

FOR INDEX OF SHEETS, SEE SHEET NO. 3

PROJECT LOCATED IN THE CITY OF MCHENRY.

TRAFFIC DATA	ADT 2023 / 2050	SPEED DESIGN / POSTED
ILLINOIS ROUTE 31		
MILLER ROAD TO PARK PL	17,600 / 31,800	45 / 45
PARK PL TO ANNE ST	17,600 / 31,800	40 / 40
ANNE ST TO MEADOW LN	17,600 / 31,800	35 / 35
MEADOW LN TO IL ROUTE 120	17,600 / 31,800	35 / 30

ILLINOIS ROUTE 120		
BORDEN ST TO IL ROUTE 31	25,900 / 29,400	35 / 30
IL ROUTE 31 TO THIRD ST	30,300 / 46,400	35 / 30

DESIGN DESIGNATION
ILLINOIS ROUTE 31 – OTHER PRINCIPAL ARTERIAL
ILLINOIS ROUTE 120 – OTHER PRINCIPAL ARTERIAL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

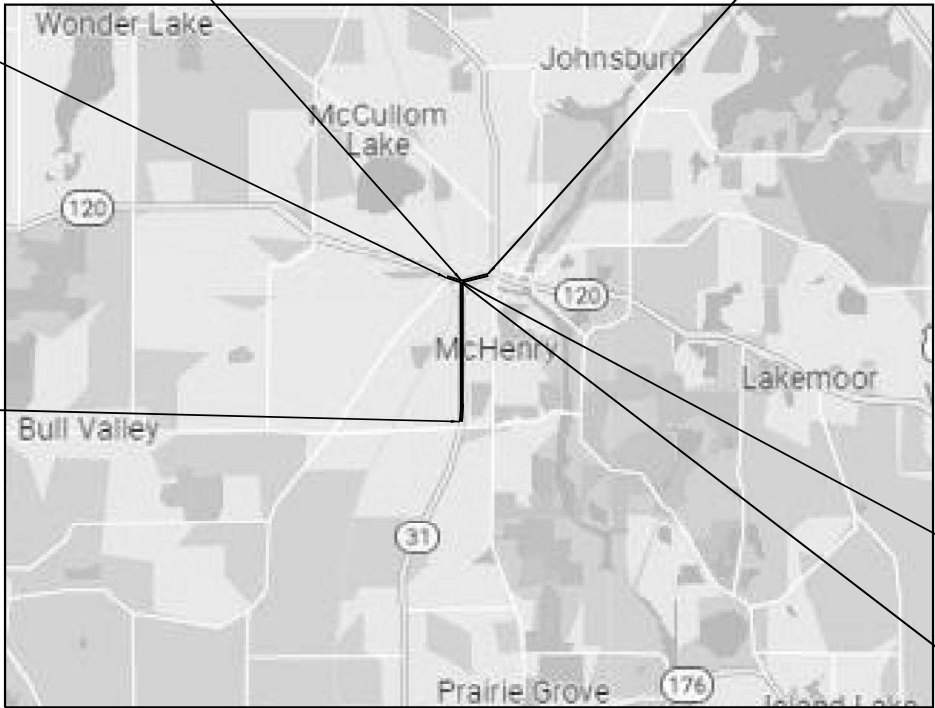
PROPOSED
HIGHWAY PLANS
FAP ROUTE 336A: ILLINOIS ROUTE 31
NORTH OF BULL VALLEY ROAD
TO ILLINOIS ROUTE 120
SECTION FAP 336 23 RECON NORTH
PROJECT NO.: NHPP-LNAO(132)
ROADWAY RECONSTRUCTION
MCHENRY COUNTY
C-91-120-23

FRONT STREET
END PROJECT
STA 480 + 60

ILLINOIS ROUTE 120
PROJECT LIMIT
STA 312 + 11.39

ILLINOIS ROUTE 120
PROJECT LIMIT
STA 291 + 94

ILLINOIS ROUTE 31
BEGIN PROJECT
STA 397 + 00



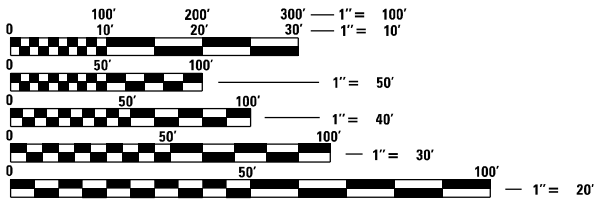
STA. 478 + 02.87 (FRONT ST) =
STA. 299 + 92.32 (IL RTE 120)

STA. 478 + 04.24 (IL RTE 31) =
STA. 300 + 00.00 (IL RTE 120)

LOCATION MAP

GROSS LENGTH = 8,360 FT = 1.58 MILE

NET LENGTH = 8,360 FT = 1.58 MILE

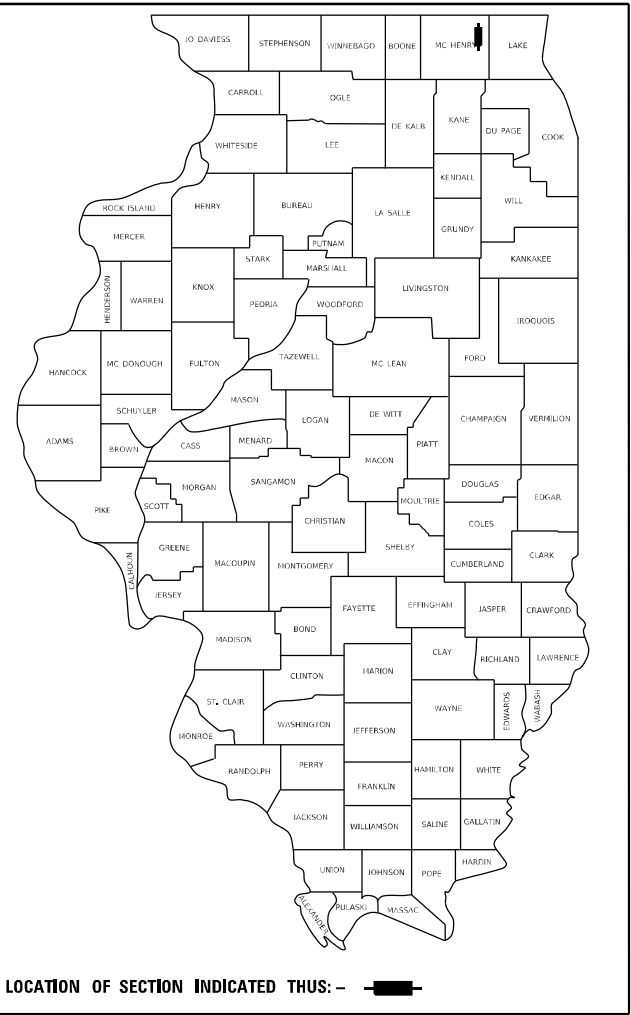


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
JULIEBEFOREYOU.DIG.COM
1-800-892-0123
OR 811

PROJECT MANAGER – DARPIT SHAH, P.E.
PROJECT ENGINEER – VANESSA FRANCENE CECICH
CONTRACT NO. 62U72

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	MCHNERY	575	1
ILLINOIS		CONTRACT NO. 62U72		
D-91-366-20				
* 575 + 6 = 781 TOTAL SHEETS				



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED: March 5th 2026
Joe Rios

May 8 2026
Scott A. Etkin
REGIONAL ENGINEER
ENGINEER OF DESIGN AND ENVIRONMENT

May 8 2026
John P. Barry
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

REV-SEP

2 REVISED SHEET 6/02/2026

FOR PROFESSIONAL ENGINEER SEALS, SEE SHEET 2



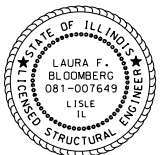
PATRICK ENGINEERING, INC.



Kenneth Eng

KENNETH ENG, P.E.
NO. 062-048871
EXP. DATE: 11/30/27
APPLY TO DRAWINGS: 1-51, 56-170,
295-345, 467-574

PATRICK ENGINEERING, INC.



Laura F. Bloomberg

LAURA BLOOMBERG, P.E., S.E.
NO. 081-007649
EXP. DATE: 11/30/26
APPLY TO DRAWINGS: 263, 431-466

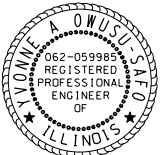
PATRICK ENGINEERING, INC.



Sahmed

SOPHIA AHMED, P.E.
NO. 062-066696
EXP. DATE: 11/30/27
APPLY TO DRAWINGS: 263-294

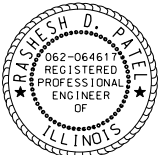
TRANSLAND ENGINEERING GROUP, LLC



Yvonne Owusu-Safo

YVONNE-A OWUSU-SAFO, P.E.
NO. 062-059985
EXP. DATE: 11/30/27
APPLY TO DRAWINGS: 52-55, 206-225

SINGH & ASSOCIATES, INC.



R.D. Patel

RASHESH D. PATEL P.E.
NO. 062-064617
EXP. DATE: 11/30/27
APPLY TO DRAWINGS: 404-430

SINGH & ASSOCIATES, INC.



Jillyn K O'Shea

JILLYN K. O'SHEA P.E.
NO. 062-054974
EXP. DATE: 11/30/27
APPLY TO DRAWINGS: 346-355

HEY AND ASSOCIATES, INC.



Patrick Lach

PATRICK LACH, P.E.
NO. 062-058745
EXP. DATE: 11/30/27
APPLY TO DRAWINGS: 356-368

PERALTE-CLARK, LLC

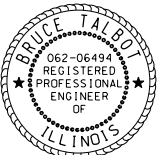


Jennifer Morales

JENNIFER S. MORALES, P.E.
NO. 062-059182
EXP. DATE: 11/30/27
APPLY TO DRAWINGS: 171-205

1

PERALTE-CLARK, LLC



Bruce P. Talbot

BRUCE TALBOT, P.E.
NO. 062-06494
EXP. DATE: 11/30/27
APPLY TO DRAWINGS: 369-403

H.R. GREEN



Theodore Hamilton

THEODORE E. HAMILTON, P.E.
NO. 062-049143
EXP. DATE: 11/30/27
APPLY TO DRAWINGS: 226-262

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USER NAME	= CD012	DESIGNED	-	REVISED	-	 5/19/2026
		DRAWN	-	REVISED	-	
PLOT SCALE	= 100,0000 ' / in.	CHECKED	- KE	REVISED	-	
PLOT DATE	= 5/19/2026	DATE	- 1/9/2026	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROFESSIONAL SEALS

SCALE: NTS SHEET OF SHEETS STA. TO STA.

 REVISED SHEET 6/03/2026

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	2
CONTRACT NO.			62U72	
		ILLINOIS	FED. AID PROJECT	

IDOT DISTRICT ONE STANDARDS

BD-01	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER > = 15' (4.5 m)
BD-02	DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB < 15' (4.5 m)
BD-07	DETAIL OF STORM SEWER CONNECTION TO EXISTING SEWER
BD-08	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD-24	CURB OR CURB GUTTER REMOVAL AND REPLACEMENT
BD-32	BUTT JOINT AND HMA TAPER DETAILS
BD-36	FIRE HYDRANT TO BE MOVED
BD-51	BENCHING DETAIL FOR EMBANKMENT WIDENING
BD-52	DETAIL OF PAVEMENT SEPARATION - JOINT FOR JOINTED PCC PAVEMENTS AT INTERSECTIONS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-14	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)
TC-16	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TC-26	DRIVEWAY ENTRANCE SIGNING
TS-02	MAST ARM MOUNTED STREET NAME SIGNS
TS-03	HANDHOLE TO INTERCEPT EXISTING CONDUIT
TS-04	FLASHING BEACON INSTALLATION DETAILS
TS-05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-07	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

IDOT STANDARDS

000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-11	PAVEMENT JOINTS
420101-07	24' (7.2 M) JOINTED PCC PAVEMENT
420106-07	36' (10.8 M) JOINTED PCC PAVEMENT
420111-04	PCC PAVEMENT ROUNDOUTS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-05	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424026-03	ENTRANCE / ALLEY PEDESTRIAN CROSSING
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
602001-02	CATCH BASIN TYPE A
602301-04	INLET - TYPE A
602401-07	PRECAST MANHOLE, TYPE A, 4' (1.22 m) DIAMETER
602402-03	PRECAST MANHOLE, TYPE A, 5' (1.52 m) DIAMETER
602406-11	PRECAST MANHOLE, TYPE A, 6' (1.83 m) DIAMETER
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS, TYPE 1
604036-03	GRATE, TYPE 8
604091-04	FRAME AND GRATE, TYPE 24
606006-04	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
606306-04	CORRUGATED PC CONCRETE MEDIANS
664001-02	CHAIN LINK FENCE
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701336-07	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS GREATER THAN OR EQUAL TO 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS LESS THAN OR EQUAL TO 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701601-09	URBAN SINGLE LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W, WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
729001-01	APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS AND MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL RELFECTOR MOUNTING DETAILS



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2 REVISD SHEET 6/03/2026

	USER NAME = CD012	DESIGNED - KE	REVISED - 5/29/2026	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HIGHWAY STANDARDS			F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - BAW	REVISED -					336A	FAP 336 23 RECON NORTH	McHENRY	575	4
	PLOT SCALE = 100.0000' / in.	CHECKED - KE	REVISED -					CONTRACT NO. 62U72				
	PLOT DATE = 5/29/2026	DATE - 04/30/2024	REVISED -		SCALE: NTS	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	

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SP **	SI *	ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	ROADWAY LIGHTING	BRIDGE	SANITARY SEWER AND WATERMAIN		EMERGENCY VEHICLE PREEMPTION		INTERCONNECT	TRAFFIC SIGNALS 0021		90/10 STATE ITEP / CITY FUNDED	90/10 STATE ITEP / CITY FUNDED
						0003	0021	0004	0043	0043	0021	0021	0021	0021	0021	0028	0028
		30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	28,970	80% FED 20% STATE	ITEP 75% STATE 25% CITY OF MCHENRY	80% FED 20% STATE	100% CITY OF MCHENRY	80% FED 20% STATE	100% MCHENRY TOWNSHIP FIRE PROTECTION DISTRICT	100% MCHENRY TOWNSHIP FIRE PROTECTION DISTRICT	80% FED 20% STATE	80% FED 10% STATE 10% CITY OF MCHENRY	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
		30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	68,034	68,034											
		31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	11,842	11,842	2										
		31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	13,373											9,634	3,739
		35102000	AGGREGATE BASE COURSE, TYPE B 8"	SQ YD	53	53											
		35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	353	353											
		35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	7,747	7,747											
		40200900	AGGREGATE SURFACE COURSE, TYPE B	CU YD	29												
		40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	13,111	4,698											8,413
		40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	2,251	1,410											841
		40600370	LONGITUDINAL JOINT SEALANT	FOOT	2,012	2,012											
		40603080	HOT-MIX ASPHALT BINDER COURSE, 1L-19.0, N50	TON	524												524
		40604060	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N50	TON	1,228	913											315
		40701821	HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 7"	SQ YD	2,293	2,293											

2

REVISED SHEET 6/03/2026



USER NAME = CD012	DESIGNED - EJB	REVISED -
	DRAWN - EJB	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - KE	REVISED -
PLOT DATE = 3/4/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 3 OF 26 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	MCHENRY	575	8
CONTRACT NO. 62U72				
		ILLINOIS	FED. AID PROJECT	

