

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	1
		ILLINOIS	CONTRACT NO. 74760	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 3400 (2019)

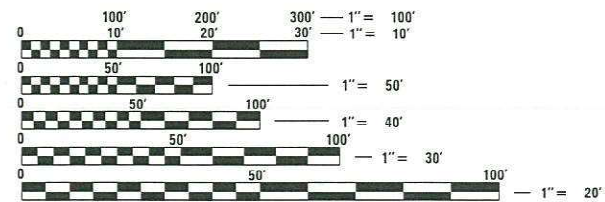
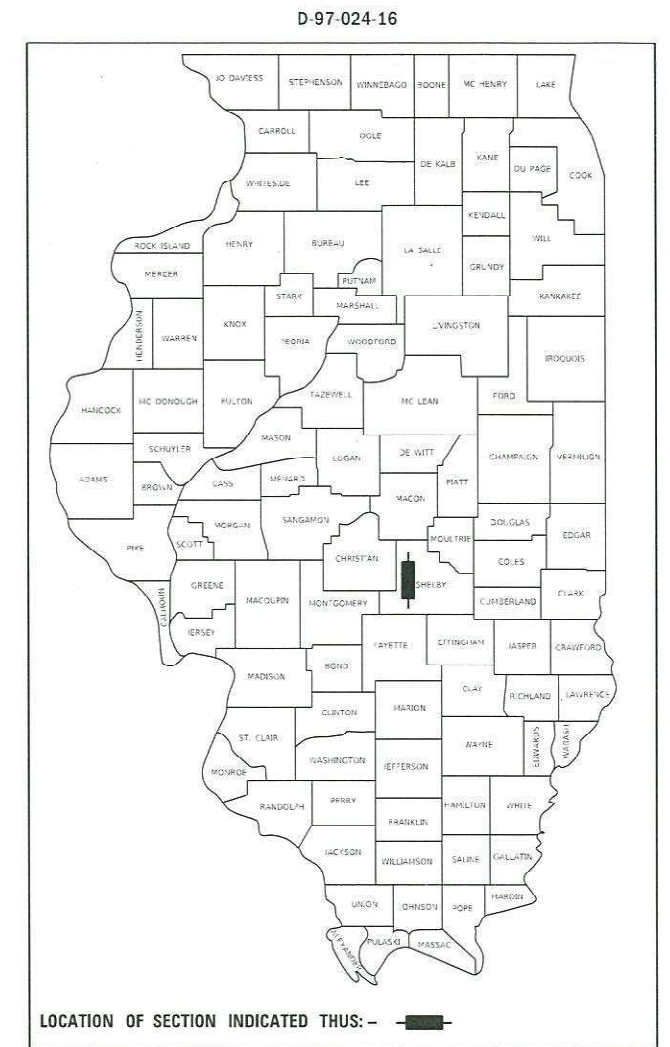
OMISSIONS

STR. NO. 087-0030  
STA 325+10 TO STA 327+39  
STR. NO. 087-0031  
STA 408+56 TO STA 408+93

PROPOSED  
HIGHWAY PLANS

FAP ROUTE 770 (IL 128)  
SECTION (114,115)RS-2  
PROJECT STP-D16H(826)  
PAVING, CULVERT REPLACEMENT  
SHELBY COUNTY

C-97-053-16

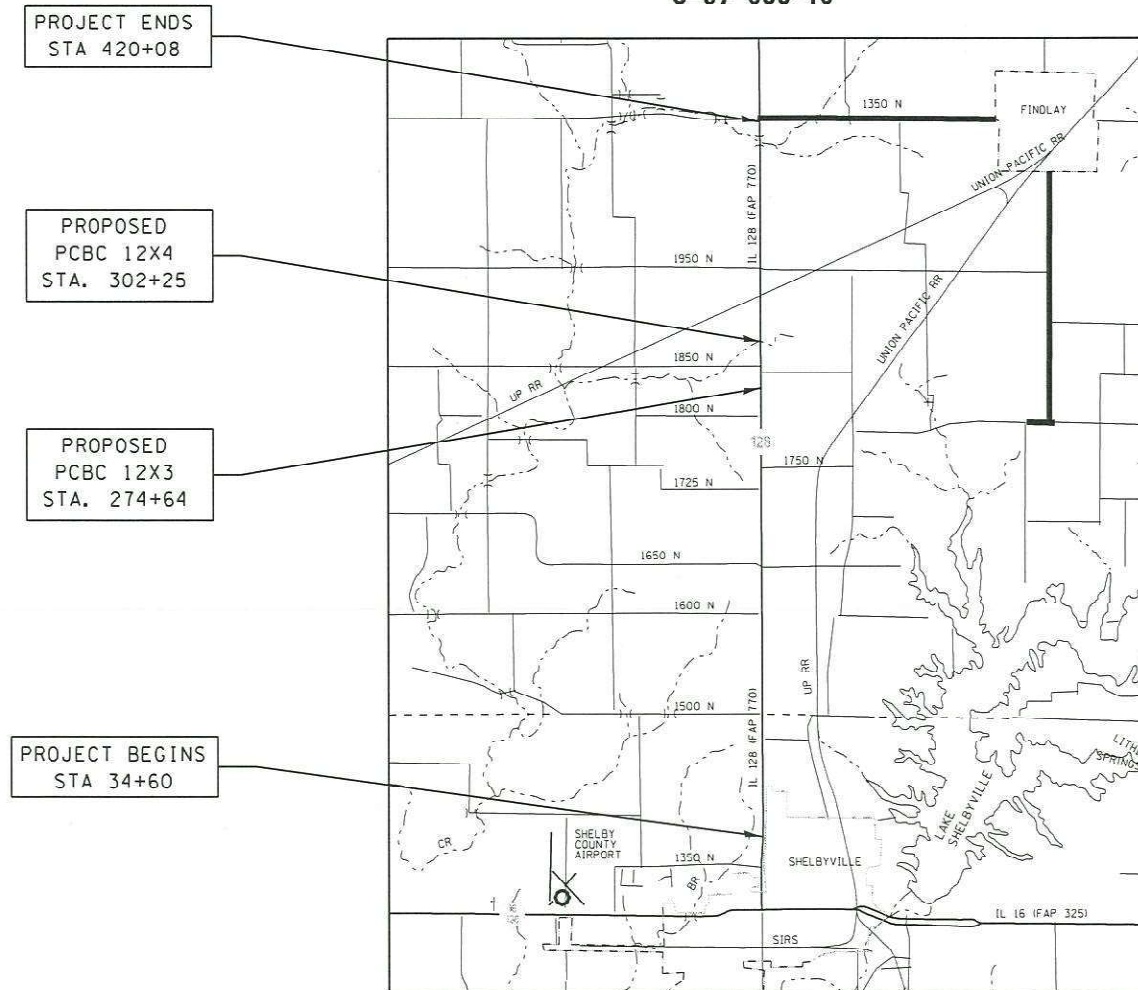


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER - DEBRA BARRETT  
PROJECT MANAGER - KYLE PRICE

CONTRACT NO. 74760



LENGTH = 38,548 FT. = 7.30 MILE

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED February 4 20 21  
Jeffrey P. Meyer  
REGIONAL ENGINEER

March 19, 2021  
Scott A. Etk  
ENGINEER OF DESIGN AND ENVIRONMENT

March 19, 2021  
James J. Gu  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

# INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
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30-31	DETAILS
32-35	DISTRICT STANDARD 78000001

# GENERAL NOTES

THIS PROJECT IS LOCATED ON IL 128 IN SHELBY COUNTY BEGINNING APPROXIMATELY 0.2 MILES NORTH OF 6TH STREET IN SHELBYVILLE AND EXTENDING NORTH FOR APPROXIMATELY 7.30 MILES TO BRUCE FINDLAY ROAD. THE WORK INCLUDED IN SECTION (114,115)RS-2 CONSISTS OF PAVEMENT PATCHING, MILLING, HOT-MIX ASPHALT RESURFACING, PAVEMENT MARKING, PRECAST BOX CULVERT REPLACEMENT, INLET REPLACEMENT, AND ANY OTHER WORK NECESSARY TO COMPLETE THE SECTION. THE WORK ON THE PRECAST BOX CULVERTS WILL BE COMPLETED UTILIZING A ROAD CLOSURE WITH A MARKED ROUTE DETOUR.

WHEN APPLYING SHORT-TERM PAVEMENT MARKINGS, TEMPORARY TAPE SHALL BE USED ON THE SURFACE COURSE AND PAINT SHALL BE USED ON MILLED SURFACES.

THE HMA SHOULDERS SHALL BE RESURFACED SIMULTANEOUSLY AS THE MAINLINE UTILIZING THE SAME BINDER COURSE AND SURFACE COURSE MATERIALS AS THE MAINLINE RESURFACING TO ELIMINATE A JOINT BETWEEN SHOULDERS AND LANES.

THE QUANTITIES FOR PATCHING ITEMS ARE ESTIMATES. THE ACTUAL LOCATIONS AND QUANTITIES WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.

MILLED PAVEMENT SHALL BE RESURFACED WITHIN 5 CALENDAR DAYS.

LONGITUDINAL JOINT SEALANT WILL BE UTILIZED AT THE JOINT LINE OF ADJACENT LANES BETWEEN THE BINDER AND SURFACE LAYERS.

AGGREGATE WEDGE SHOULDERS, TYPE B SHALL BE CRUSHED STONE, CRUSHED CONCRETE, OR RAP.

TYPE E INLETS TO BE REMOVED AND REPLACED WILL INCLUDE THE PCC CURB. 8 FOOT OF 12" RCP HAS BEEN ALOTTED FOR THE CONNECTION TO THE EXISTING DRAIN PIPE FOR EACH NEW INLET AND SHALL BE PAID FOR AS PIPE CULVERTS, CLASS A TYPE 3 12". ANY GUARDRAIL REMOVAL AND RE-ERECTION NECESSARY TO COMPLETE THE INLET AND PIPE WORK SHALL BE INCLUDED IN THE PRICE OF THE INLET.

PIPE CULVERT REMOVAL AT 1650 N (RT) WILL ONLY REPLACE 60 FEET (SOUTH END) OF THE 150 FEET REMOVED. THE PIPE REMOVED ON THE NORTH END WILL NOT BE REPLACED BUT RATHER LEFT AS AN OPEN DITCH. SHAPING THE DITCH WILL BE INCLUDED IN THE REMOVAL OF THE EXISTING PIPE. ACCEPTANCE OF THE OPEN DITCH WILL BE DETERMINED BY THE ENGINEER.

# HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001 - 08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001 - 02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF INCH AND FOOT
202001 - 01	EARTH MEDIAN DITCH CHECK
280001 - 07	TEMPORARY EROSION CONTROL SYSTEMS
442201 - 03	CLASS C AND D PATCHES
482011 - 03	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
515001 - 04	NAME PLATE FOR BRIDGES
610001 - 09	SHOULDER INLET WITH CURB (TYPE E)
642006 01	SHOULDER RUMBLE STRIPS, 8 IN.
667101 - 02	PERMANENT SURVEY MARKERS
701001 - 02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006 - 05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011 - 04	OFF-ROAD 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
701501 - 06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901 - 08	TRAFFIC CONTROL DEVICES
780001 - 05	TYPICAL PAVEMENT MARKINGS
781001 - 04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
BLR21 - 9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

APPLICATION	AC/PG	DESIGN AIR VOIDS	MIXTURE COMPOSITION	FRICTION AGGREGATE	QUALITY MANAGEMENT
HMA SURFACE COURSE, MIX "D", N90, (2")	PG 64-22	4.0% @ N=90	IL - 9.5	MIXTURE D	PPF
HMA BINDER COURSE, IL-9.5FG, N90 (1 3/4")	PG 64-22	4.0% @ N=90	IL - 9.5FG	N/A	PPF
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=90	IL - 19.0	N/A	QC/QA

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

HOT MIX ASPHALT	112 LBS/SQ YD/IN
BITUMINOUS MATERIALS (TACK COAT)	
MILLED SURFACE	0.05 LBS/SQ FT
BETWEEN HMA LIFTS	0.025 LBS/SQ FT
GRANULAR MATERIAL	2.05 TONS/CU YD

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PLOT DATE = 2/4/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, STANDARDS, INDEX OF SHEETS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	2
CONTRACT NO. 74760			ILLINOIS FED. AID PROJECT	

80% / 20% = 80% FEDERAL / 20% STATE SPLIT

80% / 20% = 80% FEDERAL / 20% STATE SPLIT

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005 80% / 20%	0004 80% / 20%
20700220	POROUS GRANULAR EMBANKMENT	CU YD	159		159
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	233	233	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	92689	92689	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	1347	1347	
40600990	TEMPORARY RAMP	SQ YD	107	107	
40602975	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N90	TON	13458	13458	
40604064	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N90	TON	15380	15380	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	21	21	
44000152	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	SQ YD	135970	135970	
44201773	CLASS D PATCHES, TYPE I, 11 INCH	SQ YD	56	56	
44201777	CLASS D PATCHES, TYPE II, 11 INCH	SQ YD	1522	1522	
44201781	CLASS D PATCHES, TYPE III, 11 INCH	SQ YD	447	447	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005 80% / 20%	0004 80% / 20%
44201783	CLASS D PATCHES, TYPE IV, 11 INCH	SQ YD	1098	901	197
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	3222	3222	
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	12	12	
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1		1
50105220	PIPE CULVERT REMOVAL	FOOT	210	210	
51500100	NAME PLATES	EACH	2		2
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2		2
54001002	BOX CULVERT END SECTIONS, CULVERT NO. 2	EACH	2		2
54011203	PRECAST CONCRETE BOX CULVERTS 12' X 3'	FOOT	48		48
54011204	PRECAST CONCRETE BOX CULVERTS 12' X 4'	FOOT	48		48
54262715	METAL FLARED END SECTIONS 15"	EACH	2	2	
54262718	METAL FLARED END SECTIONS 18"	EACH	2	2	

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PLOT DATE = 2/4/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74760	

80% / 20% = 80% FEDERAL / 20% STATE SPLIT

80% / 20% = 80% FEDERAL / 20% STATE SPLIT

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005 80% / 20%	0004 80% / 20%
542A1897	PIPE CULVERTS, CLASS A, TYPE 3 12"	FOOT	96	96	
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	60	60	
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	60	60	
59100100	GEOCOMPOSITE WALL DRAIN	SO YD	62		62
61000115	TYPE E INLET BOX, STANDARD 610001	EACH	12	12	
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	75803	75803	
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	17	17	
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	100	100	
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1	
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1	
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	4	4	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005 80% / 20%	0004 80% / 20%
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6	
67000600	ENGINEER'S FIELD LABORATORY	CAL MO	6	6	
67100100	MOBILIZATION	L SUM	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	14	14
70300100	SHORT TERM PAVEMENT MARKING	FOOT	11546	11546	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	2566	2566	
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	91816	91816	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	478	478	

\* SPECIALTY ITEM

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

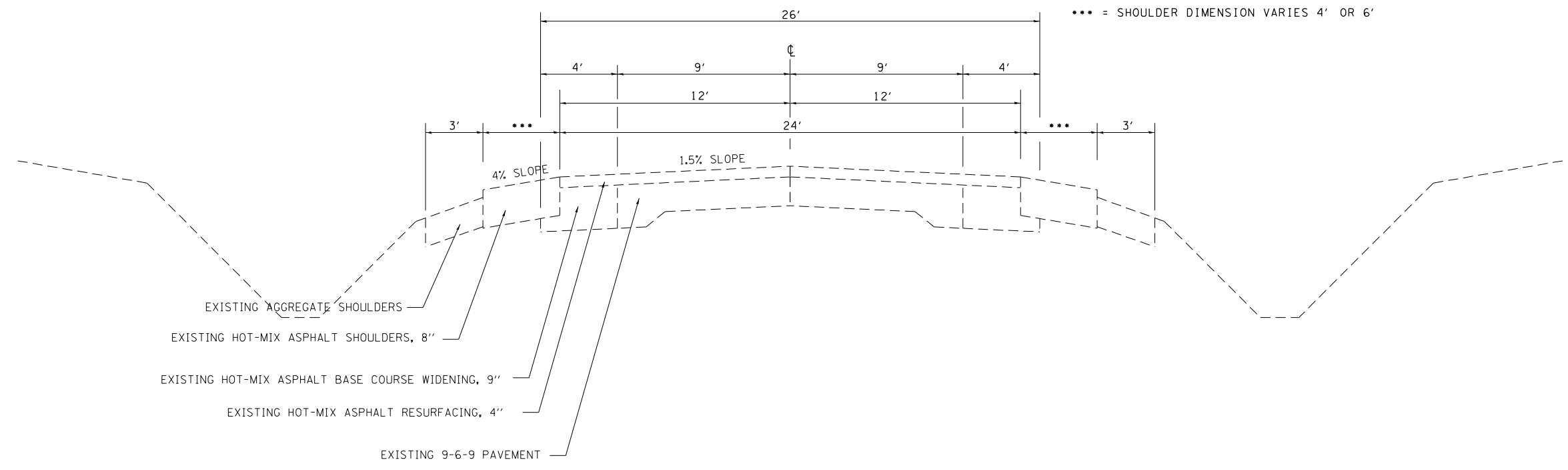
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74760	





# EXISTING SECTION



EXISTING AGGREGATE SHOULDERS  
 EXISTING HOT-MIX ASPHALT SHOULDERS, 8"  
 EXISTING HOT-MIX ASPHALT BASE COURSE WIDENING, 9"  
 EXISTING HOT-MIX ASPHALT RESURFACING, 4"  
 EXISTING 9-6-9 PAVEMENT

STA 34+60.00 TO STA 325+10.91  
 STA 325+10.91 TO STA 327+39.17 BRIDGE OMISSION  
 STA 327+39.17 TO STA 408+56.33  
 STA 408+56.33 TO STA 408+93.84 BRIDGE OMISSION  
 STA 408+93.84 TO STA 420+08.00

