

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.S. RYE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	1
ILLINOIS CONTRACT NO. 74904				

D-97-021-19



PROPOSED HIGHWAY PLANS

FAS ROUTE 1806 (IL 250)
SECTION (2,3)RS-3
STP-T9CA(801)
RESURFACING (3P)
LAWRENCE COUNTY

C-97-033-19

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 2050 (2019)

STATION EQUATIONS

256+00.00 = 256+18.69
308+49.40 = 308+53.10
317+40.60 = 317+44.20
451+48.90 = 451+51.10
459+31.40 = 459+51.90
475+06.00 = 475+13.50
481+84.53 = 481+49.05
497+86.40 = 499+80.30
511+60.20 = 514+00.00
552+34.93 = 556+51.15

OMISSIONS

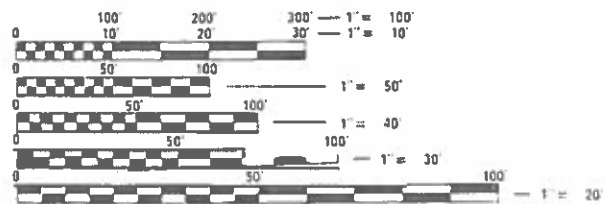
308+99.00 TO 309+21.00
323+90.00 TO 324+10.00
466+76.00 TO 469+90.00
497+24.10 TO 497+86.40
499+80.30 TO 501+21.00

URBAN

240+63.00 TO 259+82.70

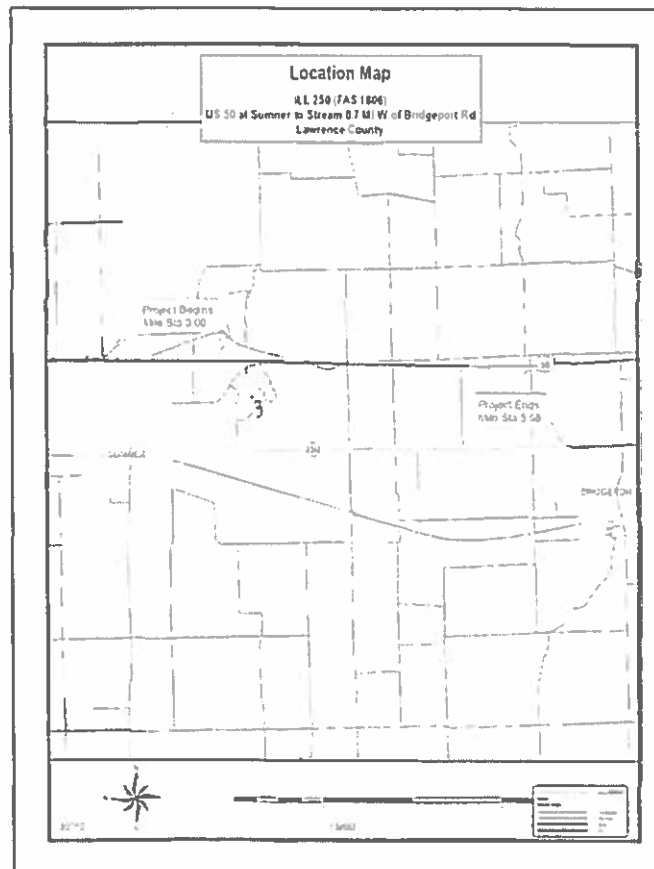
RURAL

259+82.70 TO 559+72.00



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
1-800-892-0123
OR 811



GROSS LENGTH = 31088 FT = 5.89 MILE
NET LENGTH = 30529 FT = 5.78 MILE

PROJECT ENGINEER TOM RONAN 217-342-8320
PROJECT MANAGER ROSS RUHOLL

CONTRACT NO. 74904

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED MARCH 04 2020
Jeffrey P. Myer REGIONAL ENGINEER
March 20 2020
See ETC ENGINEER OF DESIGN AND ENVIRONMENT
March 20 2020
James J. ... DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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GENERAL NOTES

A UNIFORMLY STRAIGHT SAW CUT SHALL BE MADE AT LOCATIONS WHERE PROPOSED NEW CONSTRUCTION WILL ABUT EXISTING HOT-MIX ASPHALT SURFACES. THE SAW CUT SHALL BE MADE FULL DEPTH THROUGH THE EXISTING SURFACE. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT ITEMS INVOLVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.

THE PAY ITEM HOT-MIX ASPHALT SURFACE REMOVAL 3 3/4" SHALL BE USED FOR THE MILLING TRANSITION AREAS GOING FROM 3 3/4" TO 1 1/2" AS SEEN IN THE PLANS.

THE EXISTING PAVEMENT SHALL BE PATCHED IN ACCORDANCE WITH SECTION 442 OF THE STANDARD SPECIFICATIONS AND THE SPECIAL PROVISIONS. THE QUANTITY OF PATCHING SHOWN ON THE PLANS IS AN ESTIMATE ONLY AND THE FINAL LOCATIONS AND QUANTITY SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD. REMOVAL AND REPLACEMENT OF THE PAVEMENT FOR THE BOX CULVERT REPLACEMENT SHALL BE PAID FOR AS CLASS D PATCHES.

THE MATERIAL USED FOR AGGREGATE WEDGE SHOULDERS, TYPE B AND AGGREGATE SURFACE COURSE, TYPE B SHALL BE CRUSHED STONE OR CRUSHED CONCRETE.

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR THE VARIOUS HOT-MIX ASPHALT LIFTS.

PAVEMENT MARKING SHALL BE APPLIED IN ACCORDANCE WITH SECTION 780 OF THE STANDARD SPECIFICATIONS. SHORT TERM PAVEMENT MARKING SHALL BE APPLIED TO THE MILLED SURFACE, BITUMINOUS MATERIALS (TACK COAT), BINDER, AND HOT-MIX ASPHALT SURFACE COURSE AS SPECIFIED IN SECTION 703 OF THE STANDARD SPECIFICATIONS. TEMPORARY TAPE SHALL BE USED ON THE SURFACE COURSE AND PAINT SHALL BE USED ON MILLED SURFACES.

ALL AREAS DISTURBED DURING CONSTRUCTION SHALL BE SEEDED WITH CLASS 2 SEEDING. THE SEEDED AREAS SHALL BE FERTILIZED WITH NITROGEN, PHOSPHOROUS, AND POTASSIUM AT AN APPLICATION RATE OF 90 POUNDS/ACRE. THE SEEDED AREAS SHALL ALSO HAVE AGRICULTURAL GROUND LIMESTONE APPLIED AT A RATE OF 4 TONS/ACRE AND BE COVERED WITH MULCH AT THE RATE OF 2 TONS/ACRE. THE MULCH SHALL BE APPLIED IN ACCORDANCE WITH SECTION 251 OF THE STANDARD SPECIFICATIONS. THE EMBANKMENT, SEEDING, FERTILIZER, AND MULCH WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF PRECAST CONCRETE BOX CULVERT 4' X 2'.

THE TOTAL QUANTITY OF PAINT PAVEMENT MARKING-LINE 4" CONSISTS OF 61,492 FEET OF WHITE AND 26,695 FEET OF YELLOW.

THE TOTAL QUANTITY OF THERMOPLASTIC PAVEMENT MARKING-LINE 24" CONSISTS OF 56 FEET OF WHITE.

THE TOTAL QUANTITY OF RAISED REFLECTIVE PAVEMENT MARKERS IS 386 TWO-WAY AMBER MARKERS.

THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE. FIELD MARKING OF FACILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96 HOURS ADVANCED NOTICE THROUGH THE J.U.L.I.E. SYSTEM BY CALLING 800-892-0123.

RESIDENT ENGINEER CAN CONTACT DESIGN FOR TRAVERSE TIE POINTS AND CENTERLINE TIE POINTS.

EXISTING ROW, AROUND BOX CULVERT REPLACEMENT, IS 25' IN BOTH DIRECTIONS FROM CENTERLINE.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

AGGREGATE SURFACE COURSE	2.05 TONS/CU YD
AGGREGATE WEDGE SHOULDERS	2.05 TONS/CU YD
BIT. MATERIALS (TACK COAT)	0.05 LBS/SQ FT (MILLED SURFACE) 0.025 LBS/SQ FT (BETWEEN HMA LIFTS)
HOT-MIX ASPHALT	112 LBS/SQ YD/INCH

APPLICATION	AC/PG	DESIGN AIR Voids	MIXTURE COMPOSITION	FRICTION AGGREGATE	QUALITY MANAGEMENT
HMA SURFACE COURSE, MIX "C", N70 (2")	PG 64-22	4.0% @ N=70	IL - 9.5	MIXTURE C	PFP
HMA BINDER COURSE, IL-9.5FG, N70, (1 3/4")	PG 64-22	4.0% @ N=70	IL - 9.5FG	N/A	PFP
INCIDENTAL HMA SURFACING	PG 64-22	4.0% @ N=70	IL - 9.5	MIXTURE C	QC/QA
CLASS "D" PAVEMENT PATCHING	PG 64-22	4.0% @ N=70	IL - 19.0	N/A	QC/QA
HMA SURFACE COURSE, MIX "C", N70 (1 1/2" - BRIDGE DECK)	PG 64-22	4.0% @ N=70	IL - 9.5FG	MIXTURE C	QC/QA

1	COVER SHEET
2	INDEX OF SHEETS AND GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6-8	SCHEDULE OF QUANTITIES
9-19	PLAN SHEETS
20-22	STRUCTURE DETAILS
23-24	ENTRANCE SCHEDULE
25	ENTRANCE DETAILS
26-29	PAVEMENT MARKING DETAILS
30	RIPRAP DETAIL
31-32	BOX CULVERT DETAILS

STD. NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
406201-01	MAILBOX TURNOUT
442201-03	CLASS C AND D PATCHES
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L,2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS >= 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS - DAY ONLY
701316-13	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS >= 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

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INDEX OF SHEETS &
GENERAL NOTES

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

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	2
CONTRACT NO. 74904				
ILLINOIS FED. AID PROJECT				

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80% FED
20% STATE

80% FED
20% STATE

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005 RURAL	0005 URBAN
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD	L SUM	1	0.95	0.05
	701306				
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	14	14
70300100	SHORT TERM PAVEMENT MARKING	FOOT	9399	8835	564
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	1061	997	64
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	88187	82896	5291
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	56	56	
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	56	56	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	88187	82896	5291
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	386	362	24
X0326440	SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)	SO YD	2598	2511	87
X1200050	BOX CULVERT REMOVAL	FOOT	31.3	31.3	
X4060995	TEMPORARY RAMP, SPECIAL	SO YD	30	9	21

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005 RURAL	0005 URBAN
X4406675	PARTIAL DEPTH REMOVAL, TYPE IV, 7.5"	SO YD	11570	10870	700
X4421000	PARTIAL DEPTH PATCHING	TON	4860	4560	300
* X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	56	56	
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SO YD	396	396	
Z0005010	HOT-MIX ASPHALT FOR PATCHING POTHOLES (COLD MIX)	TON	1	1	
Z0016200	DECK SLAB REPAIR (PARTIAL)	SO YD	19	19	
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	31069	29168	1901
Z0049799	PROTECTING OR RESETTING SURVEY MARKERS	EACH	5	4	1
* Z0054505	ROCK FILL - REPLACEMENT	TON	11.2	11.2	
Z0070202	SURVEY MARKER VAULT	EACH	5	4	1

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

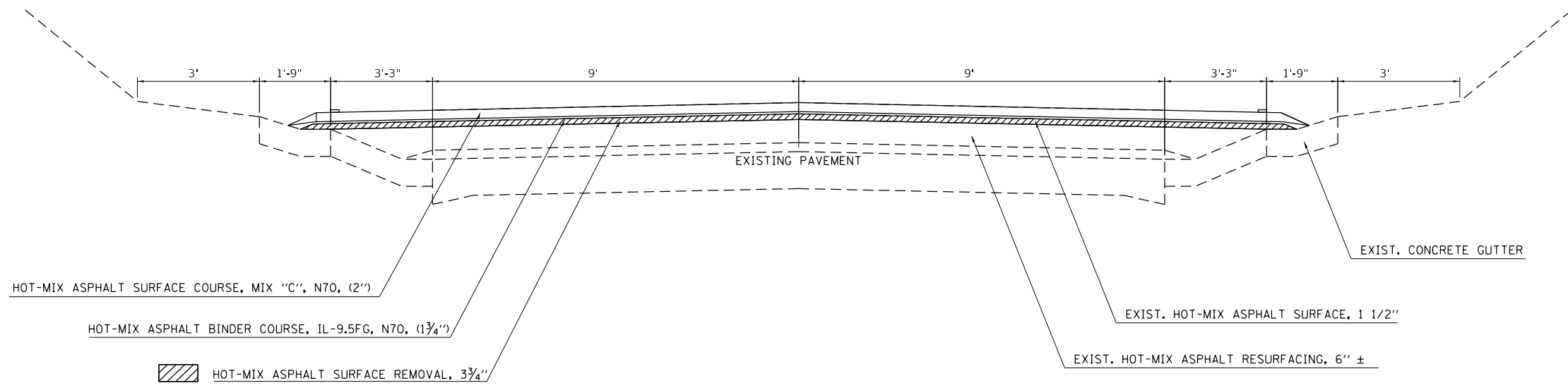
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1806	(2,3)RS-3	LAWRENCE	32	4
CONTRACT NO. 74904			ILLINOIS FED. AID PROJECT	