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SP **	SI *	ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	ROADWAY LIGHTING	BRIDGE	SANITARY SEWER AND WATERMAIN		EMERGENCY VEHICLE PREEMPTION			TRAFFIC SIGNALS 0021		90/10 STATE ITEP / CITY FUNDED	90/10 STATE ITEP / CITY FUNDED
						0003	0021	0004	0043	0043	IL 31 AT LILLIAN STREET / GROVE AVENUE	IL 31 AT ILLINOIS ROUTE 120	INTERCONNECT	IL 31 AT LILLIAN STREET / GROVE AVENUE	IL 31 AT ILLINOIS ROUTE 120		
						80% FED 20% STATE	ITEP 75% STATE 25% CITY OF MCHENRY	80% FED 20% STATE	100% CITY OF MCHENRY	80% FED 20% STATE	100% MCHENRY TOWNSHIP FIRE PROTECTION DISTRICT	100% MCHENRY TOWNSHIP FIRE PROTECTION DISTRICT	80% FED 20% STATE	80% FED 10% STATE 10% CITY OF MCHENRY	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
		50105220	PIPE CULVERT REMOVAL	FOOT	117	117											
		50200100	STRUCTURE EXCAVATION	CU YD	642			642									
		50200300	COFFERDAM EXCAVATION	CU YD	1,646			1,646									
		50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	68	68											
		50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1			1									
		50201122	COFFERDAM (TYPE 2) (LOCATION - 2)	EACH	1			1									
		50300225	CONCRETE STRUCTURES	CU YD	264.2			264.2									
		50300255	CONCRETE SUPERSTRUCTURE	CU YD	728.2			728.2									
		50300260	BRIDGE DECK GROOVING	SQ YD	1,064			1,064									
		50300265	SEAL COAT CONCRETE	CU YD	186			186									
		50300300	PROTECTIVE COAT	SQ YD	1,697			1,697									
		50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	225.5			225.5									
		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	303,880			303,880									
		50800515	BAR SPLICERS	EACH	606			606									



USER NAME = CD012	DESIGNED - EJB	REVISED -
	DRAWN - EJB	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - KE	REVISED -
PLOT DATE = 3/4/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 5 OF 26 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	MCHENRY	575	10
CONTRACT NO. 62U72				
		ILLINOIS	FED. AID PROJECT	

△ REVISD SHEET 6/03/2026

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SP **	SI *	ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	ROADWAY LIGHTING	BRIDGE	SANITARY SEWER AND WATERMAIN		EMERGENCY VEHICLE PREEMPTION		INTERCONNECT	TRAFFIC SIGNALS 0021		90/10 STATE ITEP / CITY FUNDED	90/10 STATE ITEP / CITY FUNDED
						0003	0021	0004	0043	0043	IL 31 AT LILLIAN STREET / GROVE AVENUE	IL 31 AT ILLINOIS ROUTE 120	0021	IL 31 AT LILLIAN STREET / GROVE AVENUE	IL 31 AT ILLINOIS ROUTE 120	0028	0028
	*	50900105	ALUMINUM RAILING, TYPE L	FOOT	260			260									
	*	50901720	BICYCLE RAILING	FOOT	133	133		147	△								
	*	51200957	FURNISHING METAL SHELL PILES 12" X 0.250"	FOOT	864			864									
	*	51200959	FURNISHING METAL SHELL PILES 14" X 0.312"	FOOT	1,404			1,404									
	*	51202305	DRIVING PILES	FOOT	2,268			2,268									
	*	51203200	TEST PILE METAL SHELLS	EACH	4			4									
	*	51204650	PILE SHOES	EACH	52			52									
	*	51500100	NAME PLATES	EACH	2			2									
	*	52200010	TEMPORARY SHEET PILING	SQ FT	1,901			1,901									
		52200900	CONCRETE STRUCTURES (RETAINING WALL)	CU YD	120			120									
		54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	2											
		54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	1	1											
		54001003	BOX CULVERT END SECTIONS, CULVERT NO. 3	EACH	1	1											
		54001004	BOX CULVERT END SECTIONS, CULVERT NO. 4	EACH	1	1											

△ REVISED SHEET 6/03/2026



USER NAME = CD012	DESIGNED - EJB	REVISED -
	DRAWN - EJB	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - KE	REVISED -
PLOT DATE = 3/4/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 6 OF 26 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	11
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	

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SP **	SI *	ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	ROADWAY LIGHTING	BRIDGE	SANITARY SEWER AND WATERMAIN		EMERGENCY VEHICLE PREEMPTION		INTERCONNECT	TRAFFIC SIGNALS 0021		90/10 STATE ITEP / CITY FUNDED	90/10 STATE ITEP / CITY FUNDED
						0003 80% FED 20% STATE	0021 ITEP 75% STATE 25% CITY OF MCHENRY	0004 80% FED 20% STATE	0043 100% CITY OF MCHENRY	0043 80% FED 20% STATE	0021 IL 31 AT LILLIAN STREET / GROVE AVENUE 100% MCHENRY TOWNSHIP FIRE PROTECTION DISTRICT	0021 IL 31 AT ILLINOIS ROUTE 120 100% MCHENRY TOWNSHIP FIRE PROTECTION DISTRICT	0021 80% FED 20% STATE	0021 IL 31 AT LILLIAN STREET / GROVE AVENUE 80% FED 10% STATE 10% CITY OF MCHENRY	0021 IL 31 AT ILLINOIS ROUTE 120 80% FED 20% STATE	0028 80% FED 20% STATE	0028 80% FED 20% STATE
		60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	215	215											
		60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	19,829	19,829											
		60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	249	249											
		60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SQ FT	6,017	6,017											
		60619600	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	6,418	6,418											
		60620000	CONCRETE MEDIAN, TYPE SB-6.24	SQ FT	8,664	8,664											
	*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	50	50											
	*	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	1											
	*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1											
		63200310	GUARDRAIL REMOVAL	FOOT	273	273											
		66400305	CHAIN LINK FENCE, 6'	FOOT	1,339	1,339											
**	*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	32,200	32,200											
		66407600	CHAIN LINK GATES, 6' X 12' DOUBLE	EACH	2	2											
**	*	66900400	SPECIAL WASTE GROUNDWATER DISPOSAL	GALLON	TBD												
**	*	66900530	SOIL DISPOSAL ANALYSIS	EACH	16	16											
**	*	66901000	BACKFILL PLUGS	CU YD	TBD												



USER NAME = CD012	DESIGNED - EJB	REVISED -
DRAWN - EJB	REVISED -	
PLOT SCALE = 100,0000 ' / in.	CHECKED - KE	REVISED -
PLOT DATE = 3/4/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 14 OF 26 SHEETS STA. TO STA.

REVISED SHEET 6/03/2026

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	MCHENRY	575	19
CONTRACT NO. 62U72				
ILLINOIS		FED. AID PROJECT		

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SP **	SI *	ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	ROADWAY LIGHTING	BRIDGE	SANITARY SEWER AND WATERMAIN		EMERGENCY VEHICLE PREEMPTION			TRAFFIC SIGNALS 0021		90/10 STATE ITEP / CITY FUNDED	90/10 STATE ITEP / CITY FUNDED
						0003 80% FED 20% STATE	0021 ITEP 75% STATE 25% CITY OF MCHENRY	0004 80% FED 20% STATE	0043 100% CITY OF MCHENRY	0043 80% FED 20% STATE	0021 IL 31 AT LILLIAN STREET / GROVE AVENUE	0021 IL 31 AT ILLINOIS ROUTE 120	0021 INTERCONNECT	0021 IL 31 AT LILLIAN STREET / GROVE AVENUE	0021 IL 31 AT ILLINOIS ROUTE 120	0028	0028
**	*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1											
**	*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1											
**	*	66901005	ENGINEERED BARRIER	SQ YD	2,070	2,070											
**	*	66901006	REGULATED SUBSTANCES MONITORING	CAL DA	400	400											
		67100100	MOBILIZATION	L SUM	1	1											
		70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	913	913											
		70107025	CHANGEABLE MESSAGE SIGN	CAL DA	3,652	3,652											
		70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	29,915	29,915											
		70303100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - MODIFIED URETHANE	SQ FT	3,142	3,142											
		70303120	TEMPORARY PAVEMENT MARKING - LINE 4" - MODIFIED URETHANE	FOOT	212,485	212,485											
		70303130	TEMPORARY PAVEMENT MARKING - LINE 6" - MODIFIED URETHANE	FOOT	19,556	19,556											
		70303160	TEMPORARY PAVEMENT MARKING - LINE 12"- MODIFIED URETHANE	FOOT	333	333											
		70303210	TEMPORARY PAVEMENT MARKING - LINE 24"- MODIFIED URETHANE	FOOT	2,841	2,841											
		70307100	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE	SQ FT	3,142	3,142											

SUMMARY OF QUANTITIES										F.A. P RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
										336A	FAP 336 23 RECON NORTH		MCHENRY	575	20	
															CONTRACT NO.	
SCALE: NTS			SHEET 15		OF 26	SHEETS	STA.			TO STA.						
										ILLINOIS		FED. AID PROJECT				
										336A		FAP 336 23 RECON NORTH		MCHENRY	575	20
										CONTRACT NO.					62U72	

 REVISED SHEET 6/02/2026

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SP **	SI *	ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	ROADWAY LIGHTING	BRIDGE	SANITARY SEWER AND WATERMAIN		EMERGENCY VEHICLE PREEMPTION		INTERCONNECT	TRAFFIC SIGNALS 0021		90/10 STATE ITEP / CITY FUNDED	90/10 STATE ITEP / CITY FUNDED
						0003 80% FED 20% STATE	0021 ITEP 75% STATE 25% CITY OF MCHENRY	0004 80% FED 20% STATE	0043 100% CITY OF MCHENRY	0043 80% FED 20% STATE	0021 IL 31 AT LILLIAN STREET / GROVE AVENUE 100% MCHENRY TOWNSHIP FIRE PROTECTION DISTRICT	0021 IL 31 AT ILLINOIS ROUTE 120 100% MCHENRY TOWNSHIP FIRE PROTECTION DISTRICT	0021 80% FED 20% STATE	0021 IL 31 AT LILLIAN STREET / GROVE AVENUE 10% STATE 10% CITY OF MCHENRY	0021 IL 31 AT ILLINOIS ROUTE 120 80% FED 20% STATE	0028 80% FED 20% STATE	0028 80% FED 20% STATE
	*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	10	10											
	*	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	1,781	1,781	2										
	*	72900100	METAL POST - TYPE A	FOOT	12	12											
	*	72900200	METAL POST - TYPE B	FOOT	67	67											
	*	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	94	94											
	*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1,144	1,144											
	*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	370	370											
	*	78004635	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - STANDARD - LINE 7"	FOOT	4,260	4,260											
	*	78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,908	1,908	2										
	*	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	19,064	19,064											
	*	78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	5,747	5,747											
	*	78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	979	979	2										
	*	78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	5,313	5,313											
	*	78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	678	678											

2 REVISED SHEET 6/03/2026



USER NAME = CD012	DESIGNED - EJB	REVISED -
	DRAWN - EJB	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - KE	REVISED -
PLOT DATE = 3/20/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 17 OF 26 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	MCHENRY	575	22
CONTRACT NO. 62U72				
ILLINOIS		FED. AID PROJECT		

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SP **	SI *	ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	ROADWAY LIGHTING	BRIDGE	SANITARY SEWER AND WATERMAIN		EMERGENCY VEHICLE PREEMPTION		INTERCONNECT	TRAFFIC SIGNALS 0021		90/10 STATE ITEP / CITY FUNDED	90/10 STATE ITEP / CITY FUNDED
						0003	0021	0004	0043	0043	0021	0021	0021	0021	0021	0028	0028
						80% FED 20% STATE	ITEP 75% STATE 25% CITY OF MCHENRY	80% FED 20% STATE	100% CITY OF MCHENRY	80% FED 20% STATE	100% MCHENRY TOWNSHIP FIRE PROTECTION DISTRICT	100% MCHENRY TOWNSHIP FIRE PROTECTION DISTRICT	80% FED 20% STATE	80% FED 10% STATE 10% CITY OF MCHENRY	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE
	*	84200600	REMOVAL OF LIGHTING UNIT, NO SALVAGE	EACH	13		13										
	*	84200804	REMOVAL OF POLE FOUNDATION	EACH	13		13										
	*	84400105	RELOCATE EXISTING LIGHTING UNIT	EACH	10		10										
	*	84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	2		2										
	*	84500120	REMOVAL OF ELECTRIC SERVICE INSTALLATION	EACH	2		2										
	*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2								2				
	*	85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	6										6		
		85100600	PAINT NEW MAST ARM AND POLE, UNDER 40 FOOT	EACH	1										1		
	*	85100800	PAINT NEW COMBINATION MAST ARM AND POLE, UNDER 40 FOOT	EACH	1										1		
	*	85100901	PAINT NEW COMBINATION MAST ARM AND POLE, 40 FOOT AND OVER	EACH	1										1		
		85100701	PAINT NEW MAST ARM AND POLE, 40 FOOT AND OVER	EACH	4										4		
	*	87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	12,754								12,754				
	*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	3,523									972	2,551		
	*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	4,665									1,314	3,351		
	*	87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	3,911									1,266	2,645		
	*	87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	3,136									955	2,181		



USER NAME = CD012	DESIGNED - EJB	REVISED -
	DRAWN - EJB	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - KE	REVISED -
PLOT DATE = 3/20/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 20 OF 26 SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	MCHENRY	575	25
CONTRACT NO. 62U72				
ILLINOIS		FED. AID PROJECT		

△2 REVISED SHEET 6/02/2026

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SP **	SI *	ITEM NO.	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	ROADWAY LIGHTING	BRIDGE	SANITARY SEWER AND WATERMAIN		EMERGENCY VEHICLE PREEMPTION			TRAFFIC SIGNALS 0021		90/10 STATE ITEP / CITY FUNDED	90/10 STATE ITEP / CITY FUNDED
						0003	0021	0004	0043	0043	IL 31 AT LILLIAN STREET / GROVE AVENUE	IL 31 AT ILLINOIS ROUTE 120	INTERCONNECT	IL 31 AT LILLIAN STREET / GROVE AVENUE	IL 31 AT ILLINOIS ROUTE 120	0028	0028
		Z0056622	STORM SEWER (WATER MAIN REQUIREMENTS) 36 INCH	FOOT	80	80											
		Z0056626	STORM SEWER (WATER MAIN REQUIREMENTS) 48 INCH	FOOT	21	21											
**		Z0056800	SANITARY SEWER 6"	FOOT	291				205	86							
**		Z0056900	SANITARY SEWER 8"	FOOT	1,285				1,285								
**		Z0057000	SANITARY SEWER 10"	FOOT	49				49								
**		Z0057100	SANITARY SEWER 12"	FOOT	2,096				1,796	300							
		Z0062456	TEMPORARY PAVEMENT	SQ YD	8,589	8,589											
		Z0073345	SLEEPER SLAB	FOOT	1,947	1,947	2										
**	Ø	Z0076600	TRAINEES	HOOR	2,000	2,000											
**	Ø	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOOR	2,000	2,000											
**		X5610013	REMOVE EXISTING WATERMAIN	FOOT	1,323				1,297	26							
**		X5509902	ABANDON AND FILL EXISTING SANITARY SEWER	FOOT	1,367				990	377							
**		X5020103	CONTROLLED STIFFNESS COLUMN GROUND IMPROVEMENT	SQ YD	6,112	2,223											
**	*	X8040106	ELECTRIC SERVICE INSTALLATION AND CONNECTION	EACH	3		3										



USER NAME = CD012	DESIGNED - EJB	REVISED -
	DRAWN - EJB	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED - KE	REVISED -
PLOT DATE = 3/20/2026	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

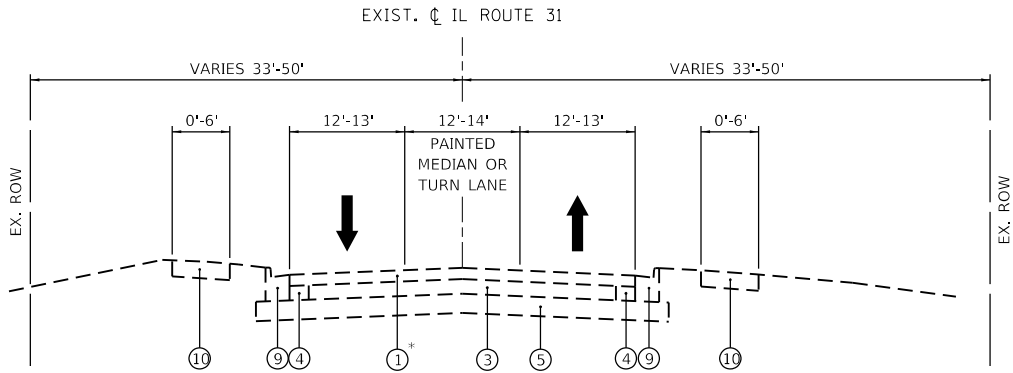
SUMMARY OF QUANTITIES

SCALE: NTS SHEET OF 26 SHEETS STA. TO STA.