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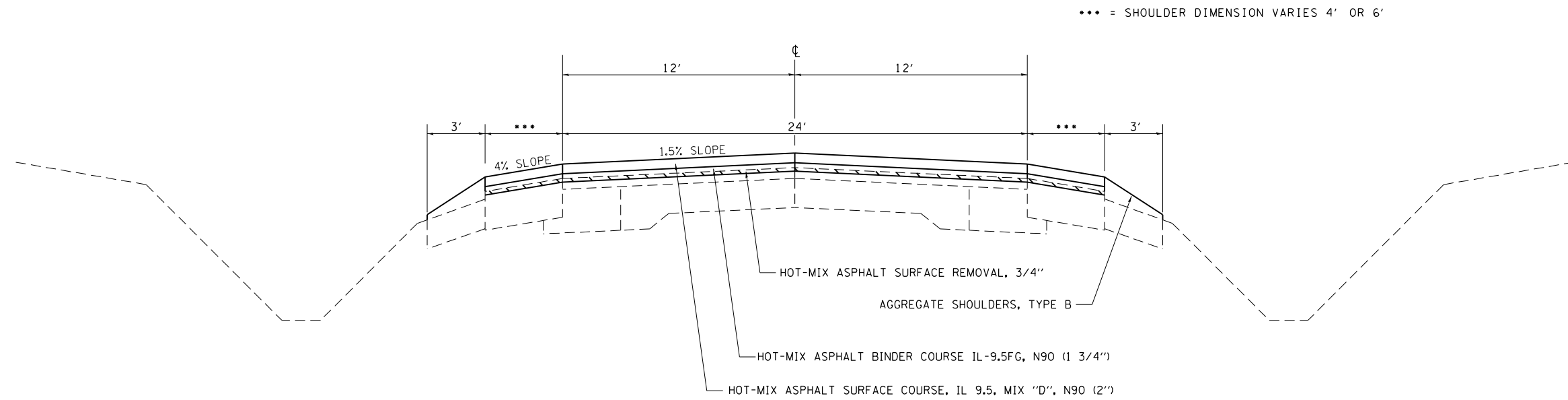
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PLOT DATE = 2/4/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74760	

# PROPOSED SECTION



STA 34+60.00 TO STA 325+10.91

STA 325+10.91 TO STA 327+39.17 BRIDGE OMISSION

STA 327+39.17 TO STA 408+56.33

STA 408+56.33 TO STA 408+93.84 BRIDGE OMISSION

STA 408+93.84 TO STA 420+08.00

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 DATE: 2/4/2021

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	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/4/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	7
CONTRACT NO. 74760			ILLINOIS FED. AID PROJECT	

# PAVING SCHEDULE, HMA REMOVAL, TEMP RAMPS

STATION	TO	STATION	LENGTH	WIDTH	AREA	AREA	BINDER COURSE	SURFACE COURSE	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N90 (1 3/4")	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D" N90 (2")	LONGITUDINAL JOINT SEALANT	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	TEMPORARY RAMP
							THICKNESS	THICKNESS	40600290	40602975	40604164	Z0033700	44000152	40600982	40600990
			FEET	FEET	SQ FT	SQ YD	INCH	INCH	POUND	TON	TON	FEET	SQ YD	SQ YD	SQ YD
34+60.00		35+20.00	60.0	34.0	2040.0	226.7	1.75	2.0	153.0	22.2	25.4	60.0		226.7	17.8
35+20.00		48+43.00	1323.0	34.0	44982.0	4998.0	1.75	2.0	3373.7	489.8	559.8	1323.0	4998.0		
48+43.00		313+24.00	26481.0	32.0	847392.0	94154.7	1.75	2.0	63554.4	9227.2	10545.3	26481.0	94154.7		
313+24.00		314+56.00	132.0	34.0	4488.0	498.7	1.75	2.0	336.6	48.9	55.9	132.0	498.7		
314+56.00		324+50.91	994.9	36.0	35816.8	3979.6	1.75	2.0	2686.3	390.0	445.7	994.9	3979.6		
324+50.91		325+10.91	60.0	36.0	2160.0	240.0	1.75	2.0	162.0	23.5	26.9	60.0		240.0	17.8
<b>BRIDGE OMMISION 325+10.91 TO 327+39.17</b>															
327+39.17		327+99.17	60.0	36.0	2160.0	240.0	1.75	2.0	162.0	23.5	26.9	60.0		240.0	17.8
327+99.17		336+31.00	831.8	36.0	29945.9	3327.3	1.75	2.0	2245.9	326.1	372.7	831.8	3327.3		
336+31.00		407+96.33	7165.3	32.0	229290.6	25476.7	1.75	2.0	17196.8	2496.7	2853.4	7165.3	25476.7		
407+96.33		408+56.33	60.0	32.0	1920.0	213.3	1.75	2.0	144.0	20.9	23.9	60.0		213.3	17.8
<b>BRIDGE OMMISION 408+56.33 TO 408+93.84</b>															
408+93.84		409+53.84	60.0	32.0	1920.0	213.3	1.75	2.0	144.0	20.9	23.9	60.0		213.3	17.8
409+53.84		419+48.00	994.2	32.0	31813.1	3534.8	1.75	2.0	2386.0	346.4	395.9	994.2	3534.8		
419+48.00		420+08.00	60.0	32.0	1920.0	213.3	1.75	2.0	144.0	20.9	23.9	60.0		213.3	17.8
							<b>TOTALS</b>		<b>92689</b>	<b>13458</b>	<b>15380</b>	<b>38283</b>	<b>135970</b>	<b>1347</b>	<b>107</b>

## AGG WEDGE, RPM, RUMBLE STRIPS

## PAVEMENT MARKING

STA.	→	STA.	FT	APPLICATIONS	REMOVALS	PAINT PAVEMENT MARKING - LINE 4"	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	NOTES
						78001110	70300100	70300150	
			QTY	QTY	QTY				
			FT	FT	SQ FT				
35+20.00		40+43.00	523.0	3	2		156.9	34.9	SKIPS YELLOW
40+43.00		170+35.00	12992.0	3	2		3897.6	866.1	SKIPS YELLOW
170+35.00		177+29.00	694.0	3	2		208.2	46.3	SKIPS YELLOW
177+29.00		180+78.00	349.0	3	2		105	23	SKIPS YELLOW
180+78.00		188+03.00	725.0	3	2		218	48	SKIPS YELLOW
188+03.00		305+50.00	11747.0	3	2		3524	783	SKIPS YELLOW
305+50.00		321+97.00	1647.0	3	2		494	110	SKIPS YELLOW
321+97.00		329+63.00	766.0	3	2		230	51	SKIPS YELLOW
329+63.00		341+59.00	1196.0	3	2		359	80	SKIPS YELLOW
341+59.00		420+08.00	7849.0	3	2		2355	523	SKIPS YELLOW
35+20.00		40+43.00	523.0	1	0	1700			EOP LT/RT, NPZ (RT), SKIPS
40+43.00		170+35.00	12992.0	1	0	29232			EOP LT/RT, SKIPS
170+35.00		177+29.00	694.0	1	0	2256			EOP LT/RT, NPZ (RT), SKIPS
177+29.00		180+78.00	349.0	1	0	785			EOP LT/RT, SKIPS
180+78.00		188+03.00	725.0	1	0	2356			EOP LT/RT, NPZ (LT), SKIPS
188+03.00		305+50.00	11747.0	1	0	26431			EOP LT/RT, SKIPS
305+50.00		321+97.00	1647.0	1	0	5353			EOP LT/RT, NPZ (RT), SKIPS
321+97.00		329+63.00	766.0	1	0	3064			EOP LT/RT WHITE, DBL NPZ
329+63.00		341+59.00	1196.0	1	0	3887			EOP LT/RT, NPZ (LT), SKIPS
341+59.00		420+08.00	7849.0	1	0	17660			EOP LT/RT, SKIPS
			<b>DEDUCTIONS</b>	<b>908</b>	<b>0</b>	<b>0</b>			
			<b>TOTALS</b>	<b>91816</b>	<b>11546</b>	<b>2566</b>			

STA.	→	STA.	LENGTH FEET	DEDUCTIONS FEET	WIDTH FEET	AGGREGATE WEDGE SHOULDER, TYPE B	RAISED REFLECTIVE PAVEMENT MARKERS	SHOULDER RUMBLE STRIPS, 8 INCH	
						48102100 TON	78100100 EACH	64200108 FEET	
35+20.00		420+08.00	38488.0	5591	3	3221.2			
35+20.00		420+08.00	38488.0	265.8			477.8		
35+20.00		420+08.00	38488.0	1173.8				75802.2	
						<b>TOTALS</b>	<b>3222</b>	<b>478</b>	<b>75803</b>

PLEASE NOTE: ALL RPM ARE AMBER

## PATCHES AT PCBC

STA.	LANE	LENGTH FEET	WIDTH FEET	AREA SQ YD	CLASS D PATCHES, TYPE IV, 11 INCH	
					44201783 SQ YD	
274+64.00	NB	21.3	18.1	42.9	42.9	TYPE IV
274+64.00	SB	21.3	18.5	43.7	43.7	TYPE IV
302+25.00	NB	26.4	18.7	54.8	54.8	TYPE IV
302+25.00	SB	26.4	18.9	55.3	55.3	TYPE IV
					<b>TOTALS</b>	<b>197</b>

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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 2/4/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	8
CONTRACT NO. 74760				
ILLINOIS FED. AID PROJECT				





# SURVEY MARKERS

POINT #	STA	OFFSET	NORTHING	EASTING	TYPE	DESCRIPTION	X-TIES	PROPOSED	PROTECTING OR RESETTING SURVEY MARKERS	PERMANENT SURVEY MARKERS, TYPE 1	SURVEY MARKER VAULTS
								Protect or Reset	Z0049799	66700205	Z0070202
2000	30+01.30	0	1001085.254	850384.55	DISK	DISK IN CL IL 128	YES	Type 1 - Alum. IDOT Disk		1	
2001	35+01.32	11.0 FT RT	1001583.894	850426.407	IP WITH IDOT CAP	IP IN VAULT IN NB EDGE OF PVMNT IL 128	YES	Install New Vault and Protect or Reset IP W/CAP	1		1
1000	48+38	0.5 FT RT	1002921.32	850420.598	BENT IP	BENT IP IN CL IL 128, NEAR INTERSECTION OF 12TH STREET. NW CORNER OF SECTION 7, T11N, R4E.	YES	IRON PIN (IP)	1		
2002	60+00.00	0	1004082.736	850416.91	BENT IP	POT - IP IN CL IL 128	YES	Type 1 - Alum. IDOT Disk		1	
2003	79+50.33	0	1006033.104	850409.423	BENT IP	PI - NO CURVE - IP IN CL IL 128	YES	Type 1 - Alum. IDOT Disk		1	
2004	140+00	0	1012082.537	850388.487	IP	POT - IP IN CL IL 128	YES	Type 1 - Alum. IDOT Disk		1	
1001	154+94	1.0 FT RT	1013575.9	850384.2	STEEL PLATE IN VAULT	STEEL PLATE WITH CUT "+" INSIDE ALUM VAULT IN NBL IL 128, NEAR INTERSECTION OF 1600N. SE CORNER OF SECTION 25, T12N, R3E.	YES	Install New Vault and Protect or Reset Steel Plate	1		1
2005	170+00	0	1015082.448	850377.957	IP	IP IN CL IL 128	YES	Type 1 - Alum. IDOT Disk		1	
1002	181+34	1.0 FT RT	1016216.2	850375.1	VAULT	UNABLE TO OPEN VAULT (POSSIBLE DISK IN VAULT) @ CL IL 128 NEAR INTERSECTION 1650 N. W 1/4 CORNER OF SECTION 30, T12N, R4E.	YES	Install New Vault and Protect or Reset Disk	1		1
2006	200+00	0	1018082.318	850367.513	IP	POT - IP IN CL IL 128	YES	Type 1 - Alum. IDOT Disk		1	
2007	230+00.24	0	1021082.104	850356.956	IP	POT - IP IN CL IL 128	YES	Type 1 - Alum. IDOT Disk		1	
2008	260+07.44	0	1024089.26	850346.637	MAGNAIL	PI - NO CURVE - MAGNAIL IN CL IL 128	YES	Type 1 - Alum. IDOT Disk		1	
1003	262+06	8.0 FT RT	1024287.9	850355.3	VAULT	UNABLE TO OPEN VAULT (POSSIBLE STEEL PLATE) IN NBL IL 128 NEAR INTERSECTION OF 1800N. SE CORNER OF SECTION 13, T12N, R3E.	YES	Install New Vault and Protect or Steel Plate	1		1
2009	280+00.32	0	1026082.205	850343.038	IP	POT - IP IN CL IL 128	YES	Type 1 - Alum. IDOT Disk		1	
1004	288+45	5.0 FT RT	1026927.3	850346.5	DISK IN VAULT	ALUM DISK IN VAULT IN NBL IL 128 NEAR INTERSECTION OF 1850 N. E 1/4 CORNER OF SECTION 13, T12N, R3E.	YES	Install New Vault and Protect or Reset Disk	1		1
2010	302+57.27	0	1028339.095	850339.042	IP	PI - NO CURVE	YES	Type 1 - Alum. IDOT Disk		1	
1005	314+01	0	1029482.8	850338.3	IDOT DISK	IDOT BRASS DISK IN CL IL 128 ON OVERPASS OVER RAILROAD. SW CORNER SEC 7, T12N, R4E.	YES	Type 1 - Alum. IDOT Disk		1	
1006	314+86	0	1029567.2	850338.4	IDOT DISK	IDOT BRASS DISK IN CL IL 128 ON OVERPASS OVER RAILROAD. SE CORNER SECTION 12, T12N, R3E.	YES	Type 1 - Alum. IDOT Disk		1	
2011	336+36.95	0	1031718.79	850332.998	MAGNAIL	PI - NO CURVE	YES	Type 1 - Alum. IDOT Disk		1	
1007	340+05	2.3 FT RT	1032123.974	850335.115	IDOT DISK	IDOT DISK IN NBL IL 128 NEAR INTERSECTION OF 1950 N. W 1/4 CORNER SECTION 7, T12N, R4E.	YES	Type 1 - Alum. IDOT Disk		1	
1008	341+26	2.4 FT RT	1032207.916	850335.027	IDOT DISK	IDOT DISK IN NBL IL 128 NEAR INTERSECTION 1950 N. E 1/4 CORNER SECTION 12, T12N,R3E.	YES	Type 1 - Alum. IDOT Disk		1	
2012	365+99.81	0	1034681.646	850327.779	IP	POT - IP IN CL IL 128	YES	Type 1 - Alum. IDOT Disk		1	
1009	367+17	0	1034798.5	850327.7	IP	IRON PIN IN CL IL 128. NW CORNER OF SEC 7, T12N, R4E.	YES	IRON PIN (IP)	1		
1010	367+65	0	1034846.8	850327.5	IP	IRON PIN IN CL IL 128. NE CORNER SEC 12, T12N, R3E.	YES	IRON PIN (IP)	1		
1011	393+62	0	1037443.7	850322.1	RR SPIKE	RR SPIKE IN CL IL 128. W 1/4 CORNER OF SEC 6, T12N R4E. (NO MON REC.)	NO	Railroad Spike	1		
1012	394+10	0	1037492.1	850322	RR SPIKE	RR SPIKE IN CL IL 128. E 1/4 CORNER OF SEC 1, T12N, R3E. (NO MON. REC)	NO	Railroad Spike	1		
2013	396+00	0	1037681.567	850322.49	MAGNAIL	POT - MAGNAIL IN CL IL 128	YES	Type 1 - Alum. IDOT Disk		1	
1013	420+56	1.0 FT LT	1040137.525	850316.566	VAULT	UNABLE TO OPEN VAULT, STEEL PLATE 4INCHES BELOW PAVEMENT IN NBL IL 128, NEAR INTERSECTION OF 2100N. SE CORNER OF SECTION 36, T13N, R3E.	YES	Install New Vault and Protect or Reset Steel Plate	1		1
<b>TOTAL</b>								<b>11</b>	<b>17</b>	<b>6</b>	

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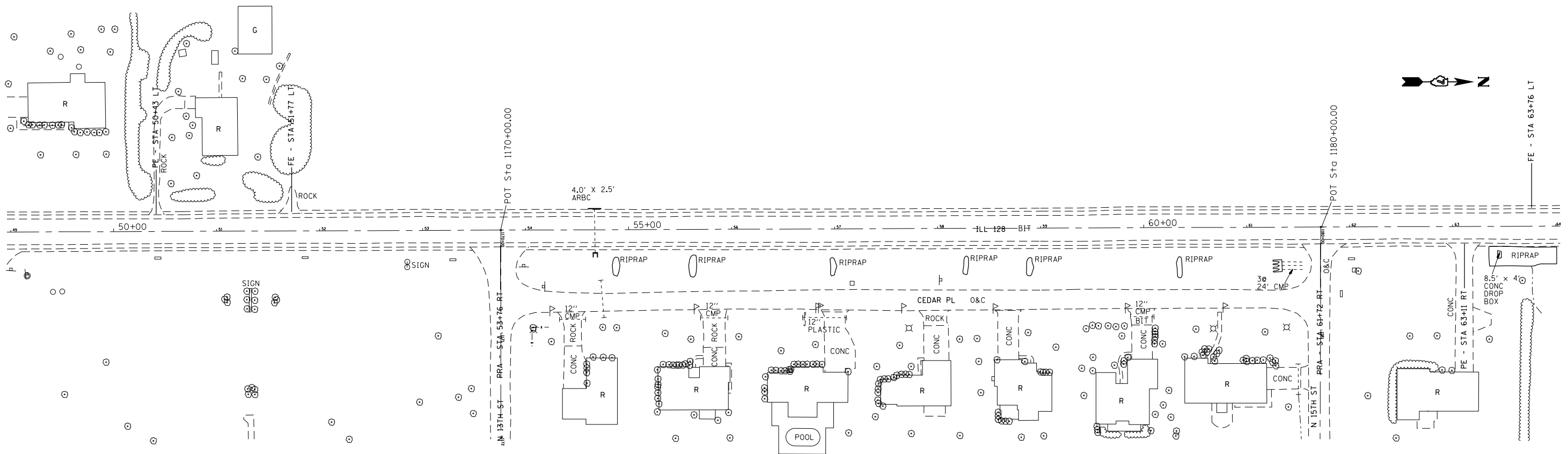
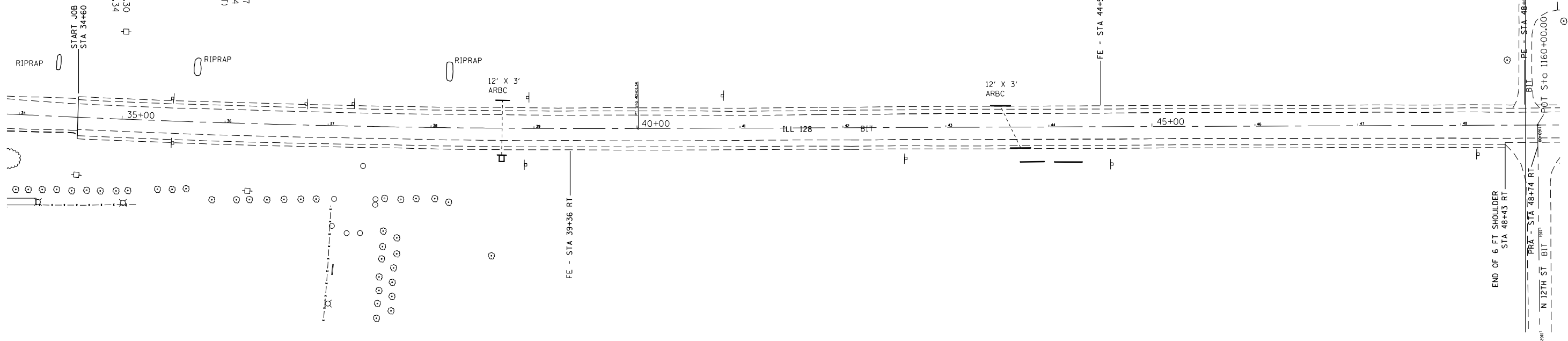
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES**