TYPICAL CROSS SECTIONS

① STATION 240+63 TO STATION 256+34 ②

③ STATION 338+00 TO STATION 349+00 ④

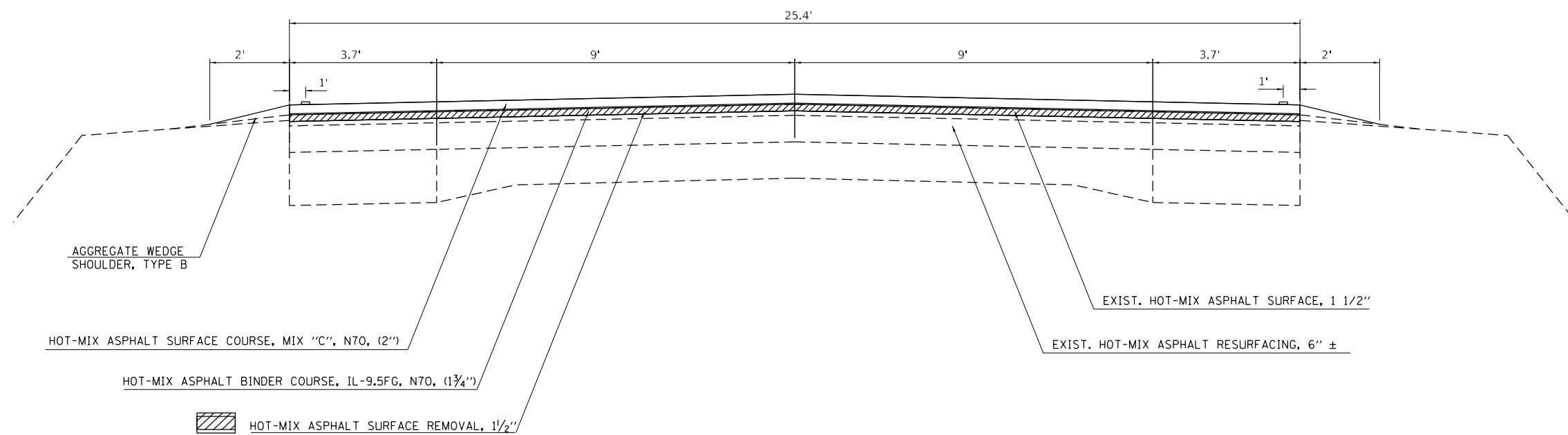


NOTE: NOT DRAWN TO SCALE

TYPICAL CROSS SECTIONS

② STATION 256+34 TO STATION 338+00 ③

④ STATION 349+00 TO STATION 559+72 ⑤



NOTE: NOT DRAWN TO SCALE

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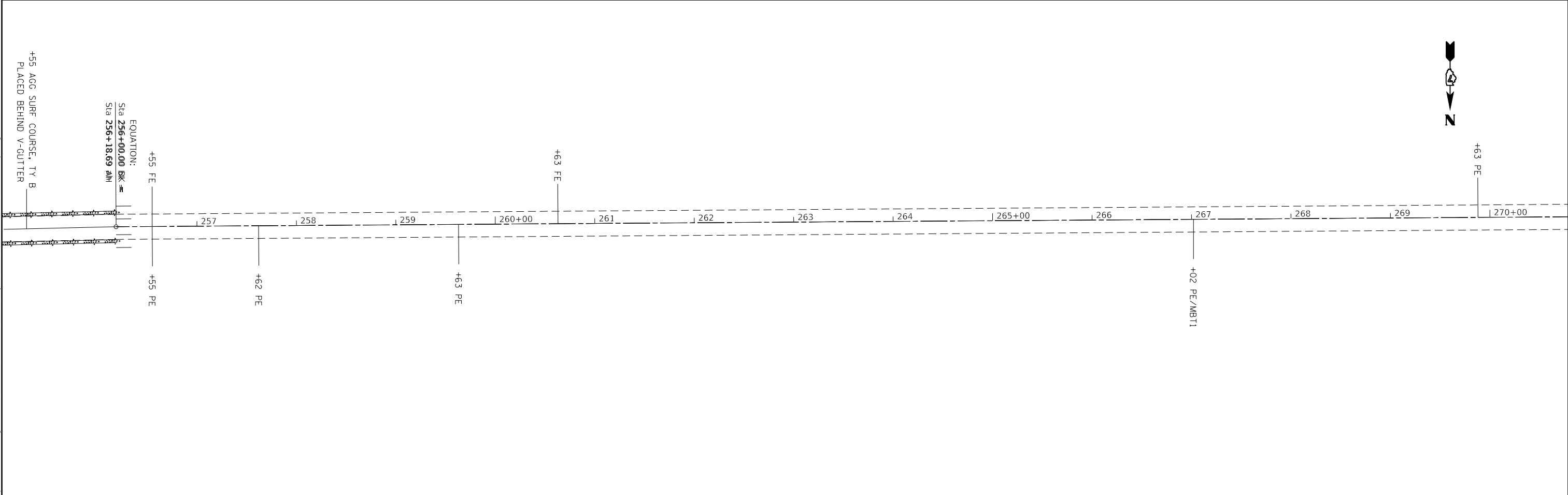
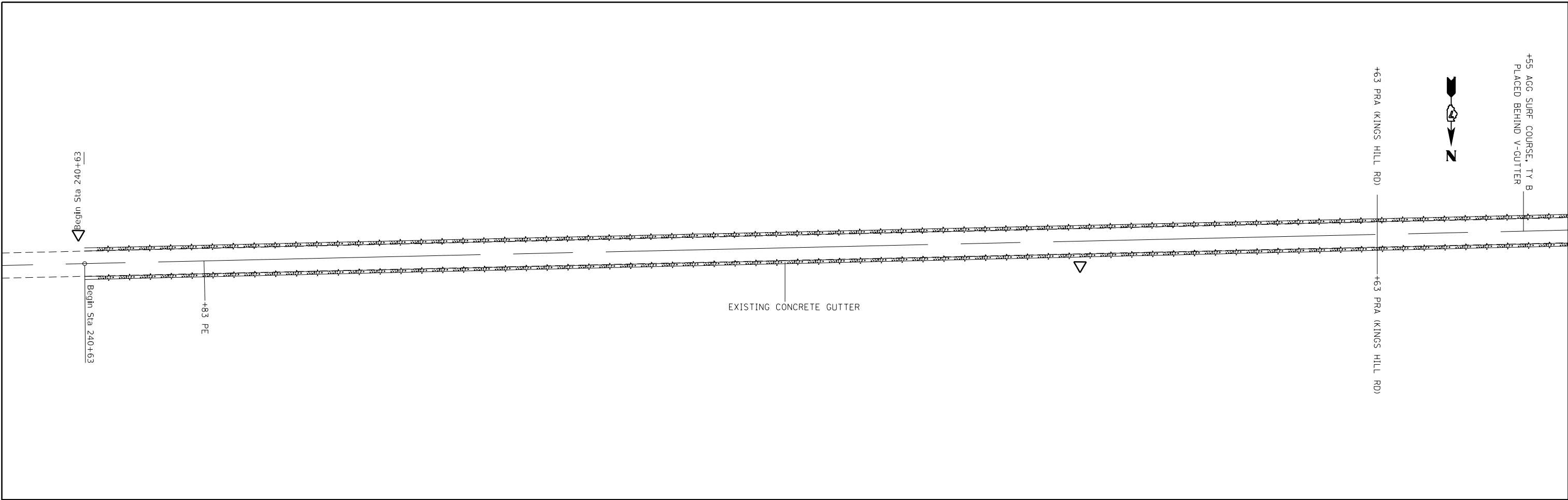
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TYPICAL SECTIONS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	5
CONTRACT NO. 74904				
ILLINOIS FED. AID PROJECT				



EQUATION:
 Sta 256+00.00 $E_{K} =$
 Sta 256+18.69 R_{H}

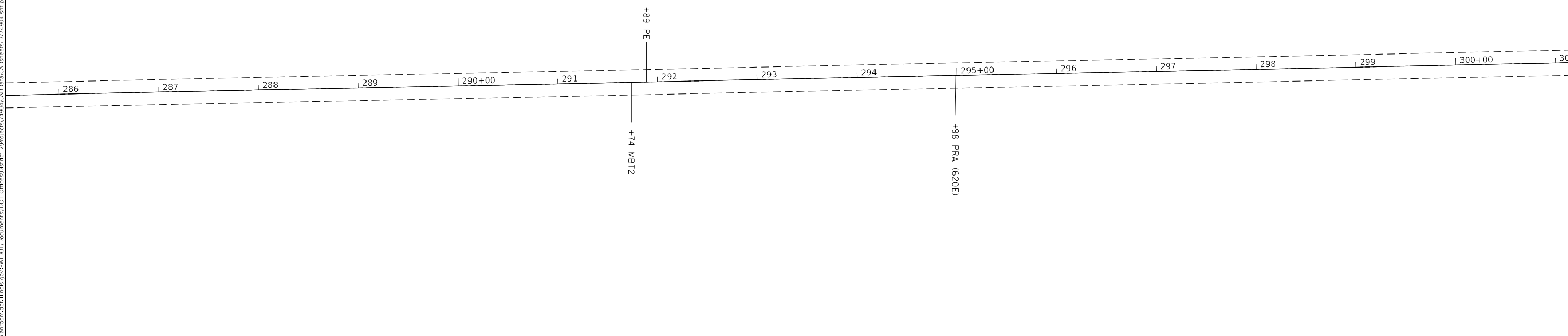
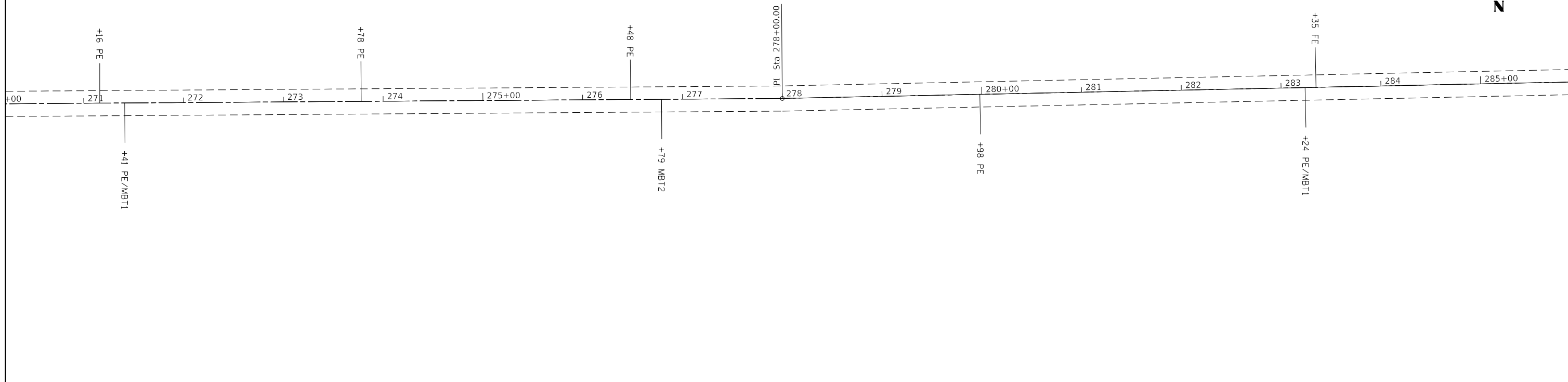
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 DEPARTMENT OF TRANSPORTATION**

PLAN SHEETS			
SCALE:	SHEET 1	OF 11 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	9
CONTRACT NO. 74904			ILLINOIS FED. AID PROJECT	



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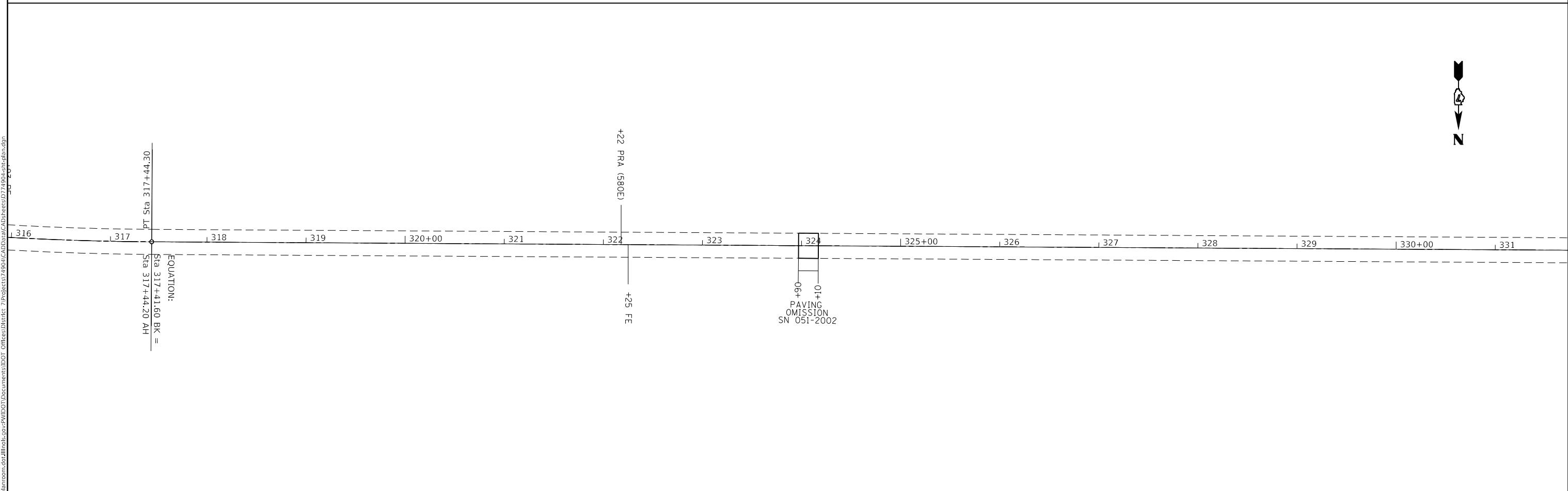
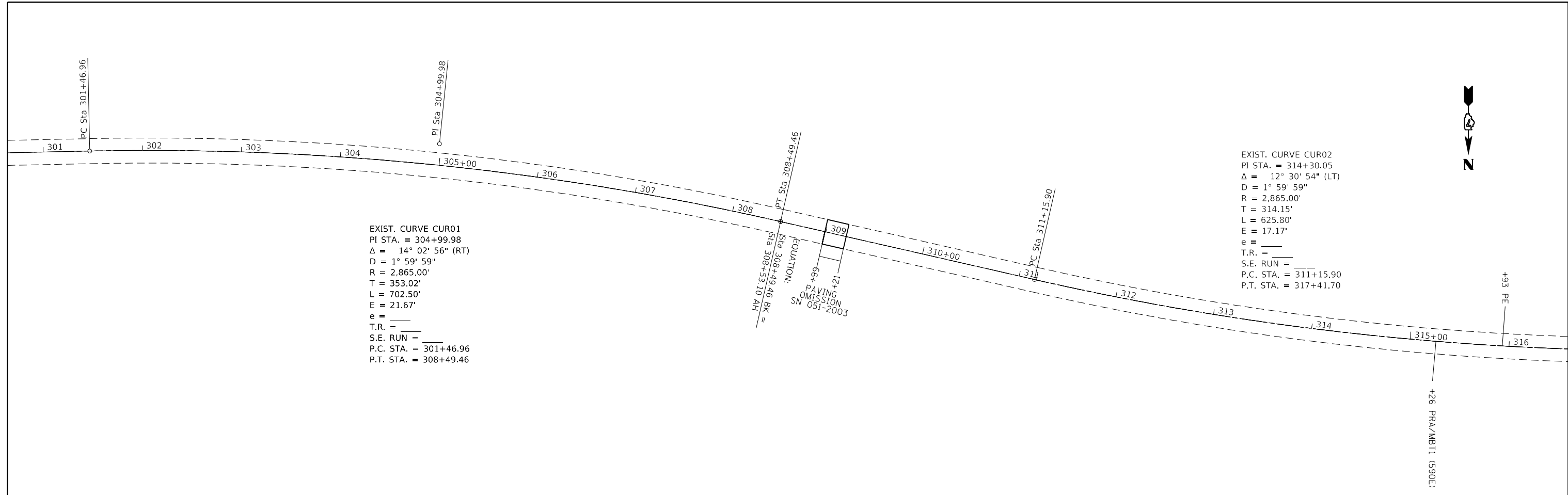
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PLAN SHEETS

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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	10
CONTRACT NO. 74904				
ILLINOIS FED. AID PROJECT				



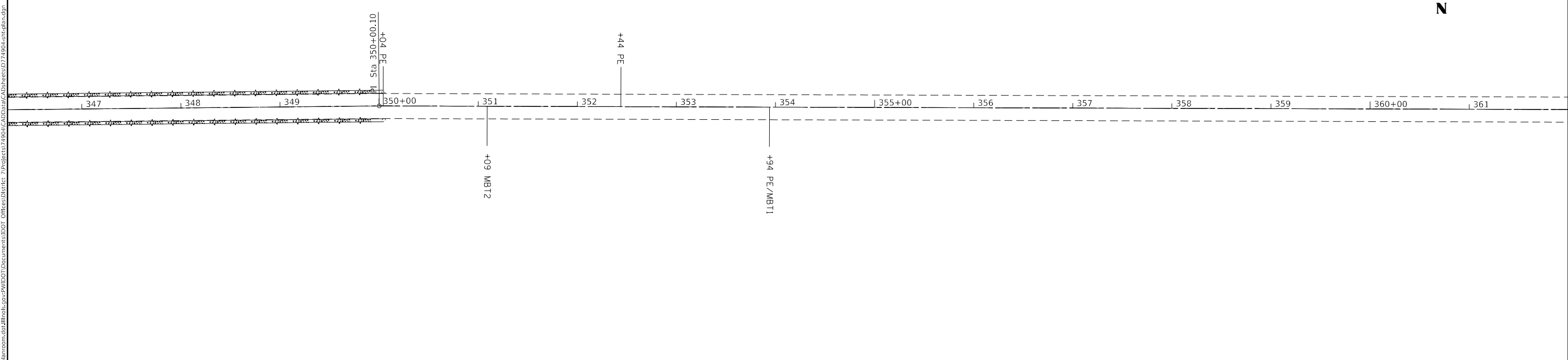
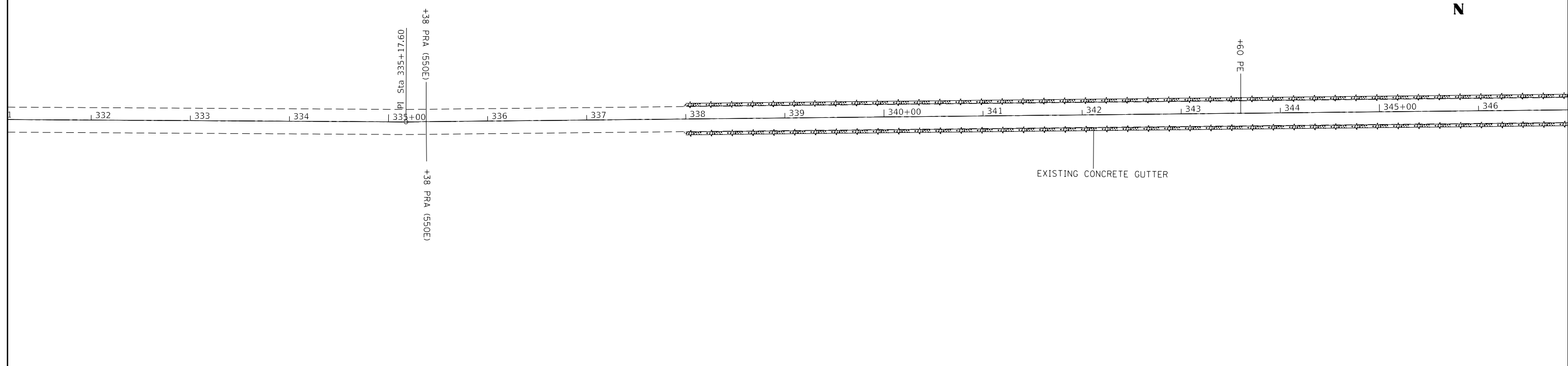
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PLAN SHEETS			
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	11
CONTRACT NO. 74904				
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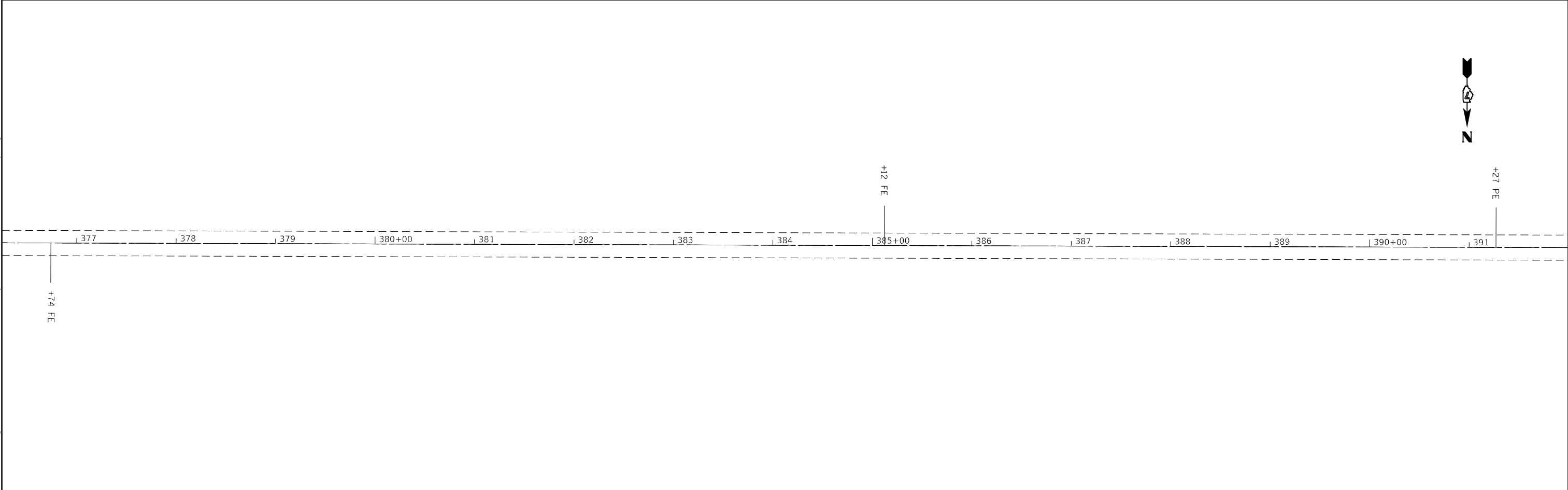
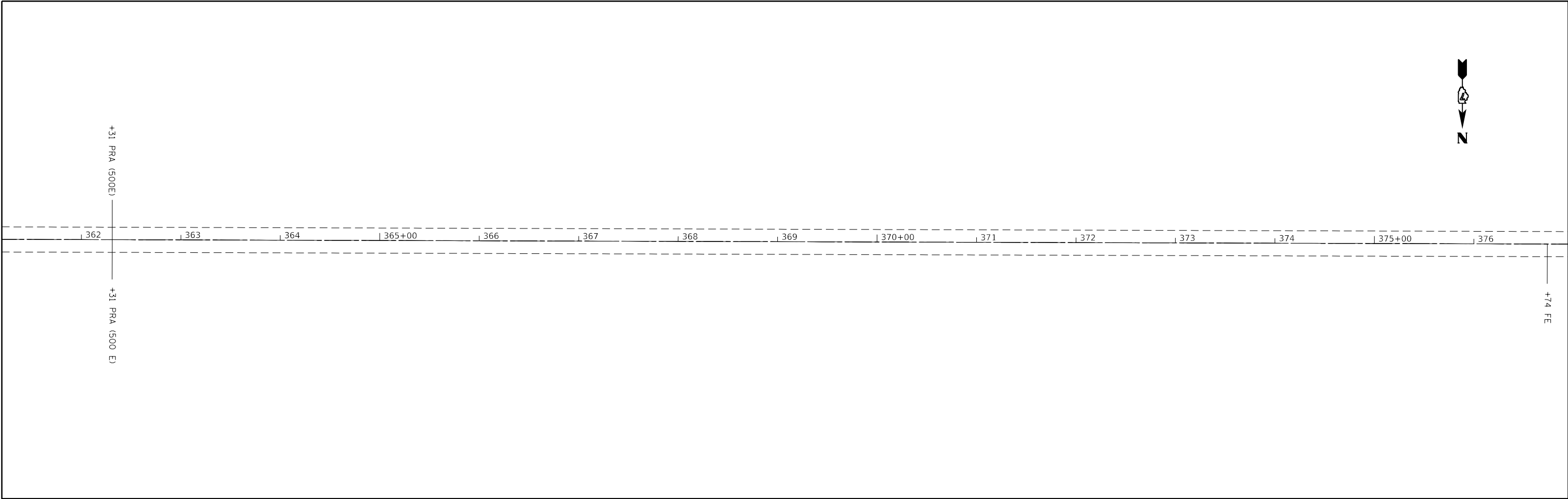
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PLAN SHEETS			
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CONTRACT NO. 74904			ILLINOIS FED. AID PROJECT	