2 REVISED SHEET 6/02/2026

Ø 0042

F.A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	34
		CONTRACT NO. 62U72		
ILLINOIS		FED. AID PROJECT		



ILLINOIS ROUTE 31
EXISTING TYPICAL SECTION
STA. 397+00 TO 467+00

*PCC PAVEMENT STA. 397+00 TO STA. 409+25

1

EXISTING TYPICAL SECTION LEGEND

1

HMA PAVEMENT, 3" ±

2

PCC PAVEMENT, 8-10"

3

PCC BASE COURSE, 9" ±

4

HMA BASE COURSE, 9" ±

5

AGGREGATE SUBGRADE

6

CONCRETE CURB TYPE B

7

AGGREGATE SHOULDER

8

COMBINATION CONCRETE C&G TYPE B-6.12

9

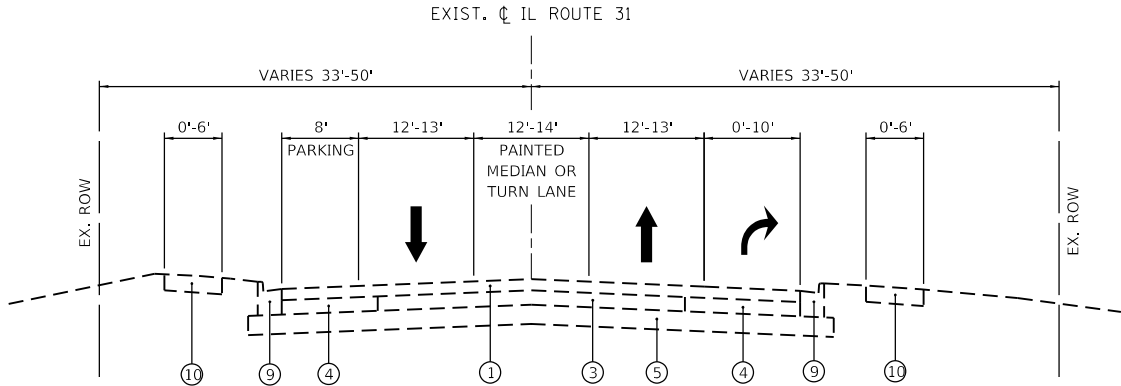
COMBINATION CONCRETE C&G TYPE B-6.24

10

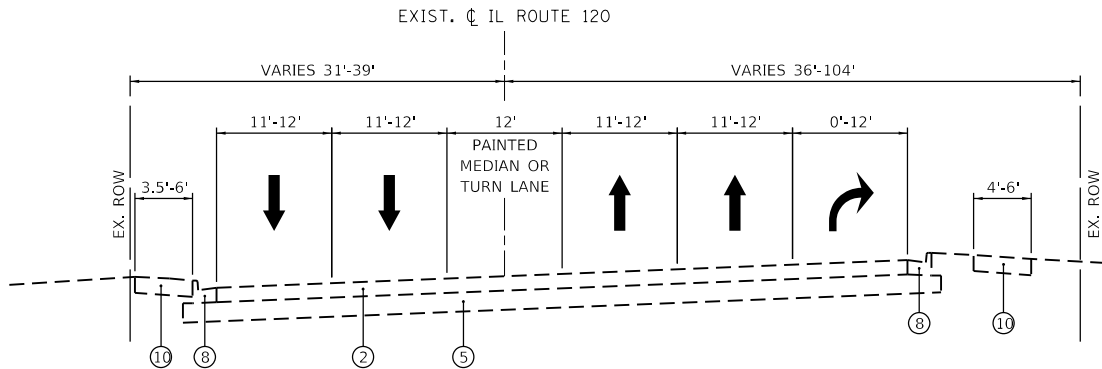
PCC SIDEWALK

11

HMA PAVEMENT, 12" ±



ILLINOIS ROUTE 31
EXISTING TYPICAL SECTION
STA. 467+00 TO 478+00



ILLINOIS ROUTE 120
EXISTING TYPICAL SECTION
STA. 291+94 TO 300+00

2 REVISED SHEET 6/02/2026

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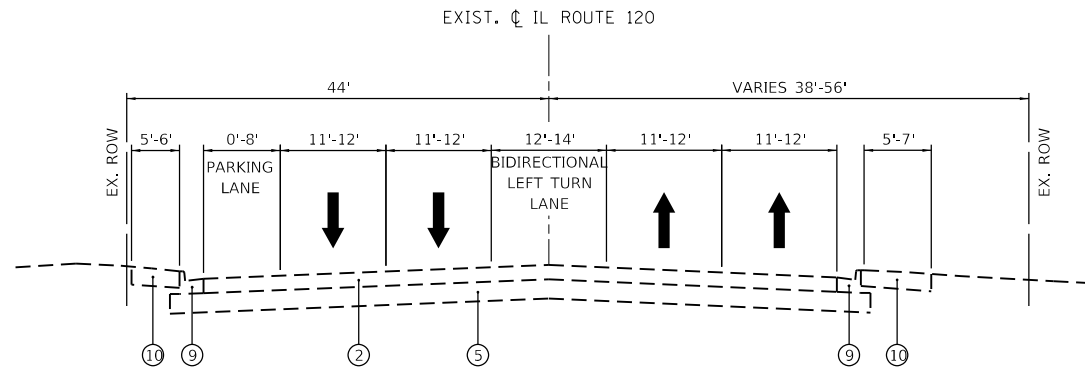
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PLOT SCALE	= 20.0000 ' / in.	CHECKED	-	KE	REVISED	-	
PLOT DATE	= 5/29/2026	DATE	-	1/9/2026	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

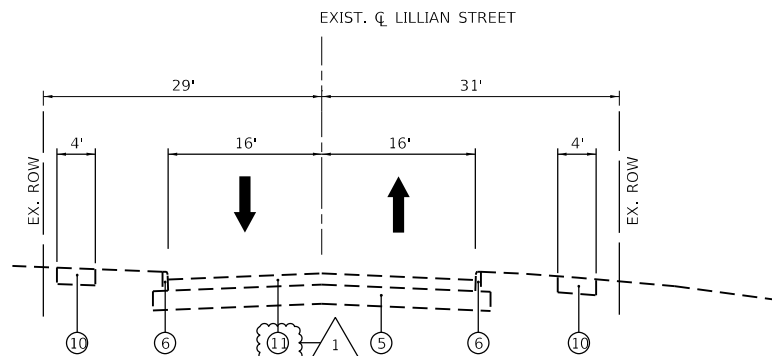
EXISTING TYPICAL SECTIONS

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

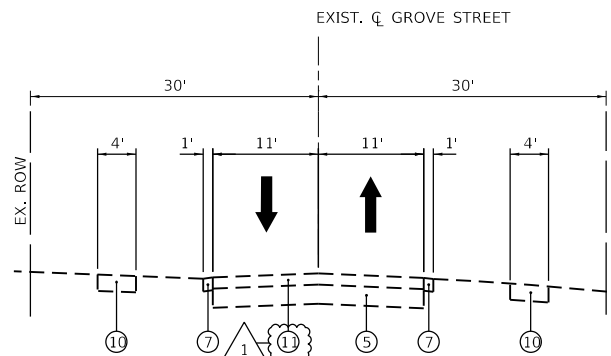
F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	35
			CONTRACT NO. 62U72	
		ILLINOIS	FED. AID PROJECT	



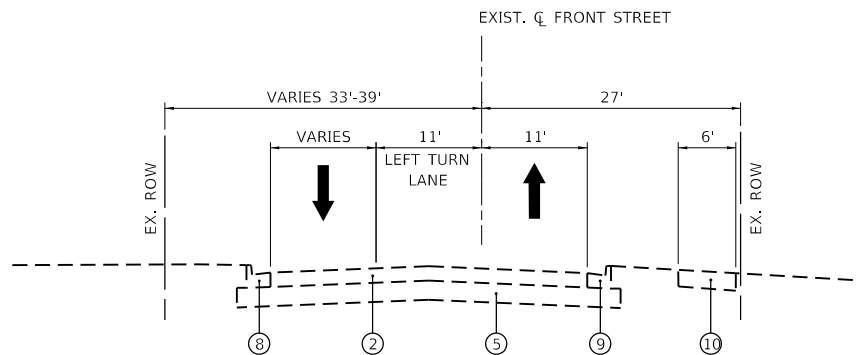
ILLINOIS ROUTE 120
EXISTING TYPICAL SECTION
STA. 300+00 TO 312+11



LILLIAN STREET
EXISTING TYPICAL SECTION
STA. 197+50 TO 200+00



GROVE STREET
EXISTING TYPICAL SECTION
STA. 200+00 TO 202+77



FRONT STREET
EXISTING TYPICAL SECTION
STA. 478+03 TO 480+60

EXISTING TYPICAL SECTION LEGEND

- ① HMA PAVEMENT, 3" ±
- ② PCC PAVEMENT, 8-10"
- ③ PCC BASE COURSE, 9" ±
- ④ HMA BASE COURSE, 9" ±
- ⑤ AGGREGATE SUBGRADE
- ⑥ CONCRETE CURB TYPE B
- ⑦ AGGREGATE SHOULDER
- ⑧ COMBINATION CONCRETE C&G TYPE B-6.12
- ⑨ COMBINATION CONCRETE C&G TYPE B-6.24
- ⑩ PCC SIDEWALK
- ⑪ HMA PAVEMENT, 12" ±

2 REVISED SHEET 6/02/2026

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USER NAME	= CD012	DESIGNED	- EJB	REVISED	- 2 5/27/2026
		DRAWN	- EJB	REVISED	-
PLOT SCALE	= 20.0000 ' / in.	CHECKED	- KE	REVISED	-
PLOT DATE	= 5/29/2026	DATE	- 1/9/2026	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING TYPICAL SECTIONS

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	36
CONTRACT NO. 62U72				
ILLINOIS			FED. AID PROJECT	

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EARTHWORK VOLUME (CU YD)																							
STATION TO STATION		LENGTH	EARTH EXCAVATION (SUITABLE CUT)			EARTH EXCAVATION (15% S.F.) USED FOR EMBANKMENT			EMBANKMENT (SUITABLE FILL)			EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)			TOPSOIL EXCAVATION AND PLACEMENT			REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL*			AGGREGATE SUBGRADE IMPROVEMENT**		
			STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3
LILLIAN ST/GROVE AVE																							
197+00.00	198+00.00	100.00	0.0	14.3	0.0	0.0	12.2	0.0	0.0	5.1	0.0	0.0	7.1	0.0	0.0	6.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
198+00.00	199+00.00	100.00	0.0	44.8	0.0	0.0	38.1	0.0	0.0	6.7	0.0	0.0	31.4	0.0	0.0	14.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
199+00.00	199+19.71	19.71	0.0	10.6	0.0	0.0	9.0	0.0	0.0	5.7	0.0	0.0	3.3	0.0	0.0	5.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
199+19.71	200+64.66	144.95	7.1	33.4	0.0	6.0	28.4	0.0	37.7	39.4	0.0	-31.7	-11.0	0.0	48.4	26.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
200+64.66	201+00.00	35.34	9.9	0.0	0.0	8.4	0.0	0.0	18.2	0.0	0.0	-9.8	0.0	0.0	23.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
201+00.00	202+00.00	100.00	55.4	0.0	0.0	47.1	0.0	0.0	27.8	0.0	0.0	19.4	0.0	0.0	54.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
202+00.00	202+28.92	28.92	17.2	0.0	0.0	14.6	0.0	0.0	9.0	0.0	0.0	5.5	0.0	0.0	11.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
202+28.92	203+00.00	71.08	19.2	0.0	0.0	16.3	0.0	0.0	20.7	0.0	0.0	-4.4	0.0	0.0	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
SUBTOTAL																							
			108.8	103.1	0.0	92.4	87.7	0.0	113.4	56.9	0.0	-20.9	30.8	0.0	151.1	53.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0

EARTHWORK VOLUME (CU YD)																							
STATION TO STATION		LENGTH	EARTH EXCAVATION (SUITABLE CUT)			EARTH EXCAVATION (15% S.F.) USED FOR EMBANKMENT			EMBANKMENT (SUITABLE FILL)			EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)			TOPSOIL EXCAVATION AND PLACEMENT			REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL*			AGGREGATE SUBGRADE IMPROVEMENT**		
			STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3
RETENTION BASINS																							
RETENTION BASIN 1				3170			2694.5			0.0			2694.5										
RETENTION BASIN 2				18595			15805.8			0.0			15805.8										
FOX VALLEY TRIBUTARY				3598			3058.3			0.0			3058.3										
SUBTOTAL																							
				25363			21558.55			0			21558.55										

EARTHWORK VOLUME (CU YD)																							
STATION TO STATION		LENGTH	EARTH EXCAVATION (SUITABLE CUT)			EARTH EXCAVATION (15% S.F.) USED FOR EMBANKMENT			EMBANKMENT (SUITABLE FILL)			EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)			TOPSOIL EXCAVATION AND PLACEMENT			REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL*			AGGREGATE SUBGRADE IMPROVEMENT**		
			STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3	STAGE 1	STAGE 2	STAGE 3
SUBTOTAL BY STAGE			8740.0	32046.0	1148.4	7398.2	27232.7	951.0	7135.1	6696.1	2544.7	283.0	20539.3	-1511.9	5742.7	4826.5	489.4	11802.8	10328.2	1164.7	11802.8	10328.2	1164.7
TOTAL BY PAY ITEM			41934.3			35581.9			16375.9			19310.5			11058.6			23295.7			23295.7		

1

ADJUSTMENT FOR NON-SPECIAL WASTE (CU YD)								
	NON-SPECIAL WASTE A(5)	EARTH EXCAVATION (SUITABLE CUT)	EARTH EXCAVATION (15% S.F.) USED FOR EMBANKMENT	EMBANKMENT (SUITABLE FILL)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)	TOPSOIL EXCAVATION AND PLACEMENT	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL*	AGGREGATE SUBGRADE IMPROVEMENT**
TOTAL BY PAY ITEM	13900	28034.3	23829.2	16375.9	7453.2	11058.6	23295.7	23295.7

PAY ITEM NO.	DESIGNATION	TOTAL (CU YD)
20200100	EARTH EXCAVATION	41935
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	23300
21101505	TOPSOIL EXCAVATION AND PLACEMENT	11060
30300001	AGGREGATE SUBGRADE IMPROVEMENT	28970

*UNSUITABLE MATERIAL INCLUDES MATERIAL REMOVED WITHIN UNDERCUTS
**AGGREGATE SUBGRADE IMPROVEMENT HAS BEEN INCREASED BY 25% OF THE TOTAL PAVEMENT AREA TO ACCOUNT FOR ANY EXCESS UNSUITABLE SOILS.