SCALE:      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	10
			CONTRACT NO. 74760	
		ILLINOIS   FED. AID PROJECT		

EXIST. CURVE CURT  
 P1 STA. = 35+01.64  
 $\Delta = 5^\circ 01' 26''$  (LT)  
 $D = 0^\circ 30' 08''$   
 $R = 11,405.33'$   
 $T = 500.34'$   
 $L = 1,000.04'$   
 $E = 10.97'$   
 T.R. = -----  
 S.E. RUN = -----  
 P.C. STA. = 30+01.30  
 P.T. STA. = 40+01.34



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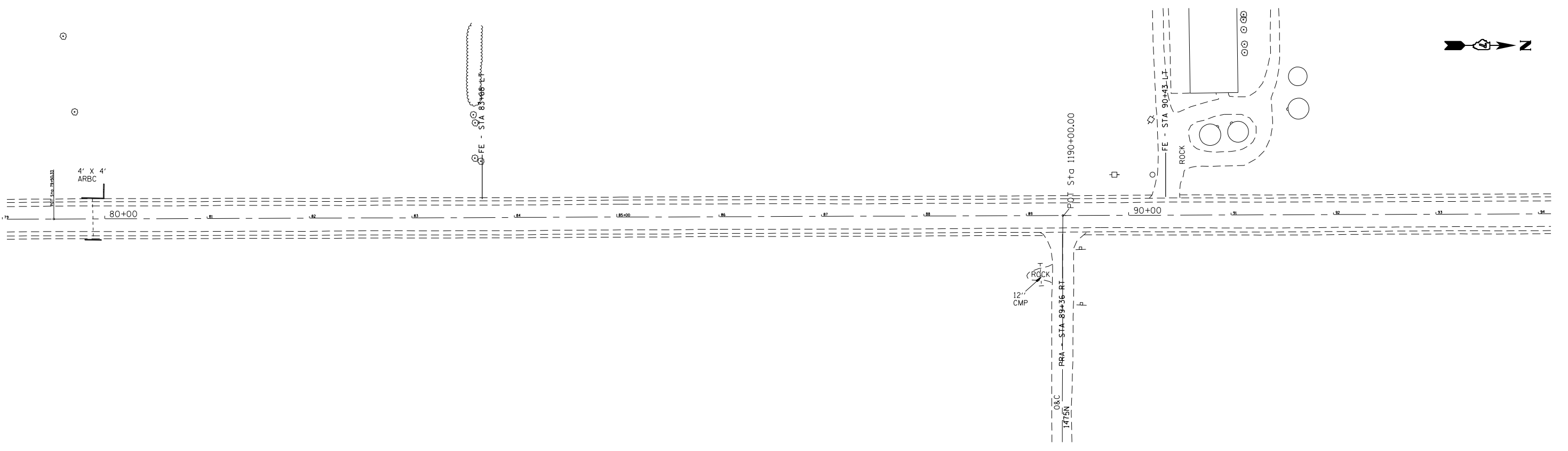
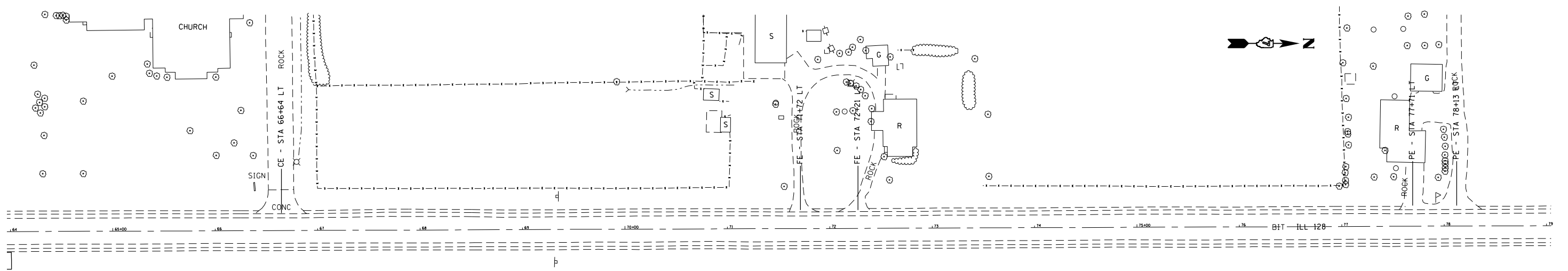
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN VIEWS  
 34 + 60 TO 64 + 00**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 770	SECTION (114,115)RS-2	COUNTY SHELBY	TOTAL SHEETS 35	SHEET NO. 11
CONTRACT NO. 74760				
ILLINOIS FED. AID PROJECT				

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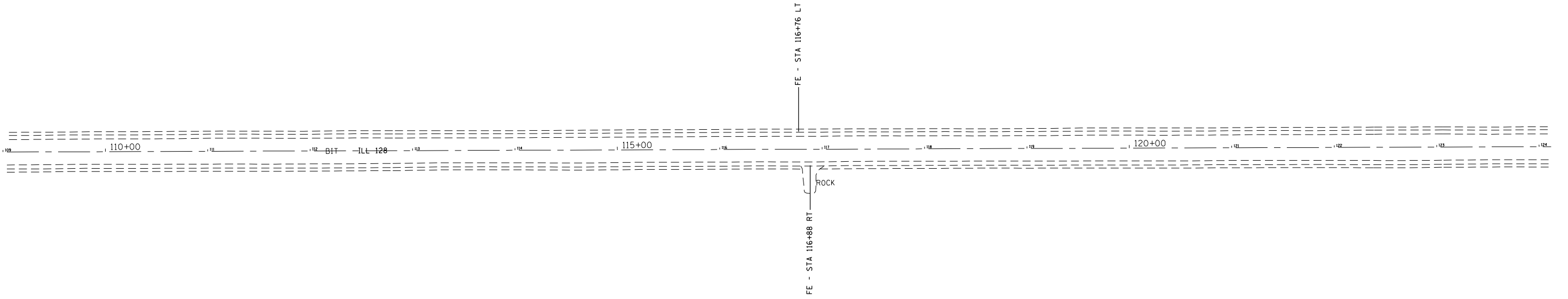
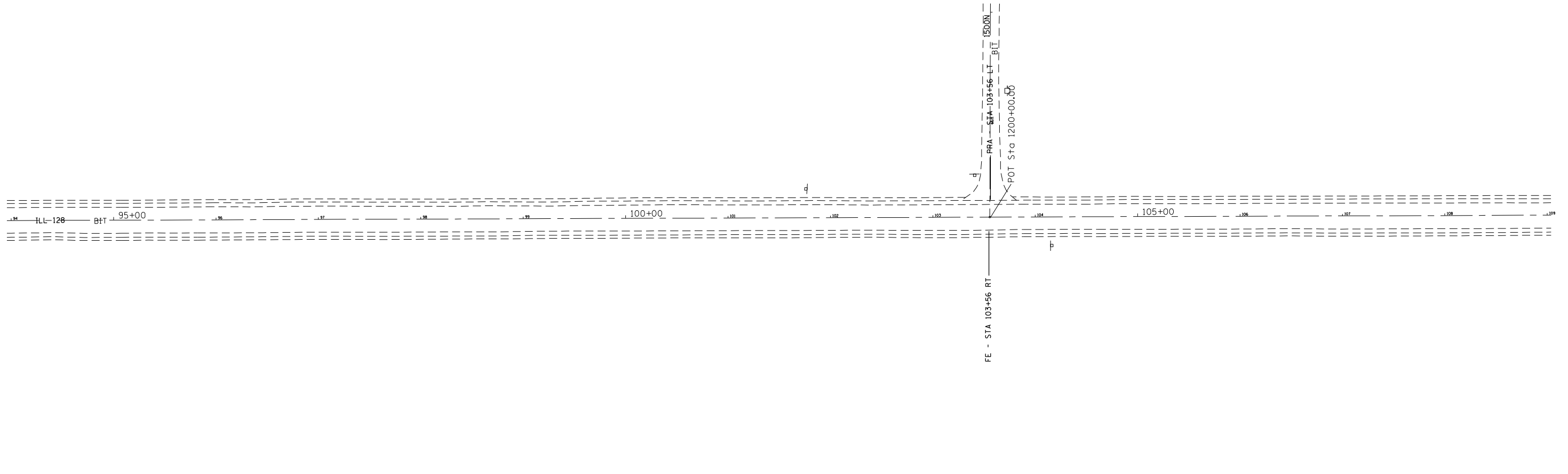
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PLAN VIEWS  
 64 + 00 TO 94 + 00**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	12
CONTRACT NO. 74760				
ILLINOIS FED. AID PROJECT				





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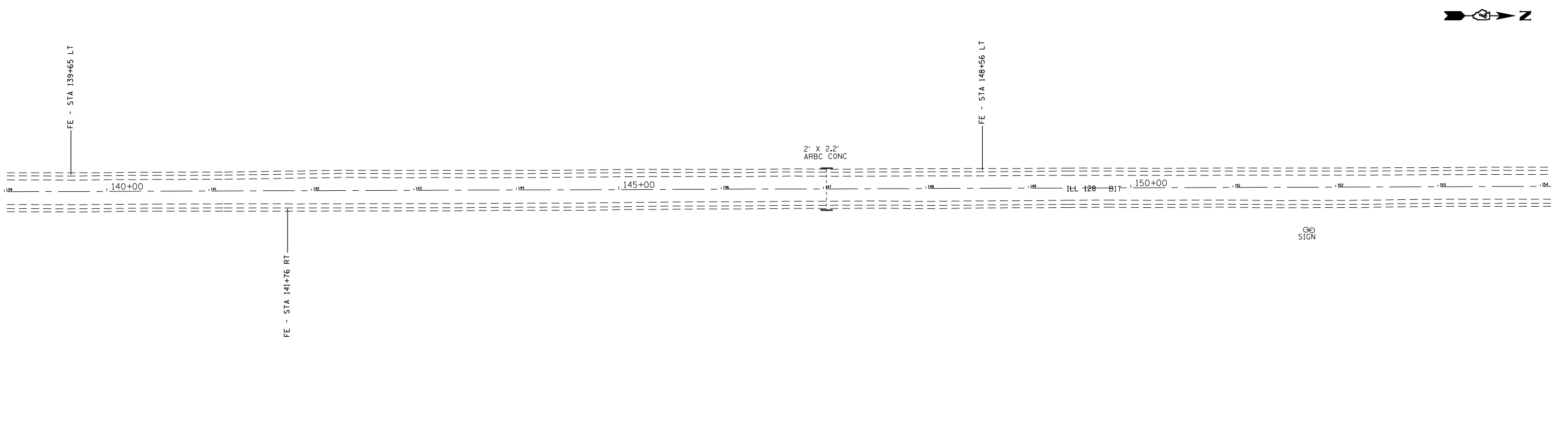
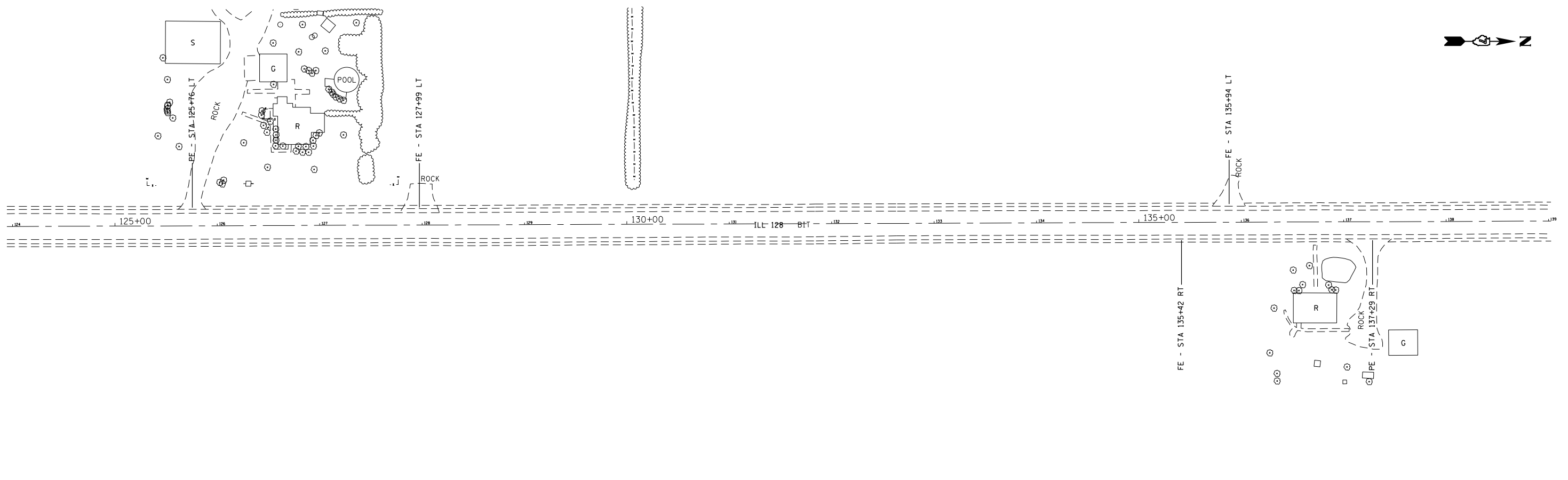
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>PLAN VIEW</b>				
<b>94 + 00 TO 124 + 00</b>				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	13
CONTRACT NO. 74760			ILLINOIS FED. AID PROJECT	

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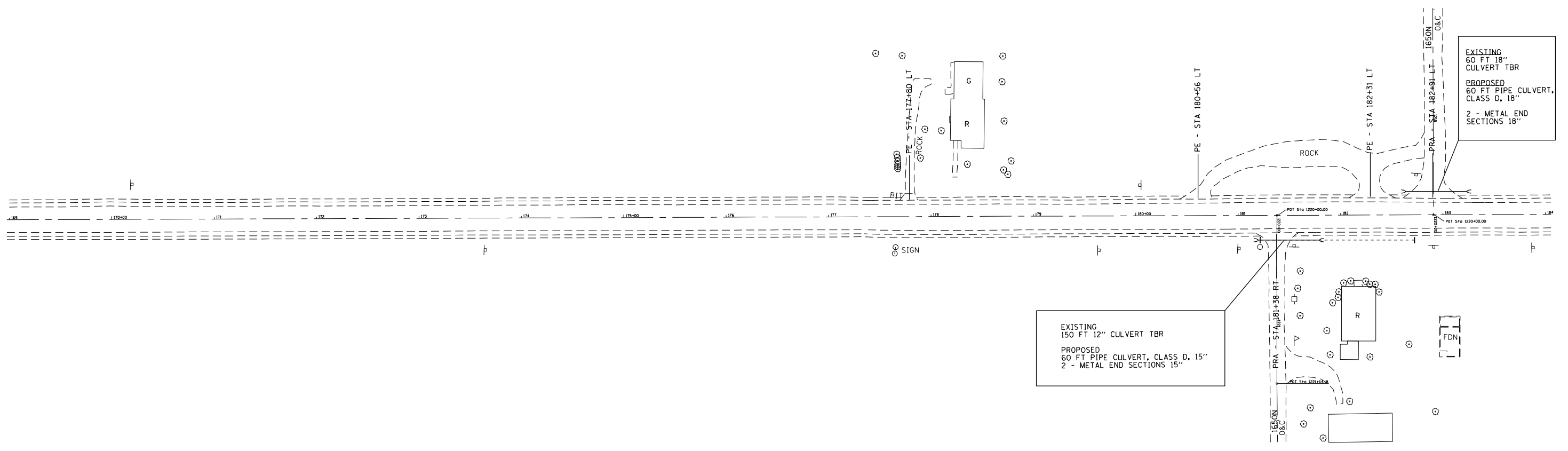
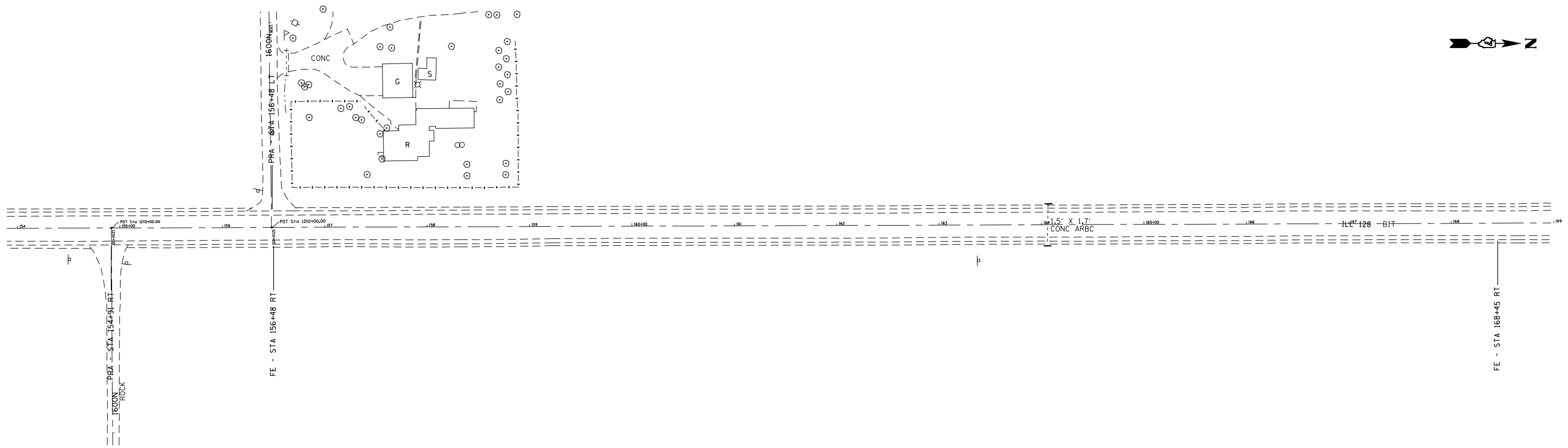
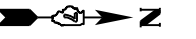


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	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>PLAN VIEW</b>				
<b>94 + 00 TO 154 + 00</b>				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	14
CONTRACT NO. 74760				
ILLINOIS FED. AID PROJECT				



