_IL31	1						
ES3-59	464+41	13.5	X_IL31	1						
ES3-60	464+44	20.8	X_IL31			1				
ES3-61	464+50	34.6	X_IL31				1			
ES3-62	464+65	-42.8	X_IL31		1					
ES3-63	466+04	22.6	X_IL31			1				
ES3-64	466+12	35.1	X_IL31				1			
ES3-65	466+42	-19.2	X_IL31			1				
ES3-66	466+63	-27.3	X_IL31	1						
ES3-67	466+60	22.8	X_IL31			1				
ES3-68	466+67	16.6	X_IL31	1						
ES3-69	467+53	-26.4	X_IL31			1				
ES3-70	467+50	23.2	X_IL31			1				
ES3-71	467+86	13.8	X_IL31	1						
ES3-72	467+97	31.4	X_IL31			1				
ES3-73	468+35	24.0	X_IL31			1				
ES3-74	468+46	-25.9	X_IL31			1				
ES3-75	468+77	37.5	X_IL31		1					
ES3-76	469+09	32.4	X_IL31		1					
ES3-77	469+19	-34.0	X_IL31		1					
ES3-78	469+69	-25.7	X_IL31			1				
ES3-79	469+69	24.7	X_IL31			1				
ES3-80	469+68	32.2	X_IL31		1					
ES3-81	471+11	-25.7	X_IL31			1				
ES3-82	470+68	27.8	X_IL31			1				
ES3-83	470+74	32.8	X_IL31		1					
ES3-84	471+11	-25.7	X_IL31			1				
ES3-85	471+08	12.9	X_IL31	1						
ES3-86	471+09	26.2	X_IL31			1				
ES3-87	471+94	-25.7	X_IL31			1				
ES3-88	471+89	25.5	X_IL31			1				
ES3-89	473+10	-25.8	X_IL31			1				
ES3-90	473+12	12.1	X_IL31	1						
ES3-91	473+11	25.7	X_IL31			1				
ES3-92	473+39	34.7	X_IL31			1				
ES3-93	473+79	22.0	X_IL31	1						
ES3-94	473+89	35.2	X_IL31			1				
ES3-95	465+71	-33.8	X_IL31			1				
ES3-96	463+35	-79.0	X_IL31			1				
ES3-97	463+05	-53.0	X_IL31			1				
ES3-98	458+66	-44.6	X_IL31			1				
			SHEET 3 TOTAL	20	29	47	2	0		

EXISTING DRAINAGE REMOVAL PLAN SHEET 4 - IL 31 @ IL 120										
ES4-1	475+34	-25.2	X_IL31			1				
ES4-2	475+33	26.1	X_IL31			1				
ES4-3	476+37	-27.7	X_IL31			1				
ES4-4	476+42	25.1	X_IL31			1				
ES4-5	476+76	-78.8	X_IL31			1				
ES4-6	476+80	-77.7	X_IL31			1				
ES4-7	476+86	-45.7	X_IL31			1				
ES4-8	476+70	31.7	X_IL31			1				
ES4-9	476+75	21.0	X_IL31	1						
ES4-10	477+14	31.5	X_IL31	1						
ES4-11	477+73	37.7	X_IL31			1				
ES4-12	477+97	57.6	X_IL31			1				
ES4-13	301+25	32.8	X_IL120	1						
ES4-14	301+83	30.6	X_IL120			1				
ES4-15	301+84	-9.4	X_IL120	1						
ES4-16	477+38	-222.4	X_IL31	1						
ES4-17	477+36	-217.5	X_IL31			1				
ES4-18	477+48	-166.4	X_IL31			1				
ES4-19	477+54	-160.1	X_IL31	1						
ES4-20	477+78	-93.8	X_IL31			1				
ES4-21	477+82	-94.7	X_IL31	1						
ES4-22	477+90	-87.7	X_IL31		1					

STRUCTURE NUMBER	STATION	OFFSET	BASELINE	REMOVING MANHOLES 60500040	REMOVING CATCH BASINS 60500050	REMOVING INLETS 60500060	REMOVE EXISTING FLARED END SECTIONS X0322936	MANHOLES TO BE ADJUSTED W/ TYPE 1 CLOSED LID 60255800	ELEVATION	COMMENTS
				EACH	EACH	EACH	EACH	EACH		
ES4-22	477+90	-87.7	X_IL31		1					
ES4-23	477+86	-85.7	X_IL31	1						
ES4-24	299+72	-28.3	X_IL120			1				
ES4-25	300+00	-37.6	X_IL120	1						
ES4-26	300+94	-189.1	X_IL120	1						
ES4-27	301+24	-236.0	X_IL120	1						
ES4-28	301+84	-35.5	X_IL120		1					
ES4-29	301+86	-29.3	X_IL120			1				
SHEET 4 TOTALS				11	2	16	0	0		
EXISTING DRAINAGE REMOVAL PLAN SHEET 5 - IL 120										
ES5-1	295+44	23.2	X_IL120			1				
ES5-2	195+48	-32.8	X_IL120		1					
ES5-3	295+48	-38.7	X_IL120	1						
ES5-4	296+76	-33.2	X_IL120			1				
ES5-5	302+99	-29.6	X_IL120			1				
ES5-6	303+32	-29.4	X_IL120			1				
ES5-7	303+61	-39.0	X_IL120			1				
ES5-8	303+85	-57.9	X_IL120	1						
ES5-9	302+98	30.1	X_IL120			1				
ES5-10	303+32	30.3	X_IL120			1				
ES5-11	303+61	30.3	X_IL120			1				
ES5-12	303+60	-6.8	X_IL120	1						
ES5-13	306+19	-8.2	X_IL120	1						
ES5-14	306+17	29.9	X_IL120			1				
ES5-15	306+69	30.0	X_IL120			1				
ES5-16	307+66	31.1	X_IL120			1				
ES5-17	308+01	26.0	X_IL120	1						
ES5-18	308+04	-31.2	X_IL120			1				
ES5-19	309+49	24.2	X_IL120	1						
ES5-20	309+50	59.3	X_IL120	1						
ES5-21	309+54	59.4	X_IL120			1				
ES5-22	309+85	64.1	X_IL120			1				
ES5-23	309+74	-37.5	X_IL120			1				
ES5-24	310+24	-44.4	X_IL120			1				
ES5-25	310+35	-40.4	X_IL120			1				
ES5-26	310+35	-15.3	X_IL120			1				
ES5-27	310+33	-4.8	X_IL120			1				
ES5-28	310+10	31.8	X_IL120			1				
ES5-29	310+21	31.7	X_IL120			1				
ES5-30	310+22	42.7	X_IL120	1						
ES5-31	312+02	42.2	X_IL120	1						
ES5-32	311+99	31.5	X_IL120	1						
ES5-33	311+94	30.3	X_IL120			1				
ES5-34	311+71	-15.6	X_IL120			1				
ES5-35	311+74	-45.2	X_IL120			1				
ES5-36	309+49	29.8	X_IL120	1						
ES5-37	303+97	-33.7	X_IL121	1						
ES5-38	306+22	52.4	X_IL121		1					
SHEET 5 TOTALS				12	2	24	0	0		
TOTALS				70	50	147	39	1		

MODEL: SHEET_03
FILE NAME: pw:\patrickco-pw.bentley.com:PATRICKCO-PW-07\Documents\IDOT\22177.01\PS\12_Design\12.3_CADD\SHEETS\C2-SHT-DRAIN-SCHED-NORTH-REM.dgn

HRGreen.com
Illinois Professional Design Firm
184-001322

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN SCHEDULES
STRUCTURE REMOVAL SCHEDULE

SCALE: NTS | SHEET 3 OF 6 SHEETS | STA. | TO STA.

F.A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	233
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

PIPE NUMBER	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE CULVERT REMOVAL 50105220	STORM SEWER REMOVAL 6" 55100200	STORM SEWER REMOVAL 8" 55100300	STORM SEWER REMOVAL 12" 55100500	STORM SEWER REMOVAL 15" 55100700	STORM SEWER REMOVAL 18" 55100900	STORM SEWER REMOVAL 21" 55101100	STORM SEWER REMOVAL 24" 55101200	STORM SEWER REMOVAL 30" 55101400	BOX CULVERT REMOVAL X1200050	TRENCH BACKFILL 20800150
			FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	CU YD
EXISTING DRAINAGE REMOVAL PLAN SHEET 1 - IL 31													
EP1-1	ES1-1	ES1-2								56			0.0
EP1-2	ES1-2	ES1-3				22							7.1
EP1-3	ES1-3	ES1-4				69							8.9
EP1-4	ES1-2	ES1-5								202			0.0
EP1-5	ES1-5	ES1-6				21							4.3
EP1-6	ES1-6	ES1-7				69							10.7
EP1-7	ES1-5	ES1-9								90			142.2
EP1-8	ES1-8	ES1-9				17							2.4
EP1-9	ES1-9	ES1-12								105			302.6
EP1-10	ES1-10	ES1-11				47							9.6
EP1-11	ES1-10	ES1-17				257							50.9
EP1-12	ES1-12	ES1-18								256			654.7
EP1-13	ES1-14	ES1-20					34						0.0
EP1-15	ES1-15	ES1-16				53							9.4
EP1-16	ES1-18	ES1-47								14			5.1
EP1-17	ES1-19	ES1-23					197						161.0
EP1-20	ES1-23	ES1-24				44							6.0
EP1-21	ES1-23	ES1-26								200			10.3
EP1-22	ES1-25	ES1-26				12							1.9
EP1-23	ES1-26	ES1-27				40							5.6
EP1-24	ES1-26	ES1-29								198			0.0
EP1-25	ES1-29	ES1-30				40							5.6
EP1-26	ES1-28	ES1-31	66										0.0
EP1-27	ES1-29	ES1-23								203			0.0
EP1-28	ES1-32	ES1-33				9							0.0
EP1-29	ES1-33	ES1-34				40							5.5
EP1-30	ES1-32	ES1-35								200			0.0
EP1-31	ES1-36	ES1-37				40							5.6
EP1-32	ES1-35	ES1-40								409			83.9
EP1-33	ES1-38	ES1-39				41							5.7
EP1-34	ES1-41	ES1-42				41							5.6
EP1-35	ES1-43	ES1-45								71			0.0
EP1-36	ES1-44	ES1-46								69			0.0
EP1-37	ES1-35	ES1-36				6							1.0
EP1-38	BLIND CONNECTION	ES1-38				4							0.7
EP1-39	ES1-40	ES1-41				5							0.7
EP1-40	-	-	51										5.4
		SHEET 1 TOTALS	117	0	0	877	231	0	0	2072	0	0	1512
EXISTING DRAINAGE REMOVAL PLAN SHEET 2 - IL 31													
EP2-1	ES2-1	ES2-2				40							5.6
EP2-2	ES2-2	ES2-11				318							42.0
EP2-3	ES2-3	ES2-4					40						5.0
EP2-4	ES2-5	ES2-6					32						4.2
EP2-5	ES2-7	ES2-8					141						18.8
EP2-6	ES2-9	ES2-15					164						19.9
EP2-7	ES2-10	ES2-11				35							4.8
EP2-8	ES2-11	BLIND CONNECTION				86							0.0
EP2-9	BLIND CONNECTION	ES2-12				6							1.0
EP2-10	ES2-14	ES2-13				41							5.7
EP2-11	ES2-66	ES2-95								18			3.2
EP2-12	BLIND CONNECTION	ES2-20				189							0.0
EP2-13	ES2-13	PROPOSED STRUCTURE				33							56.9
EP2-14	ES2-16	ES2-24					203						24.6
EP2-15	ES2-17	ES2-19					50						6.1
EP2-16	ES2-18	ES2-20				34							0.0
EP2-17	ES2-20	ES2-21				6							1.0
EP2-18	ES2-22	BLIND CONNECTION				34							4.8
EP2-19	BLIND CONNECTION	ES2-23				8							1.6
EP2-20	ES2-24	ES2-30					216						26.2
EP2-21	ES2-20	ES2-32						339					78.6
EP2-23	BLIND CONNECTION	ES2-26				6							1.2
EP2-24	ES2-27	ES2-29					82						10.0
EP2-25	ES2-28	BLIND CONNECTION				35							0.0
EP2-26	ES2-32	ES2-31				6							0.8
EP2-27	ES2-30	ES2-40					259						31.4
EP2-28	ES2-32	ES2-44						323					39.1
EP2-29	ES2-34	BLIND CONNECTION				35							4.3

PIPE NUMBER	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE CULVERT REMOVAL 50105220	STORM SEWER REMOVAL 6" 55100200	STORM SEWER REMOVAL 8" 55100300	STORM SEWER REMOVAL 12" 55100500	STORM SEWER REMOVAL 15" 55100700	STORM SEWER REMOVAL 18" 55100900	STORM SEWER REMOVAL 21" 55101100	STORM SEWER REMOVAL 24" 55101200	STORM SEWER REMOVAL 30" 55101400	BOX CULVERT REMOVAL X1200050	TRENCH BACKFILL 20800150
			FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	CU YD
EP2-30	ES2-33	ES2-35					55						5.8
EP2-31	BLIND CONNECTION	ES2-36				6							0.8
EP2-32	ES2-37	ES2-41					123						15.1
EP2-33	ES2-38	BLIND CONNECTION				35							4.7
EP2-34	BLIND CONNECTION	ES2-39				6							1.3
EP2-35	ES2-40	ES2-48					224						27.3
EP2-36	ES2-42	ES2-44				35							4.7
EP2-37	ES2-44	ES2-43				5							0.8
EP2-38	ES2-44	ES2-54								314			38.2
EP2-39	ES2-46	BLIND CONNECTION				35							4.7
EP2-40	ES2-45	ES2-51					204						24.7
EP2-41	BLIND CONNECTION	ES2-47				5							0.8
EP2-42	ES2-48	ES2-58					231						36.5
EP2-43	ES2-49	BLIND CONNECTION				35							4.7
EP2-44	BLIND CONNECTION	ES2-50				5							1.0
EP2-45	ES2-52	ES2-54				35							4.7
EP2-46	ES2-54	ES2-53				5							1.0
EP2-47	ES2-54	ES2-64					238						29.1
EP2-48	ES2-55	ES2-56					47						5.6
EP2-49	ES2-56	ES2-57					29						3.2
EP2-50	ES2-61	BLIND CONNECTION				36							4.8
EP2-51	ES2-58	ES2-60					70						8.5
EP2-52	BLIND CONNECTION	ES2-59				6							1.0
EP2-53	ES2-60	ES2-65					114						14.0
EP2-54	ES2-64	ES2-63				5							0.8
EP2-55	ES2-62	ES2-64				41							5.6
EP2-56	ES2-64	ES2-65								25			5.4
EP2-57	ES2-65	ES2-66								29			10.3
EP2-58	ES2-67	ES2-71									54		11.1
EP2-59	ES2-68	ES2-70				36							8.5
EP2-60	ES2-70	ES2-69				5							1.5
EP2-61	ES2-71	ES2-74									158		62.6
EP2-62	ES2-70	ES2-75									178		36.7
EP2-63	BLIND CONNECTION	ES2-73				5							2.0
EP2-64	ES2-72	BLIND CONNECTION				35							9.8
EP2-65	ES2-74	ES2-97									146		62.6
EP2-66	ES2-75	ES2-85									147		66.7
EP2-67	ES2-76	BLIND CONNECTION				35							8.3
EP2-68	ES2-96	ES2-78					276						33.3
EP2-69	BLIND CONNECTION	ES2-77				6							2.3
EP2-70	ES2-83	ES2-97				7							1.7
EP2-71	ES2-97	ES2-85				27							6.7
EP2-72	ES2-85	ES2-84				6							1.7
EP2-73	ES2-78	ES2-93					317						38.4
EP2-74	ES2-85	ES3-3									328		67.7
EP2-75	ES2-97	ES3-2									326		67.1
EP2-76	ES2-81	ES2-82					47						11.1
EP2-77	ES2-87	ES2-88					84						18.5
EP2-78	ES2-89	BLIND CONNECTION				6							1.6
EP2-79	ES2-90	ES2-91					92						21.8
EP2-80	ES2-92	BLIND CONNECTION				7							1.4
EP2-81	BLIND CONNECTION	ES2-86				6							1.6
EP2-82	ES2-94	ES3-5					175						35.9
EP2-83	BLIND CONNECTION	ES2-93				6							1.3
EP2-84	ES2-98	ES2-99				31							4.5
EP2-85	ES2-101	ES2-102				30							4.1
EP2-86	ES2-100	EX ROW				14							0.0
EP2-87	ES2-79	ES2-80					114						0.0
		SHEET 2 TOTALS	0	0	0	1470	3624	662	0	386	1338	0	1252
EXISTING DRAINAGE REMOVAL PLAN SHEET 3 - IL 31													
EP3-1	ES3-2	ES3-3				28							7.1
EP3-2	ES3-2	ES3-16								328			77.4
EP3-3	ES3-3	ES3-17								328			67.3
EP3-4	BLIND CONNECTION	ES3-6				6							1.3
EP3-5	ES3-7	BLIND CONNECTION				34							5.2
EP3-6	ES3-5	ES3-12					145						17.6
EP3-7	ES3-8	ES3-9			34								4.9
EP3-8	ES3-9	ES3-10				8							1.6

MODEL: SHEET_04
FILE NAME: pw:\\patrickco-pw.bentley.com:PATRICKCO-PW-07\Documents\IDOT\22177.01\Sht 2 Design\12-3 CADD\SHEETS\C2-SHT-DRAIN-SCHED-NORTH-REM.dgn

HRGreen.com
Illinois Professional Design Firm
184-001322

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN SCHEDULES
PIPE REMOVAL SCHEDULE

SCALE: NTS | SHEET 4 OF 6 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	234
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

PIPE NUMBER	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE CULVERT REMOVAL 50105220	STORM SEWER REMOVAL 6" 55100200	STORM SEWER REMOVAL 8" 55100300	STORM SEWER REMOVAL 12" 55100500	STORM SEWER REMOVAL 15" 55100700	STORM SEWER REMOVAL 18" 55100900	STORM SEWER REMOVAL 21" 55101100	STORM SEWER REMOVAL 24" 55101200	STORM SEWER REMOVAL 30" 55101400	BOX CULVERT REMOVAL X1200050	TRENCH BACKFILL 20800150
			FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	CU YD
EP3-9	ES3-10	BLIND CONNECTION				34							10.5
EP3-10	BLIND CONNECTION	ES3-11				6							1.3
EP3-11	ES3-12	ES3-13					82						11.5
EP3-12	ES3-14	ES3-15				9							1.6
EP3-13	ES3-16	ES3-17				28							7.5
EP3-14	ES3-17	ES3-18				6							0.0
EP3-15	ES3-13	ES3-19					98						12.0
EP3-16	ES3-16	ES3-26						223					79.9
EP3-17	ES3-21	BLIND CONNECTION				6							1.6
EP3-18	BLIND CONNECTION	ES3-20				7							1.6
EP3-19	ES3-22	BLIND CONNECTION				16							3.5
EP3-20	ES3-19	ES3-30					203						24.7
EP3-21	BLIND CONNECTION	ES3-23				18							2.4
EP3-22	ES3-24	ES3-25				16							3.7
EP3-23	ES3-25	ES3-27				10							2.0
EP3-24	ES3-25	ES3-26				7							1.7
EP3-25	ES3-26	ES3-28				28							7.1
EP3-26	ES3-28	ES3-29				6							1.3
EP3-27	ES3-26	ES3-36					207						49.1
EP3-28	ES3-30	ES3-32					84						10.3
EP3-29	ES3-28	ES3-37					185						6.0
EP3-30	BLIND CONNECTION	ES3-31				7							1.6
EP3-31	ES3-33	BLIND CONNECTION				6							1.7
EP3-32	ES3-39	ES3-40				33							7.4
EP3-33	ES3-38	ES3-42					95						11.5
EP3-34	ES3-40	ES3-41				7							1.4
EP3-35	ES3-40	ES3-50					194						32.6
EP3-36	ES3-40	ES3-43					58						13.7
EP3-37	ES3-42	ES3-49					138						16.7
EP3-38	ES3-45	ES3-46				42							5.6
EP3-39	ES3-46	ES3-47				27							5.5
EP3-40	ES3-47	ES3-50				42							10.2
EP3-41	BLIND CONNECTION	ES3-44			9								1.1
EP3-42	BLIND CONNECTION	ES3-48				5							1.1
EP3-43	ES3-50	ES3-59						141					58.3
EP3-44	ES3-53	ES3-52				67							14.5
EP3-45	ES3-49	ES3-54					137						16.6
EP3-46	BLIND CONNECTION	ES3-51				15							2.0
EP3-47	BLIND CONNECTION	ES3-55				6							1.5
EP3-48	ES3-54	ES3-58					119						14.6
EP3-49	ES3-56	ES3-57				68							10.5
EP3-50	ES3-57	ES3-62				42							14.4
EP3-51	ES3-58	ES3-61					25						4.2
EP3-52	ES3-59	ES3-60				8							1.2
EP3-53	ES3-59	ES3-71								344			0.0
EP3-54	ES3-63	ES3-64				14							0.0
EP3-55	ES3-65	ES3-66				23							5.0
EP3-56	ES3-68	ES3-67				9							0.0
EP3-57	BLIND CONNECTION	ES3-70				11							2.6
EP3-58	ES3-69	BLIND CONNECTION				42							10.0
EP3-59	ES3-71	ES3-72				21							2.8
EP3-60	BLIND CONNECTION	ES3-73				13							3.1
EP3-61	ES3-74	BLIND CONNECTION				41							0.0
EP3-62	ES3-71	ES3-85						322					0.0
EP3-63	ES3-76	ES3-75				31							4.3
EP3-64	BLIND CONNECTION	ES3-76				17							2.6
EP3-65	ES3-77	ES3-78				51							8.9
EP3-66	ES3-78	BLIND CONNECTION				40							8.6
EP3-67	BLIND CONNECTION	ES3-79				8							1.9
EP3-68	ES3-79	ES3-80				9							0.0
EP3-69	ES3-81	BLIND CONNECTION				38							10.0
EP3-70	BLIND CONNECTION	ES3-83				20							2.7
EP3-71	ES3-83	ES3-82				9							0.8
EP3-72	ES3-84	ES3-85				37							2.9
EP3-73	ES3-85	ES3-86				13							2.9
EP3-74	ES3-87	BLIND CONNECTION				37							10.6
EP3-75	BLIND CONNECTION	ES3-88				14							14.8

PIPE NUMBER	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE CULVERT REMOVAL 50105220	STORM SEWER REMOVAL 6" 55100200	STORM SEWER REMOVAL 8" 55100300	STORM SEWER REMOVAL 12" 55100500	STORM SEWER REMOVAL 15" 55100700	STORM SEWER REMOVAL 18" 55100900	STORM SEWER REMOVAL 21" 55101100	STORM SEWER REMOVAL 24" 55101200	STORM SEWER REMOVAL 30" 55101400	BOX CULVERT REMOVAL X1200050	TRENCH BACKFILL 20800150
			FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	CU YD
EP3-76	ES3-89	ES3-90				37							9.0
EP3-77	ES3-90	ES3-91				13							3.9
EP3-78	ES3-91	ES3-92				29							5.9
EP3-79	ES3-90	ES3-93					67						15.9
EP3-80	ES3-93	ES3-94					16						3.9
EP3-81	ES3-1	ES3-2				6							1.6
EP3-82	ES3-3	ES3-4				6							2.1
EP3-83	ES3-15	ES3-16				6							1.2
EP3-84	ES3-34	ES3-35				37							9.0
EP3-85	ES3-35	ES3-36				18							3.2
EP3-86	BLIND CONNECTION	ES3-63				4							0.0
EP3-87	ES3-17	ES3-28						222					0.0
EP3-88	ES3-85	ES3-90					203						0.0
EP3-89	ES3-58	-										80	0.0
EP3-90	ES3-95	BLIND CONNECTION				49							0.0
EP3-91	ES3-30	-		47									13.2
EP3-92	ES3-24	EXISTING SEWER				23							13.2
EP3-93	ES3-97	ES3-96				38							5.1
EP3-94	ES3-96	ES3-8				38							7.4
EP3-95	ES3-30	BLIND CONNECTION				15							3.3
EP3-96	EXISTING SEWER	ES3-37		4									1.0
EP3-97	ES3-52	BLIND CONNECTION				4							1.0
EP3-98	ES3-98	ES3-34				8							1.6
EP3-99	ES3-34	S5-52				16							3.2
EP3-100	EX CB	BLIND CONNECTION		25									3.9
		SHEET 3 TOTALS	0	76	43	1493	2056	908	0	1000	0	80	873

EXISTING DRAINAGE REMOVAL PLAN SHEET 4 - IL 31 @ IL 120													
EP4-1	ES4-1	ES4-2				50							13.9
EP4-2	ES4-1	ES4-3				104							29.0
EP4-3	ES4-2	ES4-4				108							18.7
EP4-4	ES4-3	ES4-4				52							8.1
EP4-5	ES4-3	ES4-7				52							9.2
EP4-6	ES4-5	ES4-7				35							24.4
EP4-7	ES4-5	ES4-6				3							0.8
EP4-8	ES4-4	ES4-8				29							9.9
EP4-9	ES4-8	ES4-9				11							3.6
EP4-10	ES4-9	ES4-10				41							10.0
EP4-11	ES4-8	ES4-10				45							10.4
EP4-12	ES4-10	ES4-11					59						40.4
EP4-13	ES4-11	ES4-12					32						10.6
EP4-14	ES4-12	ES4-13				80							19.2
EP4-15	ES4-14	ES4-15				39							7.1
EP4-16	ES4-17	ES4-16				6							1.5
EP4-17	ES4-16	ES4-19						65					6.9
EP4-18	ES4-18	ES4-19				9							2.2
EP4-19	ES4-19	ES4-21						71					0.0
EP4-20	ES4-20	ES4-21				5							1.2
EP4-21	ES4-22	ES4-23				5							1.8
EP4-22	ES4-23	ES4-25						81					92.0
EP4-23	ES4-24	ES4-25				30							7.1
EP4-24	ES4-25	ES4-26					178						219.0
EP4-25	ES4-28	ES4-25					184						61.5
EP4-26	ES4-29	ES4-28				8							2.9
EP4-27	ES4-21	ES4-23						10					9.8
EP4-28	ES4-26	ES4-27					56						70.2
EP4-29	ES4-27	EX MH						188					206.0
		SHEET 4 TOTALS	0	0	0	712	509	415	0	0	0	0	897

EXISTING DRAINAGE REMOVAL PLAN SHEET 5 - IL 120													
EP5-1	ES5-1	ES5-2				55							45.4
EP5-2	ES5-2	ES5-3				6							9.0
EP5-3	ES5-3	ES4-16						206					215.9
EP5-4	ES5-4	BLIND CONNECTION				7							7.6
EP5-5	ES4-29	ES5-5					113						37.2
EP5-6	ES4-15	ES5-12					176						53.7
EP5-7	ES5-5	ES5-6					32						12.0
EP5-8	ES5-6	ES5-7					31						7.4

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN SCHEDULES
PIPE REMOVAL SCHEDULE

SCALE: NTS | SHEET 5 OF 6 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	235
		CONTRACT NO. 62U72		
	ILLINOIS	FED. AID PROJECT		

PIPE NUMBER	UPSTREAM STRUCTURE	DOWNSTREAM STRUCTURE	PIPE CULVERT REMOVAL 50105220	STORM SEWER REMOVAL 6" 55100200	STORM SEWER REMOVAL 8" 55100300	STORM SEWER REMOVAL 12" 55100500	STORM SEWER REMOVAL 15" 55100700	STORM SEWER REMOVAL 18" 55100900	STORM SEWER REMOVAL 21" 55101100	STORM SEWER REMOVAL 24" 55101200	STORM SEWER REMOVAL 30" 55101400	BOX CULVERT REMOVAL X1200050	TRENCH BACKFILL 20800150
			FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	CU YD
EP5-9	TO BE MAINTAINED												
EP5-10	ES5-7	ES5-12				31							8.0
EP5-11	ES5-9	BLIND CONNECTION		38									12.2
EP5-12	ES5-10	BLIND CONNECTION		37									5.2
EP5-13	ES5-11	ES5-12				36							5.5
EP5-14	ES5-12	ES5-13							259				183.9
EP5-15	ES5-13	ES5-14					37						12.2
EP5-16	ES5-14	ES5-15				52							16.7
EP5-17	ES5-15	ES5-16				97							70.7
EP5-18	ES5-16	ES5-17				36							26.3
EP5-19	ES5-17	ES5-18				56							12.1
EP5-20	ES5-19	ES5-20				29							6.3
EP5-21	ES5-20	ES5-21				4							0.9
EP5-22	ES5-21	ES5-22				31							6.7
EP5-23	ES5-23	ES5-24				51							16.4
EP5-24	ES5-24	ES5-25				13							4.2
EP5-25	ES5-25	ES5-26				24							18.3
EP5-26	ES5-27	ES5-29				38							27.7
EP5-27	ES5-28	ES5-29				11							11.2
EP5-28	ES5-29	ES5-30				12							12.3
EP5-29	ES5-30	ES5-31				180							183.1
EP5-30	ES5-31	ES5-32				11							11.6
EP5-31	ES5-33	ES5-32				6							6.3
EP5-32	ES5-32	ES5-34				54							56.7
EP5-33	ES5-34	ES5-35				29							8.1
EP5-34	ES5-17	ES5-19						145					52.0
EP5-35	ES5-19	ES5-30				76							146.6
EP5-36	ES5-37	BLIND CONNECTION				22							
EP5-37	EXIST SEWER	ES5-37		16									
		SHEET 5 TOTALS	0	91	0	967	390	351	259	0	0	0	1309
		TOTALS	117	167	43	5518	6810	2336	259	3458	1338	80	5844

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

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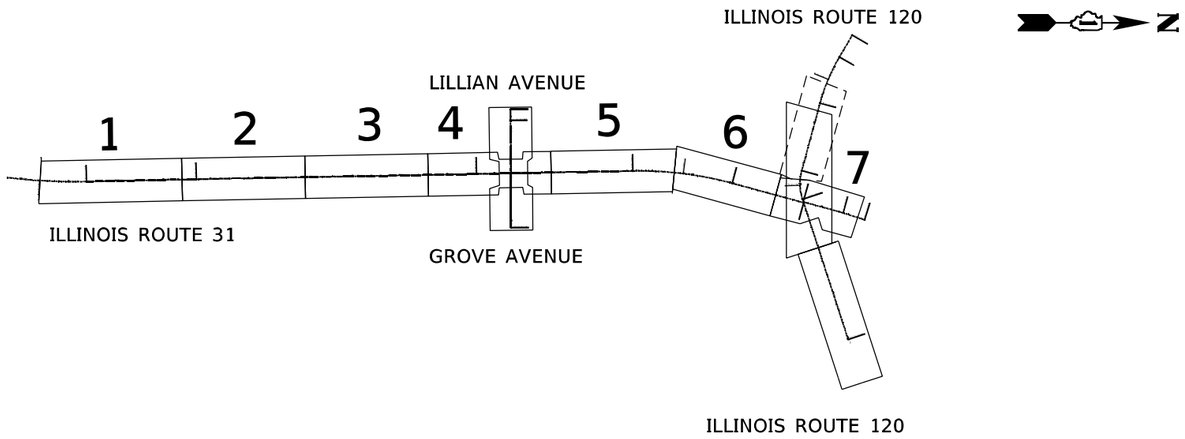
USER NAME = mzuzzio	DESIGNED - HRG	REVISED -	
	DRAWN - DMS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 12/19/2025	DATE - 04/30/2024	REVISED -	

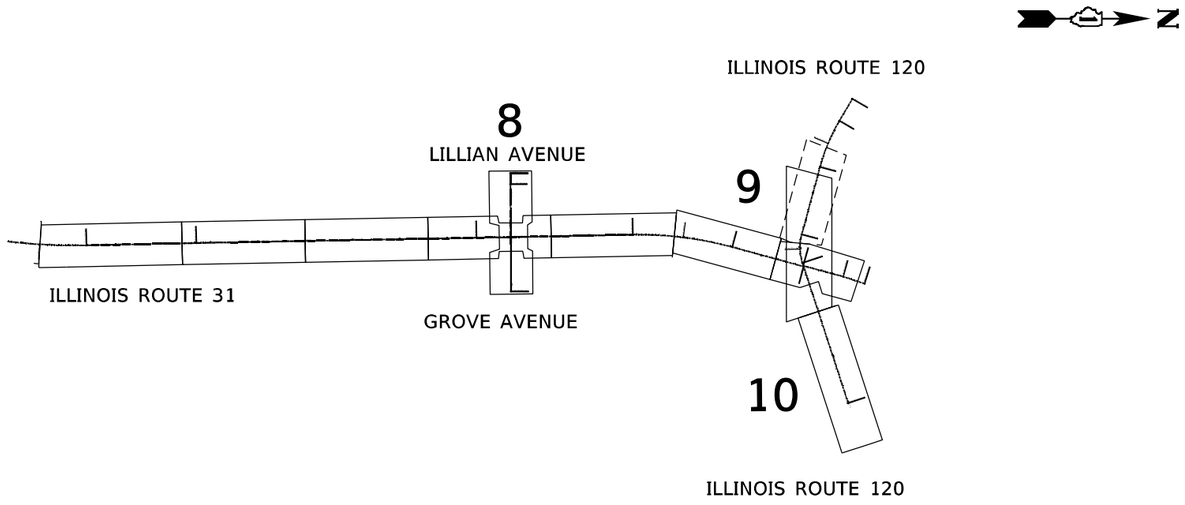
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE REMOVAL PLAN SCHEDULES
PIPE REMOVAL SCHEDULE

SCALE: NTS | SHEET 6 OF 6 SHEETS | STA. | TO STA.

F.A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	236
		CONTRACT NO. 62U72		
	ILLINOIS	FED. AID PROJECT		





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USER NAME = mzuzzio	DESIGNED - EJB	REVISED -	
	DRAWN - EJB	REVISED -	
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PLOT DATE = 12/19/2025	DATE - 04/30/2024	REVISED -	

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	FAP 336 23 RECON NORTH	McHENRY	575	237
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

END CONTRACT 80C85
BEGIN CONTRACT 62U72

℄ IL ROUTE 31

EX 24" RCP

CONNECTION TO EXIST SEWER

BEGIN ROADWAY IMPROVEMENT STA. 400+67.30

PROJECT BEGINS STA. 397+00

EX ROW

PR ROW

400+00

403+00

410+00

BANK DRIVE

DARTMOOR DRIVE

PARK PLACE

MATCHLINE STATION 412+00

792.2 - RECONSTRUCT CATCH BASIN

CONN TO EXIST SEWER

CONN TO EXIST SEWER

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 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

0 50 100 150
SCALE IN FEET

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

PROFILE
SURVEYED
PLOTTED
PROFILE CHECKED
S.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

INV. 814.00
S1-01 RIM. 818.33
INV. 807.84
P1-01 245'-24" DIA. RCP A @ 1.80%
INV. 806.46
S1-05 RIM. 811.13
INV. 803.15
INV. 803.43
P1-05 86'-24" DIA. RCP A @ 1.80%
INV. 798.84
S1-08 RIM. 807.15
INV. 797.29
INV. 796.20
P1-08 154'-24" DIA. RCP A @ 1.80%
INV. 793.43
INV. 794.91
S1-11 RIM. 799.23
INV. 785.64
P1-11 244'-24" DIA. RCP A @ 1.80%
INV. 782.27
INV. 781.25
S1-14 RIM. 786.34
S1-18 RIM. 784.89
INV. 779.56
INV. 774.84
P1-14 49'-24" DIA. RCP A @ 1.40%
INV. 774.16
INV. 771.06
P1-18 194'-24" DIA. RCP A @ 1.40%
INV. 775.04
INV. 774.46
INV. 772.30
INV. 768.34
INV. 766.49

825.16 825.90 | 824.57 825.46 | 824.67 825.02 | 824.34 824.58 | 824.00 824.14 | 823.65 823.69 | 823.23 823.25 | 822.78 822.72 | 821.57 822.00 | 820.77 821.12 | 819.78 820.06 | 818.63 818.82 | 817.28 817.41 | 815.72 815.83 | 813.98 814.07 | 812.05 812.14 | 809.98 810.03 | 807.71 807.75 | 805.28 805.29 | 802.76 802.76 | 800.21 800.22 | 797.73 797.69 | 795.13 795.15 | 792.59 792.62 | 790.05 790.08 | 787.64 787.58 | 785.27 785.21 | 783.08 782.99 | 781.17 780.93 | 779.42 779.01 | 777.76 777.25

97+00 398+00 399+00 400+00 401+00 402+00 403+00 404+00 405+00 406+00 407+00 408+00 409+00 410+00 411+00 412+00

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

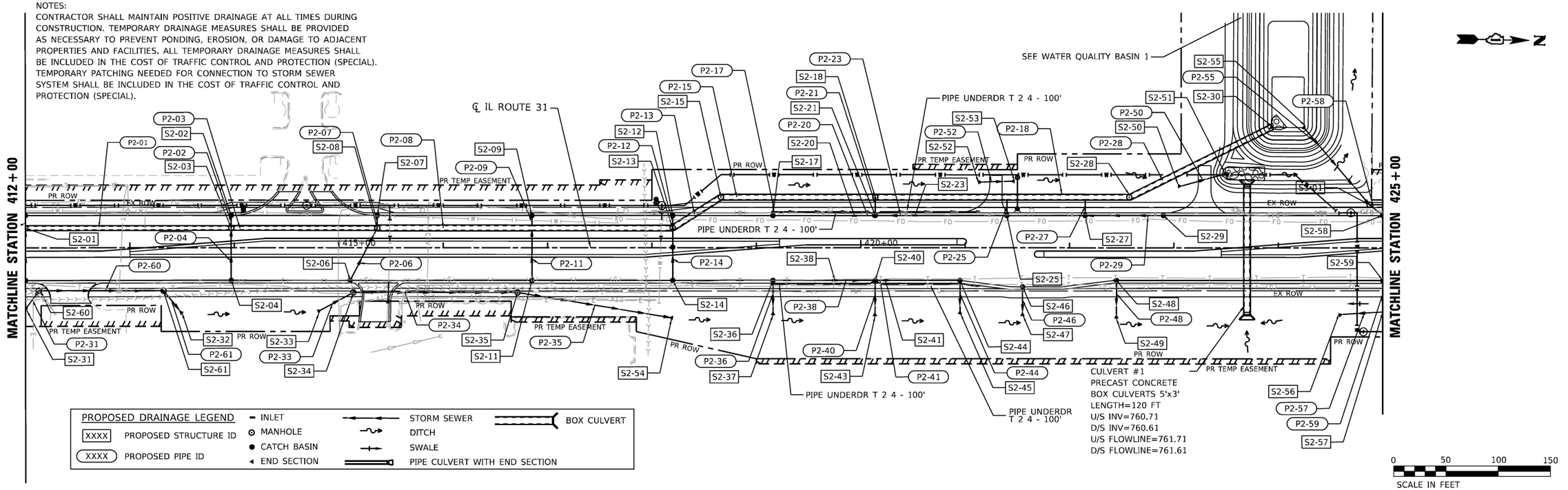
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

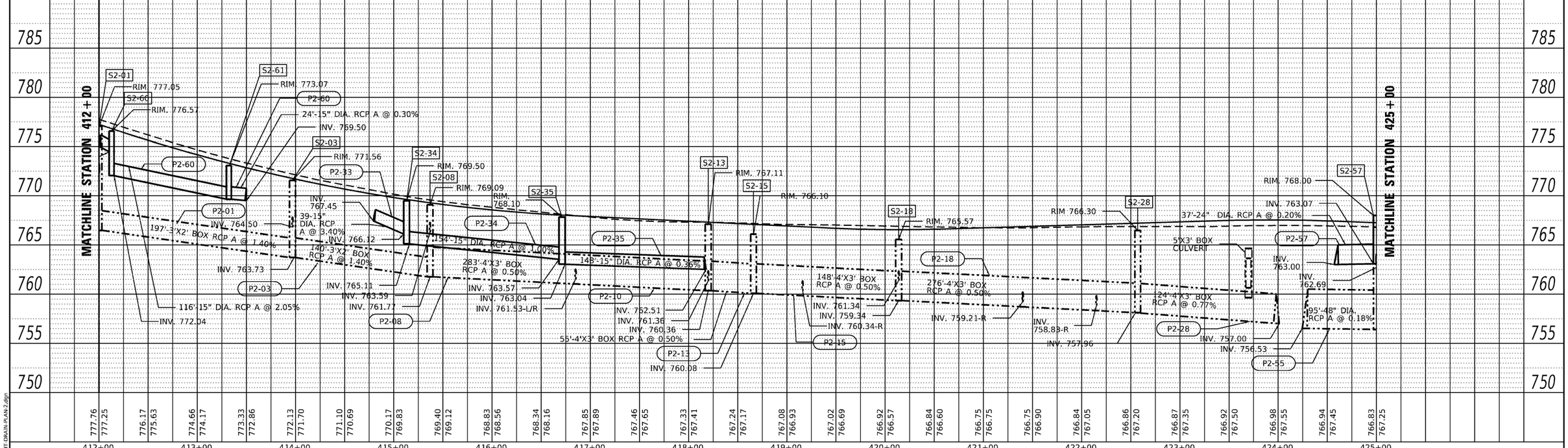
DRAINAGE PLAN AND PROFILE
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 1 OF 10 SHEETS | STA. 397+00 | TO STA. 412+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	238
		CONTRACT NO. 62U72		
		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 INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).





PLAN / PROFILE
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ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
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STRUCTURE NOTATNS CHKD
DATE
BY

MODEL: Default
FILE NAME: C2 SHT-DRAIN-PLAN-2.dgn

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PLOT DATE = 2/25/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 2 OF 10 SHEETS | STA. 412+00 | TO STA. 425+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	239
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

NOTES:
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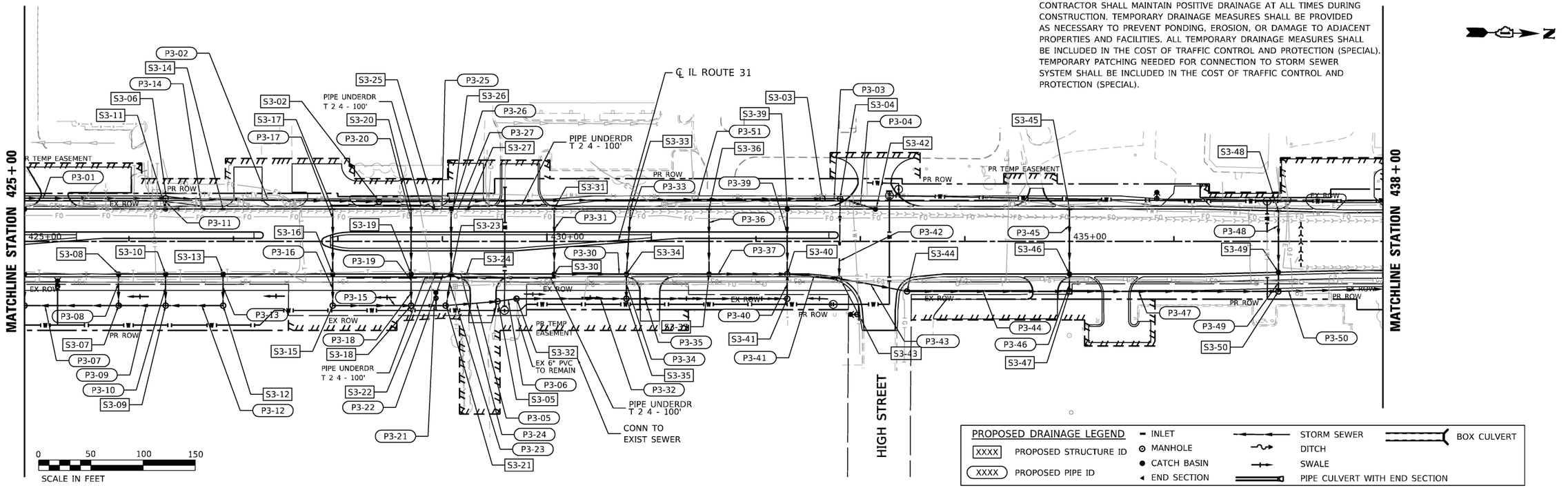

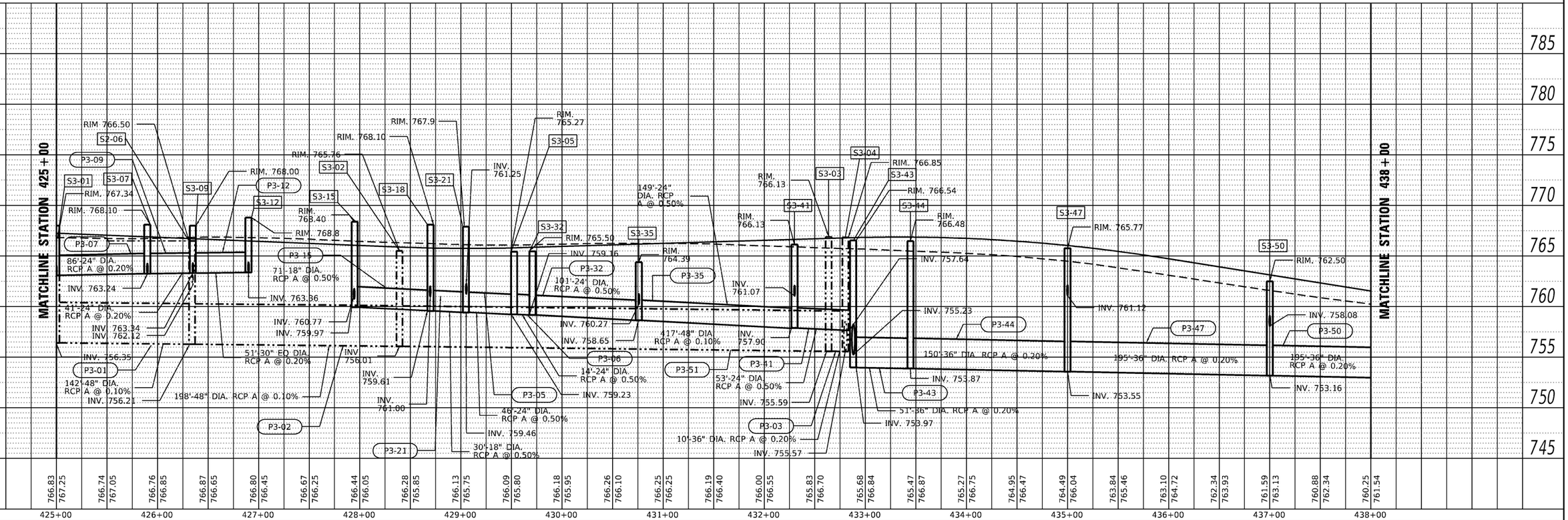

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	ALIGNMENT CHECKED	
	RT. OF WAY CHECKED	
NOTE BOOK	CADD FILE NAME	
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PROFILE	SURVEYED	DATE
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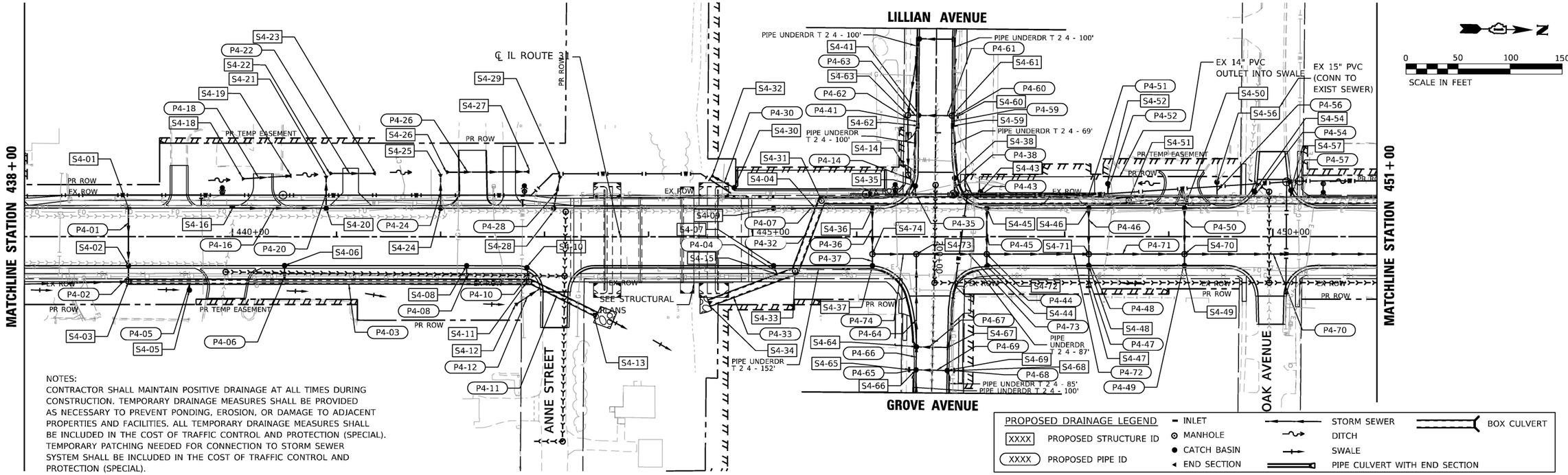
PLOT DATE = 2/25/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

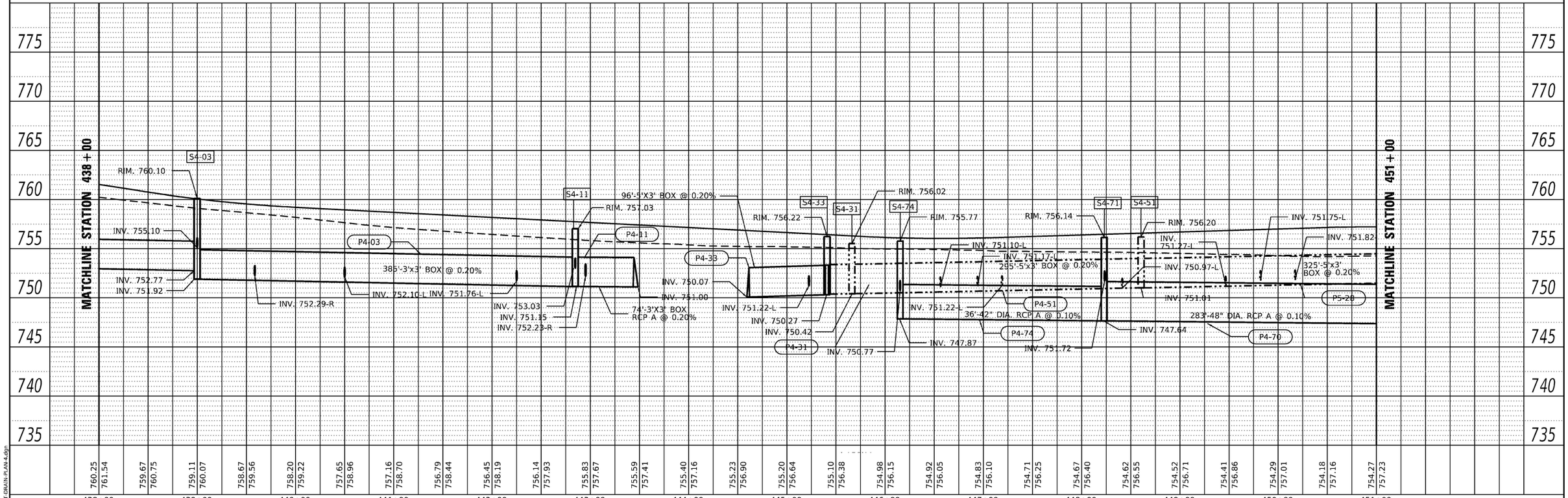
DRAINAGE PLAN AND PROFILE
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 3 OF 10 SHEETS | STA. 425+00 | TO STA. 438+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	240
		CONTRACT NO. 62U72		
		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 INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).