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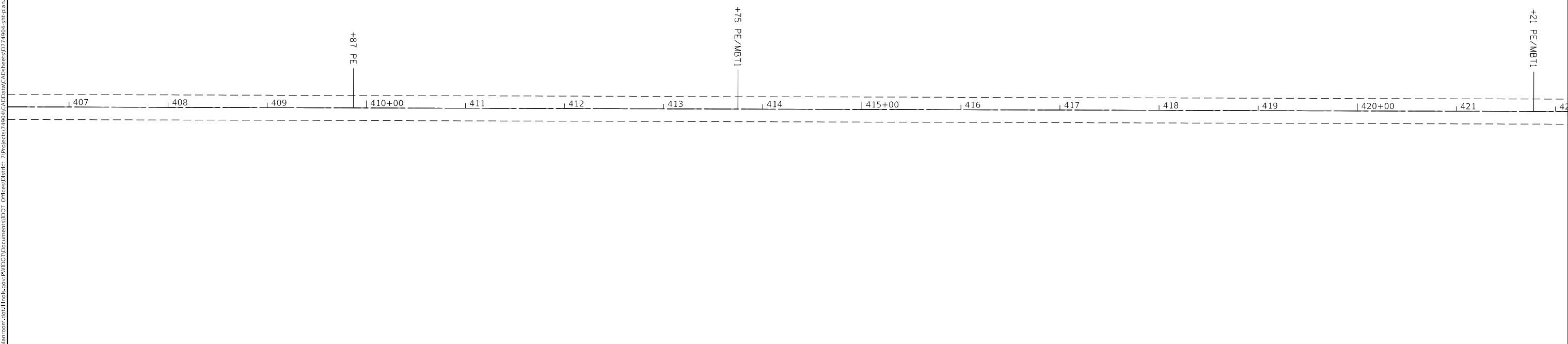
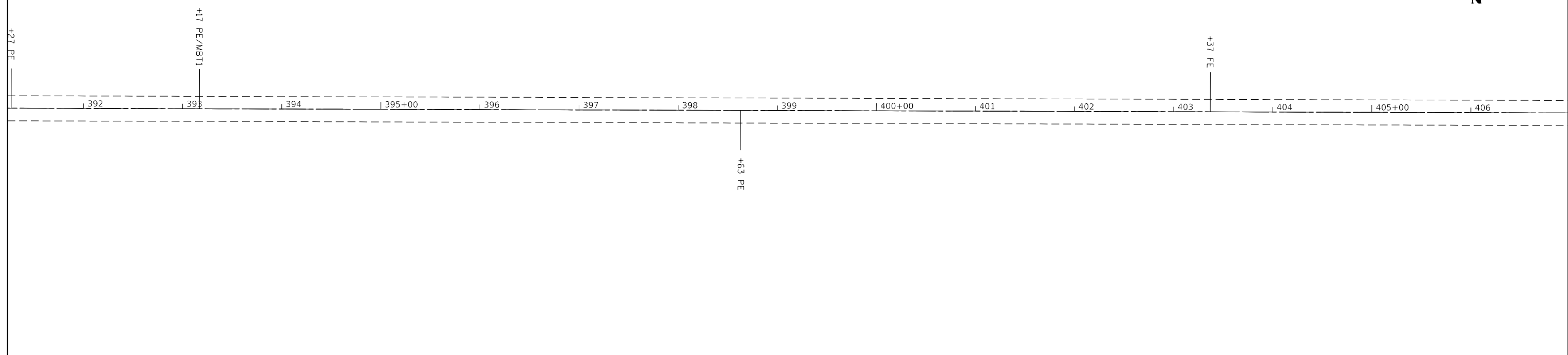
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**STATE OF ILLINOIS
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PLAN SHEETS

SCALE: SHEET 5 OF 11 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	13
CONTRACT NO. 74904			ILLINOIS FED. AID PROJECT	



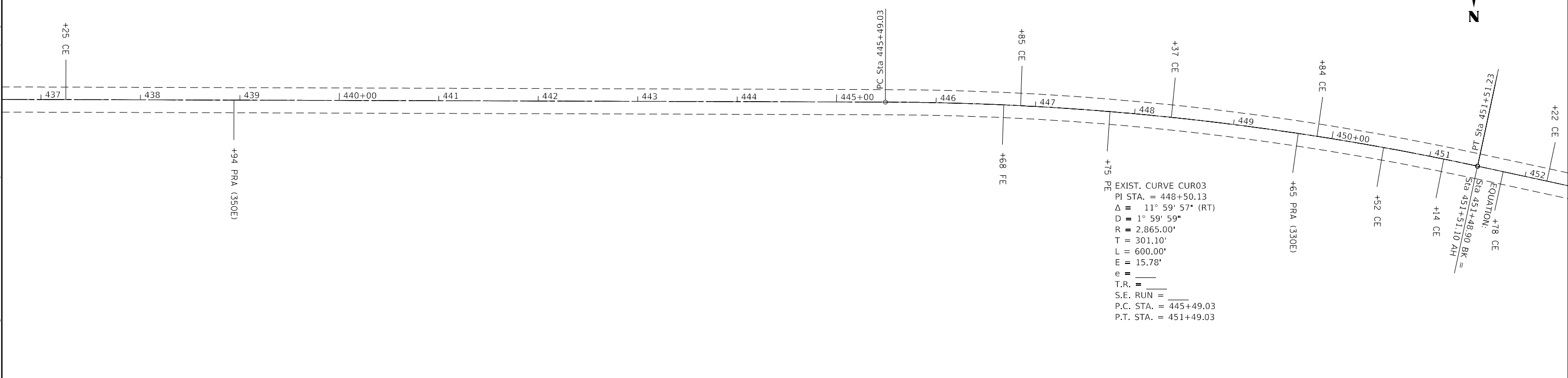
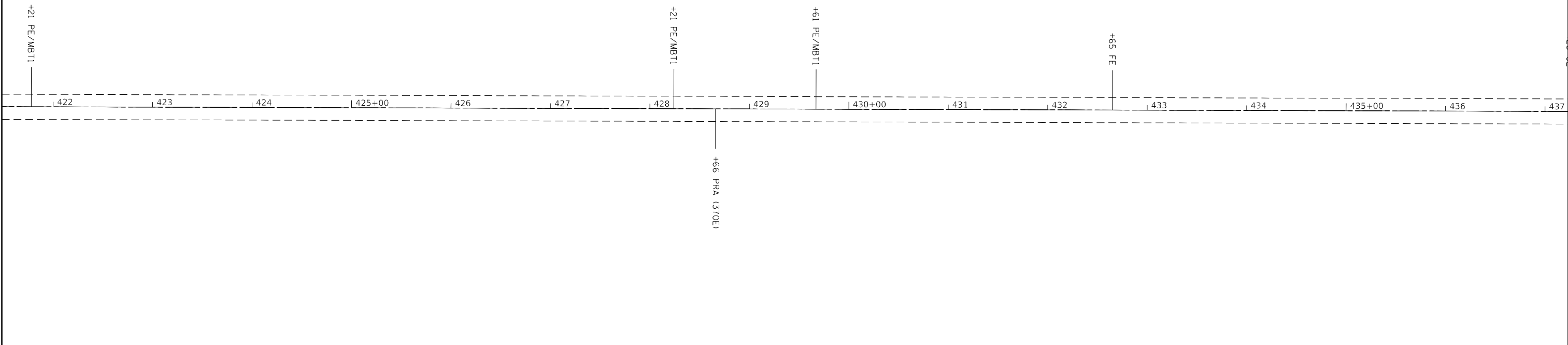
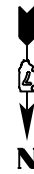
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PLAN SHEETS
 SCALE: SHEET 6 OF 11 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74904				
ILLINOIS FED. AID PROJECT				



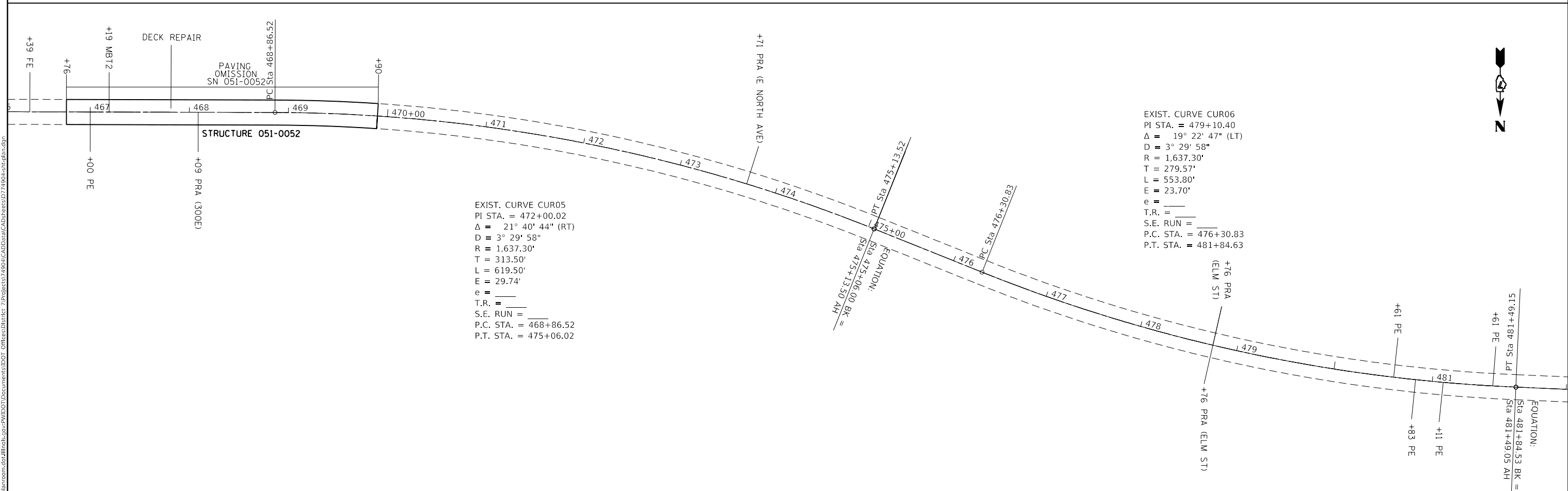
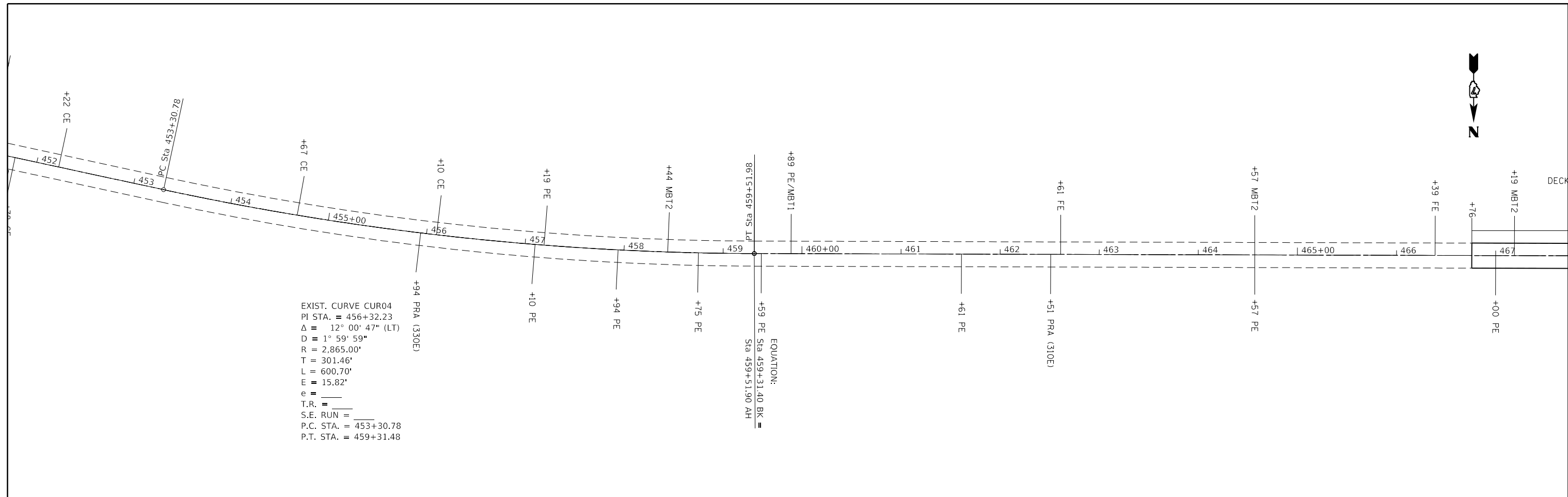
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PLAN SHEETS			
SCALE:	SHEET 7	OF 11 SHEETS	STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 74904				
ILLINOIS		FED. AID PROJECT		



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**STATE OF ILLINOIS
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PLAN SHEETS			
SCALE:	SHEET 8	OF 11 SHEETS	STA. TO STA.