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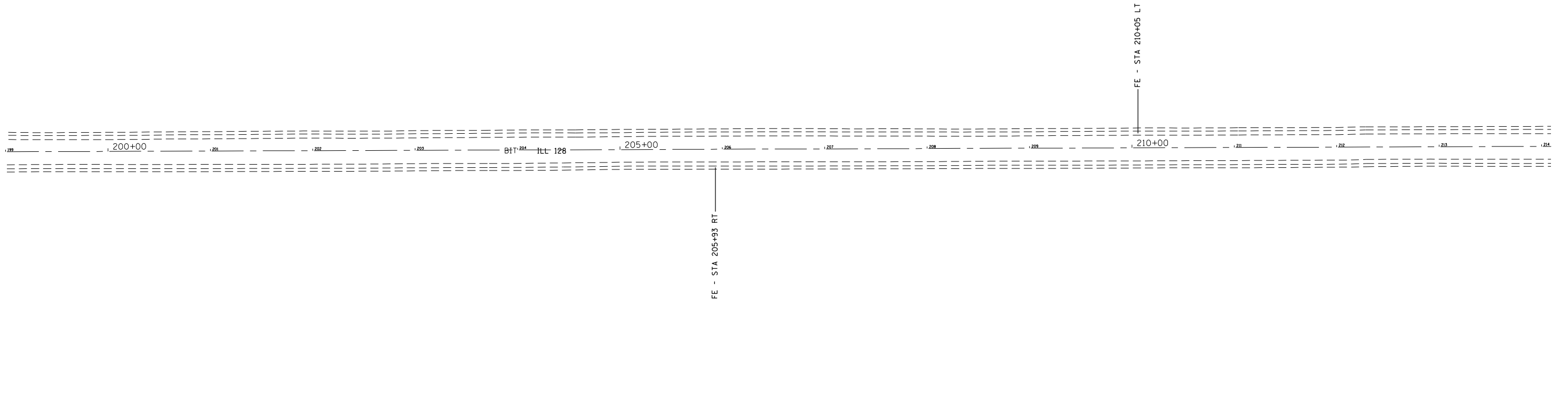
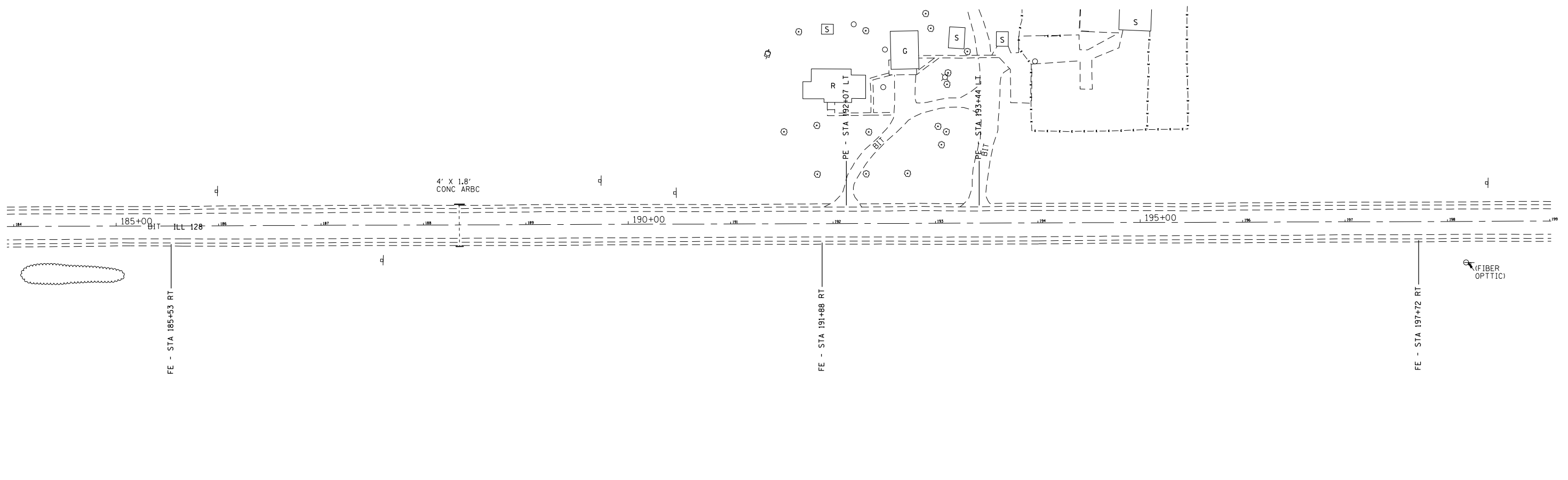
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PLAN VIEW</b>			
<b>154 + 00 TO 184 + 00</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	15
CONTRACT NO. 74760				
ILLINOIS		FED. AID PROJECT		

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

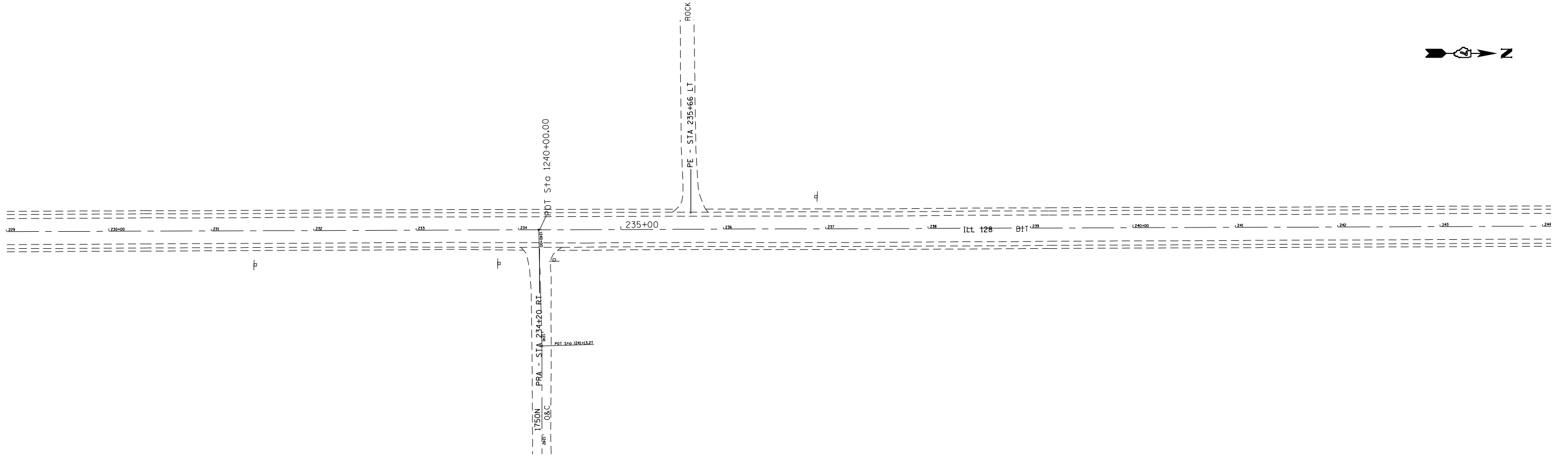
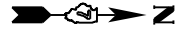
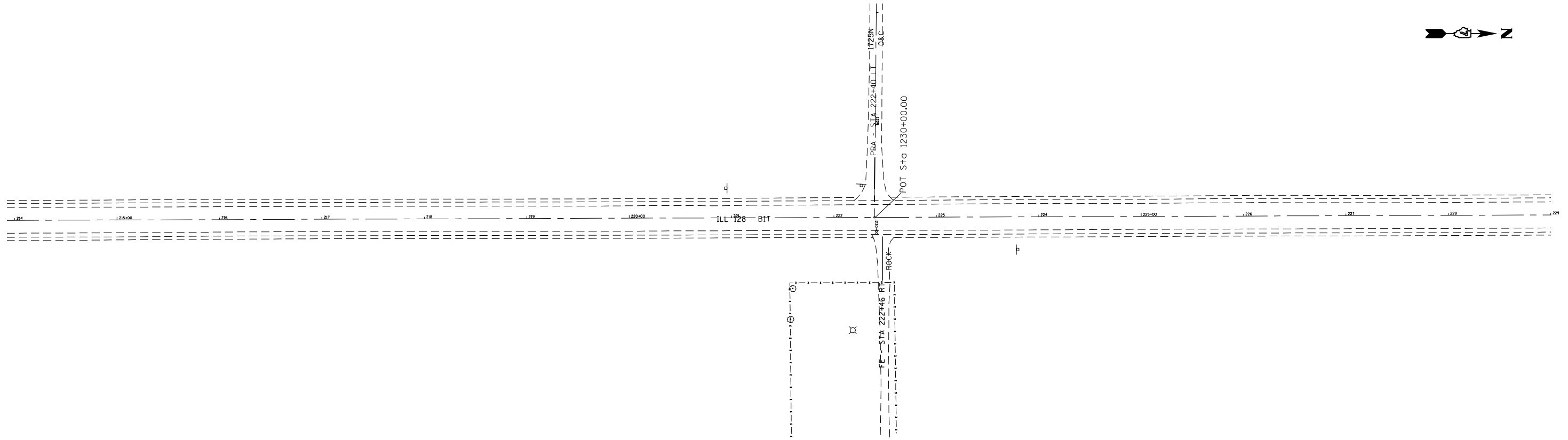
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 184 + 00 TO 214 + 00**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 770	SECTION (114,115)RS-2	COUNTY SHELBY	TOTAL SHEETS 35	SHEET NO. 16
ILLINOIS				FED. AID PROJECT

CONTRACT NO. 74760





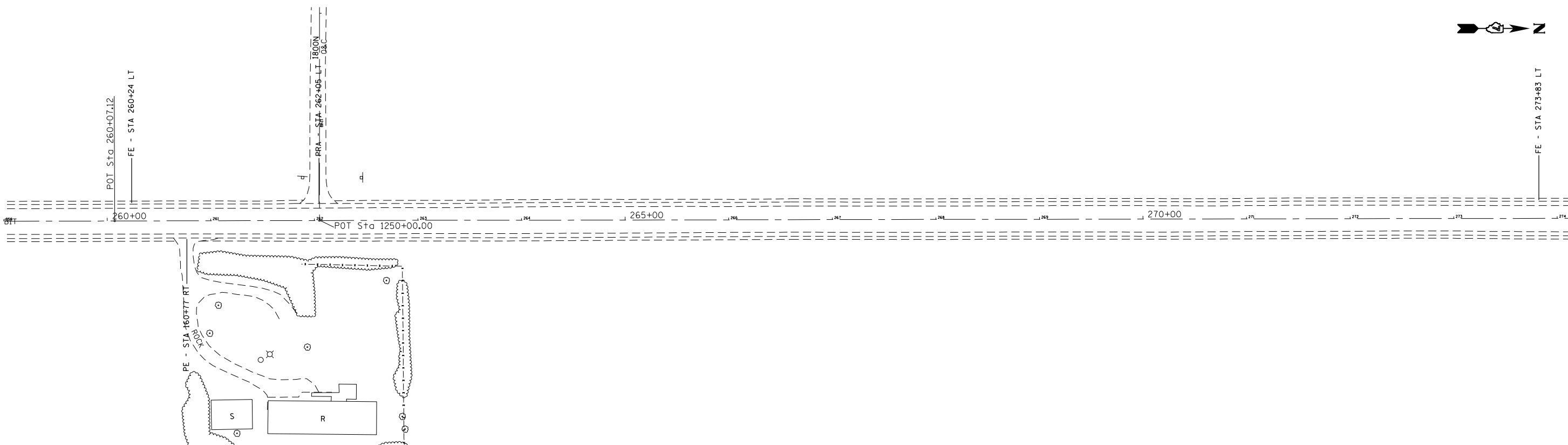
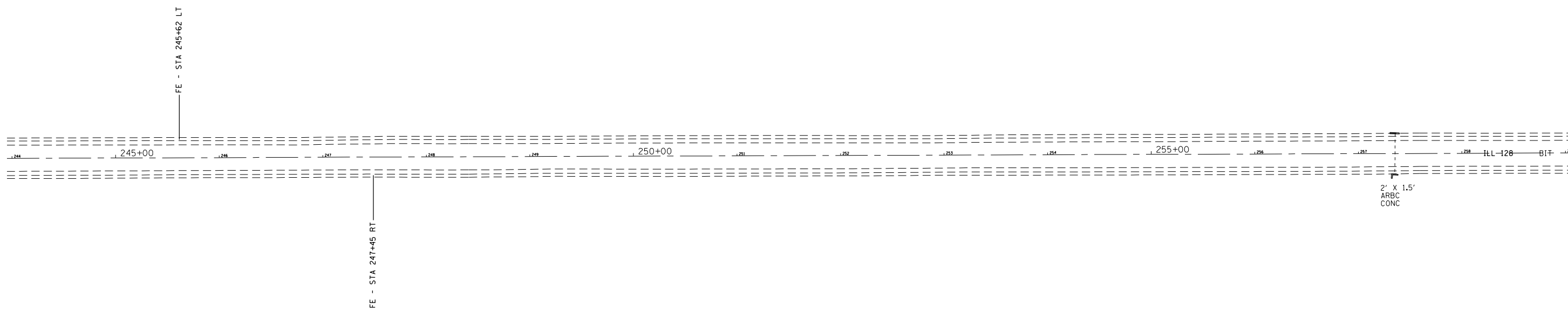
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PLAN VIEW</b>			
<b>214 + 00 TO 244 + 00</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	17
CONTRACT NO. 74760			ILLINOIS FED. AID PROJECT	



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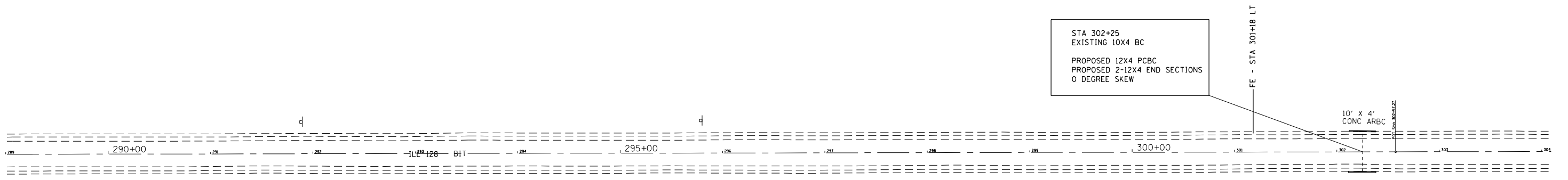
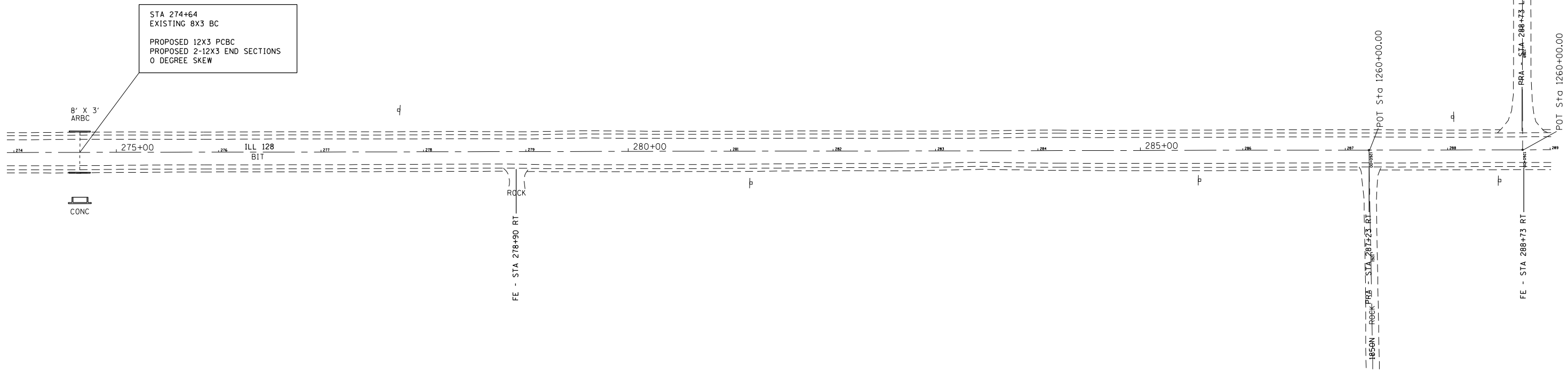
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	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PLAN VIEW</b>			
<b>244 + 00 TO 274 + 00</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	18
ILLINOIS FED. AID PROJECT			CONTRACT NO. 74760	