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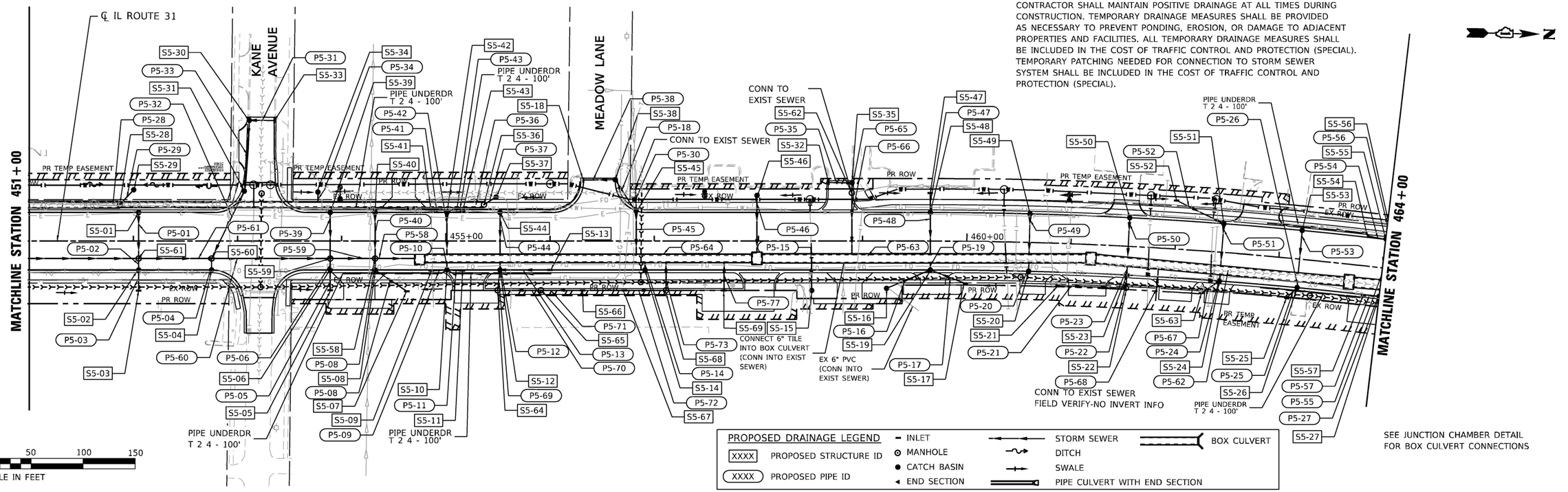

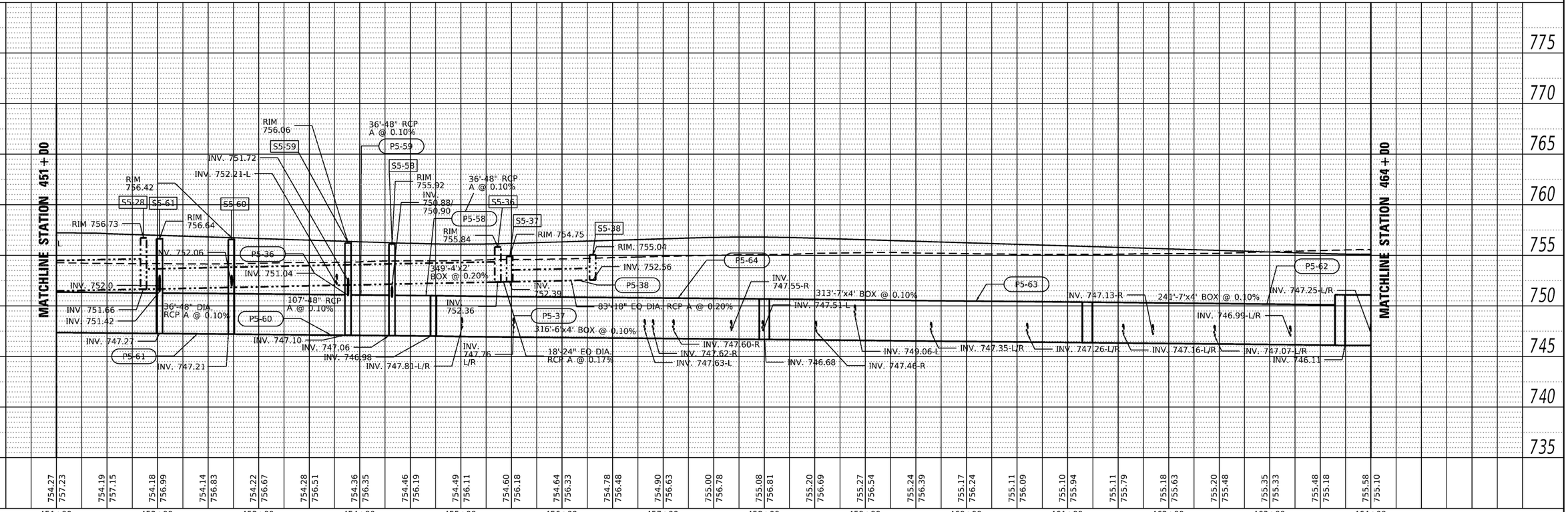

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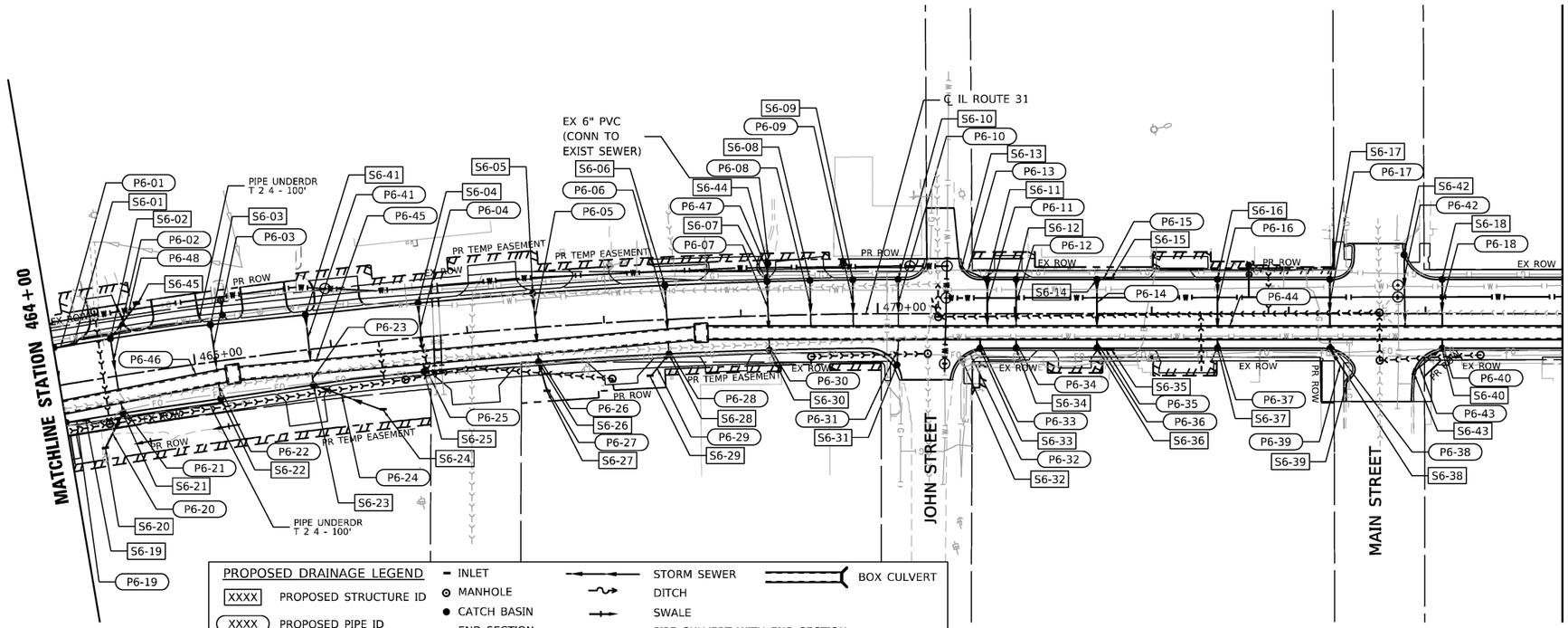

SEE JUNCTION CHAMBER DETAIL
FOR BOX CULVERT CONNECTIONS

NOTES:
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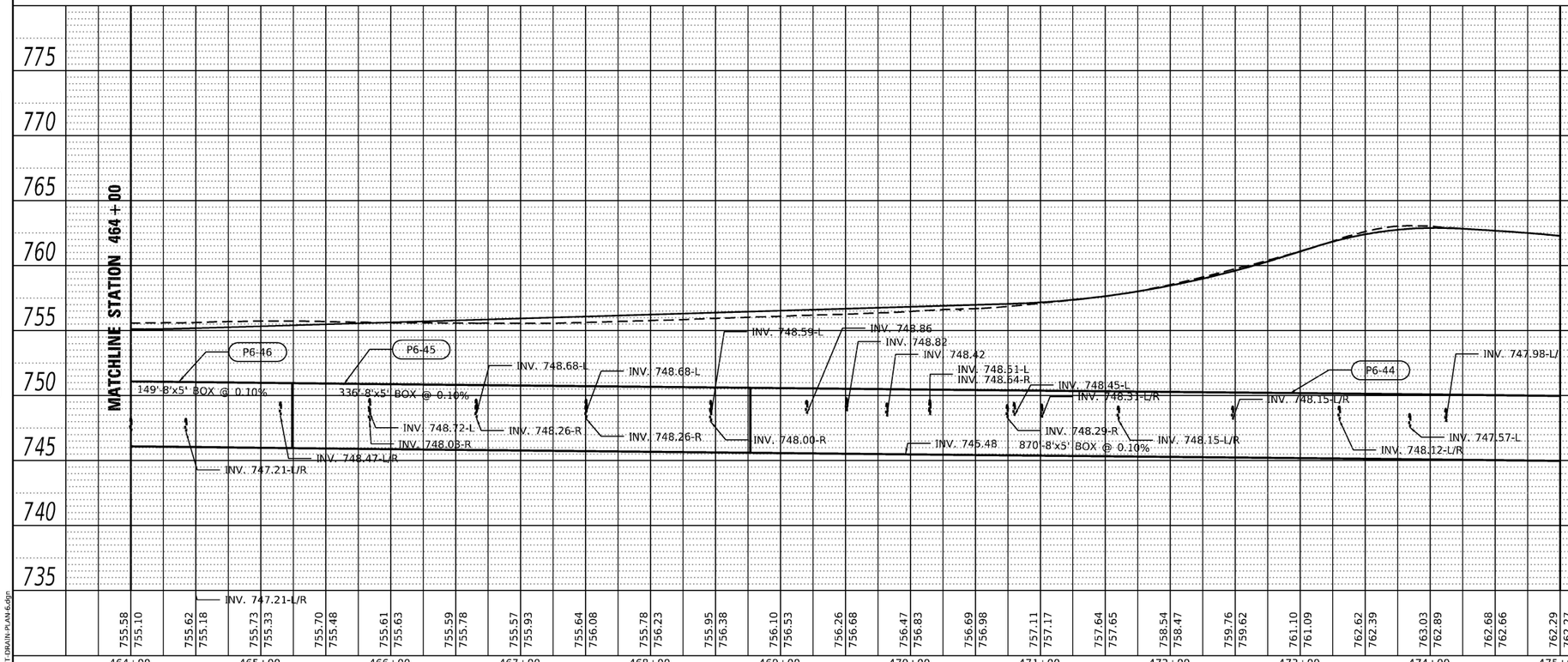
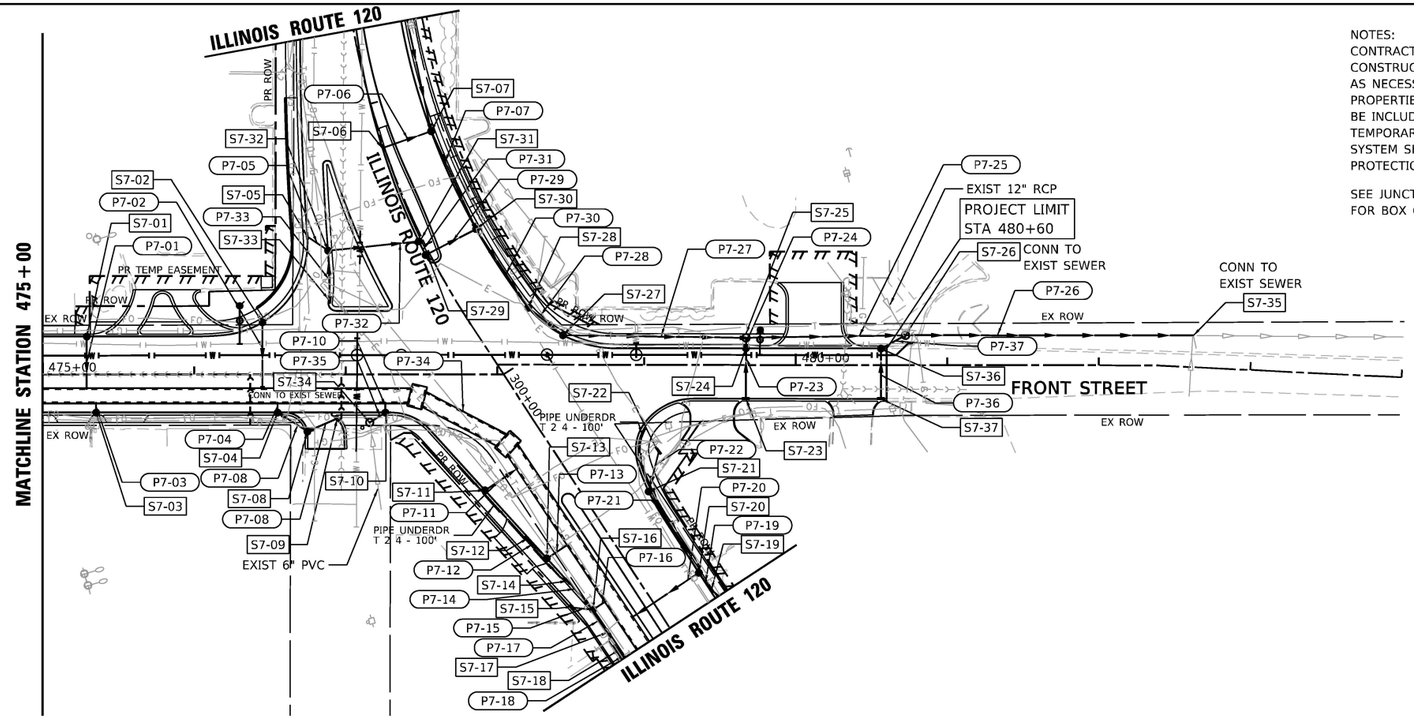
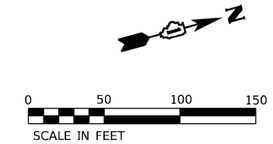


| | | |

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 INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).

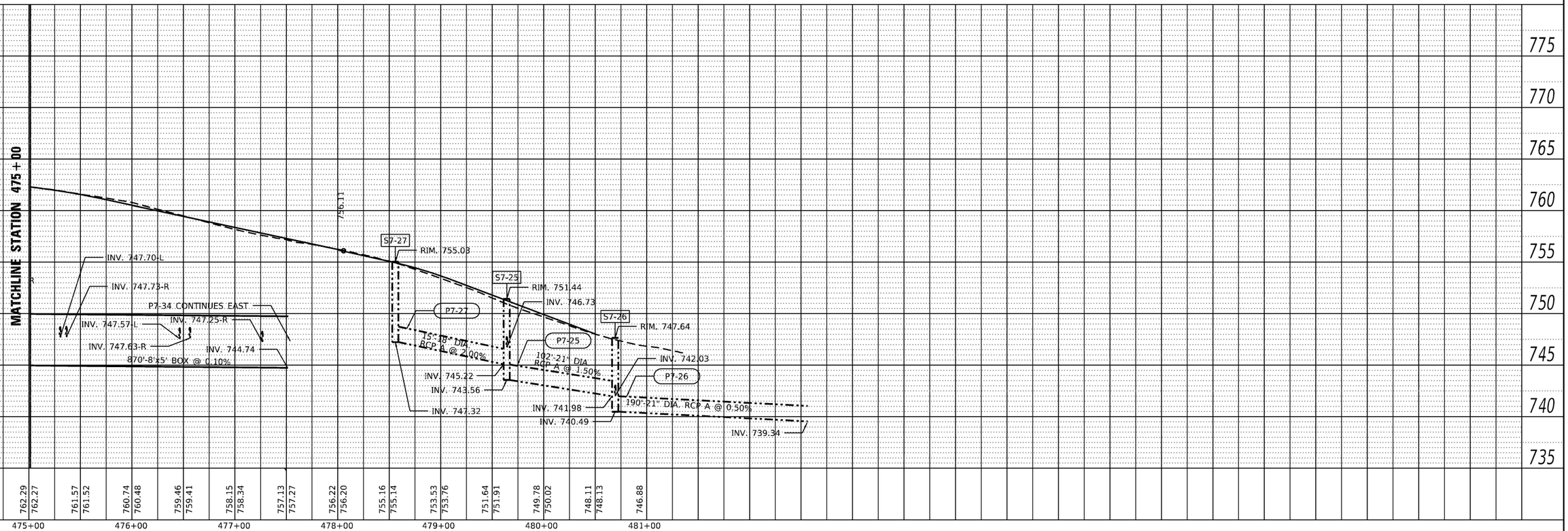
SEE JUNCTION CHAMBER DETAIL FOR BOX CULVERT CONNECTIONS





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	



PLAN
NOTE BOOK NO.
SURVEYED
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RT. OF WAY CHECKED
CADD FILE NAME
BY
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PROFILE
NOTE BOOK NO.
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PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTAT'NS CH'KD
BY
DATE

MODEL: Default
FILE NAME: C2-SHT-DRAIN-PLAN-7.dgn

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184-001322

USER NAME = mzuzzio	DESIGNED - HRG	REVISED - REVBY1	
	DRAWN - DMS	REVISED - REVBY2	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - REVBY3	
PLOT DATE = 12/19/2025	DATE - 04/30/2024	REVISED - REVBY4	

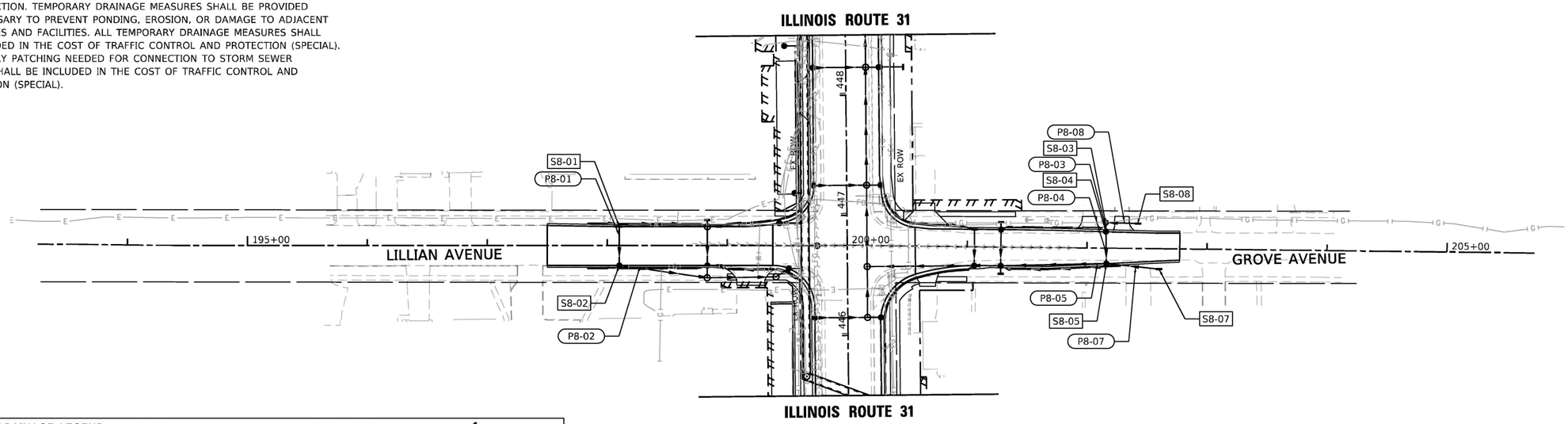
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 7 OF 10 SHEETS | STA. 475+00 TO STA. 484+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	244
		CONTRACT NO. 62U72		
		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 INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).



N

0 50 100 150
SCALE IN FEET

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

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RT. OF WAY CHECKED
CADD FILE NAME
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NOTE BOOK
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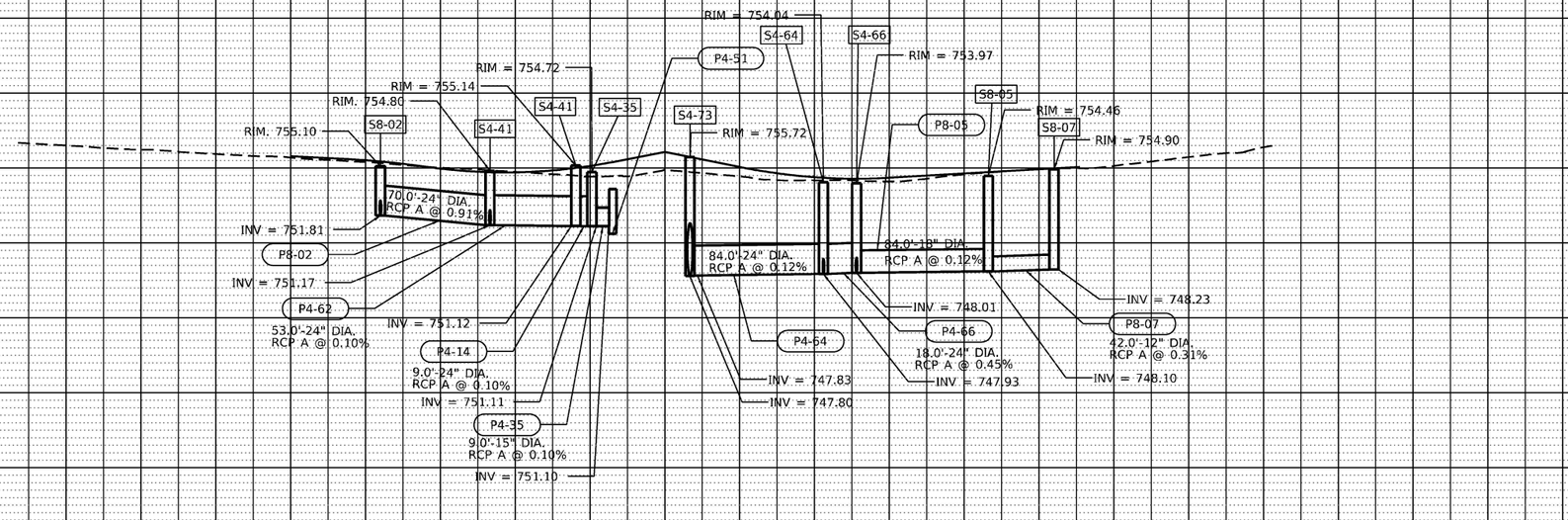

MODEL: Default
FILE NAME: C2-SHT-DRAIN-PLAN-8.dgn

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184-001322

USER NAME = mzuzzio	DESIGNED - HRG	REVISED - REVBY1
	DRAWN - DMS	REVISED - REVBY2
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - REVBY3
PLOT DATE = 12/19/2025	DATE - 04/30/2024	REVISED - REVBY4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE
LILLIAN AVENUE & GROVE AVENUE

SCALE: 1"=50' | SHEET 8 OF 10 SHEETS | STA. 193+25 | TO STA. 205+72.71

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	245
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

NOTES:
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GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
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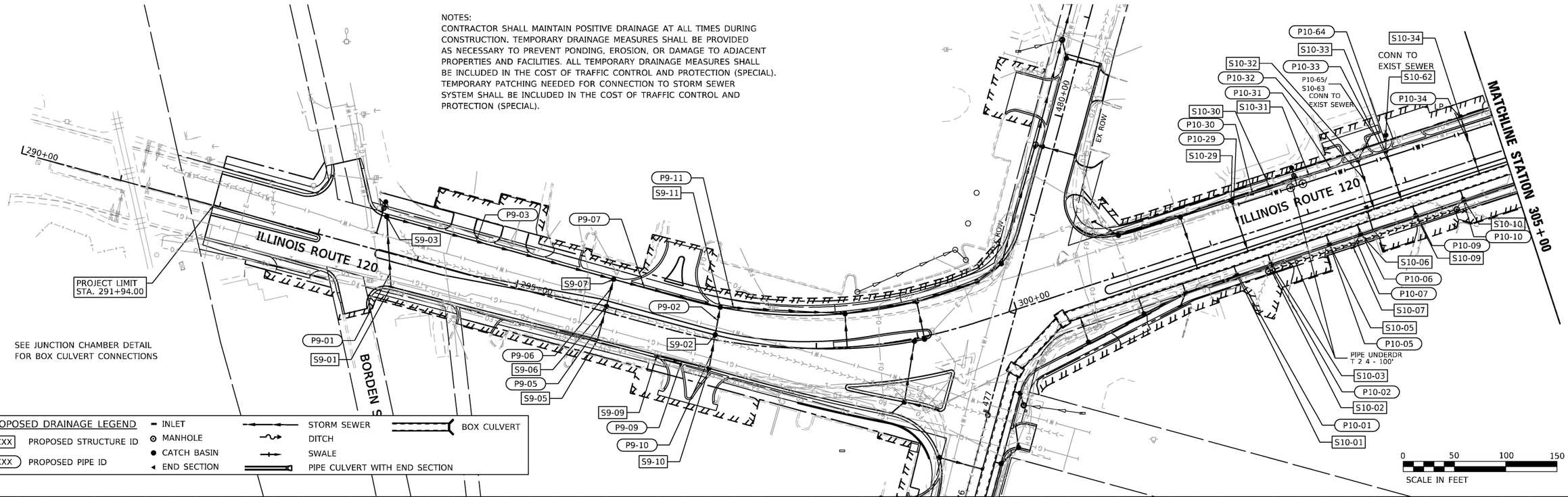

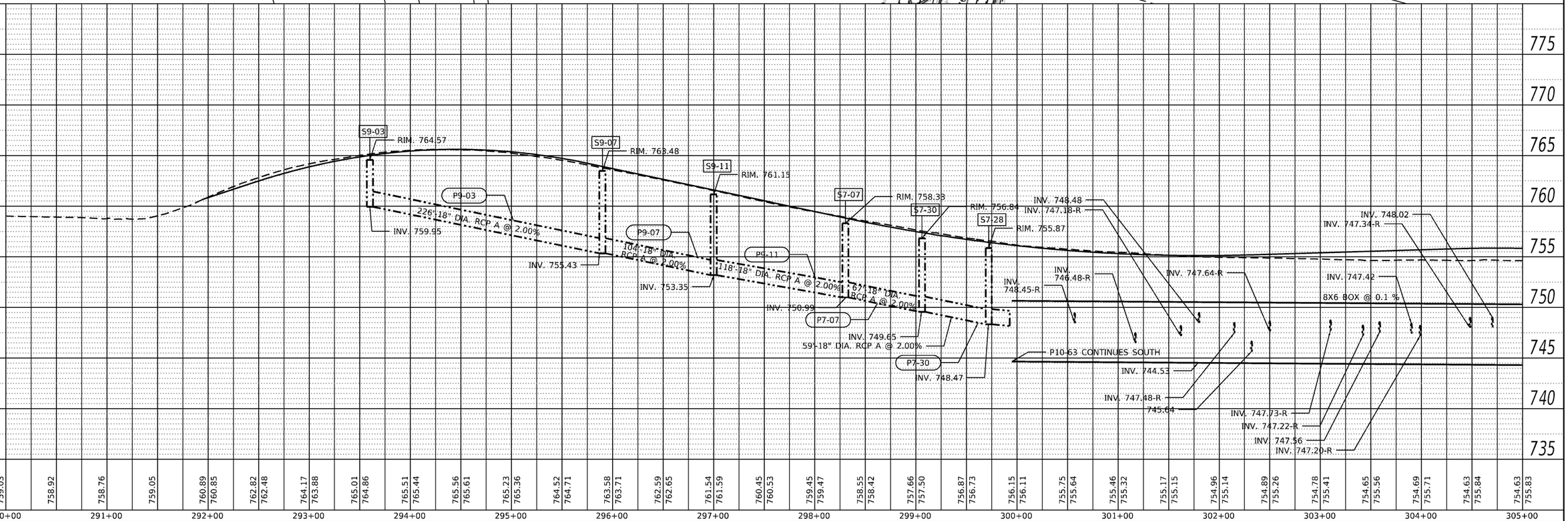

MODEL: Default
FILE NAME: C2-SHT-DRAIN-PLAN-9.dgn

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184-001322

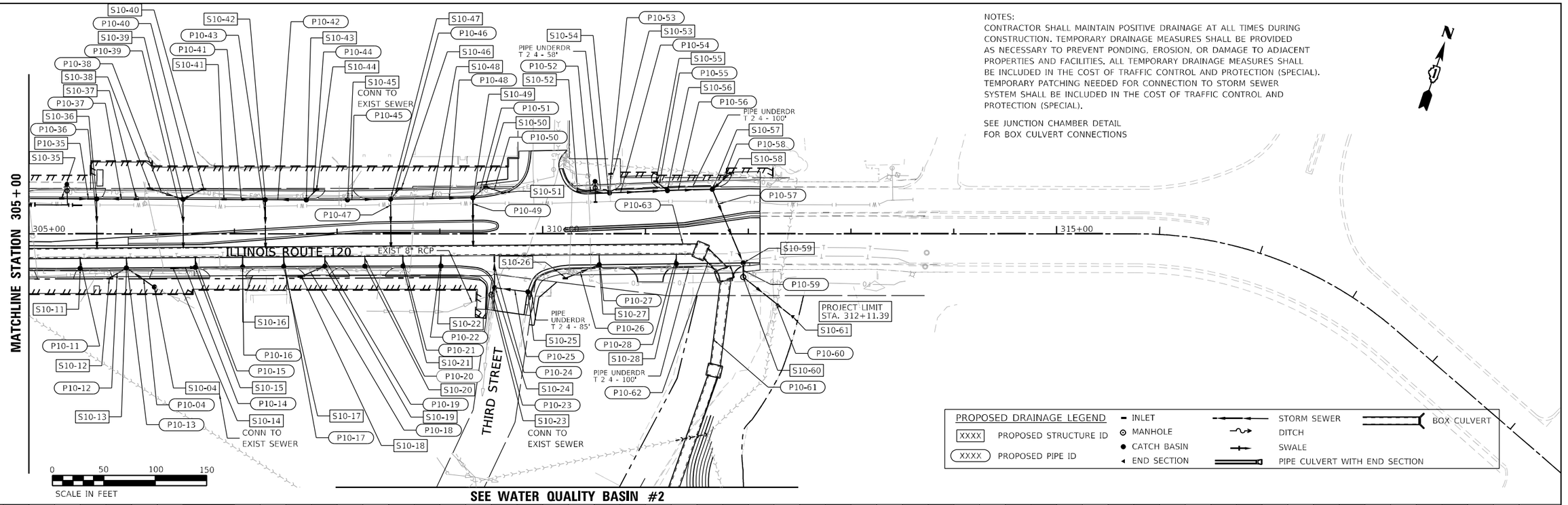
USER NAME = mzuzzio	DESIGNED - HRG	REVISED -	REVBY1
	DRAWN - DMS	REVISED -	REVBY2
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	REVBY3
PLOT DATE = 12/19/2025	DATE - 04/30/2024	REVISED -	REVBY4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE
ILLINOIS ROUTE 120

SCALE: 1"=50' | SHEET 9 OF 10 SHEETS | STA. 287+00 | TO STA. 297+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	246
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	



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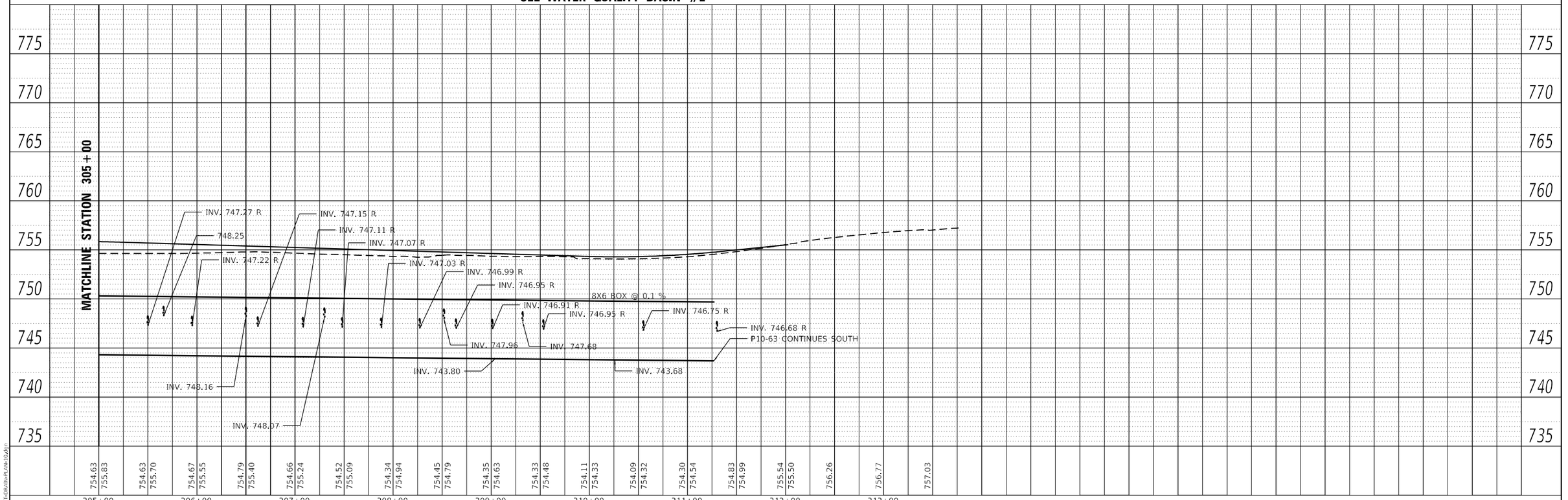
SEE JUNCTION CHAMBER DETAIL FOR BOX CULVERT CONNECTIONS



PLAN
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SURVEYED
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GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
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DATE

MODEL: Default
FILE NAME: C:\2-SHT-DRAIN-PLAN-10.dgn

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USER NAME = mzuzzio	DESIGNED - HRG	REVISED - REVBY1	
	DRAWN - DMS	REVISED - REVBY2	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - REVBY3	
PLOT DATE = 3/19/2026	DATE - 04/30/2024	REVISED - REVBY4	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE
ILLINOIS ROUTE 120

SCALE: 1"=50' | SHEET 10 OF 10 SHEETS | STA. 305+00 TO STA. 314+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	247
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

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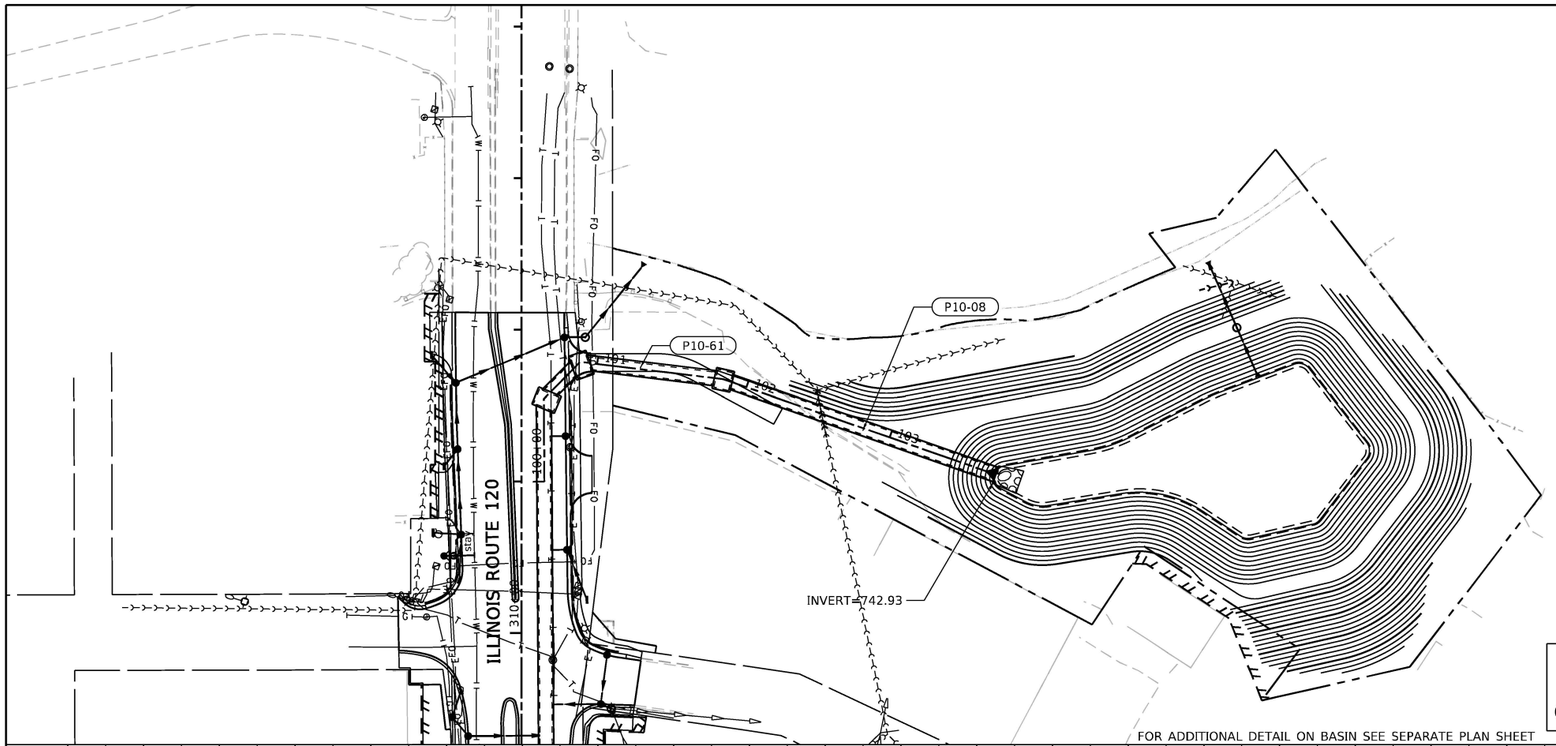
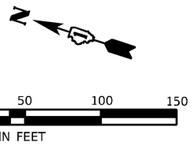
SEE JUNCTION CHAMBER DETAIL
FOR BOX CULVERT CONNECTIONS



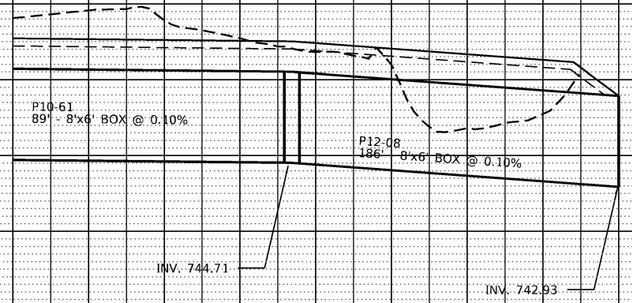
FOR ADDITIONAL DETAIL ON BASIN SEE SEPARATE PLAN SHEET



PROPOSED DRAINAGE LEGEND

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

BOX CULVERT



PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, PROFILES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

MODEL: Default
FILE NAME: C2-SHT-DRAIN-PLAN-11.dgn

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Illinois Professional Design Firm
184-001322

USER NAME = mzuzzio		DESIGNED - HRG		REVISED - REVBY1	
		DRAWN - DMS		REVISED - REVBY2	
PLOT SCALE = 100.0000 ' / in.		CHECKED -		REVISED - REVBY3	
PLOT DATE = 12/19/2025		DATE - 04/30/2024		REVISED - REVBY4	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE
ILLINOIS ROUTE 120

SCALE: 1"=50' | SHEET 10 OF 10 SHEETS | STA. 305+00 | TO STA. 314+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	248
		CONTRACT NO. 62U72		
	ILLINOIS	FED. AID PROJECT		

STR. NO.	STATION	OFFSET (FT)	PAY ITEM NO.	PAY ITEM DESCRIPTION	RIM ELEV.	INVERT ELEV.			
						NORTH	EAST	SOUTH	WEST
S1-01	402+00.00	-51.5	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	818.33	807.84	814.00	812.80	
S1-02	402+00.00	-31.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	819.61		815.40		814.07
S1-03	402+00.00	3.0	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	820.23		815.74		815.74
S1-04	402+00.00	33.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	819.45			816.04	816.04
S1-05	404+50.00	-48.6	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	811.13	798.84	806.46	803.43	
S1-06	404+50.00	-31.9	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	811.70		806.72		806.72
S1-07	404+50.00	42.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	811.42				807.42
S1-08	405+41.21	-48.6	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	807.15	796.20	803.15	797.21	802.20
S1-09	405+37.01	-31.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	807.90				803.20
S1-10	400+57.15	-50.1	X6020293	MANHOLES, TYPE A, 8'-DIAMETER, WITH 2 TYPE 1 FRAMES, CLOSED LID, RESTRICTOR PLATE	821.87	814.18 (FIELD VERIFY)	817.62 (FIELD VERIFY)	816.8 (FIELD VERIFY)	
S1-11	407+00.00	-48.6	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	799.86	785.64	794.91	793.43	
S1-12	407+00.00	-31.1	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	799.78		795.19		795.19
S1-13	407+00.00	30.9	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	799.78				795.78
S1-14	409+50.00	-49.6	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	786.34	774.84	782.27	781.25	
S1-15	409+50.00	-31.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	787.14		782.55		782.55
S1-16	409+50.00	31.2	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	787.14				783.14
S1-17	410+00.00	31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	784.68		779.70		
S1-18	410+00.00	-25.0	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	784.89	771.06	779.62	774.16	779.62
S1-19	410+00.00	34.7	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	784.68				780.18
S1-20	412+00.00	-31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	776.80		772.46		
S1-21	412+00.00	31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	776.80				772.80
S1-22	101+22.75	19.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	780.61	773.43 (FIELD		775.53	
S1-23	101+22.75	-17.8	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	781.40	778.06		NO SUE DATA	
S1-24	405+43.70	-57.3	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	805.08		802.30		
S1-25	401+15.69	68.3	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	821.30	816.96			
S2-01	412+00.00	-19.0	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	777.05	766.49	772.30	768.34	772.32
S2-02	413+97.00	-31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	771.32		766.24		
S2-03	413+97.00	-19.0	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	771.56	763.73	766.82	763.73	767.08
S2-04	413+97.00	31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	771.32				767.28
S2-06	415+11.00	31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	769.22				763.85
S2-07	415+37.00	-31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	768.85		763.75		
S2-08	415+37.00	-19.0	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	769.09	761.77	763.59	761.77	
S2-09	416+85.00	-31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	767.52		761.89		
S2-10	418+20.00	-0.7	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	767.77		761.52		761.52
S2-11	416+85.00	31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	767.52				762.47
S2-12	418+20.00	-31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	766.87		761.72		
S2-13	418+20.00	-19.0	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	767.11	760.36	761.36	760.36	761.36
S2-14	418+20.00	31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	766.87				761.82
S2-15	418+66.05	-48.6	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	766.10	760.08		760.08	
S2-17	419+16.00	-31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	766.41				760.49
S2-18	420+13.84	-48.6	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	765.57	759.34	761.34	759.34	
S2-20	419+98.84	-31.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	766.13	761.85			
S2-21	420+13.84	-31.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	766.12	761.76		761.76	761.76
S2-23	420+52.12	-31.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	766.16			761.94	
S2-25	421+40.00	-31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	766.43				759.81
S2-27	422+15.00	-31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	766.66				759.39
S2-28	422+57.20	-48.6	60224459	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	766.30	757.96	760.96	757.96	
S2-29	422+90.00	-31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	766.88				761.68
S2-30	423+94.25	-116.1	54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	-			757.00	
S2-31	412+00.00	58.3	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	-	775.04			
S2-32	413+50.00	62.7	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	-			769.50	
S2-33	414+80.00	60.9	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	-	767.45			
S2-34	415+14.00	42.6	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	769.50	765.11		766.19	
S2-35	416+71.25	42.6	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	768.10	763.04		763.57	
S2-36	419+16.00	31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	766.41		762.39		
S2-37	419+16.00	65.8	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-				762.25
S2-38	419+75.00	31.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	766.17	762.48			
S2-40	420+13.84	31.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	766.12	762.30	762.30	762.30	
S2-41	420+24.00	31.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	766.10			762.34	
S2-43	420+13.84	65.2	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-				762.16
S2-44	420+95.00	31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	766.29		762.74		
S2-45	420+95.00	63.2	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-				762.60
S2-46	421+55.00	37.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	766.23		762.12		
S2-47	421+55.00	67.0	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-				762.00
S2-48	422+44.88	31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	766.74		762.05		
S2-49	422+44.88	68.0	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-				761.93
S2-50	423+07.43	-59.6	54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	-			761.88	
S2-51	423+50.01	-71.2	54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	-	761.69			
S2-52	421+12.57	-63.0	54214503	PRECAST REINFORCED CONCRETE FLARED END SECTIONS,	-	762.69			
S2-53	421+47.29	-64.0	54214503	PRECAST REINFORCED CONCRETE FLARED END SECTIONS,	-			762.54	
S2-54	418+20.00	67.0	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	-			762.51	
S2-55	424+23.87	-115.8	54213693	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48"	-	756.53			
S2-56	424+58.00	63.1	54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	-	763.00			
S2-57	425+00.00	61.2	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	768.00	763.07		763.07	763.07
S2-58	425+00.00	-31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	766.81		762.81		
S2-59	425+00.00	31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	766.81		763.21		
S2-60	412+12.92	40.7	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	776.57	772.04		773.57	

STR. NO.	STATION	OFFSET (FT)	PAY ITEM NO.	PAY ITEM DESCRIPTION	RIM ELEV.	INVERT ELEV.			
						NORTH	EAST	SOUTH	WEST
S2-61	413+32.27	40.7	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	773.07	769.66		769.66	
S3-01	424+87.24	-41.4	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	767.34	756.35	762.69	756.35	
S3-02	428+39.32	-38.0	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	765.76	756.01		756.01	
S3-03	432+63.69	-41.1	X6020293	MANHOLES, TYPE A, 8'-DIAMETER, WITH 2 TYPE 1 FRAMES, CLOSED	766.80	755.59		755.59	
S3-04	432+80.60	-41.2	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	766.85	762.11	755.57	755.57	
S3-05	429+52.75	57.2	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	765.27	759.23		759.23	
S3-06	426+34.31	-41.2	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	766.50	756.21	762.12	756.21	
S3-07	425+90.00	61.2	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	768.10	763.24		763.24	763.24
S3-08	425+90.00	31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	766.45		763.30		
S3-09	426+35.00	54.6	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	768.00	763.34		763.34	763.34
S3-10	426+35.00	31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	766.27		763.48		
S3-11	426+35.00	-31.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	766.27		762.14		
S3-12	426+90.00	61.2	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	768.80	763.36		763.36	763.36
S3-13	426+90.00	31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	766.05		763.50		
S3-14	426+90.00	-31.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	766.05		762.40		
S3-15	427+95.00	61.2	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	768.40	759.97			760.77
S3-16	427+95.00	31.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	765.63		761.04		761.04
S3-17	427+95.00	-31.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	765.63		761.63		
S3-18	428+70.00	61.2	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	768.10	759.61		759.61	761.00
S3-19	428+70.00	31.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	765.36	761.27		761.27	
S3-20	428+70.00	-31.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	765.36		761.86		
S3-21	429+05.00	61.2	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	767.90	759.46		759.46	761.25
S3-22	428+93.33	31.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	765.32	761.57			
S3-23	429+08.00	31.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	765.31	761.51	761.51	761.51	761.51
S3-24	429+23.04	31.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	765.32			761.57	
S3-25	428+93.33	-31.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	765.32	761.87			
S3-26	429+08.00	-31.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	765.31	761.81	761.81	761.81	
S3-27	429+23.04	-31.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	765.32			761.87	
S3-30	430+07.00	31.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	765.53	761.10			761.10
S3-31	430+07.00	-31.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	765.53		761.40		
S3-32	429+70.80	54.6	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	766.50	759.16	762.60	759.16	
S3-33	430+80.00	-31.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	765.75		761.38		
S3-34	430+76.00	31.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	765.74		760.78	760.78	760.78
S3-35	430+76.00	54.6	60221700	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 8 GRATE	764.39	758.65		758.65	760.27
S3-36	431+55.00	-31.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	765.97		761.92		
S3-37	431+55.00	31.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	765.98	761.63			761.63
S3-39	432+30.00	-31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	766.20		762.14		
S3-40	432+30.00	31.0	60224039	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 24 FRAME AND GRATE	766.20	757.81	757.81	761.27	761.27
S3-41	432+30.00	54.6	60224005	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 8 GRATE	765.00			757.90	761.07
S3-42	433+14.26	-31.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	766.42			762.42	
S3-43	432+79.60	35.2	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	766.25	753.99		757.72	755.29
S3-44	433+44.60	47.6	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	766.40	753.87		753.87	
S3-45	435+00.00	-31.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	765.60		761.54		
S3-46	435+00.00	31.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	765.60		761.25		761.25
S3-47	435+00.00	47.6	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	765.77	753.55		753.55	761.12
S3-48	437+00.00	-29.2	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	762.54		758.50		
S3-49	437+00.00	29.2	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	762.54		758.22		758.22
S3-50	437+00.00	47.6	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	762.50	753.16		753.16	758.08
S4-01	439+00.00	-27.7	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	759.52		755.50		
S4-02	439+00.00	27.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	759.52		755.25		755.25
S4-03	439+00.00	43.1	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	760.10	751.92		752.77	755.10
S4-04	445+60.00	-27.5		CONNECTION INTO BOX CULVERT	-			751.40	
S4-05	439+58.54	51.1	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	757.60				752.53
S4-06	440+50.00	27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	758.41		752.66		
S4-07	445+20.00	27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	756.00		751.86		
S4-08	442+25.00	27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	757.51		752.32		
S4-09	445+20.00	-27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	756.00	752.00			
S4-10	442+83.00	29.4	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	757.21		753.15		
S4-11	442+85.03	43.1	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	757.34	751.15	753.03	751.15	753.03
S4-12	442+72.07	65.1	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	-	752.50			
S4-13	443+50.00	74.6	54001003	BOX CULVERT END SECTIONS, CULVERT NO. 3	-			751.00	
S4-14	446+49.43	-59.7	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	755.14		751.12		751.12
S4-15	445+23.38	35.7		CONNECTION INTO BOX CULVERT	-				751.22
S4-16	439+99.52	-27.5	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	758.67	754.94			
S4-18	440+09.05	-55.8	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	-	755.92			
S4-19	440+56.73	-58.7	54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	-			754.93	
S4-20	440+89.80	-27.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	758.20			754.50	754.50
S4-21	440+89.80	-60.3	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-		754.08		
S4-22	440+93.45	-60.9	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	-	754.04			
S4-23	441+37.50	-60.8	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	-			753.80	
S4-24	441+99.85	-27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	757.64				753.64
S4-25	441+99.85	-60.3	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-		753.36		
S4-26	442+05.39	-62.2	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	-	753.31			
S4-27	442+85.18	-67.6	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	-			752.67	
S4-28	443+08.68	-27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	757.08				753.02
S4-29	443+15.22	-58.6	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	-		752.42		
S4-30	444+82.17	-47.2	60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	754.36			750.36	
S4-31	445+66.32	-34.7	60224469	MANHOLES, TYPE A, 9'-DIAMETER, TYPE 1 FRAME, CLOSED LID	756.02	750.42	750.42		
S4-32	444+63.35	-57.7	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	-	750.00			
S4-33	445+40.75	32.6	60224469	MANHOLES, TYPE A, 9'-DIAMETER, TYPE 1 FRAME, CLOSED LID	756.22			750.27	750.27

MODEL: SHEET_01
FILE NAME: pw:\\patrickco-pw.bentley.com:PATRICKCO-PW-07\Documents\IDOT\22177.01\12_Design\12.3_CADD\SHEETS\C2-SHT-DRAIN-SCHED-NORTH.dgn

HRGreen.com
Illinois Professional Design Firm
184-001322

USER NAME = mzuzzio	DESIGNED - HRG	REVISED -	
	DRAWN - DMS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/25/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN SCHEDULES
STRUCTURE SCHEDULE

SCALE: NTS | SHEET 1 OF 6 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	249
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

STR. NO.	STATION	OFFSET (FT)	PAY ITEM NO.	PAY ITEM DESCRIPTION	RIM ELEV.	INVERT ELEV.			
						NORTH	EAST	SOUTH	WEST
S4-34	444+58.13	63.8	54001004	BOX CULVERT END SECTIONS, CULVERT NO. 4	-	750.00			
S4-35	446+56.26	-48.9	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	754.72		751.11		751.11
S4-36	446+15.00	-27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	755.55		751.22		
S4-37	446+15.00	27.6	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	755.55				750.91
S4-38	446+94.07	-56.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	754.90		751.34		
S4-41	446+59.50	-116.7	60204825	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 11V FRAME AND GRATE	754.40	751.21	751.21		751.40
S4-43	447+18.95	-43.4	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	755.48		751.27		
S4-44	447+25.00	28.2	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	755.64				751.64
S4-45	447+25.00	-27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	755.64		752.29		
S4-46	448+23.00	-27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	755.92		751.92		
S4-47	448+22.98	48.0	60236200	INLETS, TYPE A, TYPE 8 GRATE	753.20				752.00
S4-48	448+23.00	27.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	755.92		751.82		751.82
S4-49	449+15.00	27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	756.20				752.14
S4-50	449+15.00	-27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	756.20		752.20		
S4-51	448+61.41	-35.1	60224469	MANHOLES, TYPE A, 9'-DIAMETER, TYPE 1 FRAME, CLOSED LID	756.34	751.01		751.01	
S4-52	448+41.31	-51.1	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	752.84		751.00		
S4-54	449+81.94	-44.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	756.00		751.77		
S4-56	449+46.26	-52.5	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	753.25		751.18		FIELD VER
S4-57	450+17.19	-44.8	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	756.00		751.84		751.51
S4-59	446+92.25	-106.4	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	754.39				751.37
S4-60	446+97.14	-116.4	60236200	INLETS, TYPE A, TYPE 8 GRATE	754.81			751.33	
S4-61	446+91.50	-116.5	60219300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	754.40	751.30	751.30	751.30	
S4-62	446+59.41	-106.7	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	754.37				751.28
S4-63	446+49.20	-117.0	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	754.80	751.17	751.17		751.17
S4-64	446+57.33	105.7	60205040	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 24 FRAME AND GRATE	754.04	747.93	747.93		747.93
S4-65	446+50.33	127.6	60236200	INLETS, TYPE A, TYPE 8 GRATE	754.16	748.13			
S4-66	446+56.92	127.8	60204825	CATCH BASINS, TYPE A, 5'-DIAMETER, TYPE 11V FRAME AND GRATE	753.97	748.01	748.01	748.01	748.01
S4-67	446+88.19	106.3	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	754.07			748.03	
S4-68	446+93.14	128.5	60236200	INLETS, TYPE A, TYPE 8 GRATE	754.40			748.23	
S4-69	446+86.92	128.4	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	753.99	748.13		748.13	
S4-70	449+15.00	16.5	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	756.42	747.55	752.00	747.55	752.00
S4-71	448+23.00	16.5	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	756.24	747.64	751.72	747.64	751.72
S4-72	447+25.00	16.5	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	755.85	747.74	751.54	747.74	751.54
S4-73	446+57.33	16.5	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	755.72	747.80	747.83	747.80	
S4-74	446+15.00	16.5	60223800	MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID	755.77	747.84	750.77		750.77
S5-01	452+05.00	-27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	756.42		752.42		
S5-02	452+05.00	27.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	756.42		751.48		751.48
S5-03	452+05.00	47.2	60236200	INLETS, TYPE A, TYPE 8 GRATE	754.67				751.57
S5-04	452+75.00	27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	756.20				752.20
S5-05	453+89.00	47.0	60236200	INLETS, TYPE A, TYPE 8 GRATE	753.70				751.94
S5-06	453+89.00	27.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	755.84		751.84		751.84
S5-07	454+62.43	48.0	60236200	INLETS, TYPE A, TYPE 8 GRATE	753.50				751.01
S5-08	454+32.00	27.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	755.70		750.91		750.91
S5-09	454+86.00	28.3	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	755.56	751.52			
S5-10	455+01.00	27.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	755.56	751.46		751.46	747.96
S5-11	455+16.00	28.3	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	755.56			751.52	
S5-12	455+52.00	27.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	755.64	751.27	750.09		747.88
S5-13	455+99.93	28.5	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	755.78			751.72	
S5-14	456+91.00	27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	756.06				747.69
S5-15	458+51.08	47.2	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	754.39				748.00
S5-16	459+23.03	45.1	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	745.65	751.95	FIELD VERIFY		
S5-17	459+98.96	40.4	60236200	INLETS, TYPE A, TYPE 8 GRATE	755.61			751.95	
S5-18	456+31.95	-58.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	754.70	750.70			
S5-19	459+65.02	27.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	755.80	751.82		751.82	747.40
S5-20	460+60.06	27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	755.51				747.38
S5-21	460+88.40	40.5	60236200	INLETS, TYPE A, TYPE 8 GRATE	754.93	750.35			
S5-22	461+55.06	40.0	60219000	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	754.00			750.25	750.32
S5-23	461+55.06	27.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	755.22		750.22		747.32
S5-24	462+44.94	27.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	754.95			750.14	747.13
S5-25	463+10.82	38.5	60236200	INLETS, TYPE A, TYPE 8 GRATE	755.00		751.82		
S5-26	463+20.15	27.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	754.72		751.72		747.11
S5-27	464+00.00	27.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	754.55	750.50		750.50	747.39
S5-28	451+87.12	-35.1	60224469	MANHOLES, TYPE A, 9'-DIAMETER, TYPE 1 FRAME, CLOSED LID	756.79	751.66		751.66	751.66
S5-29	452+00.30	-49.2	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	753.26		751.67		
S5-30	453+12.33	-114.6	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	753.70	750.50	750.20		
S5-31	453+06.43	-48.1	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	755.22		747.88		749.54
S5-32	458+67.32	-56.3	60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	755.30	752.13			
S5-33	453+35.33	-115.9	60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	753.60			750.60	
S5-34	453+77.09	-47.1	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	754.03		752.12		
S5-35	458+89.47	-55.2	60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	755.40		752.03	752.03	
S5-36	455+36.52	-35.1	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	755.90	752.36		752.36	
S5-37	455+48.31	-47.0	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	754.75	752.39		752.39	
S5-38	456+62.47	-59.1	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	754.93	748.38 NE		750.42	
S5-39	453+89.00	-27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	755.84		751.84		
S5-40	454+32.00	-27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	755.70		751.70		
S5-41	454+86.00	-28.3	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	755.52	751.52			
S5-42	455+01.00	-27.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	755.56	751.46	748.59	751.46	
S5-43	455+16.00	-28.3	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	755.56			751.52	
S5-44	455+52.00	-27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	755.64		748.56		

STR. NO.	STATION	OFFSET (FT)	PAY ITEM NO.	PAY ITEM DESCRIPTION	RIM ELEV.	INVERT ELEV.			
						NORTH	EAST	SOUTH	WEST
S5-45	456+82.67	-29.3	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	756.03		748.04	748.04 (SW	752.27 (EX)
S5-46	457+98.54	-43.9	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	755.30		748.04		
S5-47	459+64.97	-46.4	60236200	INLETS, TYPE A, TYPE 8 GRATE	754.91		750.93		
S5-48	459+64.98	-27.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	755.80		747.74		750.77
S5-49	460+60.06	-27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	755.51		747.64		
S5-50	461+55.06	-27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	755.22		747.92		
S5-51	462+44.94	-27.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	754.95		747.87		749.95
S5-52	461+98.60	-46.6	60236200	INLETS, TYPE A, TYPE 8 GRATE	754.30		750.43		
S5-53	463+19.85	-27.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	754.72		747.24		
S5-54	463+85.01	-28.3	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	754.56	750.56			
S5-55	464+00.00	-27.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	754.55	750.27	747.63	750.27	750.27
S5-56	464+00.00	-45.0	60236200	INLETS, TYPE A, TYPE 8 GRATE	754.71		750.17		
S5-57	463+84.99	28.3	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	754.56	750.57			
S5-58	454+32.00	16.5	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	755.92	747.06	750.88	747.06	750.90
S5-59	453+89.00	16.5	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	756.06	747.10	751.72	747.10	751.04
S5-60	452+75.00	16.5	60224459	MANHOLES, TYPE A, 8'-DIAMETER, TYPE 1 FRAME, CLOSED LID	756.42	747.21	752.06	747.21	747.21
S5-61	452+05.00	3.2	60224446	MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID	756.64	747.27	751.42	747.27	752.00
S5-62	458+89.68	-46.3	60221100	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID	755.65	IELD VER	752.00		752.00
S5-63	462+28.20	40.3	60236200	INLETS, TYPE A, TYPE 8 GRATE	754.50	750.50			
S5-64	455+49.61	47.0	60219300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	754.33	750.25			750.25
S5-65	455+91.22	47.0	60219300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	754.37	750.63		750.63	
S5-66	456+31.22	47.0	60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	754.49			750.99	
S5-67	456+71.22	47.0	60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	754.45	750.95			
S5-68	457+11.23	47.0	60219300	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	754.56			750.58	748.58
S5-69	457+67.40	47.0	60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	754.08				748.36
S6-01	464+15.22	-27.5	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	754.56			750.33	
S6-02	464+41.68	-27.7	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	754.61	751.30	747.78		
S6-03	465+14.89	-27.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	754.83		749.83		
S6-04	466+66.23	-25.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	755.33		749.83		
S6-05	467.49.67	-25.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	755.55		750.08		
S6-06	468+45.69	-25.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	755.87		749.87		
S6-07	469+20.00	-25.0	60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	756.09		750.08		750.08
S6-08	469+51.00	-25.0	60207915	CATCH BASINS, TYPE C, TYPE 11V FRAME AND GRATE	756.18		750.18		
S6-09	469+82.00	-25.0	60207915	CATCH BASINS, TYPE C, TYPE 11V FRAME AND GRATE	756.28		749.78		
S6-10	470+14.90	-25.0	60207915	CATCH BASINS, TYPE C, TYPE 11V FRAME AND GRATE	756.37		749.87		
S6-11	470+80.00	-25.0	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	756.57		749.77	751.85	
S6-12	471+01.00	-25.0	60207915	CATCH BASINS, TYPE C, TYPE 11V FRAME AND GRATE	756.67		749.67		
S6-13	470+61.93	-33.3	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	756.41	752.57			
S6-14	471+60.00	-25.0	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	757.35	753.09	749.47		
S6-15	471+70.00	-25.0	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	757.50			753.37	
S6-16	472+48.00	-25.0	60207915	CATCH BASINS, TYPE C, TYPE 11V FRAME AND GRATE	759.07		749.57		
S6-17	473+30.00	-25.0	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	761.46		749.48		
S6-18	474+12.00	-25.0	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	762.39		749.34		
S6-19	464+15.00	27.5	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	754.56			750.57	
S6-20	464+25.52	50.4	60236200	INLETS, TYPE A, TYPE 8 GRATE	752.82				749.74
S6-21	464+42.31	27.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	754.61		749.61		747.53
S6-22	465+15.11	27.4	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	754.83				748.95
S6-23	465+83.89	25.9	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	755.06	748.41			748.31
S6-24	466+33.06	50.2	60236200	INLETS, TYPE A, TYPE 8 GRATE	753.96			748.96	
S6-25	466+65.77	25.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	755.33				747.22
S6-26	467+50.34	25.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	755.55		749.38		748.38
S6-27	467+55.15	47.4	60236200	INLETS, TYPE A, TYPE 8 GRATE	754.00				749.84
S6-28	468.46.31	25.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	755.87		749.32		748.32
S6-29	468+31.81	41.0	60236200	INLETS, TYPE A, TYPE 8 GRATE	754.98				749.98
S6-30	469+20.14	25.0	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	756.09				748.97
S6-31	470+13.91	37.2	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	756.19				749.40
S6-32	470+62.30	32.7	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	756.62	753.06			
S6-33	470+74.59	25.0	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	756.55			752.58	748.61
S6-34	471+01.00	25.0	60207915	CATCH BASINS, TYPE C, TYPE 11V FRAME AND GRATE	756.67				748.55
S6-35	471+70.00	25.0	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	757.44			753.29	
S6-36	471+60.00	25.0	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	757.35	753.22			748.35
S6-37	472+48.00	25.0	60207915	CATCH BASINS, TYPE C, TYPE 11V FRAME AND GRATE	759.07				748.39
S6-38	473+30.00	25.0	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	761.40		756.79		748.36
S6-39	473+43.17	46.2	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	762.26				757.75
S6-40	474+12.00	25.0	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	762.39		757.71		748.22
S6-41	465+84.11	-25.3	60207915	CATCH BASINS, TYPE C, TYPE 11V FRAME AND GRATE	755.08		750.08		
S6-42	473+84.20	-43.0	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	762.48		749.65		
S6-43	473+91.29	42.2	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	762.50				757.95
S6-44	469+20.70	-38.0	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	755.75		750.13		FIELD VERI
S6-45	464+65.00	-49.5	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	754.50			751.45	
S7-01	475+29.00	-25.0	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	761.42		749.06		
S7-02	476+45.00	-34.4	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	759.35		749.33		
S7-03	475+35.00	25.0	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	761.32				747.97
S7-04	476+55.00	-25.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	758.95	753.91			747.83
S7-05	298+64.61	68.4	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	758.40	754.40			
S7-06	298+30.25	1.4	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	759.00	755.00			
S7-07	298+30.25	-32.8	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	758.33		750.99	754.38	750.99
S7-08	476+74.65	-37.4	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	758.40	754.47		754.31	
S7-09	476+95.81	28.4	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	758.40			754.85	