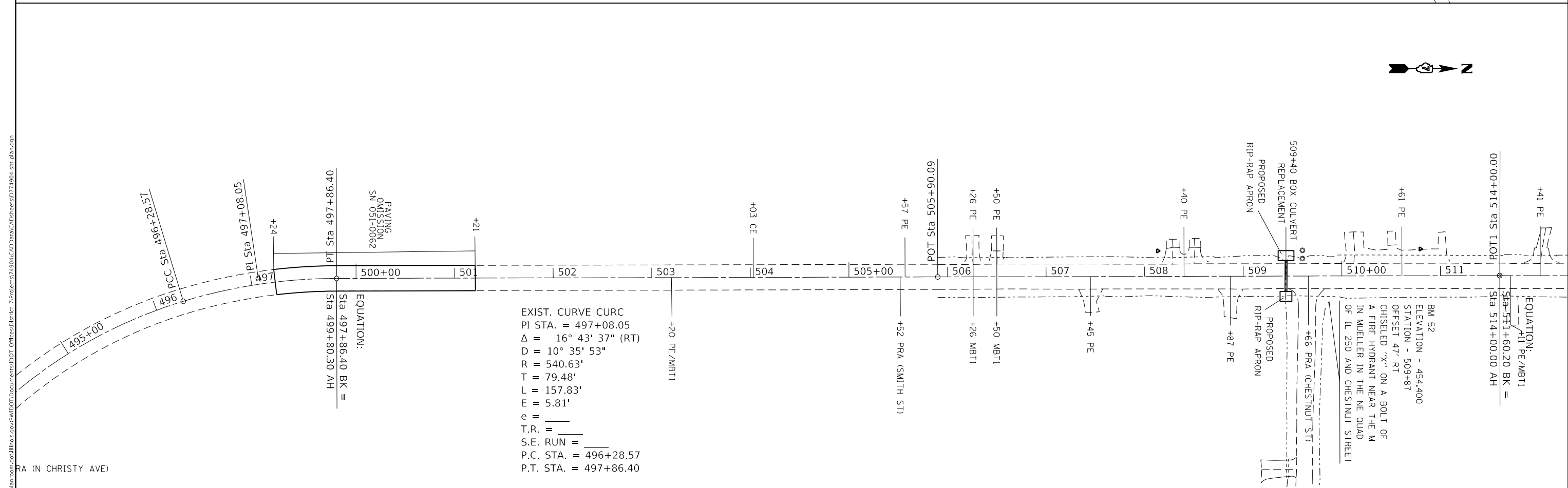
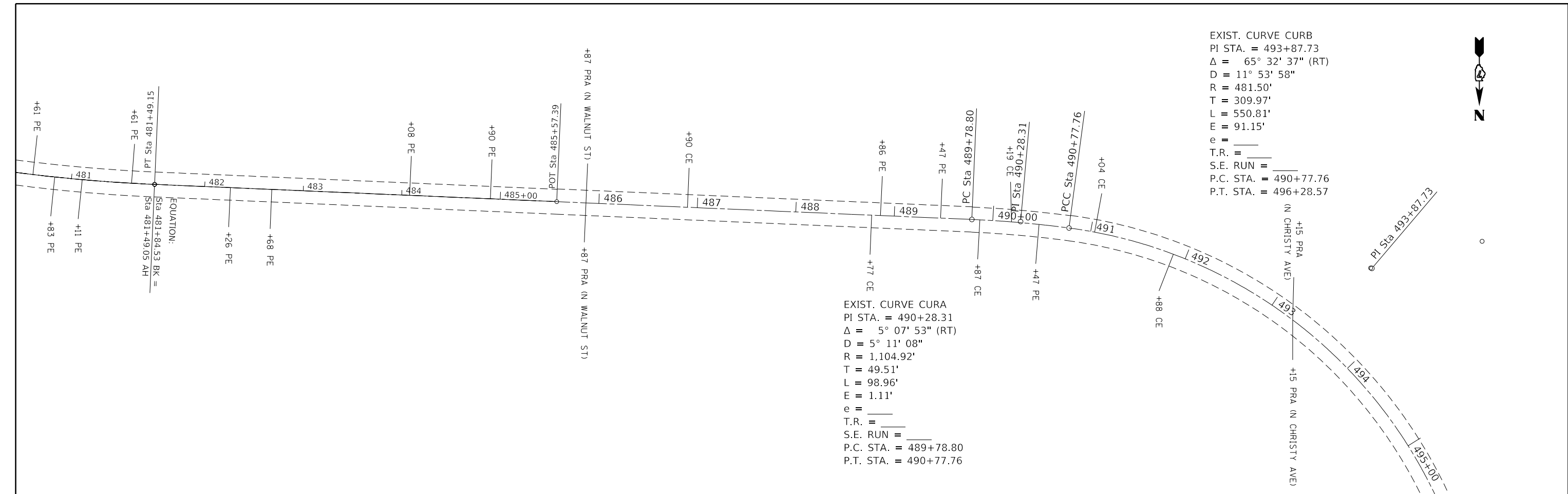
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	16
CONTRACT NO. 74904			ILLINOIS FED. AID PROJECT	

EXIST. CURVE CURB
 PI STA. = 493+87.73
 $\Delta = 65^\circ 32' 37''$ (RT)
 $D = 11^\circ 53' 58''$
 $R = 481.50'$
 $T = 309.97'$
 $L = 550.81'$
 $E = 91.15'$
 $e =$ _____
 T.R. = _____
 S.E. RUN = _____
 P.C. STA. = 490+77.76
 P.T. STA. = 496+28.57



EXIST. CURVE CURA
 PI STA. = 490+28.31
 $\Delta = 5^\circ 07' 53''$ (RT)
 $D = 5^\circ 11' 08''$
 $R = 1,104.92'$
 $T = 49.51'$
 $L = 98.96'$
 $E = 1.11'$
 $e =$ _____
 T.R. = _____
 S.E. RUN = _____
 P.C. STA. = 489+78.80
 P.T. STA. = 490+77.76

EXIST. CURVE CURC
 PI STA. = 497+08.05
 $\Delta = 16^\circ 43' 37''$ (RT)
 $D = 10^\circ 35' 53''$
 $R = 540.63'$
 $T = 79.48'$
 $L = 157.83'$
 $E = 5.81'$
 $e =$ _____
 T.R. = _____
 S.E. RUN = _____
 P.C. STA. = 496+28.57
 P.T. STA. = 497+86.40



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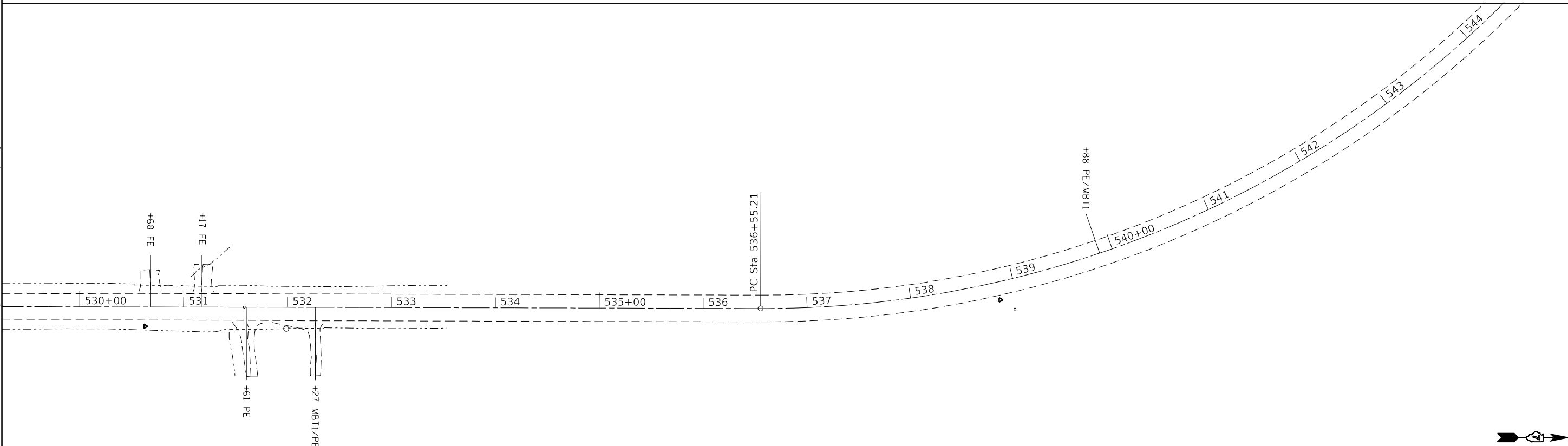
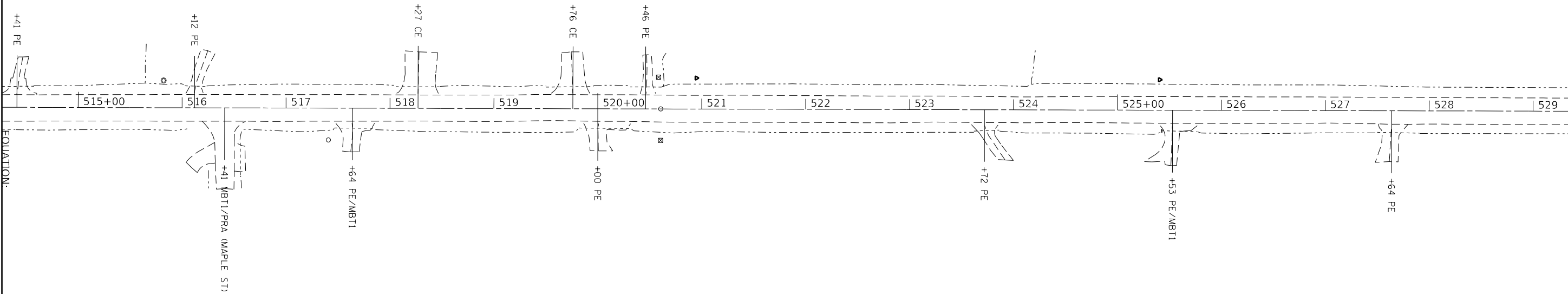
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PLOT DATE = 1/29/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN SHEETS

SCALE: SHEET 9 OF 11 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	17
CONTRACT NO. 74904				
ILLINOIS FED. AID PROJECT				



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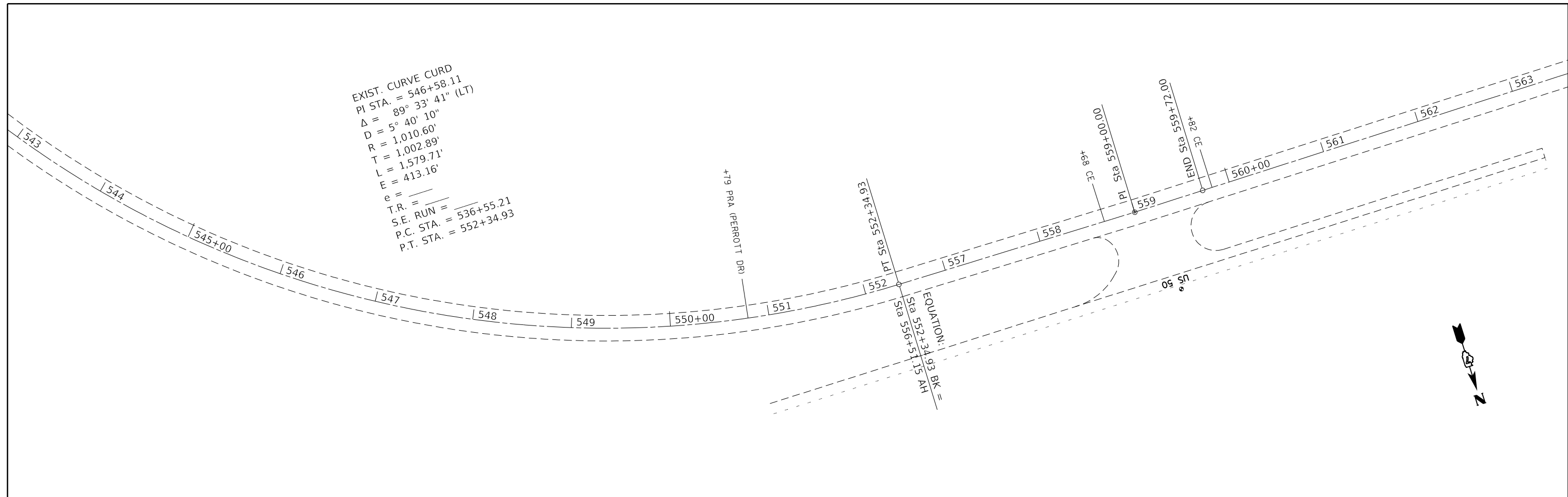
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PLOT DATE = 1/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEETS			
SCALE:	SHEET 10	OF 11 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	18
CONTRACT NO. 74904				
ILLINOIS FED. AID PROJECT				

EXIST. CURVE CURD
 PI STA. = 546+58.11
 $\Delta = 89^\circ 33' 41''$ (LT)
 $D = 5^\circ 40' 10''$
 $R = 1,010.60'$
 $T = 1,002.89'$
 $L = 1,579.71'$
 $E = 413.16'$
 $e = \text{---}$
 $T.R. = \text{---}$
 $S.E. RUN = 536+55.21$
 $P.C. STA. = 552+34.93$
 $P.T. STA. = 552+34.93$



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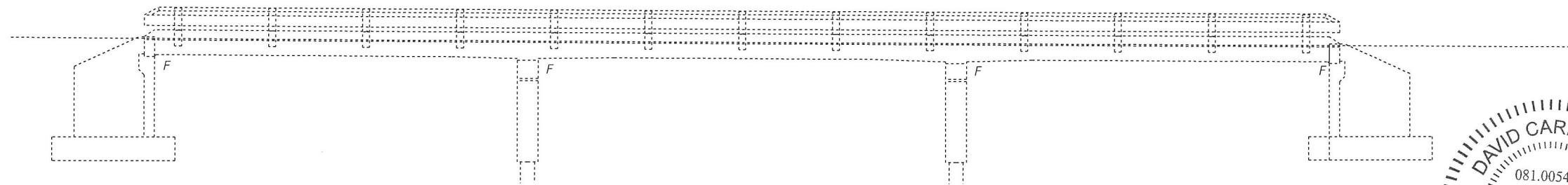
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PLOT DATE = 1/29/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

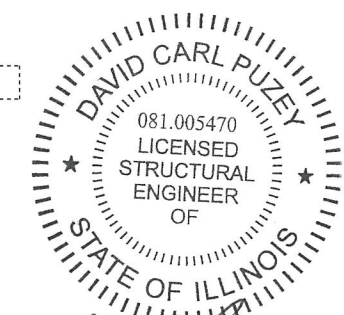
PLAN SHEETS			
SCALE:	SHEET 11	OF 11 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	19
CONTRACT NO. 74904				
ILLINOIS FED. AID PROJECT				

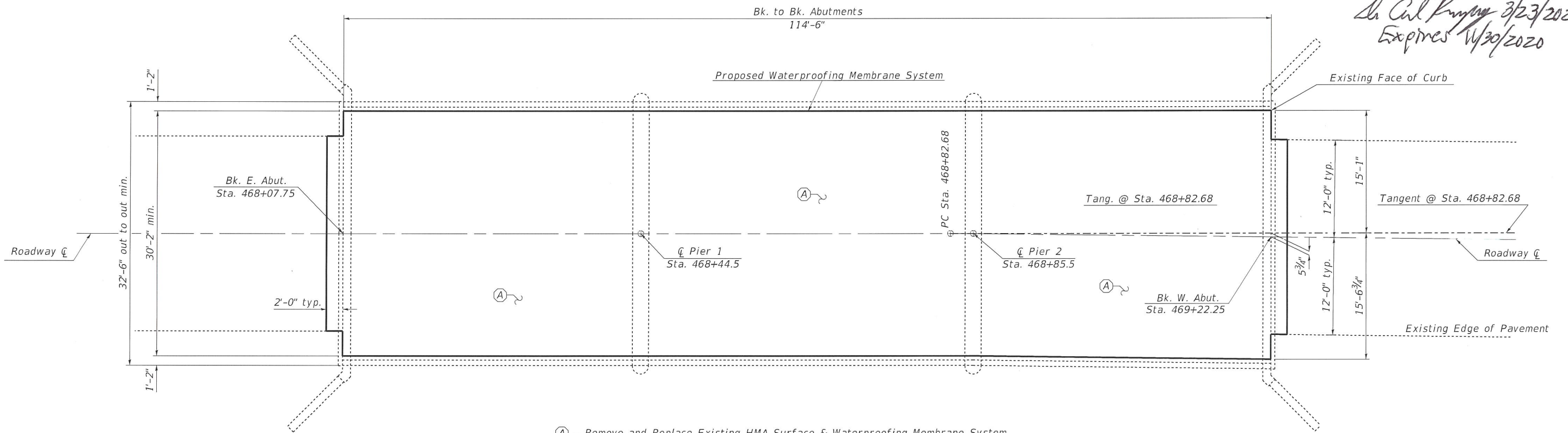
SN. 051-0052 carries FAS 1806 (ILL Route 250) over Muddy Creek. The existing three-span reinforced concrete slab structure was constructed in 1976 as FAS 1806, Section 3BR-1, at Sta. 468+65. The existing deck slab varies from 16 1/2" to 20" with an existing bituminous wearing surface and waterproofing membrane. The proposed project consists of removal of existing bituminous wearing surface and waterproofing membrane, partial depth deck repair, new waterproofing membrane system, and new bituminous wearing surface.



ELEVATION



*David Carl Puzey 3/23/2020
Expires 11/30/2020*



(A) - Remove and Replace Existing HMA Surface & Waterproofing Membrane System

PLAN

MODEL: Default
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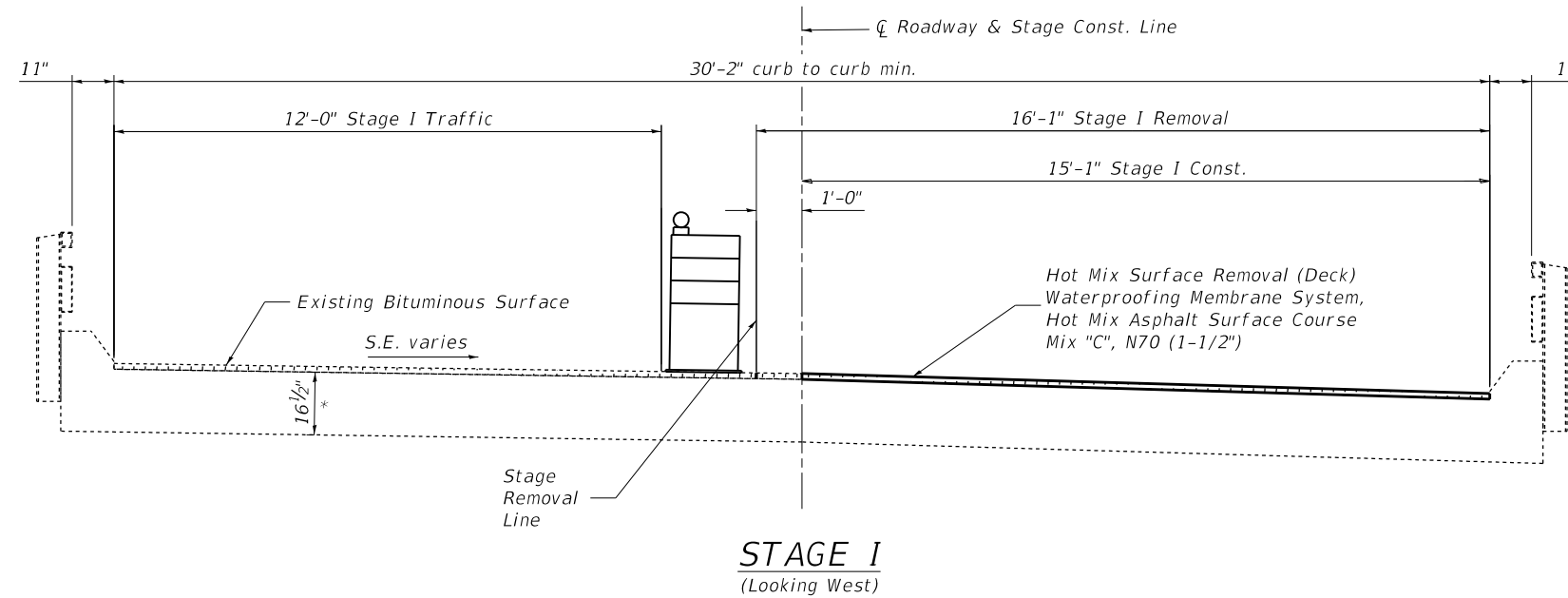
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DRAWN -	REVISOR -	REVISION -
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PLOT DATE = 1/29/2020	DATE -	REVISION -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