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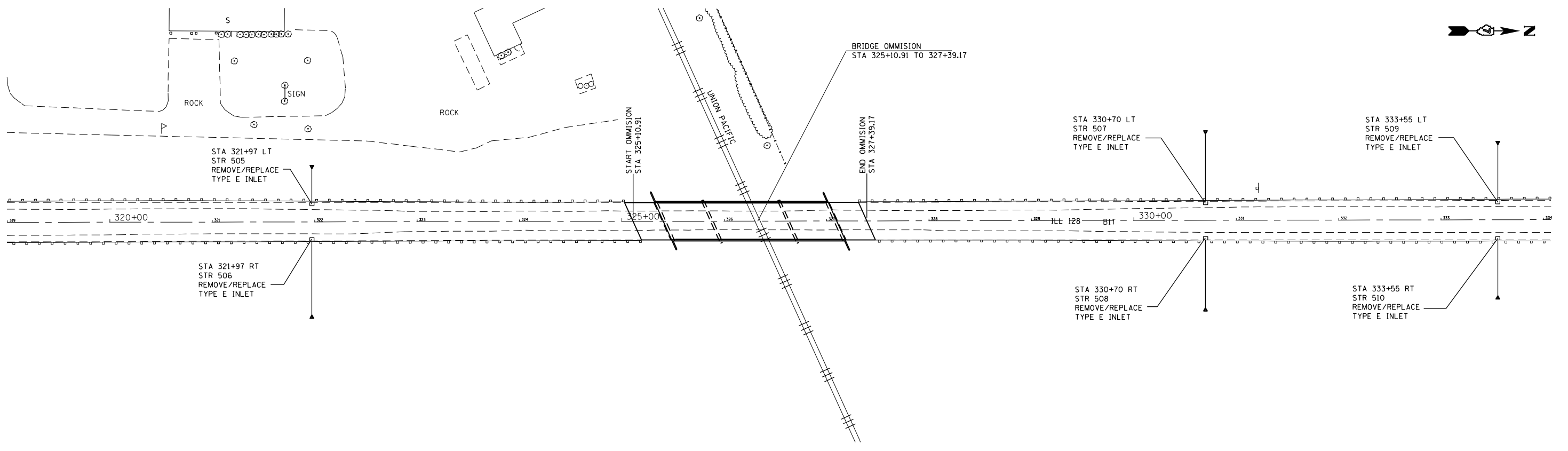
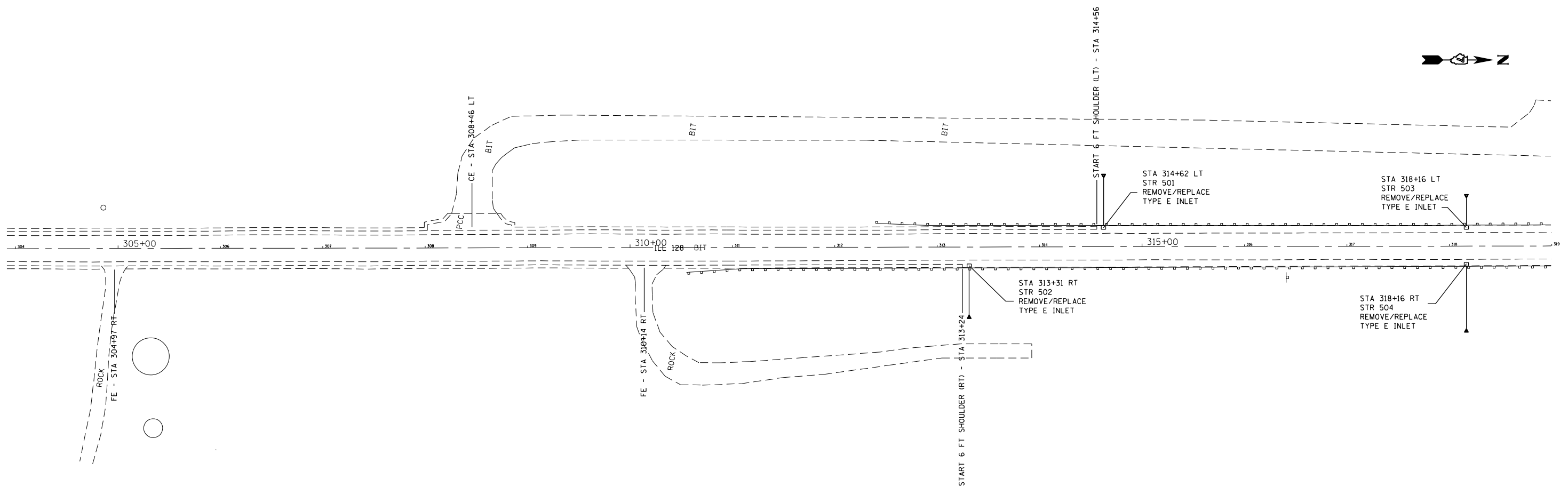
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>PLAN VIEW</b>			
<b>274 + 00 TO 304 + 00</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	19
CONTRACT NO. 74760				
ILLINOIS FED. AID PROJECT				

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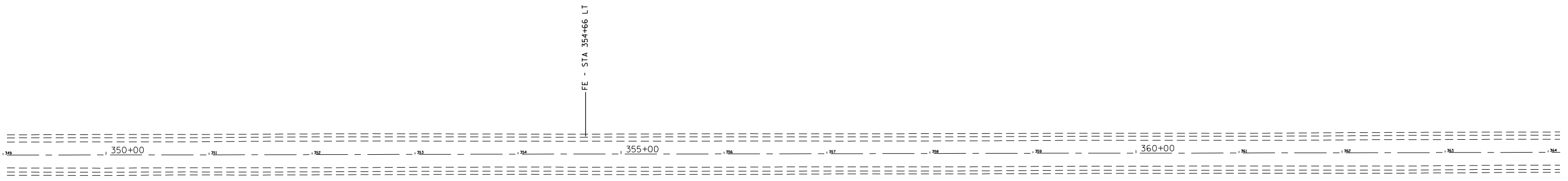
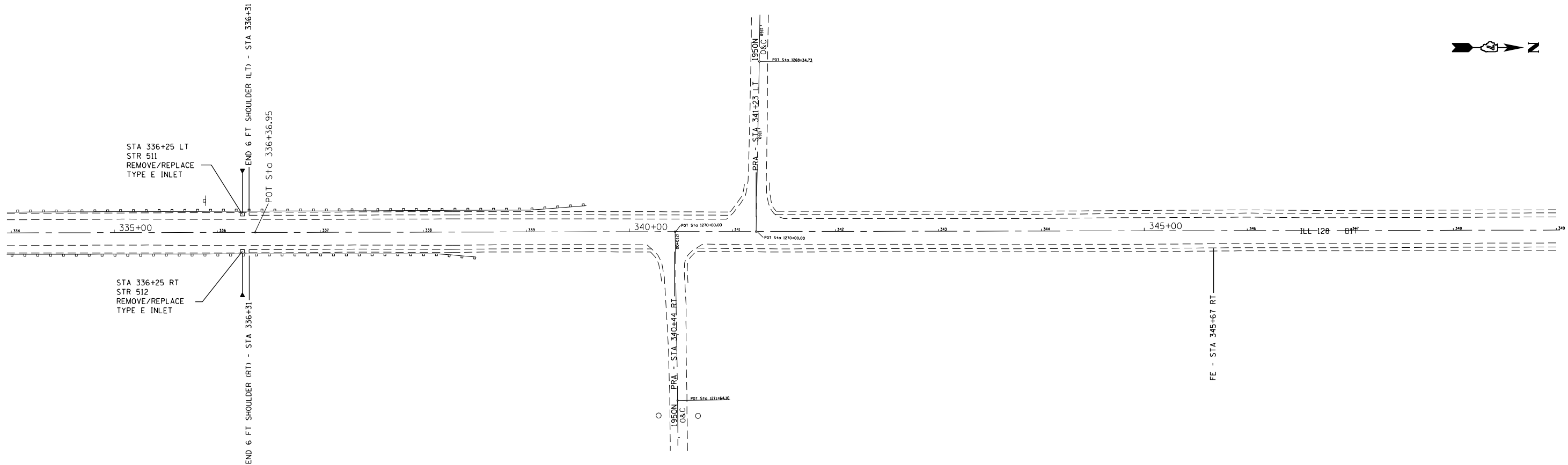
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PLOT DATE = 2/4/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PLAN VIEW</b>				
<b>304 + 00 TO 334 + 00</b>				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	20
CONTRACT NO. 74760				
ILLINOIS FED. AID PROJECT				





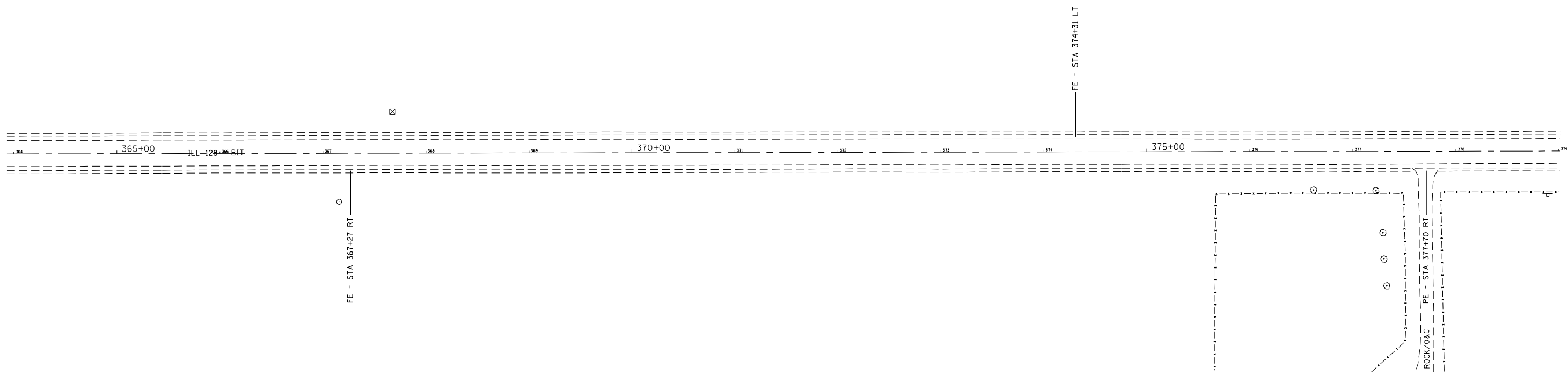
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PLOT DATE = 2/4/2021	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PLAN VIEW</b>			
<b>334 + 00 TO 364 + 00</b>			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	21
ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 74760				



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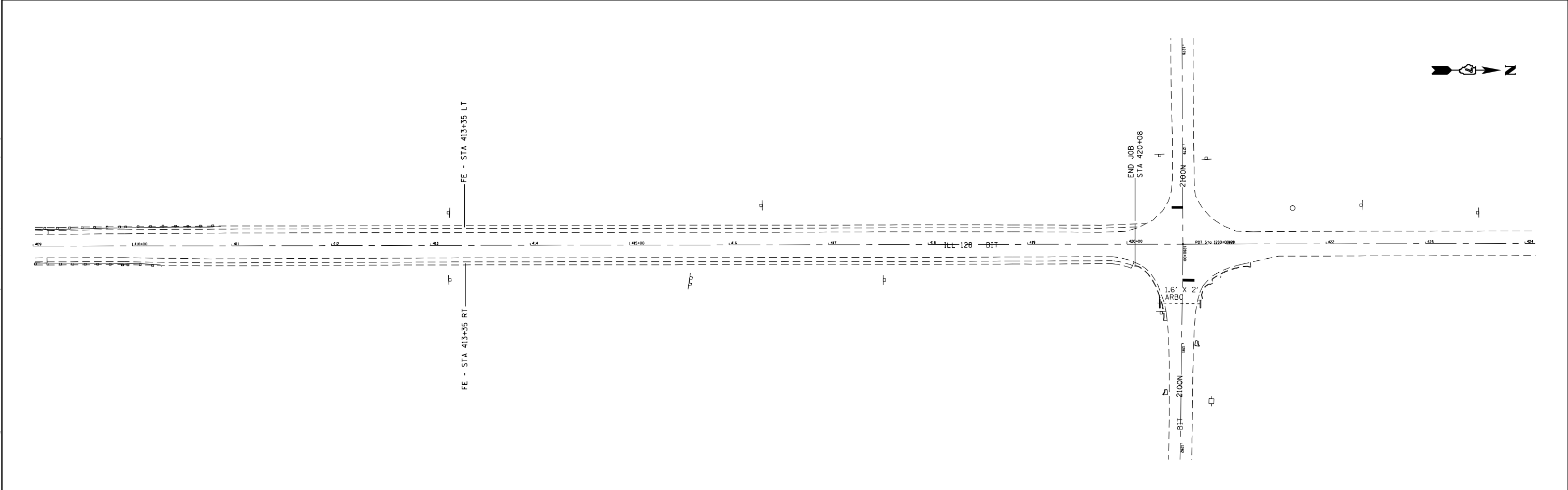
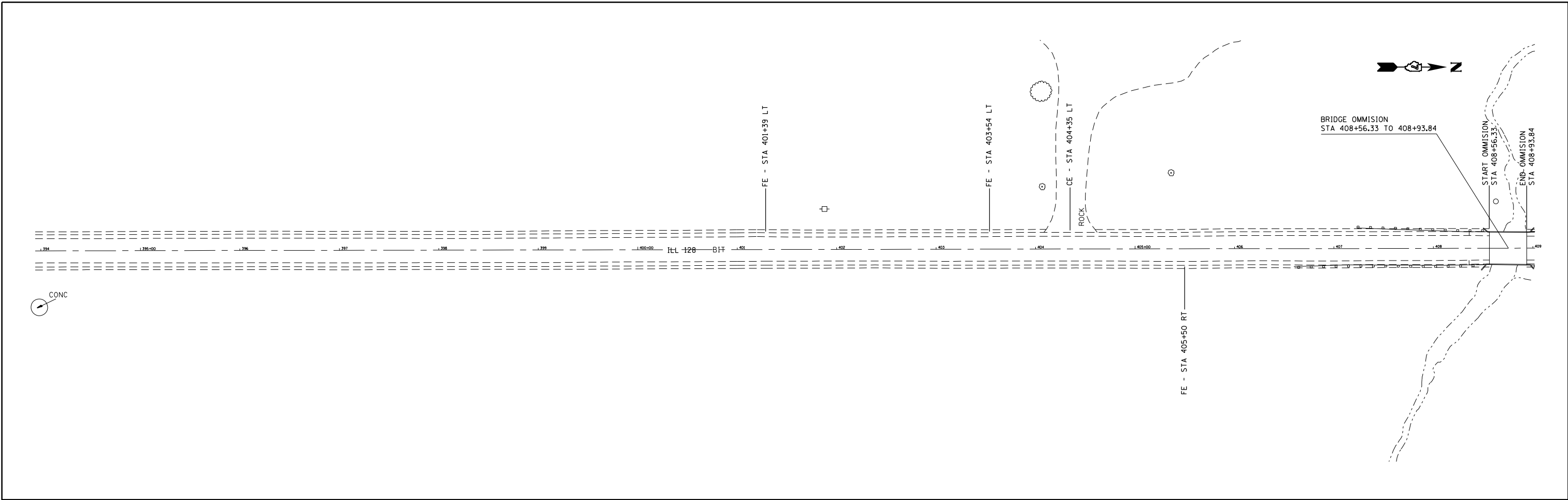
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**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>PLAN VIEW</b>			
<b>364 + 00 TO 394 + 00</b>			
SCALE:	SHEET	OF	SHEETS
	STA.	TO	STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	22
ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 74760				

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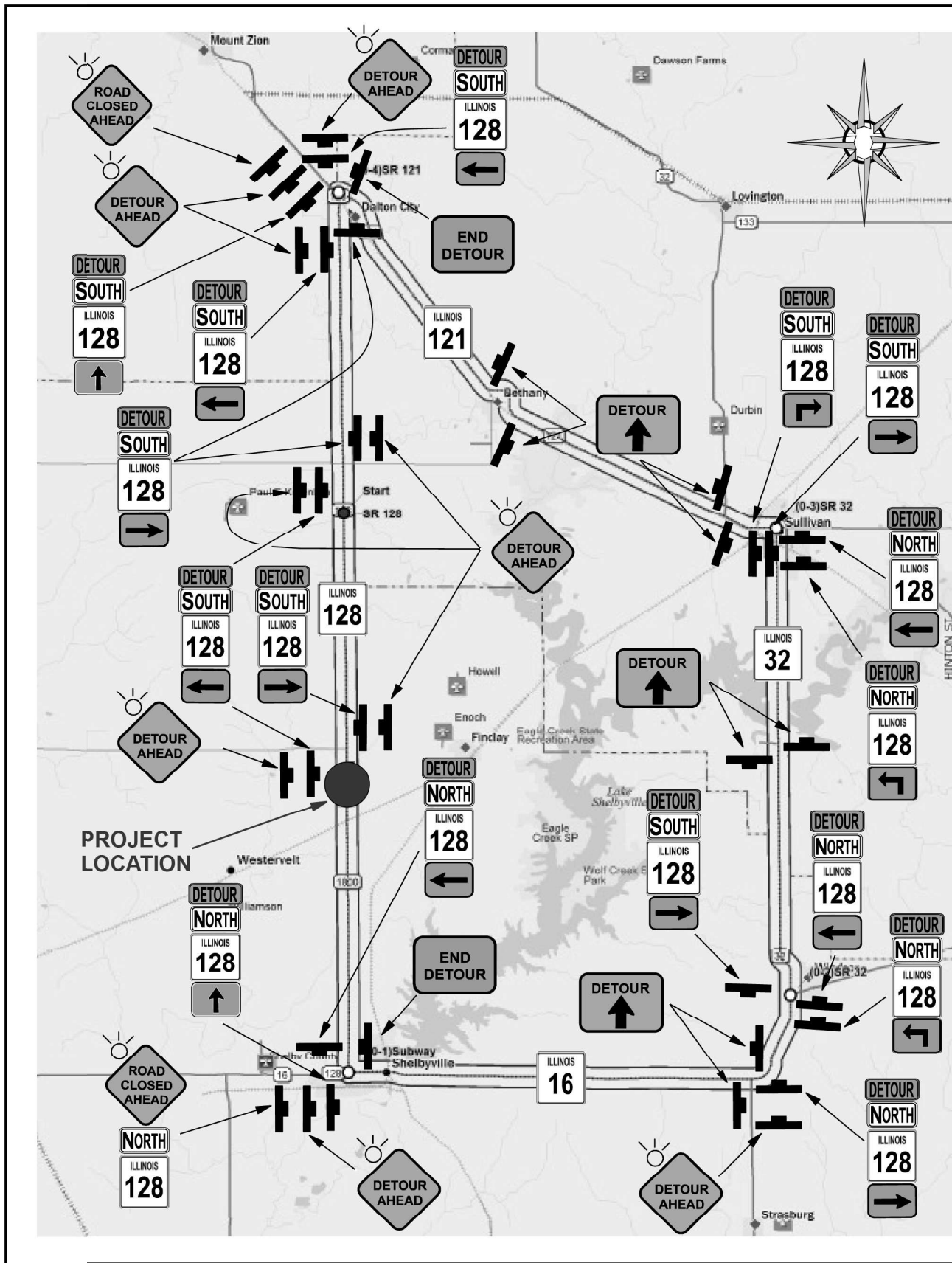
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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**







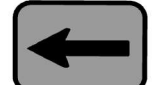







**PLAN VIEW  
 394 + 00 TO 402 + 08**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	23
CONTRACT NO. 74760				
ILLINOIS FED. AID PROJECT				



### SIGN LEGEND

 W20-3(O)-48	 W20-2(O)-48
 M4-9(O)-3024	 M4-8a(O)-3024
 M4-8-2412	 M6-3(O)-3018
 M6-1L(O)-3018	 M6-1R(O)-3018
 M5-1L(O)-3018	 M5-1R(O)-3018
 M3-1-3015	 M3-3-3015
 M1-100-3024	 Flashing Light