MODEL: SHEET_02
FILE NAME: pw:\\patricksco-pw.bentley.com:PATRICKSCO-PW-02\Documents\DOT\221177.01\912_Design\12.3_CADD\SHEETS\C2-SHT-DRAIN-SCHED-NORTH.dgn

HRGreen.com
Illinois Professional Design Firm
184-001322

USER NAME = mzuzzlo	DESIGNED - HRG	REVISED -	
	DRAWN - DMS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/25/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN SCHEDULES
STRUCTURE SCHEDULE

SCALE: NTS | SHEET 2 OF 6 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	250
		CONTRACT NO. 62U72		
		ILLINOIS FED. AID PROJECT		

STR. NO.	STATION	OFFSET (FT)	PAY ITEM NO.	PAY ITEM DESCRIPTION	RIM ELEV.	INVERT ELEV.			
						NORTH	EAST	SOUTH	WEST
S7-10	477+30.00	-25.0	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	756.97			753.73	747.45
S7-11	300+57.00	52.2	60207915	CATCH BASINS, TYPE C, TYPE 11V FRAME AND GRATE	755.49	749.49			
S7-12	300+98.91	45.6	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	754.94		750.92		
S7-13	301+17.00	42.7	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	754.78	747.12			750.24
S7-14	301+37.08	39.5	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	754.66		750.66		
S7-15	301+52.86	45.7	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	755.22	751.22			
S7-16	301+62.00	35.8	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	754.70	747.54	750.08	750.78	749.74
S7-17	301+80.00	35.4	60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	754.68				750.68
S7-18	301+94.01	35.3	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	754.69		750.72		
S7-19	301+94.00	-35.9	60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	754.69				751.06
S7-20	301+80.00	-35.9	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	754.68		751.00	751.00	751.00
S7-21	300+95.96	-57.2	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	754.54		751.20		
S7-22	301+17.00	-37.7	60236200	INLETS, TYPE A, TYPE 8 GRATE	754.30		751.14		
S7-23	479+67.00	22.0	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	751.33				747.00
S7-24	479+67.00	-11.0	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	751.11		746.78		746.78
S7-25	479+67.00	-18.0	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	751.44	743.56	746.73	744.00	
S7-26	480+72.33	-19.8	60221000	MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, OPEN LID	747.57	740.49	743.26	742.03	740.71
S7-27	478+46.24	-19.6	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	755.03	745.17		747.95	
S7-28	299+72.00	-37.7	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	755.87		748.47		748.47
S7-29	299+06.00	2.8	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	757.56	753.54			753.54
S7-30	299+06.00	-34.7	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	756.84		749.65	752.84	749.65
S7-31	298+96.00	2.7	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	757.73		753.68	753.68	
S7-32	298+77.14	59.6	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	758.34	754.01	754.01	754.01	
S7-33	299+03.26	73.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	758.17				754.17
S7-34	477+15.81	31.5	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	757.87	753.85	753.85		
S7-35	482+59.7	20.9		EXISTING MANHOLE TO REMAIN				739.34	
S7-36	480+56.16	21.9	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	747.84	740.85	743.40		
S7-37	480+56.16	-10.4	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	747.70				743.70
S8-01	198+10.01	-16.4	60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	755.12			751.90	
S8-02	198+10.00	16.5	60201105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11 FRAME AND GRATE	755.10	751.81	751.81		
S8-03	202+15.36	-21.3	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	754.38		748.33	748.33	
S8-04	202+15.51	-13.8	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	754.12	748.23		748.23	
S8-05	202+16.12	12.7	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	754.46	748.10	748.10		748.10
S8-07	202+16.12	12.7	60236200	INLETS, TYPE A, TYPE 8 GRATE	754.90				748.23
S8-08	202+42.12	-20.9	60236200	INLETS, TYPE A, TYPE 8 GRATE	754.47		748.43		
S9-01	293+82.34	31.2	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	764.80	760.80			
S9-02	297+00.00	-4.7	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	761.59	757.59		757.59	
S9-03	293+60.00	-33.9	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	764.57		759.95	760.14	
S9-05	295+90.00	28.1	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	764.20	759.50			
S9-06	295+90.00	-5.6	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	763.26	759.35		759.35	
S9-07	295+90.00	-32.9	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	763.48		755.43	759.19	755.43
S9-09	296+50.00	27.2	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	763.31		759.31		
S9-10	297+00.00	28.5	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	762.25	758.29			758.29
S9-11	297+00.00	-32.1	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	761.15		753.35	757.21	753.35
S10-01	302+14.89	35.2	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	754.72	747.80			750.00
S10-02	302+49.06	43.5	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	755.20	751.20			
S10-03	302+50.00	35.0	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	754.82	747.96		750.96	
S10-04	306+22.17	51.8	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	754.20	751.33		751.89	750.00
S10-05	303+10.00	34.5	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	755.00	748.09		751.09	
S10-06	303+42.00	34.3	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	755.09	747.54		751.82	
S10-07	303+31.22	44.5	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	754.80	752.30			
S10-09	303+98.66	33.9	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	755.26	747.56			
S10-10	304+48.09	33.6	60207915	CATCH BASINS, TYPE C, TYPE 11V FRAME AND GRATE	755.39	748.35			
S10-11	305+50.00	33.5	60207915	CATCH BASINS, TYPE C, TYPE 11V FRAME AND GRATE	755.26	747.63			
S10-12	305+78.14	43.5	60236800	INLETS, TYPE A, TYPE 11 FRAME AND GRATE	755.16		751.72		
S10-13	305+95.00	33.2	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	755.12	747.58	751.04		751.04
S10-14	306+39.98	32.8	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	754.99		750.99		
S10-15	306+62.02	32.6	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	754.92	747.51			750.23
S10-16	307+08.00	32.2	60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	754.78	747.51			
S10-17	307+48.00	31.8	60207915	CATCH BASINS, TYPE C, TYPE 11V FRAME AND GRATE	754.66	747.47			
S10-18	307+64.26	41.8	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	754.58		751.05		
S10-19	307+87.81	31.5	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	754.53	747.07			750.13
S10-20	308+27.07	31.5	60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	754.42	747.03			
S10-21	308+64.00	31.4	60207915	CATCH BASINS, TYPE C, TYPE 11V FRAME AND GRATE	754.30	746.99			
S10-22	309+01.13	31.3	60207915	CATCH BASINS, TYPE C, TYPE 11V FRAME AND GRATE	754.19	747.31			
S10-23	309+49.97	59.3	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	754.19	749.43			750.84
S10-24	309+53.07	52.2	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	753.70	748.09	749.39	749.39	
S10-25	309+85.57	56.5	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	753.69				749.69
S10-26	310+21.47	42.5	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	753.99		749.99		
S10-27	310+55.00	30.1	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	753.89	747.12			749.66
S10-28	311+30.00	29.2	60208240	CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE	754.35	747.08			
S10-29	302+32.00	-35.7	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	754.77		750.08	745.64	
S10-30	302+72.00	-35.5	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	754.88				750.45
S10-31	303+12.00	-35.3	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	755.00		751.50		
S10-32	303+62.00	-35.1	60200105	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, OPEN LID	755.14	750.53		750.53	750.53
S10-33	303+90.00	-34.9	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	755.24	749.23		749.23	
S10-34	304+70.10	-43.8	60207905	CATCH BASINS, TYPE C, TYPE 11 FRAME AND GRATE	754.30			750.97	
S10-35	305+31.84	-34.2	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	755.32		751.16		
S10-36	305+66.00	-34.1	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	755.21		751.00	751.00	751.00

STR. NO.	STATION	OFFSET (FT)	PAY ITEM NO.	PAY ITEM DESCRIPTION	RIM ELEV.	INVERT ELEV.			
						NORTH	EAST	SOUTH	WEST
S10-37	306+04.66	-44.3	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	755.08				751.20
S10-38	306+17.77	-44.0	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	755.16			751.24	
S10-39	306+49.89	-33.6	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	754.96		751.00	751.00	751.00
S10-40	306+69.81	-43.8	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	755.00		751.10		
S10-41	306+90.00	-33.4	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	754.74		751.11		
S10-42	307+30.00	-33.2	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	754.71		751.00	751.00	751.00
S10-43	307+70.00	-33.0	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	754.42	751.11			751.11
S10-44	307+80.00	-43.3	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	754.66			751.15	
S10-45	308+10.00	-33.1	60206905	CATCH BASINS, TYPE C, TYPE 1 FRAME, OPEN LID	754.44	750.94	750.94		
S10-46	308+60.94	-44.1	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	754.41			750.81	
S10-47	308+51.81	-33.8	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	754.34	750.75		750.75	
S10-48	308+92.00	-34.5	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	754.22		750.29		
S10-49	309+32.00	-35.2	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	754.10	750.10		750.10	750.10
S10-50	309+44.55	-45.6	60201110	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 11V FRAME AND GRATE	754.98		750.17	750.17	
S10-51	309+62.00	-39.9	60236825	INLETS, TYPE A, TYPE 11V FRAME AND GRATE	753.83				750.22
S10-52	310+34.93	-41.0	60237470	INLETS, TYPE A, TYPE 24 FRAME AND GRATE	753.70		750.05		
S10-53	310+66.36	-59.2	60236200	INLETS, TYPE A, TYPE 8 GRATE	753.70			750.47	
S10-54	310+64.86	-39.7	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	753.92	749.83	748.67		748.97
S10-55	311+10.00	-51.1	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	754.64			750.64	
S10-56	311+21.27	-42.1	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	754.22	750.40	747.43		747.61
S10-57	311+64.92	-43.3	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	754.56	749.52		746.45	746.63
S10-58	311+84.00	-59.8	60234200	INLETS, TYPE A, TYPE 1 FRAME, OPEN LID	754.40			750.40	
S10-59	311+95.00	-28.4	60201340	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE	755.01	744.97		744.79	
S10-60	311+95.00	42.1	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	754.99	744.59	744.45		
S10-61	312+44.19	81.0	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	-	743.31			
S10-62	303+95.30	-49.8	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	754.35	750.40		750.4 *	
S10-63	303+85.5	-57.9		EXISTING MANHOLE TO REMAIN	754.22 (E	750.82 (EX)		750.62	
S12-05	312+41.80	454.7	54213705	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 60"	-	741.13			
S12-06	312+01.40	472.2	X6022112	MANHOLES, TYPE A, 10' DIAMETER, WITH 2 TYPE 1 FRAME, CLOSED	752.00	741.20		741.20	
S12-07	311+69.90	488.2	54213705	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 60"	-			741.25	
S12-08	311+07.00	306.1	54001005	BOX CULVERT END SECTIONS, CULVERT NO. 5	-	742.98			

BOX CULVERT AND BOX CULVERT END SECTION SCHEDULE

54010503	PRECAST CONCRETE BOX CULVERTS 5' X 3'		
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1		
CULVERT #	LOCATION	QUANTITY	END SECTIONS
1	423+70	120	2

54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	
STRUCTURE #	BOX CULVERT SIZE	END SECTIONS
S2-30	4' X 3'	1

54001003	BOX CULVERT END SECTIONS, CULVERT NO. 3	
STRUCTURE #	BOX CULVERT SIZE	END SECTIONS
S4-13	3' X 3'	1

54001004	BOX CULVERT END SECTIONS, CULVERT NO. 4	
STRUCTURE #	BOX CULVERT SIZE	END SECTIONS
S4-34	5' X 3'	1

54001005	BOX CULVERT END SECTIONS, CULVERT NO. 5	
STRUCTURE #	BOX CULVERT SIZE	END SECTIONS
S12-08	8' X 6'	1

JUNCTION BOX (LOCATION TO CENTER OF STRUCTURE)

STA	OFFSET	INVERT
454+75	16.5' RT	746.98
457+98.56	16.5' RT	746.68
461+19.71	13.4' RT	746.37
463+69.33	16.9' RT	746.11
465+26.50	10.7' RT	745.96
468+70.58	10.8' RT	745.62
477+47.04	14.5' RT	744.74
300+39.88	22.8' RT	743.64
311+53.64	16.6' RT	743.56
311+76.66	39.5' RT	743.53
311+66.91	133.2' RT	743.44

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

LOCATION	SQ YD
CULVERT #1	55
S2-30	35
S4-13	35
S4-34	15
S12-08	30
TOTAL	170

MODEL: SHEET_03
FILE NAME: pw:\\patrickco-pw.bentley.com:PATRICKCO-PW-07\Documents\DOT\22177.01\912_Design\12.3_CADD\SHEETS\C2-SHT-DRAIN-SCHED-NORTH.dgn

HRGreen.com
Illinois Professional Design Firm
184-001322

USER NAME = mzuzzlo		DESIGNED - HRG		REVISED -	
		DRAWN - DMS		REVISED -	
PLOT SCALE = 100.0000 ' / in.		CHECKED -		REVISED -	
PLOT DATE = 2/25/2026		DATE - 04/30/2024		REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN SCHEDULES
STRUCTURE SCHEDULE

SCALE: NTS | SHEET 3 OF 6 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	251
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

PIPE NO.	LOCATION FROM	LOCATION TO STR.	SIZE	PAY ITEM NO.	PAY ITEM DESCRIPTION	LENGTH	SLOPE (%)	TRENCH BACKFILL
P1-01	S1-01	S1-05	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	224	1.80%	0
				Z0056616	STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH	21		
P1-02	S1-02	S1-01	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	14	0.50%	1.9
P1-03	S1-03	S1-02	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	31	1.10%	8.8
P1-04	S1-04	S1-03	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	27	1.13%	4.6
P1-05	S1-05	S1-08	24	550A0710	STORM SEWERS, CLASS A, TYPE 3 24"	86	1.80%	0
P1-06	S1-06	S1-05	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	14	2.00%	1.3
P1-07	S1-07	S1-06	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	70	1.00%	15.5
P1-08	S1-08	S1-11	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	154	1.80%	15.1
P1-09	S1-09	S1-08	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	14	4.40%	1.4
P1-10	INL893	S1-08	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	4	2.53%	0
P1-11	S1-11	S1-14	24	550A0710	STORM SEWERS, CLASS A, TYPE 3 24"	223	1.80%	0
				Z0056616	STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH	21		
P1-12	S1-12	S1-11	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	14	2.00%	1.8
P1-13	S1-13	S1-12	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	59	1.00%	15.8
P1-14	S1-14	S1-18	24	550A0710	STORM SEWERS, CLASS A, TYPE 3 24"	49	1.40%	46.6
P1-15	S1-15	S1-14	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	14	2.00%	2.6
P1-16	S1-16	S1-15	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	59	1.00%	12.1
P1-17	S1-17	S1-18	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	7	2.00%	2.9
P1-18	S1-18	S2-01	24	550A0710	STORM SEWERS, CLASS A, TYPE 3 24"	173	1.40%	332.2
				Z0056616	STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH	21		
P1-19	S1-19	S1-18	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	56	1.00%	16
P1-20	S1-20	S2-01	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	848	2.00%	2.6
P1-21	S1-21	S2-01	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	50	1.00%	9.7
P1-22	S1-23	S1-22	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	34	7.44%	6.5
P1-25	S1-25	S1-04	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	90	1.02%	12.2
P2-01	S2-01	S2-03	3x2	54010302	PRECAST CONCRETE BOX CULVERTS 3' X 2'	197	1.40%	0
P2-02	S2-02	S2-03	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	8	2.00%	3.6
P2-03	S2-03	S2-05	3x2	54010302	PRECAST CONCRETE BOX CULVERTS 3' X 2'	140	1.40%	0
P2-04	S2-04	S2-03	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	46	1.00%	9.7
P2-06	S2-06	S2-05	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	52	0.50%	9.7
P2-07	S2-07	S2-08	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	8	2.00%	1.9
P2-08	S2-08	S2-10	4x3	54010403	PRECAST CONCRETE BOX CULVERTS 4' X 3'	283	0.50%	0
P2-09	S2-09	S2-10	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	9	4.00%	1.9
P2-10	S2-10	S2-13	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	14	1.14%	6
P2-11	S2-11	S2-10	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	47	2.00%	6.6
P2-12	S2-12	S2-13	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	9	4.00%	2.4
P2-13	S2-13	S2-15	4x3	54010403	PRECAST CONCRETE BOX CULVERTS 4' X 3'	55	0.50%	0
P2-14	S2-14	S2-10	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	28	1.12%	7
P2-15	S2-15	S2-16	4x3	54010403	PRECAST CONCRETE BOX CULVERTS 4' X 3'	148	0.50%	0
P2-17	S2-17	S2-16	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	15	4.00%	2.4
P2-18	S2-18	S2-24	4x3	54010403	PRECAST CONCRETE BOX CULVERTS 4' X 3'	276	0.50%	0
P2-20	S2-20	S2-21	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	17	0.50%	2.6
P2-21	S2-21	S2-18	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	3.49%	3.2
P2-23	S2-23	S2-21	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	35	0.50%	3.7
P2-25	S2-25	S2-24	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	15	4.00%	1.5
P2-27	S2-27	S2-26	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	14	4.00%	1.8
P2-28	S2-28	S2-30	4x3	54010403	PRECAST CONCRETE BOX CULVERTS 4' X 3'	124	0.77%	0
P2-29	S2-29	S2-27	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	72	3.18%	3.2
P2-31	S2-31	S2-32	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	20	7.35%	3
P2-33	S2-33	S2-34	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	37	3.40%	0.7
P2-34	S2-34	S2-35	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	133	1.00%	33.5
				Z0056610	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	21		
P2-35	S2-35	S2-54	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	148	0.36%	3
P2-36	S2-36	S2-37	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	32	0.44%	1.1
P2-38	S2-38	S2-40	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	36	0.50%	3.2
P2-40	S2-40	S2-43	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	32	0.44%	4.5
P2-41	S2-41	S2-40	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	7	0.50%	2
P2-44	S2-44	S2-45	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	32	0.44%	1.1
P2-46	S2-46	S2-47	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	27	0.44%	1.1
P2-48	S2-48	S2-49	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	32	0.40%	1.1
P2-50	S2-50	S2-51	24	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	40	0.48%	2.3
P2-52	S2-52	S2-53	14X23	550A4000	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 18"	34	0.21%	24
P2-55	S2-55	S3-01	48	550A0190	STORM SEWERS, CLASS A, TYPE 1 48"	95	0.18%	2.1
P2-57	S2-57	S2-56	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	37	0.20%	32.8
P2-58	S2-58	S3-01	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	1.00%	10.9
P2-59	S2-59	S2-57	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	28	0.50%	2.4
P2-60	S2-60	S2-61	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	116	2.05%	2.3
P2-61	S2-61	S2-32	15	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	26	0.62%	2
P3-01	S3-01	S3-06	48	550A0480	STORM SEWERS, CLASS A, TYPE 2 48"	142	0.10%	256.6
P3-02	S3-06	S3-02	48	550A0480	STORM SEWERS, CLASS A, TYPE 2 48"	198	0.10%	424.7
P3-03	S3-03	S3-04	36	550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	10	0.20%	19.9
P3-04	S3-42	S3-04	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	31	1.00%	8.7
P3-05	S3-21	S3-05	24	Z0056616	STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH	46	0.50%	73.7
P3-06	S3-05	S3-32	24	Z0056616	STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH	14	0.50%	33.4
P3-07	S3-07	S2-57	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	86	0.20%	0
P3-08	S3-08	S3-07	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	28	0.50%	2.1
P3-09	S3-09	S3-07	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	41	0.20%	6.6
P3-10	S3-10	S3-09	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	28	0.50%	2.3
P3-11	S3-11	S3-06	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	5	0.50%	9.5
P3-12	S3-12	S3-09	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	51	0.20%	0
P3-13	S3-13	S3-12	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	28	0.50%	2.5
P3-14	S3-14	S3-11	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	52	0.50%	8.2
P3-15	S3-15	S3-18	24	Z0056616	STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH	71	0.50%	0
P3-16	S3-16	S3-15	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	27	1.00%	1.3
P3-17	S3-17	S3-16	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	59	1.00%	8.4
P3-18	S3-18	S3-15	30x19	550A4100	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24"	75	0.20%	9.3
P3-19	S3-19	S3-18	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	27	1.00%	1.3
P3-20	S3-20	S3-19	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	59	1.00%	8.2
P3-21	S3-21	S3-18	24	Z0056616	STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH	30	0.50%	5.2
P3-22	S3-22	S3-23	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	0.50%	2
P3-23	S3-23	S3-21	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	26	1.00%	1.3
P3-24	S3-24	S3-23	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	0.50%	2

PIPE NO.	LOCATION FROM	LOCATION TO STR.	SIZE	PAY ITEM NO.	PAY ITEM DESCRIPTION	LENGTH	SLOPE (%)	TRENCH BACKFILL
P3-25	S3-25	S3-26	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	0.50%	2
P3-26	S3-26	S3-23	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	58	0.50%	8.2
P3-27	S3-27	S3-26	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	0.50%	2
P3-30	S3-30	S3-34	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	65	0.50%	14.9
P3-31	S3-31	S3-30	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	59	0.50%	10.9
P3-32	S3-32	S3-35	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	101	0.50%	0
P3-33	S3-33	S3-34	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	60	1.00%	13.6
P3-34	S3-34	S3-35	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	20	2.54%	2.6
P3-35	S3-35	S3-41	24	Z0056616	STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH	149	0.50%	20.4
P3-36	S3-36	S3-37	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	59	0.50%	10.9
P3-37	S3-37	S3-40	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	71	0.50%	19.3
P3-39	S3-39	S3-40	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	59	1.47%	13.4
P3-40	S3-41	S3-40	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	18	0.50%	20.4
P3-41	S3-40	S3-43	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	44	0.20%	48
P3-42	S3-04	S3-43	36	550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	70	0.40%	122.9
P3-43	S3-43	S3-44	36	Z0056622	STORM SEWER (WATER MAIN REQUIREMENTS) 36 INCH	60	0.20%	123.1
P3-44	S3-44	S3-47	36	550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	150	0.20%	57.5
P3-45	S3-45	S3-46	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	59	0.50%	10.8
P3-46	S3-46	S3-47	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	13	1.00%	2.6
P3-47	S3-47	S3-50	36	550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	175	0.20%	50.1
				Z0056622	STORM SEWER (WATER MAIN REQUIREMENTS) 36 INCH	20		
P3-48	S3-48	S3-49	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	56	0.50%	10.1
P3-49	S3-49	S3-50	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	14	1.00%	2.6
P3-50	S3-50	S4-03	36	550A0450	STORM SEWERS, CLASS A, TYPE 2 36"	195	0.20%	10.5
P3-51	S3-02	S3-03	48	550A0480	STORM SEWERS, CLASS A, TYPE 2 48"	417	0.10%	801.9
P4-01	S4-01	S4-02	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	52	0.50%	9.6
P4-02	S4-02	S4-03	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	12	1.25%	2.8
P4-03	S4-03	S4-04	3x3	54010303	PRECAST CONCRETE BOX CULVERTS 3' X 3'	385	0.20%	0
P4-04	S4-07	S4-15	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	8	8.00%	2
P4-05	S4-05	S4-04	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	6	4.00%	0
P4-06	S4-06	S4-07	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	14	4.00%	2.1
P4-07	S4-09	S4-04	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	40	1.50%	8
P4-08	S4-08	S4-09	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	14	4.00%	1.9
P4-10	S4-10	S4-11	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	14	0.87%	2.3
P4-11	S4-11	S4-13	3x3	54010303	PRECAST CONCRETE BOX CULVERTS 3' X 3'	72	0.20%	0
P4-12	S4-12	S4-11	15	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	12	1.00%	0
				Z0056610	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	15		
P4-14	S4-14	S4-35	24	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	9	0.10%	5.8
P4-16	S4-16	S4-20	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	87	0.50%	11.9
P4-18	S4-18	S4-19	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	48	2.06%	2.5
P4-20	S4-20	S4-21	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	27	1.55%	0.7
P4-22	S4-22	S4-23	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	37	0.65%	1.6
P4-24	S4-24	S4-25	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	28	0.10%	0.7
P4-26	S4-26	S4-27	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	80	0.80%	4.2
P4-28	S4-28	S4-29	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	30	2.00%	0.8
P4-30	S4-30	S4-33	18	Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	24	1.50%	0
P4-32	S4-31	S4-33	5X3 BOX	54010503	PRECAST CONCRETE BOX CULVERTS 5' X 3'	72	0.20%	0
P4-33	S4-33	S4-34	5X3 BOX	54010503	PRECAST CONCRETE BOX CULVERTS 5' X 3'	84	0.32%	0
P4-35	S4-35	S4-40	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	10	0.10%	1.6
P4-36	S4-36	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	40	1.12%	8.2
P4-37	S4-37	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	7	2.00%	1.1
P4-38	S4-38	S4-42	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	18	1.00%	2.7
P4-41	S4-41	S4-62	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	7	1.00%	1
P4-43	S4-43	BOX	15	Z0056610	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	5	1.00%	0.7
P4-44	S4-44	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	8	1.25%	1.2
P4-45	S4-45	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	40	1.87%	5.1
P4-46	S4-46	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	40	0.50%	6.6
P4-47	S4-47	S4-48	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	18	1.00%	1.3
P4-48	S4-48	BOX	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	6	1.70%	1.1
P4-49	S4-49	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	7	2.00%	1.1
P4-50	S4-50	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	40	0.50%	6.6
P4-51	S4-51	S4-42	5X3 BOX	54010503	PRECAST CONCRETE BOX CULVERTS 5' X 3'	295	0.20%	0
P4-52	S4-52	BOX	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	12	0.37%	0.4
P4-54	S4-54	BOX	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	6	0.30%	0.4
P4-56	S4-56	BOX	15	Z0056610	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	14	0.30%	1.9
P4-57	S4-57	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	7	0.30%	1.1
P4-59	S4-59	S4-61	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	7	1.00%	1
P4-60	S4-60	S4-61	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	3	1.00%	0.4
P4-61	S4-61	S4-41	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	23	0.70%	4
				Z0056610	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	10		
P4-62	S4-62	S4-35	24	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	32	0.10%	6.2
				Z0056616	STORM SEWER (WATER MAIN REQUIREMENTS) 24 INCH	21		
P4-63	S4-63	S4-41	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	6	1.70%	0.8
P4-64	S4-64	S4-39	24	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	84	0.12%	14.9
P4-65	S4-65	S4-66	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	4	3.00%	2.6
P4-66	S4-66	S4-64	24	550A0410	STORM SEWERS, CLASS A, TYPE 2 24"	18	0.45%	8.5
P4-67	S4-67	S4-64	15	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	27	0.37%	12
P4-68	S4-68	S4-69	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	4	2.50%	2.6
P4-69	S4-69	S4-66	15	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	27	0.44%	11.7
P4-70	S4-70	S5-61	48	550A0480	STORM SEWERS, CLASS A, TYPE 2 48"	283	0.10%	355.6
P4-71	S4-71	S4-70	48	550A0480	STORM SEWERS, CLASS A, TYPE 2 48"	85	0.10%	102.2
P4-72	S4-72	S4-71	42	550A0470	STORM SEWERS, CLASS A, TYPE 2 42"	92	0.10%	101.9
P4-73	S4-73	S4-72	42	550A0470	STORM SEWERS, CLASS A, TYPE 2 42"	62	0.10%	62.5
P4-74	S4-74	S4-73	42	550A0470	STORM SEWERS, CLASS A, TYPE 2 42"	36	0.10%	39.2
P5-01	S5-01	S5-61	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	40	1.00%	6.6
P5-02	S5-02	S5-61	15	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	6	1.00%	2
P5-03	S5-03	S5-02	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	17	0.50%	1.3
P5-04	S5-04	S5-60	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	7	2.00%	1.3
P5-05	S5-05	S5-06	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	17	0.53%	2.3
P5-06	S5-06	S5-59	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	6	1.67%	1.4
P5-07	S5-07	S5-58	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	34	0.30%	4.9
P5-08	S5-08	BOX	15	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	6	0.50%	1.9
P5-09	S5-09	S5-10	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	12	0.50%	2.4

MODEL: SHEET_04
FILE NAME: pw:\\pat:rickco-pw.bentley.com:PATRICKCO-PW-02\Documents\IDOT\22177.01\R12 Design\12.3 CADD\SHEETS\C2-SHT-DRAIN-SCHED-NORTH.dgn

HRGreen.com
Illinois Professional Design Firm # 184-001322

USER NAME = mzuzzio	DESIGNED - HRG	REVISED -	
	DRAWN - DMS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/25/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN SCHEDULES
PIPE SCHEDULE

SCALE: NTS | SHEET 4 OF 6 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	252
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

PIPE NO.	LOCATION FROM	LOCATION TO STR.	SIZE	PAY ITEM NO.	PAY ITEM DESCRIPTION	LENGTH	SLOPE (%)	TRENCH BACKFILL
P5-10	S5-10	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	6	2.00%	1.2
P5-11	S5-11	S5-10	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	0.50%	2.1
P5-12	S5-12	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	6	2.00%	1.8
P5-13	S5-13	S5-12	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	45	1.00%	7.8
P5-14	S5-14	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	7	1.00%	2.3
P5-15	S5-15	BOX	15	Z0056610	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	27	2.00%	3.8
P5-16	S5-16	S5-19	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	43	0.30%	3.2
P5-17	S5-17	S5-19	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	33	0.39%	2.3
P5-18	S5-38	S5-45	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	13	1.00%	27
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	21		
P5-19	S5-19	BOX	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	5	1.00%	1.7
P5-20	S5-20	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	6	2.00%	2
P5-21	S5-21	S5-22	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	63	0.30%	4.8
P5-22	S5-22	S5-23	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	11	0.91%	1.9
P5-23	S5-23	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	8	2.00%	1.5
P5-24	S5-24	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	6	1.00%	1.8
P5-25	S5-25	S5-26	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	23	0.43%	6.4
P5-26	S5-26	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	6	2.00%	1.4
P5-27	S5-27	BOX	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	7	2.00%	1.4
P5-28	S5-28	S4-58	5X3 BOX	54010503	PRECAST CONCRETE BOX CULVERTS 5' X 3'	325	0.20%	0
P5-29	S5-29	S5-28	15	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	13	0.30%	1
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	5		
P5-30	S5-45	EX PIPE	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	20	FV	10.9
P5-31	S5-33	S5-30	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	6	0.50%	2.8
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	15		
P5-32	S5-31	S5-60	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	67	1.00%	8.9
P5-33	S5-30	S5-31	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	66	1.00%	8.8
P5-34	S5-34	BOX	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	8	0.30%	0.3
P5-35	S5-32	S5-62	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	20	0.50%	2.7
P5-36	S5-36	S5-35	4X2 BOX	54010402	PRECAST CONCRETE BOX CULVERTS 4' X 2'	349	0.20%	0
P5-37	S5-37	S5-36	19X30	550A4100	STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24"	18	0.17%	0
P5-38	S5-18	S5-38	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	23	1.00%	12
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	5		
P5-39	S5-39	S5-59	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	40	2.00%	5.1
P5-40	S5-40	S5-58	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	40	2.00%	5.1
P5-41	S5-41	S5-42	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	0.50%	2.4
P5-42	S5-42	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	39	2.00%	5.2
P5-43	S5-43	S5-42	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	0.50%	2.1
P5-44	S5-44	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	40	2.00%	11.2
P5-45	S5-45	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	41	1.00%	12
P5-46	S5-46	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	41	1.00%	13.1
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	12		
P5-47	S5-47	S5-48	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	11	1.00%	1.2
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	5		
P5-48	S5-48	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	39	1.00%	11.7
P5-49	S5-49	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	38	1.00%	11.1
P5-50	S5-50	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	38	2.00%	11.4
P5-51	S5-51	BOX	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	40	2.00%	10.9
P5-52	S5-52	S5-51	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	27	1.20%	2.2
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	21		
P5-53	S5-53	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	41	1.00%	12.3
P5-54	S5-54	S5-55	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	2.42%	2.1
P5-55	S5-55	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	28	1.00%	1.4
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	10		
P5-56	S5-56	S5-55	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	15	2.93%	3.6
P5-57	S5-57	S5-27	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	0.60%	1.9
P5-58	S5-58	J. CMBR	48	550A0480	STORM SEWERS, CLASS A, TYPE 2 48"	36	0.10%	42.1
P5-59	S5-59	S5-58	48	550A0480	STORM SEWERS, CLASS A, TYPE 2 48"	36	0.10%	50.3
P5-60	S5-60	S5-59	48	550A0480	STORM SEWERS, CLASS A, TYPE 2 48"	86	0.10%	139.8
				Z0056626	STORM SEWER (WATER MAIN REQUIREMENTS) 48 INCH	21		
P5-61	S5-61	S5-60	48	550A0480	STORM SEWERS, CLASS A, TYPE 2 48"	63	0.10%	89.9
P5-62	J. CMBR	J. CMBR	7X4 BOX	54010704	PRECAST CONCRETE BOX CULVERTS 7' X 4'	241	0.10%	0
P5-63	J. CMBR	J. CMBR	7X4 BOX	54010704	PRECAST CONCRETE BOX CULVERTS 7' X 4'	313	0.10%	0
P5-64	J. CMBR	J. CMBR	6X4 BOX	54010604	PRECAST CONCRETE BOX CULVERTS 6' X 4'	316	0.10%	0
P5-65	S5-35	S5-62	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	6	0.50%	0.8
P5-66	S5-65	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	57	5.16%	11
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	15		
P5-67	S5-63	S5-24	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	18	2.00%	6.6
P5-68	EX CB	BOX	(FIELD VERI	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	31	FV	5
P5-69	S5-64	S5-12	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	16	1.00%	11.7
P5-70	S5-65	S5-64	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	38	1.00%	9.8
P5-71	S5-66	S5-65	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	36	1.00%	7.8
P5-72	S5-67	S5-68	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	37	1.00%	12.7
P5-73	S5-68	J. CMBR	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	26	3.00%	16.5
P5-74	S5-69	J. CMBR	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	27	3.00%	18.8
P6-01	S6-01	S5-55	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	0.50%	2.1
P6-02	S6-02	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	39	4.00%	10.6
P6-03	S6-03	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	34	4.00%	5.1
P6-04	S6-04	BOX	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	34	4.00%	6.6
P6-05	S6-05	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	35	4.00%	5.2
P6-06	S6-06	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	32	4.00%	6.7
P6-07	S6-07	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	33	4.00%	6.9
P6-08	S6-08	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	34	4.00%	7.1
P6-09	S6-09	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	34	4.00%	7.8
P6-10	S6-10	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	34	4.00%	7.8
P6-11	S6-11	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	18	4.00%	8.5
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	15		
P6-12	S6-12	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	19	4.00%	8.5
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	15		
P6-13	S6-13	S6-11	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	18	4.00%	3.9
P6-14	S6-14	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	18	4.00%	9.2
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	15		

PIPE NO.	LOCATION FROM	LOCATION TO STR.	SIZE	PAY ITEM NO.	PAY ITEM DESCRIPTION	LENGTH	SLOPE (%)	TRENCH BACKFILL
P6-15	S6-15	S6-14	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	7	4.00%	1.4
P6-16	S6-16	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	19	4.00%	12
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	15		
P6-17	S6-17	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	19	4.00%	25.1
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	15		
P6-18	S6-18	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	34	4.00%	31.1
P6-19	S6-19	S5-27	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	0.60%	1.9
P6-20	S6-20	S6-21	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	26	0.50%	1.8
P6-21	S6-21	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	8	4.00%	1.3
P6-22	S6-22	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	4.00%	1.3
P6-23	S6-23	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	7	4.00%	2.1
P6-24	S6-24	S6-23	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	55	1.00%	7.3
P6-25	S6-25	BOX	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	6	4.00%	1.9
P6-26	S6-26	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	6	2.00%	2.3
P6-27	S6-27	S6-26	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	23	2.00%	2.8
P6-28	S6-28	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	8	4.00%	2.4
P6-29	S6-29	S6-28	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	19	3.47%	3.5
P6-30	S6-30	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	8	4.00%	2.3
P6-31	S6-31	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	19	4.00%	4.3
P6-32	S6-32	S6-33	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	4.00%	2
P6-33	S6-33	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	7	4.00%	2.6
P6-34	S6-34	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	6	4.00%	1.9
P6-35	S6-35	S6-36	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	7	1.00%	1.3
P6-36	S6-36	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	5	4.00%	2.9
P6-37	S6-37	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	6	4.00%	5.1
P6-38	S6-38	S6-39	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	6	4.00%	13.1
P6-39	S6-39	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	24	4.00%	3.5
P6-40	S6-40	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	6	4.00%	7.9
P6-41	S6-41	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	34	4.00%	5.1
P6-42	S6-42	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	40	4.00%	43.7
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	12		
P6-43	S6-43	S6-40	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	24	1.00%	8.1
P6-44	J. CMBR	J. CMBR	8X5 BOX	54010805	PRECAST CONCRETE BOX CULVERTS 8' X 5'	870	0.10%	0
P6-45	J. CMBR	J. CMBR	8X5 BOX	54010805	PRECAST CONCRETE BOX CULVERTS 8' X 5'	336	0.10%	0
P6-46	J. CMBR	J. CMBR	8X5 BOX	54010805	PRECAST CONCRETE BOX CULVERTS 8' X 5'	149	0.10%	0
P6-47	S6-44	S6-07	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	10	0.50%	0
P6-48	S6-45	S6-02	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	17	0.50%	13.3
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	12		
P7-01	S7-01	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	22	4.00%	28.3
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	12		
P7-02	S7-02	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	23	4.00%	27.9
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	21		
P7-03	S7-03	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	6	4.00%	4.7
P7-04	S7-04	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	5	4.00%	5.4
P7-05	S7-05	S7-32	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	14	2.78%	3
P7-06	S7-06	S7-07	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	31	2.00%	5.1
P7-07	S7-07	S7-30	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	67	2.00%	61.5
P7-08	S7-08	S7-04	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	20	2.00%	5.2
P7-09	S7-09	S7-08	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	19	2.00%	3
P7-10	S7-10	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	5	4.00%	3.2
P7-11	S7-11	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	26	4.00%	5.6
P7-12	S7-12	S7-13	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	17	4.00%	3.7
P7-13	S7-13	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	16	4.00%	5.1
P7-14	S7-14	S7-16	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	23	4.00%	5.6
P7-15	S7-15	S7-16	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	11	4.00%	2.2
P7-16	S7-16	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	9	4.00%	3.1
P7-17	S7-17	S7-16	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	15	4.00%	3.5
P7-18	S7-18	S10-01	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	18	4.00%	4.1
P7-19	S7-19	S7-20	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	11	0.50%	1.5
P7-20	S7-20	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	37	4.00%	10.5
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	15		
P7-21	S7-21	S7-20	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	59	0.34%	7.4
P7-22	S7-22	S7-21	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	28	0.50%	3.7
P7-23	S7-23	S7-24	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	30	0.73%	6.5
P7-24	S7-24	S7-25	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	7	3.00%	1.67
P7-25	S7-25	S7-26	21	Z0056614	STORM SEWER (WATER MAIN REQUIREMENTS) 21 INCH	102	1.50%	76.1
P7-26	S7-26	EX MH	21	Z0056614	STORM SEWER (WATER MAIN REQUIREMENTS) 21 INCH	190	0.50%	52.3
P7-27	S7-27	S7-25	18	Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	117	1.00%	85.7
P7-28	S7-28	S7-27	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	26	2.00%	38.8
P7-29	S7-29	S7-30	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	35	2.00%	5.8
P7-30	S7-30	S7-28	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	59	2.00%	56.9
P7-31	S7-31	S7-29	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	7	2.00%	1.6
P7-32	S7-32	S7-31	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	57	0.58%	10.4
P7-33	S7-33	S7-32	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	30	0.53%	5.6
P7-34	J. CMBR	J. CMBR	8X6 BOX	54010805	PRECAST CONCRETE BOX CULVERTS 8' X 5'	63	0.10%	0
P7-35	S7-34	S7-10	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	8	1.50%	106
P7-36	S7-37	S7-36	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	12	1.00%	1.6
P7-37	S7-36	S7-26	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	12	1.00%	1
P8-01	S8-01	S8-02	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	30	0.30%	5.8
P8-02	S8-02	S4-63	15	550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	70	0.91%	17.5
P8-03	S8-03	S8-04	15	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	4	2.50%	2.8
P8-04	S8-04	S8-05	15	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	23	0.57%	17.6
P8-05	S8-05	S4-66	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	84	0.11%	82.6
P8-07	S8-07	S8-05	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	42	0.31%	34.9
P8-08	S8-08	S8-03	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	24	0.42%	18
P9-01	S9-01	S9-03	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	66	1.00%	21
P9-02	S9-02	S9-11	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	11	1.60%	4.3
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	13		
P9-03	S9-03	S9-07	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	205	2.00%	148.9
				Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	21		
P9-05	S9-05	S9-06	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	31	0.50%	6.6

MODEL: SHEET_05
FILE NAME: pw:\\pat-tickco-pw.bentley.com:PATRICKCO-PW-02\Documents\IDOT\22177.01\Sl\12 Design\12.3 CAD\SHEETS\C2-SHT-DRAIN-SCHED-NORTH.dgn

HRGreen.com
Illinois Professional Design Firm # 184-001322

USER NAME = mzuzzio	DESIGNED - HRG	REVISED -	
	DRAWN - DMS	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 2/25/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN SCHEDULES
PIPE SCHEDULE

SCALE: NTS | SHEET 5 OF 6 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	253
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

PIPE NO.	LOCATION FROM	LOCATION TO STR.	SIZE	PAY ITEM NO.	PAY ITEM DESCRIPTION	LENGTH	SLOPE (%)	TRENCH BACKFILL
P9-06	S9-06	S9-07	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	11	0.50%	4.9
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	13		
P9-07	S9-07	S9-11	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	104	2.00%	105.3
P9-09	S9-09	S9-10	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	51	2.00%	8.1
P9-10	S9-10	S9-02	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	33	2.00%	5.1
P9-11	S9-11	S7-07	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	118	2.00%	110.1
P10-01	S10-01	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	8	4.00%	2.6
P10-02	S10-02	S10-03	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	6	4.00%	1.6
P10-03	S10-03	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	8	4.00%	2.6
P10-04	S10-04	S10-13	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	29	1.00%	1.5
P10-05	S10-05	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	9	4.00%	2.6
P10-06	S10-06	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	8	4.00%	3
P10-07	S10-07	S10-06	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	4.00%	2.3
P10-08	S10-08	S10-09	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	10	4.00%	1.4
P10-09	S10-09	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	9	4.00%	2.3
P10-10	S10-10	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	9	4.00%	2.6
P10-11	S10-11	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	10	4.00%	2.4
P10-12	S10-12	S10-13	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	17	4.00%	5.7
P10-13	S10-13	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	9	4.00%	3.1
P10-14	S10-14	S10-15	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	19	4.00%	4.3
P10-15	S10-15	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	9	4.00%	3.3
P10-16	S10-16	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	10	4.00%	2.9
P10-17	S10-17	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	10	4.00%	2.9
P10-18	S10-18	S10-19	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	23	4.00%	3.5
P10-19	S10-19	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	10	4.00%	3.1
P10-20	S10-20	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	10	4.00%	2.9
P10-21	S10-21	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	10	4.00%	2.9
P10-22	S10-22	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	10	4.00%	2.9
P10-23	S10-23	S10-24	12	550A0340	STORM SEWERS, CLASS A, TYPE 2 12"	4	1.00%	2.9
P10-24	S10-24	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	31	4.00%	6.3
P10-25	S10-25	S10-24	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	30	1.00%	8.5
P10-26	S10-26	S10-27	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	33	1.00%	8.5
P10-27	S10-27	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	9	4.00%	2.6
P10-28	S10-28	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	10	4.00%	2.9
P10-29	S10-29	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	37	0.50%	9.2
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	15		
P10-30	S10-30	S10-29	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	37	1.00%	11.4
P10-31	S10-31	S10-32	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	41	5.00%	11.2
P10-32	S10-32	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	35	5.83%	11.2
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	15		
P10-33	S10-33	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	35	4.00%	11
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	15		
P10-34	S10-34	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	38	5.00%	11
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	21		
P10-35	S10-35	S10-36	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	31	0.50%	4.3
P10-36	S10-36	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	34	5.73%	10.6
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	14		
P10-37	S10-37	S10-36	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	36	0.56%	8.5
P10-38	S10-38	S10-39	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	31	0.77%	8
P10-39	S10-39	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	30	6.76%	10.4
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	17		
P10-40	S10-40	S10-39	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	20	0.50%	5.2
P10-41	S10-41	S10-42	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	37	0.30%	9.4
P10-42	S10-43	S10-42	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	37	0.30%	7.2
P10-43	S10-42	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	30	6.51%	11.1
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	15		
P10-44	S10-44	S10-43	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	0.30%	2.5
P10-45	S10-45	S10-47	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	38	0.50%	10.2
P10-46	S10-46	S10-47	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	11	0.50%	1.6
P10-47	S10-47	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	45	6.20%	11.1
P10-48	S10-48	S10-49	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	37	0.50%	10.2
P10-49	S10-49	BOX	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	37	5.26%	10.2
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	12		
P10-50	S10-51	S10-50	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	16	0.30%	4.1
P10-51	S10-50	S10-49	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	13	0.50%	10.1
P10-52	S10-52	S10-54	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	27	4.00%	5.9
P10-53	S10-53	S10-54	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	16	4.00%	2.6
P10-54	S10-54	S10-56	15	Z0056610	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	53	2.00%	21.4
P10-55	S10-55	S10-56	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	12	2.00%	2.6
P10-56	S10-56	S10-57	15	550A0360	STORM SEWERS, CLASS A, TYPE 2 15"	35	2.00%	35.8
				Z0056610	STORM SEWER (WATER MAIN REQUIREMENTS) 15 INCH	5		
P10-57	S10-57	S10-59	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	53	2.00%	90.3
				Z0056612	STORM SEWER (WATER MAIN REQUIREMENTS) 18 INCH	21		
P10-58	S10-58	S10-57	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	22	4.00%	5.4
P10-59	S10-59	S10-60	18	550A0380	STORM SEWERS, CLASS A, TYPE 2 18"	10	2.00%	19.3
P10-60	S10-60	S10-61	18	550A0090	STORM SEWERS, CLASS A, TYPE 1 18"	57	2.00%	18.2
P10-61	J. CMBR	J. CMBR	8X6 BOX	54010806	PRECAST CONCRETE BOX CULVERTS 8' X 6'	89	0.10%	0
P10-62	J. CMBR	J. CMBR	8X6 BOX	54010806	PRECAST CONCRETE BOX CULVERTS 8' X 6'	29	0.10%	0
P10-63	J. CMBR	J. CMBR	8X6 BOX	54010806	PRECAST CONCRETE BOX CULVERTS 8' X 6'	1110	0.10%	0
P10-64	S10-62	S10-33	12	Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	12	0.30%	
P10-65	S10-63	S10-32	12	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	25	0.30%	
				Z0056608	STORM SEWER (WATER MAIN REQUIREMENTS) 12 INCH	5		
P12-06	S12-06	S12-05	60	550A0210	STORM SEWERS, CLASS A, TYPE 1 60"	35	0.20%	0
P12-07	S12-07	S12-06	60	550A0210	STORM SEWERS, CLASS A, TYPE 1 60"	30	0.20%	0
P12-08	J. CMBR	J. CMBR	8X6 BOX	54010806	PRECAST CONCRETE BOX CULVERTS 8' X 6'	186	0.25%	0

PIPE UNDERDRAIN SCHEDULE

STR. NO.	PAY ITEM	PAY ITEM DESCRIPTION	LENGTH (FT)	INVERT ELEV. NORTH	INVERT ELEV. EAST	INVERT ELEV. SOUTH	INVERT ELEV. WEST
S2-20	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	200	763.46		763.46	
S2-40	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	200	763.45		763.45	
S3-23	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	200	762.64		762.64	
S3-25	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	100			762.65	
S3-27	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	100	762.65			
S4-41	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	100				751.98
S4-59	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	69		751.96		
S4-61	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	100				751.98
S4-62	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	71		751.96		
S4-64	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	152				751.62
S4-66	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	100		751.56		
S4-67	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	87				751.62
S4-69	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	85		751.56		
S5-10	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	200	752.79		752.79	
S5-42	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	200	752.79		752.79	
S5-54	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	100			751.89	
S5-57	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	100			751.89	
S6-01	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	100	751.89			
S6-19	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	100	751.89			
S7-14	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	100				751.99
S7-17	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	100		752.01		
S7-19	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	100		752.02		
S7-20	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	100				752.01
S10-27	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	185		751.22		751.22
S10-54	60108204	PIPE UNDERDRAINS, TYPE 2, 4"	158		751.25		751.25
	TOTALS:	PIPE UNDERDRAINS, TYPE 2, 4"	3107				

CONNECTION TO EXISTING SEWER (X0322463)

STRUCTURE	EACH	TYPE
S1-01	1	24" RCP
S1-10	2	24" RCP
S1-22	1	15" RCP
S1-23	1	15" RCP
S3-32	1	6" PVC
S4-56	1	15" PVC
P5-30	1	12" RCP
S5-16	1	6" PVC
S5-22	1	FV
S5-62	1	12" FV
P5-63	1	6" TILE
P5-68	1	FV
S6-44	1	6" PVC
S7-26	1	12" RCP
S7-34	1	6" PVC
S7-35	1	-
S10-04	1	8" CMP
S10-23	1	8" RCP
S10-45	1	3" PVC
S10-62	1	6" FV
S10-63	1	-
TOTAL	22	

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

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HRGreen.com
Illinois Professional Design Firm # 184-001322

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PLOT DATE = 2/25/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN SCHEDULES
PIPE SCHEDULE

SCALE: NTS | SHEET 6 OF 6 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	254
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

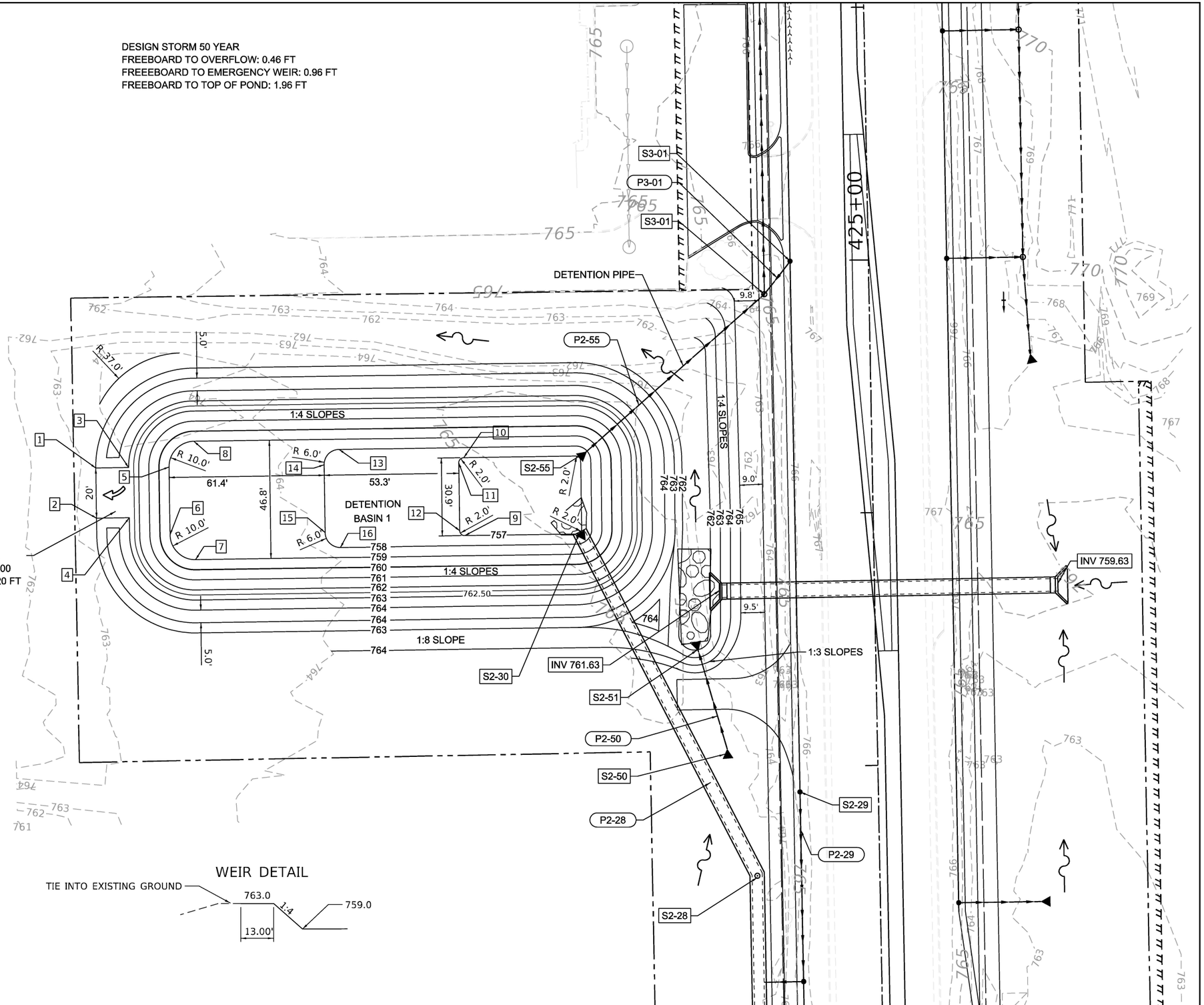
0 20 40 60
SCALE IN FEET

N

DESIGN STORM 50 YEAR
FREEBOARD TO OVERFLOW: 0.46 FT
FREEEBOARD TO EMERGENCY WEIR: 0.96 FT
FREEBOARD TO TOP OF POND: 1.96 FT

DETENSION BASIN 1

POINT	NORTHING	EASTING	ELEVATION
1	2062828.489	999882.871	763.0
2	2062808.645	999883.1553	763.0
3	2062828.676	999895.8697	763.0
4	2062808.831	999896.1539	763.0
5	2062828.905	2062828.905	759.0
6	2062802.061	999912.2525	759.0
7	2062792.205	999922.3939	759.0
8	2062839.047	999921.7238	759.0
9	2062801.724	1000028.969	757.0
10	2062832.576	1000028.527	757.0
11	2062830.548	1000026.556	757.0
12	2062803.695	1000026.941	757.0
13	2062835.87	999979.1752	758.0
14	2062829.784	999973.2617	758.0
15	2062802.936	999973.6463	758.0
16	2062797.022	999979.7311	758.0



LEGEND

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

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Illinois Professional Design Firm
184-001322

USER NAME = mzuzzio	DESIGNED - HRG	REVISED -	
	DRAWN - DMS	REVISED -	
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PLOT DATE = 12/19/2025	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATER QUALITY RETENTION BASIN 1
ILLINOIS ROUTE 31

SCALE: 1"=20' | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	255
		CONTRACT NO. 62U72		
		ILLINOIS FED. AID PROJECT		

FIELD VERIFICATION REQUIRED.
FROM SURVEY/GIS, TOP OF EXIST
12" RCP = 739.3 (INVERT = 738.1). BOTTOM OF
BOX CULVERT = 742.1 (INVERT = 743.1)

EXIST 12" RCP

SCALE IN FEET
0 20 40 60

N

N: 2068201.4734
E: 1001564.2411

N: 2068219.6814
E: 1001567.4188

N: 2068167.39
E: 1001569.46

N: 2068031.83
E: 1001591.40

N: 2068062.0602
E: 1001587.2741

R 54.0'

R 39.0'

R 45.0'

S12-08

P12-08

P10-61

N: 2067996.05
E: 1001612.74

N: 2068124.05
E: 1001591.87

N: 2068091.5588
E: 1001595.3101

INV - 742.98

742.25
741.25

R 39.0'

R 38.0'

N: 2067979.22
E: 1001633.32

10.0'

ALL SLOPES ARE 3:1

DETENTION BASIN 2
100YR HWL=748.96
STORAGE=3.26 AC-FT
WEIR ELEV=750.00
NWL=742.25
POND BOTTOM=741.25

N: 2068180.07
E: 1001666.84

N: 2068231.20
E: 1001638.29

N: 2068165.45
E: 1001677.42

R 66.0'

P12-07

N: 2067962.64
E: 1001680.58

R 39.0'

S12-07

N: 2068127.82
E: 1001714.42

R 142.0'

N: 2068116.31
E: 1001758.27

S12-06

P12-06

N: 2067977.58
E: 1001725.80

R 39.0'

N: 2068028.46
E: 1001760.21

N: 2068074.80
E: 1001758.27

S12-05

0.4' FROM TOP OF SANITARY
TO BOTTOM OF STORM SEWER

BOONE CREEK

LEGEND

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

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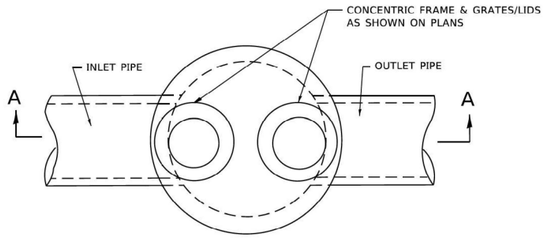
	DRAWN - DMS	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/19/2025	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

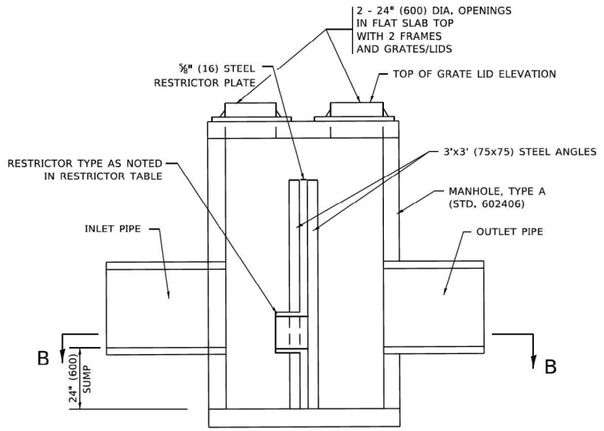
WATER QUALITY RETENTION BASIN 2
ILLINOIS ROUTE 31

SCALE: 1"=20' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	256
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	



PLAN



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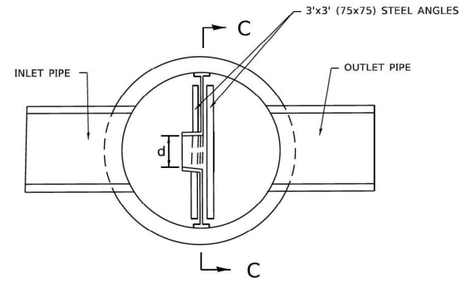

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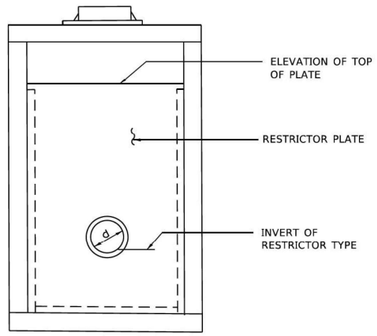

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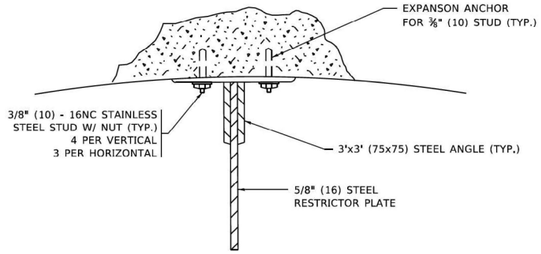


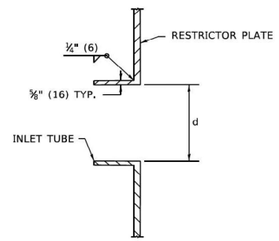
ANGLE FASTENER DETAIL

NOTES:

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

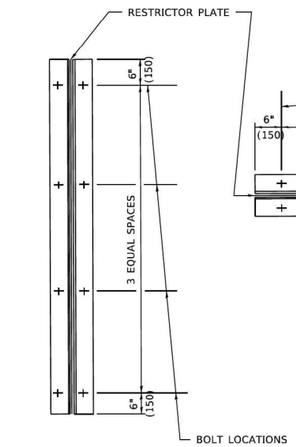
BASIS OF PAYMENT:

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.