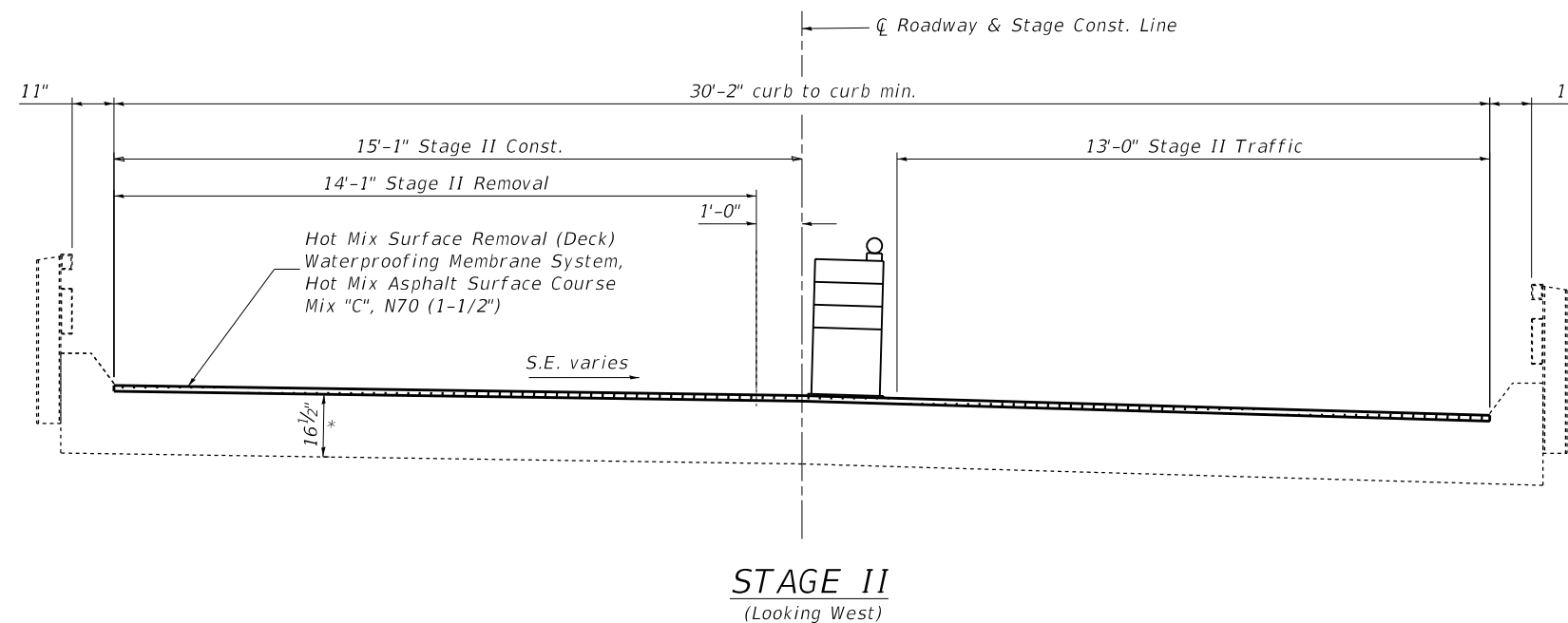
**GENERAL PLAN & ELEVATION
S.N. 051-0052**

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	20
CONTRACT NO. 74904			ILLINOIS FED. AID PROJECT	



* Slab thickness 16-1/2" to 20"



* Slab thickness 16-1/2" to 20"

STRUCTURE GENERAL NOTES

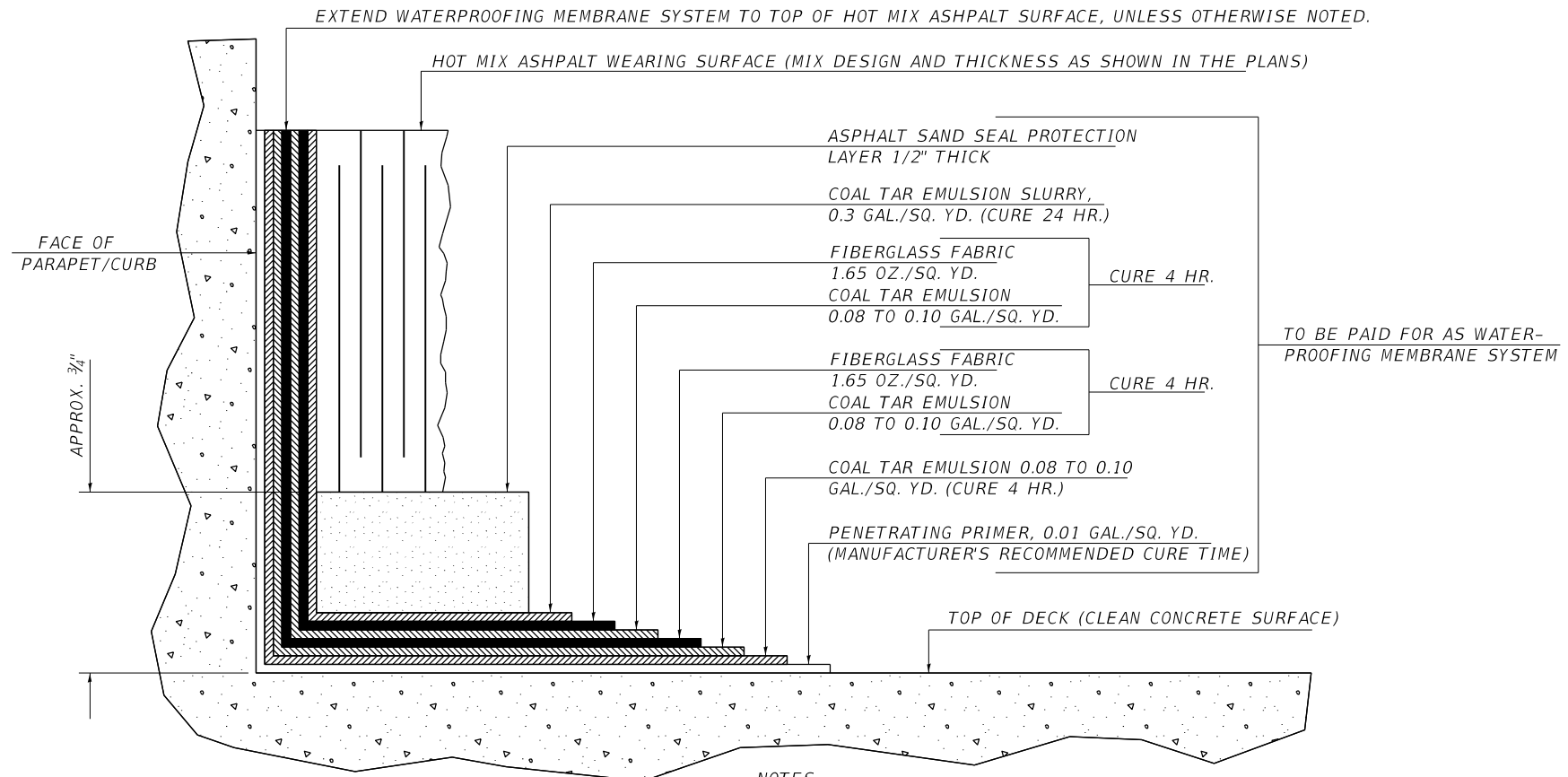
Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensations for a change in scope of the work; however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

The quantity of deck slab repair (partial depth) is estimated. The engineer shall determine the actual quantities and locations.

STRUCTURE BILL OF MATERIALS

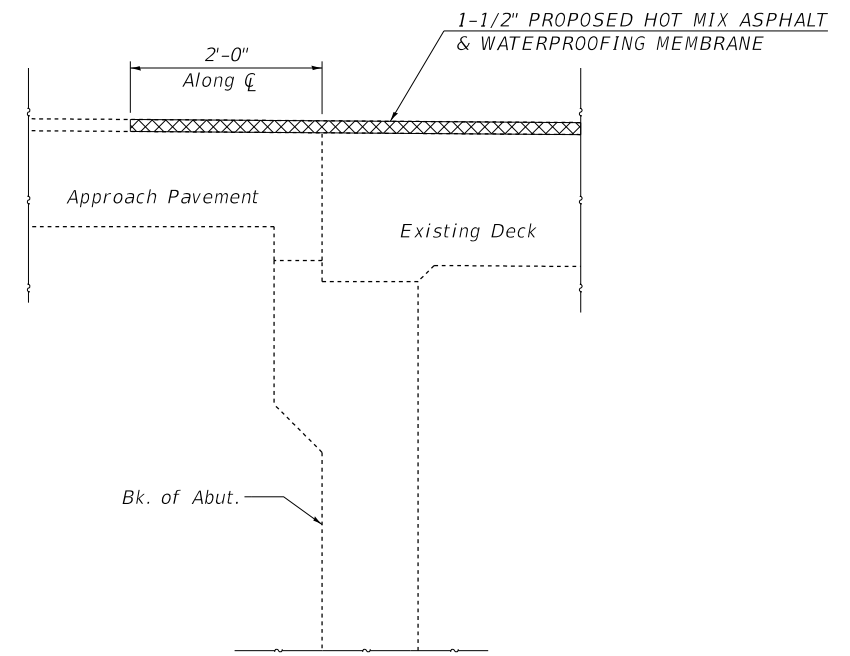
ITEM DESCRIPTION	UNIT	QUANTITY
Hot-Mix Asphalt Surface Removal (Deck)	Sq. Yd.	396
Hot-Mix Asphalt Surface Course, Mix "C", N70	Ton	34
Deck Slab Repair (Partial Depth)	Sq. Yd.	19
Waterproofing Membrane System	Sq. Yd.	396

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 PLOT DATE = 1/29/2020
 USER NAME = steffemk
 DESIGNED -
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 DATE -
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 REVISED -
 REVISED -
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 STAGE CONSTRUCTION, GENERAL NOTES & BILL OF MATERIALS
 S.N. 051-0052
 SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.
 F.A.S RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
 1806 (2,3)RS-3 LAWRENCE 32 21
 CONTRACT NO. 74904
 ILLINOIS FED. AID PROJECT

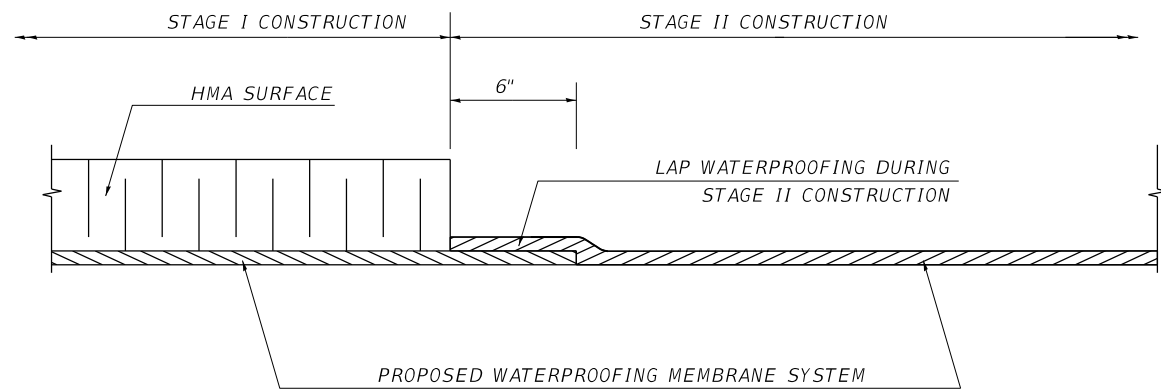


NOTES

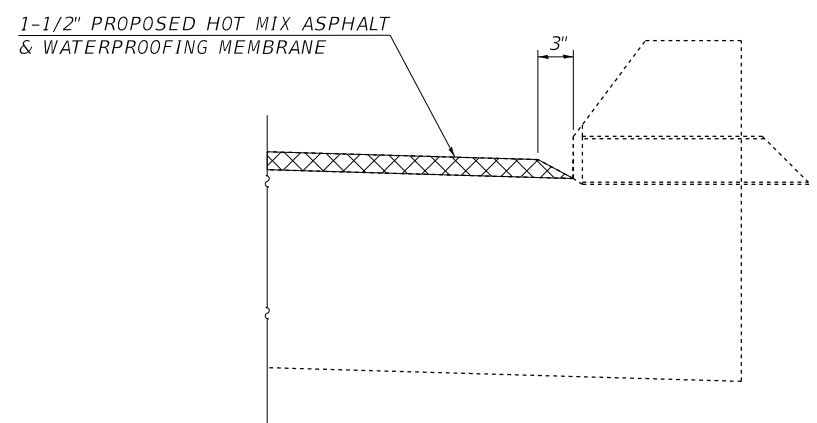
THIS DETAIL HAS BEEN INCLUDED TO ILLUSTRATE THE ASSOCIATED LAYERS AND CURE TIMES NECESSARY FOR THE PLACEMENT OF THE WATERPROOFING MEMBRANE SYSTEM. THIS DETAIL SHALL SUPPLEMENT, NOT SUPERSEDE, SECTION 581 OF THE STANDARD SPECIFICATIONS.



SECTION AT ABUTMENT



WATERPROOFING TREATMENT AT STAGE CONSTRUCTION



SECTION AT CURB DRAIN

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PROJECT: 1806
DRAWING: 1806-3
DATE: 1/29/2020

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	DRAWN -	REVISED -
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PLOT DATE = 1/29/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WATERPROOFING MEMBRANE DETAILS
S.N. 051-0052

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	22
CONTRACT NO. 74904				
ILLINOIS FED. AID PROJECT				

ENTRANCE RESURFACING SCHEDULE						
LOCATION			SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)	TEMPORARY RAMP	INCIDENTAL HOT-MIX ASPHALT SURFACING	AGGREGATE SURFACE COURSE, TYPE B
SIDE	STATION	ENTRANCE TYPE				
			(SQ YD)	(SQ YD)	(TON)	(TON)
RT	241+83	PE				2.4
RT	253+63	PRA	41	16	4.5	
LT	253+63	PRA	47	19	5.2	
LT	256+55	FE				2.5
RT	256+55	PE				2.0
RT	257+62	PE				2.4
RT	259+63	PE				1.5
LT	260+63	FE				2.4
RT	267+02	PE				3.0
RT	267+02	MBT1				2.5
LT	267+09	PE				2.7
LT	269+88	PE				4.5
LT	271+16	PE	16	6	1.7	
RT	271+41	PE				4.5
RT	271+41	MBT1				2.5
LT	273+78	PE				6.3
LT	276+48	PE				1.6
RT	276+79	MBT2				5.0
RT	279+98	PE				2.1
RT	283+24	PE				4.1
RT	283+24	MBT1				2.5
LT	283+35	FE				2.0
RT	291+74	MBT2				5.0
LT	291+89	PE				3.2
RT	294+98	PRA	39	14	4.4	
RT	315+26	PRA				9.0
RT	315+26	MBT1				2.5
LT	315+93	PE				4.3
LT	322+18	PRA				3.3
RT	322+25	FE				2.3
RT	335+38	PRA	44	17	4.9	
LT	335+38	PRA	66	22	7.3	
LT	343+60	PE				1.4
LT	350+04	PE				2.5
RT	351+09	MBT2				5.0
LT	352+44	PE	48	16	5.4	
RT	353+94	PE				3.7
RT	353+94	MBT1				2.5
RT	362+31	PRA	42	16	4.7	
LT	362+31	PRA	44	17	4.9	
RT	376+74	FE				2.3
LT	385+12	FE				3.0
LT	391+27	PE				2.2
LT	393+17	PE				3.8
LT	393+17	MBT1				2.5
RT	398+63	PE				1.8
LT	403+37	FE				1.8
LT	409+87	PE				3.4
LT	413+75	PE				3.0
LT	413+75	MBT1				2.5
LT	421+78	PE				4.9
LT	421+78	MBT1				2.5

ENTRANCE RESURFACING SCHEDULE						
LOCATION			SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL)	TEMPORARY RAMP	INCIDENTAL HOT-MIX ASPHALT SURFACING	AGGREGATE SURFACE COURSE, TYPE B
SIDE	STATION	ENTRANCE TYPE				
			(SQ YD)	(SQ YD)	(TON)	(TON)
LT	428+24	PE				3.8
LT	428+24	MBT1				2.5
RT	428+66	PRA	138	59	15.4	
LT	429+67	PE				2.6
LT	429+67	MBT1				2.5
LT	432+65	FE				1.6
LT	437+25	CE				6.1
RT	438+94	PRA				2.3
RT	446+68	FE				2.3
LT	446+85	CE	26	9	11.4	
RT	447+75	PE	29	13	13.1	
LT	448+37	CE	17	5	1.9	
RT	449+65	PRA	33	13	3.6	
LT	449+84	CE	24	7	2.7	
RT	450+52	CE	41	17	4.6	
RT	451+14	CE	38	16	4.2	
RT	451+78	CE	31	12	3.4	
LT	452+22	CE	23	7	2.6	
LT	454+67	CE	24	8	2.7	
RT	455+94	PRA	99	41	11.1	
LT	456+10	CE	88	34	9.9	
RT	457+10	PE				2.7
LT	457+19	PE				2.5
RT	457+94	PE				1.5
LT	458+44	MBT2				5.0
RT	458+75	PE	52	23	5.8	
RT	459+59	PE				2.5
LT	459+89	PE				3.5
LT	459+89	MBT1				2.5
RT	461+61	PE				2.2
RT	462+51	PRA	41	15	4.6	
LT	462+61	FE				2.2
RT	464+57	PE				2.1
LT	464+57	MBT2				5.0
LT	466+39	FE				1.5
RT	467+00	PE				1.9
LT	467+19	MBT2	25	10	2.8	
RT	468+09	PRA				4.2
LT	473+71	PRA	59	23	6.6	
RT	478+76	PRA	41	16	4.6	
LT	478+76	PRA	42	17	4.7	
LT	480+61	PE	65	32	7.3	
RT	480+83	PE				3.0
RT	481+11	PE				1.7
LT	481+61	PE				1.0
RT	482+26	PE				1.4
RT	482+68	PE				2.4
LT	484+08	PE				1.5
LT	484+90	PE				2.1
RT	485+87	PRA	20	7	9.1	
LT	485+87	PRA	42	16	18.7	