SHALL BE USED IN CONJUNCTION WITH STANDARDS BLR 21 & 701901

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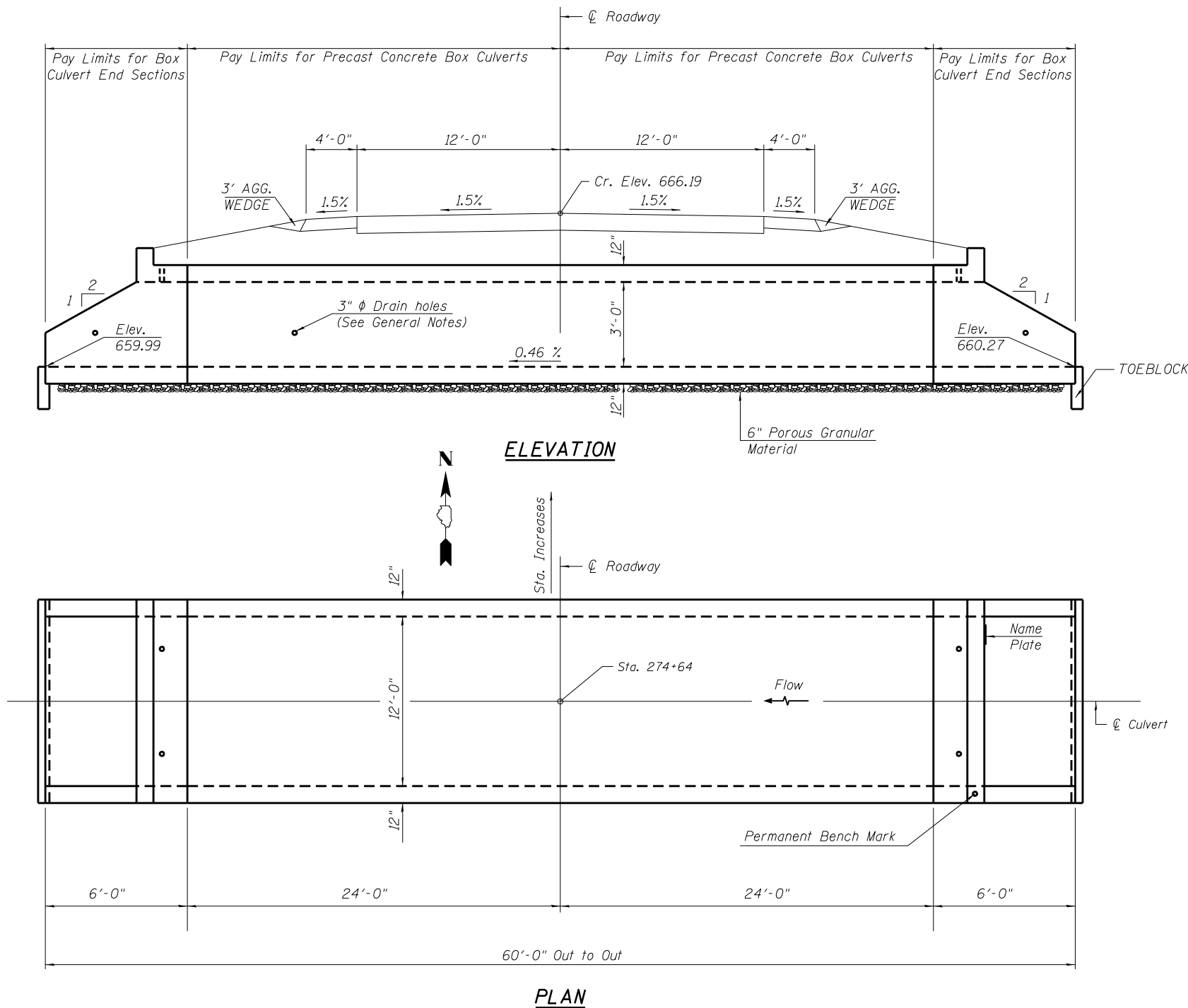
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE:		SHEET OF SHEETS		STA.	TO STA.
		DETOUR SIGNING			

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	24
CONTRACT NO. 74760				
ILLINOIS FED. AID PROJECT				

Existing Structure: S.N. 087-8636, Sta. 274+64, 8.0' x 3.0' Concrete Box Culvert

BM 4647-24: STA. 274+65 50' RT (ELEV 662.906 FT) FOUND CHIS. SQ. ON CENTER OF CONC. WEIR ON E. SIDE OF IL 128, SOUTH OF IL 128 OVERPASS OVER RAILROAD NORTH OF SHELBYVILLE.



**GENERAL NOTES**

The design fill height for this box is 0-10 feet. The precast box culvert sections shall conform to the requirements of ASTM C 1577.

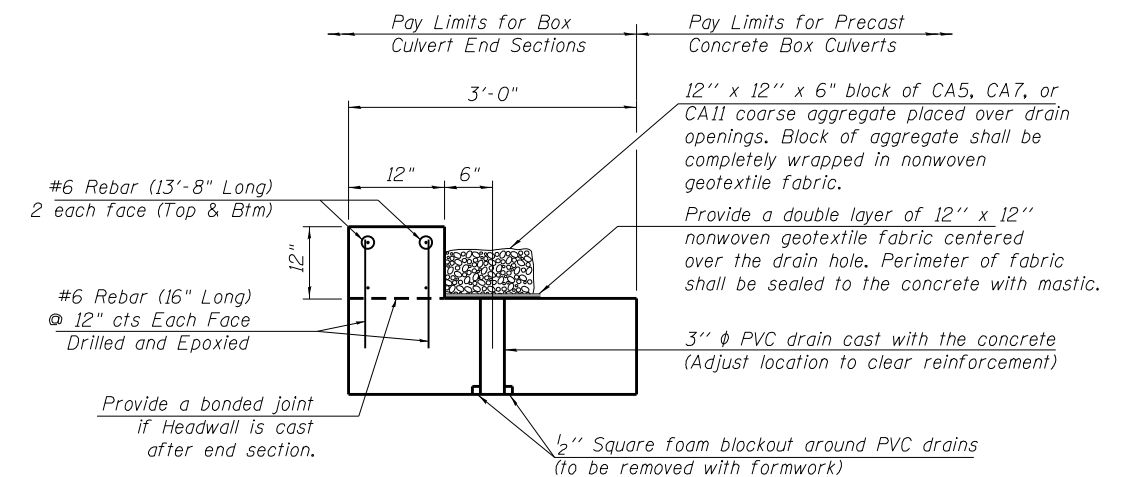
Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard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

The 6 in. thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

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

Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment extending to a vertical plane 2 ft from the exterior sides of the culvert, 2 ft from the back face of the end sections, and not closer than 2 ft from the face of embankment.

All costs associated with furnishing and installing or constructing the headwall will not be measured for payment but shall be included in the unit price for box culvert end sections of the culvert number specified.



**HEADWALL AND DRAIN DETAIL**

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

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications  
6th Edition with 2013 Interims

**LOADING HL-93**

**DESIGN STRESSES**

**PRECAST UNITS**

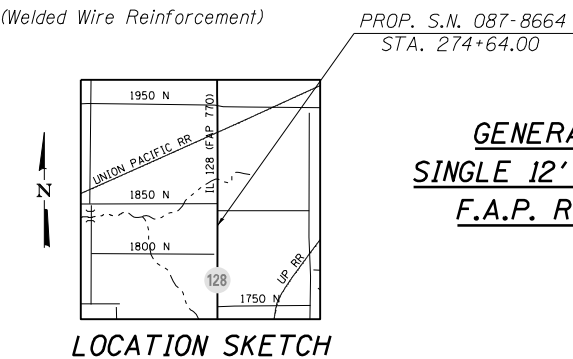
$f'_c = 5,000 \text{ psi}$   
 $f_y = 65,000 \text{ psi}$  (Welded Wire Reinforcement)

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 1	Each	1.0
Name Plates	Each	1.0
Box Culvert End Sections, Culvert No. 1	Each	2.0
Precast Concrete Box Culverts, 12' x 3'	Foot	48.0
Porous Granular Embankment	Cu. Yd.	35.0
Permanent Bench Marks	Each	1.0
Geocomposite Wall Drain	Sq. Yd.	31.0
Membrane Waterproofing	Sq. Yd.	31.0

STATION 274+64.00  
BUILT 2021 BY  
STATE OF ILLINOIS  
F.A.P. RT. 770 IL 128  
SEC (114,115)RS-2  
LOADING HL-93  
STR. NO. 087-8664

**NAME PLATE**  
See Std. 515001



**LOCATION SKETCH**

**GENERAL PLAN AND ELEVATION  
SINGLE 12' X 3' PRECAST BOX CULVERT  
F.A.P. RTE. 770 SEC. (114,115)RS-2  
SHELBY COUNTY  
STATION 274+64  
S.N. 087-8664**

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 OFFICE: District 7  
 DATE: 2/4/2021

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	DATE -	REVISD -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION  
S.N. 087-8664, STA. 274 + 00.00**

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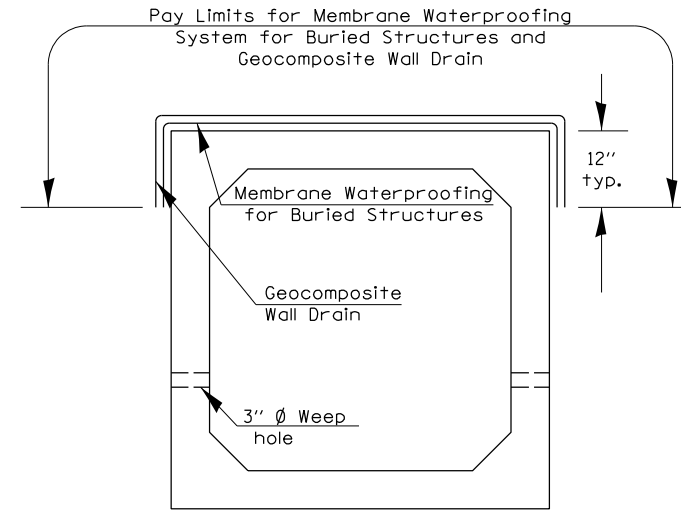
F.A.P. RTE. 770	SECTION (114,115)RS-2	COUNTY SHELBY	TOTAL SHEETS 35	SHEET NO. 25
CONTRACT NO. 74760				
ILLINOIS FED. AID PROJECT				

POROUS GRANULAR EMBANKMENT LIMITS FOR THE BOX CULVERT SHALL EXTEND TO 16 FT RT AND LT OF THE CENTERLINE.

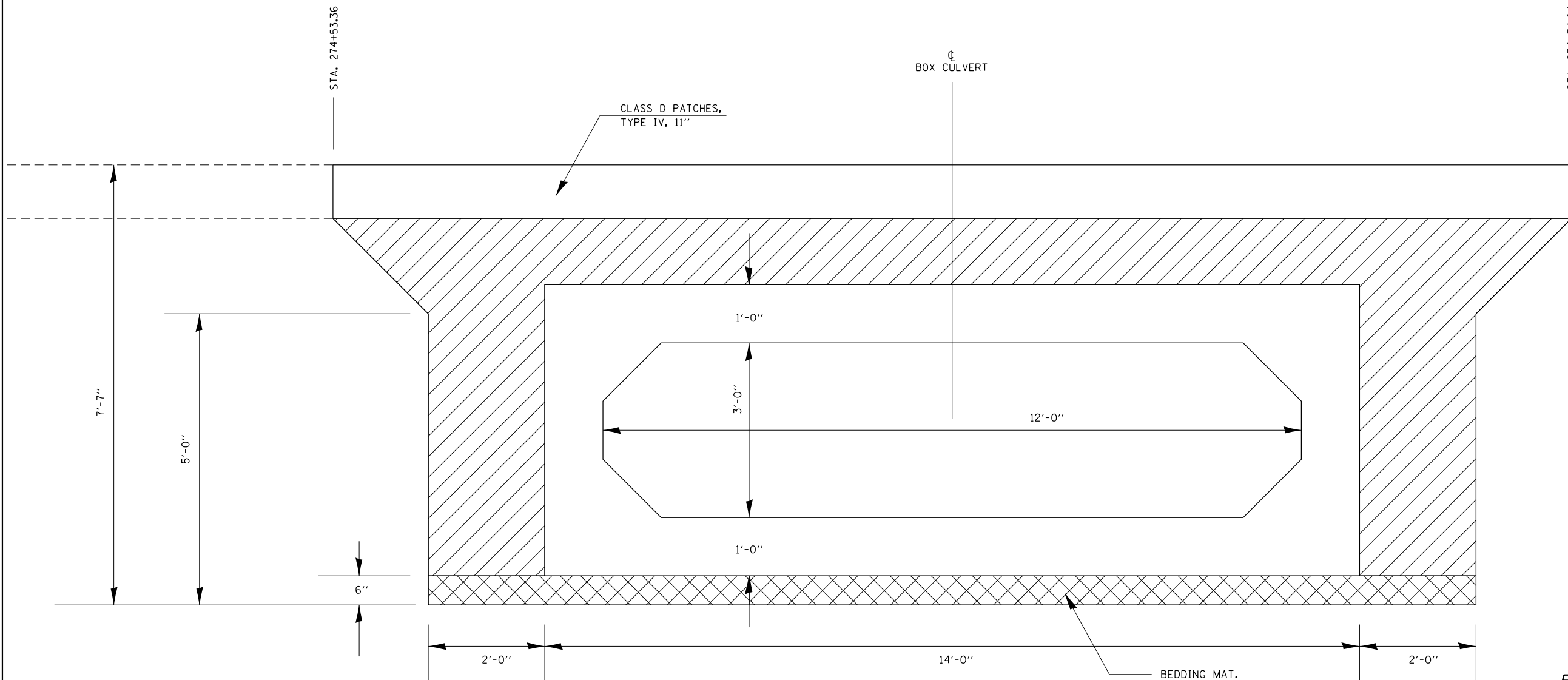
THE WORK SHOWN IN THIS DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLE 207 AND ARTICLE 540 OF THE STANDARD SPECIFICATIONS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD OF POROUS GRANULAR EMBANKMENT.

THE AREA TO BE EXCAVATED FOR THE PROPOSED BOX CULVERT SHALL NOT BE MEASURED FOR PAYMENT. THE COST OF THE EXCAVATION SHALL BE INCLUDED IN THE COST OF PRECAST CONCRETE BOX CULVERTS AND PRECAST CONCRETE BOX CULVERT END SECTIONS.



LEGEND	
	POROUS GRANULAR EMBANKMENT
	BOX CULVERT BEDDING (CA-7 OR CA-11)

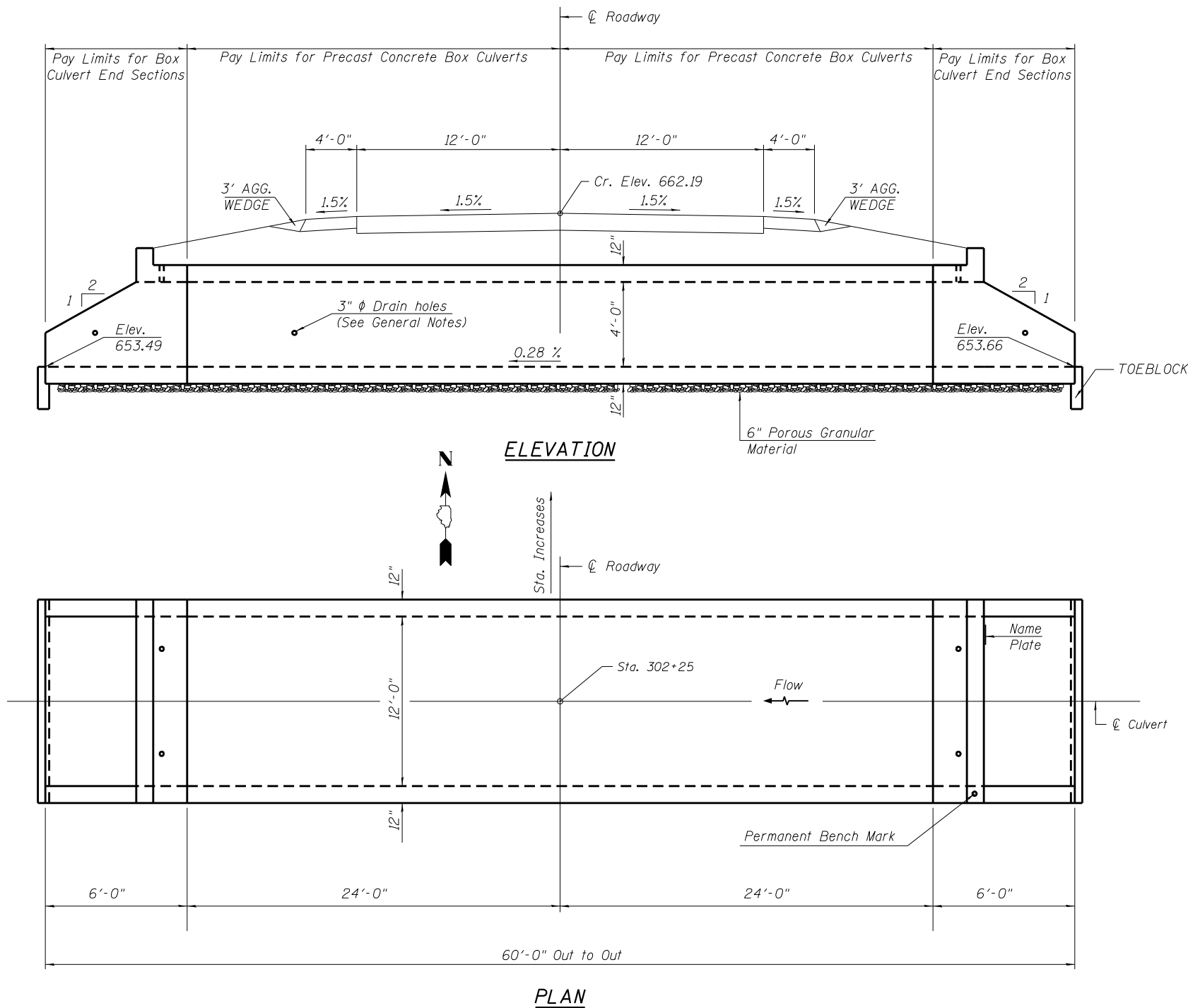


**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	52

Existing Structure: S.N. 087-8637, Sta. 302+25, 10.0' x 4.0' Concrete Box Culvert

BM 400: STA. 305.03 83' RT (ELEV 666.576) CUT SQUARE ON SW CORNER OF GRAIN BIN FAN FOUNDATION, SOUTH OF IL 128 OVERPASS OVER RAILROAD NORTH OF SHELBYVILLE



**GENERAL NOTES**

The design fill height for this box is 0-10 feet. The precast box culvert sections shall conform to the requirements of ASTM C 1577.