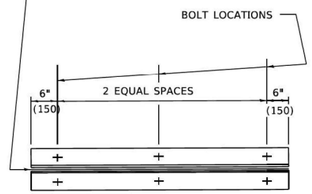


INLET TUBE DETAIL

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
S1-10	400+57.15 ; -50.1	8	2 - T1F CL	3	15.00	816.80	819.50
S3-03	432+63.69; -41.1	8	2 - T1F CL	3	9.13	755.59	762.50



TYPICAL VERTICAL ANGLES
LOOKING TOWARD MANHOLE WALL



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: ½ TO 1 DIA.		STREAM CLEARS SIDES	LENGTH: 2-½ DIA.	LENGTH: 2-½ DIA.	
C=.52	C=.61	C=.61	C=.73	C=.82	C=.98

VALUES OF "C" FOR CIRCULAR
AND SQUARE ORIFICES

STEEL ANGLE BOLTING DETAILS

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

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	DRAWN -	REVISED - E. GOMEZ 08-28-00			
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - M. GOMEZ 01-08-01			BD600–04 (BD–12) / CONTRACT NO.
PLOT DATE = 2/2/2022	DATE - 09-09-94	REVISED - K. SMITH 02-01-22		SCALE: NONE / SHEET 1 OF 1 SHEETS / STA. / TO STA.	ILLINOIS / FED. AID PROJECT

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USER NAME = mzuzzio	DESIGNED - HRG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE DETAILS ILLINOIS ROUTE 31	F.A.P RTE. / SECTION / COUNTY / TOTAL SHEETS / SHEET NO.
	DRAWN -	REVISED -			
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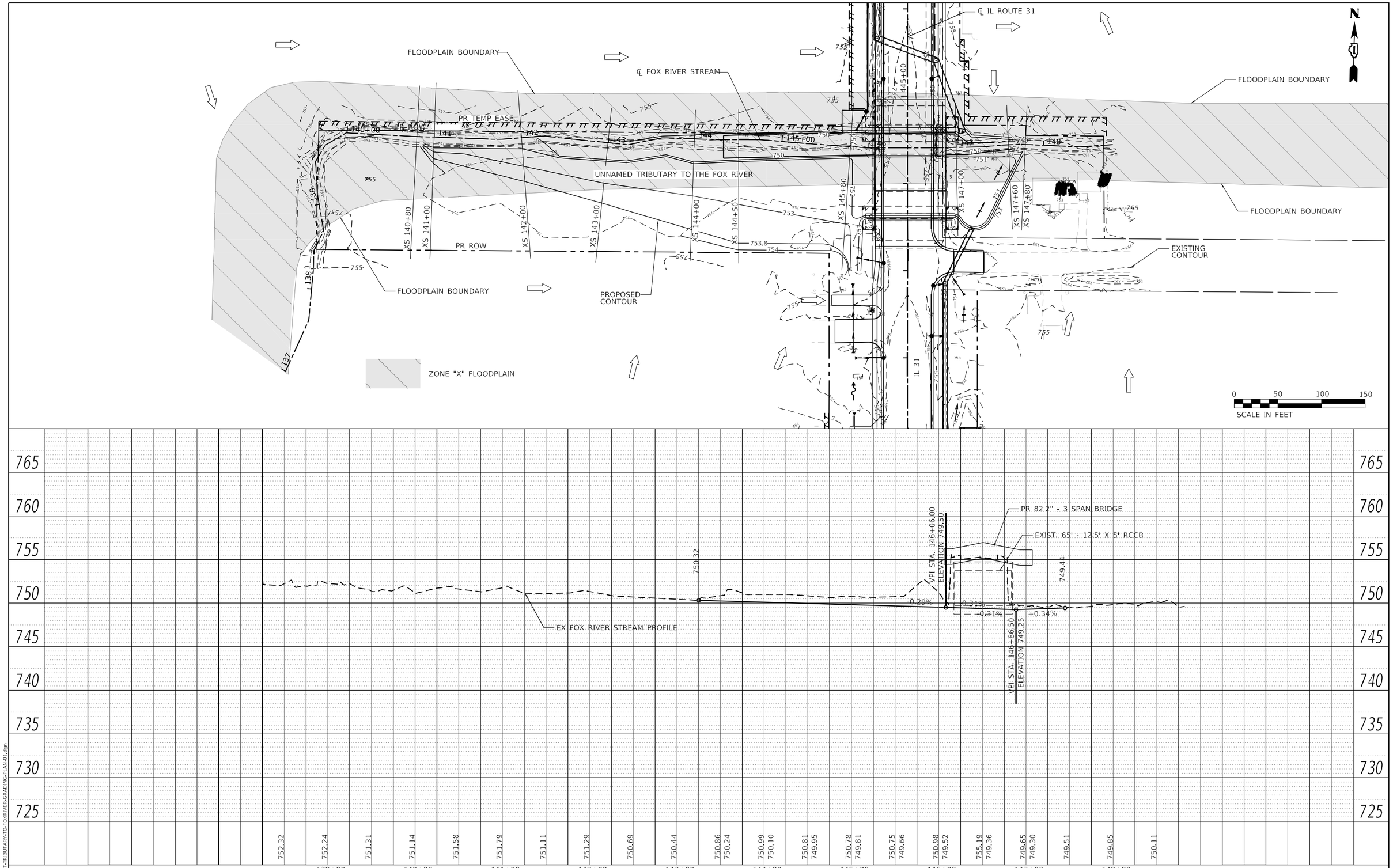
PLOT DATE = 12/19/2025	DATE - 04/30/2024	REVISED -		SCALE: NTS / SHEET 1 OF 1 SHEETS / STA. / TO STA.	CONTRACT NO. 62U72
					ILLINOIS / FED. AID PROJECT



PLAN
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SURVEYED
PLOTTED
ALIGNMENT CHECKED
R/W OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD
BY
DATE

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PLOT DATE = 3/18/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRIBUTARY TO FOX RIVER GRADING PLAN
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 1 OF 2 SHEETS | STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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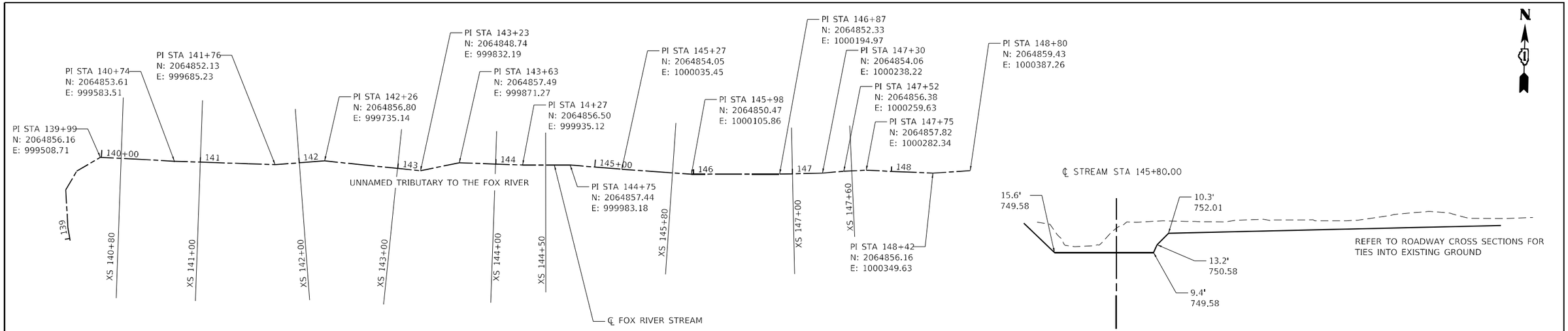
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	



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PLOT DATE = 3/18/2026	DATE - 04/30/2024	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRIBUTARY TO FOX RIVER ALIGNMENT AND CROSS SECTIONS
ILLINOIS ROUTE 31

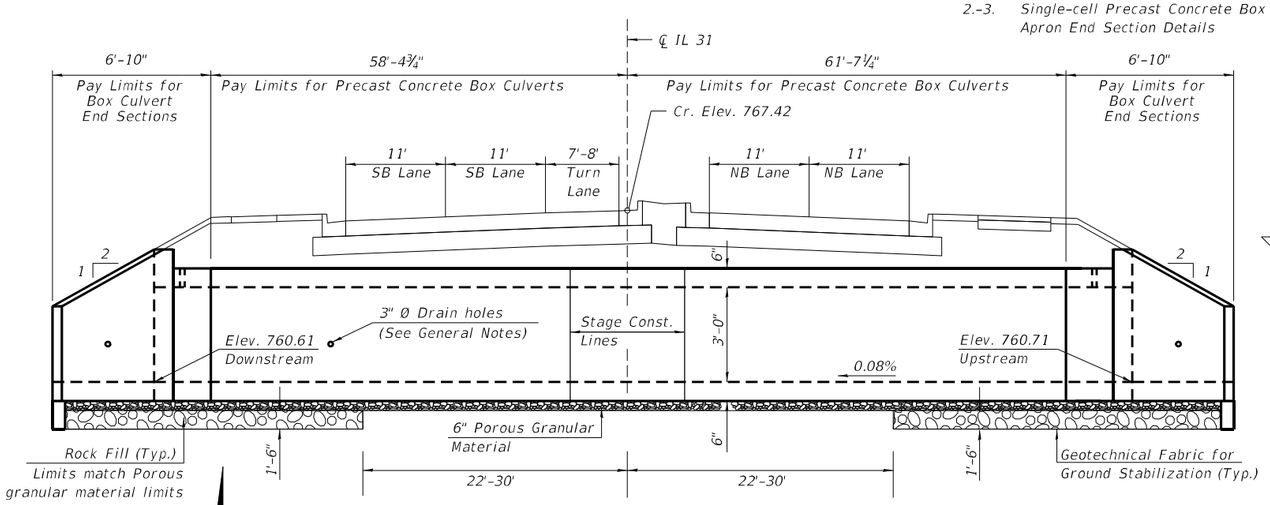
SCALE: 1"=50' | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	259
		CONTRACT NO. 62U72		
	ILLINOIS	FED. AID PROJECT		

Existing Structure: None

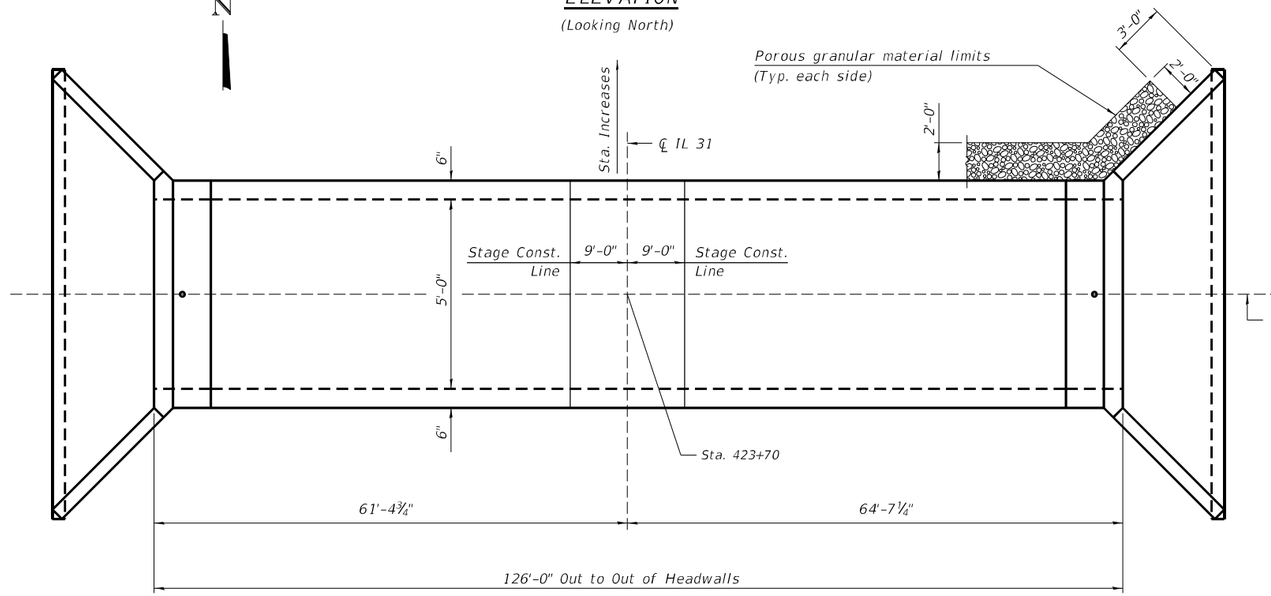
INDEX OF SHEETS

1. General Plan and Elevation
2.-3. Single-cell Precast Concrete Box Culvert Apron End Section Details



ELEVATION

(Looking North)



PLAN

WATERWAY INFORMATION

Drainage Area = 16 Acres

Existing Overtopping Elev. = 766.85 at Sta. 421+10
Proposed Overtopping Elev. = 766.58 at Sta. 420+14

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft. Exist.	Opening Sq. Ft. Prop.	Nat. H.W.E.	Head - Ft. Exist.	Head - Ft. Prop.	Headwater El. Exist.	Headwater El. Prop.
	10	7.5	2.8	5.5	762.81	0.23	0.00	763.04	762.81
Design	50	16.3	3.1	5.9	762.89	0.59	0.62	763.48	763.51
Base	100	23.8	3.1	6.1	762.92	0.84	1.16	763.76	764.08
Overtop Existing	10<	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Overtop Proposed	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Max. Calc.									

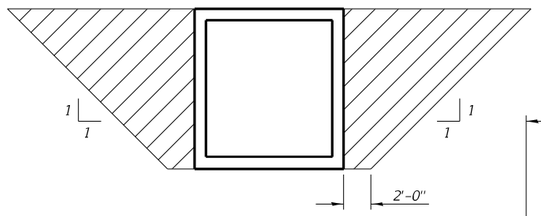
GENERAL NOTES

The design fill height for this box is 2.62 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.

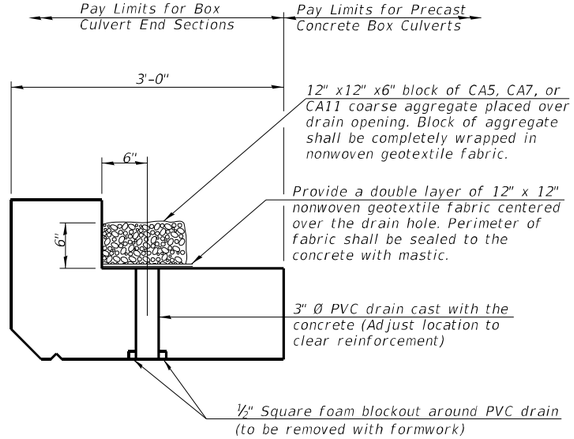
Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.

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.



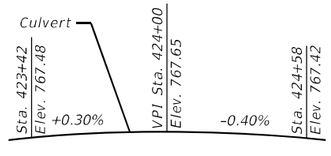
PAY LIMITS FOR POROUS GRANULAR EMBANKMENT

(Hatched area)



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.)



PROFILE GRADE

Flow

℄ Culvert

DESIGN SPECIFICATIONS

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

LOADING HL-93

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
Box Culvert End Sections, Culvert No. 1	Each	2
Precast Concrete Box Culverts, 5'x3'	Foot	128
Porous Granular Embankment	Cu. Yd.	79
Rock Fill	Cu. Yd.	60
Geotechnical Fabric for Ground Stabilization	Sq. Yd.	119

GENERAL PLAN AND ELEVATION
IL RTE. 31 OVER DRAINAGEWAY
F.A.P. RTE. 336A
McHERNY COUNTY
STATION 423+70.00

HRG PROJECT NO.: $PROJECTNO$
HRG PROJ. CONTACT: $HRGPM$
FILE NAME: C:\2-SHT-DRAW-Culvert-Det-Sta423+70.dgn
PLOT DRIVER: PLT_DRV
PEN TABLE: PEN_TABLE

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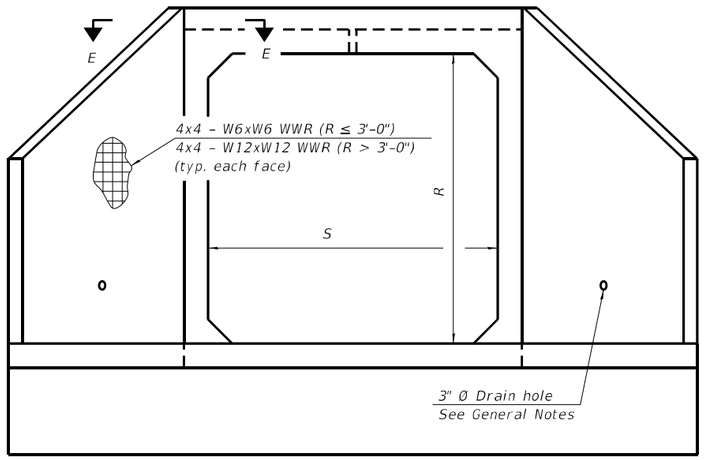
USER NAME = mzuzulo	DESIGNED -	REVISED -	
	CHECKED -	REVISED -	
PLOT SCALE =	DRAWN -	REVISED -	
PLOT DATE = 2/25/2026	CHECKED -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

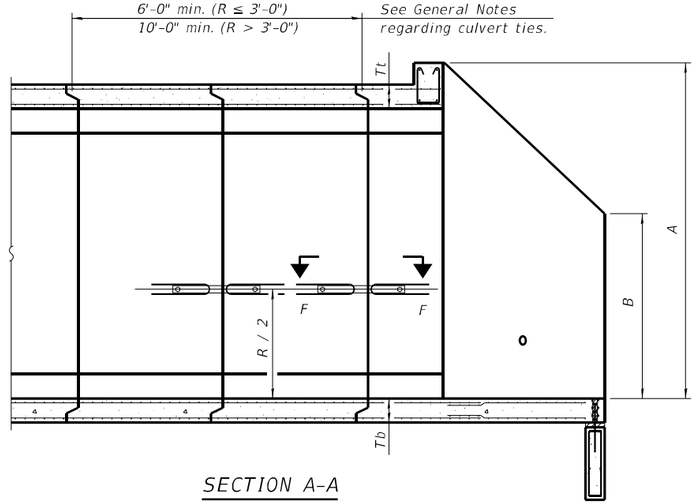
GENERAL PLAN AND ELEVATION
STATION 423+70

SHEET NO. 1 OF 1 SHEETS

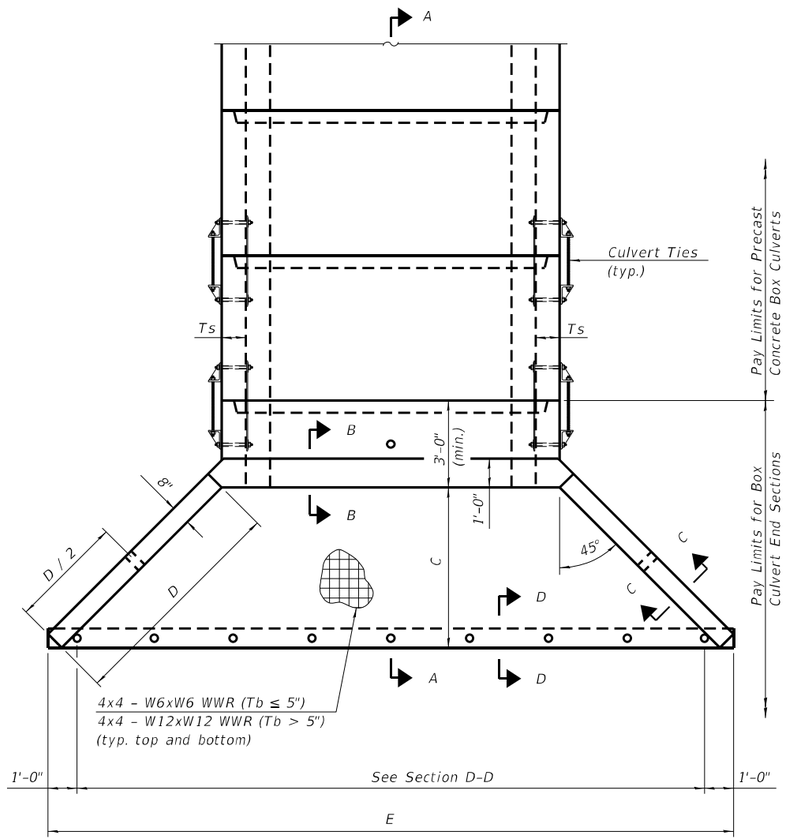
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	260
		CONTRACT NO. 62U72		
	ILLINOIS	FED. AID PROJECT		



END VIEW



SECTION A-A



PLAN

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"	3'-0"	6"	6"	6"	4'-3"	2'-8"	3'-10"	5'-5"	14'-7¼"	4.5	Yes
Culvert 2												

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 ncreased 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 ½" 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 on 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.

HRG PROJECT NO.: $PROJECTNO$
HRG PROJ. CONTACT: $HRGPM$
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PLOT DRIVER: PLT_DRV
PEN TABLE: PEN_TABLE

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		CHECKED –	REVISED -
	PLOT SCALE =	DRAWN –	REVISED -
	PLOT DATE = 12/19/2025	CHECKED –	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SINGLE CELL PRECAST CONCRETE BOX CULVERT
APRON END SECTION DETAILS
SHEET NO. OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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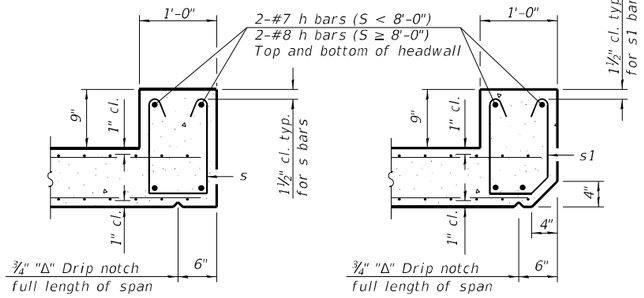
		CONTRACT NO. 62U72		
	ILLINOIS	FED. AID PROJECT		

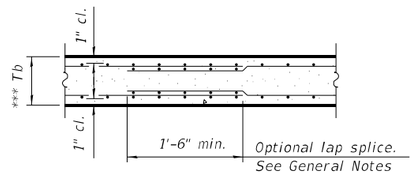


SECTION B-B

(Top slab at downstream end)

SECTION B-B

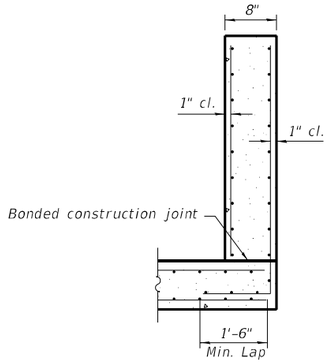
(Top slab at upstream end)



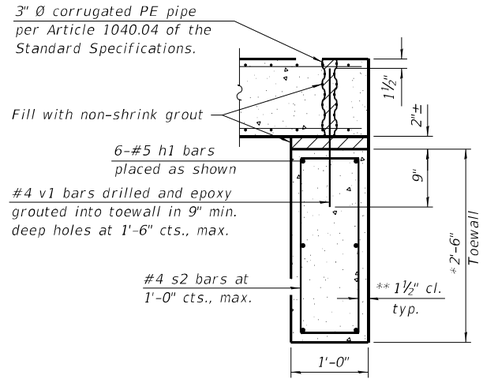
SECTION B-B

(Bottom Slab)

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



SECTION C-C



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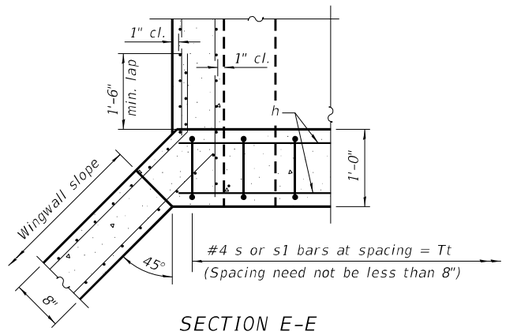

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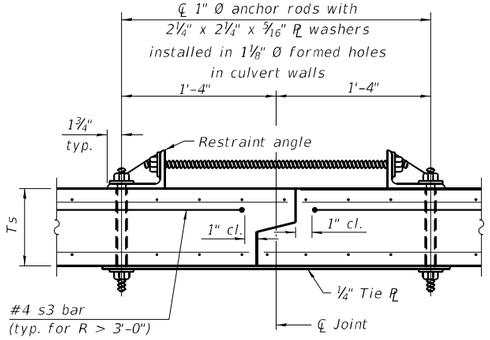

SECTION F-F

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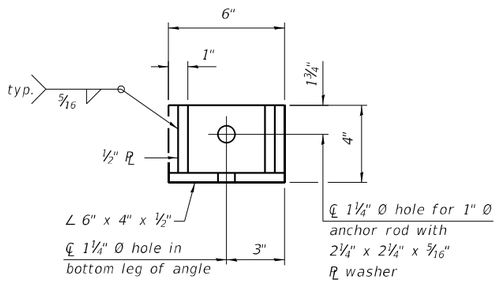
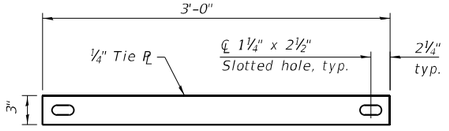
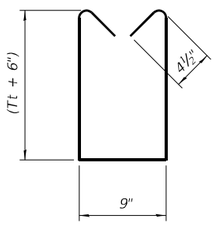


RESTRAINT ANGLE DETAIL



TIE PLATE DETAIL



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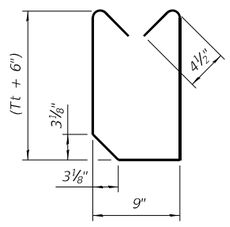

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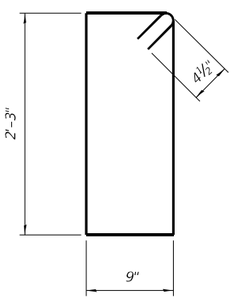

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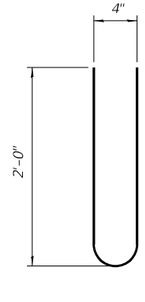

BAR s3

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" Ø 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. 2¼"x2¼"x5/16" 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 ½ 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.

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HRG PROJ CONTACT: $HRGPM$
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PEN TABLE: PEN_TABLE

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Illinois Professional Design Firm # 184-001322

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SINGLE CELL PRECAST CONCRETE BOX CULVERT
APRON END SECTION DETAILS

SHEET NO. OF SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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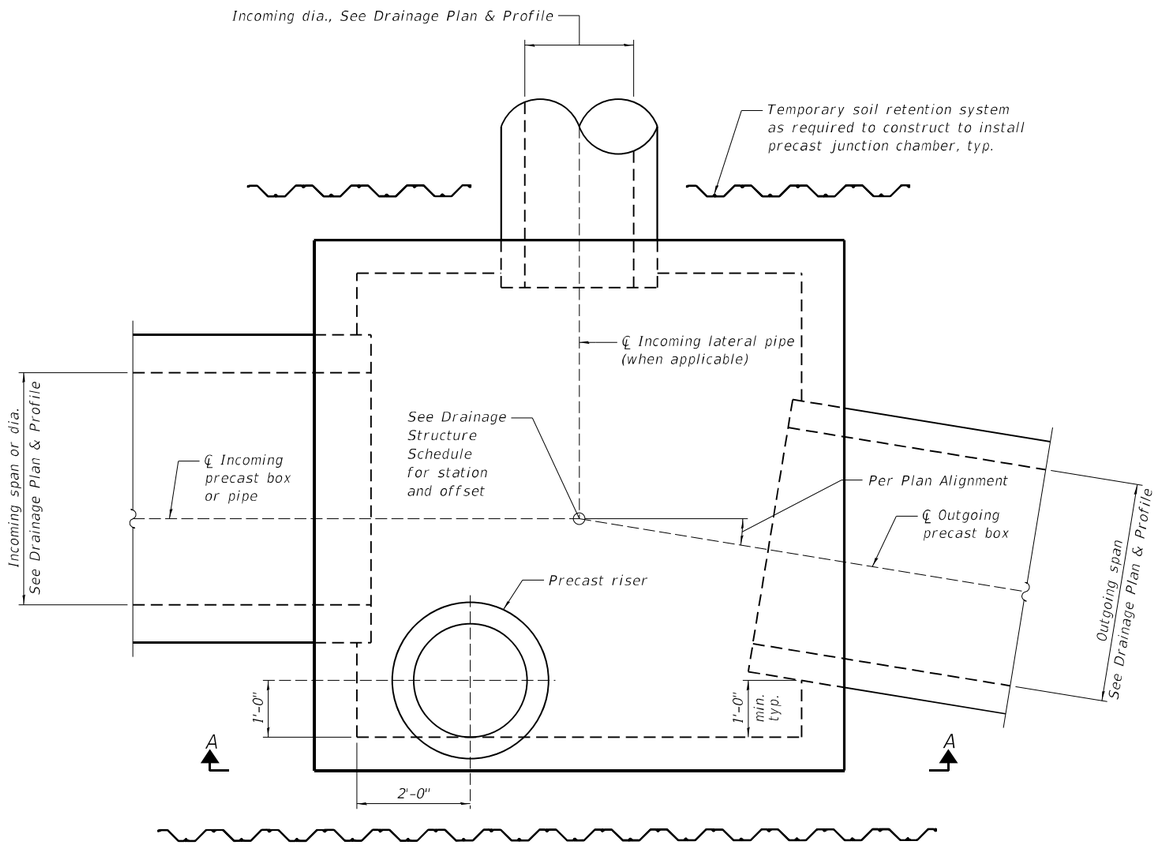
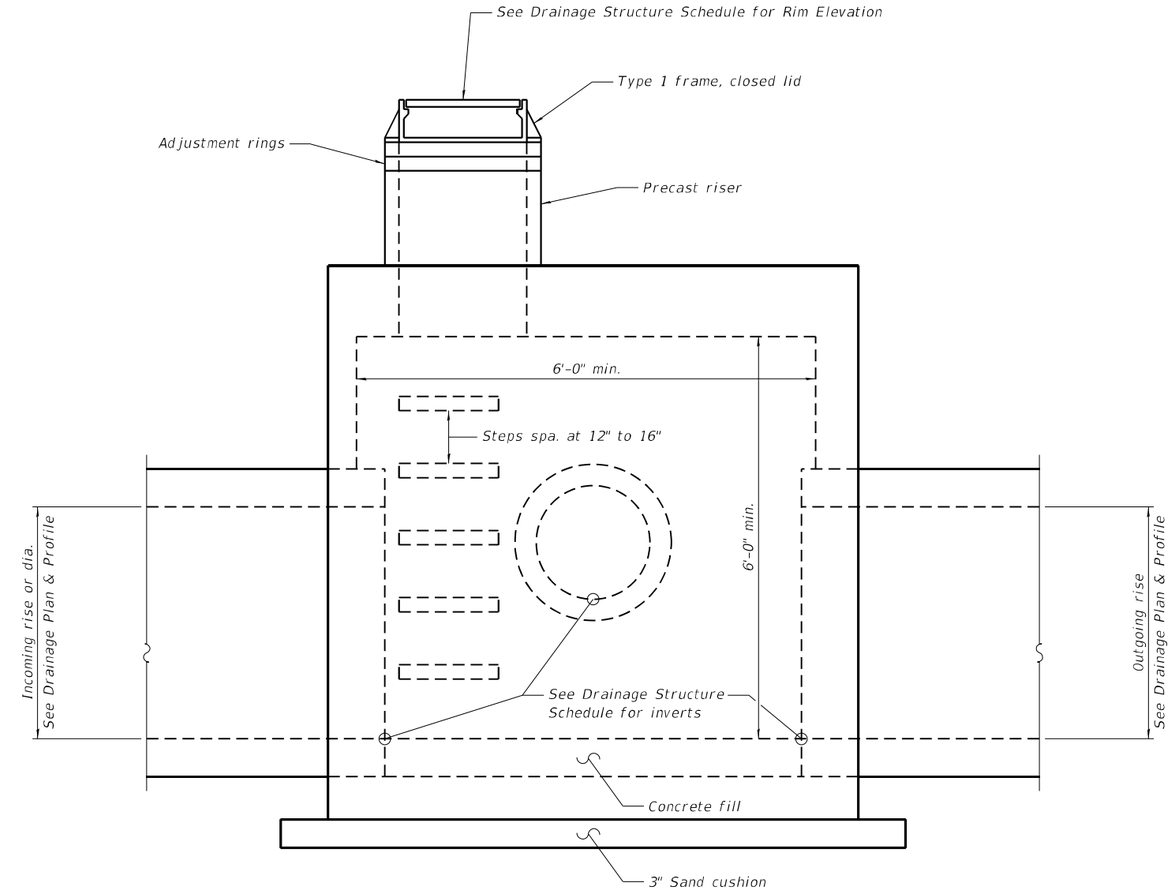
		CONTRACT NO. 62U72		
	ILLINOIS FED. AID PROJECT			



JUNCTION CHAMBER PLAN



VIEW A-A

NOTES:

Precast concrete junction chamber shall be constructed in accordance with the special provision "Precast Concrete Junction Chamber" and the standard specifications.

Appropriate sizing and location of lifting inserts shall be the responsibility of the contractor to assure balanced handling during installation.

The contractor is to patch all lifting insert holes and place a minimum of one (1) inch cover over the hardware of these devices on both top and bottom surfaces.

Temporary soil retention systems shown on the plan are conceptual. Contractor shall determine layout and prepare and submit plans to the engineer for approval. cost included in "Precast Concrete Junction Chamber."

Precast Concrete Junction Chamber shall be precast with no joints. See highway standards 602701-02 and 604001-05 for additional information and requirements.

All inverts and elevations shall be field verified by the contractor prior to ordering materials and construction. this work will not be paid for separately, but shall be included within the contract unit price for Precast Concrete Junction Chamber.

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MODEL: Default
FILE NAME: C2-SHT-0560105-62U72-details-JC01.dgn

USER NAME = BW001	DESIGNED - EMA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	CHECKED -	REVISED -	
PLOT SCALE = 2:8 ':" / in.	DRAWN - BMP	REVISED -	
PLOT DATE = 1/16/2026	CHECKED -	REVISED -	

JUNCTION CHAMBER DETAILS
ILLINOIS ROUTE 31
SHEET JC-01 OF JC-01 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	263
		CONTRACT NO. 62U72		
		ILLINOIS FED. AID PROJECT		

1/16/2026 11:27:48 AM

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PROPOSED SANITARY MANHOLES (60221100)

ALIGN	STR ID	STA.	OFFSET (FT)	SIDE	RIM EL	INV EL			
						N	E	S	W
IL 30	SAN-2A	439+93.34	33.64	RT	758.66	752.66	752.66		
IL 31	SAN-1	443+20.26	24.25	LT	756.52		748.55	750.77	
IL 31	SAN-2	443+19.00	49.50	RT	756.45		749.19	749.19	749.19
IL 31	SAN-3	443+17.30	196.50	RT	753.23			748.55	748.55
IL 31	SAN-5	446+75.76	49.83	LT	755.13		746.03		749.90
IL 31	SAN-6	446+74.77	44.00	RT	755.18	745.75	745.75		745.75
IL 31	SAN-7	449+96.41	44.00	RT	755.18	744.82	744.82	744.82	
IL 31	SAN-16	453+23.00	45.59	LT	755.58		744.77		748.55
IL 31	SAN-8	453+22.10	44.00	RT	755.66	743.87	748.23	743.87	743.87
IL 31	SAN-8A	455+01.00	36.00	RT	755.85	743.36		743.36	743.36
IL 31	SAN-9	456+87.05	35.45	RT	756.34	742.82		742.82	751.71
IL 31	SAN-10	460+51.99	33.31	RT	755.49	741.77		741.77	750.40
IL 31	SAN-10A	462+20.00	33.15	RT	754.53	741.29		741.29	
IL 31	SAN-11	463+33.90	33.94	RT	754.14	740.97	749.50	740.97	
IL 31	SAN-12	464+31.35	33.75	RT	754.91	740.68		740.68	741.68
IL 31	SAN-13	466+51.70	29.49	RT	754.58	740.00		740.00	
IL 31	SAN-15	449+96.36	43.31	LT	756.06		745.69		749.97
IL 31	SAN-17	464+33.21	49.06	LT	755.10		742.51	750.05 (SW)	
IL 31	SAN-18	468+62.99	30.00	RT	755.29	747.84			
IL 31	SAN-18A	468+03.64	40.78	RT	755.17		740.88		
IL 31	SAN-19	470+36.44	28.94	RT	755.58		746.12	746.12	
IL 31	SAN-20	470+44.17	2.41	RT	756.91	74.45			740.45
IL 31	SAN-22	473+66.40	33.99	RT	762.12		750.77		742.6
IL 31	SAN-23	473+66.27	0.82	LT	762.64	749.41	742.25	742.25	749.41
IL 31	SAN-26	474+39.89	29.88	RT	762.72			754.73	
IL 120	SAN-24	302+45.10	40.88	RT	755.31		747.7	747.7	
IL 120	SAN-25	304+38.59	40.68	RT	755.88		747.3		747.4
								TOTAL	27

PROPOSED SANITARY SEWERS

PROPOSED SANITARY SEWERS										SANITARY SEWER SERVICE	
ALIGN	PIPE ID	FROM	TO	LENGTH (FT)	DIA. (IN)	TYPE	SLOPE	BEDDING MATERIAL (CU YD)	TRENCH BACKFILL (CU YD)	EX STA	SERVICE TO REINSTATED 6"PVC,(TYP) (SDR 26)
											PR STA
IL 31	SS-1A	437+21.45	437+21.46	44	8	PVC	1.00%	6.5	18.2		
IL 31	SS-3	SAN-3	SAN-4	29	8	PVC	0.40%	4.2	5.2		
IL 31	SS-2	443+18.81	SAN-3	125	8	PVC	0.40%	18.4	39.5		
		SAN-2	443+18.81	34		DIP		5.0	14.2		
IL 31	SS-2A	SAN-2A	SAN-2	326	8	PVC	1.06%	48.1	120.1		
IL 31	SS-1	SAN-1	SAN-2	62	8	PVC	0.40%	9.1	27.8		
IL 31	SS-5	SAN-6	446+75.46	66	8	PVC	0.30%	9.7	37.5		
		446+75.46	SAN-5	28		DIP		4.1	11.6		
IL 31	SS-6	SAN-6	SAN-7	322	12	PVC	0.29%	60.1	284.8		
IL 31	SS-15	449+96.37	SAN-7	66	8	PVC	1.00%	9.7	43.3		
		SAN-15	449+96.37	22		DIP	1.00%	3.2	8.9		
IL 31	SS-15A	SAN-15A	SAN-15	23	8	PVC	1.00%	3.4	5.1		
IL 31	SS-7	SAN-7	SAN-8	326	12	PVC	0.29%	60.9	323.9		
IL 31	SS-16	453+22.76	SAN-8	66	12	PVC	1.00%	12.4	47.3		
		SAN-16	453+22.76	23		DIP	1.00%	4.4	11.2		
IL 31	SS-8	SAN-8	SAN-8A	178	12	PVC	0.29%	33.3	202.6		
IL 31	SS-8A	SAN-8A	SAN-9	187	12	PVC	0.29%	24.0	24.7		
IL 31	SS-9	SAN-9	SAN-10	365	12	PVC	0.29%	68.2	448.4		456+88(RT)
IL 31	SS-9A	461+03.48	461+03.60	6	6	PVC	1.00%	0.9	2.5		
IL 31	SS-10	SAN-10	SAN-10A	166	12	PVC	0.29%	31.0	203.4	460+52(RT), 461+03(RT)	461+03 (RT)
IL 31	SS-10A	SAN-10A	SAN-11	112	12	PVC	0.29%	16.5	46.4		
IL 31	SS-10B	SAN-11	463+33.26	6	6	PVC	1.00%	0.8	2.3		
IL 31	SS-11	SAN-11	SAN-12	98	12	PVC	0.30%	18.3	115.1	463+33(RT)	463+32 (RT)
IL 31	SS-11A	SAN-12A	SAN-13	34	6	DIP	1.00%	4.4	13.0		
IL 31	SS-17	SAN-17	SAN-12	49	10	PVC	1.00%	8.2	31.1		
			SAN-12	34		DIP		5.7	21.6		
IL 31	SS-12	SAN-12	SAN-13	218	12	PVC	0.31%	40.8	268.4		466+36 (RT),464+52(RT)
IL 31	SS-12A	466+34.88	466+35.95	30	6	DIP	1.00%	3.9	11.5		
IL 31	SS-13	SAN-13	SAN-14	49	12	PVC	0.31%	9.2	64.7		466+69(RT)
IL 31	SS-13A	SAN-14	SAN-18A	111	6	PVC	1.00%	3.7	11.1		
IL 31	SS-13B	466+65.29	466+69.04	30	6	DIP	1.00%	3.9	11.5		
IL 31	SS-18	SAN-18	SAN-19	85	6	PVC	1.00%	25.4	107.6	469+50(RT)	
IL 31	SS-18A	470+39.34	SAN-20	15	6	PVC	1.00%	1.9	5.7		
IL 31	SS-20	SAN-20	SAN-21	24	8	PVC	0.55%	3.6	27.4		
IL 31	SS-23	SAN-23	SAN-20	328	8	PVC	0.55%	48.4	427.8		470+44(RT), 472+36(RT), 472+85(LT)
IL 31	SS-23A	472+35.93	472+36.34	41	6	DIP	1.00%	5.3	15.8		
IL 31	SS-22	SAN-22	SAN-23	35	8	DIP	1.00%	5.1	49.7		473+66(RT)
IL 31	SS-22A	472+85.23	472+85.23	35	6	PVC	1.00%	4.5	13.5		
IL 120	SS-24	SAN-24	SAN-25	194	8	PVC	0.25%	28.6	115.4		
IL 31	SS-25	SAN -22	SAN-26	74	4	PVC	1.00%	9.5	28.3		
IL 31	SS-26	476+37.06	476+37.06	33	6	PVC	1.00%	4.2	12.6	474+39 (RT)	
IL 120	SS-27	311+29.26	311+60.11	32	8	DIP	1.00%	4.7	17.1		
IL 120	SS-27A	312+26.04	312+31.68	24	10	DIP	0.03%	4.0	13.8		
IL 120	SS-28	SAN-25	304+47.04	10	12	PVC	1.00%	1.9	4.8		
								TOTAL	3316		

Z0057100, TOTAL 12" DIA PVC SANITARY SEWER, FT= 2096
Z0057000, TOTAL 10" DIA PVC SANITARY SEWER, FT= 49
Z0056900, TOTAL 8" DIA PVC SANITARY SEWER, FT= 1285
Z0056800, TOTAL 6" DIA PVC SANITARY SEWER, FT= 291

X0327369, TOTAL 10" DIA DIP SANITARY SEWER, FT= 58
X0327420, TOTAL 8" DIA DIP SANITARY SEWER, FT= 151
TOTAL 6" DIA DIP SANITARY SEWER, FT= 135

SANITARY SEWER & WATER MAIN CROSSINGS

Crossing ID	Alignment	Station	Offset	LT/RT	Surface Elevation	TOP PIPE							BOTTOM PIPE					Vertical Clearance (ft)
						Pipe Type	EX/PR	DIA (inches)	Material	Invert	Pipe Thickness (inches)	Bottom of Pipe Elevation	Pipe Type	EX/PR	DIA (inches)	Material	Top of pipe	
C52	IL 31	415+46.01	38	RT	768.79	**WATER**	PR	4	PVC	762.23	0.16	762.22	SANITARY	EX	8	PVC	760.42	1.79
C54	IL 31	417+93.37	40	LT	767.28	**WATER**	PR	12	PVC	758.17	0.5	758.13	SANITARY	EX	30	PCCP	757.15	0.98
C66A	IL 31	429+58.08	29	LT	765.44	SANITARY	PR	8	CLAY	759.18	1.7	759.04	**WATER**	PR	12	PVC	756.56	2.48
C76B	IL 31	436+87.51	20	LT	762.91	SANITARY	PR	8	CLAY	753.53	1.7	753.39	**WATER**	PR	6	DIP	751.89	1.50
C80B	IL 31	439+68.54	20	LT	759.01	SANITARY	PR	8	CLAY	752.49	1.7	752.35	**WATER**	PR	6	DIP	750.85	1.50
C85	IL 31	442+76.38	37	RT	757.50	**WATER**	EX	6	DIP	752.00	0.3	751.98	SANITARY	PR	8	PVC	750.31	1.66
C93	IL 31	446+94.70	44	RT	755.09	**WATER**	PR	8	PVC	751.95	1.7	751.81	SANITARY	PR	12	PVC	746.86	4.95
C96	IL 31	449+84.29	51	LT	755.56	SANITARY	PR	8	PVC	750.06	0.2	750.04	**WATER**	PR	10	PVC	747.52	2.52
C99	IL 31	450+12.51	44	RT	756.05	**WATER**	PR	8	PVC	752.47	0.3	752.44	SANITARY	PR	12	PVC	745.81	6.63
C106A	IL 31	453+21.61	54	LT	755.30	SANITARY	EX	12	CLAY	748.70	0.5	748.66	**WATER**	PR	10	PVC	746.45	2.21
C110	IL 31	456+51.72	46	LT	755.43	SANITARY	EX	6	CIPP	751.86	1.5	751.73	**WATER**	PR	10	PVC	748.70	3.03
C113A	IL 31	456+86.30	40	LT	756.05	SANITARY	PR	6	PVC	752.17	0.2	752.15	**WATER**	PR	10	PVC	745.14	7.01
C122A	IL 31	460+37.72	34	RT	755.72	**WATER**	EX	4	DIP	750.71	0.3	750.69	SANITARY	PR	12	PVC	742.83	7.86
C122C	IL 31	461+73.99	37	RT	755.25	**WATER**	EX	4	DIP	750.78	0.3	750.76	SANITARY	PR	12	PVC	742.43	8.33
C126B	IL 31	462+34.48	37	RT	754.85	**WATER**	PR	4	DIP	743.78	0.3	743.76	SANITARY	PR	12	PVC	742.25	1.50
C130A	IL 31	464+31.69	45	LT	754.98	**WATER**	PR	10	PVC	747.64	0.4	747.61	SANITARY	PR	10	PVC	741.50	6.11
C132A	IL 31	466+72.11	29	RT	755.73	**WATER**	PR	4	DIP	750.96	0.3	750.94	SANITARY	PR	12	PVC	740.93	10.01
C133A	IL 31	466+77.64	28	RT	755.75	**WATER**	PR	4	DIP	750.11	0.3	750.09	SANITARY	PR	12	PVC	740.89	9.20
C144	IL 31	470+49.71	2	RT	756.93	**WATER**	PR	6	PVC	750.60	0.2	750.58	SANITARY	PR	8	PVC	741.21	9.37
C147A	IL 31	471+26.65	2	RT	757.37	**WATER**	PR	1	PVC	744.62	0.1	744.61	SANITARY	PR	8	PVC	741.63	2.97
C148A	IL 31	471+44.46	1	RT	757.57	**WATER**	PR	1	PVC	744.62	0.1	744.61	SANITARY	PR	8	PVC	741.73	2.88
C151	IL 31	472+64.05	0	RT	760.00	**WATER**	PR	1	PVC	744.62	0.1	744.61	SANITARY	PR	8	PVC	742.39	2.22
C152	IL 31	472+96.17	0	LT	760.96	**WATER**	PR	1	PVC	753.32	0.1	753.31	SANITARY	PR	8	PVC	742.57	10.74
C152A	IL 31	472+83.86	12	LT	760.39	**WATER**	PR	10	PVC	749.88	0.4	749.84	SANITARY	PR	6	PVC	742.33	7.51
C154A	IL 31	473+64.85	12	LT	762.41	**WATER**	PR	10	PVC	754.87	0.4	754.84	SANITARY	EX	8	PCCP	742.94	11.89
C154B	IL 31	473+78.78	33	RT	762.03	**WATER**	EX	8	CIP	755.70	0.3	755.67	SANITARY	PR	6	PVC	742.77	12.89
C175B	IL 31	476+96.01	13	LT	758.38	SANITARY	EX	8	CLAY	753.06	1.7	752.92	**WATER**	PR	10	PVC	751.08	1.84

WMQ - WATER MAIN QUALITY
CIPP - CURED IN PLACE PIPE (LINING)
DIP - DUCTILE IRON PIPE
PVC - POLYVINYL CHLORIDE
RCP - REINFORCED CONCRETE PIPE
PCCP - PRESTRESSED CONCRETE CYLINDER PIPE

SANITARY MANHOLES TO BE REMOVED (X6026054)

SANITARY MANHOLES TO BE REMOVED		
ALIGNMENT	STATION OFFSET	EACH
IL 31	439+94.13, 25.69' RT	1
IL 31	443+20.27, 24.25' LT	1
IL 31	445+34.24, 24.64' LT	1
IL 31	446+74.73, 25.11' LT	1
IL 31	449+00.06, 35.24' LT	1
IL 31	449+96.40, 34.83' LT	1
KANE AVE	11+50.04, 1.59' RT	1
KANE AVE	11+57.29, 2.06' RT	1
IL 31	460+52.24, 17.18' RT	1
IL 31	463+31.83, 14.86' RT	1
IL 31	464+33.21, 49.06' LT	1
IL 31	466+68.51, 15.36' RT	1
IL 31	470+36.31, 17.67' RT	1
IL 31	470+38.80, 2.47' RT	1
IL 31	473+66.29, 0.08' LT	1
IL 120	302+60.10, 21.56' RT	1
IL 120	304+09.61, 22.22' RT	1
	TOTAL	17

ABANDON AND FILL EXISTING SANITARY SEWER

SANITARY SEWER TO BE ABANDONED					
ALIGN	FROM STA.	TO STA.	LENGTH (FT)	PIPE SIZE (IN)	MATERIAL
IL 31	437+19.86	439+92.55	273	8	CLAY
IL 31	439+93.34	440+01.32	54	8	CLAY
IL 31	443+20.26	448+16.63	497	8	CLAY
Il 31	453+22.16	456+87.95	377	6	CIPP
IL 31	460+52.24	460+51.99	16	6	PVC
IL 31	461+03.48	461+03.64	17	6	PVC
IL 31	463+31.70	463+32.89	19	6	PVC
IL 31	464+33.65	464+36.67	26	10	PVC
IL 31	466+65.80	466+68.23	16	6	PVC
IL 31	468+04.05	468+03.64	19	6	PVC
IL 31	469+50.75	469+50.41	10	6	PVC
IL 31	470+38.78	470+39.34	14	8	CLAY
IL 31	476+97.23	476+97.16	29	8	CLAY
		TOTAL	1367		

SANITARY SEWER REMOVAL (X1200317)

SANITARY SEWER TO BE REMOVED					
ALIGN	FROM STA.	TO STA.	LENGTH (FT)	PIPE SIZE (IN)	MATERIAL
IL 31	448+16.63	453+20.86	506	8	CLAY
IL 31	460+24.05	470+34.94	1006	8	CLAY
IL 31	470+36.44	470+44.17	32	8	CLAY
IL 120	302+45.10	304+38.71	208	8	CLAY
IL 31	474+39.89	474+41.68	31	4	PVC
		TOTAL	1783		

MODEL: Default
FILE NAME: pw:\\patrickco-pw.bentley.com:patrickco-pw-07\Documents\DOT\22177.01912 Design\12.3 CADDSHEETS\MUNICIPAL\C2-SHT-SANITARY-MCHENRY-SCHEDULE-01.dgn

USER NAME = SA010	DESIGNED - EK	REVISED -
	DRAWN - LG	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - SA	REVISED -
PLOT DATE = 4/29/2026	DATE - 04/23/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
SANITARY SEWERS – CITY OF MCHENRY

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	264
		CONTRACT NO.	62U72	
		ILLINOIS	FED. AID PROJECT	