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ENTRANCE SCHEDULE

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	23
CONTRACT NO. 74904				
ILLINOIS FED. AID PROJECT				

ENTRANCE RESURFACING SCHEDULE

LOCATION			SURFACE REMOVAL, VARIABLE DEPTH (SPECIAL) (SQ YD)	TEMPORARY RAMP (SQ YD)	INCIDENTAL HOT-MIX ASPHALT SURFACING (TON)	AGGREGATE SURFACE COURSE, TYPE B (TON)
SIDE	STATION	ENTRANCE TYPE				
LT	486+90	CE				15.4
RT	488+77	CE				15.3
LT	488+86	PE				1.5
LT	489+47	PE				1.7
RT	489+87	CE	45	19	5.0	
LT	490+19	CE	18	8	2.1	
RT	490+47	PE				8.0
LT	491+04	CE	177	87	19.8	
RT	491+88	CE	187	91	20.9	
RT	493+15	PRA	35	14	4.0	
LT	493+15	PRA	84	35	9.4	
RT	503+20	PE	52	22	5.8	
RT	503+20	MBT1				2.5
LT	504+03	CE	331	166	74.2	
RT	505+52	PRA	48	18	5.4	
LT	505+57	PE				2.4
LT	506+04	PE				3.4
LT	506+04	MBT1				2.5
LT	507+01	PE				3.6
RT	507+10	MBT2				5.0
RT	508+07	PE	23	9	2.6	
LT	509+00	PE				3.8
RT	509+46	PE	21	8	2.4	
RT	510+26	PRA	32	12	3.5	
LT	511+12	PE				9.3
LT	511+12	MBT1				2.5
RT	514+80	PE				4.0
RT	514+80	MBT1				2.5
LT	515+02	PE	29	9	3.2	
LT	516+62	PE				1.5
RT	517+05	PRA	52	21	5.8	
RT	517+05	MBT1				2.5
RT	518+32	PE				3.3
RT	518+32	MBT1				2.5
LT	518+90	CE				3.2
LT	520+37	CE				3.5
RT	520+77	PE				3.8
RT	520+77	MBT1				2.5
LT	521+13	PE				1.1
RT	524+36	PE				2.0
RT	526+27	PE				2.9
RT	526+27	MBT1				2.5
RT	528+33	PE	26	10	2.9	
LT	531+31	FE				2.2
LT	531+86	FE				2.0
RT	532+28	PE				2.1
RT	532+87	PE				2.8
RT	532+87	MBT1				2.5
LT	539+88	PE				5.9
LT	539+88	MBT1				2.5
LT	550+79	PRA	57	20	6.3	
LT	559+82	CE				9.4
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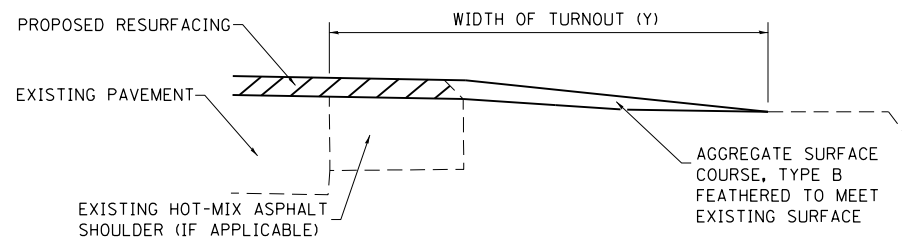
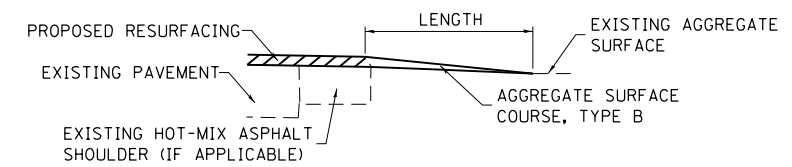
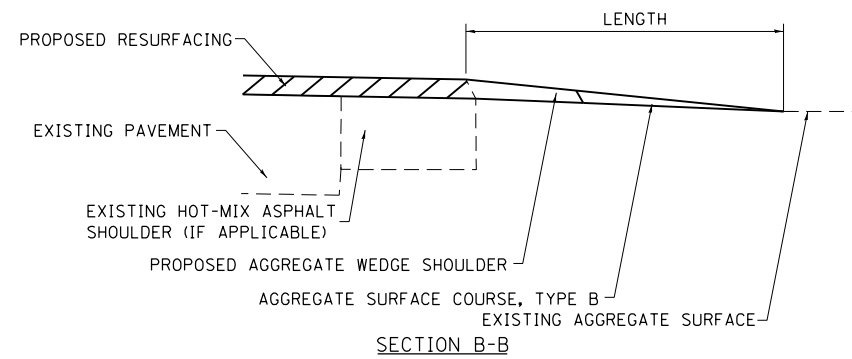
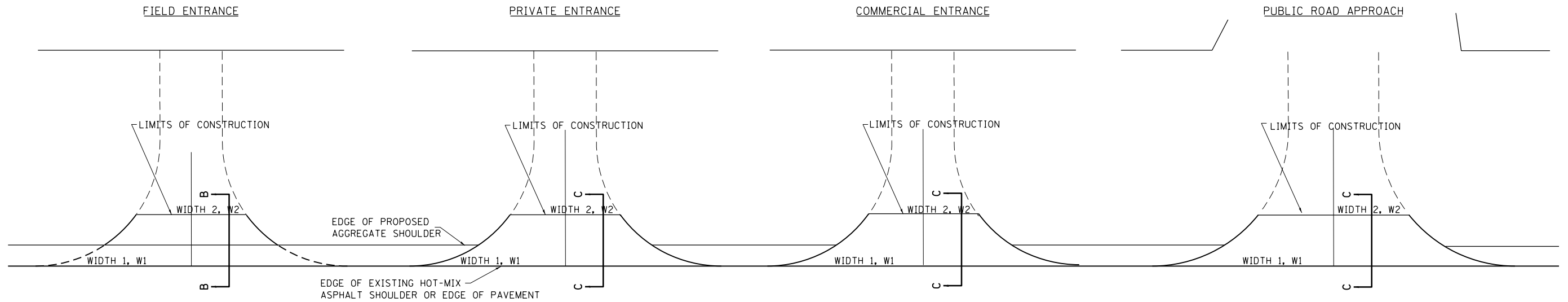
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PLOT DATE = 3/4/2020	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ENTRANCE SCHEDULE

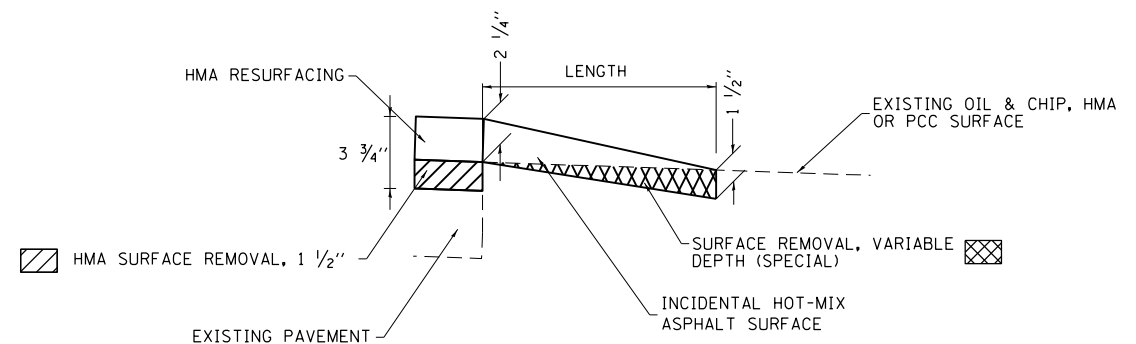
SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	24
CONTRACT NO. 74904				
ILLINOIS FED. AID PROJECT				



TYPICAL SECTION AT MAILBOX TURNOUT

NOTE: SEE STANDARD 406201 FOR MAILBOX TURNOUT DETAILS



SECTION C-C

NOTES

LENGTH = 10' UNLESS OTHERWISE NOTED ON PLANS

IF THERE IS NOT EXISTING HOT-MIX ASPHALT SHOULDER THEN THE ENTRANCE TAPER STARTS AT THE EDGE OF EXISTING PAVEMENT.

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DATE: 1/30/2020

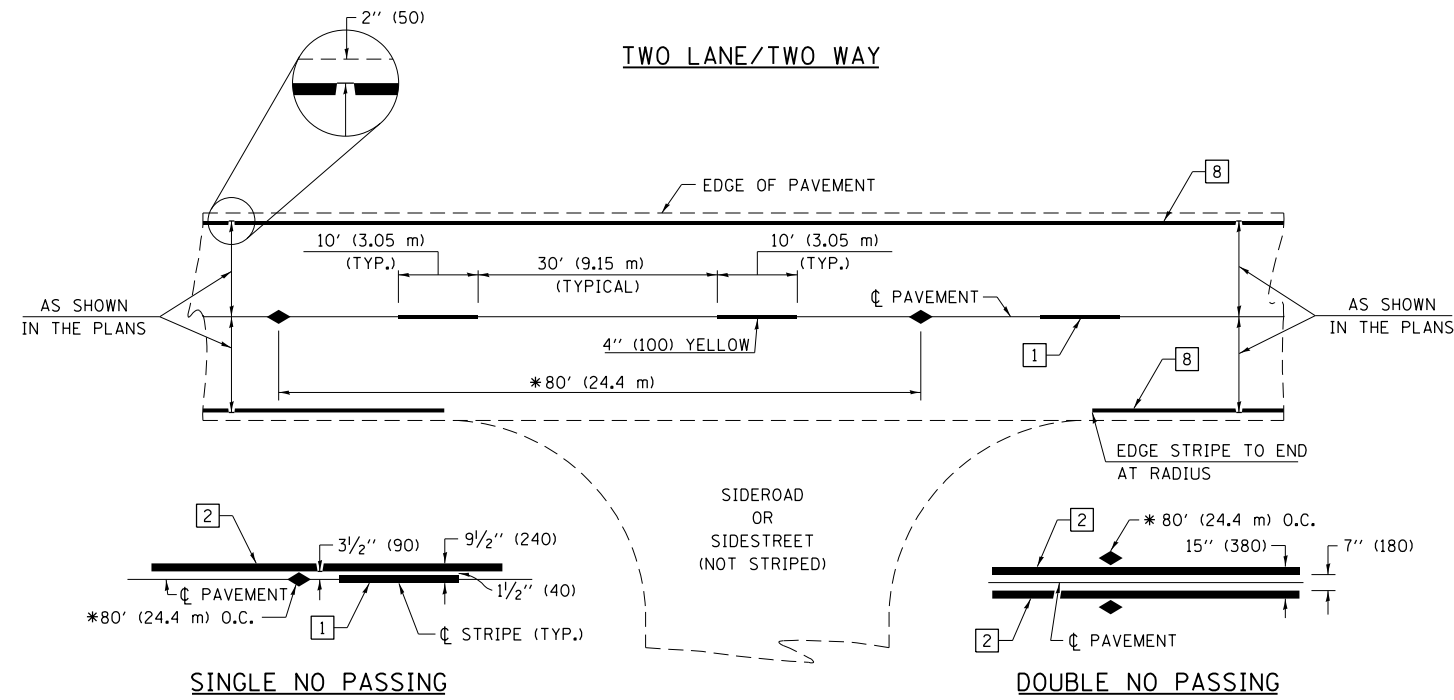
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RURAL ENTRANCE AND MAILBOX TURNOUT DETAILS
WITH SHOULDERS**

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

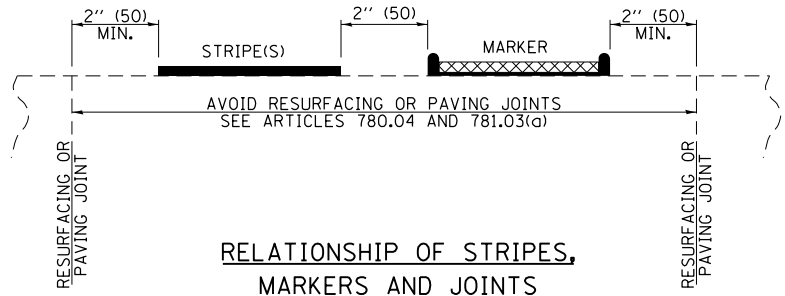
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	25
CONTRACT NO. 74904			ILLINOIS FED. AID PROJECT	



* REDUCE TO 40' (12.2 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEEDS OF 45 mph (70 km/h) OR LESS.

PAVEMENT MARKING LEGEND

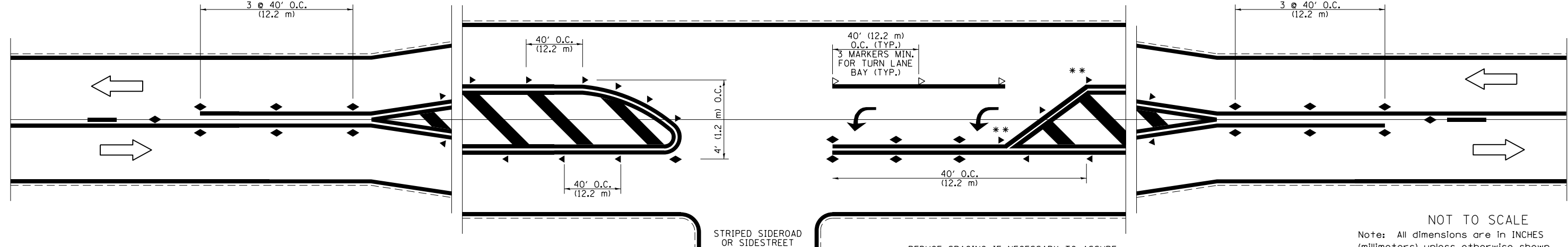
- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE



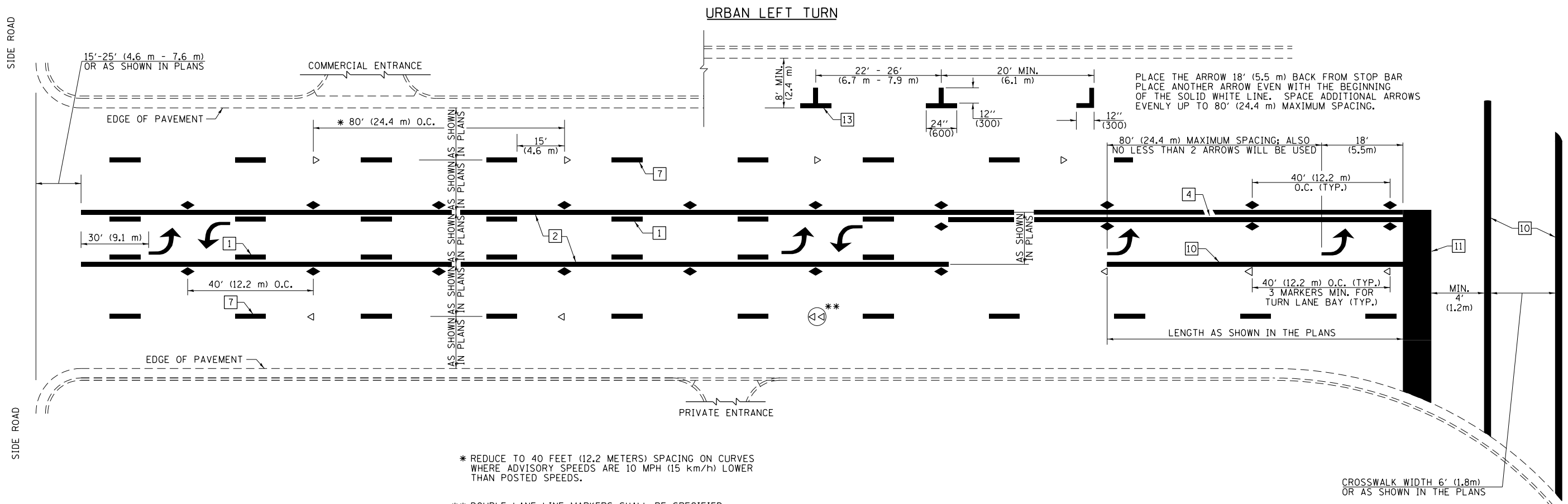
TYPICAL PAVEMENT MARKERS LEGEND

- ◆ TWO-WAY AMBER MARKER
- ▶ ONE-WAY AMBER MARKER
- ▷ ONE-WAY CRYSTAL MARKER

RAISED REFLECTIVE PAVEMENT MARKERS



NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.



* REDUCE TO 40 FEET (12.2 METERS) SPACING ON CURVES WHERE ADVISORY SPEEDS ARE 10 MPH (15 km/h) LOWER THAN POSTED SPEEDS.