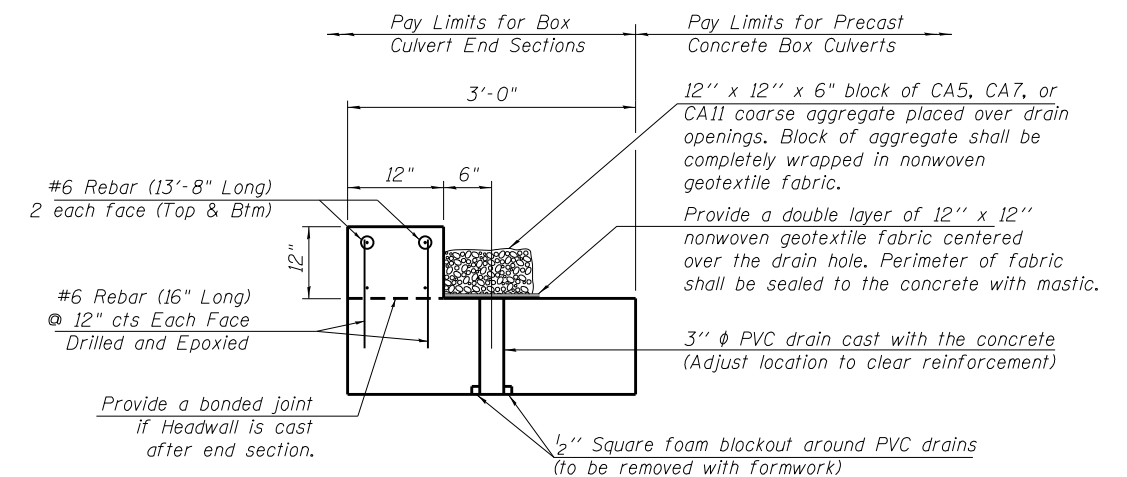
Drain holes shall be provided on exterior culvert walls for each precast box segment with a clear rise greater than 3 ft. The drain hole shall be located within 1/3 of the clear rise of the box culvert, shall not intercept the haunch, and shall conform to the requirements of Article 503.11 of the Standard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

The 6 in. thick layer of porous granular material required for the precast concrete box culvert per Art. 540.06 of the Standard Specifications shall also apply to the end sections. Cost of the porous granular material will not be paid for separately but shall be included in the unit price of the work for which it is required.

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

Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment extending to a vertical plane 2 ft from the exterior sides of the culvert, 2 ft from the back face of the end sections, and not closer than 2 ft from the face of embankment.

All costs associated with furnishing and installing or constructing the headwall will not be measured for payment but shall be included in the unit price for box culvert end sections of the culvert number specified.



**HEADWALL AND DRAIN DETAIL**

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

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications  
6th Edition with 2013 interims

**LOADING HL-93**

**DESIGN STRESSES**

**PRECAST UNITS**

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

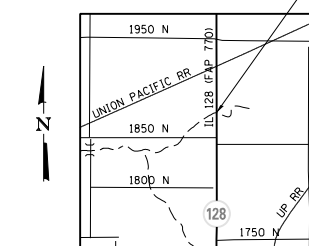
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Removal of Existing Structures No. 2	Each	1.0
Name Plates	Each	1.0
Box Culvert End Sections, Culvert No. 2	Each	2.0
Precast Concrete Box Culverts, 12' x 4'	Foot	48.0
Porous Granular Embankment	Cu. Yd.	54.0
Permanent Bench Marks	Each	1.0
Geocomposite Wall Drain	Sq. Yd.	31.0
Membrane Waterproofing	Sq. Yd.	31.0

STATION 302+25.00  
BUILT 2021 BY  
STATE OF ILLINOIS  
F.A.P. RT. 770 IL 128  
SEC (114,115)RS-2  
LOADING HL-93  
STR. NO. 087-8665

**NAME PLATE**  
See Std. 515001

PROP. S.N. 087-8665  
STA. 302+25.00



**LOCATION SKETCH**

**GENERAL PLAN AND ELEVATION  
SINGLE 12' X 4' PRECAST BOX CULVERT  
F.A.P. RTE. 770 SEC. (114,115)RS-2  
SHELBY COUNTY  
STATION 302+25  
S.N. 087-8665**

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

**GENERAL PLAN AND ELEVATION  
S.N. 087-8665, STA. 302 + 25.00**

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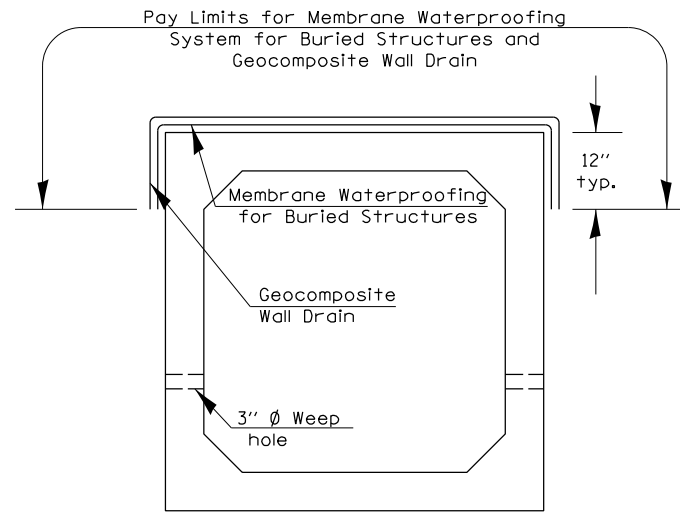
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	27
CONTRACT NO. 74760				
ILLINOIS FED. AID PROJECT				

POROUS GRANULAR EMBANKMENT LIMITS FOR THE BOX CULVERT SHALL EXTEND TO 16 FT RT AND LT OF THE CENTERLINE.

THE WORK SHOWN IN THIS DETAIL SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLE 207 AND ARTICLE 540 OF THE STANDARD SPECIFICATIONS.

THIS WORK SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC YARD OF POROUS GRANULAR EMBANKMENT.

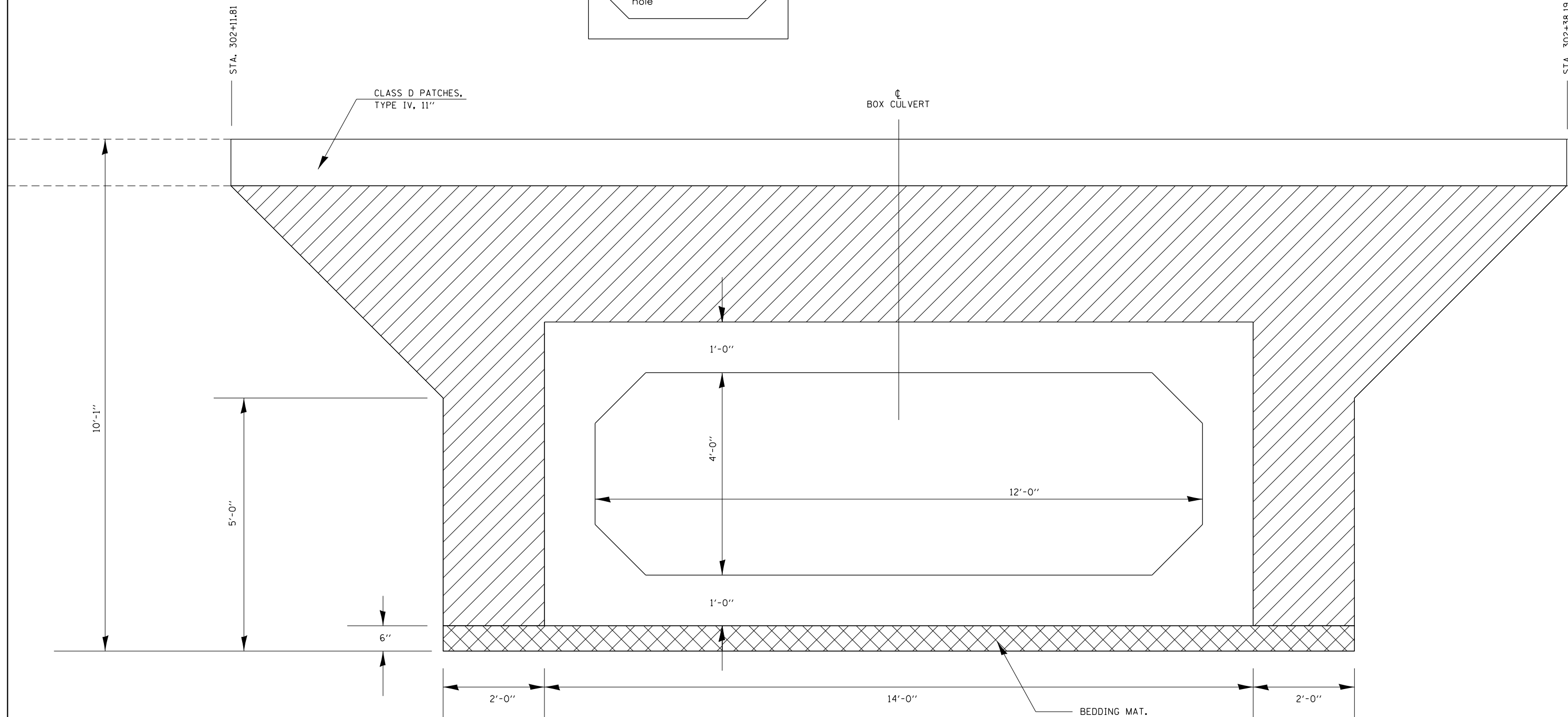
THE AREA TO BE EXCAVATED FOR THE PROPOSED BOX CULVERT SHALL NOT BE MEASURED FOR PAYMENT. THE COST OF THE EXCAVATION SHALL BE INCLUDED IN THE COST OF PRECAST CONCRETE BOX CULVERTS AND PRECAST CONCRETE BOX CULVERT END SECTIONS.



LEGEND	
	POROUS GRANULAR EMBANKMENT
	BOX CULVERT BEDDING (CA-7 OR CA-11)

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	107

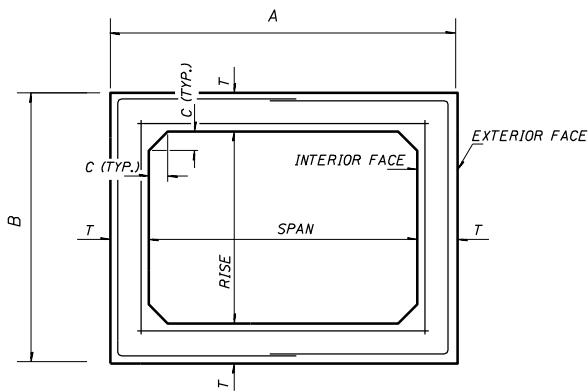


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# DETAIL OF PRECAST CONCRETE BOX CULVERT END SECTIONS

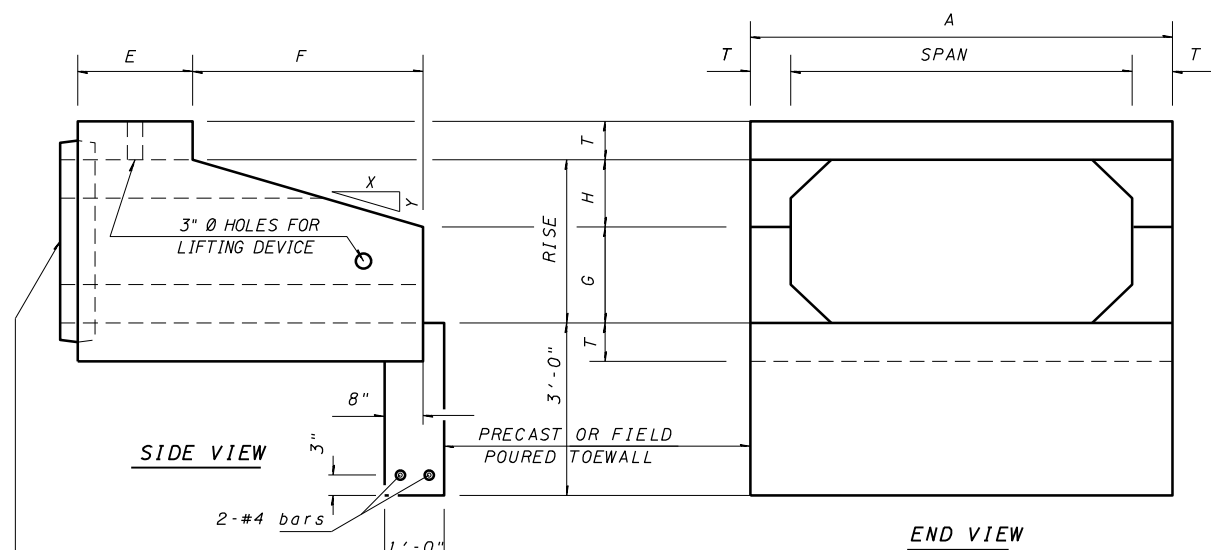
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DESIGN LOADING = HL-93



CROSS SECTION

CULVERT SIZE	DIMENSIONS									
	SPANxRISE (FOOT)	T	A	B	C	E	F	G	H	SLOPE
		INCH	FT-IN	FT-IN	INCH	FT-IN	FT-IN	FT-IN	FT-IN	Y:X
12x3	12	14-0	5-0	12	3-0	3-0	1-6	1-6	1-6	1:2
12x4	12	14-0	6-0	12	3-0	3-0	2-6	1-6	1-6	1:2

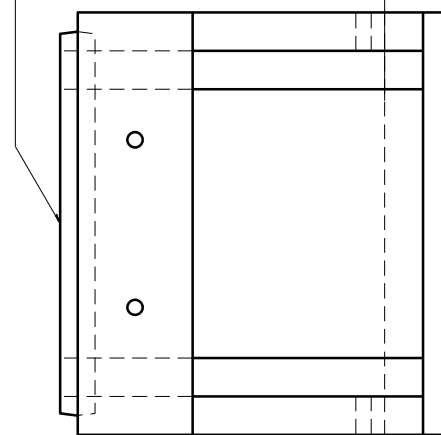
BOX CULVERT NO.1 AND NO.2 AND THE BOX CULVERT END SECTIONS SHALL BE DESIGNED TO MEET THE CRITERIA OF 0-10 FT OF COVER PER THE DESIGN TABLES OF ASTM C-1577



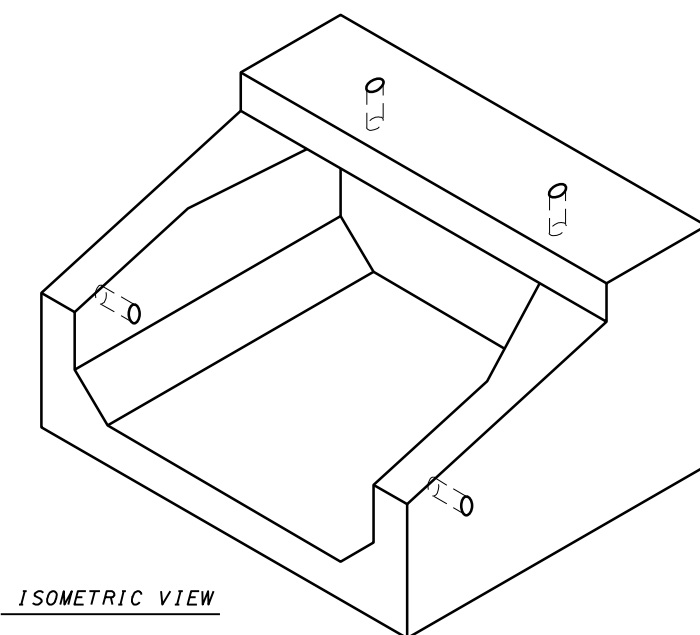
SIDE VIEW

END VIEW

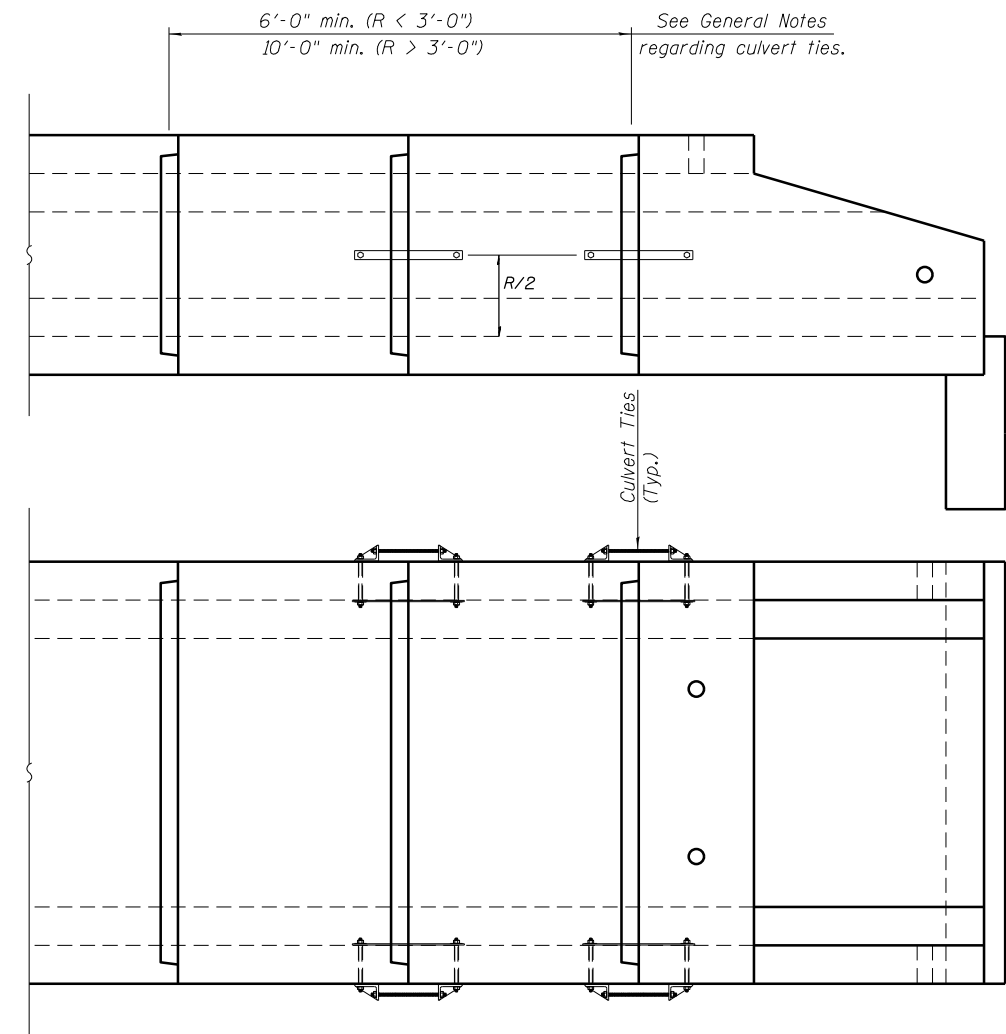
END CONNECTION TO FIT PRECAST BOX CULVERT (BELL OR SPIGOT MAY BE OMITTED WHEN COLLARING TO AN EXISTING BOX OR HEADWALL).



PLAN



ISOMETRIC VIEW



GENERAL NOTES

BOX CULVERT END SECTIONS SHALL BE CONSTRUCTED ACCORDING TO THE REQUIREMENTS OF SECTION 540 OF THE STANDARD SPECIFICATIONS EXCEPT AS MODIFIED HEREIN. END SECTIONS WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR BOX CULVERT END SECTIONS.