SANITARY SEWER & STORM SEWER CROSSINGS

Crossing ID	Alignment	Station	Offset	LT/RT	Surface Elevation	TOP PIPE							BOTTOM PIPE					Vertical Clearance (ft)
						Pipe Type	EX/PR	DIA (inches)	Material	Invert	Pipe Thickness (inches)	Bottom of Pipe Elevation	Pipe Type	EX/PR	DIA (inches)	Material	Top of pipe	
C41	IL 31	401+71.90	45	RT	819.86	STORM	PR	12	RCP	816.33	2.0	816.16	SANITARY	EX	8	PVC	813.08	3.09
C48	IL 31	412+10.04	49	RT	776.62	STORM	PR	15	RCP	774.60	2.3	774.41	SANITARY	EX	8	PVC	770.75	3.67
C49	IL 31	413+32.27	47	RT	773.05	STORM	PR	4'MH	RCP	769.66	6.0	769.16	SANITARY	EX	8	PVC	766.54	2.62
C52	IL 31	417+93.79	19	LT	767.23	STORM	PR	4'X3'BOX	RCP	762.45	6.0	761.95	SANITARY	EX	30	PCCP	757.12	4.83
C53	IL 31	417+96.92	64	RT	765.20	STORM	PR	15	RCP	762.58	2.3	762.39	SANITARY	EX	30	PCCP	756.87	5.52
C60	IL 31	425+77.76	41	LT	766.77	SANITARY	EX	8	CLAY	760.96	1.7	760.82	STORM	PR	48	RCP	760.68	0.14
C61	IL 31	426+34.80	30	LT	766.29	STORM	PR	INLET	RCP	762.14	6.0	761.64	SANITARY	EX	8	CLAY	761.44	0.20
C62	IL 31	427+95.00	29	LT	765.68	STORM	PR	12	RCP	761.61	2.0	761.44	SANITARY	EX	8	CLAY	760.65	0.79
C63	IL 31	428+60.06	38	LT	765.09	SANITARY	EX	8	CLAY	759.66	1.7	759.52	STORM	PR	48	RCP	755.68	3.84
C64	IL 31	428+70.00	29	LT	765.40	STORM	PR	12	RCP	761.84	2.0	761.67	SANITARY	EX	8	CLAY	760.28	1.39
C65	IL 31	429+08.29	29	LT	765.36	STORM	PR	CATCH BASIN	RCP	761.81	6.0	761.31	SANITARY	EX	8	CLAY	760.09	1.22
C69	IL 31	430+07.00	29	LT	764.98	STORM	PR	12	RCP	761.39	2.0	761.22	SANITARY	EX	8	CLAY	759.60	1.62
C70	IL 31	430+79.77	28	LT	765.80	STORM	PR	12	RCP	761.35	2.0	761.18	SANITARY	EX	8	CLAY	759.25	1.94
C71	IL 31	431+55.00	28	LT	766.03	STORM	PR	12	RCP	761.91	2.0	761.74	SANITARY	EX	8	CLAY	758.87	2.87
C72	IL 31	432+29.95	28	LT	766.26	STORM	PR	12	RCP	762.13	2.0	761.96	SANITARY	EX	8	CLAY	758.51	3.46
C73	IL 31	432+81.70	27	LT	766.43	SANITARY	EX	8	CLAY	757.43	1.7	757.29	STORM	PR	24	RCP	756.66	0.63
C75	IL 31	435+00.00	23	LT	765.76	STORM	PR	12	RCP	761.50	2.0	761.33	SANITARY	EX	8	CLAY	755.89	5.45
C76	IL 31	437+00.00	20	LT	762.74	STORM	PR	12	RCP	758.45	2.0	758.28	SANITARY	EX	8	CLAY	754.15	4.13
C77	IL 31	439+00.00	19	LT	759.68	STORM	PR	12	RCP	755.46	2.0	755.29	SANITARY	EX	8	CLAY	753.41	1.88
C79	IL 31	440+50.07	34	RT	758.73	STORM	PR	12	RCP	754.00	2.0	753.83	SANITARY	EX	8	PVC	752.75	1.09
C82	IL 31	442+24.84	36	RT	757.80	STORM	PR	12	RCP	751.97	2.0	751.80	SANITARY	PR	8	PVC	750.84	0.96
C83	IL 31	442+84.03	37	RT	757.45	STORM	PR	12	RCP	753.08	2.0	752.91	SANITARY	PR	8	PVC	750.21	2.71
C84	ANNE ST	443+18.94	59	RT	755.85	STORM	PR	3'X3'BOX	RCP	751.15	6.0	750.65	SANITARY	PR	8	PVC	749.78	0.87
C86	LILLIAN AVE	198+10.01	0	LT	755.42	STORM	PR	12	RCP	751.85	2.0	751.68	SANITARY	EX	8	CIPP	751.32	0.36
C87	LILLIAN AVE	198+83.49	0	LT	754.69	STORM	PR	15	RCP	751.20	2.3	751.01	SANITARY	EX	8	CIPP	750.98	0.03
C88	IL 31	446+75.60	35	LT	755.39	STORM	PR	5'X3'BOX	RCP	750.64	6.0	750.14	SANITARY	PR	8	DIP	746.67	3.47
C89	IL 31	446+75.06	17	RT	755.72	STORM	PR	42	RCP	747.80	6.0	747.30	SANITARY	PR	8	DIP	746.42	0.88
C90	GROVE AVE	446+73.03	106	RT	754.34	SANITARY	EX	8	CLAY	750.39	1.7	750.25	STORM	PR	15	RCP	749.42	0.83
C91	GROVE AVE	446+72.34	128	RT	754.28	SANITARY	EX	8	CLAY	750.40	1.7	750.26	STORM	PR	15	RCP	749.58	0.68
C92	GROVE AVE	446+70.68	216	RT	754.71	SANITARY	EX	8	CLAY	750.81	1.7	750.67	STORM	PR	15	RCP	749.59	1.09
C95	IL 31	448+22.82	44	RT	754.94	STORM	PR	15	RCP	751.72	2.3	751.53	SANITARY	PR	12	PVC	746.36	5.17
C97	IL 31	449+96.37	35	LT	755.81	STORM	PR	5'X3'BOX	RCP	751.28	6.0	750.78	SANITARY	PR	8	PVC	746.38	4.40
C98	IL 31	449+96.40	17	RT	756.67	STORM	PR	42	RCP	747.55	4.5	747.18	SANITARY	PR	8	PVC	745.59	1.58
C101	IL 31	452+05.00	44	RT	755.50	STORM	PR	15	RCP	751.37	2.3	751.18	SANITARY	PR	12	PVC	745.25	5.93
C102	IL 31	453+22.37	17	RT	756.26	STORM	PR	48	RCP	747.21	5.0	746.79	SANITARY	PR	12	PVC	745.19	1.60
C103	IL 31	453+89.00	41	RT	755.05	STORM	PR	15	RCP	751.73	2.3	751.54	SANITARY	PR	12	PVC	744.71	6.83
C104	IL 31	454+48.11	38	RT	755.08	STORM	PR	15	RCP	750.77	2.3	750.58	SANITARY	PR	12	PVC	744.52	6.06
C105	IL 31	455+50.98	36	RT	755.55	STORM	PR	12	RCP	750.19	2.0	750.02	SANITARY	PR	12	PVC	744.24	5.78
C107	IL 31	453+22.89	35	LT	755.83	STORM	PR	4'X2'BOX	RCP	751.93	6.0	751.43	SANITARY	PR	12	DIP	745.62	5.81
C108	KANE	10+79.65	2	RT	753.78	STORM	PR	12	RCP	750.54	2.0	750.37	SANITARY	EX	12	CLAY	749.62	0.76
C111	IL 31	456+70.72	46	LT	755.81	SANITARY	EX	6	CIPP	752.04	1.5	751.91	STORM	PR	12	RCP	749.40	2.52
C114	IL 31	457+11.23	35	RT	756.30	STORM	PR	12	RCP	748.34	2.0	748.17	SANITARY	PR	12	PVC	743.78	4.40
C115	IL 31	457+67.05	35	RT	756.51	STORM	PR	12	RCP	748.36	2.0	748.19	SANITARY	PR	12	PVC	743.61	4.58
C116	IL 31	458+51.08	35	RT	756.41	STORM	PR	15	RCP	747.37	2.3	747.18	SANITARY	PR	12	PVC	743.37	3.81
C119	IL 31	459+47.91	35	RT	755.66	STORM	PR	15	RCP	751.88	2.3	751.69	SANITARY	PR	12	PVC	743.10	8.60
C120	IL 31	459+83.21	35	RT	755.67	STORM	PR	15	RCP	751.89	2.3	751.70	SANITARY	PR	12	PVC	742.98	8.72
C123	IL 31	461+54.55	34	RT	755.28	STORM	PR	12	RCP	750.28	2.0	750.11	SANITARY	PR	12	PVC	742.49	7.63
C124	IL 31	461+84.00	34	RT	755.17	SANITARY	PR	12	PVC	753.58	2.0	753.41	STORM	PR	7'X4'BOX	RCP	750.80	2.61
C125	IL 31	462+37.05	33	RT	754.79	STORM	PR	12	RCP	750.37	2.0	750.20	SANITARY	PR	12	PVC	742.26	7.95
C128	IL 31	463+15.20	33	RT	754.51	STORM	PR	12	RCP	751.80	2.0	751.63	SANITARY	PR	12	PVC	742.02	9.61
C129	IL 31	464+37.76	34	RT	754.31	STORM	PR	12	RCP	749.81	2.0	749.64	SANITARY	PR	12	PVC	741.66	7.98
C131	IL 31	465+96.18	32	RT	755.43	STORM	PR	12	RCP	748.38	2.0	748.21	SANITARY	PR	12	PVC	741.20	7.01
C134	IL 31	467+02.02	16	RT	755.62	STORM	PR	8'X5 BOX	RCP	745.80	6.0	745.30	SANITARY	EX	30	PCCP	740.68	4.62
C135	IL 31	467+49.57	24	LT	753.91	STORM	PR	2'BASIN	RCP	750.08	6.0	749.58	SANITARY	EX	30	PCCP	742.82	6.76
C136	IL 31	468+45.75	21	LT	755.95	STORM	PR	12	RCP	749.70	2.0	749.53	SANITARY	EX	30	PCCP	742.82	6.71
C137	IL 31	469+19.87	20	LT	756.19	STORM	PR	12	RCP	749.88	2.0	749.71	SANITARY	EX	30	PCCP	742.85	6.87
C138	IL 31	469+51.03	20	LT	756.28	STORM	PR	12	RCP	749.98	2.0	749.81	SANITARY	EX	30	PCCP	742.86	6.95
C139	IL 31	469+82.08	20	LT	756.37	STORM	PR	12	RCP	749.59	2.0	749.42	SANITARY	EX	30	PCCP	742.87	6.55
C140	IL 31	470+14.92	21	LT	756.46	STORM	PR	12	RCP	749.71	2.0	749.54	SANITARY	EX	30	PCCP	742.88	6.66
C141	IL 31	470+14.50	30	RT	755.58	STORM	PR	12	RCP	749.09	2.0	748.92	SANITARY	PR	6	PVC	746.84	2.09
C145	IL 31	470+79.93	2	RT	756.28	STORM	PR	12	RCP	748.52	2.0	748.35	SANITARY	PR	8	PVC	741.38	6.98
C146	IL 31	471+00.68	2	RT	757.14	STORM	PR	12	RCP	748.43	2.0	748.26	SANITARY	PR	8	PVC	741.49	6.77
C149	IL 31	471+60.00	1	RT	757.77	STORM	PR	12	RCP	748.28	2.0	748.11	SANITARY	PR	8	PVC	741.82	6.29
C150	IL 31	472+48.18	0	RT	759.57	STORM	PR	12	RCP	748.38	2.0	748.21	SANITARY	PR	8	PVC	742.31	5.91
C155	IL 31	473+30.00	0	LT	761.96	STORM	PR	12	PVC	748.33	0.5	748.29	SANITARY	PR	8	PVC	742.76	5.53
C156	IL 31	473+66.33	14	RT	762.37	STORM	PR	8'X5'BOX	RCP	745.80	6.0	745.30	SANITARY	PR	8	DIP	743.12	2.18
C157	IL 31	473+84.98	1	LT	762.82	SANITARY	EX	8	CLAY	749.76	1.7	749.62	STORM	PR	12	RCP	748.96	0.66
C158	IL 31	474+12.09	1	LT	762.88	SANITARY	EX	8	CLAY	750.05	1.7	749.91	STORM	PR	12	RCP	749.54	0.37
C170	IL 31	476+37.00	14	RT	759.56	SANITARY	PR	6	PVC	752.43	0.2	752.41	STORM	PR	8'X5'BOX	RCP	750.35	2.06
C160	IL 31	476+45.01	0	RT	759.55	SANITARY	EX	8	CLAY	752.53	1.7	752.39	STORM	PR	12	RCP	749.12	3.27
C161	IL 120	298+79.83	50	RT	758.84	SANITARY	EX	10	CLAY	753.45	1.8	753.30	STORM	PR	12	RCP	750.60	2.69
C163	IL 120	297+00.00	1	LT	761.77	STORM	PR	12	RCP	757.76	2.0	757.59	SANITARY	EX	10	CLAY	755.82	1.78
C165	IL 120	295+89.88	3	LT	763.47	STORM	PR	CATCH BASIN	RCP	759.35	2.0	759.18	SANITARY	EX	10	CLAY	756.56	2.62
C173	FRONT ST	480+56.21	16	RT	747.78	STORM	PR	12	RCP	743.64	2.0	743.47	SANITARY	EX	8	CLAY	742.78	0.70
C176	IL 120	302+49.39	41	RT	755.32	STORM	PR	12	RCP	751.30	2.0	751.13	SANITARY	PR	8	PVC	748.39	2.74
C177	IL 120	303+35.40	41	RT	755.17	STORM	PR	12	RCP	752.08	2.0	751.91	SANITARY	PR	8	PVC	748.25	3.66
C189	IL 120	311+82.09	58	LT	754.52	STORM	PR	12	RCP	750.30	2.0	750.13	SANITARY	EX	10	CLAY	742.16	7.97
C191	IL 120	312+27.57	68	RT	752.90	STORM	PR	18	RCP	743.75	2.5	743.54	SANITARY	EX	10	PVC	740.96	2.58

WMQ - WATER MAIN QUALITY
CIPP - CURED IN PLACE PIPE (LINING)
DIP - DUCTILE IRON PIPE
PVC - POLYVINYL CHLORIDE
RCP - REINFORCED CONCRETE PIPE
PCCP - PRESTRESSED CONCRETE CYLINDER PIPE

EXISTING SANITARY SEWERS TO BE LINED (X5430208)

ALIGN	FROM	TO	LENGTH (FT)	DIA. (IN)	TYPE	SERVICES
IL 31	425+78	442+07	1633	8	CLAY	3
IL 31	473+66	476+97	331	8	CLAY	3
		TOTAL	1964			

SANITARY MANHOLES TO BE ADJUSTED (60255500)

ALIGNMENT	STATION OFFSET	EX RIM EL	PR RIM EL	EACH
IL 31	401+14.08, 44.78' RT	821.27	821.26	1
IL 31	403+21.05, 46.38' RT	816.44	816.51	1
IL 31	407+76.72, 46.13' RT	795.81	796.08	1
IL 31	410+31.17, 49.80' RT	783.36	783.46	1
IL 31	412+91.25, 48.93' RT	773.75	774.58	1
IL 31	414+84.27, 37.81' RT	767.98	769.71	1
IL 31	415+06.11, 37.48' RT	768.91	769.62	1
IL 31	417+94.74, 39.60' RT	766.76	767.29	1
IL 31	417+97.26, 44.27' RT	766.64	767.20	1
IL 31	425+77.73, 29.40' LT	766.62	766.51	1
IL 31	428+60.63, 28.79' LT	766.04	765.42	1
IL 31	432+50.79, 28.16' LT	765.60	766.32	1
IL 31	436+51.60, 19.71' LT	762.02	762.70	1
IL 31	437+21.45, 24.15' RT	761.30	762.31	1
IL 31	440+01.33, 19.65' LT	757.86	758.82	1
IL 31	442+04.65, 19.21' LT	756.15	757.78	1
IL 31	442+07.16, 24.70' LT	756.51	757.66	1
KANE AVE	11+18.50, 2.76' RT	753.60	754.51	1
IL 31	453+63.83, 72.29' LT	754.44	755.64	1
IL 31	456+87.95, 46.40' LT	756.12	755.60	1
IL 31	467+01.12, 25.36' RT	754.91	755.41	1
IL 31	467+05.92, 26.57' LT	755.76	755.35	1
IL 31	470+44.06, 21.74' LT	756.31	756.53	1
IL 31	476+97.16, 0.06' RT	758.17	758.42	1
IL 120	292+48.51, 22.48' LT	762.36	762.19	1
IL 120	293+97.62, 4.58' LT	765.57	765.53	1
IL 120	296+26.54, 3.02' LT	763.01	763.32	1
FRONT ST	480+30.91, 15.69' RT	748.56	749.00	1
			TOTAL	28

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PATRICK a RIVER company

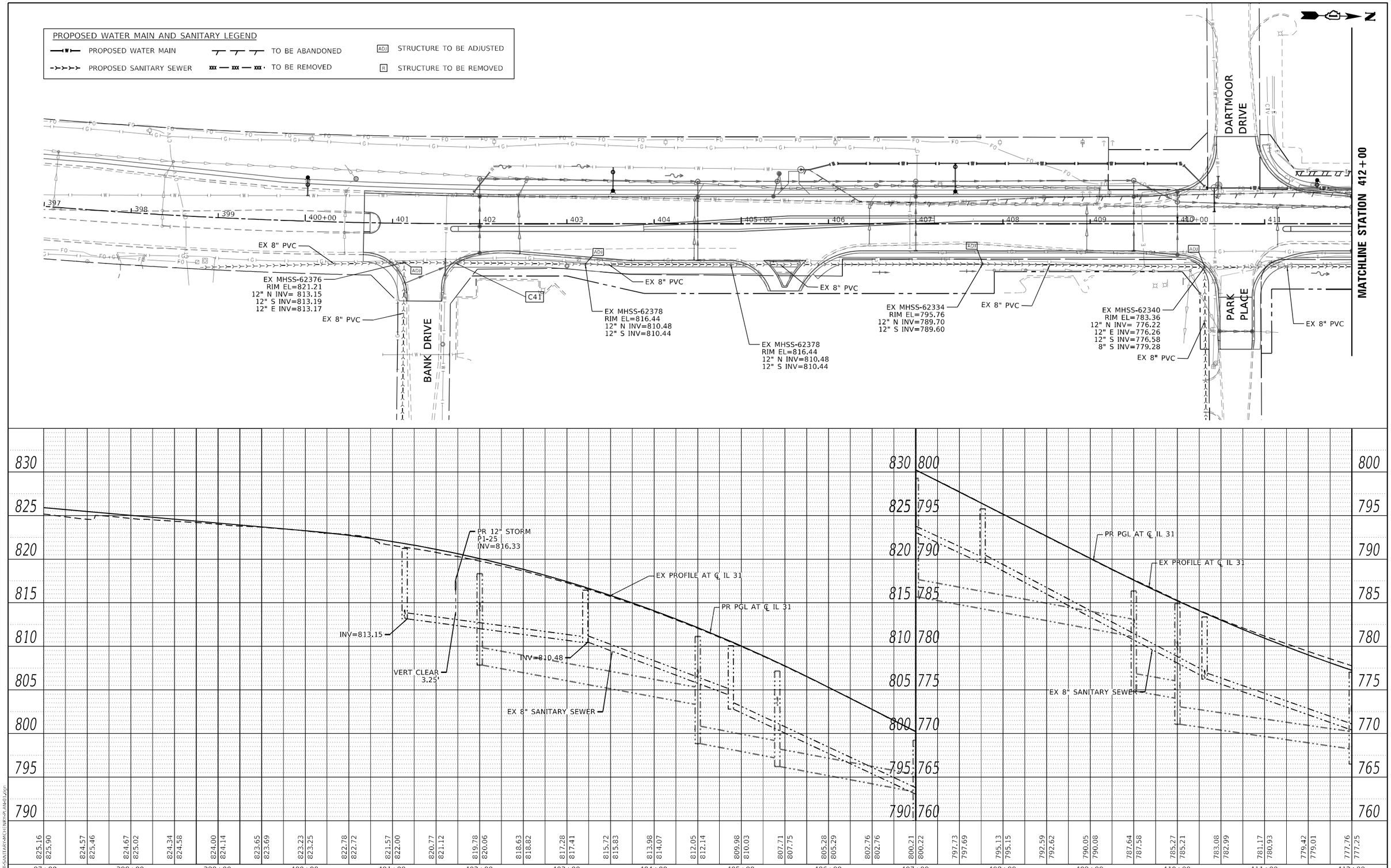
USER NAME = LG028	DESIGNED - EK	REVISED -	
	DRAWN - LG	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - SA	REVISED -	
PLOT DATE = 4/29/2026	DATE - 04/23/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
SANITARY SEWERS – CITY OF MCHENRY

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	265
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	



PLAN
NOTE BOOK NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
BY
DATE

MODEL: Default
FILE NAME: C2-SHT-SANITARY-MCHENRY-PLAN-01.dgn

PATRICK a RAM company

USER NAME = LG028	DESIGNED - SA	REVISED -	
	DRAWN - CRD/LG	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -	
PLOT DATE = 3/6/2026	DATE - 03/06/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF McHENRY – SANITARY RELOCATION
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 1 OF 9 SHEETS | STA. 397+00 TO STA. 412+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	266
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

PROPOSED WATER MAIN AND SANITARY LEGEND

PROPOSED WATER MAIN — TO BE ABANDONED — STRUCTURE TO BE ADJUSTED (ADJ)

PROPOSED SANITARY SEWER — TO BE REMOVED — STRUCTURE TO BE REMOVED (R)

MATCHLINE STATION 412+00

MATCHLINE STATION 425+00

PR WATER QUALITY BASIN #1

EX 30" PCCP

C52

EX 8" PVC

EX 30" PCCP

C49

EX 8" PVC

EX 8" PVC

C48

EX 8" PVC

EX MHSS-62347
RIM EL=773.75
12" N INV= 767.27
12" S INV=767.29

EX MHSS-62349
RIM EL=767.97
12" N INV= 760.33
12" S INV=760.67

C58

EX MHSS-62355
RIM EL=766.80
36" E INV= 754.44
36" SW INV=754.28
12" S INV=756.46

EX 30" PCCP

EX MHSS-62356
RIM EL=766.62
36" E INV= 754.08
36" W INV=754.40

412 413 414 415+00 416 417 418 419 420+00 421 422 423 424

PR 15" STORM
P2-31
INV=774.60

4' MANHOLE
S3-61
INV=769.66
RIM ELEV=773.07

VERTICAL CLEARANCE 3.85'

VERTICAL CLEARANCE 3.12'

EX 8" SANITARY SEWER

EX PROFILE AT ℄ IL 31

PR PGL AT ℄ IL 31

790 785 780 775 770 765 760 755 750

412+00	413+00	414+00	415+00	416+00	417+00	418+00	419+00	420+00	421+00	422+00	423+00	424+00	425+00
777.76 / 777.25	776.17 / 775.63	774.66 / 774.17	773.33 / 772.86	772.13 / 771.70	771.10 / 770.69	770.17 / 769.83	769.40 / 769.12	768.83 / 768.56	768.34 / 768.16	767.85 / 767.89	767.46 / 767.65	767.33 / 767.41	767.24 / 767.17	767.08 / 766.93	767.02 / 766.69	766.92 / 766.57	766.84 / 766.60	766.75 / 766.75	766.75 / 766.90	766.84 / 767.05	766.86 / 767.20	766.87 / 767.35	766.92 / 767.50	766.98 / 767.55	766.94 / 767.45	766.83 / 767.25

PLAN: SURVEYED — PLOTTED — R.O.W. PERMIT CHECKED — RT. OF WAY CHECKED — CADD FILE NAME — NOTE BOOK — NO. — BY — DATE

PROFILE: SURVEYED — PLOTTED — CHECKED — R.R. NOTED — STRUCTURE NUMBERS CHKD — NOTE BOOK — NO. — BY — DATE

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PATRICK a KCI company

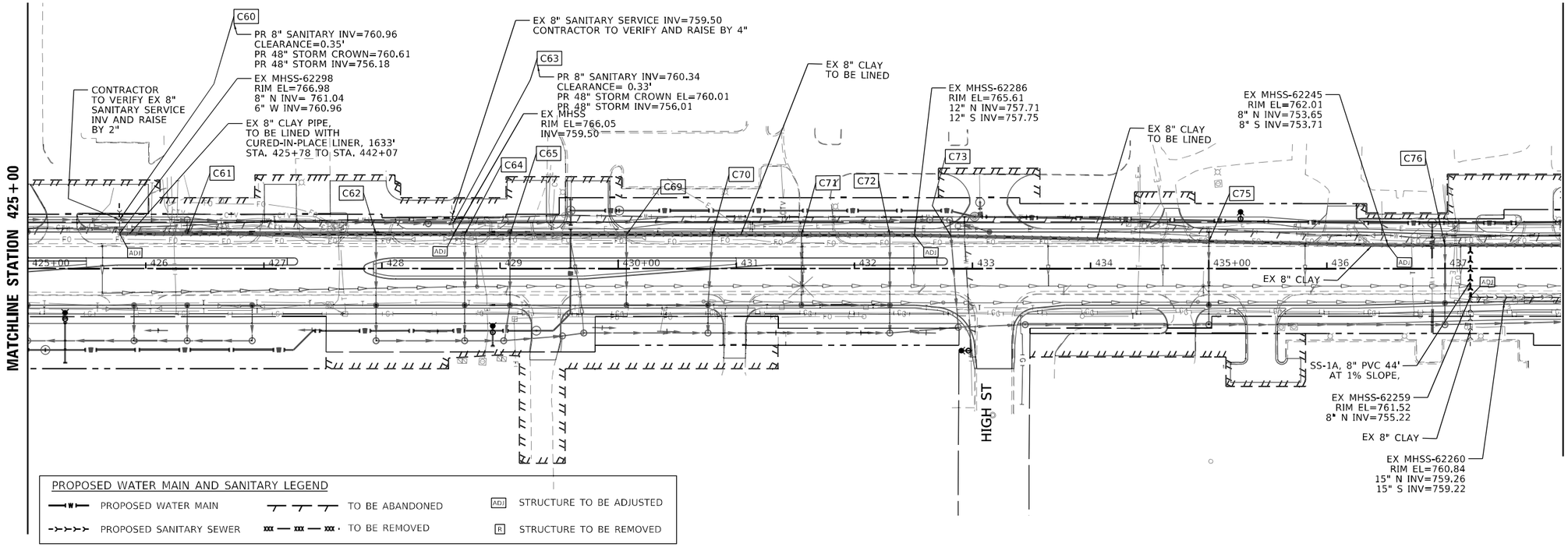
USER NAME = LG028	DESIGNED - SA	REVISED -	
	DRAWN - CRD/LG	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -	
PLOT DATE = 3/6/2026	DATE - 03/06/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF McHENRY – SANITARY RELOCATION
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 2 OF 9 SHEETS | STA. 412+00 TO STA. 425+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	267
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	



PLAN
NOTE BOOK NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
BY
DATE

MODEL: Default
FILE NAME: C:\SHT-SANITARY-MCHENRY-PLAN-03.dgn

PATRICK a RAM company

USER NAME = LG028	DESIGNED - SA	REVISED -	
	DRAWN - CRD/LG	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -	
PLOT DATE = 3/6/2026	DATE - 03/06/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF McHENRY – SANITARY RELOCATION
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 3 OF 9 SHEETS | STA. 425+00 TO STA. 438+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	268
		CONTRACT NO. 62U72		
		ILLINOIS FED. AID PROJECT		

MATCHLINE STATION 438+00

MATCHLINE STATION 451+00

EX 8" CLAY PIPE, TO BE LINED WITH CURED-IN-PLACE LINER, 1629' STA. 425+78 TO STA. 442+07

EX MHSS-62238 RIM EL=757.84 8" N INV=752.36 8" E INV=752.38+/- 8" S INV=752.38

EX MHSS-62233 RIM EL=756.47 8" N INV=752.36 8" SE INV=750.95

EX MHSS-62234 RIM EL=756.09 8" NW INV=750.27 8" S INV=750.29 6" W INV=750.39

PR DROP MANHOLE, SAN-1 STA. 443+20.26, 24.25' LT RIM EL=756.52 INV = 750.77 (EX 8" CLAY, S) INV = 749.44 (PR 8" PVC, E)

EX FLOODPLAIN LIMIT

NOTE:
1. AT CROSSING C87, STORM SEWER INVERT TO BE RAISED TO PROVIDE ATLEAST 0.33' VERTICAL CLEARANCE WITH EX 8" SANITARY

EX MHSS-62219 RIM EL= 755.34 8" N INV=750.26 8" S INV=750.24

PR MANHOLE, SAN-5 STA. 446+75.76, 49.83' LT RIM EL=755.13 INV=749.90+/- (W, EX 8" CIPP) INV= 746.03 (E, 8" PVC)

C86

C87

SEE NOTE 1

EX 8" CLAY (CIPP)

C88

PR 5'x3' BOX INV=750.64 CLEARANCE= 3.47' PR 8" DIP SANITARY CROWN=746.67 PR 8" DIP SEWER INV=746.00

PR 5'x3' BOX INV=751.28 CLEARANCE= 4.42' 8" SEWER CROWN=746.36 8" SEWER INV=745.69

PR DROP MANHOLE, SAN-15 STA. 449+96.36, 43.31' LT RIM EL=756.06 INV = 745.69 (E, 8" PVC) INV = 749.97 (W, 8" PVC)

EX 8" PVC

SS-15A, 8" PVC 23' @ 1.00%

C97

EX MANHOLE, SAN-15A STA. 449+76.96, 55.22' LT RIM EL=754.02 INV=750.30 (W, 12" PVC) INV=750.14 (E, 12" PVC)

C77

EX 8" CLAY

EX 8" SEWER, 54' TO BE ABANDONED

EX 8" CIPP

C82

C83

EX 8" CLAY TILE PIPE TO BE ABANDONED, 1002' STA. 443+20 TO STA. 453+22

SS-1, 8" PVC 62' AT 0.40% SLOPE

PR MANHOLE, SAN-2 STA. 443+19.00, 37.40' RT RIM EL=756.71 INV = 749.19 (8" PVC, E,W,S)

EX MHSS-62265 RIM EL=758.10 8" W INV=752.40 8" E INV=752.44 8" S INV= 752.46

C78

C79

PR MANHOLE, SAN-2A STA. 439+93, 34' RT RIM EL=758.66 INV=752.66 (N,E)

EX 8" SANITARY SERVICE

SS-2A, 8" PVC 326' AT 1.06% SLOPE,

EX MHSS-62266 RIM EL=758.62 8" W INV=753.50 8" E INV=753.74

EX 8" CLAY PIPE, 272.69' TO BE REMOVED STA. 437+19.86 TO STA. 439+92.55

PR 3'x3' BOX INV=751.15 CLEARANCE= 1.43' 8" DIP SEWER CROWN=749.22 8" DIP SEWER INV=749.14

PR MANHOLE, SAN-3 STA. 443+17.30, 196.50' RT RIM EL=753.23 INV = 748.55 (8" PVC, W,S)

EX MANHOLE, SAN-4 STA. 442+88.70, 196.50' RT RIM EL=752.60 INV = 748.43 (EX 8" CLAY, E) INV =748.43 (PR 8" PVC N)

SS-2, 8" DIP 34' AT 0.40% SLOPE, 8" PVC 125' AT 0.40% SLOPE

SS-3, 8" PVC 29' AT 0.40% SLOPE

UN-NAMED TRIBUTARY TO FOX RIVER

ANNE ST

LILLIAN AVE

GROVE AVE

OAK AVE

C89

PR 42" RCP INV=747.80 CLEARANCE= 0.88' 8" SEWER CROWN=746.42 8" SEWER INV=745.83

SS-5, 8" DIP 28' AT 0.30% SLOPE, 8" PVC 66' AT 0.30% SLOPE,

C90

C91

EX 8" CLAY

SS-6, 12" PVC 322' @ 0.29%

PR MANHOLE, SAN-6 STA. 446+74.77, 44.00' RT RIM EL=755.18 INV = 745.75 (N, 12" PVC) INV = 745.75 (W, 8" PVC) INV = 745.75 (E, EX 8" CLAY)

C95

C98

11.00'

6.00'

16.00'

PR 42" RCP INV=747.55 CLEARANCE= 1.56' 8" PVC CROWN=745.49 8" PVC INV=744.90

PR MANHOLE, SAN-7 STA. 449+96.41, 44.00' RT RIM EL=755.18 INV = 744.82 (N,S 12" PVC) INV = 744.82 (E, 8" PVC) INV = 744.82 (E, EX 8" CLAY)

SS-7, 12" PVC 326' @ 0.29%

SS-15, 8" PVC 66' @ 1.00%, 8" DIP 22' @ 1.00%

EX 8" CLAY

PROPOSED WATER MAIN AND SANITARY LEGEND

PROPOSED WATER MAIN

PROPOSED SANITARY SEWER

TO BE ABANDONED

TO BE REMOVED

ADJ STRUCTURE TO BE ADJUSTED

R STRUCTURE TO BE REMOVED

MATCHLINE STATION 438+00

MATCHLINE STATION 451+00

EX 8" SANITARY SEWER (RIGHT)

PR 12" STORM P4-01 INV=755.46

PR MH SAN-2A

PR 12" STORM P4-06 INV=754

PR 12" STORM, P4-08 INV=751.97

PR 12" STORM,P4-24 INV=753.63

PR 12" STORM,P4-10 NV=753.08

EX 8" CIPP SANITARY SEWER TO REMAIN

VERT CLEAR 0.97'

PR MH SAN-2

EX PROFILE AT ℄ IL 31

PR PGL AT ℄ IL 31

PR MH SAN-6

PR MH SAN-7

PR 15" STORM P4-07 INV=751.72

P4-74, 42"

P4-71, 48"

VERT CLEAR=1.1'

VERT CLEAR 2.67'

VERT CLEAR 2.71'

VERT CLEAR 2.06'

VERT CLEAR 5.2'

INV. = 752.66

PR 8" PVC SANITARY 326' @ 1.06%

PR BOX CULVERT 3'WX3'H INV= 751.74

EX 8" CLAY SANITARY SEWER TO BE LINED

INV. = 749.19

EX 8" SANITARY SEWER TO BE ABANDONED

INV. = 747.87

INV. = 745.75

PR 12" PVC @ 0.29%

INV. = 744.81

438+00	439+00	440+00	441+00	442+00	443+00	444+00	445+00	446+00	447+00	448+00	449+00	450+00	451+00
760.25 / 761.54	759.67 / 760.75	759.11 / 760.07	758.67 / 759.56	758.20 / 759.22	757.65 / 758.96	757.16 / 758.70	756.79 / 758.44	756.45 / 758.19	756.14 / 757.93	755.83 / 757.67	755.59 / 757.41	755.40 / 757.16	755.23 / 756.90	755.20 / 756.64	755.10 / 756.38	754.98 / 756.15	754.92 / 756.05	754.83 / 756.10	754.71 / 756.25	754.67 / 756.40	754.62 / 756.55	754.52 / 756.71	754.41 / 756.86	754.29 / 757.01	754.18 / 757.16	754.27 / 757.23

775 770 765 760 755 750 745 740 735

PLAN — SURVEYED / PLOTTED / CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK / NO. / BY / DATE

PROFILE — SURVEYED / PLOTTED / CHECKED / R.R. NOTED / STRUCTURE NO/PATHS CHKD / NOTE BOOK / NO. / BY / DATE

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PATRICK a KCI company

USER NAME = LG028	DESIGNED - SA	REVISED -	
	DRAWN - CRD/LG	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -	
PLOT DATE = 3/6/2026	DATE - 03/06/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF McHENRY – SANITARY RELOCATION
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 4 OF 9 SHEETS | STA. 438+00 TO STA. 451+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	269
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

PROPOSED WATER MAIN AND SANITARY LEGEND

PROPOSED WATER MAIN — TO BE ABANDONED — STRUCTURE TO BE ADJUSTED (ADJ)

PROPOSED SANITARY SEWER — TO BE REMOVED — STRUCTURE TO BE REMOVED (R)

MATCHLINE STATION 451+00

EX 8" CLAY TILE PIPE TO BE ABANDONED, 1002' STA. 443+20 TO STA. 453+22

EX MHSS-62585
RIM EL=753.68
8" N INV=749.49
12" E INV=748.35
12" W INV=748.36

PR DROP MANHOLE, SAN-16
STA. 453+23.00, 45.59' LT
RIM EL=755.77
INV = 748.55(W, EX 12" CLAY)
INV = 744.77 (E, 12" PVC)

KANE AVE

C108

EX 12" CLAY

EX 6" CIPP, 42' TO BE ABANDONED

C107

PR 4'X2' BOX INV=751.93
CLEARANCE=5.74'
PR 12" DIP SANITARY CROWN=745.69
PR 12" DIP SANITARY INV=744.69

EX MHSS-62587
RIM EL=754.47
8" NW INV=749.15
8" S INV=749.11

SS-16, 12" DIP 23',
12" PVC 67',
90' @ 1.00%

EX MHSS-62165
RIM EL=754.50
8" N INV=749.44
8" SW INV=749.52

EX 6" CIPP, 334' TO BE ABANDONED

MEADOW LANE

C111

C112

EX MHSS-62159
RIM EL=756.25
6" S INV=752.17
6" W INV=752.57

SS-8A, PR 6" PVC SERVICE,
86' @ 1%

PR MANHOLE, SAN-10A
STA. 462+20.00, 33.15' RT
RIM EL=754.53
INV = 741.29 (N,S 12" PVC)

EX 6" SERVICE LINE

EX MHSS-62153
RIM EL=755.09
8" N INV=748.83
8" E INV=749.33
8" S INV=748.79

MATCHLINE STATION 464+00

451 | 452 | 453 | 454 | 455+00 | 456 | 457 | 458 | 459 | 460+00 | 461 | 462 | 463

C101

SS-7, 12" PVC
326' @ 0.29%

16.00'

KANE AVE

C104

SS-8, 12" PVC
178' @ 0.29%

11.00'

C105

SS-8A, 12" PVC
187' @ 0.29%

11.55'

C114

C115

C116

C119

6.30'

C120

C123

C124

C125

C128

SS-10A, 12" PVC
112' @ 0.29% SLOPE

5.00'

C103

C102

PR MANHOLE, SAN-8
STA. 453+22.10, 44.00' RT
RIM EL=755.66
INV = 743.87 (N,S,W 12" PVC)

PR 48" RCP STORM INV=747.21
CLEARANCE=1.56'
PR 12" PVC SANITARY CROWN=745.15
PR 12" PVC SANITARY INV=744.15

PR MANHOLE, SAN-8A
STA. 455+01, 36.00' RT
RIM EL=755.85
INV = 743.36 (N,S,W 12" PVC)

PR MANHOLE, SAN-9
STA. 456+87.05, 35.45' RT
RIM EL=756.34
INV = 742.82 (N,S 12" PVC)
INV = 751.71 (W 6" PVC)

SS-9, 12" PVC
365' @ 0.29%

EX MHSS-62145
RIM EL=754.78
8" N INV=749.98
8" E INV=750.36
8" S INV=750.22

PR MANHOLE, SAN-10
STA. 460+51.99, 33.31' RT
RIM EL=755.49
INV = 741.77 (N,S 12" PVC)
INV = 750.40 (W 6" PVC)

EX 6" SERVICE LINE

EX 8" CLAY SEWER TO BE REMOVED,
305', STA. 460+26 TO STA. 463+32

SS-9A, 6" PVC
6' @ 1% SLOPE

SS-10, 12" PVC
166' @ 0.29%

PR MANHOLE, SAN-11
STA. 463+33.90, 33.94' RT
RIM EL=754.14
INV = 740.97 (N,S 12" PVC)
INV = 749.50 (E 6" PVC)

SS-10B, 6" PVC
6' @ 1% SLOPE

EX 6"
SERVICE LINE

SS-11, 12" PVC
98' @ 0.30%

EX 12" CLAY

PLUG EXISTING 12" CLAY SEWER
INV = 748.23 +/- (E)

NOTES:

1. SANITARY SERVICE LINES TO BE LOCATED IN FIELD AND CONNECTED TO PROPOSED MANHOLES/PROPOSED SEWER.

PLAN

SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME

NOTE BOOK
NO.

BY | DATE

PROFILE

SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATNS CHKD

NOTE BOOK
NO.

BY | DATE

775 | 770 | 765 | 760 | 755 | 750 | 745 | 740 | 735

MATCHLINE STATION 451+00

EX 8" SANITARY SEWER TO BE ABANDONED

PR 15" STORM P5-03 INV=751.37

PR MH SAN-8

PR 15" STORM P5-05 INV=751.73

PR 15" STORM P5-08 INV=750,77

PR MH SAN-8A

PR 12" STORM P5-69 INV=750.19

PR PGL AT ℄ IL 31

PR 12" STORM P5-18 INV=748.23

PR MH SAN-9

PR 12" STORM P5-73 INV=748.34

EX PROFILE AT ℄ IL 31

PR 15" STORM P5-17 INV=751.89

PR MH SAN-10

PR 15" STORM P5-15 INV=747.37

PR 15" STORM P5-16 INV=751.88

PR 12" STORM P5-22 INV=750.28

7'X4' BOX

PR MH SAN-10A

EX 8" SANITARY SEWER TO BE REMOVED

PR 12" STORM P5-67 INV=750.37

PR MH SAN-11

PR 12" STORM P5-25 INV=751.80

MATCHLINE STATION 464+00

VERT. CLEAR 5.98

7.10'

6.30'

6.00'

2.5'

EX 6" SANITARY TO BE ABANDONED

4.60'

4.00'

8.82'

8.95'

7.83'

9.82'

INV =746.68

PR 12" PVC @ 0.29%

INV. = 743.87

PR 12" PVC @ 0.29%

INV. = 743.36

PR 12" PVC @ 0.29%

INV. = 742.82

PR 12" PVC @ 0.29%

INV. = 741.77

PR 12" PVC @ 0.29%

INV. = 741.29

PR 12" PVC @ 0.29%

INV. = 740.97

PR 12" PVC @ 0.30%

754.27 757.23 | 754.19 757.15 | 754.18 756.99 | 754.14 756.83 | 754.22 756.67 | 754.28 756.51 | 754.36 756.35 | 754.46 756.19 | 754.49 756.11 | 754.60 756.18 | 754.64 756.33 | 754.78 756.48 | 754.90 756.63 | 755.00 756.78 | 755.08 756.81 | 755.20 756.69 | 755.27 756.54 | 755.24 756.39 | 755.17 756.24 | 755.11 756.09 | 755.10 755.94 | 755.11 755.79 | 755.18 755.63 | 755.20 755.48 | 755.35 755.33 | 755.48 755.18 | 755.58 755.10

451+00 | 452+00 | 453+00 | 454+00 | 455+00 | 456+00 | 457+00 | 458+00 | 459+00 | 460+00 | 461+00 | 462+00 | 463+00 | 464+00

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PATRICK a RPA company

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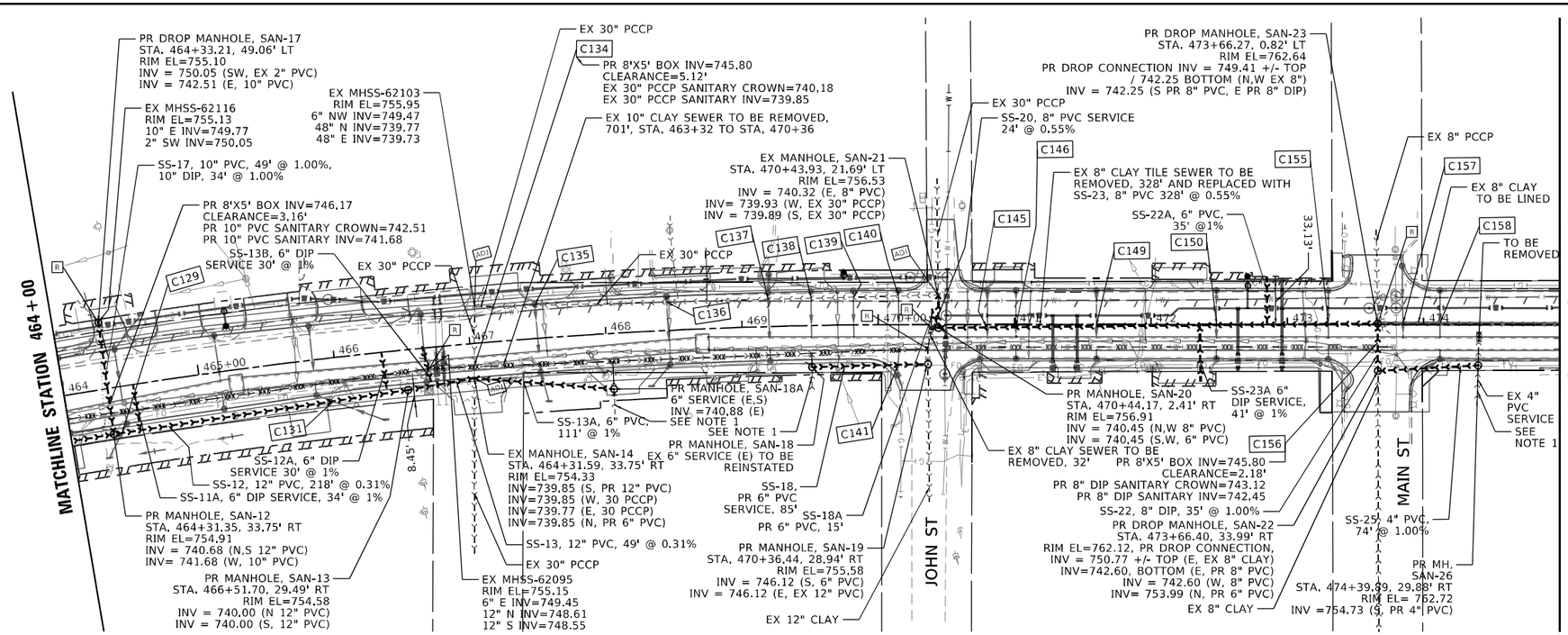
	DRAWN - CRD	REVISED -	REVBY2
PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -	REVBY3
PLOT DATE = 4/23/2026	DATE - 04/23/2026	REVISED -	REVBY4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF McHENRY – SANITARY RELOCATION
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 5 OF 9 SHEETS | STA. 451+00 TO STA. 464+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	270
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	



PLAN — SURVEYED; PLOTTED; ALIGNMENT CHECKED; RT. OF WAY CHECKED; CADD FILE NAME; NOTE BOOK; NO.; BY; DATE

PROFILE — SURVEYED; PLOTTED; GRADES CHECKED; R.P.V. NOTED; STRUCTURE NUMBERS CHKD; NOTE BOOK; NO.; BY; DATE

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PATRICK a RAM company

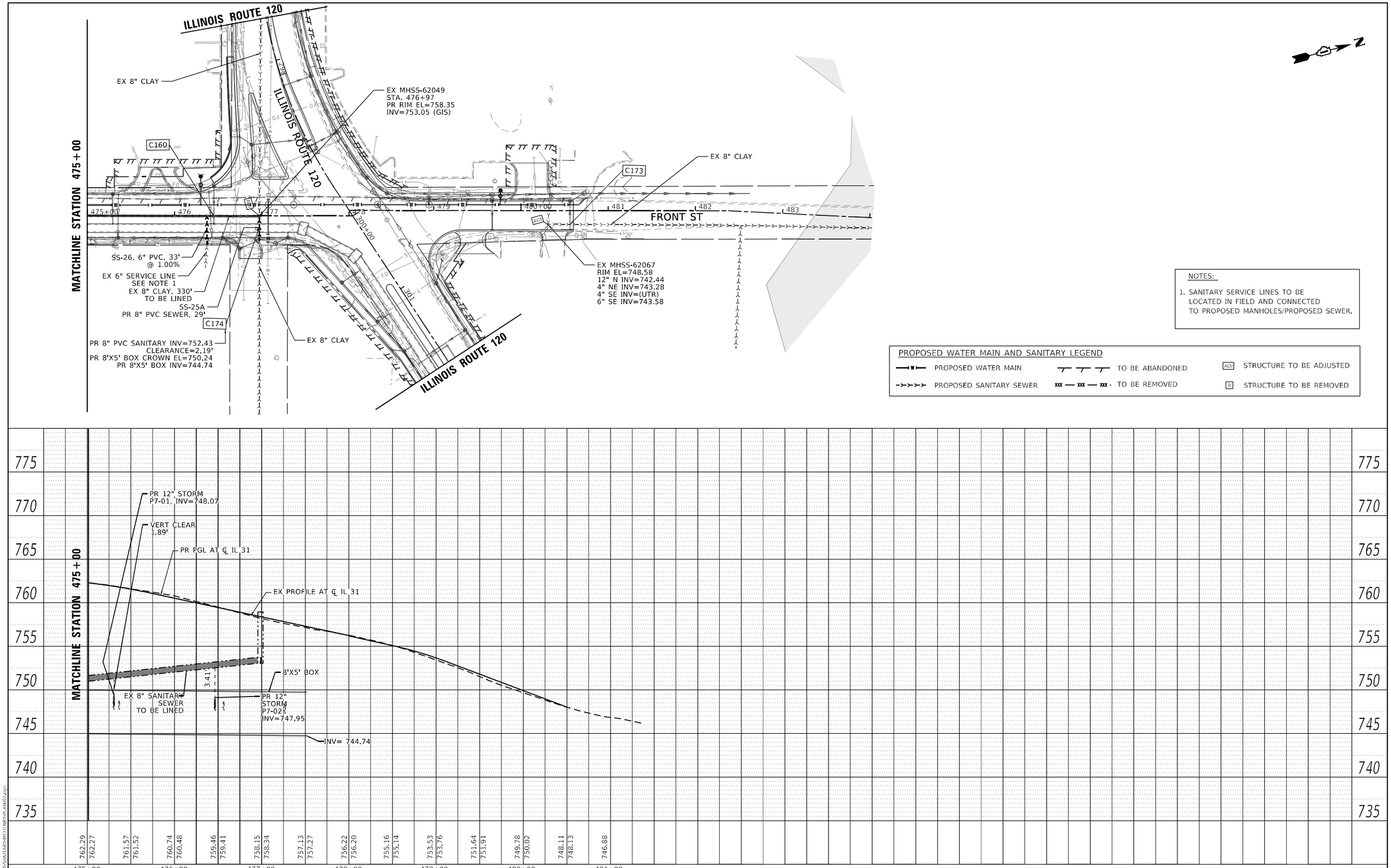
USER NAME = LG028	DESIGNED - SA	REVISED -	REVBY1
	DRAWN - CRD	REVISED -	REVBY2
PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -	REVBY3
PLOT DATE = 4/23/2026	DATE - 04/23/2026	REVISED -	REVBY4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF McHENRY – SANITARY RELOCATION
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 6 OF 9 SHEETS | STA. 464+00 | TO STA. 475+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	271
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	



NOTES:

1. SANITARY SERVICE LINES TO BE LOCATED IN FIELD AND CONNECTED TO PROPOSED MANHOLES/PROPOSED SEWER.

PROPOSED WATER MAIN AND SANITARY LEGEND

—W—	PROPOSED WATER MAIN		TO BE ABANDONED	ADJ	STRUCTURE TO BE ADJUSTED
	PROPOSED SANITARY SEWER	xxx — xxx — xxx	TO BE REMOVED	R	STRUCTURE TO BE REMOVED

PLAN: SURVEYED / PLOTTED / ALIGNMENT CHECKED / RT. OF WAY CHECKED / CADD FILE NAME / NOTE BOOK NO. / BY / DATE

PROFILE: SURVEYED / PLOTTED / GRADES CHECKED / B.M. NOTED / STRUCTURE NOTATIONS CHKD / NOTE BOOK NO. / BY / DATE

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PATRICK a RAM company

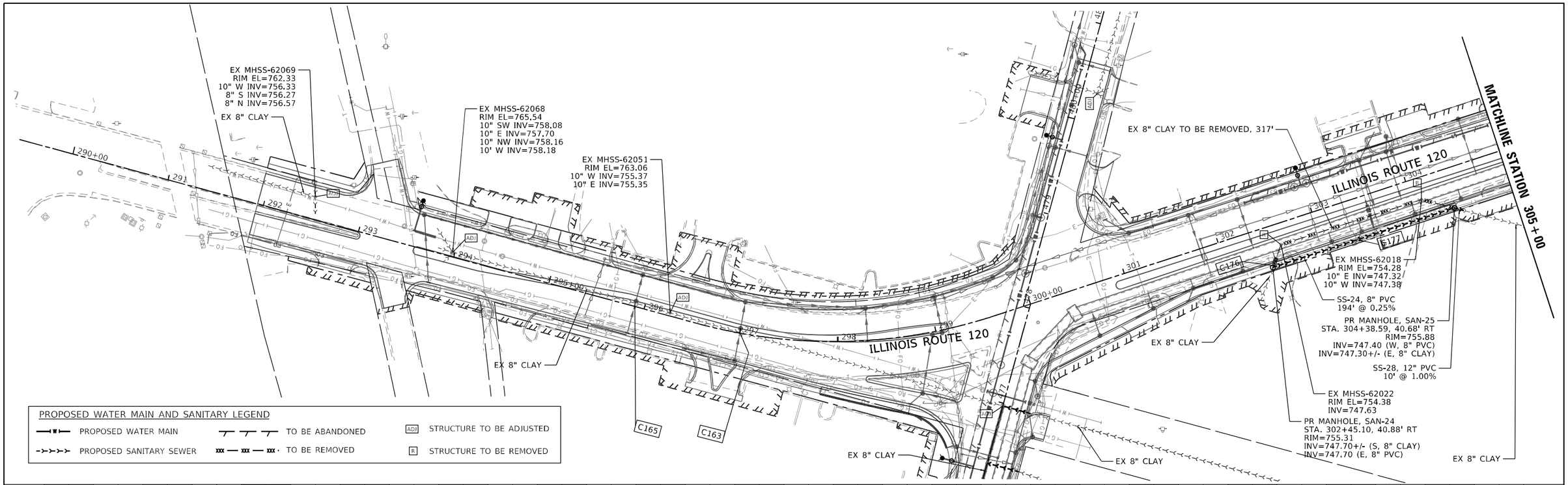
USER NAME = LG028	DESIGNED - SA	REVISED - REVBY1	
	DRAWN - CRD/LG	REVISED - REVBY2	
PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED - REVBY3	
PLOT DATE = 3/6/2026	DATE - 03/06/2026	REVISED - REVBY4	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF McHENRY – SANITARY RELOCATION
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 7 OF 9 SHEETS | STA. 475+00 TO STA. 484+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	272
		CONTRACT NO. 62U72		
		ILLINOIS FED. AID PROJECT		



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SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
BY
DATE

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PATRICK a RAM company

USER NAME = LG028	DESIGNED - SA	REVISED - REVBY1	
	DRAWN - CRD/LG	REVISED - REVBY2	
PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED - REVBY3	
PLOT DATE = 3/6/2026	DATE - 03/06/2026	REVISED - REVBY4	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF McHENRY – SANITARY RELOCATION
ILLINOIS ROUTE 120

SCALE: 1"=50' | SHEET 8 OF 9 SHEETS | STA. 287+00 TO STA. 297+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	273

CONTRACT NO. 62U72

ILLINOIS FED. AID PROJECT

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
NOTE BOOK
NO.
BY
DATE

MATCHLINE STATION 305+00

ILLINOIS ROUTE 120

MILLSTREAM DR

THIRD ST

BOONE CREEK

EX 10" CLAY

EX MHSS (GIS)
RIM EL=751.98
INV=742.08

EX 10" CLAY

C189

EX MHSS (GIS)
RIM EL=745.73
INV=741.00

EX 10" PVC

C191

PR 18" STORM INV=743.75
CLEARANCE=2.83'
EX 10" PVC SEWER CROWN=740.92
EX 10" PVC SEWER INV=740.09

SS-27, PR 8" DIP SEWER,
32' @ 1.00%
START INV=740.04

PR 8'x6' RC BOX SEWER INV=743.51
VERTICAL CLEARANCE=3.08'
PR 8" DIP SANITARY SEWER CROWN=740.43
PR 8" DIP SANITARY SEWER INV=739.76

EX 8" CLAY

EX MHSS (GIS)
RIM EL=744.90
INV=739.54

EX 10" PVC

EX MHSS (GIS)
RIM EL=742.74
INV=739.51

EX 10" CLAY

CONTINUATION BELOW RIGHT

N

PROPOSED WATER MAIN AND SANITARY LEGEND

PROPOSED WATER MAIN — TO BE ABANDONED — ADJ STRUCTURE TO BE ADJUSTED

PROPOSED SANITARY SEWER — TO BE REMOVED — R STRUCTURE TO BE REMOVED

CONTINUATION ABOVE LEFT

SS-27A
PR 10" DIP SEWER, 24' @ 0.03%

PR 60" STORM INV=741.15
CLEARANCE=0.30'
PR 10" DIP SANITARY SEWER CROWN=740.25
PR 10" DIP SANITARY SEWER INV=739.42

EX MHSS (GIS)
RIM EL=745.90
INV=739.42

EX 10" CLAY

EX MHSS (GIS)
RIM EL=744.56
INV=739.16

PROFILE
SURVEYED
PLOTTED
CHECKED
NOTE BOOK
NO.
BY
DATE

MATCHLINE STATION 305+00

EX PROFILE AT ℄ IL 120

PR PGL AT ℄ IL 120

PR MH SAN-25

PR 12" STORM
P10-58
INV=750.30

PR 12" STORM
P10-60
INV=743.60

VERTICAL CLEARANCE 8.17'

EX 10" SANITARY SEWER

VERTICAL CLEARANCE 1.69'

775 770 765 760 755 750 745 740 735

754.63 755.83 | 754.63 755.70 | 754.67 755.55 | 754.79 755.40 | 754.66 755.24 | 754.52 755.09 | 754.34 754.94 | 754.45 754.79 | 754.35 754.63 | 754.33 754.48 | 754.11 754.33 | 754.09 754.32 | 754.30 754.54 | 754.83 754.99 | 755.54 755.50 | 756.26 | 756.77 | 757.03

305+00 306+00 307+00 308+00 309+00 310+00 311+00 312+00 313+00

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PATRICK a RPA company

USER NAME = LG028	DESIGNED - SA	REVISED -	REVBY1
	DRAWN - CRD/LG	REVISED -	REVBY2
PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -	REVBY3
PLOT DATE = 3/6/2026	DATE - 03/06/2026	REVISED -	REVBY4

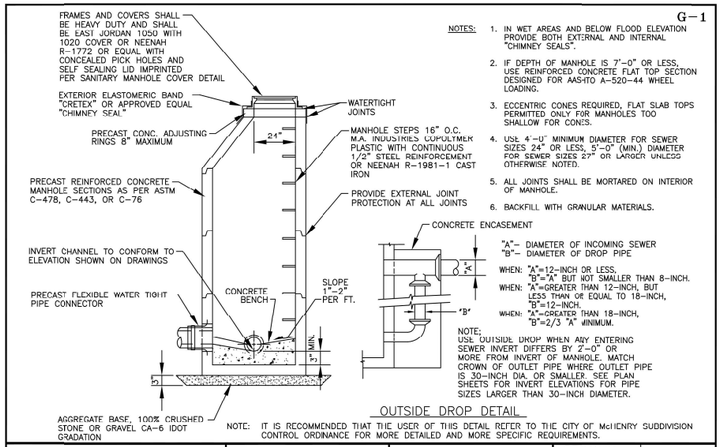
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF McHENRY – SANITARY RELOCATION
ILLINOIS ROUTE 120

SCALE: 1"=50' | SHEET 9 OF 9 SHEETS | STA. 305+00 | TO STA. 314+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	274
		CONTRACT NO. 62U72		
	ILLINOIS	FED. AID PROJECT		

G-1



NOTES:

1. IN WET AREAS AND BELOW FLOOD ELEVATION PROVIDE BOTH EXTERNAL AND INTERNAL "CHIMNEY SEALS".
2. IF DEPTH OF MANHOLE IS 7'-0" OR LESS, USE REINFORCED CONCRETE FLAT TOP SECTION DESIGNED FOR AASHTO A-520-44 WHEEL LOADING.
3. ECCENTRIC CONES REQUIRED, FLAT SLAB TOPS PERMITTED ONLY FOR MANHOLES TOO SHALLOW FOR CONES.
4. USE 4'-0" MINIMUM DIAMETER FOR SEWER SIZES 24" OR LESS, 5'-0" (MIN.) DIAMETER FOR SEWER SIZES 27" OR LARGER UNLESS OTHERWISE NOTED.
5. ALL JOINTS SHALL BE MORTARED ON INTERIOR OF MANHOLE.
6. BACKFILL WITH GRANULAR MATERIALS.