REVIS
2
REVISED SHEET 6/02/2026



USER NAME = CD012	DESIGNED -	REVISED - 5/28/2026
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/28/2026	DATE - 04/30/2024	REVISED -

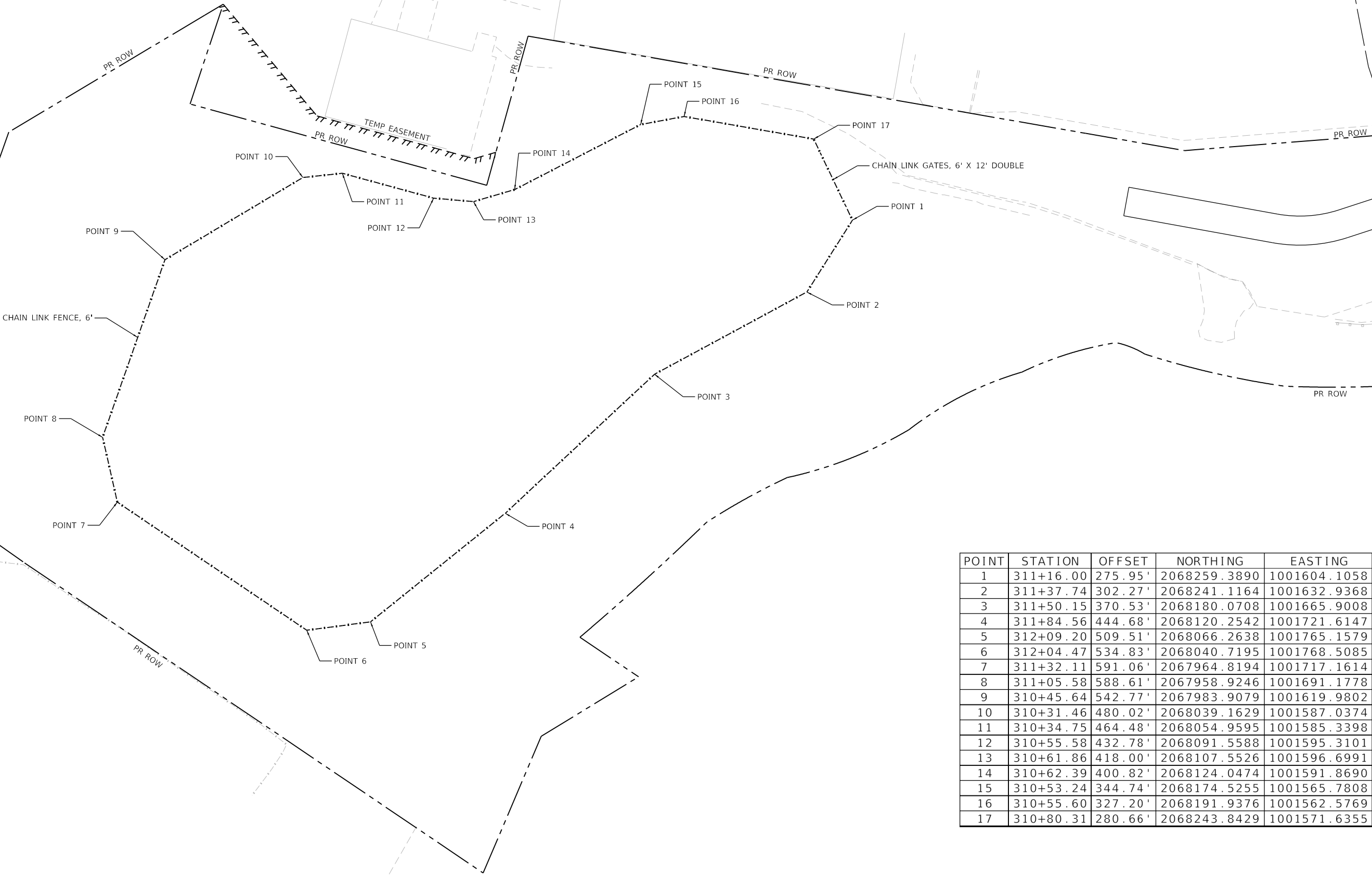
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY SCHEDULE OF QUANTITIES ILLINOIS ROUTE 31			
SCALE: NTS	SHEET OF 11 SHEETS	STA.	TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	45
		CONTRACT NO. 62U72		
		ILLINOIS	FED. AID PROJECT	



1



POINT	STATION	OFFSET	NORTHING	EASTING
1	311+16.00	275.95 '	2068259.3890	1001604.1058
2	311+37.74	302.27 '	2068241.1164	1001632.9368
3	311+50.15	370.53 '	2068180.0708	1001665.9008
4	311+84.56	444.68 '	2068120.2542	1001721.6147
5	312+09.20	509.51 '	2068066.2638	1001765.1579
6	312+04.47	534.83 '	2068040.7195	1001768.5085
7	311+32.11	591.06 '	2067964.8194	1001717.1614
8	311+05.58	588.61 '	2067958.9246	1001691.1778
9	310+45.64	542.77 '	2067983.9079	1001619.9802
10	310+31.46	480.02 '	2068039.1629	1001587.0374
11	310+34.75	464.48 '	2068054.9595	1001585.3398
12	310+55.58	432.78 '	2068091.5588	1001595.3101
13	310+61.86	418.00 '	2068107.5526	1001596.6991
14	310+62.39	400.82 '	2068124.0474	1001591.8690
15	310+53.24	344.74 '	2068174.5255	1001565.7808
16	310+55.60	327.20 '	2068191.9376	1001562.5769
17	310+80.31	280.66 '	2068243.8429	1001571.6355

2 ADDED ENTIRE SHEET 6/02/2026

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		DRAWN - DMS	REVISED -
	PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/18/2026	DATE - 04/30/2024	REVISED -

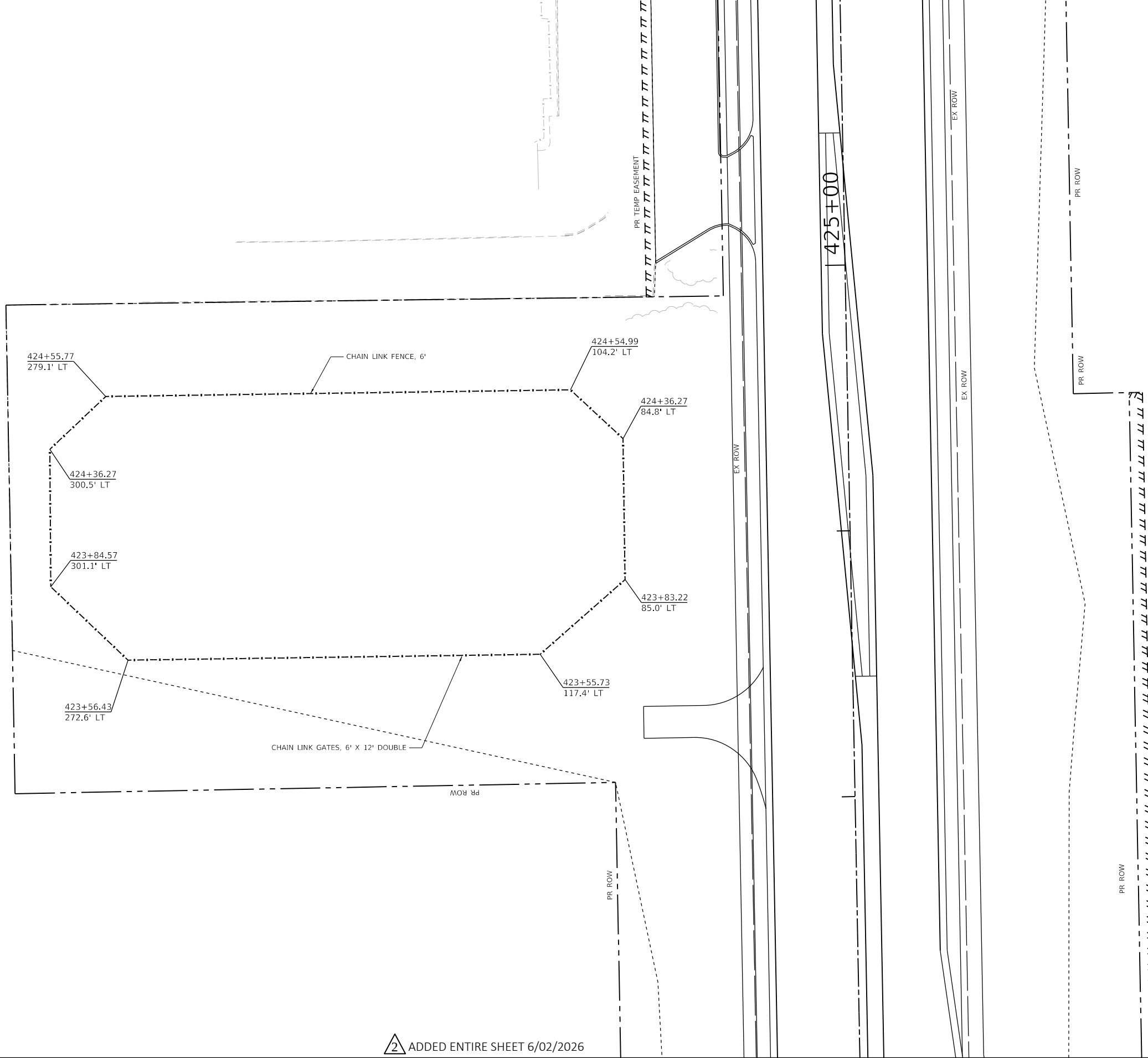
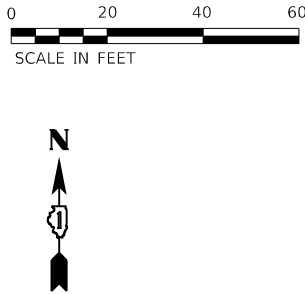
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
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	73A
		CONTRACT NO. 62U72		
ILLINOIS		FED. AID PROJECT		

MODEL: Default
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2 ADDED ENTIRE SHEET 6/02/2026



USER NAME	= CD012	DESIGNED	-	HRG	REVISED	-	5/28/2026
		DRAWN	-	DMS	REVISED	-	
PLOT SCALE	= 40,0000 ' / in.	CHECKED	-		REVISED	-	
PLOT DATE	= 5/29/2026	DATE	-	04/30/2024	REVISED	-	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
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	73B
		CONTRACT NO. 62U72		
ILLINOIS		FED. AID PROJECT		

MODEL: Default
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IL ROUTE 120 - INTERSECTION SUB-STAGE 2B



USER NAME	= CD012	DESIGNED -	AN	REVISED -	5/19/2026
DRAWN -	ACN	REVISD -			
PLOT SCALE	= 100,0000 ' / in.	CHECKED -	KE	REVISED -	
PLOT DATE	= 5/19/2026	DATE -	1/9/2026	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC STAGE 2 INTERSECTION PLAN
IL ROUTE 120 - FRONT STREET

SCALE: 1"=50' SHEET 8 OF 12 SHEETS STA. TO STA.

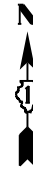
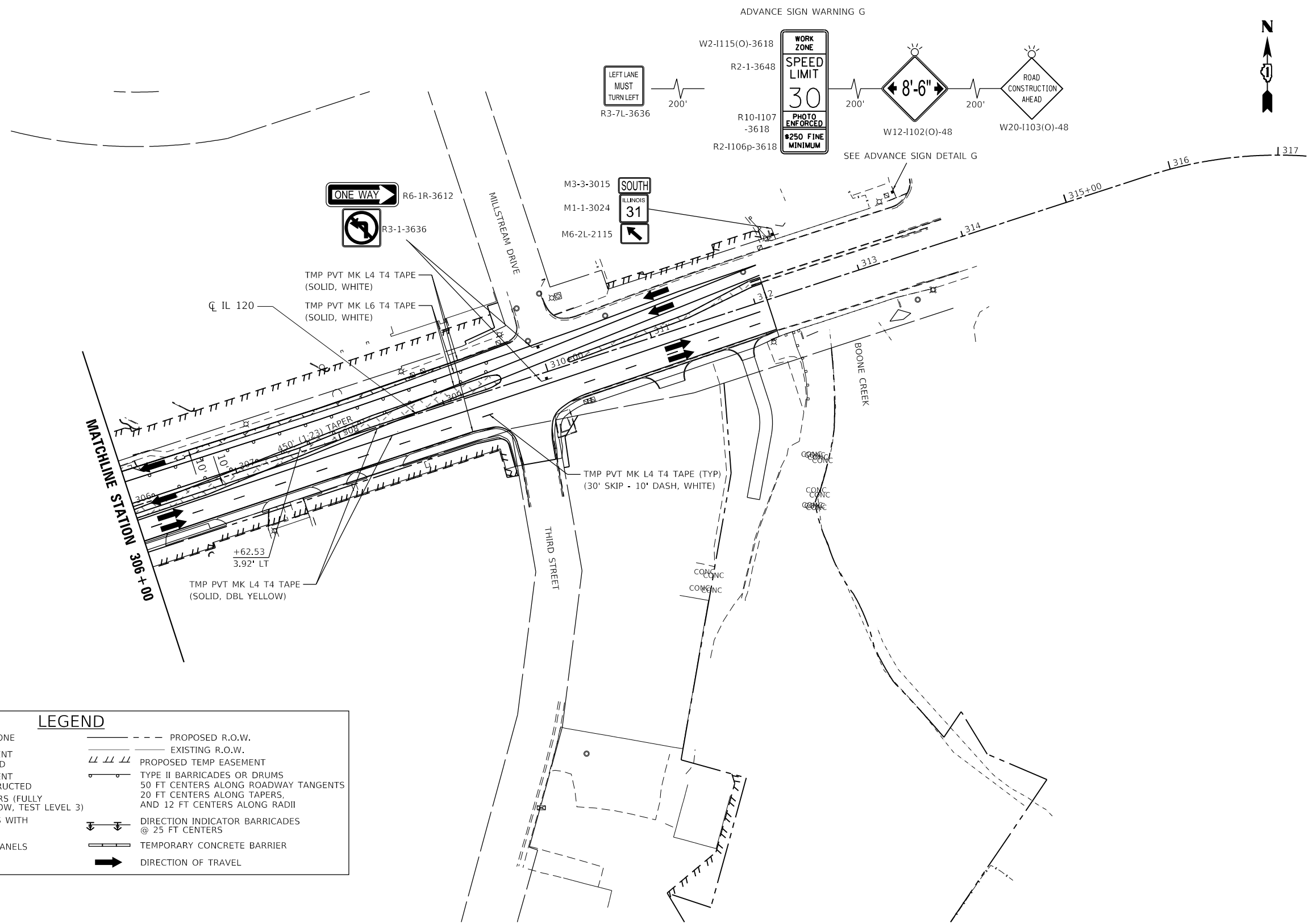
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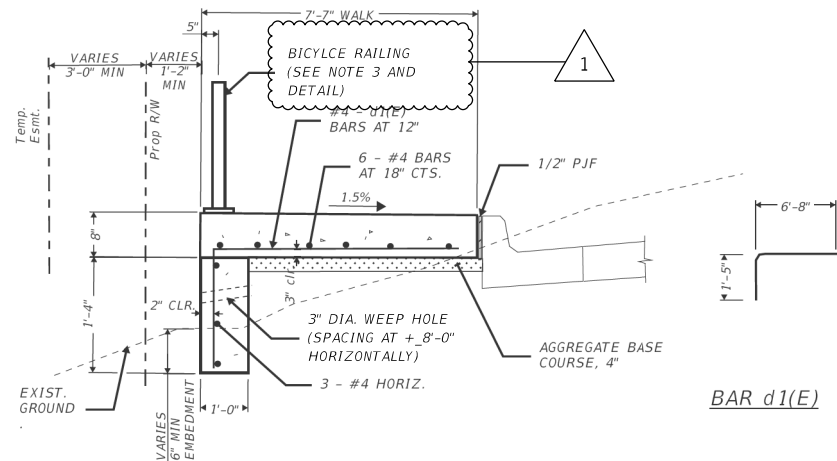
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FEET

GRAPHIC SCALE

F.A. P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	113
CONTRACT NO. 62U72				
ILLINOIS		FED. AID PROJECT		