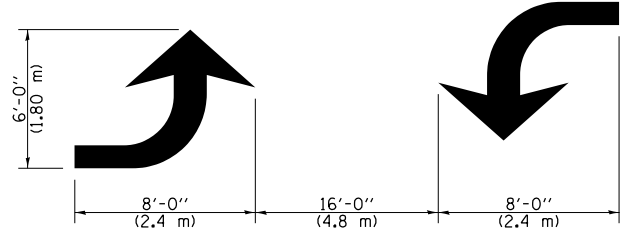
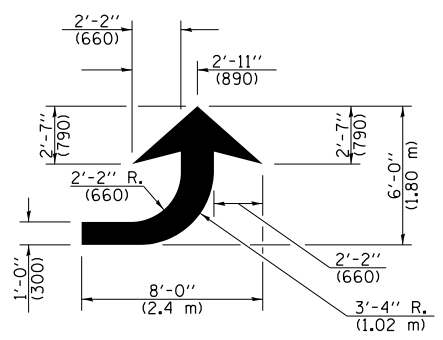
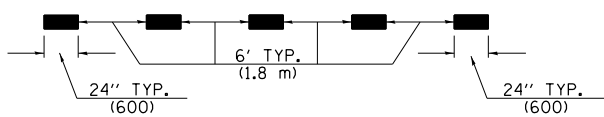
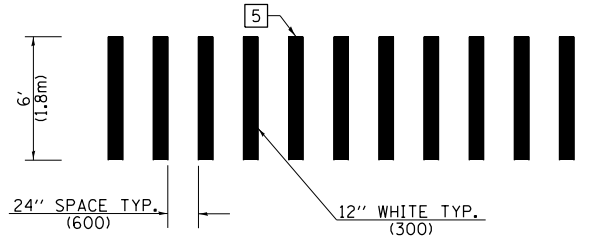
** DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

GENERAL NOTES

1. TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
2. THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT WHERE ONE OR BOTH ENDS WOULD INCLUDE STOP BARS.
3. THE SKIP-DASH PAVEMENT MARKINGS [1] OR [7] SHOULD BE CENTERED BETWEEN BOTH ENDS OF EACH CITY BLOCK AND SHALL BE PLACED SO THEY LINE UP ACROSS FROM EACH OTHER.
4. USE LARGE ARROW SIZE FOR BOTH RURAL AND URBAN LOCATIONS. (SEE LAST PAGE OF SECTION 780x FOR SYMBOLS TABLE)
5. LANE LINE EXTENSIONS SHALL BE THE SAME COLOR AND WIDTH AS THE LANE LINE BEING EXTENDED.



LANE LINE EXTENSIONS

LEFT ARROW

REVERSE FOR RIGHT ARROW
AREA = 15.6 SQ. FT. (1.47 m²)
(WHITE)

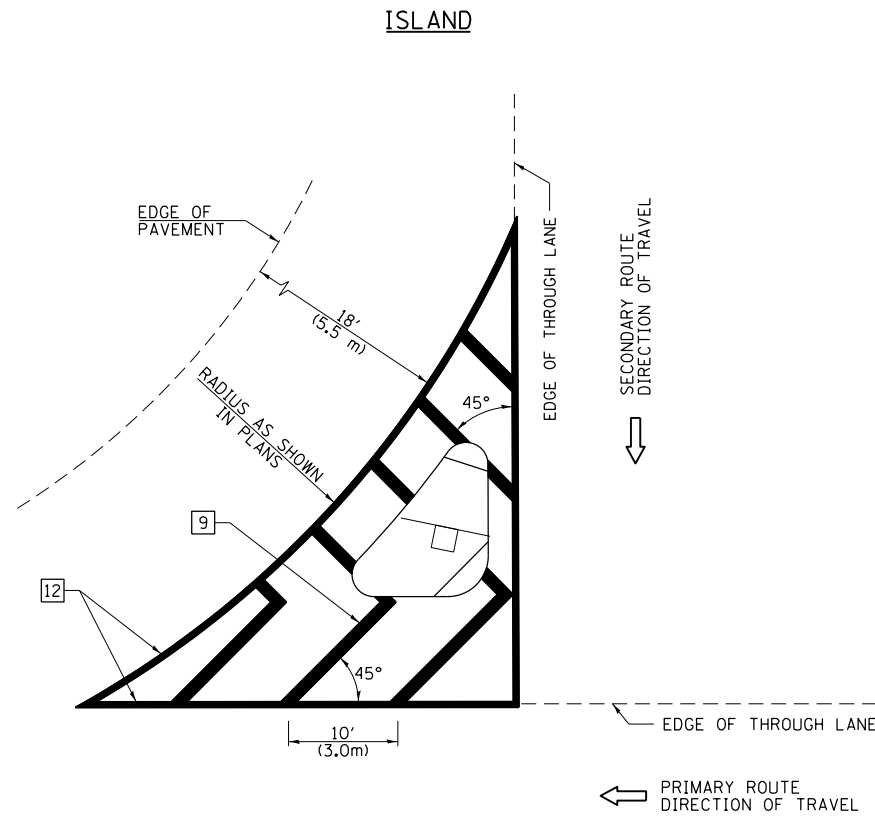
TYPICAL DOUBLE TURN ARROWS (WHITE)

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 78000001

FILE NAME =	USER NAME = steffennk	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL & URBAN APPLICATIONS)	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PIWOT\Documents\IDOT Offices\District 7\Projects\74904\DRAWN\CADsheets\0774904-shd-details.d	DESIGNED -	REVISED -	1806			(2,3)RS-3	LAWRENCE	32	27	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 74904							
PLOT DATE = 1/29/2020	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							
SCALE:		SHEET NO. 2 OF 4 SHEETS		STA.	TO STA.					

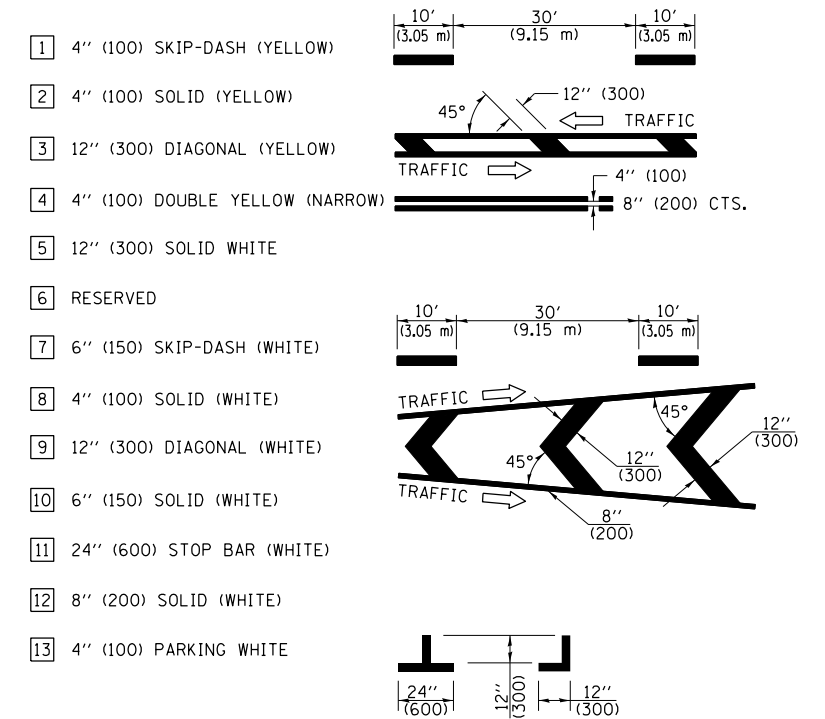


GENERAL NOTES

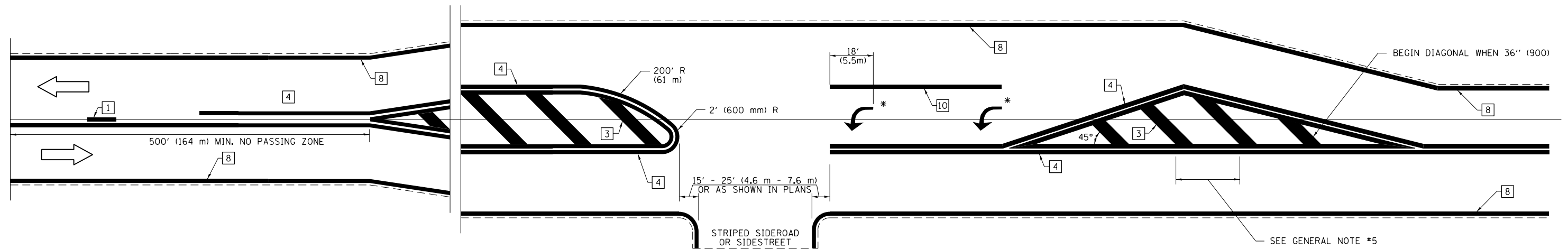
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING ANY RAISED REFLECTIVE PAVEMENT MARKERS.
5. THE FOLLOWING CRITERIA SHALL BE USED FOR SELECTING THE DIAGONAL PAVEMENT MARKING SPACING:

< 30 MPH (< 50 km/h)	15' (4.5 m)
30-45 MPH (50-75 km/h)	20' (6.0 m)
>45 MPH (>75 km/h)	30' (9.0 m)

PAVEMENT MARKING LEGEND



RURAL LEFT TURN STRIPING



* PLACE AN ARROW 18' (5.5 m) BACK FROM STOP BAR. PLACE ANOTHER ARROW EVEN WITH THE BEGINNING OF THE SOLID WHITE LINE. SPACE ADDITIONAL ARROWS EVENLY UP TO 80' (24.4 m) MAXIMUM SPACING. USE MINIMUM OF 2 ARROWS.

NOT TO SCALE
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 7\Projects\74904\DRAWN\CADsheets\0774904-shd-details.dwg		REVISIONS	REVISIONS
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 1/29/2020	DATE -	REVISED -

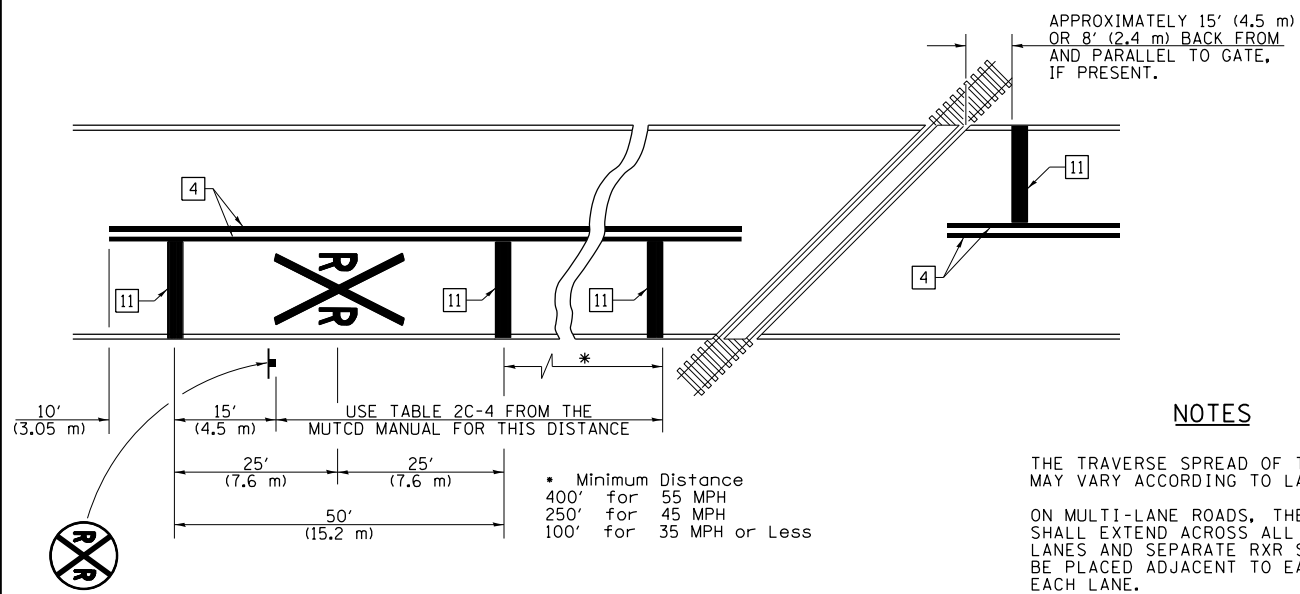
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)**

SCALE: SHEET NO. 3 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	28
CONTRACT NO. 74904				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



NOTES

THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.

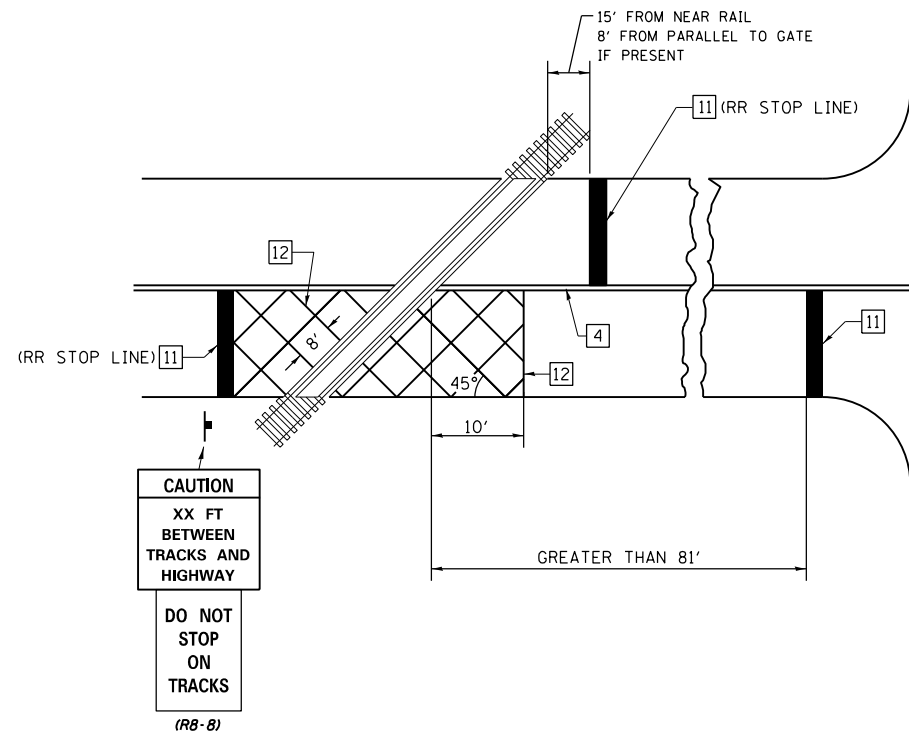
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

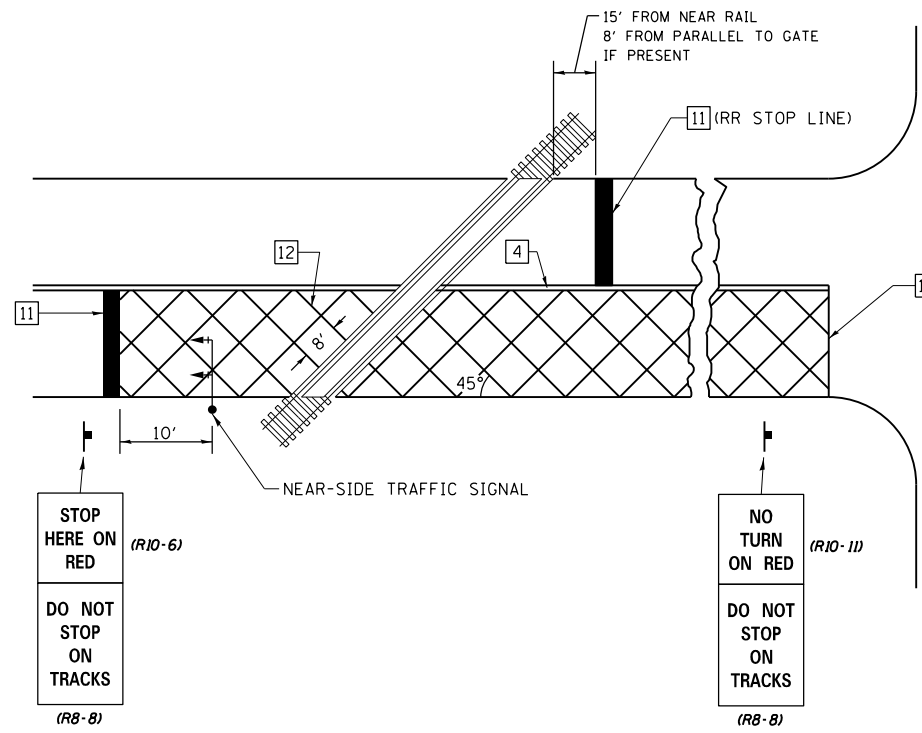
PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
- 2 4" (100) SOLID (YELLOW)
- 3 12" (300) DIAGONAL (YELLOW)
- 4 4" (100) DOUBLE YELLOW (NARROW)
- 5 12" (300) SOLID WHITE
- 6 RESERVED
- 7 6" (150) SKIP-DASH (WHITE)
- 8 4" (100) SOLID (WHITE)
- 9 12" (300) DIAGONAL (WHITE)
- 10 6" (150) SOLID (WHITE)
- 11 24" (600) STOP BAR (WHITE)
- 12 8" (200) SOLID (WHITE)
- 13 4" (100) PARKING WHITE

RAILROAD CROSSING WITH INTERCONNECT ONLY



RAILROAD CROSSING WITH INTERCONNECT AND PRE-SIGNALS



GENERAL NOTES

1. SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.

SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING

NOT TO SCALE

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

DISTRICT 7 DETAIL NO. 7800001

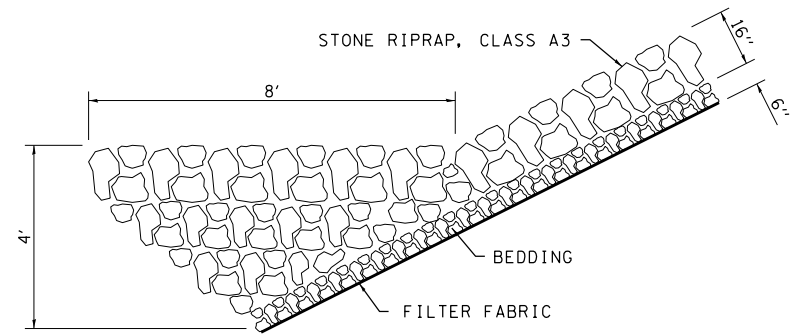
FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
pw:\planroom.dot.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 7\Projects\74904\DRAWN\CADsheets\0774904-shd-details.dwg		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

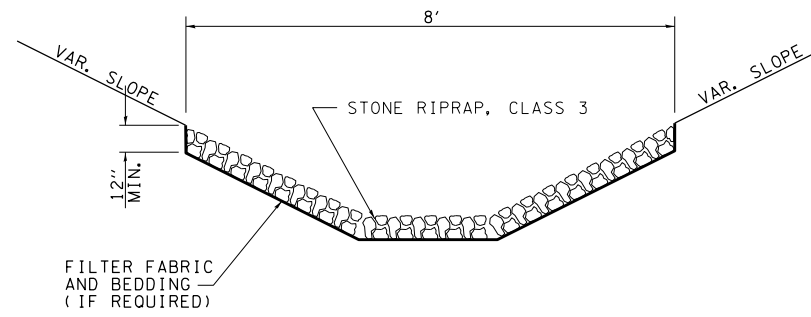
PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS
(RURAL & URBAN APPLICATIONS)

SCALE: SHEET NO. 4 OF 4 SHEETS STA. TO STA.