"A"- DIAMETER OF INCOMING SEWER
"B"- DIAMETER OF DROP PIPE

WHEN: "A"=12-INCH OR LESS, "B"="A" BUT NOT SMALLER THAN 8-INCH.
WHEN: "A"=GREATER THAN 12-INCH, BUT LESS THAN OR EQUAL TO 18-INCH, "B"=12-INCH.
WHEN: "A"=GREATER THAN 18-INCH, "B"=2/3 "A" MINIMUM.

NOTE:
USE OUTSIDE DROP WHEN ANY ENTERING SEWER INVERT DIFFERS BY 2'-0" OR MORE FROM INVERT OF MANHOLE. MATCH CROWN OF OUTLET PIPE WHERE OUTLET PIPE IS 30-INCH DIA. OR SMALLER. SEE PLAN SHEETS FOR INVERT ELEVATIONS FOR PIPE SIZES LARGER THAN 30-INCH DIAMETER.

OUTSIDE DROP DETAIL

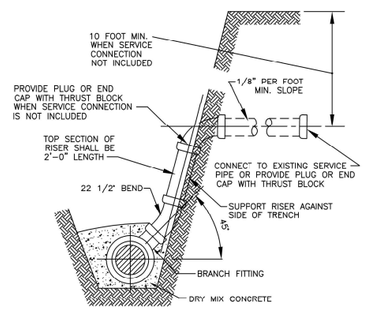
NOTE: IT IS RECOMMENDED THAT THE USER OF THIS DETAIL REFER TO THE CITY OF McHENRY SUBDIVISION CONTROL ORDINANCE FOR MORE DETAILED AND MORE SPECIFIC REQUIREMENTS.

SANITARY MANHOLE DETAIL	CITY OF McHENRY, ILLINOIS

REVISIONS	DATE
FINAL	6-20-03

G-2

FOR SEWER INVERT DEPTHS TO 12 FEET



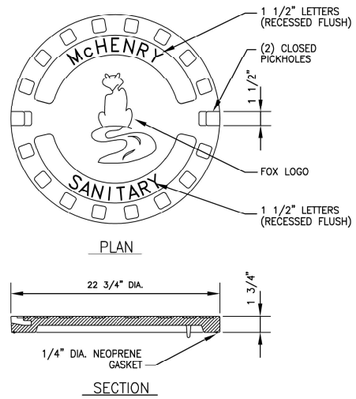
FOR SEWER INVERT DEPTHS OVER 12 FEET

NOTE: IT IS RECOMMENDED THAT THE USER OF THIS DETAIL REFER TO THE CITY OF McHENRY SUBDIVISION CONTROL ORDINANCE FOR MORE DETAILED AND MORE SPECIFIC REQUIREMENTS.

BUILDING SERVICE RISER	CITY OF McHENRY, ILLINOIS

REVISIONS	DATE
FINAL	6-20-03

G-3



SANITARY MANHOLE COVER DETAIL	CITY OF McHENRY, ILLINOIS

REVISIONS	DATE
FINAL	6-20-03

E-1

NOTE:

1. PAVEMENT MATERIALS SHALL BE PER MATERIALS AND DIMENSIONS SHOWN IN PROPOSED ROADWAY TYPICAL SECTIONS, SHEETS 37 TO 40.

* FULL DEPTH SAWCUT PRIOR TO EXCAVATION. FULL DEPTH SAWCUT REQUIRED AGAIN PRIOR TO RESTORATION AT THE DIRECTION OF THE CITY REPRESENTATIVE.

EXISTING PAVEMENT TYPICAL TRENCH DETAIL AGGREGATE BASE	CITY OF McHENRY, ILLINOIS

REVISIONS	DATE
FINAL	6-20-03
UPDATE	8-27-07

E-2

NOTE:

1. PAVEMENT MATERIALS SHALL BE PER MATERIALS AND DIMENSIONS SHOWN IN PROPOSED ROADWAY TYPICAL SECTIONS, SHEETS 37 TO 40.

* FULL DEPTH SAWCUT PRIOR TO EXCAVATION. FULL DEPTH SAWCUT REQUIRED AGAIN PRIOR TO RESTORATION AT THE DIRECTION OF THE CITY REPRESENTATIVE.

EXISTING PAVEMENT TYPICAL TRENCH DETAIL BITUMINOUS BASE	CITY OF McHENRY, ILLINOIS

REVISIONS	DATE
FINAL	6-20-03
UPDATE	8-27-07

MODEL: Default
FILE NAME: pw:\\patrick-ecm.bentley.com:patrick-ecm-pw-07\Documents\IDOT\22177.01\92_Design\12_CADD\SHEETS\MUNICIPAL\C2-SHT-SANITARY-DETAILS-MCHENRY

PATRICK a WSP company

USER NAME = LG028	DESIGNED - SA	REVISED -
	DRAWN - LG	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -
PLOT DATE = 3/6/2026	DATE - 03/06/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SANITARY SEWER STANDARD DETAILS
CITY OF McHENRY

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	275
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

PROPOSED WATER MAINS

ALIGN	PIPE ID	FROM	TO	LENGTH (FT)	DIA. (IN)	TYPE	TRENCH BACKFILL (CU YD)	SIZE OF WATERMAIN CONNECTING TO (INCHES)
IL 31	WM-14	401+60.67	401+60.98	20	10	PVC	5.5	10
IL 31	WM-15	401+93.72	402+11.69	29	12	PVC	3.8	12
IL 31	WM-16	VV-14	VV-15	486	12	PVC	15.5	12
IL 31	WM-17	VV-16	410+46.65	13	12	PVC	3.9	12
IL 31	WM-18	VV-15	410+42.32	27	12	PVC	8.0	12
IL 31	WM-19	VV-16	VV-17	427	12	PVC	170.2	12
IL 31	WM-19A	VV-17	VV-18	340	12	PVC	147.1	12
IL 31	WM-20	415+47.04	415+47.83	20	4	PVC	4.3	4
IL 31	WM-21	415+48.81	415+49.09	19	4	PVC	4.1	12
				16	4	DIP	3.4	
IL 31	WM-22	418+08.56	418+09.49	19	12	PVC	5.6	12
				16	12	DIP	4.7	
IL 31	WM-22A	VV-18	VV-19	661	12	PVC	70.7	12
				23	12	DIP	0.0	
IL 31	WM-23	VV-19	VV-20	137	12	PVC	74.1	12
IL 31	WM-24	VV-20	VV-21	422	12	PVC	5.4	12
IL 31	WM-25	VV-21	VV-22	163	12	PVC	35.0	12
IL 31	WM-25A	VV-22	429+59.92	10	4	PVC	3.2	12
IL 31	WM-26	VV-22	VV-23	301	12	PVC	16.1	12
IL 31	WM-27	432+98.12	432+98.61	16	6	PVC	5.4	12
IL 31	WM-27A	433+06.49	VV-24	12	4	PVC	3.8	10
IL 31	WM-28	VV-23	VV-25	387	10	PVC	44.9	12
IL 31	WM-29	VV-25	436+89.09	30	6	PVC	18.2	10
IL 31	WM-29A	VV-25	VV-26	359	10	PVC	118.2	10
IL 31	WM-29B	436+89.22	436+89.32	20	6	DIP	4.7	6
IL 31	WM-30	439+69.95	439+69.95	32	6	PVC	12.6	10
IL 31	WM-30A	VV-26	444+78.94	444	10	PVC	130.8	10
IL 31	WM-30B	439+71.59	439+71.59	7	6	PVC	4.1	6
				15	6	DIP	8.9	
IL 31	WM-31	442+78.83	442+78.83	11	6	PVC	2.5	10
IL 31	WM-31A	442+78.03	442+78.47	7	6	PVC	1.4	6
				15	6	DIP	6.1	
LILLIAN	WM-32	198+73.40	198+93.40	20	10	PVC	8.1	10
IL 31	WM-32A	445+93.22	446+09.30	16	10	PVC	6.7	10
IL 31	WM-33	VV-27	VV-28	84	10	PVC	38.9	10
IL 31	WM-33A	VV-28	VV-30	321	10	PVC	114.7	10
IL 31	WM-33B	VV-29	446+92.66	86	8	PVC	49.5	8
				14	8	DIP	8.1	
IL 31	WM-34	VV-30	VV-32	302	10	PVC	15.3	10
IL 31	WM-34A	450+12.63	450+12.79	91	8	PVC	61.0	8
				17	8	DIP	11.4	
IL 31	WM-35	VV-32	453+15.55	11	12	PVC	3.2	10
				10	12	DIP	2.9	
IL 31	WM-35A	VV-32	VV-33	16	10	PVC	10.2	10
IL 31	WM-36	VV-33	VV-34	269	10	PVC	19.4	10
IL 31	WM-36A	VV-34	VV-35	251	10	PVC	108.9	10
IL 31	WM-37	VV-35	458+49.57	12	4	PVC	2.5	10
IL 31	WM-38	458+50.27	458+50.58	14	4	PVC	5.6	4
				15	4	DIP	9.2	
IL 31	WM-38A	VV-35	VV-36	188	10	PVC	23.3	10
IL 31	WM-39	VV-36	460+35.50	26	4	PVC	2.4	10

PROPOSED WATER MAINS CONTINUED

ALIGN	PIPE ID	FROM	TO	LENGTH (FT)	DIA. (IN)	TYPE	TRENCH BACKFILL (CU YD)	SIZE OF WATERMAIN CONNECTING TO (INCHES)
IL 31	WM-40	460+36.89	460+38.89	10	4	PVC	2.2	4
				19	4	DIP	4.1	
IL 31	WM-40A	VV-36	VV-37	141	10	PVC	13.0	10
IL 31	WM-41	461+74.40	461+74.57	19	4	PVC	2.7	10
IL 31	WM-42	461+75.08	461+75.52	9	4	PVC	1.9	4
				19	4	DIP	4.1	
IL 31	WM-42A	VV-37	VV-38	63	10	PVC	0.0	10
IL 31	WM-43	462+34.13	462+36.19	19	4	PVC	2.6	10
IL 31	WM-44	462+36.23	462+35.33	25	4	PVC	5.4	4
				19	4	DIP	4.1	
IL 31	WM-44A	VV-38	VV-39	370	10	PVC	59.4	10
IL 31	WM-45	466+74.97	466+75.03	10	4	PVC	2.2	4
				20	4	DIP	4.3	
IL 31	WM-46	466+79.59	466+79.63	10	4	PVC	2.2	4
				20	4	DIP	4.3	
IL 31	WM-46A	VV-39	VV-40	427	10	PVC	133.0	10
IL 31	WM-46B	466+76.42	466+76.50	15	4	PVC	3.3	10
IL 31	WM-47A	466+81.04	466+81.11	15	4	PVC	3.3	10
IL 31	WM-47	VV-40	VV-43	27	10	PVC	8.2	10
IL 31	WM-48	470+48.88	VV-41	6	6	PVC	1.4	6
IL 31	WM-49	VV-41	VV-42	28	6	PVC	6.6	10
				20	6	DIP	4.7	
IL 31	WM-50	470+50.54	470+50.68 (VV-43)	6	8	PVC	1.5	8
IL 31	WM-51	VV-43	VV-42	23	10	PVC	6.6	10
IL 31	WM-52	VV-42	VV-45	330	10	PVC	164.7	10
IL 31	WM-53	471+28.01	471+28.01	52	1	PVC	9.7	10
IL 31	WM-54	471+45.83	471+45.83	52	1	PVC	9.7	10
IL 31	WM-55	472+63.82	472+63.82	53	1	PVC	9.8	10
IL 31	WM-56	472+96.17	472+96.17	68	1	PVC	12.5	10
IL 31	WM-56A	VV-45	VV-46	328	10	PVC	126.3	10
IL 31	WM-57	477+06.98	477+06.99 (VV-46)	43	6	PVC	10.1	10
IL 120	WM-57A	293+55.34	293+77.29	22	6	DIP	5.8	6
IL 31	WM-58	VV-46	VV-47	29	10	PVC	10.7	10
IL 31	WM-59	VV-46	477+07.93	6	6	PVC	1.4	6
IL 31	WM-59A	VV-47	VV-48	96	10	PVC	43.6	10
FRONT ST	WM-59B	VV-48	VV-49	59	10	PVC	22.4	10
FRONT ST	WM-60	VV-49	480+77.29	186	10	PVC	67.2	10
IL 120	WM-61	302+37.91	305+51.91	53	10	PVC	14.3	10
IL 120	WM-61A	302+91.14	303+03.68	13	10	PVC	4.0	10
IL 120	WM-61B	303+03.68	305+51.91	248	10	PVC	83.0	10
IL 120	WM-62	303+54.81	303+55.54	10	4	PVC	2.2	6
				20	4	DIP	4.3	
IL 120	WM-63	308+41.04	308+63.04	22	10	DIP	4.7	10
IL 120	WM-64	311+57.95	311+81.85	24	10	DIP	15.5	10
							TOTAL= 2351.5	

56100900, TOTAL 12" DIA PVC WATER MAIN, FT= 3036
56100800, TOTAL 10" DIA PVC WATER MAIN, FT= 5070
56100700, TOTAL 8" DIA PVC WATER MAIN, FT= 183
56100600, TOTAL 6" DIA PVC WATER MAIN, FT= 208
56100500, TOTAL 4" DIA PVC WATER MAIN, FT= 255
56200300, TOTAL 1" DIA PVC WATER MAIN, FT= 225

56103300, TOTAL 12" DIA DIP WATER MAIN, FT= 49
56103200, TOTAL 10" DIA DIP WATER MAIN, FT= 46
56103100, TOTAL 8" DIA DIP WATER MAIN, FT= 31
56103000, TOTAL 6" DIA DIP WATER MAIN, FT= 92
56102900, TOTAL 4" DIA DIP WATER MAIN, FT= 148

VALVE VAULTS TO BE ADJUSTED (60265700)

ALIGNMENT	STATION OFFSET	EX RIM EL	PR RIM EL	EACH
IL 31	401+71.58, 41.83' LT	820.16	820.49	1
IL 120	293+43.65, 17.39' LT	765.46	765.56	1
IL 120	294+25.77, 24.08' LT	765.32	765.33	1
IL 120	294+47.40, 13.96' LT	764.69	764.64	1
IL 120	299+16.02, 56.76' RT	757.60	758.44	1
IL 120	306+12.83, 29.35' LT	754.30	755.00	1
IL 120	309+91.19, 32.26' LT	753.45	754.01	1
IL 120	309+90.66, 63.94' LT	752.32	752.88	1
IL 120	310+65.77, 32.37' LT	753.63	754.09	1
IL 120	311+98.46, 31.33' LT	755.07	755.08	1
FRONT ST	478+46.39, 10.84' RT	755.33	755.50	1
			TOTAL	11

VALVE VAULTS TO BE REMOVED (X6026622)

ALIGNMENT	STATION OFFSET	EACH
IL 31	410+47.13, 32.79' LT	1
IL 31	410+47.17, 44.23' LT	1
IL 31	418+01.74, 34.01' LT	1
IL 31	429+54.08, 45.20' LT	1
IL 31	429+58.97, 46.02' LT	1
IL 31	441+49.96, 33.34' LT	1
IL 31	453+31.75, 41.04' LT	1
IL 31	465+51.86, 31.70' LT	1
IL 31	469+97.87, 34.99' LT	1
IL 31	470+50.50, 17.51' LT	1
IL 31	473+70.31, 19.96' LT	1
IL 31	473+78.46, 17.32' LT	1
IL 31	473+78.27, 23.69' LT	1
IL 31	477+07.70, 24.65' LT	1
IL 31	477+37.14, 22.21' LT	1
IL 120	302+91.06, 35.58' LT	1
IL 120	303+03.45, 35.89' LT	1
FRONT ST	478+19.73, 15.01' LT	1
FRONT ST	478+91.67, 14.48' LT	1
	TOTAL	19

PROPOSED WATER MAIN VALVE VAULTS (60248900)

ALIGN	STR ID	STA.	OFFSET (FT)	SIDE	RIM EL	TOP OF PIPE EL	VALVE DIAMETER (IN)	COVER (FT)
IL 31	VV-14	405+68.00	62.00	LT	806.00	798.55	12	7.45
IL 31	VV-15	410+42.28	41.10	LT	782.78	775.67	12	7.11
IL 31	VV-16	410+47.17	44.23	LT	782.49	776.56	12	5.93
IL 31	VV-17	414+69.24	40.69	LT	770.31	763.71	12	6.60
IL 31	VV-18	418+09.63	40.58	LT	767.20	758.95	12	8.25
IL 31	VV-19	424+66.60	33.58	LT	766.89	755.81	12	11.08
IL 31	VV-20	425+14.99	69.00	RT	770.27	755.81	12	14.46
IL 31	VV-21	429+30.72	52.73	RT	765.66	759.11	12	6.55
IL 31	VV-22	429+59.63	49.00	LT	765.88	757.21	4	8.67
IL 31	VV-52	430+00.85	49.00	LT	767.65	759.99	12	7.66
IL 31	VV-23	433+01.74	43.89	LT	766.56	761.17	10	5.39
IL 31	VV-24	433+06.33	56.02	LT	766.55	761.17	4	5.38
IL 31	VV-25	436+89.09	38.50	LT	763.08	756.79	6	6.29
IL 31	VV-26	440+48.52	40.08	LT	758.65	751.89	10	6.76
IL 31	VV-27	446+09.24	41.17	LT	755.44	747.89	10	7.55
IL 31	VV-28	446+93.03	41.00	LT	755.27	747.89	10	7.38
IL 31	VV-29	447+06.34	40.94	LT	755.72	747.89	8	7.83
IL 31	VV-30	450+13.23	52.85	LT	755.46	747.49	8	7.97
IL 31	VV-31	450+25.67	53.67	LT	755.67	747.49	10	8.18
IL 31	VV-32	453+15.46	54.09	LT	755.10	746.42	12	8.68
IL 31	VV-33	453+31.58	54.16	LT	754.97	746.42	10	8.55
IL 31	VV-34	456+00.32	55.00	LT	755.21	748.67	10	6.54
IL 31	VV-35	458+49.57	40.00	LT	756.16	748.67	4	7.49
IL 31	VV-36	460+35.04	50.26	LT	755.72	748.67	4	7.05
IL 31	VV-37	461+74.40	49.93	LT	755.82	748.67	4	7.15
IL 31	VV-38	462+36.19	50.20	LT	755.19	748.67	4	6.52
IL 31	VV-39	466+00.48	42.69	LT	755.35	749.32	10	6.03
IL 31	VV-40	470+23.50	34.74	LT	756.96	750.36	10	6.60
IL 31	VV-41	470+48.63	36.34	RT	756.25	750.81	6	5.44
IL 31	VV-42	470+50.07	6.63	LT	756.85	750.83	10	6.02
IL 31	VV-43	470+50.54	34.73	LT	756.57	750.84	10	5.73
IL 31	VV-53	473+60.00	12.08	RT	762.32	755.70	10	6.62
IL 31	VV-44	473+79.69	20.78	LT	761.92	755.73	8	6.19
IL 31	VV-45	473+79.80	12.13	LT	762.55	755.70	10	6.85
IL 31	VV-46	477+07.49	12.83	LT	757.94	750.66	6	7.28
IL 31	VV-47	477+36.63	12.89	LT	757.72	749.52	10	8.2
FRONT ST	VV-48	478+32.85	13.07	LT	755.30	748.70	10	6.60
FRONT ST	VV-49	478+91.66	13.00	LT	754.09	746.16	6	7.93
IL 120	VV-50	302+91.14	29.70	LT	755.06	748.95	10	6.11
IL 120	VV-51	303+03.68	29.73	LT	754.95	748.76	10	6.19

TOTAL 12" DIA VALVES= 10
TOTAL 10" DIA VALVES= 17
TOTAL 8" DIA VALVES= 3
TOTAL 6" DIA VALVES= 4
TOTAL 4" DIA VALVES= 6
TOTAL VAULT MANHOLES= 40

WATER MAINS TO BE REMOVED (XX000052)

ALIGN	FROM STA.	TO STA.	LENGTH (FT)	PIPE SIZE (IN)	MATERIAL
IL 31	445+93.22	455+59.96	967	10	DIP
IL 31	470+47.51	473+80.26	356	6	CIP
		TOTAL	1323		

WATER MAINS TO BE ABANDONED (X5610651)

ALIGN	FROM STA.	TO STA.	LENGTH (FT)	PIPE SIZE (IN)	MATERIAL
IL 31	405+65.85	429+59.38	2414	12	DIP
IL 31	410+42.27	410+42.86	27	12	DIP
IL 31	410+46.65	410+65.63	13	12	DIP
IL 31	418+08.56	418+09.60	34	12	DIP
IL 31	429+59.38	444+78.94	1521	10	DIP
IL 31	432+93.12	432+98.12	104	6	DIP
IL 31	436+46.40	436+46.73	10	4	DIP
IL 31	439+69.95	439+70.60	31	6	DIP
IL 31	439+71.59	439+71.60	22	6	DIP
IL 31	441+91.16	441+91.83	8	4	DIP
IL 31	442+78.83	442+78.83	11	6	DIP
IL 31	442+78.02	442+72.46	22	6	DIP
IL 31	446+93.08	447+06.34	97	4	DIP
IL 31	450+13.20	450+12.43	108	4	CIP
IL 31	450+25.67	450+25.75	17	8	DIP
IL 31	453+31.58	453+31.63	21	12	DIP
IL 31	455+59.96	470+48.74	1498	10	DIP
IL 31	455+68.08	455+68.17	25	1	DIP
IL 31	456+93.26	456+93.63	9	1	DIP
IL 31	458+50.58	458+51.08	29	4	DIP
IL 31	460+35.60	460+35.36	26	4	DIP
IL 31	460+36.88	460+38.41	29	4	DIP
IL 31	461+75.39	461+75.18	19	4	DIP
IL 31	461+75.06	461+74.94	28	4	DIP
IL 31	462+36.67	462+34.57	19	4	DIP
IL 31	462+35.30	462+35.41	44	4	DIP
IL 31	466+57.96	466+57.98	12	1	DIP
IL 31	466+77.25	466+76.84	15	4	DIP
IL 31	466+75.18	466+72.77	30	4	DIP
IL 31	466+81.89	466+81.49	15	4	DIP
IL 31	466+80.49	466+78.09	30	4	DIP
IL 31	468+02.32	468+02.38	14	1	DIP
IL 31	468+75.10	468+75.43	15	1	DIP
IL 31	470+48.74	480+74.12	1021	10	DIP
IL 120	302+37.91	305+51.91	317	10	DIP
IL 120	310+65.57	310+65.87	22	6	DIP
		TOTAL	7677		

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PATRICK a STV company	USER NAME = LG028	DESIGNED - EK	REVISED -	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
		DRAWN - LG	REVISED -	
	PLOT SCALE = 20.0000 ' / in.	CHECKED - SA	REVISED -	
	PLOT DATE = 4/29/2026	DATE - 04/23/2026	REVISED -	

SCHEDULE OF QUANTITIES
WATER MAIN – CITY OF MCHENRY

SCALE: 1" = 20' | SHEET 2 OF 3 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	277
		CONTRACT NO. 62U72		
	ILLINOIS	FED. AID PROJECT		

WATER MAIN CROSSINGS

Crossing ID	Alignment	Station	Offset	LT/RT	Surface Elevation	TOP PIPE							BOTTOM PIPE					Vertical Clearance (ft)
						Pipe Type	EX/PR	DIA (inches)	Material	Invert	Pipe Thickness (inches)	Bottom of Pipe Elevation	Pipe Type	EX/PR	DIA (inches)	Material	Top of pipe	
C40	IL 31	401+60.83	49	RT	820.14	STORM	PR	12	WMQ	816.25	2.0	816.08	**WATER**	PR	10	PVC	814.87	1.21
C42	IL 31	402+00.00	44	LT	819.84	STORM	PR	12	WMQ	815.18	2.0	815.01	**WATER**	PR	12	PVC	808.07	6.94
C43	IL 31	402+05.57	51	LT	819.17	STORM	PR	24	WMQ	809.99	2.0	809.82	**WATER**	PR	12	PVC	808.07	1.75
C44	IL 31	403+52.94	50	LT	814.45	**WATER**	PR	6	DIP	811.11	0.3	811.09	STORM	PR	24	RCP	807.34	3.75
C46	IL 31	407+45.35	49	LT	797.66	STORM	PR	24	WMQ	784.82	3.0	784.57	**WATER**	PR	6	DIP	783.07	1.50
C47	IL 31	410+42.20	24	LT	782.75	**WATER**	PR	12	PVC	774.64	0.5	774.60	STORM	PR	24	RCP	772.72	1.88
C50	IL 31	415+49.13	19	LT	768.94	STORM	PR	4'X3'BOX	WMQ	761.71	6.0	761.21	**WATER**	PR	4	PVC	759.32	1.89
C51	IL 31	415+47.42	43	RT	768.85	**WATER**	PR	4	PVC	761.60	0.2	761.59	STORM	PR	15	RCP	756.15	5.44
C53	IL 31	418+07.37	19	LT	767.17	STORM	PR	4'X3'BOX	WMQ	760.41	6.0	759.91	**WATER**	PR	12	PVC	758.32	1.59
C55	IL 31	421+50.01	49	LT	765.81	STORM	PR	4'X3'BOX	WMQ	758.66	6.0	758.16	**WATER**	PR	6	PVC	755.33	2.83
C56	IL 31	423+00.97	70	LT	761.90	STORM	PR	4'X3'BOX	WMQ	757.59	6.0	757.09	**WATER**	PR	12	PVC	755.85	1.24
C57	IL 31	423+46.24	70	LT	762.28	STORM	PR	24	WMQ	761.69	3.0	761.44	**WATER**	PR	12	PVC	755.85	5.59
C58	IL 31	424+87.33	62	RT	768.76	STORM	PR	24	WMQ	763.06	3.0	762.81	**WATER**	PR	12	PVC	755.85	6.96
C66	IL 31	429+60.13	39	LT	765.24	STORM	PR	48	WMQ	755.89	5.0	755.47	**WATER**	PR	12	PVC	753.97	1.50
C67	IL 31	428+93.85	61	RT	767.40	STORM	PR	24	WMQ	759.49	3.0	759.24	**WATER**	PR	6	DIP	757.74	1.50
C68	IL 31	427+95.01	53	RT	765.30	STORM	PR	12	WMQ	760.82	2.0	760.65	**WATER**	PR	12	PVC	759.15	1.50
C74	IL 31	428+70.00	53	RT	765.00	STORM	PR	12	WMQ	761.08	2.0	760.91	**WATER**	PR	12	PVC	759.15	1.76
C78	IL 31	429+04.97	53	RT	764.97	STORM	PR	12	WMQ	761.29	2.0	761.12	**WATER**	PR	12	PVC	759.15	1.97
C80	IL 31	440+89.94	40	LT	758.44	STORM	PR	12	WMQ	754.31	2.0	754.14	**WATER**	PR	10	PVC	751.36	2.79
C80A	IL 31	439+69.98	43	RT	759.03	STORM	PR	3'X3' BOX	WMQ	751.76	6.0	751.26	**WATER**	PR	6	DIP	749.76	1.50
C81	IL 31	441+99.80	40	LT	757.87	STORM	PR	12	WMQ	754.07	2.0	753.90	**WATER**	PR	10	PVC	751.12	2.78
C85A	IL 31	442+77.11	61	RT	753.48	STORM	PR	15	WMQ	752.42	2.3	752.23	**WATER**	EX	6	DIP	748.93	3.31
C85B	IL 31	442+76.48	43	RT	757.41	STORM	PR	3'X3' BOX	WMQ	751.16	6.0	750.66	**WATER**	PR	6	DIP	749.16	1.50
C93A	IL 31	446+96.88	17	RT	755.77	STORM	PR	42	WMQ	747.76	6.0	747.26	**WATER**	PR	8	PVC	745.76	1.50
C94	IL 31	447+05.49	35	LT	755.42	STORM	PR	5'X3'BOX	WMQ	750.70	6.0	750.20	**WATER**	PR	8	PVC	747.86	2.34
C96A	IL 31	449+44.70	48	LT	754.39	STORM	PR	15	WMQ	751.17	2.3	750.98	**WATER**	PR	10	PVC	747.53	3.46
C99A	IL 31	450+11.13	17	RT	756.72	STORM	PR	48	WMQ	747.45	5.0	747.03	**WATER**	PR	8	PVC	745.53	1.50
C100	IL 31	450+13.09	35	LT	755.89	STORM	PR	5'X3'BOX	WMQ	751.31	6.0	750.81	**WATER**	PR	8	PVC	747.35	3.46
C106	IL 31	453+07.27	54	LT	754.91	STORM	PR	12	WMQ	749.58	2.0	749.41	**WATER**	PR	10	PVC	746.45	2.96
C110A	IL 31	456+72.71	41	LT	755.83	STORM	PR	12	WMQ	748.16	2.0	747.99	**WATER**	PR	10	PVC	745.14	2.86
C113	IL 31	456+82.37	40	LT	756.05	STORM	PR	12	WMQ	748.60	2.0	748.43	**WATER**	PR	10	PVC	745.13	3.30
C117	IL 31	457+98.48	40	LT	756.27	STORM	PR	12	WMQ	748.48	2.0	748.31	**WATER**	PR	10	PVC	745.01	3.30
C118	IL 31	458+51.04	15	RT	756.26	STORM	PR	7'X4'BOX	WMQ	746.67	6.0	746.17	**WATER**	PR	4	PVC	744.42	1.75
C121	IL 31	458+89.69	40	LT	756.02	STORM	PR	12	WMQ	751.68	2.0	751.51	**WATER**	PR	10	PVC	748.70	2.81
C122	IL 31	460+37.83	15	RT	755.83	STORM	PR	7'X4'BOX	WMQ	746.63	6.0	746.13	**WATER**	PR	4	PVC	744.23	1.90
C122B	IL 31	461+73.72	17	RT	755.39	STORM	PR	7'X4'BOX	WMQ	746.31	6.0	745.81	**WATER**	PR	4	PVC	744.17	1.64
C126	IL 31	462+35.76	16	RT	755.20	STORM	PR	7'X4'BOX	WMQ	746.53	6.0	746.03	**WATER**	PR	4	PVC	744.13	1.90
C126A	IL 31	462+34.53	35	RT	754.89	STORM	PR	12	WMQ	750.30	2.0	750.13	**WATER**	EX	4	DIP	744.14	6.00
C127	IL 31	462+34.54	32	LT	754.55	**WATER**	PR	4	PVC	750.25	0.2	750.24	STORM	PR	12	RCP	748.95	1.29
C130	IL 31	464+60.54	46	LT	754.57	STORM	PR	12	WMQ	751.43	2.0	751.26	**WATER**	PR	10	PVC	748.00	3.26
C132	IL 31	466+74.29	14	RT	755.57	STORM	PR	8'X5'BOX	WMQ	746.12	6.0	745.62	**WATER**	PR	4	PVC	743.72	1.90
C133	IL 31	466+79.66	14	RT	755.59	STORM	PR	8'X5'BOX	WMQ	746.12	6.0	745.62	**WATER**	PR	4	PVC	743.72	1.90
C142A	IL 31	469+19.00	35	LT	756.41	STORM	PR	12	WMQ	750.12	2.0	749.95	**WATER**	PR	10	PVC	746.79	3.17
C143	IL 31	470+49.40	14	RT	756.70	STORM	PR	8'X5'BOX	WMQ	745.43	6.0	744.93	**WATER**	PR	6	PVC	743.43	1.50
C144A	IL 31	470+78.76	7	LT	756.94	STORM	PR	12	WMQ	749.04	2.0	748.87	**WATER**	PR	10	PVC	745.48	3.39
C147	IL 31	471+28.01	14	RT	757.12	**WATER**	PR	1	PVC	751.35	0.1	751.34	STORM	PR	8'X5'BOX	RCP	750.85	0.49
C148	IL 31	471+45.83	13	RT	757.34	**WATER**	PR	1	PVC	751.33	0.1	751.32	STORM	PR	8'X5'BOX	RCP	750.84	0.48
C151A	IL 31	471+01.00	7	LT	757.05	STORM	PR	12	WMQ	748.91	2.0	748.74	**WATER**	PR	10	PVC	745.48	3.26
C151B	IL 31	471+60.00	7	LT	757.66	STORM	PR	12	WMQ	748.74	2.0	748.57	**WATER**	PR	10	PVC	745.48	3.09
C151C	IL 31	472+46.63	12	LT	759.33	STORM	PR	12	WMQ	749.04	2.0	748.87	**WATER**	PR	10	PVC	745.48	3.39
C153	IL 31	472+96.21	14	RT	760.70	**WATER**	PR	1	PVC	753.32	0.1	753.31	STORM	PR	8'X5'BOX	RCP	750.68	2.63
C153A	IL 31	472+62.45	13	RT	759.74	**WATER**	PR	1	PVC	751.22	0.1	751.21	STORM	PR	8'X5'BOX	RCP	750.72	0.49
C154	IL 31	473+30.00	12	LT	761.73	**WATER**	PR	10	PVC	754.28	0.4	754.25	STORM	PR	12	RCP	750.57	3.68
C157A	IL 31	474+10.69	12	LT	762.65	**WATER**	PR	10	PVC	754.87	0.4	754.84	STORM	PR	12	RCP	750.83	4.01
C157B	IL 31	473+83.35	12	LT	762.59	**WATER**	PR	10	PVC	754.86	0.4	754.83	STORM	PR	12	RCP	750.39	4.44
C159	IL 31	475+29.00	0	LT	761.92	**WATER**	PR	10	PVC	754.29	0.4	754.25	STORM	PR	12	RCP	749.73	4.53
C162	IL 120	298+83.27	39	RT	758.47	STORM	PR	12	WMQ	753.89	2.0	753.72	WATER	EX	6	CIP	751.46	2.27
C164	IL 120	297+00.41	12	LT	761.54	STORM	PR	12	WMQ	757.89	2.0	757.72	**WATER**	EX	6	CIP	755.77	1.95
C166	IL 120	295+89.84	14	LT	763.86	**WATER**	EX	6	CIP	757.11	1.5	756.99	STORM	PR	12	RCP	755.86	1.13
C167	IL 120	293+66.32	15	LT	765.03	STORM	PR	12	WMQ	760.31	2.0	760.14	**WATER**	PR	6	DIP	758.64	1.50
C171	FRONT ST	479+67.00	7	LT	751.19	STORM	PR	12	WMQ	746.79	2.0	746.62	**WATER**	PR	10	PVC	743.13	3.49
C172	FRONT ST	480+55.96	7	LT	747.87	STORM	PR	12	WMQ	743.41	2.0	743.24	**WATER**	PR	10	PVC	739.77	3.47
C175	IL 31	477+07.26	14	RT	757.86	**WATER**	PR	6	PVC	752.69	0.2	752.67	STORM	PR	8'X5'BOX	RCP	750.47	2.20
C175A	IL 31	476+43.67	13	LT	759.55	**WATER**	PR	10	PVC	751.93	0.4	751.89	STORM	PR	12	RCP	749.63	2.27
C176A	IL 120	301+80.04	30	LT	754.81	STORM	PR	12	WMQ	750.76	2.0	750.59	**WATER**	EX	10	DIP	749.55	1.04
C176B	IL 120	302+32.08	30	LT	754.25	**WATER**	EX	10	DIP	748.79	0.4	748.75	STORM	PR	12	RCP	746.78	1.98
C178	IL 120	303+55.22	18	RT	755.45	STORM	PR	8'X6'BOX	WMQ	744.50	6.0	744.00	**WATER**	PR	4	PVC	741.57	2.43
C179	IL 120	303+62.03	29	LT	754.84	STORM	PR	12	WMQ	750.19	2.0	750.02	**WATER**	PR	10	PVC	747.94	2.08
C180	IL 120	303+91.16	29	LT	755.36	STORM	PR	12	WMQ	748.99	2.0	748.82	**WATER**	PR	10	PVC	747.70	1.12
C181	IL 120	304+70.30	28	LT	755.54	STORM	PR	12	WMQ	750.21	2.0	750.04	**WATER**	PR	10	PVC	747.70	2.34
C182	IL 120	305+37.42	34	LT	755.30	STORM	PR	12	WMQ	751.13	2.0	750.96	**WATER**	PR	6	DIP	748.43	2.53
C183	IL 120	305+66.07	28	LT	755.33	STORM	PR	12	WMQ	750.63	2.0	750.46	**WATER**	EX	10	DIP	749.04	1.42
C184	IL 120	306+50.04	27	LT	755.08	STORM	PR	12	WMQ	750.57	2.0	750.40	**WATER**	EX	10	DIP	749.18	1.22
C185	IL 120	307+30.23	27	LT	754.63	STORM	PR	12	WMQ	750.57	2.0	750.40	**WATER**	EX	10	DIP	749.12	1.29
C186	IL 120	308+52.10	28	LT	754.45	STORM	PR	12	WMQ	750.86	2.0	750.69	**WATER**	EX	10	DIP	749.19	1.50
C187	IL 120	309+32.62	30	LT	754.20	STORM	PR	12	WMQ	750.25	2.0	750.08	**WATER**	EX	10	DIP	748.44	1.64
C188	IL 120	310+51.15	40	LT	753.81	STORM	PR	12	WMQ	749.40	2.0	749.23	**WATER**	EX	6	DIP	747.72	1.51
C190	IL 120	311+70.62	32	LT	754.84	STORM	PR	12	RCP	746.20	2.0	746.03	**WATER**	PR	10	DIP	744.53	1.50

WMQ - WATER MAIN QUALITY
CIPP - CURED IN PLACE PIPE (LINING)
DIP - DUCTILE IRON PIPE
PVC - POLYVINYL CHLORIDE
RCP - REINFORCED CONCRETE PIPE
PCCP - PRESTRESSED CONCRETE CYLINDER PIPE

PROPOSED FIRE HYDRANTS (56400825)

ALIGNMENT	ID	FIRE HYDRANT STATION OFFSET	PR SURFACE EL	EACH	6" DIP LEAD LENGTH (FT)	LEAD TAP STA. OFFSET
IL 31	FH-31	400+01.38, 50.16' LT	823.24	1	21	400+01.38, 29.27'LT
IL 31	FH-32	403+52.78, 37.80' LT	815.73	1	27	403+52.78, 64.86' LT
IL 31	FH-33	407+45.35, 36.95' LT	797.68	1	32	407+45.35, 69.07'LT
IL 31	FH-34	411+60.22, 49.98' LT	778.06	1	9	411+60.22, 40.90' LT
IL 31	FH-35	414+08.71, 36.13' LT	770.48	1	5	414+08.71, 40.58' LT
IL 31	FH-36	418+15.68, 46.62' LT	766.84	1	6	418+15.68, 40.58' LT
IL 31	FH-37	421+50.00, 37.60' LT	764.74	1	32	421+50.00, 70.00'LT
IL 31	FH-38	425+31.69, 37.53' RT	767.12	1	43	425+31.69, 80.00 RT
IL 31	FH-39	428+93.74, 48.79' RT	766.64	1	17	428+93.74, 65.74' RT
HIGH ST	FH-40	432+90.47, 69.59' RT	766.84	1	8	432+98.42, 69.59' RT
IL 31	FH-41	435+26.91, 47.96' LT	764.98	1	8	435+26.91, 40.26' LT
IL 31	FH-42	439+64.49, 37.80' RT	759.75	1	7	439+71.60, 37.83' RT
IL 31	FH-43	442+80.59, 49.15' LT	754.61	1	9	442+80.59, 40.08 LT
IL 31	FH-44	446+36.99, 50.22' LT	756.06	1	9	446+36.99, 41.10' LT
IL 31	FH-45	450+48.31, 53.70' LT	757.16	1	11	450+48.31, 42.75'LT
IL 31	FH-46	453+98.31, 41.04' LT	756.36	1	13	453+98.31, 54.43' LT
IL 31	FH-47	457+48.35, 47.85' LT	756.77	1	8	457+48.35, 40.04' LT
IL 31	FH-48	460+97.78,42.02' LT	755.95	1	8	460+97.78, 50.04' LT
IL 31	FH-49	465+24.76, 32.74' LT	755.23	1	13	465+24.76, 46.14' LT
IL 31	FH-50	469+75.78, 38.74' LT	756.76	1	4	469+75.78, 34.51' LT
IL 31	FH-51	472+70.92, 35.50' LT	760.20	1	23	472+70.92, 12.05' LT
IL 31	FH-52	476+30.00, 45.14' LT	758.71	1	33	476+30.00, 20.12' LT
FRONT ST	FH-53	479+76.03, 23.02' LT	750.82	1	16	479+76.03, 6.69' LT
IL 120	FH-54	293+55.39, 47.40' LT	765.05	1	32	293+54.57, 15.52' LT
IL 120	FH-55	305+37.58, 48.11' LT	755.74	1	20	305+37.58, 28.06' LT
IL 120	FH-56	310+51.44, 51.05' LT	754.57	1	20	310+51.44, 31.00' LT
IL 120	FH-57	302+98.00, 47.90' LT	755.16	1	18	302+98.00, 30.00' LT
			TOTAL	27	452	

FIRE HYDRANTS TO BE REMOVED (56400500)

ALIGNMENT	STATION OFFSET	EACH
IL 31	400+01.50, 45.42' LT	1
IL 31	407+27.75, 45.67' LT	1
IL 31	411+55.35, 45.36' LT	1
IL 31	414+13.40, 39.31' LT	1
IL 31	417+68.13, 38.95' LT	1
IL 31	421+51.47, 37.04' LT	1
IL 31	428+75.83, 38.94' LT	1
IL 31	432+95.73, 50.32' RT	1
IL 31	439+94.58, 38.06' LT	1
IL 31	442+77.88, 36.49' LT	1
IL 31	460+65.47, 29.28' LT	1
IL 31	465+24.63, 26.97' LT	1
IL 31	476+90.02, 68.55' LT	1
IL 120	293+79.91, 41.05' LT	1
IL 120	310+65.21, 54.77' LT	1
	TOTAL	15

VALVE VAULTS TO BE ADJUSTED (60265700)

ALIGNMENT	STATION OFFSET	EX RIM EL	PR RIM EL	EACH
IL 31	401+71.58, 41.83' LT	820.16	820.49	1
IL 120	293+43.65, 17.39' LT	765.46	765.56	1
IL 120	294+25.77, 24.08' LT	765.32	765.33	1
IL 120	294+47.40, 13.96' LT	764.69	764.64	1
IL 120	299+16.02, 56.76' RT	757.60	758.44	1
IL 120	306+12.83, 29.35' LT	754.30	755.00	1
IL 120	309+91.19, 32.26' LT	753.45	754.01	1
IL 120	309+90.66, 63.94' LT	752.32	752.88	1
IL 120	310+65.77, 32.37' LT	753.63	754.09	1
IL 120	311+98.46, 31.33' LT	755.07	755.08	1
FRONT ST	478+46.39, 10.84' RT	755.33	755.50	1
			TOTAL	11

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PATRICK a RIVER company

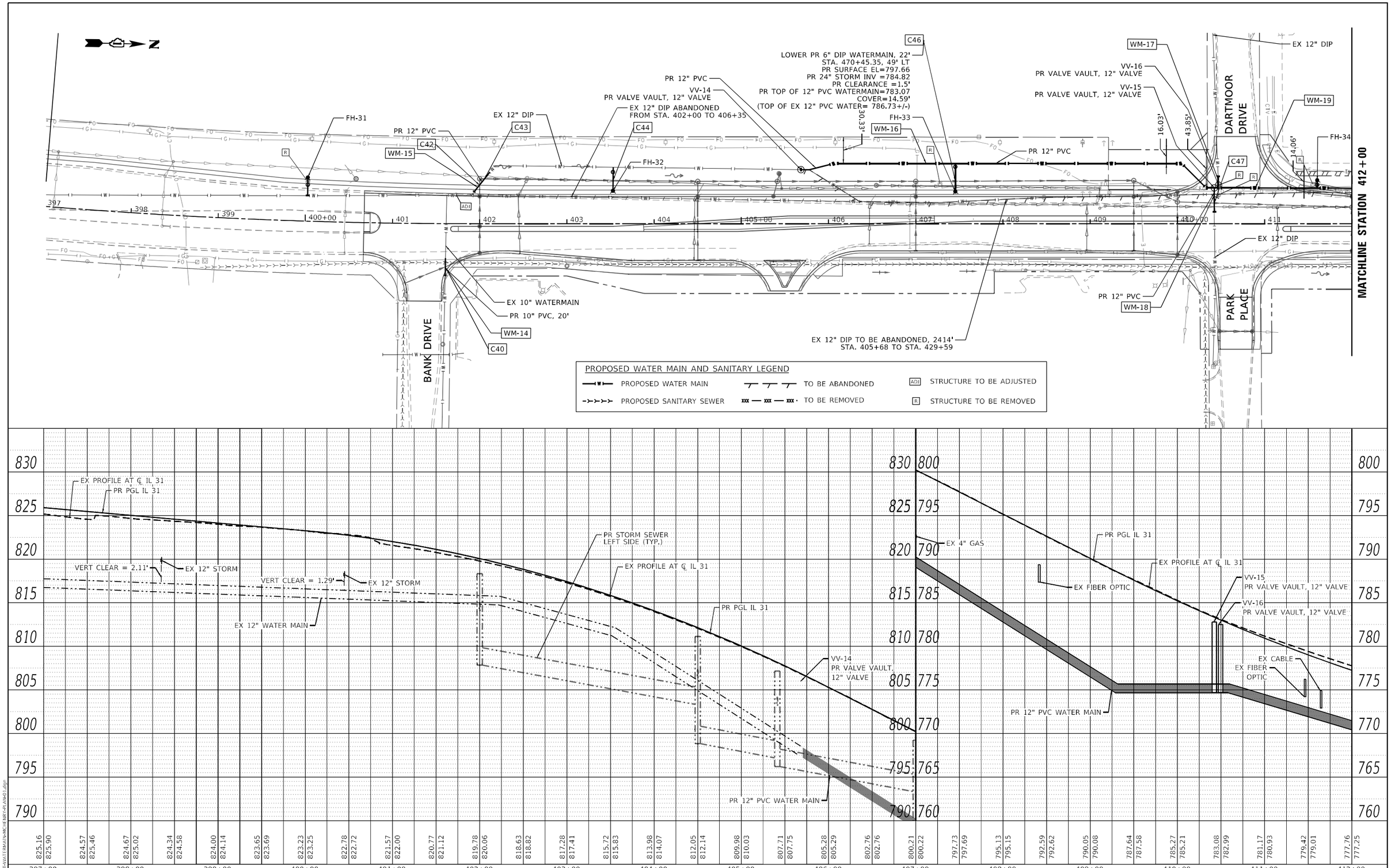
USER NAME = LG028	DESIGNED - EK	REVISED -	
	DRAWN - LG	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - SA	REVISED -	
PLOT DATE = 4/29/2026	DATE - 04/23/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
WATER MAIN – CITY OF MCHENRY

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	278
		CONTRACT NO. 62U72		
		ILLINOIS FED. AID PROJECT		



PLAN
NOTE BOOK NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
NOTE BOOK NO.
SURVEYED
PLOTTED
GRADES CHECKED
B.M. NOTED
STRUCTURE NOTATIONS CHKD
BY
DATE

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PATRICK a RAM company

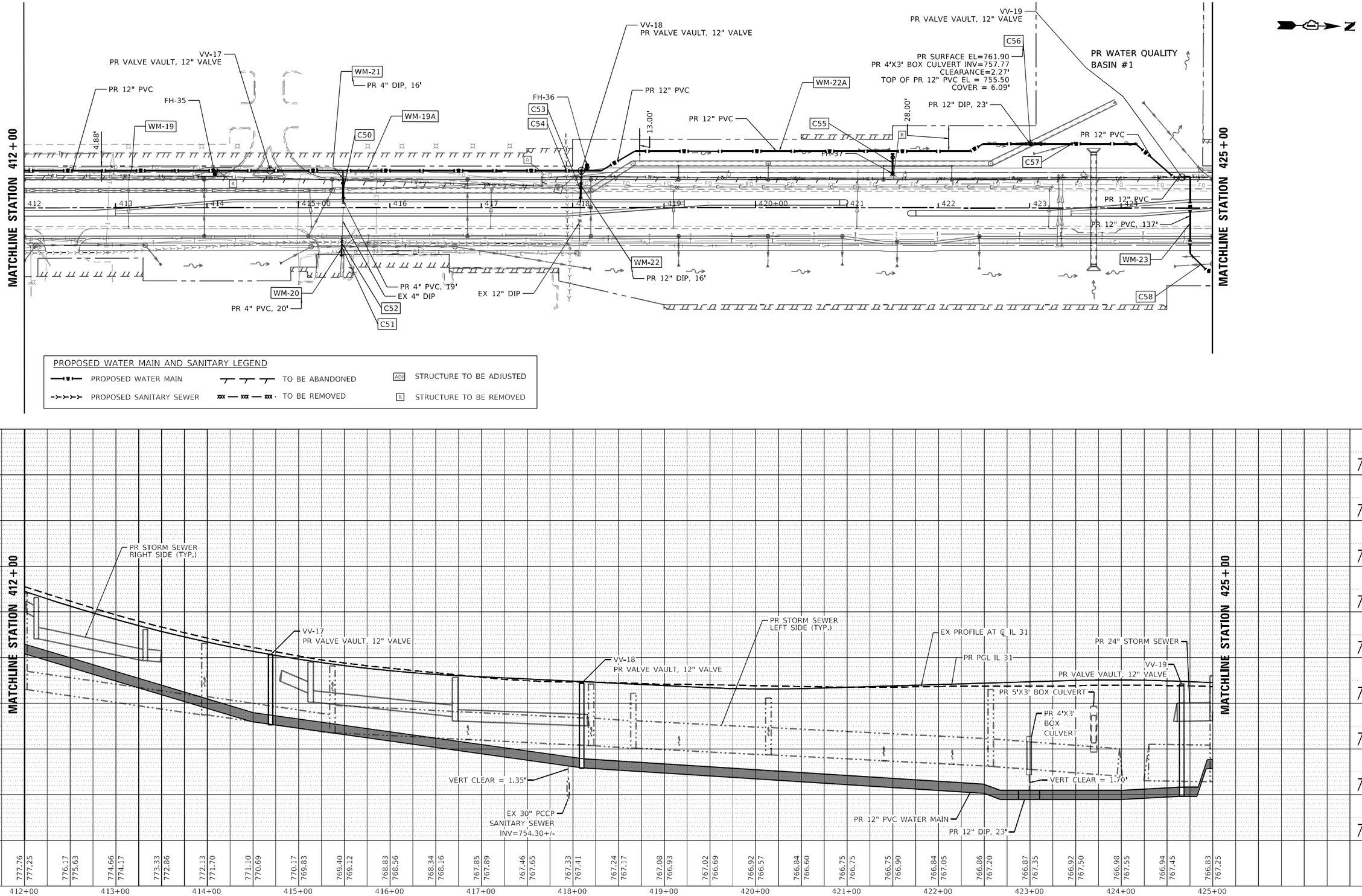
USER NAME = LG028	DESIGNED - SA	REVISED -	
	DRAWN - CRD/LG	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -	
PLOT DATE = 3/5/2026	DATE - 03/06/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF McHENRY – WATER MAIN RELOCATION
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 1 OF 9 SHEETS | STA. 397+00 TO STA. 412+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	279
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	



PLAN
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SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
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SURVEYED
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GRADES CHECKED
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BY
DATE

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PATRICK a RAM company

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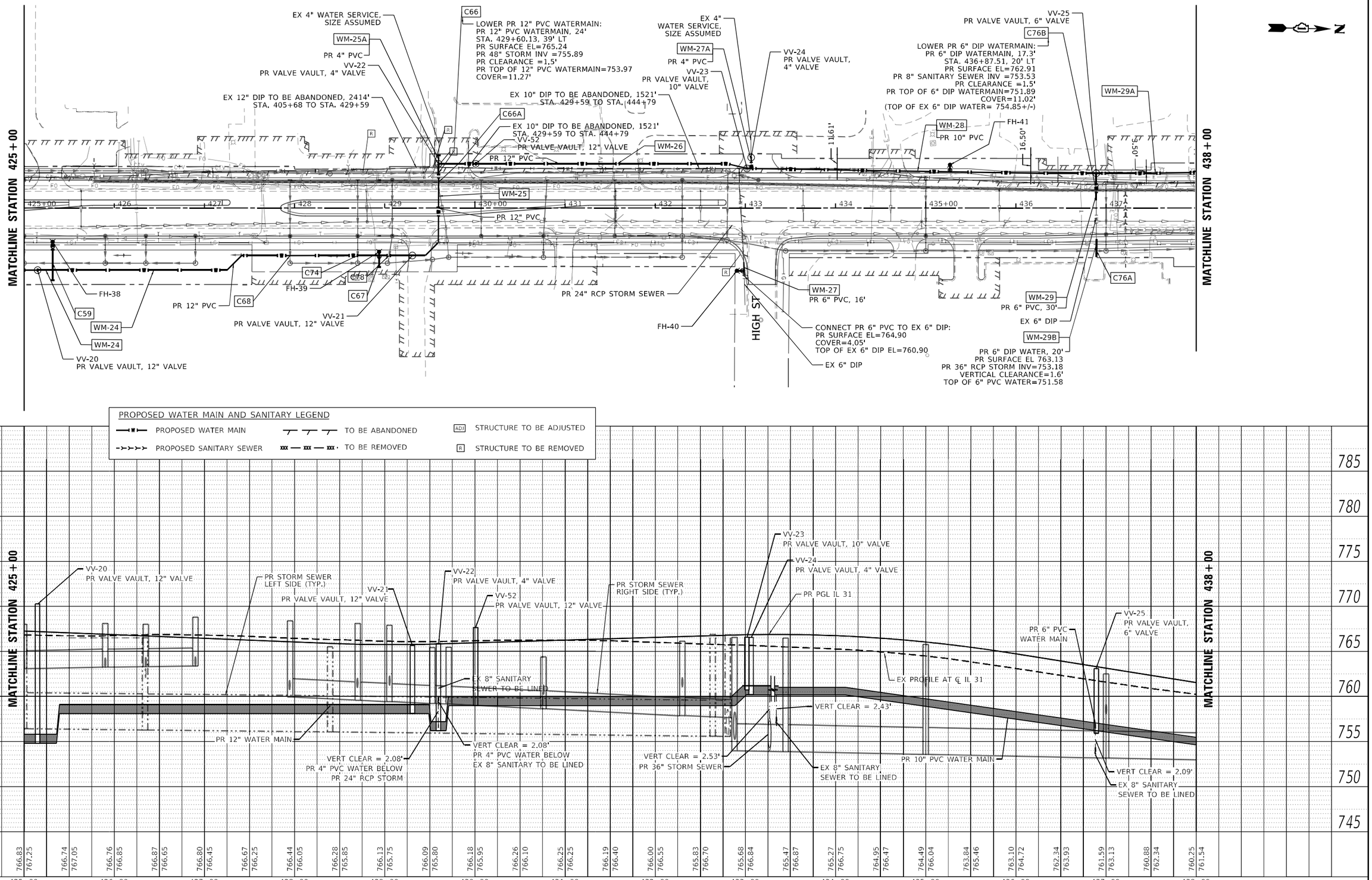
PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -	
PLOT DATE = 4/29/2026	DATE - 04/23/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF McHENRY – WATER MAIN RELOCATION
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 2 OF 9 SHEETS | STA. 412+00 TO STA. 425+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	280
		CONTRACT NO. 62U72		
		ILLINOIS FED. AID PROJECT		



PROPOSED WATER MAIN AND SANITARY LEGEND

- PROPOSED WATER MAIN
- PROPOSED SANITARY SEWER
- TO BE ABANDONED
- TO BE REMOVED
- ADJ STRUCTURE TO BE ADJUSTED
- R STRUCTURE TO BE REMOVED