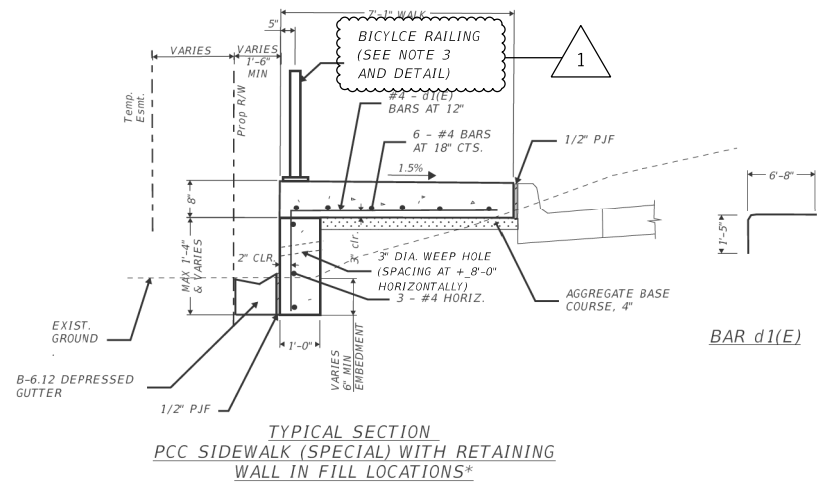
LEGEND	
	PROPOSED WORK ZONE
	TEMPORARY PAVEMENT TO BE CONSTRUCTED
	TEMPORARY PAVEMENT PREVIOUSLY CONSTRUCTED
	IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW, TEST LEVEL 3)
	TYPE III BARRICADES WITH FLASHING LIGHTS
	DOUBLE VERTICAL PANELS
	PROPOSED R.O.W.
	EXISTING R.O.W.
	PROPOSED TEMP EASEMENT
	TYPE II BARRICADES OR DRUMS
	50 FT. CENTERS ALONG ROADWAY TANGENTS
	20 FT. CENTERS ALONG TAPERS, AND 12 FT. CENTERS ALONG RADII
	DIRECTION INDICATOR BARRICADES @ 25 FT. CENTERS
	TEMPORARY CONCRETE BARRIER
	DIRECTION OF TRAVEL





TYPICAL SECTION
PCC SIDEWALK (SPECIAL) WITH RETAINING
WALL IN FILL LOCATIONS*

- NOTES:
1. ALL REINFORCEMENT SHALL BE EPOXY COATED
 2. IF LAPPING OF REINFORCEMENT BARS IS REQUIRED, THE MINIMUM BAR LAP LENGTH SHALL BE 2'-8"
 3. 8 RAIL POSTS SPACED AT 9'-0"
- *IL 120 STA. 298+20 LT TO STA. 298+90 LT



- NOTES:
1. ALL REINFORCEMENT SHALL BE EPOXY COATED
 2. IF LAPPING OF REINFORCEMENT BARS IS REQUIRED, THE MINIMUM BAR LAP LENGTH SHALL BE 2'-8"
 3. 8 RAIL POSTS SPACED AT 9'-7 1/4"
- *IL 120 STA. 304+31 LT TO STA. 304+99.50 LT

2 REVISED SHEET 6/02/2026

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USER NAME	= CD012	DESIGNED	- AN	REVISED	- 1 5/27/2026
		DRAWN	- BAW	REVISED	-
PLOT SCALE	= 40,0000 ' / in.	CHECKED	- KE	REVISED	-
PLOT DATE	= 5/27/2026	DATE	- 1/9/2026	REVISED	-

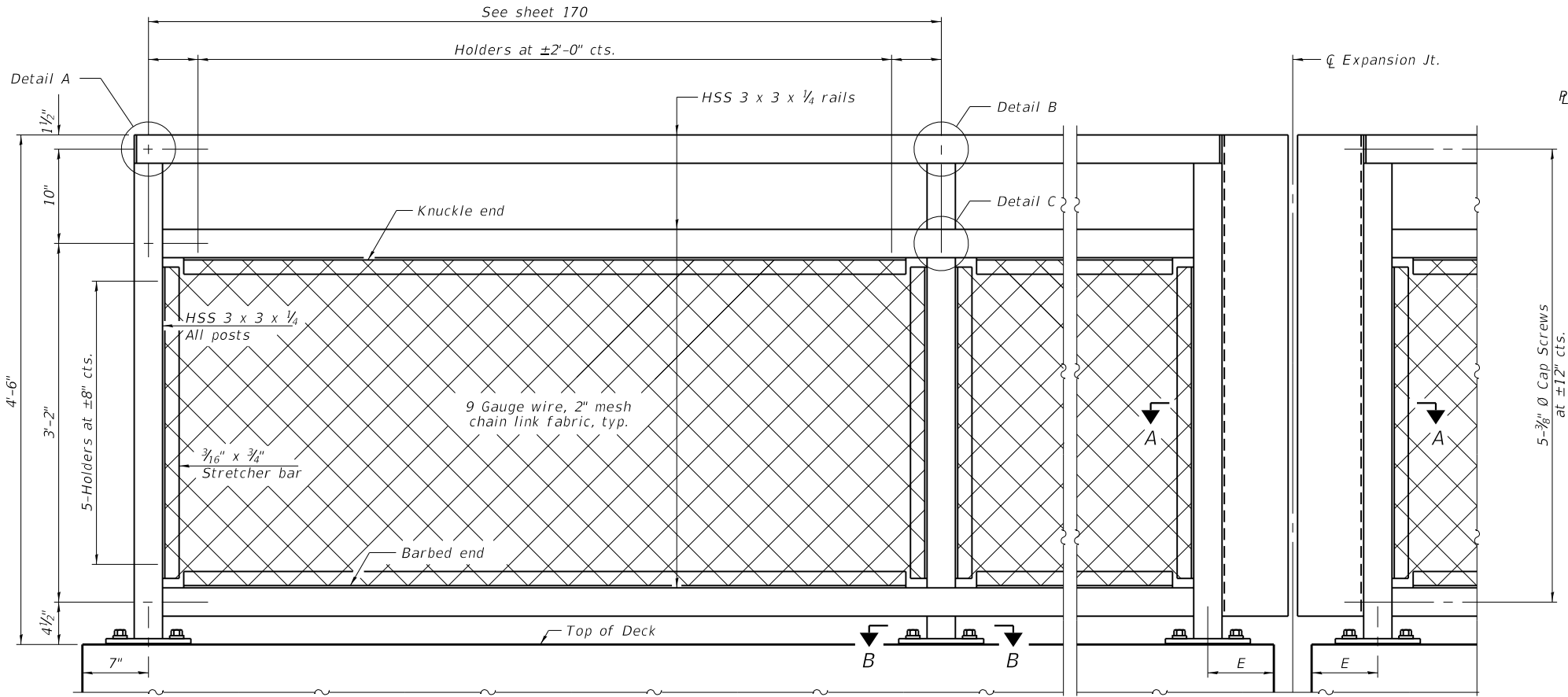
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAIL

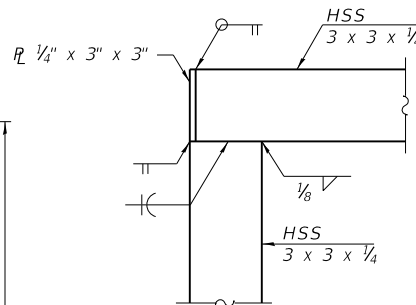
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	170
		CONTRACT NO. 62U72		
ILLINOIS		FED. AID PROJECT		

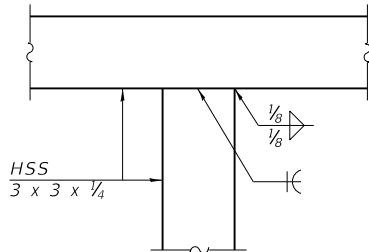
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REUSE OF DOCUMENTS: THIS DOCUMENT, AND THE IDEAS AND DESIGNS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF PATRICK ENGINEERING, AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT THE WRITTEN AUTHORIZATION OF PATRICK ENGINEERING.
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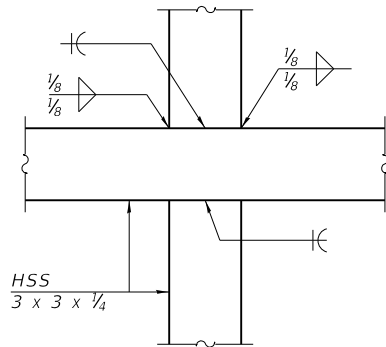
ELEVATION BICYCLE RAILING
(Inside face)



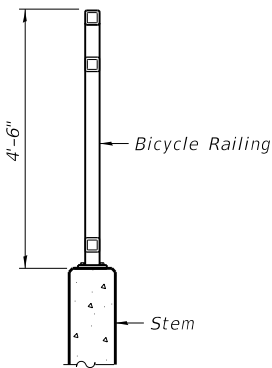
DETAIL A



DETAIL B



DETAIL C



SECTION THRU STEM

RAILING CRITERIA

MASH 2016 Test Level	4
Bicycle Railing Weight (plf)	50
Max Post Spacing	10'-0"



USER NAME	=	CD012
PLOT SCALE	=	0.1667' / in.
PLOT DATE	=	5/27/2026

DESIGNED	-	EMA
CHECKED	-	LFB
DRAWN	-	RMH
CHECKED	-	LFB

REVISED	-
REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BICYCLE RAILING (1 OF 2)
ILLINOIS ROUTE 120

SHEET OF SHEETS

ADDED ENTIRE SHEET 6/02/2026

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	170A
		CONTRACT NO.		62U72
ILLINOIS		FED. AID PROJECT		

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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	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
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
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 *	



DESIGN STORM 50 YEAR
FREEBOARD TO OVERFLOW: 0.46 FT
FREEBOARD 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

OVERFLOW WEIR
CREST ELEV=763.00
CREST LENGTH=20 FT

LEGEND

CENTERLINE

EXISTING RIGHT OF WAY

PROPOSED RIGHT OF WAY

PROPOSED TEMPORARY EASEMENT

WETLANDS

PROPOSED BOX CULVERT

PROPOSED STORM SEWER

FLOODPLAIN BOUNDARY

CHAIN LINK FENCE, 6'

DRAIN SUMMIT

FLOW DIRECTION

SWALE

DITCH

OUTLET

SHEET FLOW

OVERFLOW

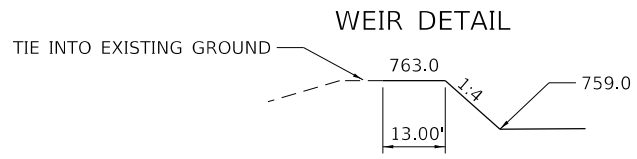
CULVERT END SECTION

CATCH BASIN

INLET

MANHOLE

DITCH CHECK



2 REVISED SHEET 6/02/2026

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

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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

N: 2068201.4734
E: 1001564.2411

N: 2068219.6814
E: 1001567.4188

N: 2068031.83
E: 1001591.40

N: 2068062.0602
E: 1001587.2741

N: 2068167.39
E: 1001569.46

N: 2067996.05
E: 1001612.74

N: 2067979.22
E: 1001633.32

N: 2068124.05
E: 1001591.87

N: 2068091.5588
E: 1001595.3101

INV - 742.98

ALL SLOPES ARE 3:1

N: 2068180.07
E: 1001666.84

N: 2068165.45
E: 1001677.42

N: 2068231.20
E: 1001638.29

N: 2067962.64
E: 1001680.58

N: 2067977.58
E: 1001725.80

N: 2068028.46
E: 1001760.21

N: 2068074.80
E: 1001758.27

N: 2068127.82
E: 1001714.42

N: 2068116.31
E: 1001758.27

BOONE CREEK

0 20 40 60
SCALE IN FEET

LEGEND

- | | | | |
|-----|-----------------------------|---|---------------------|
| --- | CENTERLINE | ↔ | DRAIN SUMMIT |
| --- | EXISTING RIGHT OF WAY | → | FLOW DIRECTION |
| --- | PROPOSED RIGHT OF WAY | ↔ | SWALE |
| | PROPOSED TEMPORARY EASEMENT | ~ | DITCH |
| --- | WETLANDS | ➡ | OUTLET |
| --- | PROPOSED BOX CULVERT | ➡ | SHEET FLOW |
| --- | PROPOSED STORM SEWER | ➡ | OVERFLOW |
| --- | FLOODPLAIN BOUNDARY | ▲ | CULVERT END SECTION |
| --- | CHAIN LINK FENCE, 6' | ● | CATCH BASIN |
| | | - | INLET |
| | | ○ | MANHOLE |
| | | ◆ | DITCH CHECK |

2 REVISED SHEET 6/02/2026

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				

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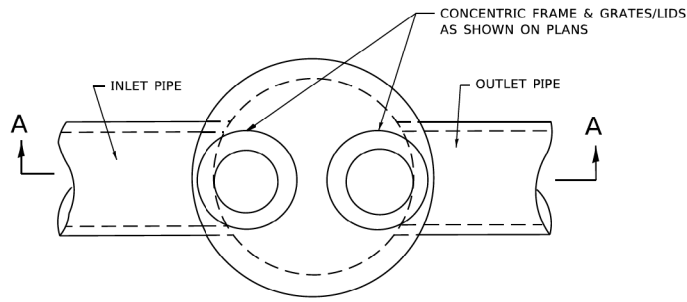


HRGreen.com
Illinois Professional Design Firm
184-001322

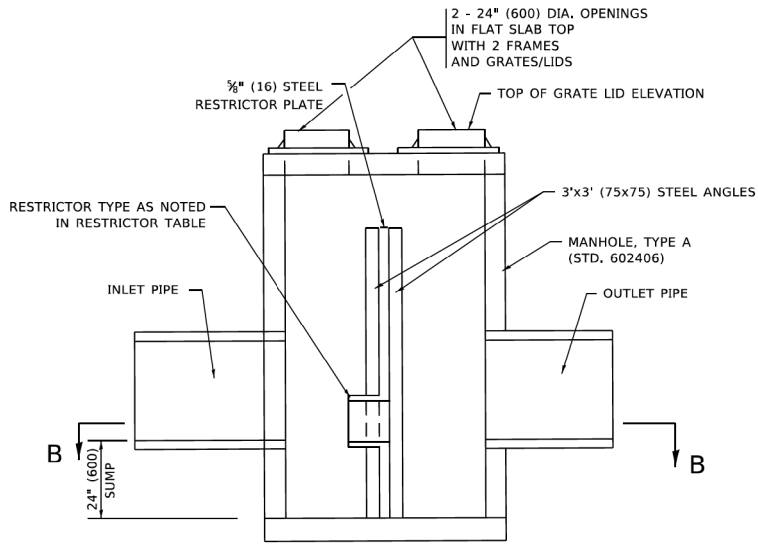
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DRAWN	- DMS
CHECKED	-
DATE	- 04/30/2024

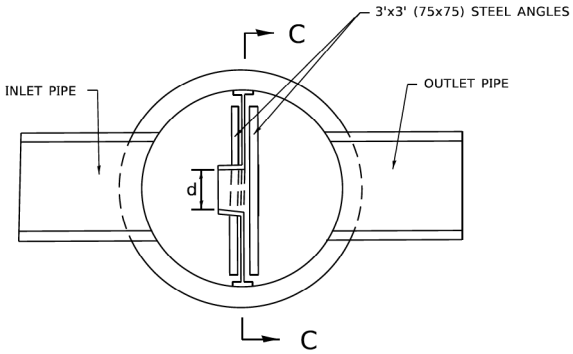
REVISED	- 5/31/2026
REVISED	-
REVISED	-
REVISED	-