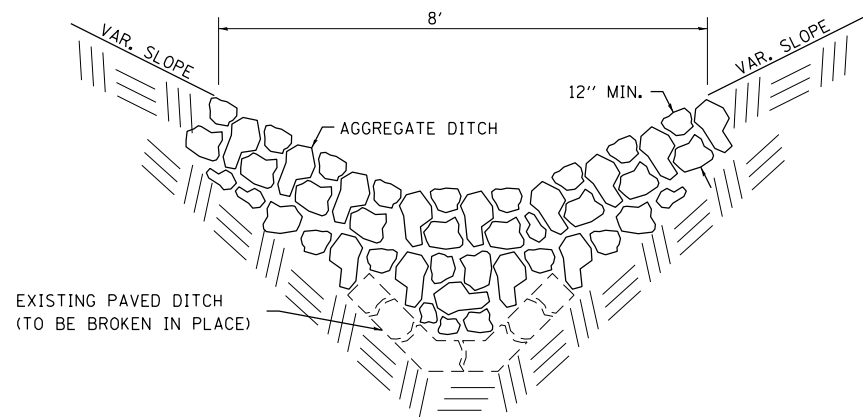
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	29
CONTRACT NO. 74904				
ILLINOIS FED. AID PROJECT				



STONE RIPRAP ANCHOR DETAIL

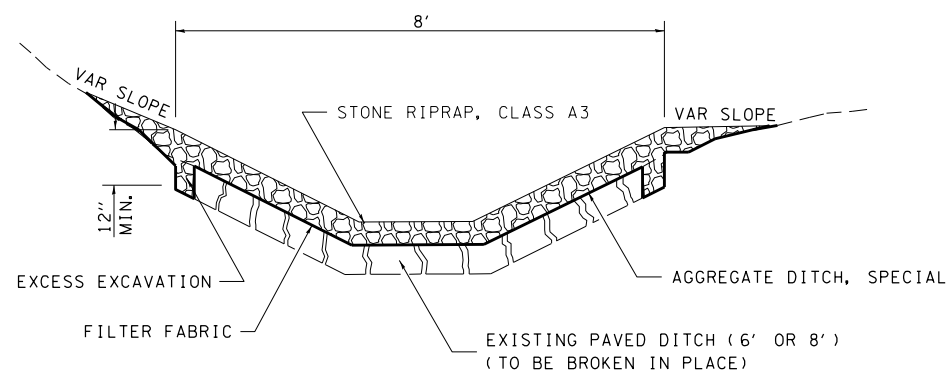


DETAIL OF RIPRAP, CLASS 3



DETAIL OF AGGREGATE DITCH

DITCH RIP-RAP SCHEDULE					
Location	Side	LENGTH FEET	WIDTH FEET	FILTER FABRIC SQ YD	STONE RIPRAP, CLASS A3 SQ YD
509+40	RT	16.0	11.7	20.9	20.9
509+40	LT	12.0	10.0	13.3	13.3



DETAIL OF AGGREGATE DITCH, SPECIAL

FILE NAME =	USER NAME = steffemk	DESIGNED -	REVISED - MKS 04-08
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 7\Projects\74904\DRAWN\CADsheets\0774904-shd-details.dwg		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

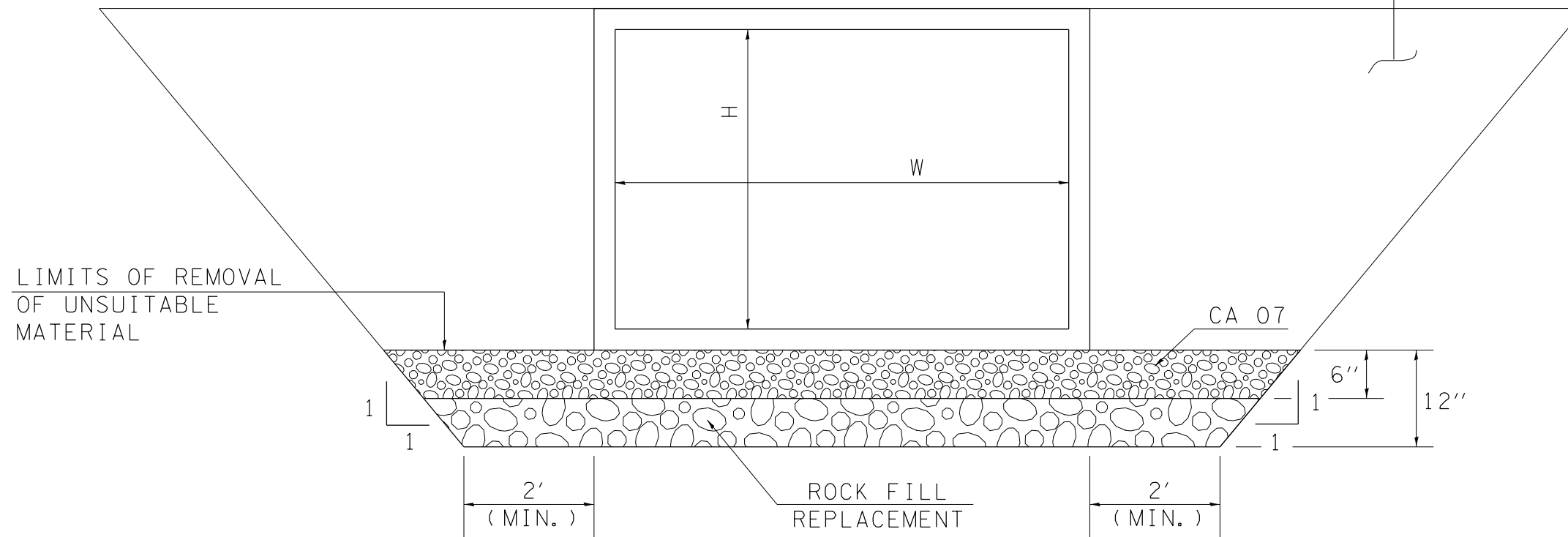
AGGREGATE DITCH AND STONE RIPRAP DETAILS AND SCHEDULES

SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	30
CONTRACT NO. 74904				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

NOTE:
 LOCATION 509+40
 PROPOSED INVERT ELEVATIONS
 UPSTREAM INVERT ELEVATION - 451.2
 DOWNSTREAM INVERT ELEVATION - 451.1

POROUS GRANULAR BACKFILL WITHIN LIMITS
 OF PROPOSED ROADWAY AND PAVED SHOULDERS.
 OUTSIDE LIMITS OF PAVED SHOULDERS THE
 CULVERT SHALL BE BACKFILLED IN ACCORDANCE
 WITH SECTION 502 OF THE STANDARD SPECIFICATIONS.



NOTE:
 THE COST OF THE CA 07 PLACE UNDER THE NEW BOX CULVERT EXTENSION
 AS SHOWN ABOVE SHALL BE INCLUDED IN THE COST
 OF PRECAST CONCRETE BOX CULVERT.

NOTE:
 THE LIMITS AND QUANTITIES SHOWN
 ARE ESTIMATED. THE FINAL DEPTH
 OF UNDERCUT WILL BE DETERMINED BY
 THE ENGINEER AT THE TIME OF
 CONSTRUCTION.

CULVERT UNDERCUT DETAIL

MODEL: Default
 FILE: Model: Box Culvert.dgn
 PROJECT: 74904\CA07\CA07\CA07.dwg
 PLOT DATE: 1/30/2020

USER NAME = steffenmk	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/30/2020	DATE -	REVISED -

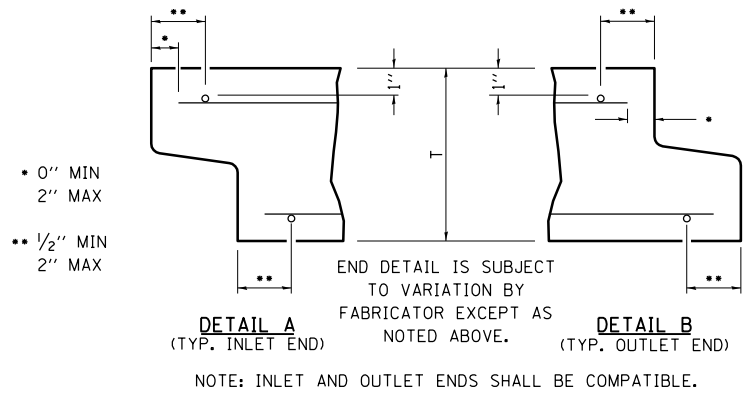
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

BOX CULVERT DETAILS

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1806	(2,3)RS-3	LAWRENCE	32	31
CONTRACT NO. 74904			ILLINOIS FED. AID PROJECT	

DETAIL OF PRECAST CONCRETE BOX CULVERT ASTM C1577



**DESIGN LOADING:
COMBINED EARTH DEAD LOAD
AND AASHTO HL-93 LIVE LOAD**

GENERAL NOTES

SHOP PLANS FOR THE REINFORCEMENT SHALL BE SUBMITTED IN ACCORDANCE WITH THE REQUIREMENTS OF ARTICLE 540.06 OF THE STANDARD SPECIFICATIONS, AND THE CURRENT POLICY MEMORANDUM "QUALITY CONTROL/QUALITY ASSURANCE PROGRAM FOR PRECAST CONCRETE PRODUCTS."

MINIMUM CONCRETE STRENGTH SHALL BE 5000 PSI AFTER 28 DAYS.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED IN ACCORDANCE WITH ARTICLE 540.06 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE TERMS A_{s1} , A_{s2} , A_{s3} , A_{s4} , A_{s5} , A_{s6} , A_{s7} , AND A_{s8} , DENOTE THE REQUIRED STEEL AREAS FOR REINFORCEMENT AS SPECIFIED IN ASTM C1577. REINFORCEMENT SHALL BE WELDED WIRE FABRIC CONFORMING TO **ASTM A 1064** OR REINFORCEMENT BARS, GRADE 60, CONFORMING TO A706.

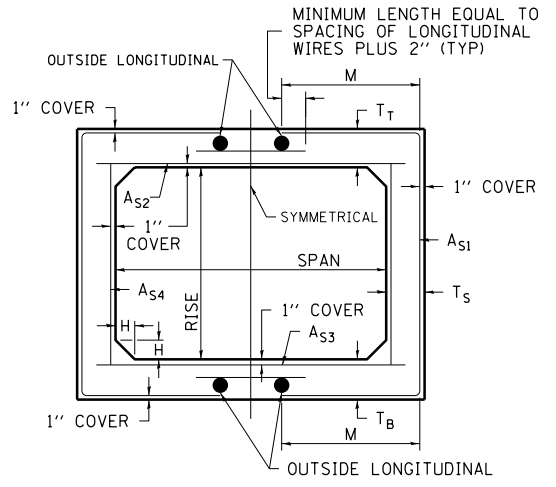
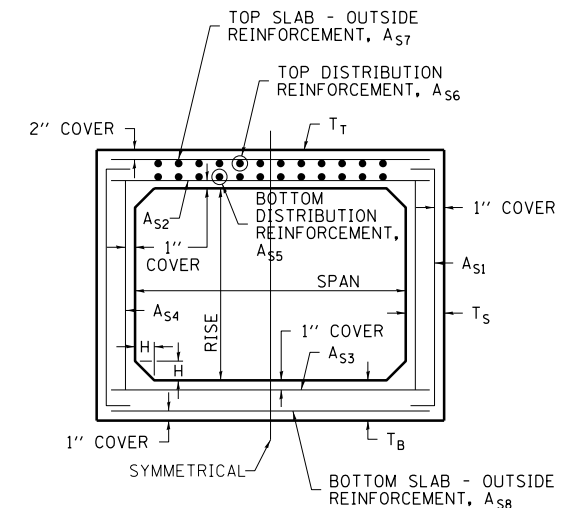
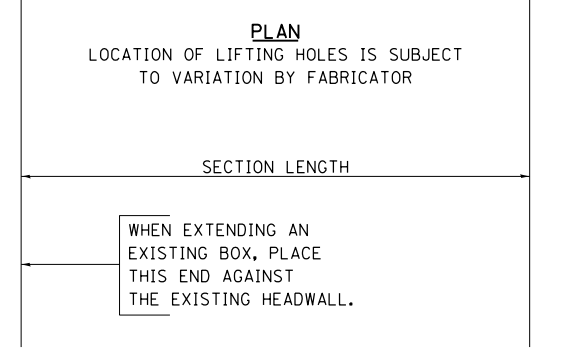
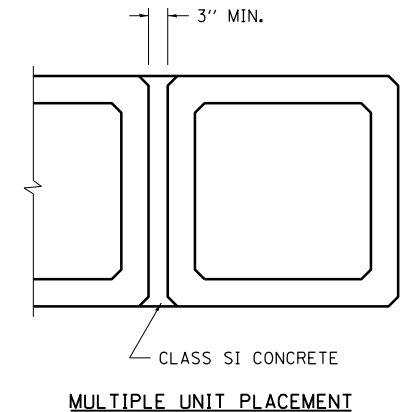
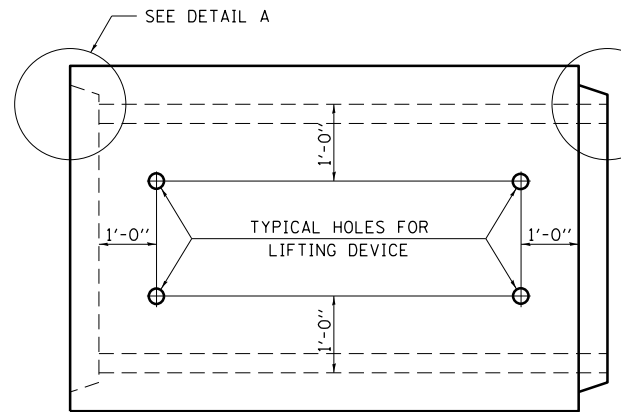
LIFTING HOLES SHALL BE FILLED IN ACCORDANCE WITH 540.06 OR PROJECT SPECIAL PROVISIONS.

DRAINAGE OPENINGS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 503.11 OF THE STANDARD SPECIFICATIONS. LOCATION AND SPACING OF THE OPENINGS SHALL BE SHOWN ON THE SHOP DRAWINGS.

DESIGN FILL HEIGHT (F):

MAXIMUM FILL HEIGHT (f_{max}) AND MINIMUM FILL HEIGHT (f_{min}) ARE MEASURED BETWEEN THE EXTREME EDGES OF SHOULDER.

DESIGN FILL HEIGHTS APPLY TO ENTIRE CULVERT, INCLUDING EXTENSIONS AND END SECTIONS.



Standard Sizes							
Span (ft)	x	Rise (ft)	Design Earth Cover (ft)	Ts (in)	Tt (in)	Tb (in)	Max Earth Cover (ft)
3	x	2	0 < 2	4	7	6	N/A
3	x	2	≥ 2	4	4	4	35
3	x	3	0 < 2	4	7	6	N/A
3	x	3	≥ 2	4	4	4	35
4	x	2	0 < 2	5	7.5	6	N/A
4	x	2	≥ 2	5	5	5	30
4	x	3	0 < 2	5	7.5	6	N/A
4	x	3	≥ 2	5	5	5	30
4	x	4	0 < 2	5	7.5	6	N/A
4	x	4	≥ 2	5	5	5	30
5	x	3	0 < 2	6	8	7	N/A
5	x	3	≥ 2	6	6	6	30
5	x	4	0 < 2	6	8	7	N/A
5	x	4	≥ 2	6	6	6	30
5	x	5	0 < 2	6	8	7	N/A
5	x	5	≥ 2	6	6	6	30
6	x	3	0 < 2	7	8	7	N/A
6	x	3	≥ 2	7	7	7	30
6	x	4	0 < 2	7	8	7	N/A
6	x	4	≥ 2	7	7	7	30
6	x	5	0 < 2	7	8	7	N/A
6	x	5	≥ 2	7	7	7	30
6	x	6	0 < 2	7	8	7	N/A
6	x	6	≥ 2	7	7	7	30
7	x	4	≤ 30	8	8	8	30
7	x	5	≤ 30	8	8	8	30
7	x	6	≤ 30	8	8	8	30
7	x	7	≤ 30	8	8	8	30
8	x	4	≤ 20	8	8	8	20
8	x	5	≤ 20	8	8	8	20
8	x	6	≤ 20	8	8	8	20
8	x	7	≤ 20	8	8	8	20
8	x	8	≤ 20	8	8	8	20
9	x	5	≤ 25	9	9	9	25
9	x	6	≤ 25	9	9	9	25
9	x	7	≤ 20	9	9	9	20
9	x	8	≤ 20	9	9	9	20
9	x	9	≤ 20	9	9	9	20
10	x	5	≤ 25	10	10	10	25
10	x	6	≤ 25	10	10	10	25
10	x	7	≤ 25	10	10	10	25
10	x	8	≤ 20	10	10	10	20
10	x	9	≤ 20	10	10	10	20
10	x	10	≤ 20	10	10	10	20
11	x	4	≤ 25	11	11	11	25
11	x	6	≤ 25	11	11	11	25
11	x	8	≤ 25	11	11	11	25
11	x	10	≤ 20	11	11	11	20
12	x	4	≤ 25	12	12	12	25
12	x	6	≤ 25	12	12	12	25
12	x	8	≤ 25	12	12	12	25
12	x	10	≤ 25	12	12	12	25
12	x	12	≤ 20	12	12	12	20

NOTE: Ts, Tt and Tb are minimums, per ASTM C1577.
 * "T" MAY BE LARGER THAN SHOWN ON TABLE, PER ASTM C1577 SPECIFICATIONS.