USER NAME = LG028	DESIGNED - SA	REVISED -	
	DRAWN - CRD/LG	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -	
PLOT DATE = 3/5/2026	DATE - 03/06/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF McHENRY – WATER MAIN RELOCATION
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 3 OF 9 SHEETS | STA. 425+00 TO STA. 438+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	281
		CONTRACT NO. 62U72		
	ILLINOIS FED. AID PROJECT			

PLAN — SURVEYED, PLOTTED, ALIGNMENT CHECKED, R/W, OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE — SURVEYED, PLOTTED, GRADES CHECKED, R/W, NOTED, STRUCTURE NOTATIONS CHKD, NOTE BOOK, NO., BY, DATE

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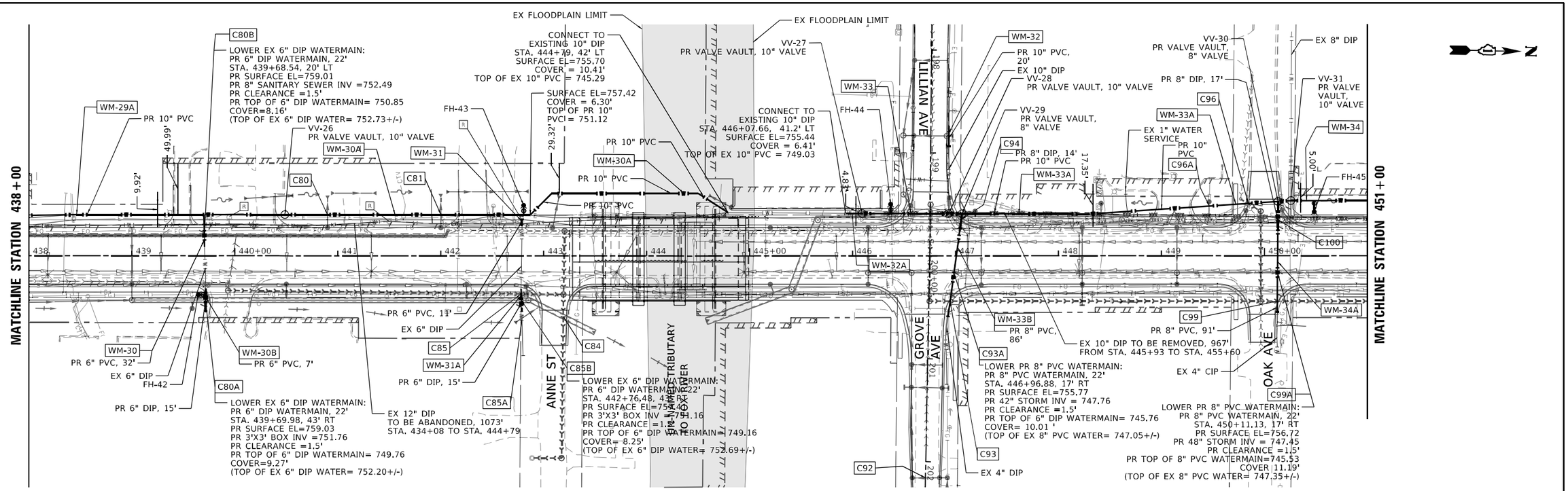

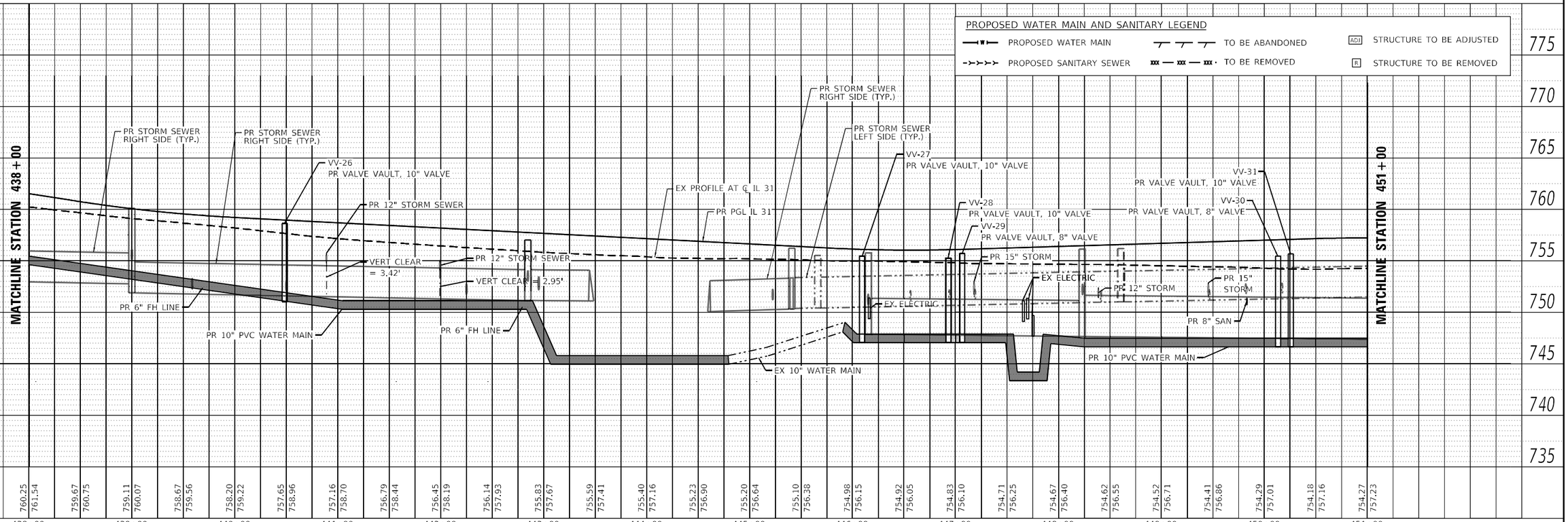

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PLOT DATE = 3/5/2026	DATE - 03/06/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF McHENRY – WATER MAIN RELOCATION
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 4 OF 9 SHEETS | STA. 438+00 TO STA. 451+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	282
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

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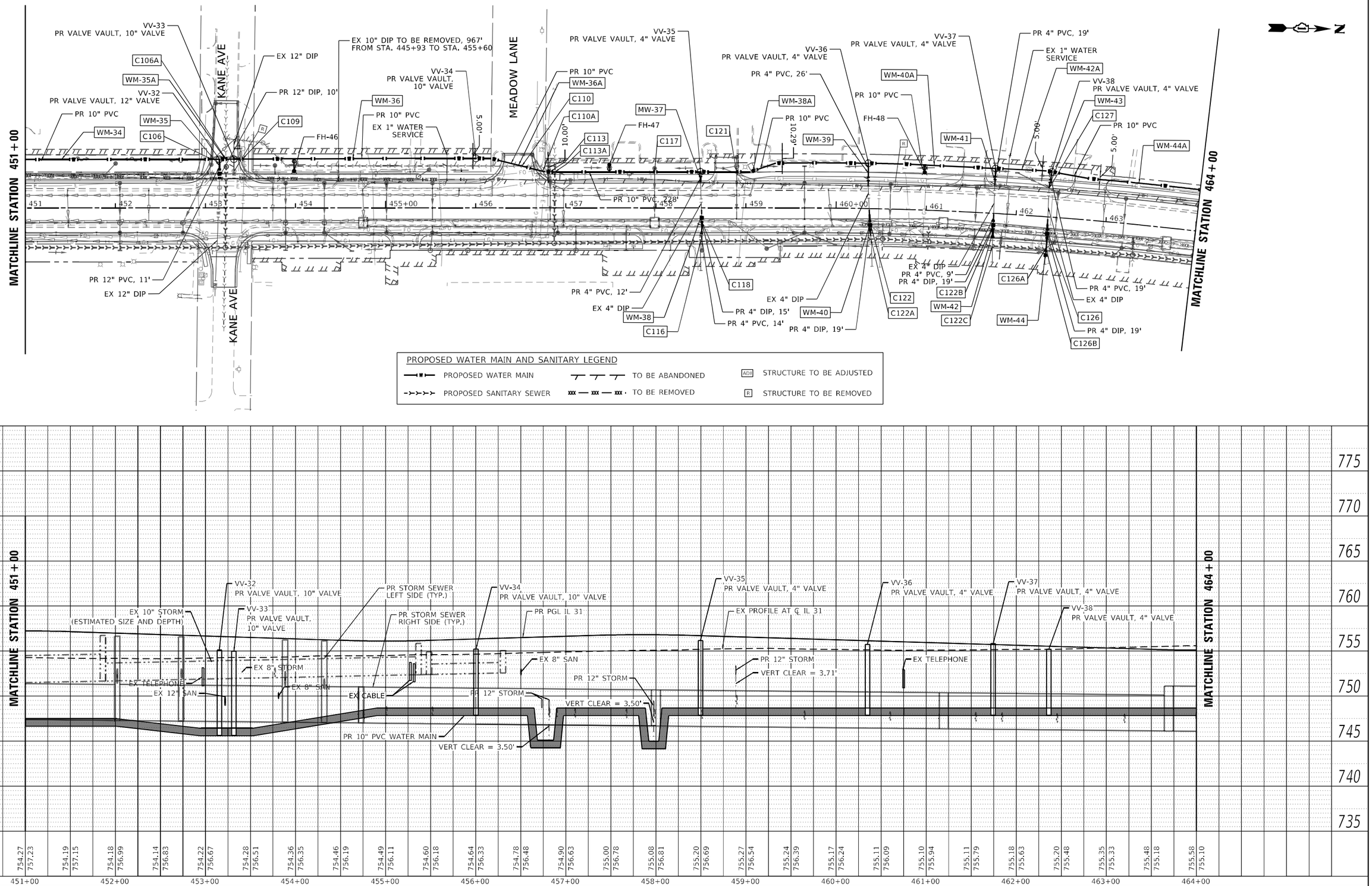

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PROFILE — NOTE BOOK NO. — SURVEYED — PLOTTED — GRADES CHECKED — B.M. NOTED — STRUCTURE NOTATIONS CHKD — BY — DATE

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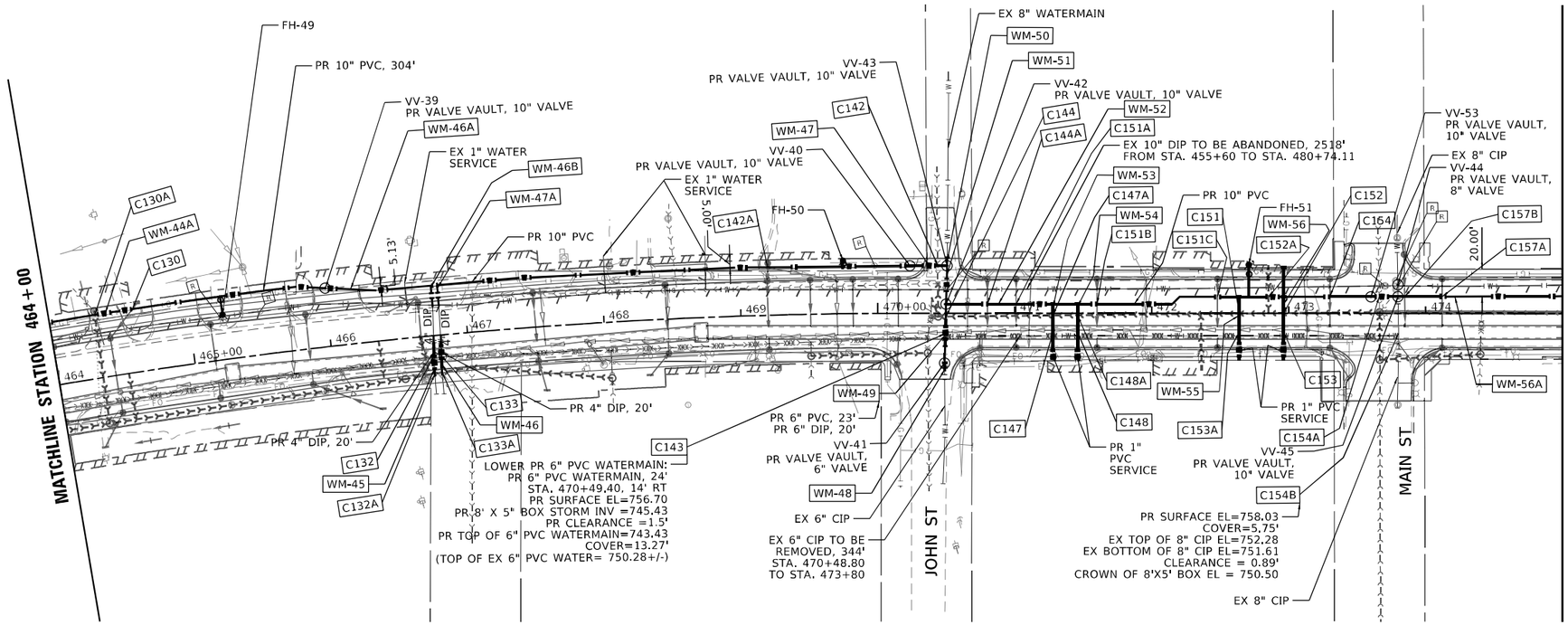
PATRICK a RAM company	USER NAME = LG028	DESIGNED - SA	REVISED - REVBY1
		DRAWN - CRD/LG	REVISED - REVBY2
	PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED - REVBY3
	PLOT DATE = 3/5/2026	DATE - 03/06/2026	REVISED - REVBY4

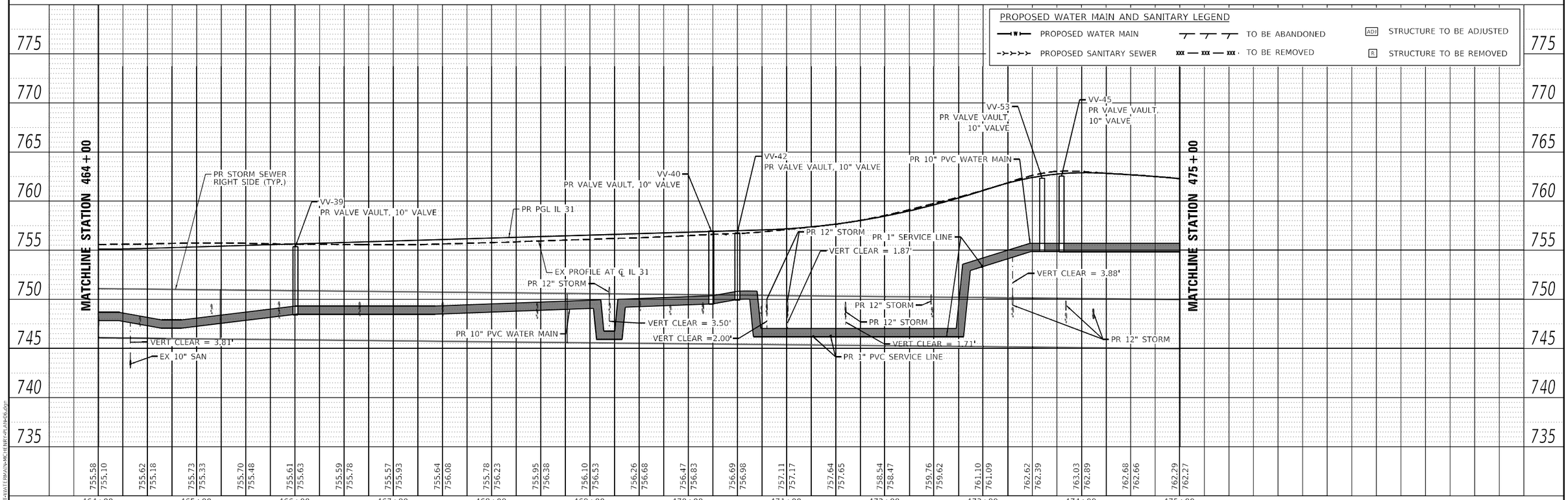
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF McHENRY – WATER MAIN RELOCATION
ILLINOIS ROUTE 31

SCALE: 1"=50' | SHEET 5 OF 9 SHEETS | STA. 451+00 TO STA. 464+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	283
		CONTRACT NO. 62U72		
		ILLINOIS FED. AID PROJECT		





PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
NOTE BOOK
NO.
CADD FILE NAME
BY
DATE

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
D.M. NOTED
STRUCTURE NOTATNS CHKD
NOTE BOOK
NO.
BY
DATE

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FILE NAME: C:\SHT\WATERMAIN\MCHENRY\PLAN06.dgn

PATRICK a RPA company

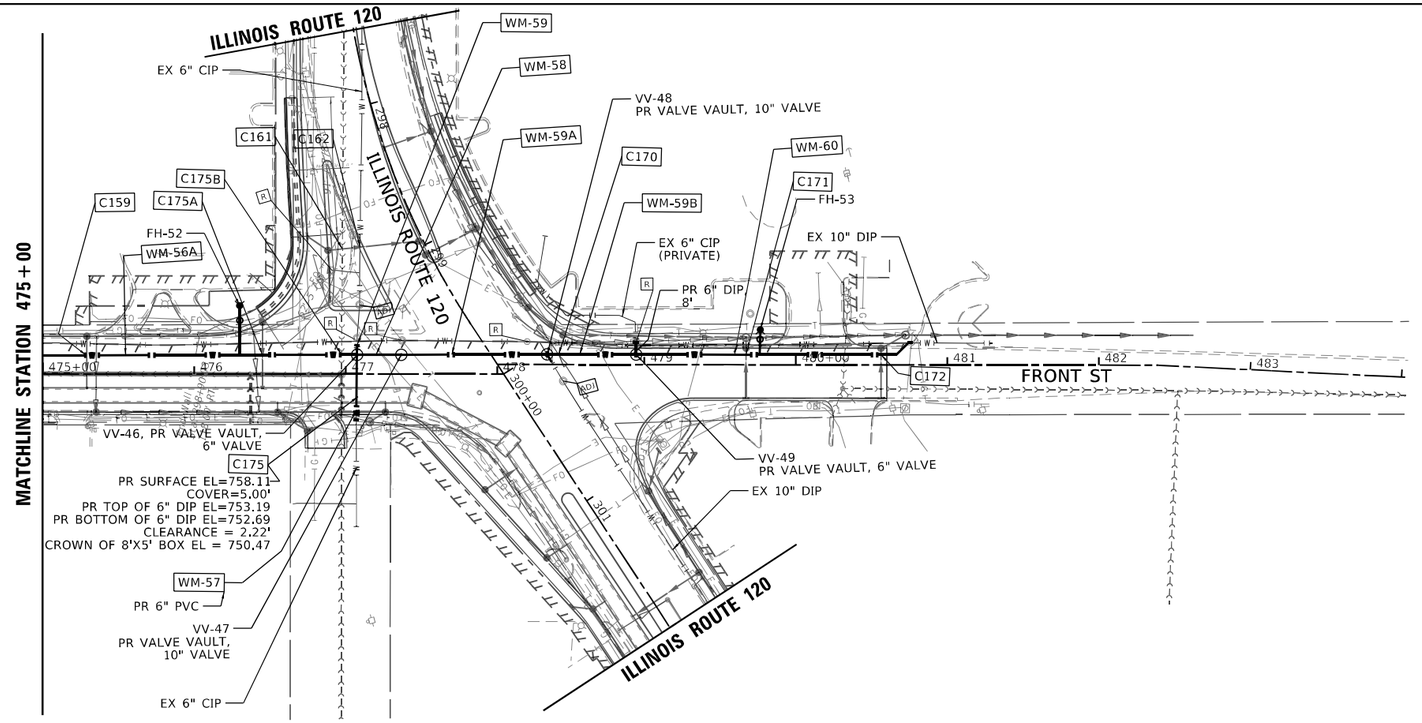
USER NAME = LG028	DESIGNED - SA/LG	REVISED -	REVBY1
	DRAWN - CRD/LG	REVISED -	REVBY2
PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -	REVBY3
PLOT DATE = 4/29/2026	DATE - 04/23/2026	REVISED -	REVBY4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF McHENRY – WATER MAIN RELOCATION
ILLINOIS ROUTE 31

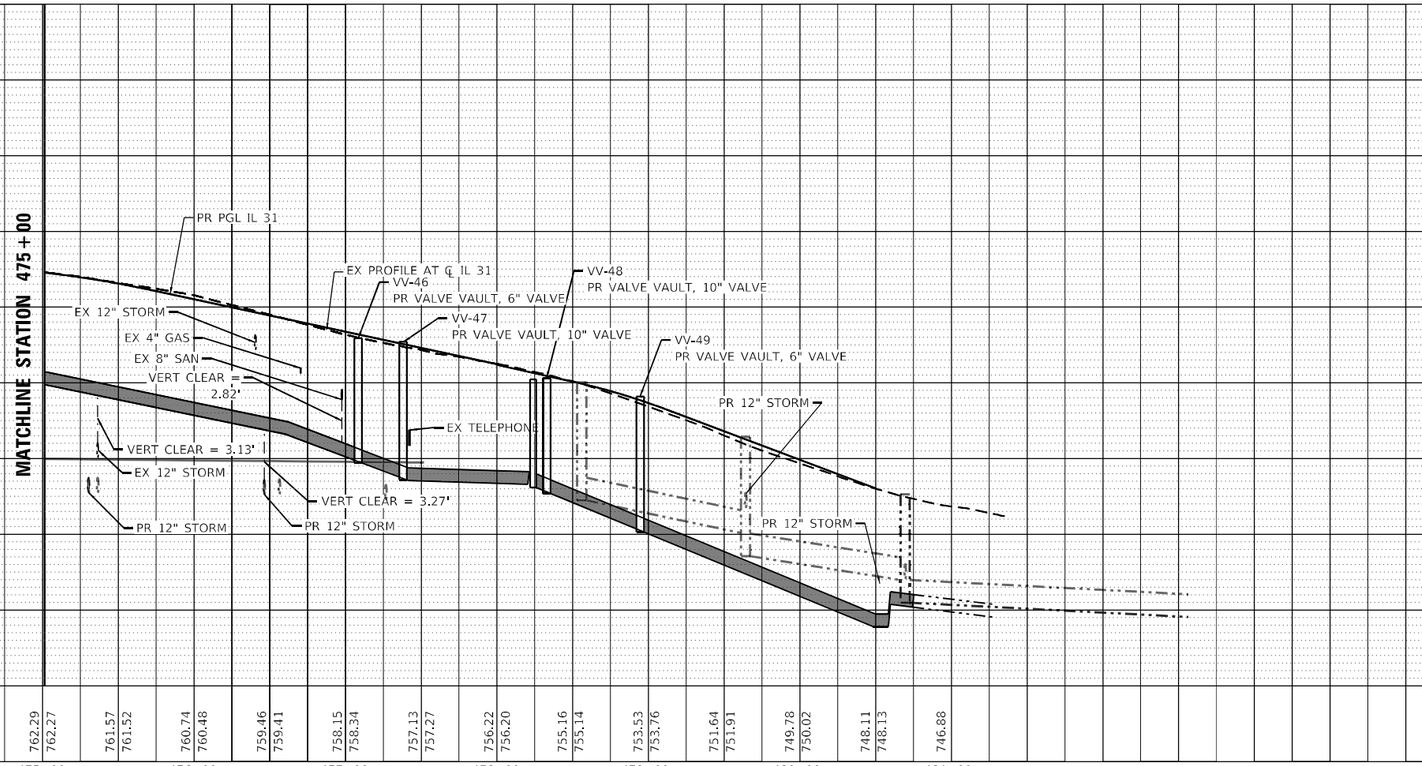
SCALE: 1"=50' | SHEET 6 OF 9 SHEETS | STA. 464+00 TO STA. 475+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	284
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	



PROPOSED WATER MAIN AND SANITARY LEGEND

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



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	DRAWN - CRD/LG	REVISED - REVBY2	**DEPARTMENT OF TRANSPORTATION**	**ILLINOIS ROUTE 31**	
PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED - REVBY3		SCALE: 1"=50' SHEET 7 OF 9 SHEETS STA. 475+00 TO STA. 484+00	
PLOT DATE = 3/5/2026	DATE - 03/06/2026	REVISED - REVBY4			

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	285
		CONTRACT NO. 62U72		
	ILLINOIS FED. AID PROJECT			

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NOTATNS CHKD, NOTE BOOK, NO., BY, DATE

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PLAN
NOTE BOOK
NO.
SURVEYED
PLOTTED
ALIGNMENT CHECKED
RT. OF WAY CHECKED
CADD FILE NAME
BY
DATE

PROFILE
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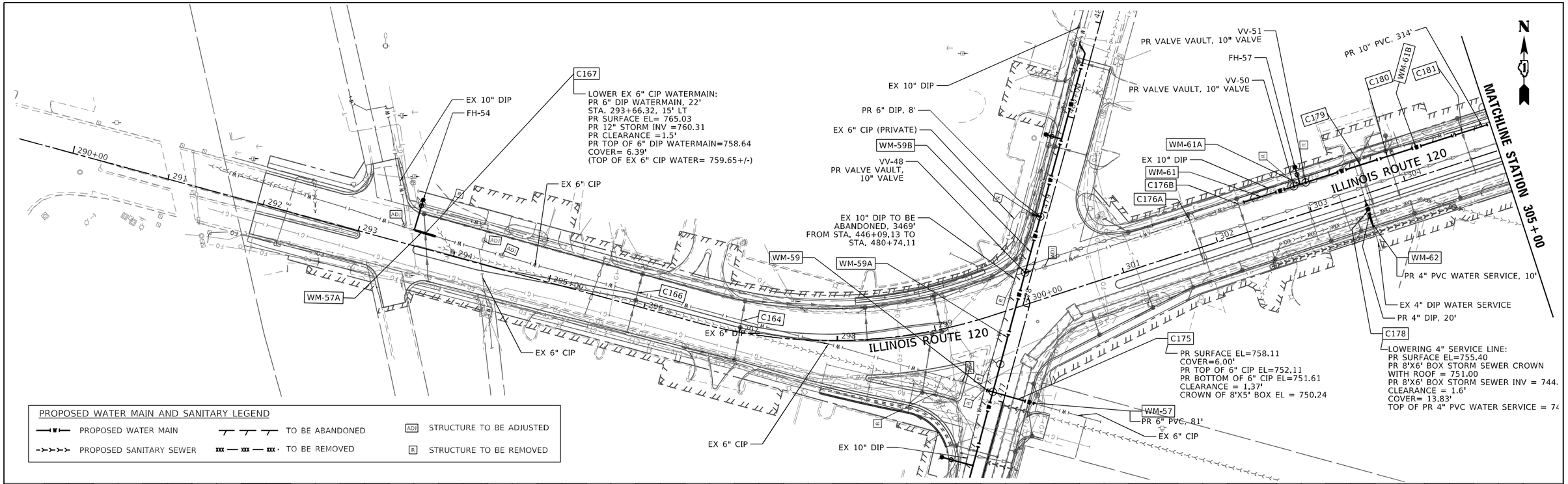
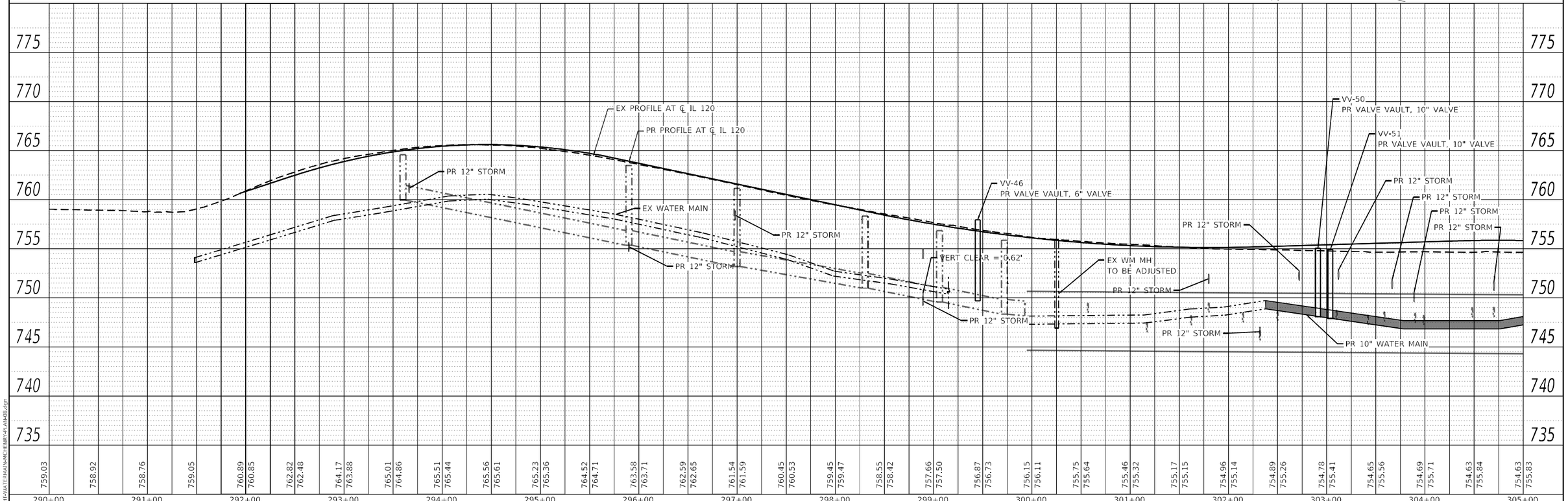
B.M. NOTED
STRUCTURE NOTATNS CHKD
BY
DATE



PROPOSED WATER MAIN AND SANITARY LEGEND

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



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PATRICK a RPA company

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		DRAWN - CRD/LG		REVISED -	REVBY2
PLOT SCALE = 100.0000 ' / in.		CHECKED - SA		REVISED -	REVBY3
PLOT DATE = 3/5/2026		DATE - 03/06/2026		REVISED -	REVBY4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF McHENRY – WATER MAIN RELOCATION
ILLINOIS ROUTE 120

SCALE: 1"=50' | SHEET 8 OF 9 SHEETS | STA. 287+00 | TO STA. 297+50

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	286
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

MATCHLINE STATION 305+00

ILLINOIS ROUTE 120

MILLSTREAM DR

THIRD ST

BOONE CREEK

305+00 306 307 308 309 310+00 311 312 313 314 315+00 316 317 318 319 320+00

PROPOSED WATER MAIN AND SANITARY LEGEND

- PROPOSED WATER MAIN
- PROPOSED SANITARY SEWER
- TO BE ABANDONED
- TO BE REMOVED
- ADJ STRUCTURE TO BE ADJUSTED
- R STRUCTURE TO BE REMOVED

MATCHLINE STATION 305+00

EX PROFILE AT ℄ IL 120

PR PROFILE AT ℄ IL 120

PR 12" STORM

PR 12" STORM

PR 12" STORM

PR 12" STORM

PR 12" STORM

PR 10" WATER MAIN

EX WATER MAIN

775 770 765 760 755 750 745 740 735

305+00	306+00	307+00	308+00	309+00	310+00	311+00	312+00	313+00
754.63 / 755.83	754.63 / 755.70	754.67 / 755.55	754.79 / 755.40	754.66 / 755.24	754.52 / 755.09	754.34 / 754.94	754.45 / 754.79	754.35 / 754.63
754.33 / 754.48	754.11 / 754.33	754.09 / 754.32	754.30 / 754.54	754.83 / 754.99	755.54 / 755.50	756.26	756.77	757.03

PLAN: SURVEYED, PLOTTED, ALIGNMENT CHECKED, RT. OF WAY CHECKED, CADD FILE NAME, NOTE BOOK, NO., BY, DATE

PROFILE: SURVEYED, PLOTTED, GRADES CHECKED, B.M. NOTED, STRUCTURE NO'S ENTRD, NOTE BOOK, NO., BY, DATE

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PATRICK a KCI company

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	DRAWN - CRD/LG	REVISED -	REVBY2
PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -	REVBY3
PLOT DATE = 3/5/2026	DATE - 03/06/2026	REVISED -	REVBY4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF McHENRY – WATER MAIN RELOCATION
ILLINOIS ROUTE 120

SCALE: 1"=50' | SHEET 9 OF 9 SHEETS | STA. 305+00 TO STA. 314+00

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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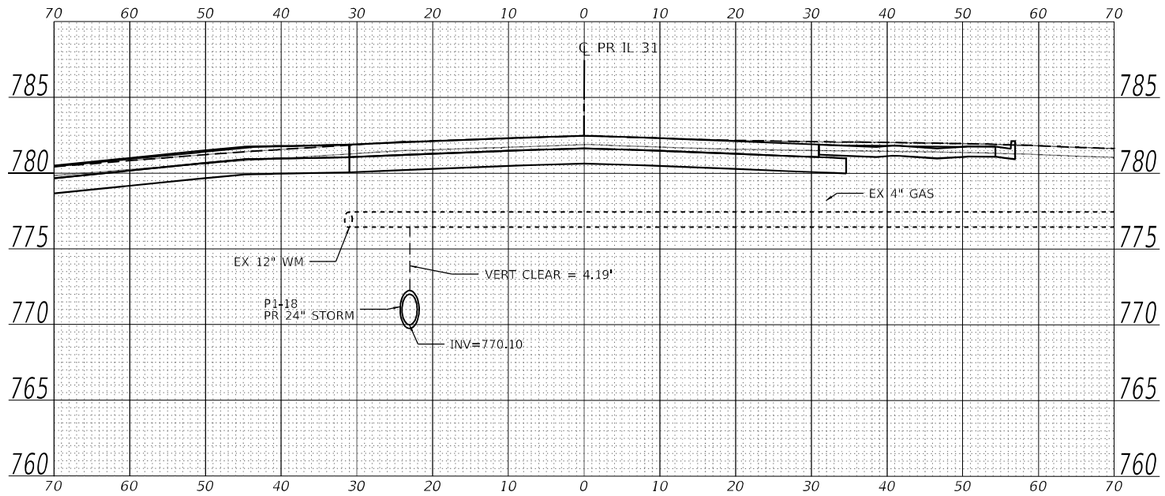
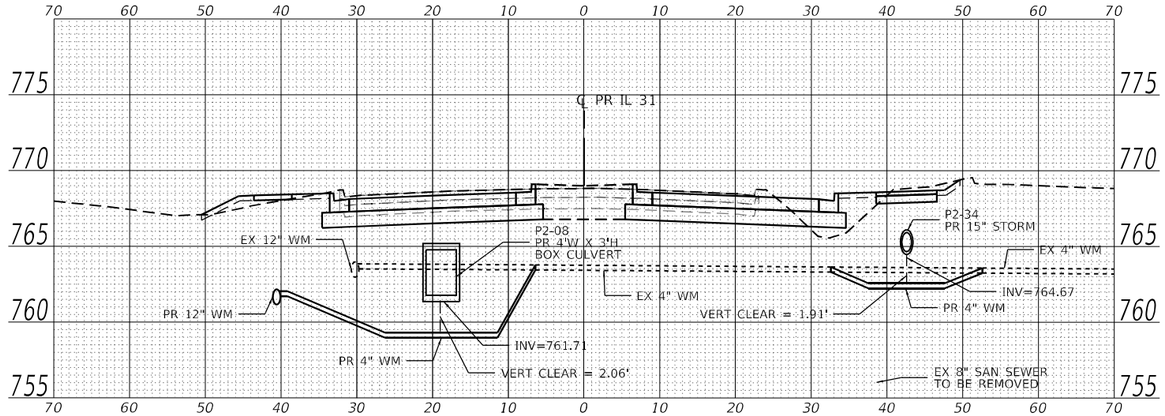
		CONTRACT NO. 62U72		
	ILLINOIS FED. AID PROJECT			



410 + 43.52



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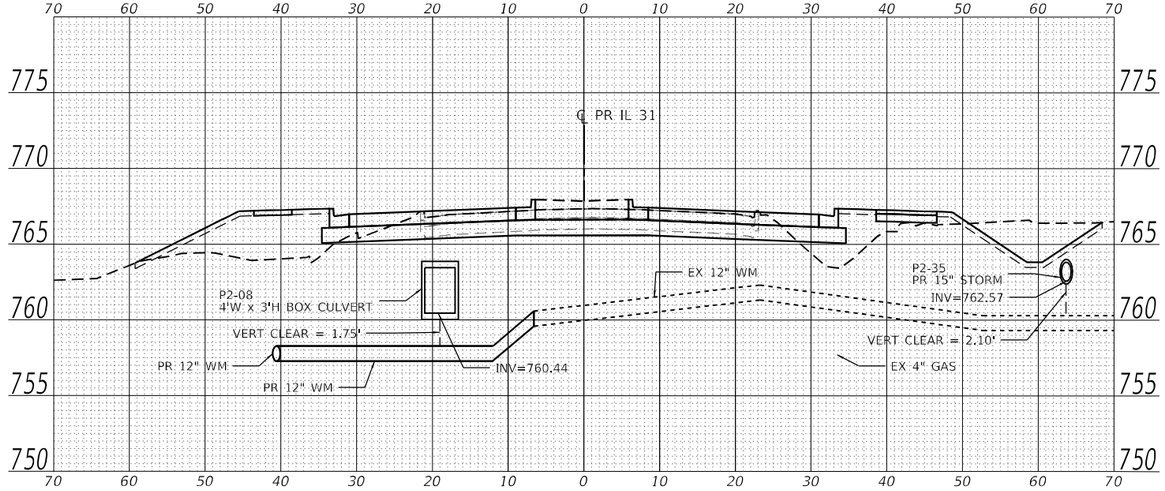

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PATRICK ENGINEERING INC.
55 EAST MONROE STREET
SUITE 3450
CHICAGO, IL 60603
www.pha-us.org
Design Firm License No. 184003496-0014

USER NAME = LG028	DESIGNED - SA	REVISED -
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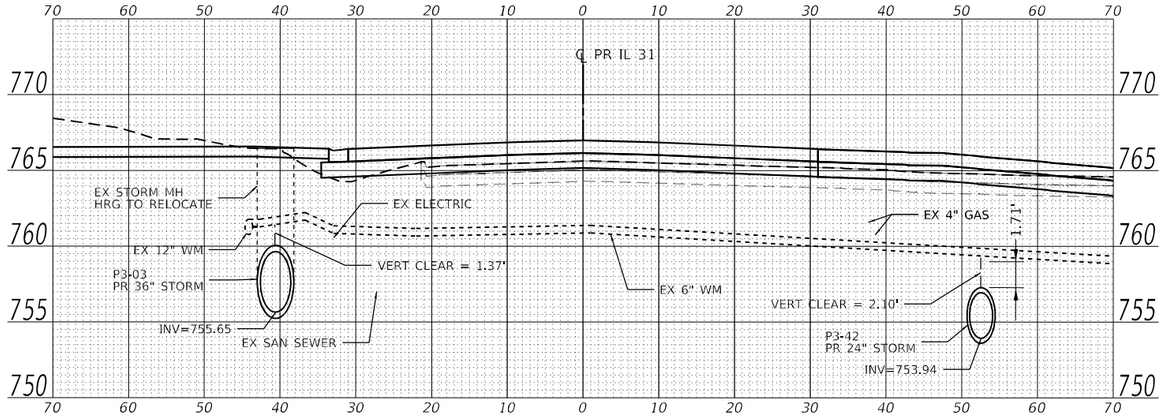
PLOT DATE = 3/5/2026	DATE - 03/06/2026	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

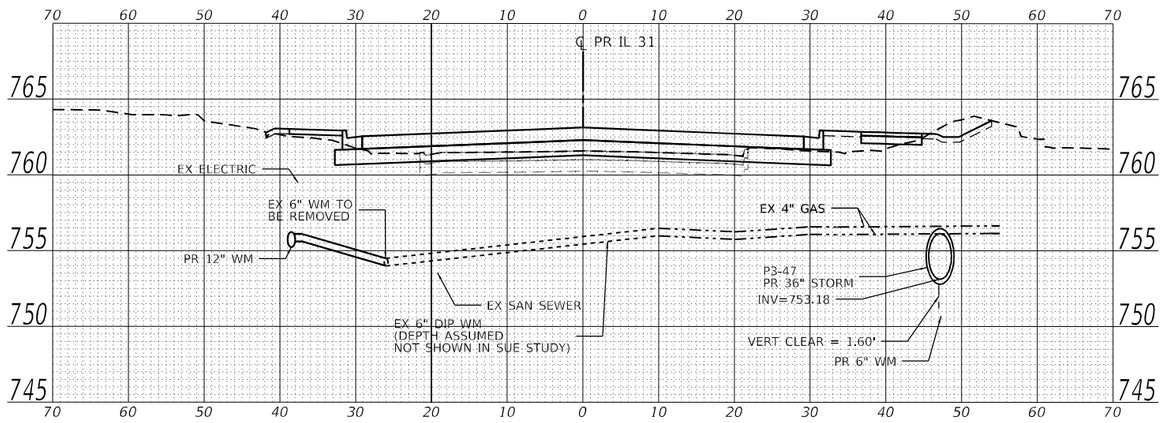
CITY OF MCHENRY – WATER MAIN CROSS SECTIONS
ILLINOIS ROUTE 31

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	288
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	



433 + 00.00



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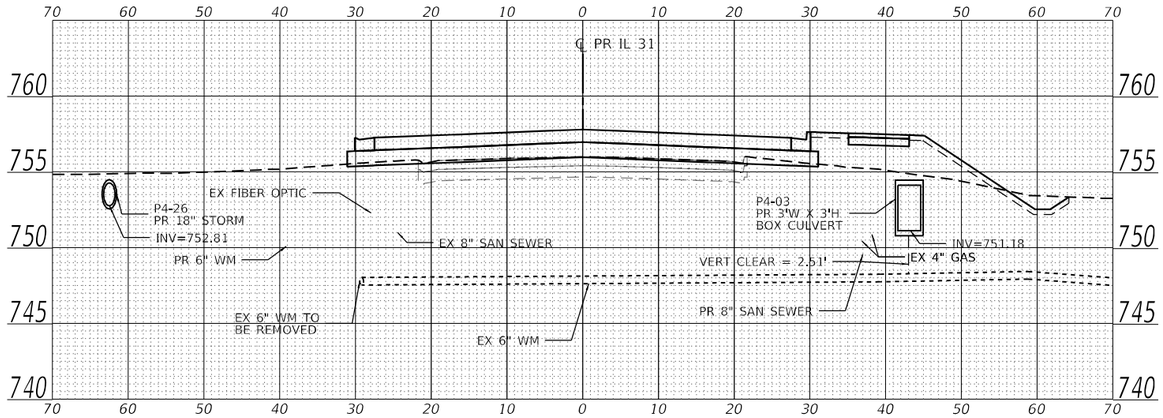

442 + 78.45

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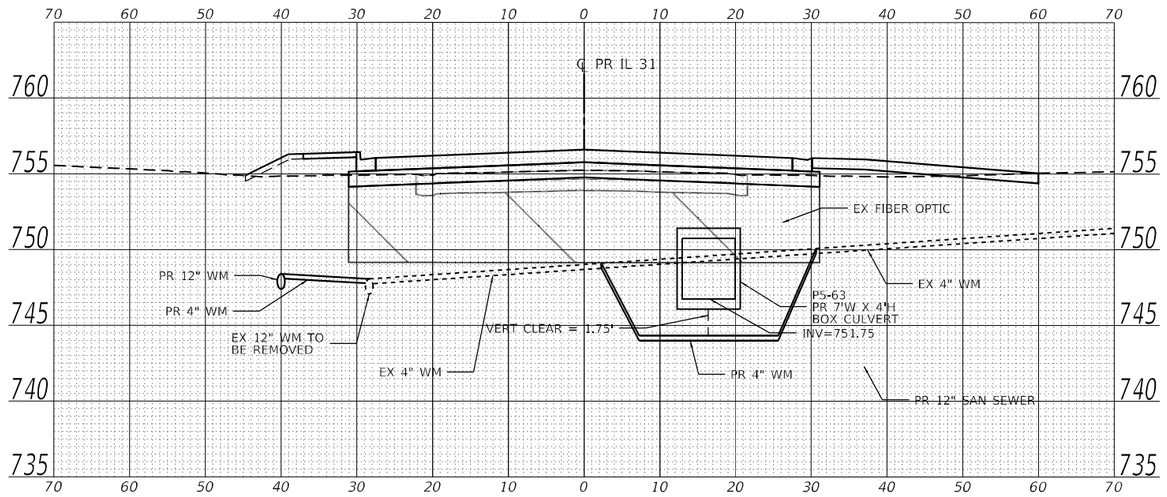
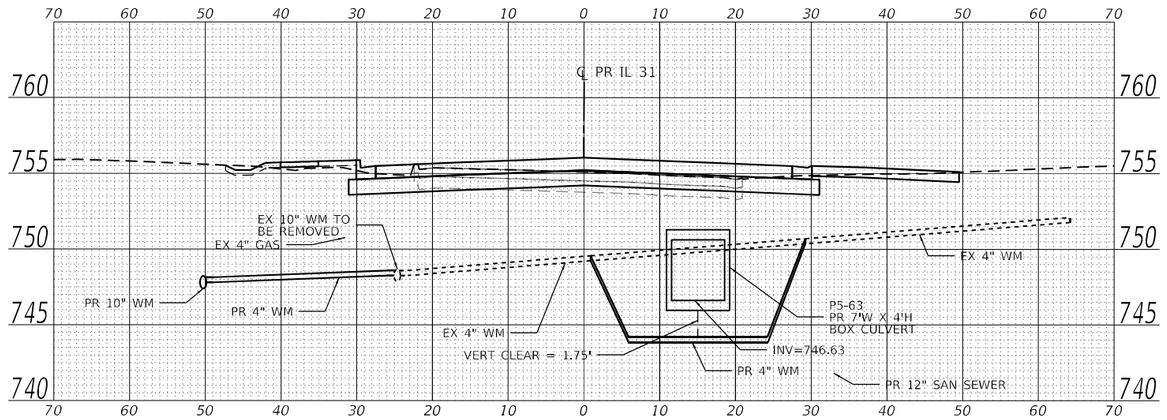
RINA PATRICK ENGINEERING INC. 55 EAST MONROE STREET SUITE 3450 CHICAGO, IL 60603 www.rina-us.org Design Firm License No. 184000406-0014	USER NAME = LG028	DESIGNED - SA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CITY OF MCHENRY – WATER MAIN CROSS SECTIONS ILLINOIS ROUTE 31
		DRAWN - EK/LG	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -		
	PLOT DATE = 3/5/2026	DATE - 03/06/2026	REVISED -		SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

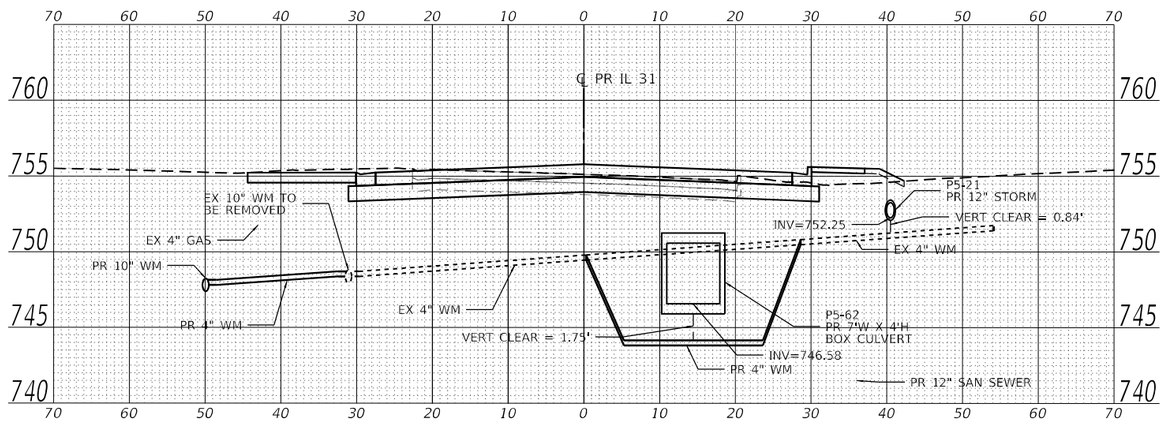
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	289
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	



458 + 49.48



460 + 36.80



461 + 75.07

PATRICK ENGINEERING INC.
55 EAST MONROE STREET
SUITE 3450
CHICAGO, IL 60603
www.pina-us.org
Design Firm License No. 184003496-0014

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	DRAWN - EK/LG	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -	
PLOT DATE = 3/5/2026	DATE - 03/06/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF MCHENRY – WATER MAIN CROSS SECTIONS
ILLINOIS ROUTE 31

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

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	290
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

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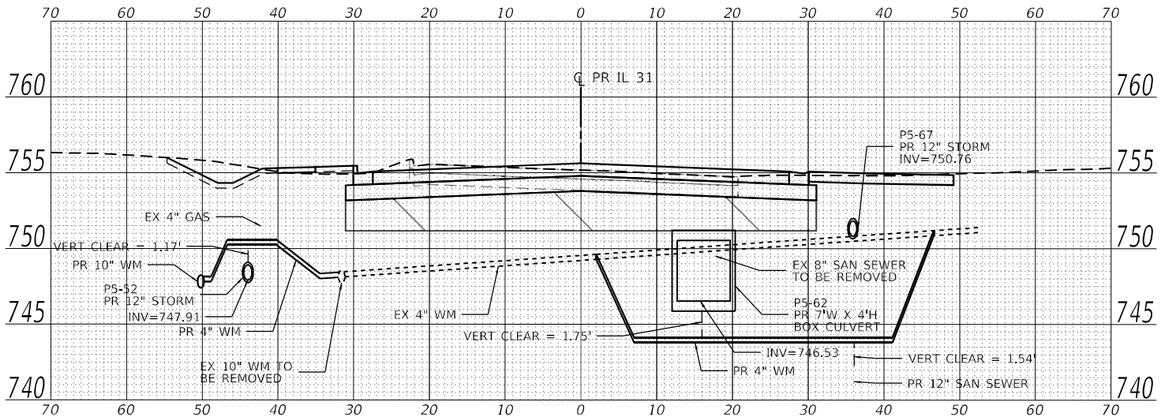
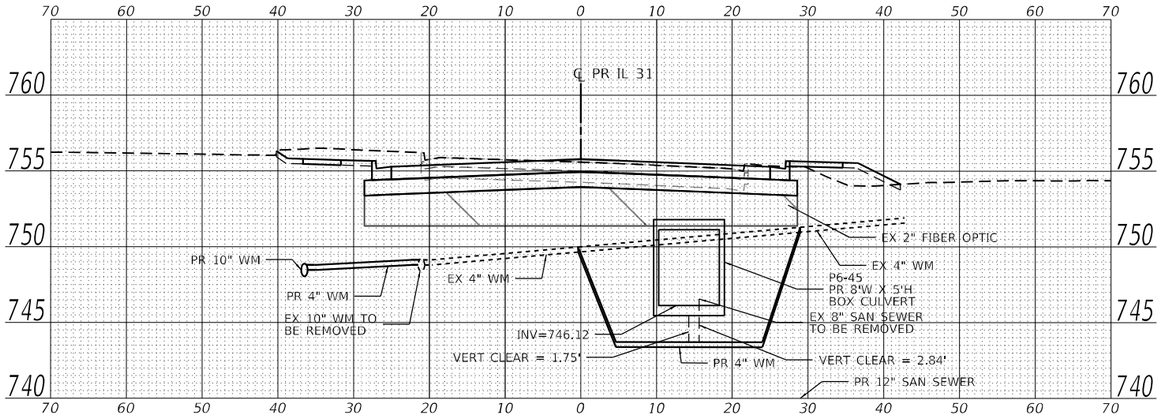


462 + 35.25



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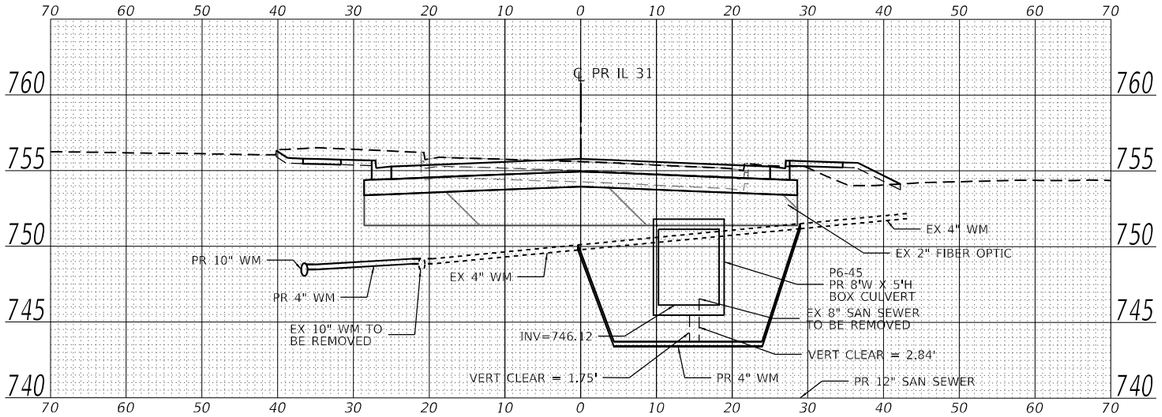

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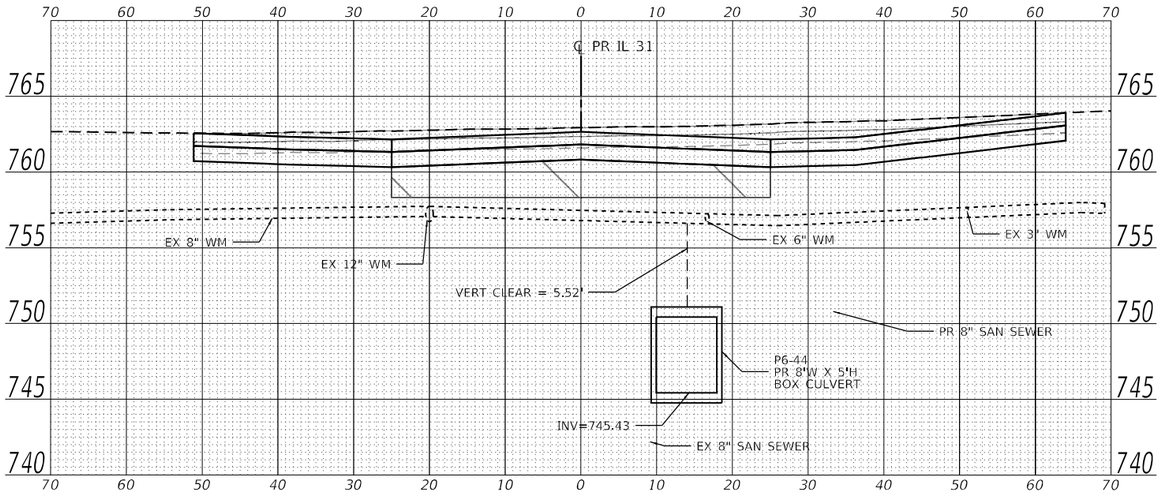
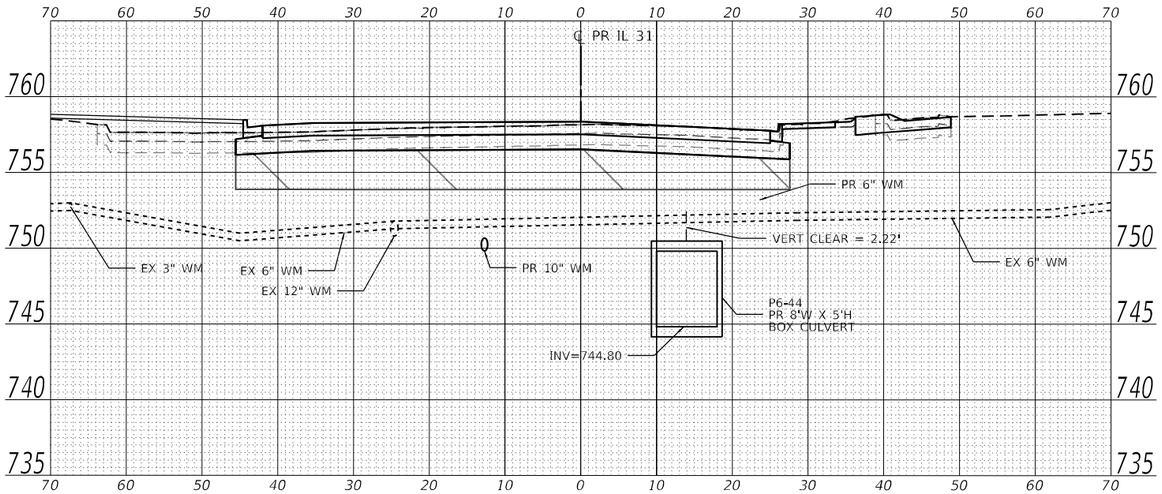
PATRICK ENGINEERING INC. 55 EAST MONROE STREET SUITE 3450 CHICAGO, IL 60603 www.pna-us.org Design Firm License No. 184003496-0014	USER NAME = LG028	DESIGNED - SA	REVISED -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**CITY OF MCHENRY – WATER MAIN CROSS SECTIONS** **ILLINOIS ROUTE 31**
		DRAWN - EK/LG	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -		SCALE: 1"=50' | SHEET OF SHEETS | STA. TO STA.
	PLOT DATE = 3/5/2026	DATE - 03/06/2026	REVISED -		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	291
		CONTRACT NO. 62U72		
	ILLINOIS | FED. AID PROJECT			



473 + 79.97



477 + 07.28

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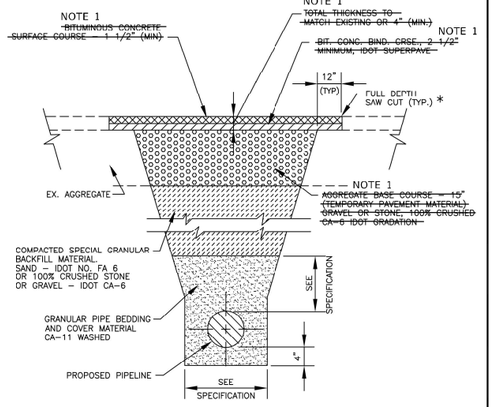
PATRICK ENGINEERING INC. 55 EAST MONROE STREET SUITE 3450 CHICAGO, IL 60603 www.rina-us.org Design Firm License No. 184000409-0014	USER NAME = LG028	DESIGNED - SA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CITY OF MCHENRY – WATER MAIN CROSS SECTIONS ILLINOIS ROUTE 31
		DRAWN - EK/LG	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -		
	PLOT DATE = 3/5/2026	DATE - 03/06/2026	REVISED -		SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	292
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

E-1



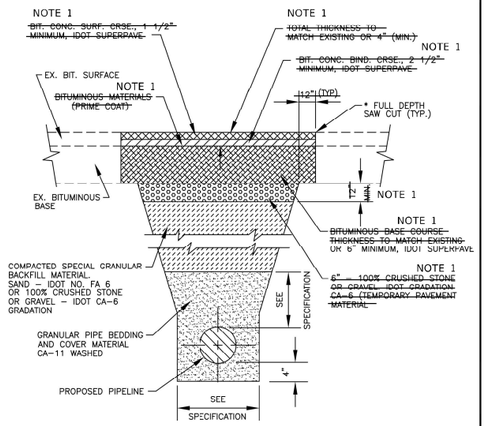
NOTE:

1. PAVEMENT MATERIALS SHALL BE PER MATERIALS AND DIMENSIONS SHOWN IN PROPOSED ROADWAY TYPICAL SECTIONS, SHEETS 37 TO 40.

* FULL DEPTH SAWCUT PRIOR TO EXCAVATION. FULL DEPTH SAWCUT REQUIRED AGAIN PRIOR TO RESTORATION AT THE DIRECTION OF THE CITY REPRESENTATIVE.