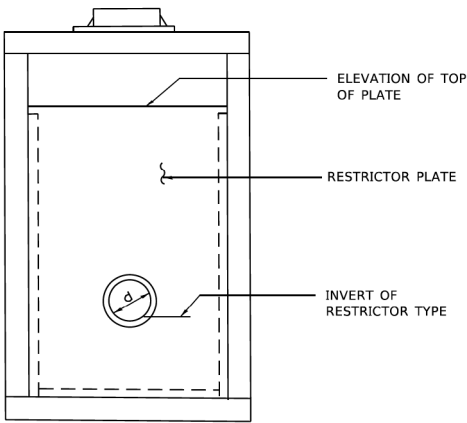
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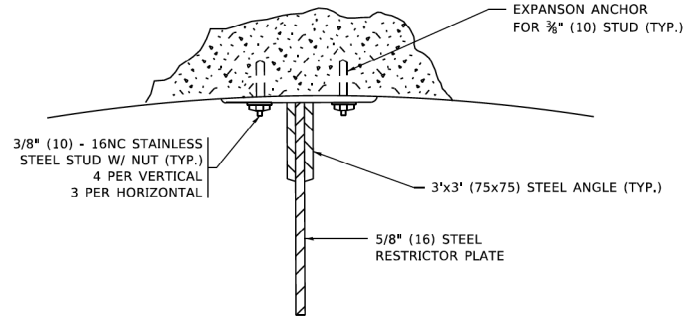
SECTION A-A



SECTION B-B



SECTION C-C



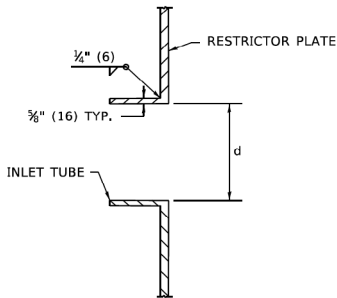
ANGLE FASTENER DETAIL

NOTES:

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

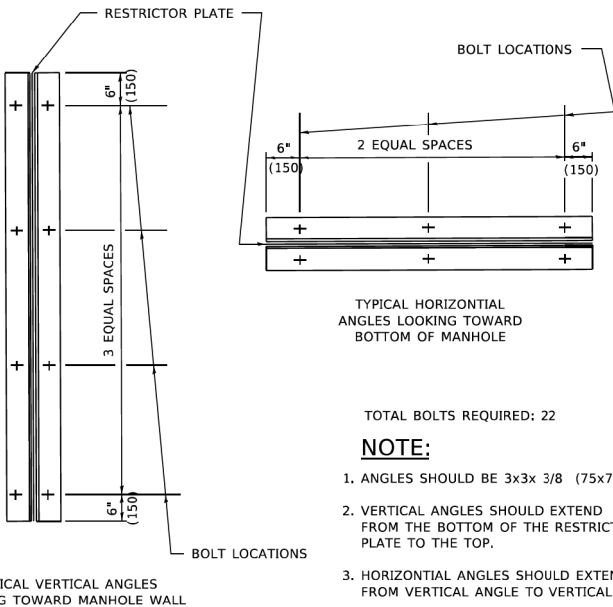
BASIS OF PAYMENT:

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
S12-06	312+01.4 ; 472.2	10	2 - T1F CL	2	54.00	742.16	750.00



STEEL ANGLE BOLTING DETAILS

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

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

2 REVISED SHEET 6/1/2026

2 REVISED SHEET 6/02/2026

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

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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - M. GOMEZ 01-08-01
	PLOT DATE = 2/2/2022	DATE - 09-09-94	REVISED - K. SMITH 02-01-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MANHOLE WITH
RESTRICTOR PLATE

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

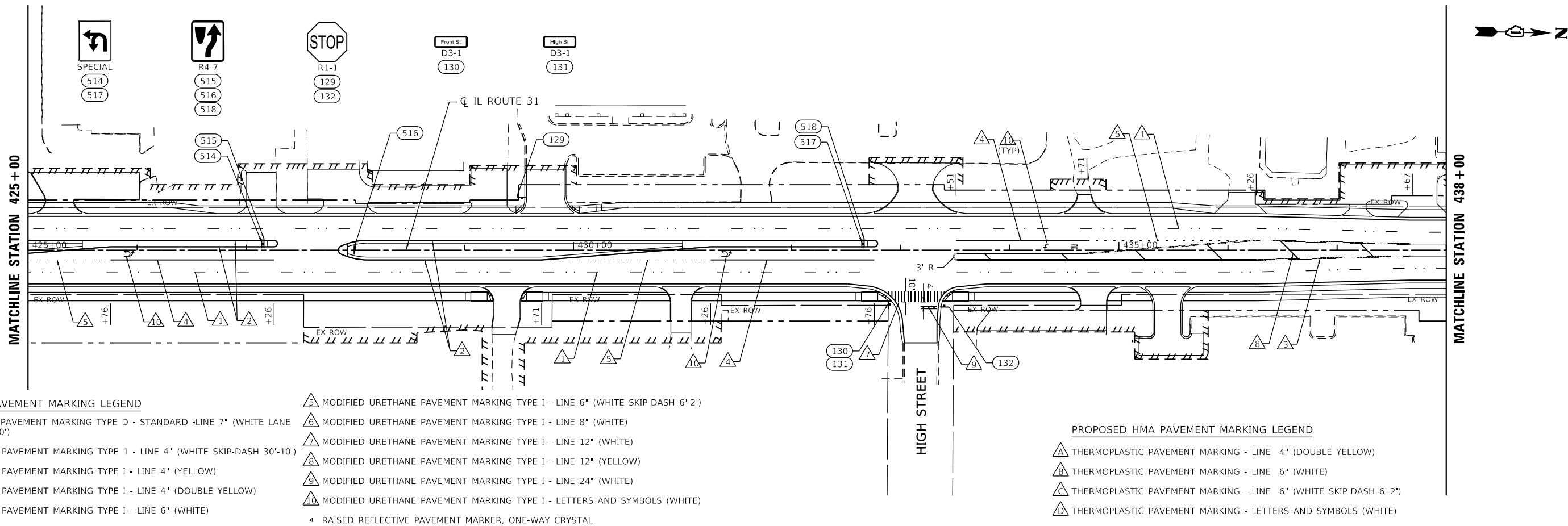
HRGreen.com
Professional Design Firm
184-001322

USER NAME = mzuzzio	DESIGNED - HRG	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 6/1/2026	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE DETAILS
ILLINOIS ROUTE 31

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



PROPOSED PCC PAVEMENT MARKING LEGEND

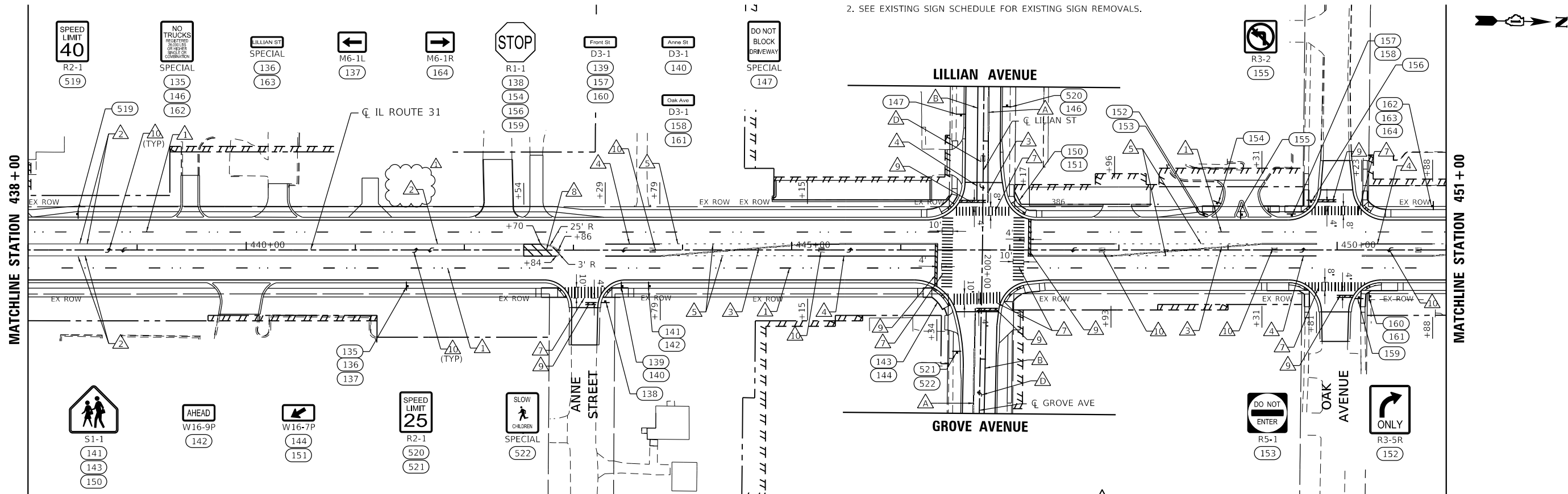
- △ PREFORMED PLASTIC PAVEMENT MARKING TYPE D - STANDARD -LINE 7" (WHITE LANE LINE SKIP-DASH 30'-10')
- △ 1A MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 4" (WHITE SKIP-DASH 30'-10')
- △ 2 MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 4" (YELLOW)
- △ 3 MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 4" (DOUBLE YELLOW)
- △ 4 MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 6" (WHITE)
- △ 5 MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 6" (WHITE SKIP-DASH 6'-2')
- △ 6 MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 8" (WHITE)
- △ 7 MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 12" (WHITE)
- △ 8 MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 12" (YELLOW)
- △ 9 MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 24" (WHITE)
- △ 10 MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LETTERS AND SYMBOLS (WHITE)
- ◀ RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY CRYSTAL

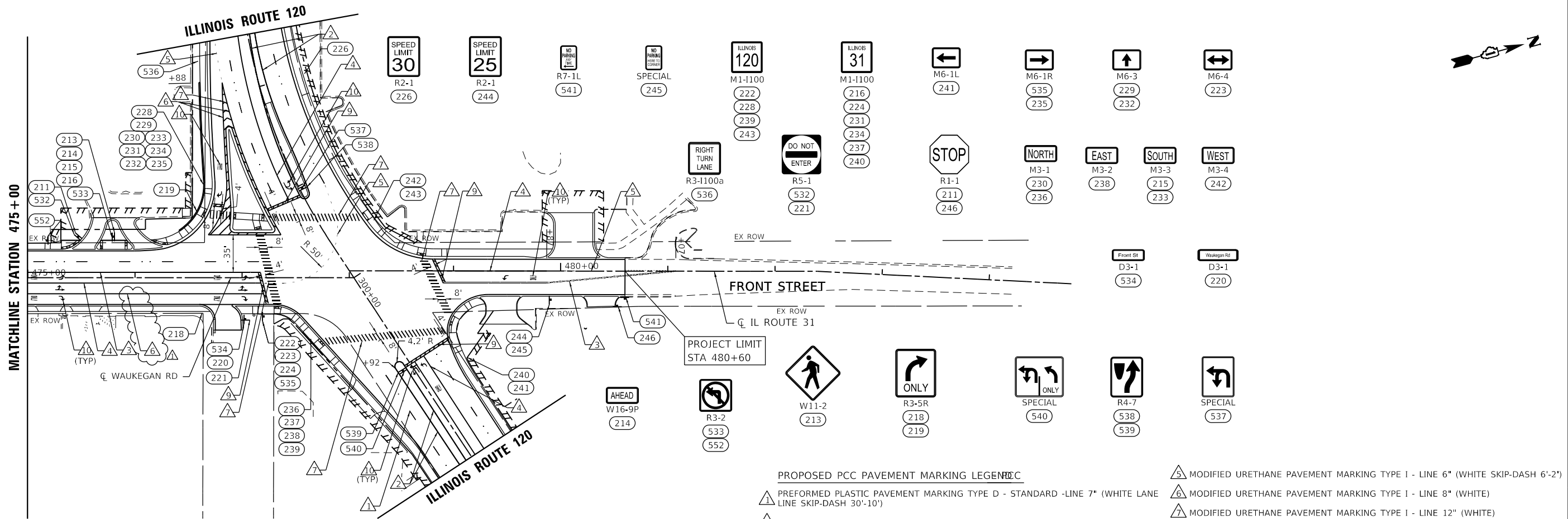
PROPOSED HMA PAVEMENT MARKING LEGEND

- △ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)
- △ B THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)
- △ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SKIP-DASH 6'-2')
- △ THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)

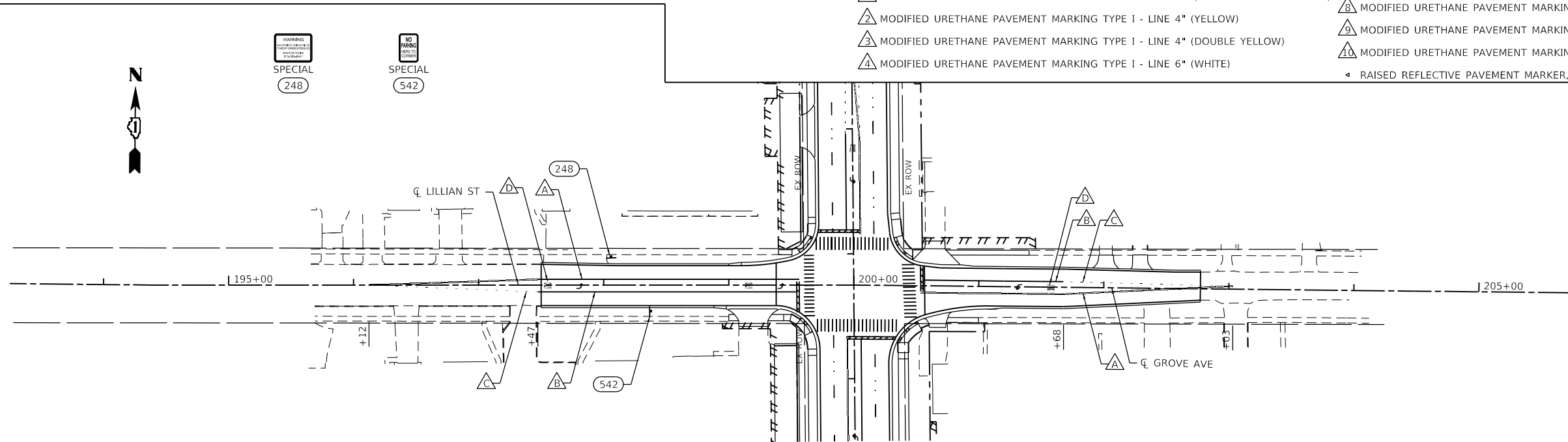
NOTES:

1. EXISTING SIGNS BEGIN AT #100. PROPOSED SIGNS BEGIN AT #500.
2. SEE EXISTING SIGN SCHEDULE FOR EXISTING SIGN REMOVALS.





- PROPOSED PCC PAVEMENT MARKING LEGEND**
- 1 PREFORMED PLASTIC PAVEMENT MARKING TYPE D - STANDARD -LINE 7" (WHITE LANE LINE SKIP-DASH 30'-10')
 - 1A MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 4" (WHITE SKIP-DASH 30'-10')
 - 2 MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 4" (YELLOW)
 - 3 MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 4" (DOUBLE YELLOW)
 - 4 MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 6" (WHITE)
 - 5 MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 6" (WHITE SKIP-DASH 6'-2')
 - 6 MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 8" (WHITE)
 - 7 MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 12" (WHITE)
 - 8 MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 12" (YELLOW)
 - 9 MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LINE 24" (WHITE)
 - 10 MODIFIED URETHANE PAVEMENT MARKING TYPE 1 - LETTERS AND SYMBOLS (WHITE)
- ◀ RAISED REFLECTIVE PAVEMENT MARKER, ONE-WAY CRYSTAL



- PROPOSED HMA PAVEMENT MARKING LEGEND**
- A THERMOPLASTIC PAVEMENT MARKING - LINE 4" (DOUBLE YELLOW)
 - B THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE)
 - C THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SKIP-DASH 6'-2')
 - D THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE)

- NOTES:**
- EXISTING SIGNS BEGIN AT #100. PROPOSED SIGNS BEGIN AT #500.
 - SEE EXISTING SIGN SCHEDULE FOR EXISTING SIGN REMOVALS.

REVISED SHEET 6/02/2026



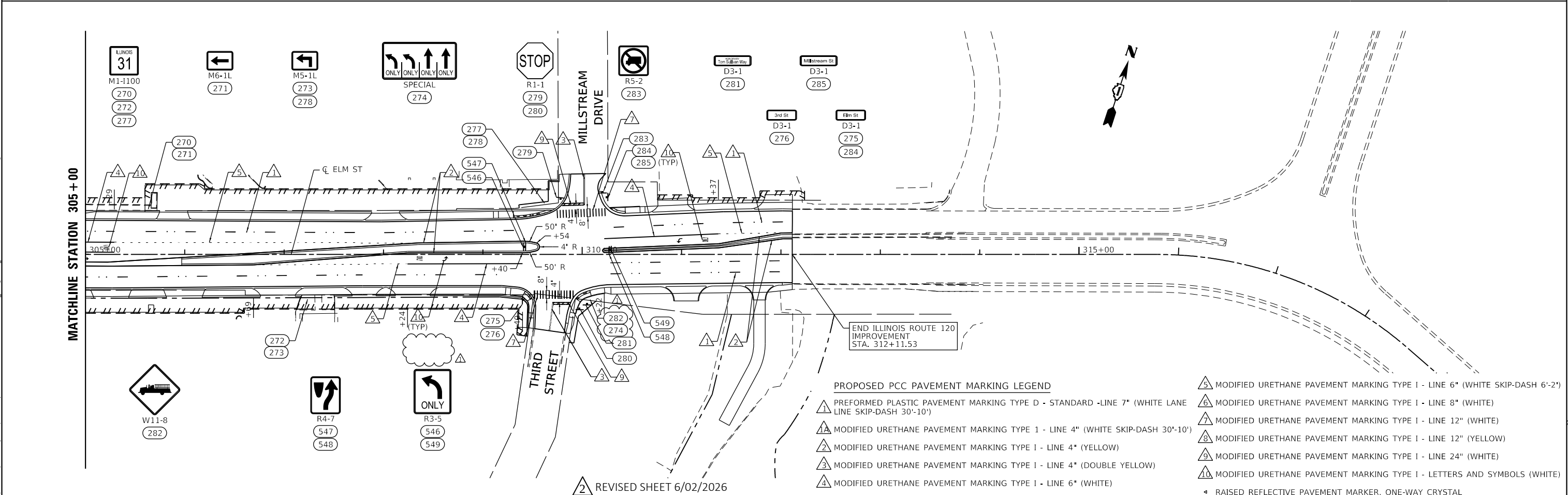
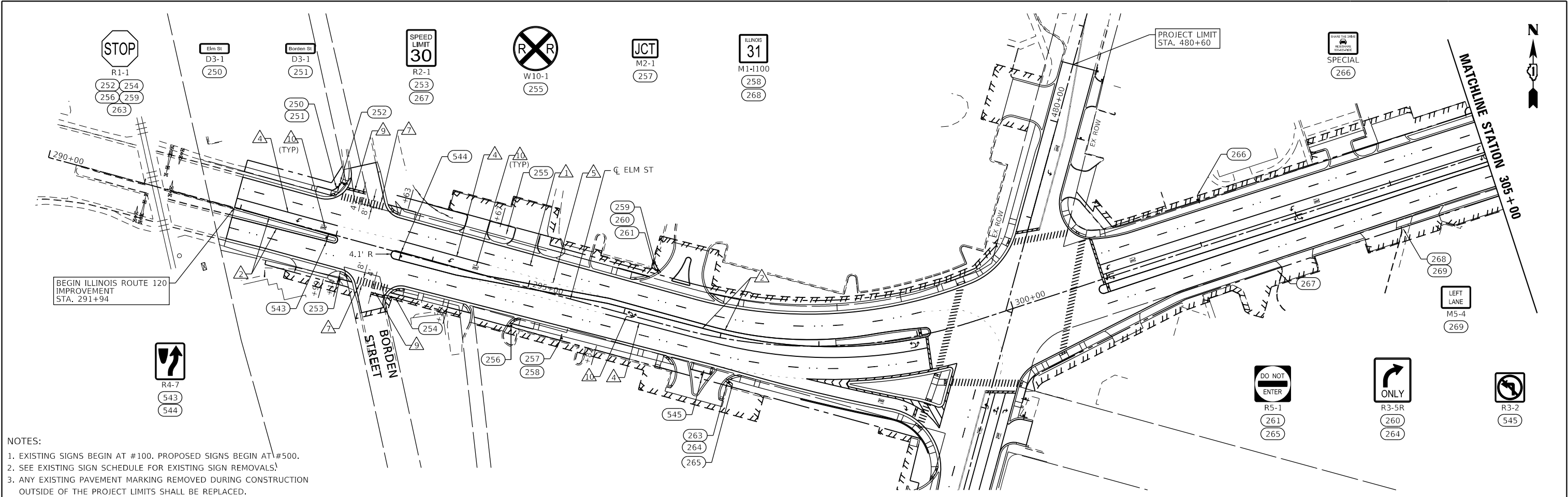
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PLOT DATE = 5/19/2026	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING 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	349
				CONTRACT NO. 62U72
ILLINOIS FED. AID PROJECT				



SINGH SINGH + ASSOCIATES, INC. CONSULTING ENGINEERS	USER NAME = joshea	DESIGNED - AN	REVISED - 05/19/2026	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND SIGNING PLAN ILLINOIS ROUTE 120	F.A.P. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100,000 ' / in.	DRAWN - BAW	REVISED -			336A	FAP 336 23 RECON NORTH	McHENRY	575	350	
	PLOT DATE = 5/19/2026	CHECKED - KE	REVISED -			CONTRACT NO. 62U72					
		DATE - 04/30/2024	REVISED -			SCALE: 1"=50' SHEET 5 OF 5 SHEETS STA. TO STA.					

EXISTING SIGN SCHEDULE

SIGN I.D.	LOCATION	EXISTING		PROPOSED		MUTCD or IDOT SIGN DESIGNATION	SIGN DESCRIPTION	EXISTING MOUNTING TYPE	PROPOSED MOUNTING TYPE	EXISTING PANEL DIMENSIONS		EX PANEL AREA	72400100	72400500	72400710	72800100	72900200
		STATION	OFFSET	STATION	OFFSET					REMOVE SIGN PANEL ASSEMBLY TYPE A	RELOCATE SIGN PANEL ASSEMBLY TYPE A		RELOCATE SIGN PANEL TYPE 1	TELES STEEL SIGN SUPPORT	METAL POST TYPE B		
																WIDTH (IN)	HEIGHT (IN)
240	IL 120	301+05	LT	301+20	LT	M1-1100	STATE ROUTE MARKER (INDEPENDENT MOUNT) - IL 31	POLE	TELESCOPING	24	24	4.00		1		17.05	
241						M6-1L	DIRECTIONAL ARROW - LEFT			21	15	2.19					
242	IL 31	478+15	LT	478+26	LT	M3-4	CARDINAL DIRECTION - WEST	POLE	TELESCOPING	24	12	2.00		1		16.4	
243						M1-1100	STATE ROUTE MARKER (INDEPENDENT MOUNT) - IL 120			24	24	4.00					
244	IL 31	479+90	RT	479+90	RT	R2-1	SPEED LIMIT - 25 MPH	METAL	TELESCOPING	24	30	5.00		1		18	
245						SPECIAL	NO PARKING HERE TO CORNER			12	18	1.50					
246	IL 31	480+52	RT	480+53	RT	R1-1	STOP	METAL	TELESCOPING	30	30	6.25		1		15.5	
247	IL 31	480+60	RT	480+60	RT	SPECIAL	NO PARKING BETWEEN SIGNS	METAL		12	18	1.50	1				
248	LILLIAN	198+06	LT	198+06	LT	SPECIAL	WARNING - UNAUTHORIZED VEHICLES WILL BE TOWED	METAL	METAL	30	24	5.00		1			13
249	LILLIAN	198+38	RT			SPECIAL	NO PARKING HERE TO CORNER	METAL		12	18	1.50	1				
250	IL 120	292+89	LT	292+89	LT	D3-1	STREET NAME (1-LINE) Elm St	METAL	TELESCOPING	24	12	2.00		1		15	
251						D3-1	STREET NAME (1-LINE) Borden St			24	12	2.00					
252	IL 120	292+93	LT	292+94	LT	R1-1	STOP	POLE	METAL	30	30	6.25		1			13.5
253	IL 120	293+26	RT	293+15	RT	R2-1	SPEED LIMIT - 30 MPH	POLE	TELESCOPING	30	36	7.50		1		16	
254	IL 120	293+62	RT	293+70	RT	R1-1	STOP	POLE	METAL	30	30	6.25		1			13.5
255	IL 120	294+60	LT	294+65	LT	W10-1	GRADING CROSSING ADVANCED WARNING	TELESCOPING	LIGHT POLE	36		7.07		1			
256	IL 120	294+94	RT	294+94	RT	R1-1	STOP	TELESCOPING	METAL	30	30	6.25		1			13.5
257	IL 120	295+46	RT	295+46	RT	M2-1	JUNCTION	TELESCOPING	TELESCOPING	21	15	2.19		1		16.25	
258						M1-1100	STATE ROUTE MARKER (INDEPENDENT MOUNT) - IL 31			24	24	4.00					
259	IL 120	296+21	LT	296+21	LT	R1-1	STOP	METAL	TELESCOPING	30	30	6.25		1		18	
260						R3-5R	MANDATORY LANE CONTROL - RIGHT			24	30	5.00					
261						R5-1	DO NOT ENTER			30	30	6.25					
262	IL 120	296+89	RT			R3-2	MOVEMENT PROHIBITION - LEFT TURN	TELESCOPING		24	24	4.00	1				
263	IL 120	297+14	RT	297+16	RT	R1-1	STOP	TELESCOPING	TELESCOPING	30	30	6.25		1		18	
264						R3-5R	MANDATORY LANE CONTROL - RIGHT			24	30	5.00					
265						R5-1	DO NOT ENTER			30	30	6.25					
266	IL 120	302+09	LT	302+10	LT	SPECIAL	SHARE THE DRIVE RIDESHARE	TELESCOPING	TELESCOPING	36	30	7.50		1		15.5	
267	IL 120	302+65	RT	302+65	RT	R2-1	SPEED LIMIT - 30 MPH	POLE	LIGHT POLE	30	36	7.50		1			
268	IL 120	303+97	RT	303+97	RT	M1-1100	STATE ROUTE MARKER (INDEPENDENT MOUNT) - IL 31	POLE	LIGHT POLE	24	24	4.00		1			
269						M5-4	LEFT LANE			24	18	3.00					
270	IL 120	305+63	LT	305+63	LT	M1-1100	STATE ROUTE MARKER (INDEPENDENT MOUNT) - IL 31	POLE	LIGHT POLE	24	24	4.00		1			
271						M6-1L	DIRECTIONAL ARROW - LEFT			21	15	2.19					
272	IL 120	307+34	RT	307+34	RT	M1-1100	STATE ROUTE MARKER (INDEPENDENT MOUNT) - IL 31	POLE	LIGHT POLE	24	24	4.00		1			
273						M5-1L	ADVANCE TURN ARROW - LEFT			21	15	2.19					
275	IL 120	309+50	RT	309+41	RT	D3-1	STREET NAME (1-LINE) Elm St	TELESCOPING	TELESCOPING	24	12	2.00		1		15	
276						D3-1	STREET NAME (1-LINE) 3rd St			24	12	2.00					
277	IL 120	309+68	LT	309+68	LT	M1-1100	STATE ROUTE MARKER (INDEPENDENT MOUNT) - IL 31	POLE	LIGHT POLE	24	24	4.00		1			
278						M5-1L	ADVANCE TURN ARROW - LEFT			21	15	2.19					
279	IL 120	309+81	LT	309+78	LT	R1-1	STOP	METAL	METAL	30	30	6.25		1			13.5
280	IL 120	309+95	RT	309+97	RT	R1-1	STOP	TELESCOPING	TELESCOPING	30	30	6.25		1		15.5	
281	IL 120	309+95	RT	310+04	RT	D3-1	STREET NAME (2-LINE) HONORARY Tom Sullivan Way	TELESCOPING	TELESCOPING	30	12	2.00				24	
282	IL 120	310+03	RT	310+03	RT	W11-8	FIRE STATION	POLE	LIGHT POLE	36	36	9.00		1			
274						SPECIAL	DOUBLE LEFT TURN ONLY DOUBLE THROUGH ONLY	POLE		72	36	18.00		1			
283	IL 120	310+20	LT	310+20	LT	B3-2	NO TRUCKS	TELESCOPING	TELESCOPING	24	24	4.00				15	
284	IL 120	310+22	LT	310+25	LT	D3-1	STREET NAME (1-LINE) Elm St	TELESCOPING	TELESCOPING	24	12	2.00		1		15	
285						D3-1	STREET NAME (1-LINE) Millstream Dr			30	12	2.50					
TOTALS													27	87	44	1173	67

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USER NAME = joshea	DESIGNED -	REVISED - 05/19/2026
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/19/2026	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING SIGN SCHEDULE

SCALE: NTS	SHEET 3	OF 3	SHEETS	STA.	TO STA.
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F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	McHENRY	575	353
			CONTRACT NO.	62U72
		ILLINOIS	FED. AID PROJECT	