EXISTING PAVEMENT TYPICAL TRENCH DETAIL AGGREGATE BASE	CITY OF McHENRY, ILLINOIS	REVISIONS	DATE
		FINAL	6-20-03
		UPDATE	8-27-07

E-2



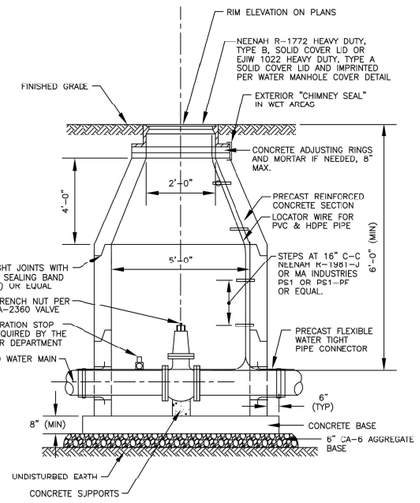
NOTE:

1. PAVEMENT MATERIALS SHALL BE PER MATERIALS AND DIMENSIONS SHOWN IN PROPOSED ROADWAY TYPICAL SECTIONS, SHEETS 37 TO 40.

* FULL DEPTH SAWCUT PRIOR TO EXCAVATION. FULL DEPTH SAWCUT REQUIRED AGAIN PRIOR TO RESTORATION AT THE DIRECTION OF THE CITY REPRESENTATIVE.

EXISTING PAVEMENT TYPICAL TRENCH DETAIL BITUMINOUS BASE	CITY OF McHENRY, ILLINOIS	REVISIONS	DATE
		FINAL	6-20-03
		UPDATE	8-27-07

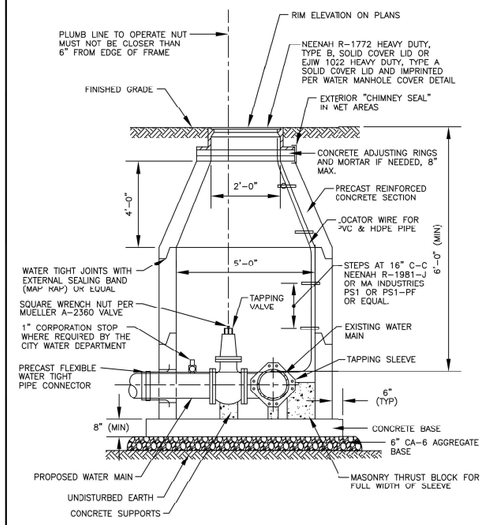
F-1



1. BACKFILL SHALL BE GRANULAR MATERIAL
2. FLAT TOPS SHALL BE DESIGNED FOR AASHTO HS 20-44 WHEEL LOADING.

STANDARD WATER VALVE VAULT	CITY OF McHENRY, ILLINOIS	REVISIONS	DATE
		FINAL	6-20-03
		BOOT & STEPS	11-18-03
		ADJ. RING HEIGHT	1-16-04
		UPDATE	8-27-07

F-2



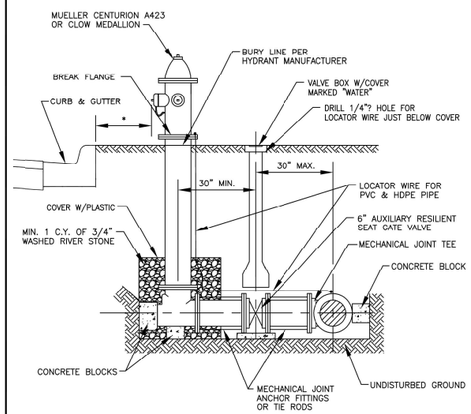
1. BACKFILL SHALL BE GRANULAR MATERIAL
2. FLAT TOPS SHALL BE DESIGNED FOR AASHTO HS 20-44 WHEEL LOADING.

TYPICAL PRESSURE CONNECTION	CITY OF McHENRY, ILLINOIS	REVISIONS	DATE
		FINAL	6-20-03
		BOOT & STEPS	11-18-03
		ADJ. RING HEIGHT	1-16-04
		UPDATE	8-27-07

F-3

NOTE: FIRE HYDRANTS SHALL BE MARKED WITH AN "X" ON THE NORTHWESTERN MOST FLANGE BOLT AND THE ELEVATION OF THE BOLT RECORDED ON THE RECORD DRAWING FOR THE PROJECT.

* NO PART OF THE FIRE HYDRANT SHALL BE ANY CLOSER THAN 36" TO THE BACK OF CURB

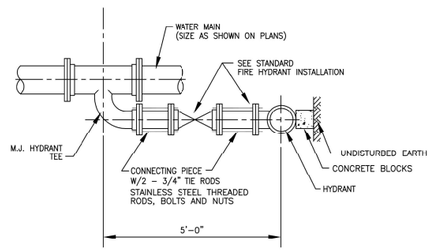


1. THREADED RODS AND NUTS SHALL BE "CORTEN STEEL"
2. BLOCKING AGAINST UNDISTURBED EARTH
3. RETAINING GLANDS

ACCEPTABLE FORMS OF BLOCKING SHALL BE ANY TWO COMBINATIONS OF THE METHODS 1, 2, OR 3 SHOWN ABOVE. AUXILIARY VALVES MUST USE METHODS 1 AND 3 TO CONNECT TO THE WATER MAIN.

FIRE HYDRANT INSTALLATION DETAIL	CITY OF McHENRY, ILLINOIS	REVISIONS	DATE
		FINAL	6-20-03
		LOCATOR WIRE	11-18-03
		UPDATE	8-27-07

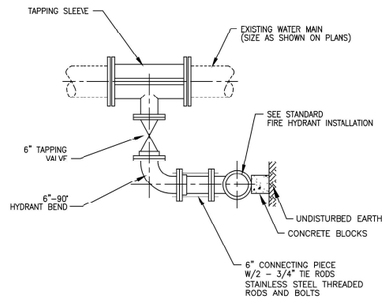
F-4



1. ANY CHANGE OF DIRECTION REQUIRES RETAINER GLANDS AND BLOCKING
2. RETAINER GLANDS SHALLED BE INSTALL PER MANUFACTURERS RECOMMENDATIONS.

FIRE HYDRANT 90° CONNECTION WATER MAIN SIZES 6" THRU 12" IN DIAMETER	CITY OF McHENRY, ILLINOIS	REVISIONS	DATE
		FINAL	6-20-03

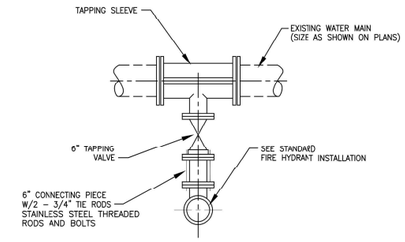
F-6



1. ANY CHANGE OF DIRECTION REQUIRES RETAINER GLANDS AND BLOCKING
2. RETAINER GLANDS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

FIRE HYDRANT 90° PRESSURE TAP	CITY OF McHENRY, ILLINOIS	REVISIONS	DATE
		FINAL	6-20-03

F-7



1. ANY CHANGE OF DIRECTION REQUIRES RETAINER GLANDS AND BLOCKING
2. RETAINER GLANDS SHALL BE INSTALLED PER MANUFACTURERS RECOMMENDATIONS.

FIRE HYDRANT PRESSURE TAP	CITY OF McHENRY, ILLINOIS	REVISIONS	DATE
		FINAL	6-20-03

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PATRICK a MOTT company

USER NAME = LG028	DESIGNED -	REVISED -
	DRAWN - LG	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -
PLOT DATE = 3/5/2026	DATE - 03/06/2026	REVISED -

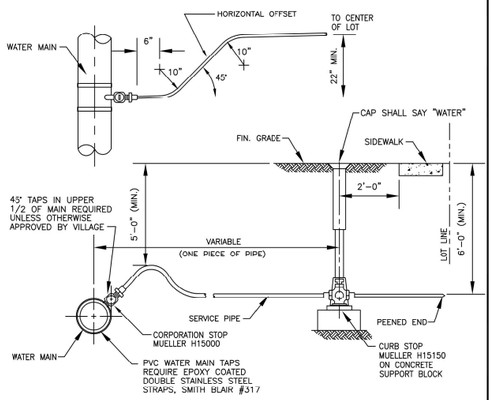
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATERMAIN STANDARD DETAILS
CITY OF McHENRY

SCALE: NTS | SHEET 1 OF 2 SHEETS | STA. - | TO STA. -

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	293
		CONTRACT NO. 62U72		
	ILLINOIS	FED. AID PROJECT		

F-8



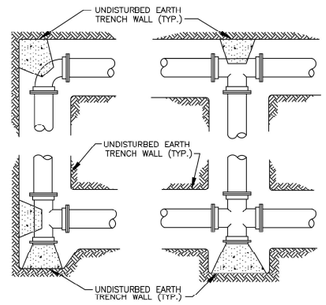
SECTION

SERVICE PIPE	COMP. STOP	CURB STOP	SERVICE BOX
1"	1"	1"	27"
1½" 1?"	1½" 1½" X 1?"	1½" 1?"	3" 3"
2"	1?" X 2"	2"	3"

NOTE: CONTACT THE CITY OF McHENRY WATER DEPARTMENT FOR VERIFICATION THAT THE MATERIALS INTENDED FOR USE ARE ACCEPTABLE TO THE CITY OF McHENRY.

WATER SERVICE INSTALLATION	CITY OF McHENRY, ILLINOIS	REVISIONS	DATE
		FINAL	6-20-03
		SUPPORT BLOCK	11-18-03

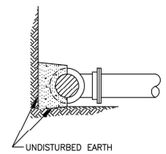
F-9



PLANS

NOTES

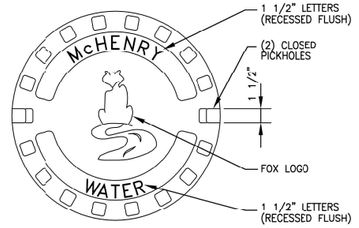
1. PROVIDE PRECAST OR CAST-IN-PLACE CONCRETE THRUST BLOCKS OF ADEQUATE SIZE AND THRUST BEARING SURFACE TO PREVENT MOVEMENT OF PIPELINE UNDER PRESSURE.
2. PLACE THE BASE AND THRUST BEARING SIDES OF THRUST BLOCK DIRECTLY AGAINST UNDISTURBED EARTH.
3. PLACE THRUST BLOCKING SO THE FITTING JOINTS WILL BE ACCESSIBLE FOR REPAIR.



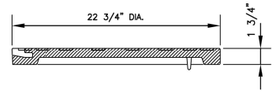
SECTIONS

WATER MAIN THRUST BLOCKING DETAILS	CITY OF McHENRY, ILLINOIS	REVISIONS	DATE
		FINAL	6-20-03

F 10



PLAN



SECTION

WATER MANHOLE COVER DETAIL	CITY OF McHENRY, ILLINOIS	REVISIONS	DATE
		FINAL	6-20-03

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PATRICK a STV company	USER NAME = LG028	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WATERMAIN STANDARD DETAILS CITY OF McHENRY
		DRAWN - LG	REVISED -		
	PLOT SCALE = 100.0000 ' / in.	CHECKED - SA	REVISED -		SCALE: NTS | SHEET 1 OF 2 SHEETS | STA. - TO STA. -
	PLOT DATE = 3/5/2026	DATE - 03/06/2026	REVISED -		

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	294
		CONTRACT NO. 62U72		
		ILLINOIS | FED. AID PROJECT		

Accurate
GROUP, INC.

WWW.ACCGI.COM
101 SCHELTER RD., SUITE B-200
LINCOLNSHIRE, ILLINOIS 60069
T (847) 613-1100 F (847) 613-1105

ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184.002053

COVER SHEET

LEGEND

- AERIAL — A
- CABLE TV — CTV
- ELECTRIC — E
- FIBER OPTIC — FO
- GAS — G
- TELEPHONE — T
- WATER — W
- SANITARY MAIN
- STORM SEWER
- QUALITY LEVEL D
- UNKNOWN — UNK
- PROJECT LIMITS

062-072692 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

I, AHMEDI BEE, CERTIFY TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE UTILITY INFORMATION DEPICTED BY ACCURATE GROUP, INC. ON THIS PLAN SHEET WAS OBTAINED AND COMPILED UNDER MY DIRECT SUPERVISION USING ACCEPTED PRACTICES AND PROCEDURES.

DATE: 05/12/2023

AHMEDI BEE, PE
PROJECT ENGINEER; ACCURATE GROUP, INC.

LEGEND/NOTES

ALL UTILITY INFORMATION HEREON IS DEPICTED TO QUALITY LEVEL "B" (QL-B) UNLESS OTHERWISE NOTED. QL-B INFORMATION IS OBTAINED THROUGH THE APPLICATION OF APPROPRIATE SURFACE GEOPHYSICAL METHODS TO IDENTIFY THE EXISTENCE AND APPROXIMATE HORIZONTAL POSITION OF SUBSURFACE UTILITIES. QL-B DATA ARE REPRODUCIBLE BY SURFACE GEOPHYSICS AT ANY POINT OF THEIR DEPICTION. THIS INFORMATION IS SURVEYED TO APPLICABLE TOLERANCES AND REDUCED ONTO PLAN DOCUMENTS.
SIZE INFORMATION SHOWN HEREON IS TAKEN FROM AVAILABLE UTILITY RECORDS OR BEST EFFORT TO MEASURE IN THE FIELD.

ABBREVIATIONS:

(QL-C)	DEPICTED ACCORDING TO RECORD INFORMATION AND EXISTING ASSOCIATED UTILITY STRUCTURES. NO ELECTRONIC INFORMATION WAS OBTAINED.
(QL-D)	DEPICTED ACCORDING TO RECORD INFORMATION. NO ELECTRONIC INFORMATION WAS OBTAINED.
(DATFI)	DEPICTED ACCORDING TO FIELD INSPECTION
(FO)	FIBER OPTIC
(AATUR)	ABANDONED ACCORDING TO UTILITY RECORDS
(AATFI)	ABANDONED ACCORDING TO FIELD INSPECTION
(EATFI)	EMPTY ACCORDING TO FIELD INSPECTION
(EOI)	END OF ELECTRONIC DESIGNATING INFORMATION
(EORI)	END OF UTILITY RECORD INFORMATION
(NAC)	NO ASSOCIATED CABLE FOUND FROM UTILITY STRUCTURE
(NAP)	NO ASSOCIATED PIPING FOUND FROM UTILITY STRUCTURE
(ATW)	ATTACHED TO WALL
(ATB)	ATTACHED TO BRIDGE
⊦	UTILITY ENDPOINT
ELEV.	ELEVATION
INV	INVERT OF PIPE/CULVERT
MH	MANHOLE, STORM
MHSS	MANHOLE, SANITARY SEWER
CULV	CULVERT
(UTR)	UNABLE TO REACH
(UTO)	UNABLE TO OPEN
(FOD)	FULL OF DEBRIS
(FOW)	FULL OF WATER
(PNV)	PIPE NOT VISIBLE
DEEP	PIPE IS TOO DEEP TO REACH

UNLESS OTHERWISE NOTED, UTILITY LINE LIMITS DEPICTED REPRESENT FIELD DESIGNATING LIMITS AND NOT ENDPOINTS OF UTILITIES.

UTILITY INFORMATION LABELED "QL-C" OR "QL-D" IS DERIVED FROM FURNISHED RECORDS. SUCH INFORMATION MAY NOT BE ACCURATE OR RELIABLE. ACCURATE GROUP, INC. EXPRESSLY DISCLAIMS RESPONSIBILITY FOR THE ACCURACY OR RELIABILITY OF UTILITY INFORMATION DEPICTED ACCORDING TO RECORDS.

ELECTRONIC DEPTH READINGS WERE TAKEN DIRECTLY FROM ELECTRONIC DESIGNATION INSTRUMENTS AND HAVE NOT BEEN VERIFIED BY ANY OTHER MEANS. EQUIPMENT MANUFACTURERS WILL NOT GUARANTEE AND ACCURACY FOR THIS DATA. THEREFORE, THE DEPTH READINGS ARE NOT TO BE CONSIDERED SUITABLE FOR DESIGN DECISIONS. ACCURATE GROUP, INC. DOES NOT WARRANT OR GUARANTEE THE ACCURACY OF RELIABILITY OF ANY ELECTRONIC DEPTH READINGS.

THE BACKGROUND BASE (TOPO) AND ROADWAY ALIGNMENT SHOWN WAS PROVIDED BY IDOT.

THE ELEVATION ON ALL STORM SEWER STRUCTURES WITH BEEHIVE GRATES WERE SHOT AT THE HIGHEST POINT OF THE GRATE.

THE SANITARY AND STORM SEWER SIZES AND MATERIAL ALONG WITH STRUCTURE TYPE ARE FROM UTILITY RECORDS OR BEST EFFORT TO SEE OR MEASURE IN THE FIELD WITHOUT ENTERING THE STRUCTURE. SANITARY AND STORM LINES ARE DEPICTED AS QL-C UNLESS OTHERWISE INDICATED. THE PIPES WERE NOT RODDED BETWEEN STRUCTURES AND THEREFORE WHERE THE CONNECTIVITY IS SHOWN IS BASED ON BEST EFFORT IN THE FIELD AND RECORDS. THE PIPE CONNECTIVITY BETWEEN STRUCTURES IS NOT SHOWN WHERE WE WERE UNABLE TO SEE THE PIPES DUE TO THE STRUCTURE BEING INUNDATED WITH WATER, OFFSET OF PIPES AND OUT OF VIEW OR FULL OF SILT OR DEBRIS.

UTILITY OWNERS

ATT METRO / AT&T TCA
ATTN: BOBBY AKHTER
BA3817@ATT.COM
ATT - DISTRIBUTION
ATTN: JANET C. AHERN
G11629@ATT.COM

COMCAST
ATTN: MARTHA GIERAS
MARTHA GIERAS@CABLE.COMCAST.COM
224-229-5862
BOB SCHULTER
BOB SCHULTER@COMCAST.COM

COMED
DESIGN STAGE LOCATE LINE
PLANSUBMITTALSANDMAPREQUESTS@EXELONCORP.COM
866-639-3532
ATTN: VINCENT MAZZAFERRO
VINCENT.MAZZAFERROPE@COMED.COM
779-231-1027
TIM TAMASON
TIMOTHY.TAMASON@COMED.COM

NICOR GAS
UTILITY CONSULTANT GO3W
ATTN: CHARLES PARROTT
CPARROTT@SOUTHERNCO.COM
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GASMAPS@AGLRESOURCES.COM
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SFORAH@SOUTHERNCO.COM
630-388-2903

EVERSTREAM GLC HOLDING CO, LLC
ATTN: CHRIS BOWER
CBOWER@EVERSTREAM.NET
JEFIN STEPHEN
JSTEPHEN@EVERSTREAM.NET
216-402-1829

MCHENRY COUNTY - DIVISION OF TRANSPORTATION
ATTN: TOM ANTHONY
TRANTHONY@MCHENRYCOUNTYIL.GOV
815-334-4988

CITY OF MCHENRY
ATTN: STEVE WIRCH
SWIRCH@CITYOFMCHENRY.ORG
TROY STRANGE
TSTRANGE@CITYOFMCHENRY.ORG
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ADESTA G4S
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CITY OF CRYSTAL LAKE
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AWILGREEN@CRYSTALLAKE.ORG
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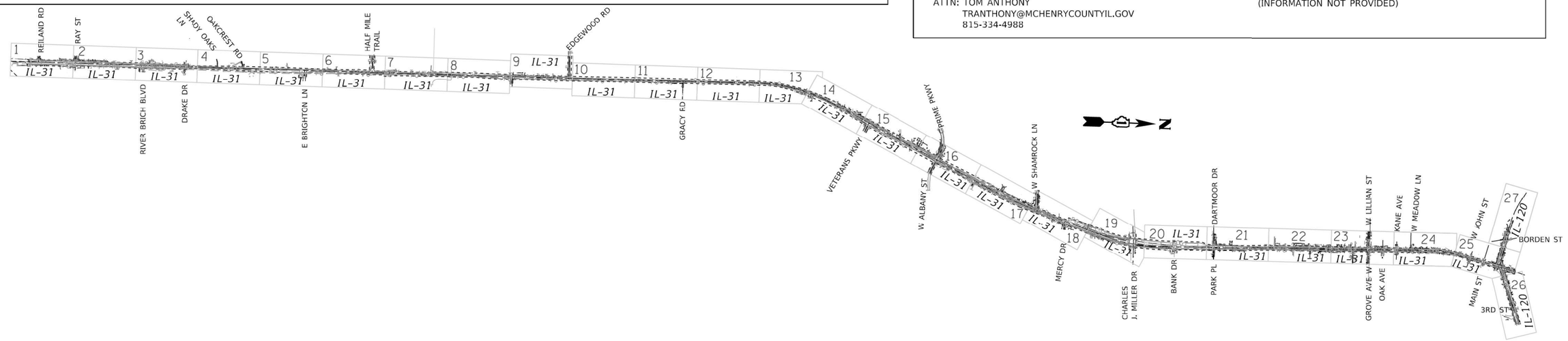
630-675-3794
INVESTIGATIONS TEAM
ASG.INVESTIGATIONSTEAM@ASGINC.US
INVESTIGATIONS@VERIZON.COM

USIC LOCATING SERVICES
(INFORMATION NOT PROVIDED)



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Accurate GROUP, INC.	USER NAME = jploquinto	DESIGNATED - LP/GM	REVISED -	
		DRAFTED - MA/JP	REVISED -	
		CHECKED - AB	REVISED -	
	PLOT DATE = 5/12/2023	DATE - 05/12/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSURFACE UTILITY ENGINEERING STUDY
IL 131 FROM IL 176 TO IL 120

SCALE: | SHEET OF SHEETS | STA. TO STA.

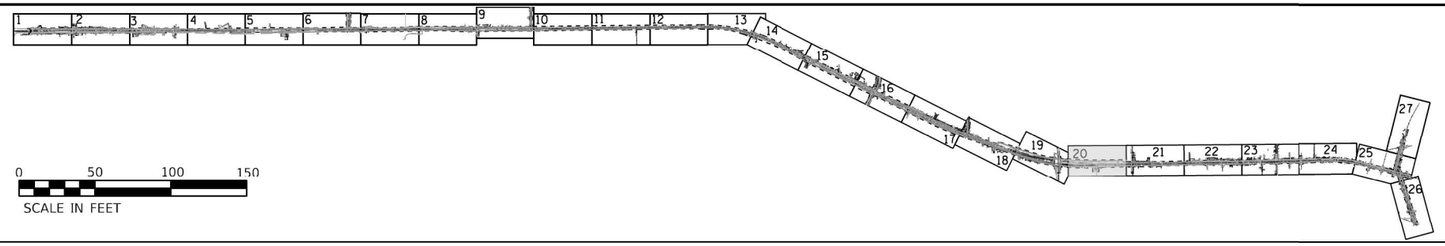
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	MCHENRY	575	295
		CONTRACT NO. 62U72		
	ILLINOIS FED. AID PROJECT WKBE(580)			

Accurate GROUP, INC.
WWW.ACCGI.COM
101 SCHELTER RD., SUITE B-200
LINCOLNSHIRE, ILLINOIS 60069
T (847) 613-1100 F (847) 613-1105
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184.002053

LEGEND

AERIAL
CABLE TV
ELECTRIC
FIBER OPTIC
GAS
TELEPHONE
WATER
SANITARY MAIN
STORM SEWER
QUALITY LEVEL D
UNKNOWN
PROJECT LIMITS

20



I, AHMEDI BEE, CERTIFY TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE UTILITY INFORMATION DEPICTED BY ACCURATE GROUP, INC. ON THIS PLAN SHEET WAS OBTAINED AND COMPILED UNDER MY DIRECT SUPERVISION USING ACCEPTED PRACTICES AND PROCEDURES.

DATE: 05/12/2023

AHMEDI BEE, PE
PROJECT ENGINEER: ACCURATE GROUP, INC.

AHMEDI BEE 062-072692 LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

N

MH- 62596
RIM ELEV.= 825.33
24" (N) INV = 818.41
12" (E) INV = 820.05
24" (S) INV = 818.31

INLET- 62386
RIM ELEV.= 827.53
12" (W) INV = 821.55

3 (2") CONDUIT
COMED
DEPTH = 44"

12" METALLIC
NICOR
DEPTH = 80"

MH- 62595
RIM ELEV.= 823.91
24" (N) INV = (UTR)
12" (E) INV = (UTR)
24" (S) INV = 817.96

INLET- 62380
RIM ELEV.= 825.30
12" (E) INV = 820.14
12" (W) INV = 820.52

INLET- 62384
RIM ELEV.= 826.18
12" (N) INV = 820.56
12" (E) INV = 820.84
12" (W) INV = 820.84

INLET- 62381
RIM ELEV.= 825.98
12" (S) INV = 820.18

INLET- 62382
RIM ELEV.= 825.97
12" (S) INV = 821.01

MH- 62594
RIM ELEV.=823.05
24" (N) INV = 817.91
12" (E) INV = 819.03
24" (S) INV = 817.87

INLET- 62374
RIM ELEV.= 824.95
12" (W) INV = DEEP
12" (N) INV = 820.35

INLET- 62373
RIM ELEV.= 824.82
12" (S) INV = 820.30

MH- 62369
RIM ELEV.= 823.07
12" (W) INV = 818.95
12" (E) INV = 818.63

MH- 62592
RIM ELEV.= 821.96
24" (N) INV = (UTR)
12" (E) INV = (UTR)
24" (S) INV = (UTR)

2" CONDUIT
COMCAST

INLET- 62370
RIM ELEV.= 823.84
12" (E) INV = 819.06
12" (W) INV = DEEP

INLET- 62366
RIM ELEV.= 821.73
12" (NW) INV = 817.87
12" (E) INV= 817.27

MHSS- 62591
RIM ELEV.= 820.77
24" (N) INV = 813.85
6" (E) INV = (UTR)

INLET- 62367
RIM ELEV.= 822.20
12" (E) INV = 817.76
12" (W) INV = 818.58

3 (2") CONDUIT
COMED
DEPTH = 52"

INLET- 62364
RIM ELEV.= 818.00
12" (NW) INV = 813.82
12" (E) INV = 813.56

MH- 62590
RIM ELEV.= 817.56
24" (N) INV = 813.26
12" (E) INV = (UTR)
24" (S) INV = (UTR)

CB- 62563
RIM ELEV.= 827.85
12" (E) INV = 822.55

MH- 71388
RIM ELEV.= 811.09

CB- 71387
RIM ELEV.= 805.09
12" (NE) INV = 803.47

MH- 62362
RIM ELEV.= 807.50
24" (N) INV = 794.80
24" (S) INV = 800.56
12" (W) INV = 800.28

MH- 71386
RIM ELEV.= 802.50
24" (N) INV = 791.02
12" (E) INV = (UTR)
24" (S) INV = 793.56

INLET- 62361
RIM ELEV.= 802.43
12" (NW) INV = 798.01
12" (E) INV = 797.75

12" METALLIC
NICOR
DEPTH = 89"

12" PE
CITY OF MCHENRY
DEPTH = 68"

MH- 62331
RIM ELEV.= 789.60
12" (NE) INV = (UTR)
12" (SE) INV = (UTR)

MH- 62360
RIM ELEV.= 796.16
24" (N) INV = 783.28
24" (S) INV = 787.52

MATCHLINE SEE SHEET 19

MATCHLINE SEE SHEET 21

IL-31

395+00 396 397 398 399 400+00 401 402 403 404 405+00 406 407 408

W/S

W/S

BANK DR

INLET- 62383
RIM ELEV.= 826.06
12" (N) INV = 820.96
12" (E) INV = (UTR)
12" (W) INV = 820.70

INLET- 62406
RIM ELEV.= 826.53
12" (W) INV = 820.93

2"
AT&T
DEPTH = 55"

2" METALLIC
NICOR
DEPTH = 57"

12"
CITY OF MCHENRY
DEPTH = 96"

MH- 62407
RIM ELEV.= 825.69
12" (E) INV = 821.91

INLET- 62372
RIM ELEV.= 823.67
12" (N) INV = 819.41
12" (W) INV = 819.09

INLET- 62371
RIM ELEV.= 823.57
12" (S) INV = 819.31

INLET- 62368
RIM ELEV.= 822.13
12" (N) INV = DEEP
12" (E) INV = DEEP
12" (W) INV = 817.99

INLET- 62375
RIM ELEV.= 822.10
12" (W) INV = 818.38

MHSS- 62376
RIM ELEV.= 821.21
12" (N) INV = 813.15
12" (S) INV = 813.19
12" (E) INV = 813.17

2" PE
NICOR
DEPTH = 48"

6"
PRIVATE
DEPTH = 60"

10" PE
CITY OF MCHENRY
DEPTH = 65"

INLET- 62377
RIM ELEV.= 818.14
12" (W) INV = 814.50

2" PE
NICOR
DEPTH = 38"

MHSS- 62378
RIM ELEV.= 816.44
12" (N) INV = 810.48
12" (S) INV = 810.44

INLET- 62379
RIM ELEV.= 811.4
12" (W) INV = 807.46

MHSS- 62332
RIM ELEV.= 810.00
12" (N) INV = 802.80
12" (S) INV = 804.44

INLET- 62333
RIM ELEV.= 807.5
12" (W) INV = 798.44

12" METALLIC
NICOR
DEPTH = 74"

2" PE
NICOR
DEPTH = 42"

MHSS- 62334
RIM ELEV.= 795.76
12" (N) INV = 789.70
12" (S) INV = 789.60

MH- 62335
RIM ELEV.= 795.05
15" (N) INV = 788.25
15" (S) INV = 791.05

MH- 62336
RIM ELEV.= 791.10
15" (N) INV = 786.02
15" (S) INV = 787.36

END OF MAIN

INLET- 62337
RIM ELEV.=789.65
12" (W) INV =785.59

MODEL: Default
FILE NAME: O:\Engineering\LiveProjects\21010 IDOT SUE\WO 517 518 IL 31 - 62K69\CADD\CACD Sheets\CivilSht=20.dgn

Accurate GROUP, INC.

USER NAME = jloquinto	DESIGNATED - LP/GM	REVISED -	
	DRAFTED - MA/JP	REVISED -	
	CHECKED - AB	REVISED -	
PLOT DATE = 5/12/2023	DATE - 05/12/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSURFACE UTILITY ENGINEERING STUDY
IL 31 FROM IL 176 TO IL 120

SCALE: | SHEET 20 OF 27 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	MCHENRY	575	296
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT WKBE(580)	

Accurate
GROUP, INC.

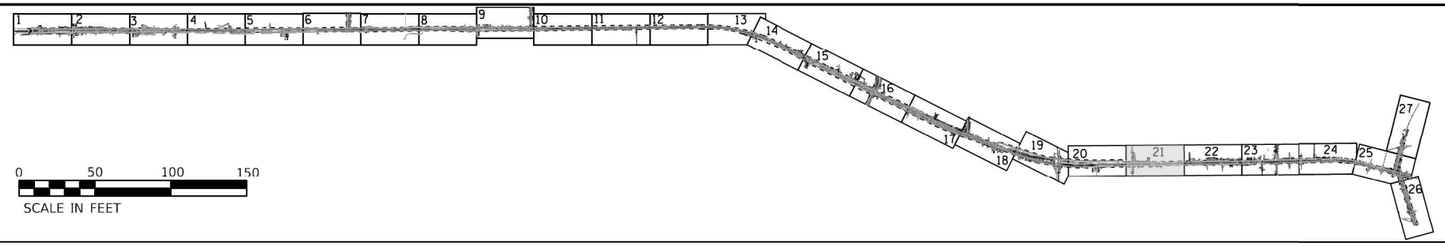
WWW.ACCGI.COM
101 SCHELTER RD., SUITE B-200
LINCOLNSHIRE, ILLINOIS 60069
T (847) 613-1100 F (847) 613-1105

ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184.002053

LEGEND

AERIAL — A — A — A — A
CABLE TV — CTV — CTV — CTV — CTV
ELECTRIC — E — E — E — E
FIBER OPTIC — FO — FO — FO — FO
GAS — G — G — G — G
TELEPHONE — T — T — T — T
WATER — W — W — W — W
SANITARY MAIN
STORM SEWER
QUALITY LEVEL D
UNKNOWN — UNK — UNK — UNK — UNK
PROJECT LIMITS

21



0 50 100 150
SCALE IN FEET

ILLINOIS PROFESSIONAL ENGINEER OF ILLINOIS
062-072692
AHMEDI...B.E.E.

I, AHMEDI BEE, CERTIFY TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE UTILITY INFORMATION DEPICTED BY ACCURATE GROUP, INC. ON THIS PLAN SHEET WAS OBTAINED AND COMPILED UNDER MY DIRECT SUPERVISION USING ACCEPTED PRACTICES AND PROCEDURES.

DATE: 05/12/2023

AHMEDI BEE, PE
PROJECT ENGINEER; ACCURATE GROUP, INC.

N

MH- 62330
RIM ELEV.= 789.12
12" (W) INV = (UTR)
12" (S) INV = (UTR)

MH- 62359
RIM ELEV.= 787.64
24" (E) INV = 782.00
24" (S) INV = (UTR)

MHSS- 62349
RIM ELEV.= 767.97
12" (N) INV = 760.33
12" (S) INV = 760.67

MH- 62328
RIM ELEV.= 788.72
18" (N) INV = 781.18
24" (S) INV = 782.20

3 (2") CONDUIT
COMED
DEPTH = 48"

COMED/
AT&T

12" PE
CITY OF MCHENRY
DEPTH = 64"

2"
AT&T
DEPTH = 36"

2" DBC
AT&T
DEPTH = 44"

4" CONDUIT
COMED
DEPTH = 38"

MH- 62327
RIM ELEV.= 780.44
24" (N) INV = 773.28
12" (E) INV = (UTR)
24" (S) INV = 775.94

3 (2") CONDUIT
COMCAST
DEPTH = 40"

12" METALLIC
CITY OF MCHENRY
DEPTH = 64"

DARTMOOR DR

66'

IL-31

409 410+00 411 412 413 414 415+00 416 417 418 419 420+00 421 422 423

W/S

E/S

G/S

100+00

101+00

102

PARK PL

MATCHLINE SEE SHEET 20

MATCHLINE SEE SHEET 22

3 PHASE
4" CONDUIT
COMED
DEPTH = 31"

CB- 62338
RIM ELEV.= 785.11
15" (N) INV = 779.37
15" (S) INV = 781.03

12" METALLIC
NICOR
DEPTH = 81"

CB- 62339
RIM ELEV.= 783.09
15" (N) INV = DEEP
15" (E) INV = DEEP
15" (S) INV = DEEP

INLET- 62342
RIM ELEV.= 780.84
15" (N) INV = 778.06
(SW) INV = DEEP

CB- 62341
RIM ELEV.= 781.32
12" (W) INV = 778.30

INLET- 62343
RIM ELEV.= 780.59
15" (N) INV = 773.43
15" (S) INV = 775.53

INLET- 62344
RIM ELEV.= 780.15
12" (NW) INV = 777.73

MHSS- 62340
RIM ELEV.= 783.36
12" (N) INV = 776.22
12" (E) INV = 776.26
12" (S) INV = 776.58
8" (S) INV = 779.28

CULV- 62588
15" (S) INV = 773.342

2" DBC
AT&T
DEPTH = 43"

1" DBC
COMCAST
DEPTH = 31"

CULV- 62345
15" (N) INV = 773.13

CULV- 62346
15" (S) INV = 772.48

MHSS- 62347
RIM ELEV.= 773.75
12" (N) INV = 767.27
12" (S) INV = 767.29

INLET- 62348
RIM ELEV.= 773.84
12" (W) INV = 770.76

AT&T
DEPTH = 36"

INLET- 62325
RIM ELEV.= 773.46
12" (E) INV = 769.58

MH- 62326
RIM ELEV.= 773.98
24" (N) INV = 764.82
24" (S) INV = 768.32
12" (W) INV = 769.26

3 (2") CONDUIT
COMED
DEPTH = 48"

MH- 62324
RIM ELEV.= 769.88
18" (N) INV = 764.72
12" (E) INV = 765.36
(S) INV = DEEP

MHSS- 62349
RIM ELEV.= 767.97
12" (N) INV = 760.33
12" (S) INV = 760.67

3" CONDUIT
COMED
DEPTH = 40"

CULV- 62352
26" (N) INV = 765.87

EOI COMCAST

MH- 62350
RIM ELEV.= 769
12" (N) INV = 760.22
12" (S) INV = 760.34

INLET 62351
RIM ELEV.= 769.73
12" (W) INV = 766.57

CULV- 62353
26" (S) INV = 765.65

COMED/COMCAST

MH- 62322
RIM ELEV.= 767.25
12" (N) INV = 763.59
12" (S) INV = (UTR)
12" (SE) INV = (UTR)

MH- 62323
RIM ELEV.= 767.39
12" (NW) INV = 764.09
12" (E) INV = 761.13

1" DBC
COMCAST
DEPTH = 61"

2" DBC
AT&T
DEPTH = 60"

INLET- 62354
RIM ELEV.= 767.2
12" (W) INV = 764.42

MH- 62319
RIM ELEV.= 767.10
24" (N) INV = 763.42
24" (S) INV = (UTR)
12" (SE) INV = (UTR)

INLET- 62320
RIM ELEV.= 766.68
12" (NW) INV = 763.34
12" (E) INV = 763.24

EOI
COMCAST

EOI
COMED

MH- 62356
RIM ELEV.= 766.62
36" (E) INV = 754.08
36" (W) INV = 754.40

MH- 62355
RIM ELEV.= 766.80
36" (E) INV = 754.44
36" (SW) INV = 754.28
12" (S) INV = 756.46

INLET- 62357
RIM ELEV.= 766.56
12" (N) INV = 763.72

12" METALLIC
CITY OF MCHENRY

3(3) CONDUIT
COMED
DEPTH = 36"

INLET- 62318
RIM ELEV.= 766.17
12" (E) INV = 763.31
12" (W) INV = 763.35

INLET- 62358
RIM ELEV.= 765.61
12" (W) INV = 762.77

12" METALLIC
NICOR
DEPTH = 67"

CULV- 62317
2X24 (E) INV = 762.41

MH- 62300
RIM ELEV.= 766.94
S INV = DEEP
12" (SE) INV = 763.06

INLET- 62301
RIM ELEV.= 766.39
12" (NW) INV = 763.31
12" (E) INV = 763.41

2" DBC
AT&T
DEPTH = 40"

INLET- 62302
RIM ELEV.= 766.46
12" (W) INV = 763.48

CULV- 62303
2X24 (W) INV = 762.24

MODEL: Default
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Accurate
GROUP, INC.

USER NAME = jploquinto	DESIGNED - LP/GM	REVISED -	
	DRAFTED - MA/JP	REVISED -	
	CHECKED - AB	REVISED -	
PLOT DATE = 5/12/2023	DATE - 05/12/2023	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSURFACE UTILITY ENGINEERING STUDY
IL 31 FROM IL 176 TO IL 120

SCALE: | SHEET 21 OF 27 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	MCHENRY	575	297
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT WKBE(580)	

Accurate
GROUP, INC.

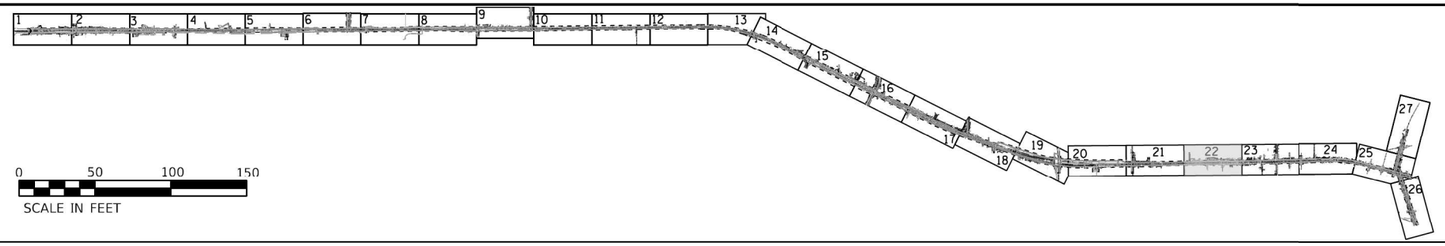
WWW.ACCGI.COM
101 SCHELTER RD., SUITE B-200
LINCOLNSHIRE, ILLINOIS 60069
T (847) 613-1100 F (847) 613-1105

ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184.002053

LEGEND

AERIAL
CABLE TV
ELECTRIC
FIBER OPTIC
GAS
TELEPHONE
WATER
SANITARY MAIN
STORM SEWER
QUALITY LEVEL D
UNKNOWN
PROJECT LIMITS

22



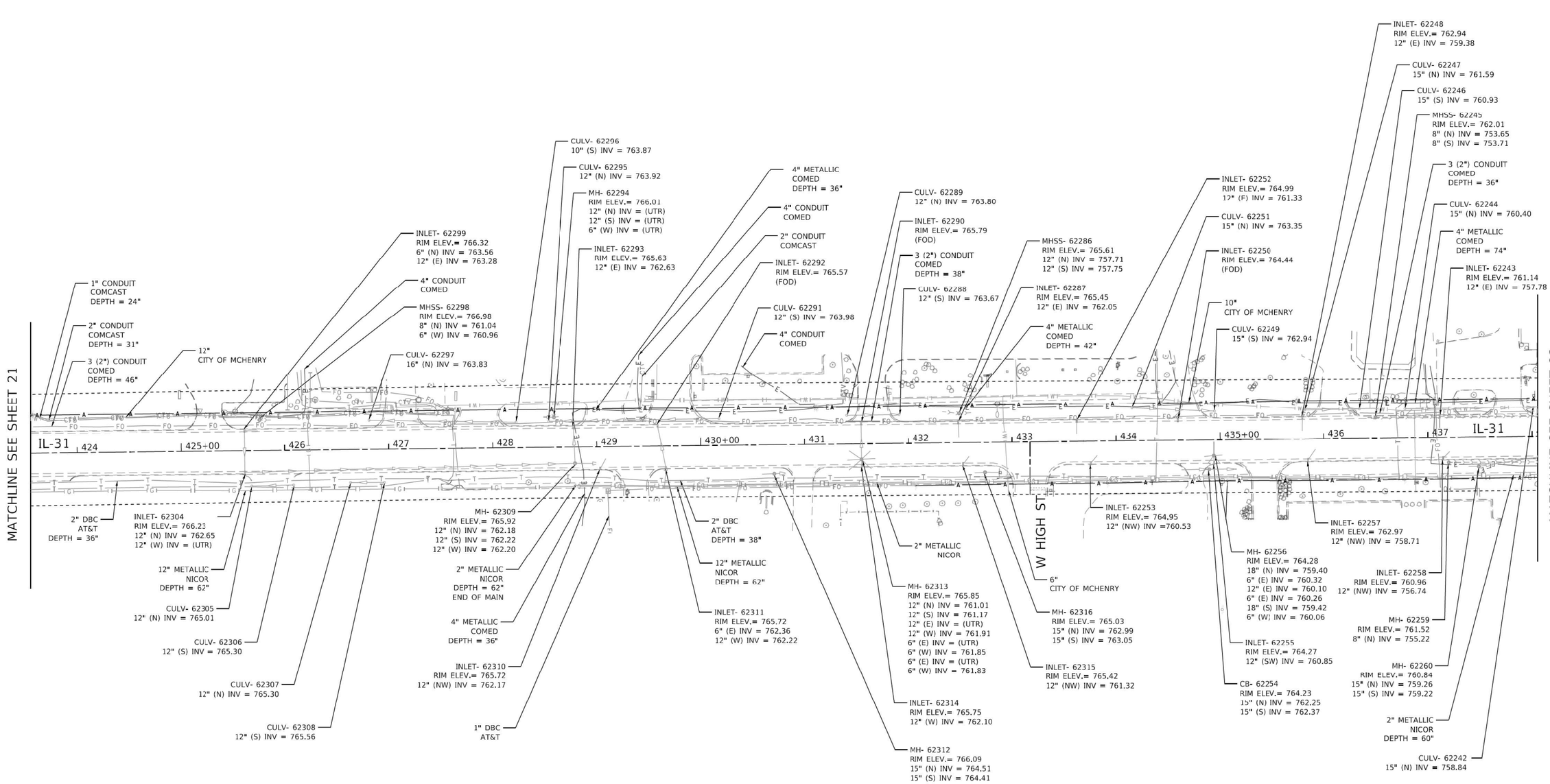
0 50 100 150
SCALE IN FEET

062-072692
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

I, AHMEDI BEE, CERTIFY TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE UTILITY INFORMATION DEPICTED BY ACCURATE GROUP, INC. ON THIS PLAN SHEET WAS OBTAINED AND COMPILED UNDER MY DIRECT SUPERVISION USING ACCEPTED PRACTICES AND PROCEDURES.

DATE: 05/12/2023

AHMEDI BEE, PE
PROJECT ENGINEER; ACCURATE GROUP, INC.



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USER NAME = jpioquinto	DESIGNATED - LP/GM	REVISED -	
	DRAFTED - MA/JP	REVISED -	
	CHECKED - AB	REVISED -	
PLOT DATE = 5/12/2023	DATE - 05/12/2023	REVISED -	

Accurate GROUP, INC.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSURFACE UTILITY ENGINEERING STUDY
IL 31 FROM IL 176 TO IL 120

SCALE: | SHEET 22 OF 27 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	MCHENRY	575	298
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT WKBE(580)	

Accurate
GROUP, INC.

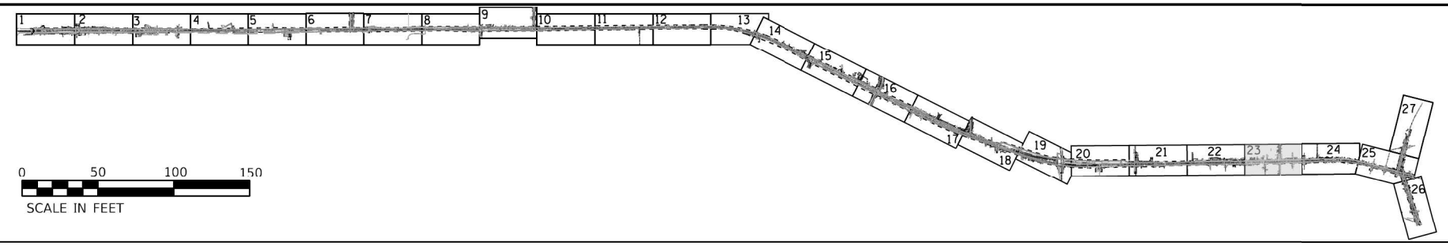
WWW.ACCGI.COM
101 SCHELTER RD., SUITE B-200
LINCOLNSHIRE, ILLINOIS 60069
T (847) 613-1100 F (847) 613-1105

ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184.002053

LEGEND

AERIAL — A — A — A — A
CABLE TV — CTV — CTV — CTV — CTV
ELECTRIC — E — E — E — E
FIBER OPTIC — FO — FO — FO — FO
GAS — G — G — G — G
TELEPHONE — T — T — T — T
WATER — W — W — W — W
SANITARY MAIN
STORM SEWER
QUALITY LEVEL D
UNKNOWN — UNK — UNK — UNK — UNK
PROJECT LIMITS

23



I, AHMEDI BEE, CERTIFY TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE UTILITY INFORMATION DEPICTED BY ACCURATE GROUP, INC. ON THIS PLAN SHEET WAS OBTAINED AND COMPILED UNDER MY DIRECT SUPERVISION USING ACCEPTED PRACTICES AND PROCEDURES.

DATE: 05/12/2023

AHMEDI BEE, PE
PROJECT ENGINEER; ACCURATE GROUP, INC.

NOTE 1: MH- 62283
RIM ELEV.= 754.88
6" (NE) INV = DEEP
12" (E) INV = 751.24
6" (E) INV = DEEP
12" (SE) INV = 749.92
6" (SW) INV = DEEP
12" (W) INV = DEEP
6" (NW) INV = DEEP
24" (N) INV = 750.08

NOTE 2: INLET- 62282
RIM ELEV.= 754.71
12" (SW) INV = 751.75

NOTE 3: MHSS- 62185
RIM ELEV.= 751.71
12" (N) INV = 746.53
12" (SE) INV = 746.61

NOTE 4: MH- 62180
RIM ELEV.= 754.52
15" (W) INV = 751.64
(E) INV = (FOW)

NOTE 5: CULV- 62183
15" (S) INV = 751.70

NOTE 6: INLET- 62171
RIM ELEV.= 753.85
12" (e) Inv = 751.59

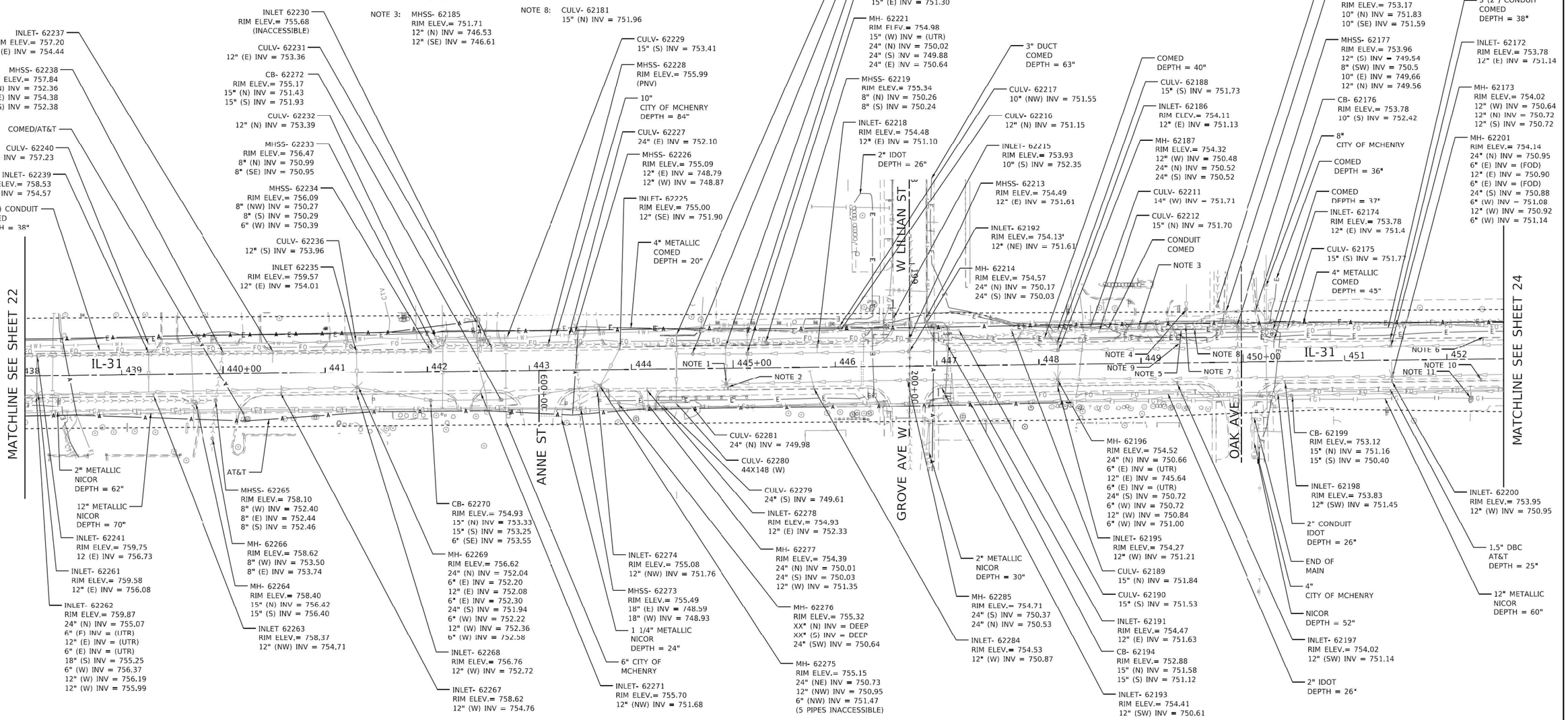
NOTE 7: CULV- 62182
10" (NW) INV = 752.36

NOTE 8: CULV- 62181
15" (N) INV = 751.96

NOTE 9: INLET- 62184
RIM ELEV.= 753.91
12" (W) INV = 751.23

NOTE 10: INLET- 62203
RIM ELEV.= 753.80
12" (SW) INV = 751.44

NOTE 11: CB- 62202
RIM ELEV.= 752.72
12" (W) INV = 751.52



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USER NAME = jploquinto	DESIGNATED - LP/GM	REVISED -	
	DRAFTED - MA/JP	REVISED -	
	CHECKED - AB	REVISED -	
PLOT DATE = 5/12/2023	DATE - 05/12/2023	REVISED -	

Accurate GROUP, INC.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBSURFACE UTILITY ENGINEERING STUDY
IL 31 FROM IL 176 TO IL 120

SCALE: | SHEET 23 OF 27 SHEETS | STA. | TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	MCHENRY	575	299
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT WKBE(580)	

Accurate
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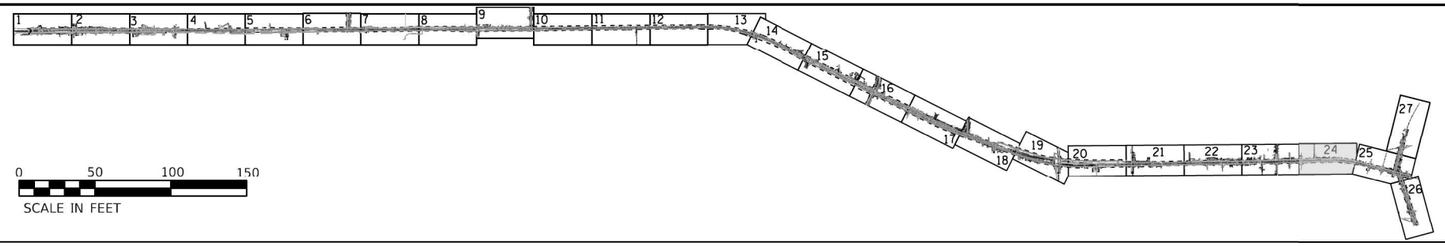
101 SCHELTER RD., SUITE B-200
LINCOLNSHIRE, ILLINOIS 60069
T (847) 613-1100 F (847) 613-1105

ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184.002053

LEGEND

AERIAL
CABLE TV
ELECTRIC
FIBER OPTIC
GAS
TELEPHONE
WATER
SANITARY MAIN
STORM SEWER
QUALITY LEVEL D
UNKNOWN
PROJECT LIMITS

24



062-072692
LICENSED PROFESSIONAL ENGINEER OF ILLINOIS

I, AHMEDI BEE, CERTIFY TO THE ILLINOIS DEPARTMENT OF TRANSPORTATION THAT TO THE BEST OF MY KNOWLEDGE, INFORMATION, AND BELIEF, THE UTILITY INFORMATION DEPICTED BY ACCURATE GROUP, INC. ON THIS PLAN SHEET WAS OBTAINED AND COMPILED UNDER MY DIRECT SUPERVISION USING ACCEPTED PRACTICES AND PROCEDURES.

DATE: 05/12/2023

AHMEDI BEE, PE
PROJECT ENGINEER; ACCURATE GROUP, INC.

NOTE 1: INLET- 62101
RIM ELEV.= 755.75
12" (NW) INV = 753.03

NOTE 2: CB- 62102
RIM ELEV.= 755.58
12" (SE) INV = 752.62
12" (S) INV = 752.68

NOTE 3: MH- 62095
RIM ELEV.= 755.15
6" (E) INV = 749.45
12" (N) INV = 748.61
12" (S) INV = 748.55

NOTE 4: INLET- 62094
RIM ELEV.= 754.96
12" (W) INV = 752.58

NOTE 5: INLET- 62096
RIM ELEV.= 755.09
12" (SW) INV = 752.17

NOTE 6: CULV- 62097
12" (SW) INV = 753.38