2 REVISD SHEET 6/02/2026

PROPOSED SIGN SCHEDULE

SIGN I.D.	LOCATION	PROPOSED		MUTCD or IDOT SIGN DESIGNATION	SIGN DESCRIPTION	PROPOSED MOUNTING TYPE	PROPOSED PANEL DIMENSIONS		72000100	72000200	72800100	72900100
		STATION	OFFSET				SIGN PANEL - TYPE 1	SIGN PANEL - TYPE 2	TELES STEEL SIGN SUPPORT	METAL POST TYPE A		
							WIDTH (IN)	HEIGHT (IN)	(SF)	(SF)	(FT)	(FT)
500	IL 31	401+80	MEDIAN	R4-7	KEEP RIGHT	TELESCOPING	24	30	5.00		15.5	
501				SPECIAL	U-TURN OR LEFT-TURN (SYMBOL)		24	30	5.00		15.5	
502	IL 31	405+81	LT	R2-1	SPEED LIMIT - 45 MPH	TELESCOPING	30	36	7.50		16	
503	IL 31	410+06	MEDIAN	SPECIAL	U-TURN OR LEFT-TURN (SYMBOL)	TELESCOPING	24	30	5.00		15.5	
504				R4-7	KEEP RIGHT		24	30	5.00		15.5	
505	IL 31	411+35	MEDIAN	R4-7	KEEP RIGHT	TELESCOPING	24	30	5.00		15.5	
506				SPECIAL	U-TURN OR LEFT-TURN (SYMBOL)		24	30	5.00		15.5	
507	IL 31	414+34	LT	R1-1	STOP	TELESCOPING	30	30	6.25		15.5	
508	IL 31	414+34	MEDIAN	R6-2R	ONE WAY	TELESCOPING	30	36	7.50		16	
509	IL 31	414+50	RT	R2-1	SPEED LIMIT - 40 MPH	TELESCOPING	30	36	7.50		16	
510	IL 31	420+88	MEDIAN	SPECIAL	U-TURN OR LEFT-TURN (SYMBOL)	TELESCOPING	24	30	5.00		15.5	
511				R4-7	KEEP RIGHT		24	30	5.00		15.5	
512	IL 31	421+81	MEDIAN	R4-7	KEEP RIGHT	TELESCOPING	24	30	5.00		15.5	
513				R3-I102	U-TURN (SYMBOL) ONLY		24	30	5.00		15.5	
514	IL 31	427+15	MEDIAN	SPECIAL	U-TURN OR LEFT-TURN (SYMBOL)	TELESCOPING	24	30	5.00		15.5	
515				R4-7	KEEP RIGHT		24	30	5.00		15.5	
516	IL 31	428+00	MEDIAN	R4-7	KEEP RIGHT	TELESCOPING	24	30	5.00		15.5	
517	IL 31	432+65	MEDIAN	SPECIAL	U-TURN OR LEFT-TURN (SYMBOL)	TELESCOPING	24	30	5.00		15.5	
518				R4-7	KEEP RIGHT		24	30	5.00		15.5	
519	IL 31	438+44	LT	R2-1	SPEED LIMIT - 40 MPH	TELESCOPING	30	36	7.50		16	
520	LILLIAN	198+67	LT	R2-1	SPEED LIMIT - 25 MPH	TELESCOPING	24	30	5.00		15.5	
521	GROVE	200+94	RT	R2-1	SPEED LIMIT - 25 MPH	TELESCOPING	24	30	5.00		18	
522				SPECIAL	SLOW CHILDREN		24	30	5.00			
523	IL 31	455+65	LT	R2-1	SPEED LIMIT - 35 MPH	LIGHT POLE	30	36	7.50			
524	IL 31	455+65	RT	R2-1	SPEED LIMIT - 30 MPH	LIGHT POLE	30	36	7.50			
525	IL 31	462+69	RT	R2-1	SPEED LIMIT - 30 MPH	TELESCOPING	30	36	7.50		16	
526	IL 31	463+34	LT	R2-1	SPEED LIMIT - 30 MPH	LIGHT POLE	30	36	7.50			
527	IL 31	469+70	RT	W11-2	PEDESTRIAN	LIGHT POLE	36	36	9.00			
528	IL 31	470+12	RT	D1-3R	DESTINATION - McHENRY COUTRY CLUB	TELESCOPING	42	42		12.25	20	
529				D1-3L	DESTINATION - McHENRY COUTRY CLUB		42	42		12.25		
530	IL 31	470+75	RT	R3-7R	MANDATORY LANE CONTROL - RIGHT	UTILITY POLE	36	36	9.00			
531	IL 31	473+28	RT	W11-2	PEDESTRIAN	TELESCOPING	36	36	9.00		17.2	
532	IL 31	475+47	LT	R5-1	DO NOT ENTER	TELESCOPING	36	36	9.00		16	
533	IL 31	475+80	LT	R3-2	MOVEMENT PROHIBITION - NO LEFT TURN	TELESCOPING	36	36	9.00		24.2	
534	IL 31	477+03	RT	D3-1	STREET NAME (1-LINE) Front St	TELESCOPING	24	12	2.00		14	
535	IL 31	477+20	RT	M6-1R	DIRECTIONAL ARROW - RIGHT	TELESCOPING	21	15	2.19		14.25	
536	IL 120	297+65	RT	R3-I100a	RIGHT TURN LANE	LIGHT POLE	24	24	4.00			
537	IL 120	299+03	MEDIAN	SPECIAL	U-TURN OR LEFT-TURN (SYMBOL)	TELESCOPING	24	30	5.00		15.5	
538				R4-7	KEEP RIGHT		24	30	5.00			
539	IL 120	300+98	MEDIAN	R4-7	KEEP RIGHT	TELESCOPING	24	30	5.00		15.5	
540				SPECIAL	ADVANCED INTERSECTION LANE CONTROL		36	30	7.50			
541	IL 31	480+60	RT	R7-1L	NO PARKING ANYTIME	METAL	12	18	1.50			12
542	LILLIAN	198+38	RT	SPECIAL	NO PARKING HERE TO CORNER	TELESCOPING	12	18	1.50		14.5	
543	IL 120	292+91	MEDIAN	R4-7	KEEP RIGHT	TELESCOPING	24	30	5.00			
544	IL 120	293+69	MEDIAN	R4-7	KEEP RIGHT	TELESCOPING	24	30	5.00			
545	IL 120	296+89	RT	R3-2	MOVEMENT PROHIBITION - LEFT TURN	TELESCOPING	36	36	9.00		16	
546	IL 120	309+42	MEDIAN	R3-5	MANDATORY LANE CONTROL - LEFT	TELESCOPING	30	36	7.50		15.5	
547				R4-7	KEEP RIGHT		24	30	5.00			
548	IL 120	310+30	MEDIAN	R4-7	KEEP RIGHT	TELESCOPING	24	30	5.00		16	
549				R3-5	MANDATORY LANE CONTROL - LEFT		30	36	7.50			
550	IL 31	473+42	LT	R3-2	MOVEMENT PROHIBITION - LEFT TURN	TELESCOPING	36	36	9.00		16	
551	IL 31	473+95	RT	R3-2	MOVEMENT PROHIBITION - LEFT TURN	TELESCOPING	36	36	9.00		16	
552	IL 31	475+18	LT	R3-2	MOVEMENT PROHIBITION - LEFT TURN	TELESCOPING	36	36	9.00		16	
TOTALS									306	25	608	12

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USER NAME = joshea	DESIGNED -	REVISED - 05/19/2026
	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 5/19/2026	DATE - 04/30/2024	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROPOSED SIGN SCHEDULE

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	354
CONTRACT NO. 62U72				
ILLINOIS		FED. AID PROJECT		

2 REVISD SHEET 6/02/2026

Benchmark: "I" in SE corner of concrete base of traffic signal in NW corner of IL 31 and Lillian St.
Northing: 2065120.91
Easting: 1000120.36
Elevation NGVD 88: 754.47

Existing Structure: S. No. 056-0227 consists of two single cell reinforced concrete box culverts of size 10'x4' and 4'x1.5' separated by 9'-3" with shared wingwalls and headwalls between them.

It is unknown when the original box culverts were constructed. In 1985 the culverts were lengthened by 10 feet on each end. The box culvert has an end to end length of 66 feet.

The existing 10'x4' cell be removed and replaced with a 12.5'x5' cell. The 4'x1.5' cell will remain in place. Construction will be performed in stages while maintaining two lanes of traffic, one in each direction and a sidewalk.

No Salvage.

Precast option is not allowed.

LOADING HL-93

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

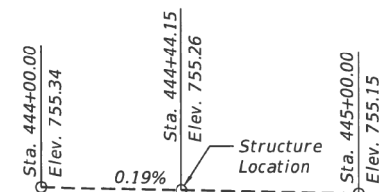
DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 Interims

THIS DOCUMENT IS FOR INFORMATION
AND REQUIRES ACTUAL FIELD
VERIFICATION

DESIGN STRESSES FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)



PROFILE GRADE (along roadway)

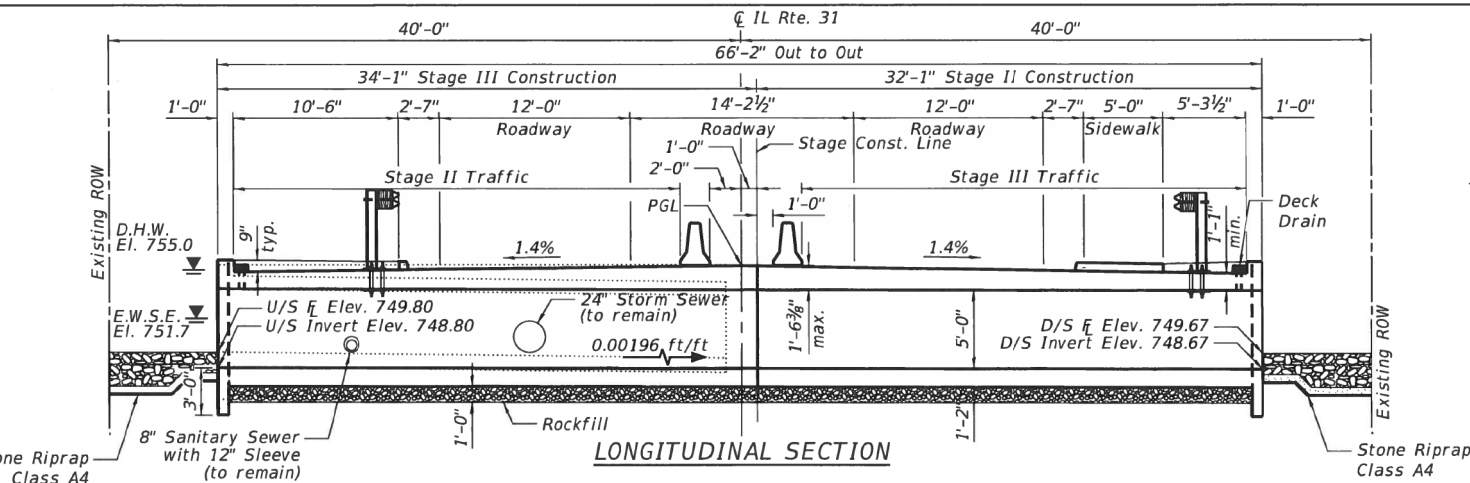
WATERWAY INFORMATION

Drainage Area = 2.82 sq. mi. Low Grade Elev. 754.32 (E),(P) @ Sta. 450+20									
Flood	Freq. Yr.	Q C.F.S.	Opening Ft ²		Nat. H.W.E.		Head - Ft.		Headwater El.
			Exist.*	Prop.*	Exist.	Prop.	Exist.	Prop.	
Design	50	840	36.0	37.5	754.4	0.4	0.4	754.8	754.8
Base	100	1151	36.0	37.5	755.0	0.1	0.1	755.1	755.1
Ex. Overtop	2	235	36.0	37.5	753.9	0.6	0.5	754.5	754.4
Pr. Overtop	2	235	36.0	37.5	753.9	0.6	0.5	754.5	754.4
Max. Calc.	500	2300	36.0	37.5	756.7	0.0	0.0	756.7	756.7

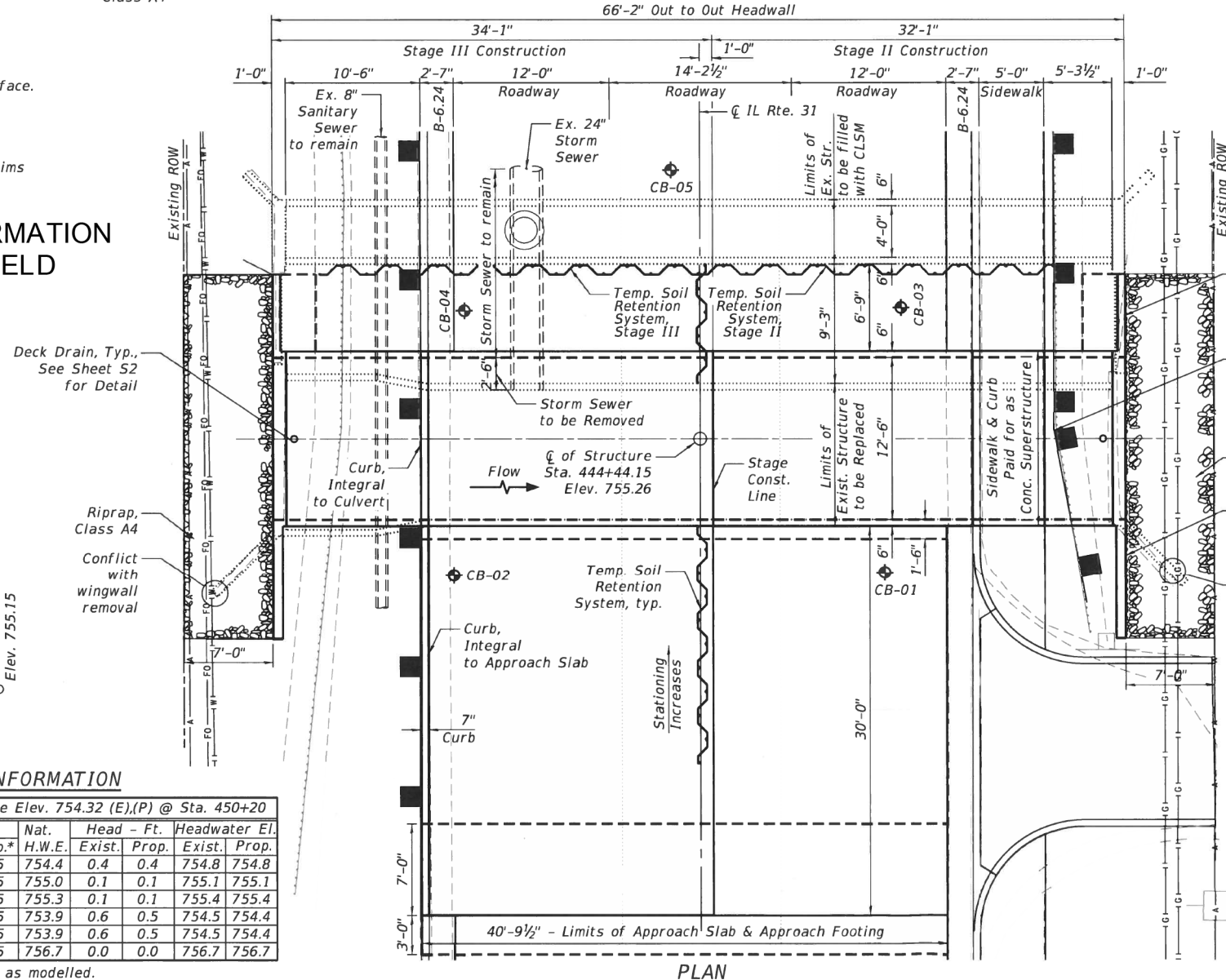
* Effectively as modelled.



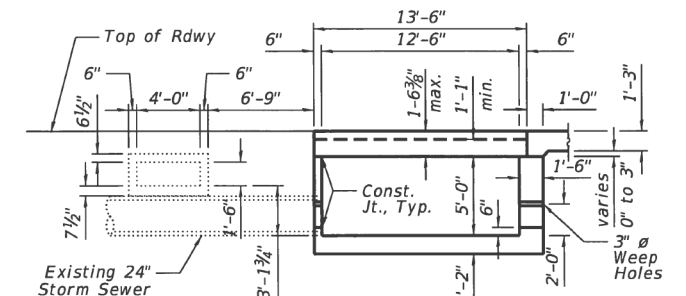
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LONGITUDINAL SECTION



PLAN



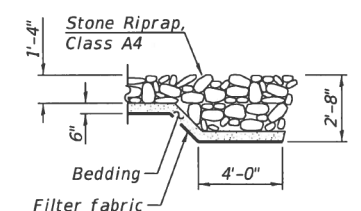
SECTION THRU BARREL (At IL Rte 31, Looking Downstream)

APPROVED
FOR STRUCTURAL ADEQUACY ONLY

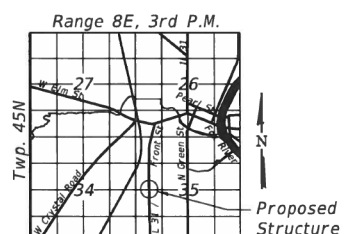
ENGINEER OF BRIDGES AND STRUCTURES



DATE: 12/07/2018
IL LICENSED PROFESSIONAL
LICENSE EXPIRES ON 11/30/2020



RIPRAP CLASS A4



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
IL ROUTE 31 OVER UNNAMED
TRIBUTARY TO FOX RIVER
F.A.P. ROUTE 336A
SECTION 2018-056-DR-1
MCHENRY COUNTY
STATION 444+44.15
STRUCTURE NO. 056-0105

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 056-0105

SHEET S1 OF S14 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	2018-056-DR-1	MCHENRY	71	39

CONTRACT NO. 62G48

ADDED ENTIRE SHEET 6/02/2026

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE TO BE REMOVED
SN-056-0105

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336A	FAP 336 23 RECON NORTH	MCHENRY	575	463A

CONTRACT NO. 62U72

ILLINOIS FED. AID PROJECT

THE USE OF CROSS STREET PAVEMENT SEPARATION JOINTS FOR SKEWED OR LARGE INTERSECTIONS WHERE JOINTS MAY NOT MATCH