THE DIMENSIONS, MATERIALS, AND REINFORCEMENT DETAILS OF THE BOX CULVERT END SECTIONS SHALL BE ACCORDING TO THE REQUIREMENTS FOR ASTM C 1577, TRIMMED TO MEET THE GEOMETRIC REQUIREMENTS OF THE END SECTIONS.

THE NUMBER OF CULVERT TIES SHALL BE SUFFICIENT TO ENGAGE THE MINIMUM LENGTH OF CULVERT BARREL SHOWN WITHIN THE PAY LIMITS FOR PRECAST CONCRETE BOX CULVERTS AND WILL BE DEPENDENT UPON THE LENGTH OF BOX CULVERT SEGMENTS FURNISHED BY THE CONTRACTOR. CULVERT TIES ARE NOT REQUIRED FOR BOX CULVERTS HAVING A RISE (R) LESS THAN OR EQUAL TO 3 FT AND A SPAN (S) GREATER THAN OR EQUAL TO 10 FT.

ALL COSTS ASSOCIATED WITH FURNISHING AND INSTALLING OR CONSTRUCTING THE TOEWALL AND CULVERT TIES WILL NOT BE MEASURED FOR PAYMENT BUT SHALL BE INCLUDED IN THE UNIT PRICE FOR BOX CULVERT END SECTIONS OF THE CULVERT NUMBER SPECIFIED.

SHOP DRAWINGS THAT DETAIL THE LAYOUT FOR THE BOX CULVERT AND BOX CULVERT END SECTIONS SHALL BE PROVIDED TO THE ENGINEER FOR REVIEW AND APPROVAL.

REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF ASTM A 706 GR 60.

ONE DRAIN HOLE SHALL BE PROVIDED IN EACH WINGWALL FOR END SECTIONS OF BOX CULVERTS HAVING AN OPENING WITH A CLEAR RISE GREATER THAN 3 FT. THE DRAIN HOLE SHALL BE LOCATED WITHIN THE LOWER 1/3 OF THE CLEAR RISE OF THE BOX CULVERT AND SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 503.11 OF THE STANDARD SPECIFICATIONS.

LIFTING HOLES SHALL BE FILLED WITH CONCRETE PLUGS AND MASTIC AFTER THE END SECTIONS ARE IN PLACE.

THE JOINTS OF THE PRECAST BOX SECTIONS SHALL BE SEALED WITH ACCORDANCE WITH ARTICLE 542.04(d) OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

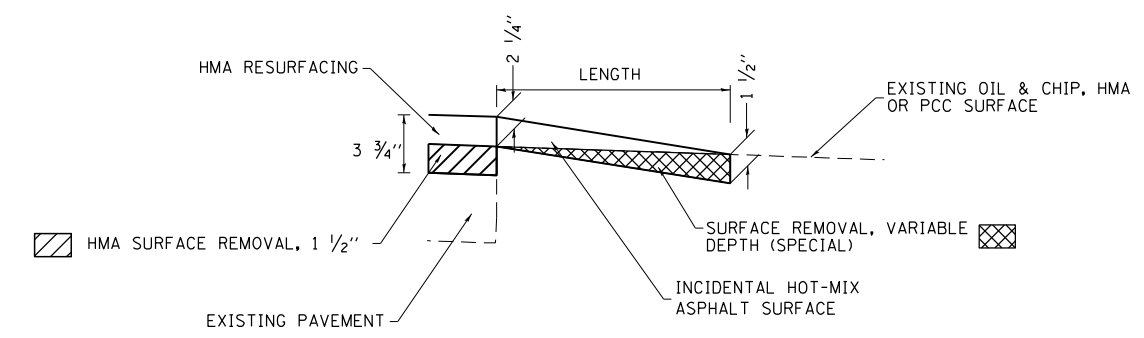
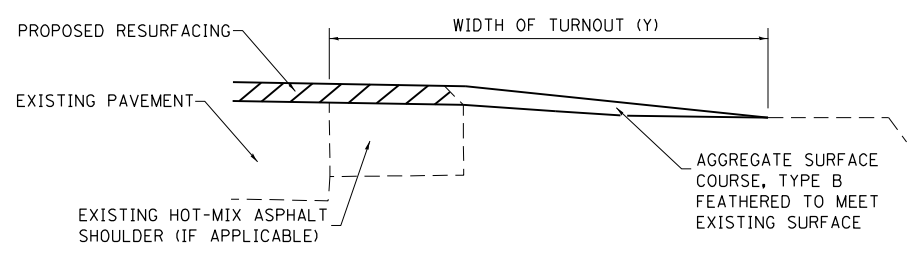
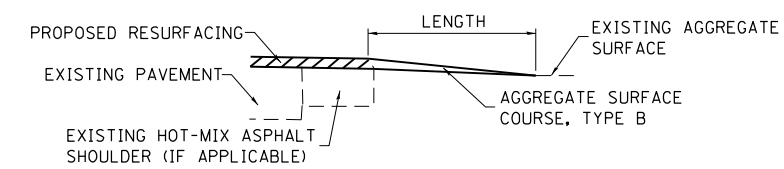
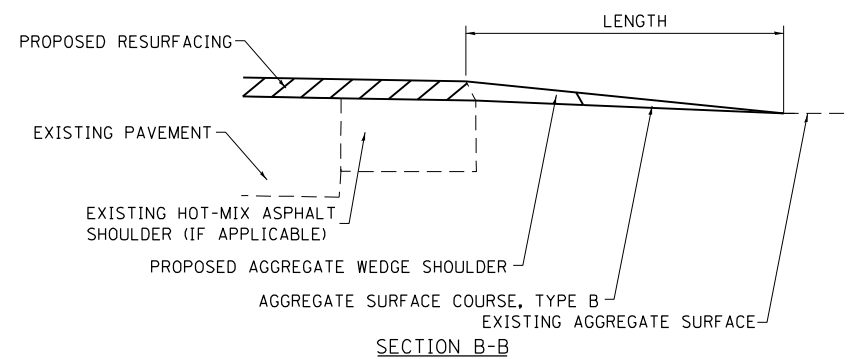
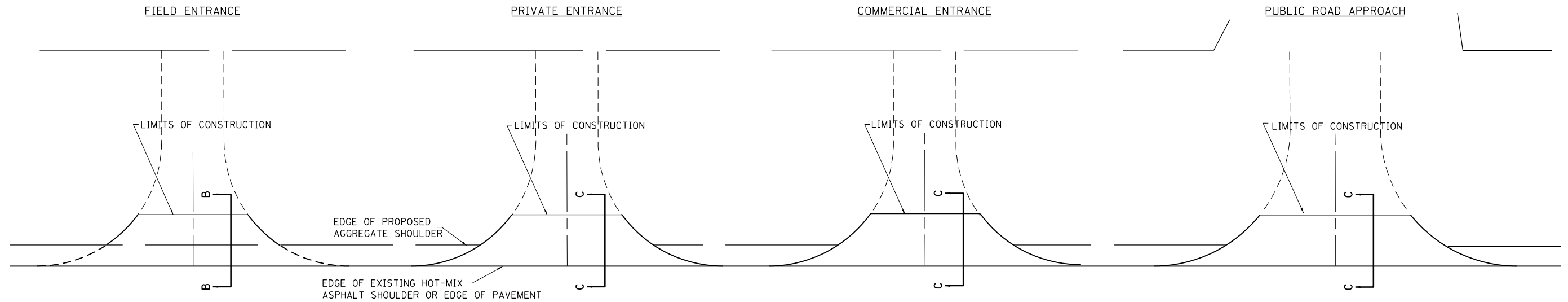
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PLOT DATE = 2/4/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

PRECAST BOX CULVERT END SECTIONS				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	29
CONTRACT NO. 74760				
ILLINOIS FED. AID PROJECT				



**TYPICAL SECTION AT MAILBOX TURNOUT**

NOTE: SEE STANDARD 406201 FOR MAILBOX TURNOUT DETAILS

**NOTES**

LENGTH = 10' UNLESS OTHERWISE NOTED ON PLANS

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

FOR FIELD ENTRANCES WITH HOT-MIX ASPHALT, USE SECTION C-C.

THE COST OF THE BITUMINOUS MATERIALS (TACK COAT) FOR ENTRANCES AND PUBLIC ROAD APPROACHES SHALL BE INCLUDED IN THE PAY ITEM INCIDENTAL HOT-MIX ASPHALT SURFACING.

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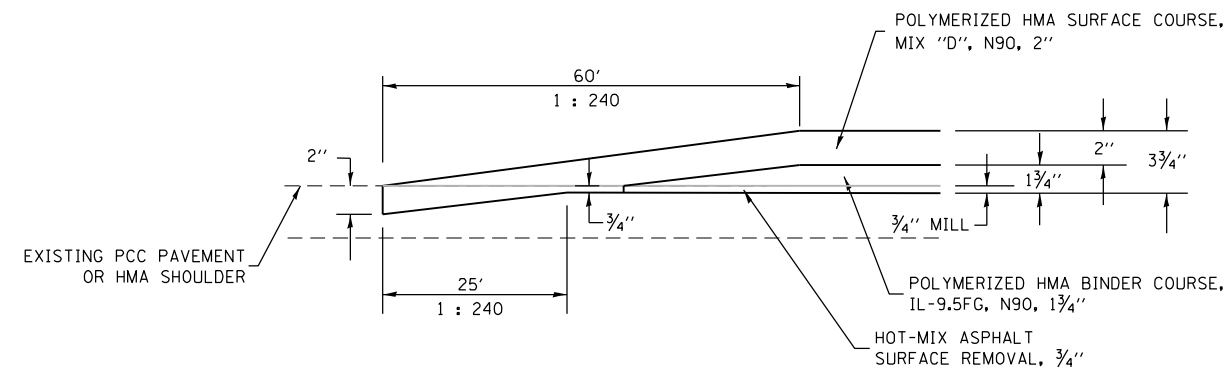
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PLOT DATE = 2/4/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

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

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 770	SECTION (114,115)RS-2	COUNTY SHELBY	TOTAL SHEETS 35	SHEET NO. 30
		CONTRACT NO. 74760		
		ILLINOIS FED. AID PROJECT		



**BUTT JOINT DETAIL**

- STA 34+60.00 TO STA 35+20.00
- STA 324+50.91 TO STA 325+10.91
- STA 327+39.17 TO STA 327+99.17
- STA 407+96.33 TO STA 408+56.33
- STA 408.93.84 TO STA 408+93.84
- STA 419+48.00 TO STA 420+08.00

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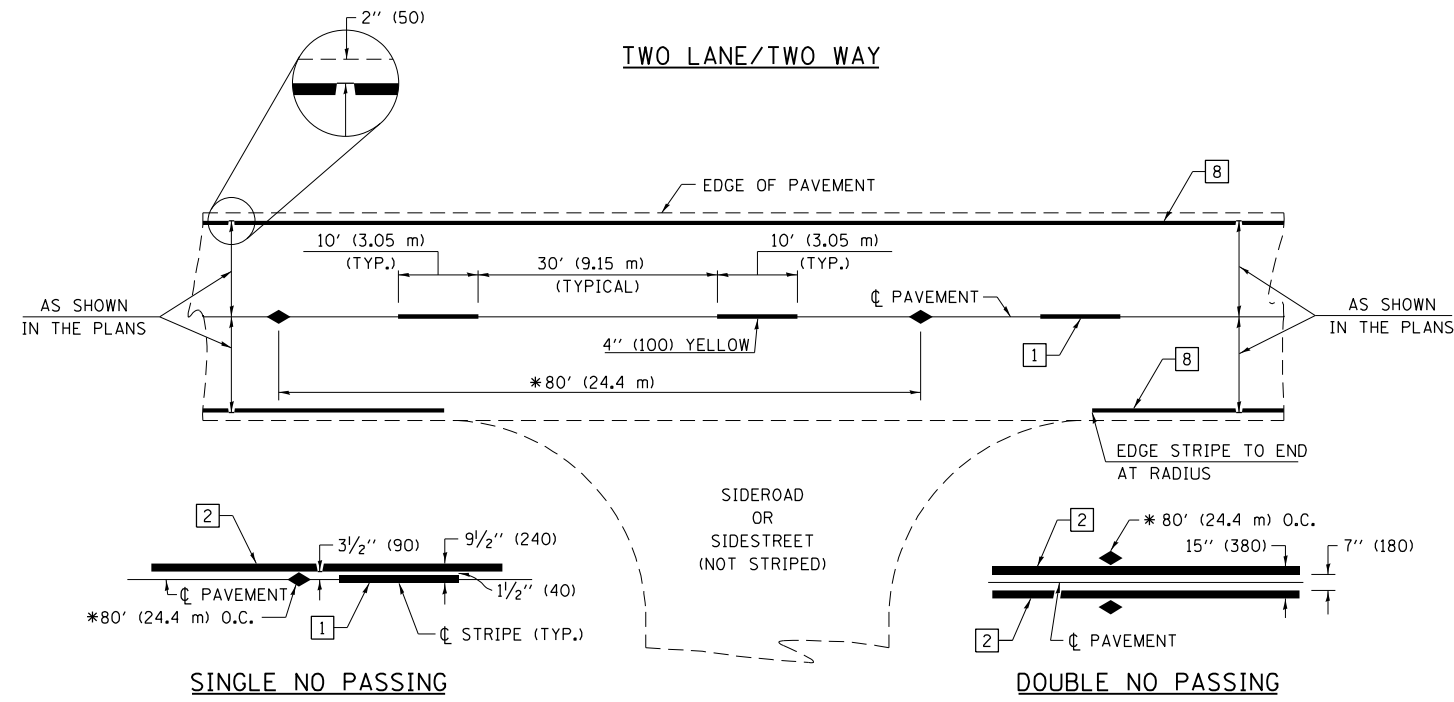
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	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 2/4/2021	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINTS & TRANSITION DETAIL**

SCALE: SHEET OF SHEETS STA. TO STA.

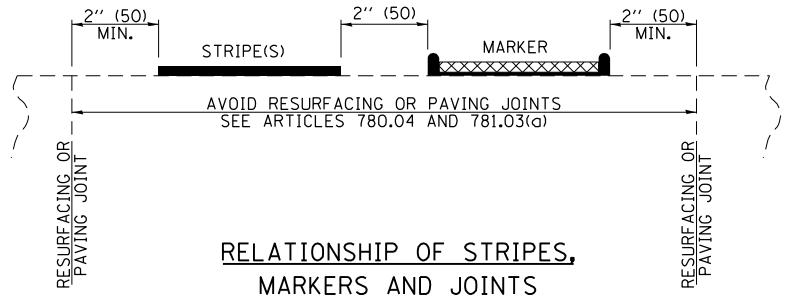
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	31
CONTRACT NO. 74760			ILLINOIS FED. AID PROJECT	



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

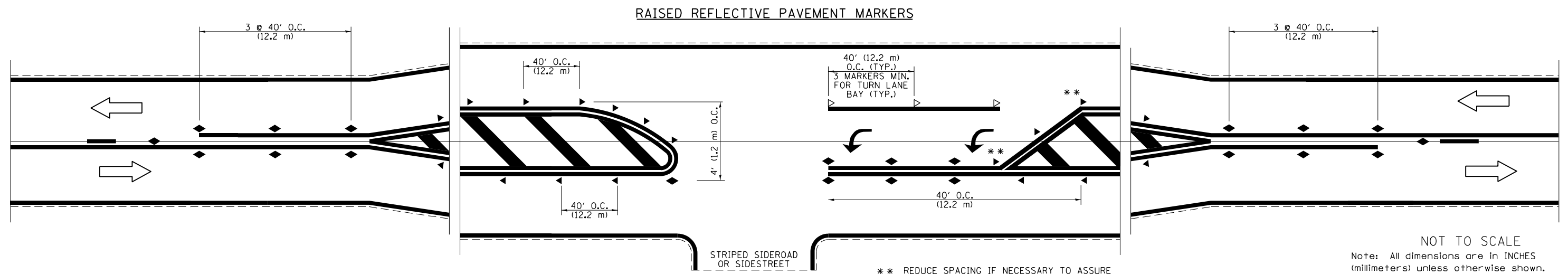
**PAVEMENT MARKING LEGEND**

- 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
- 

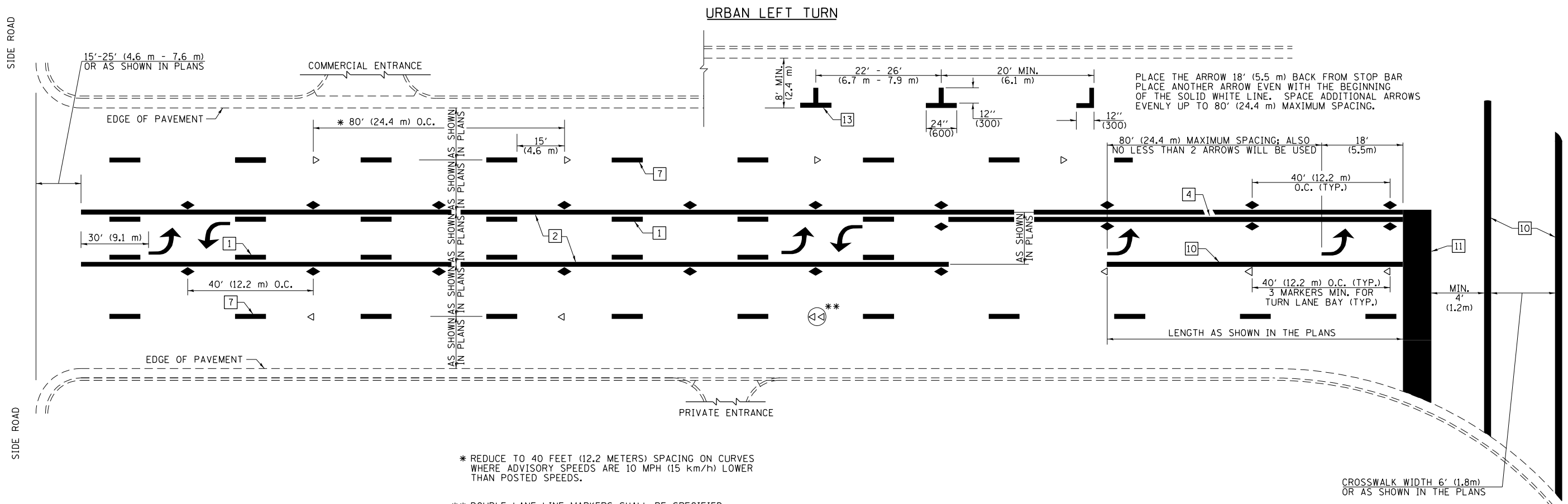


**TYPICAL PAVEMENT MARKERS LEGEND**

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



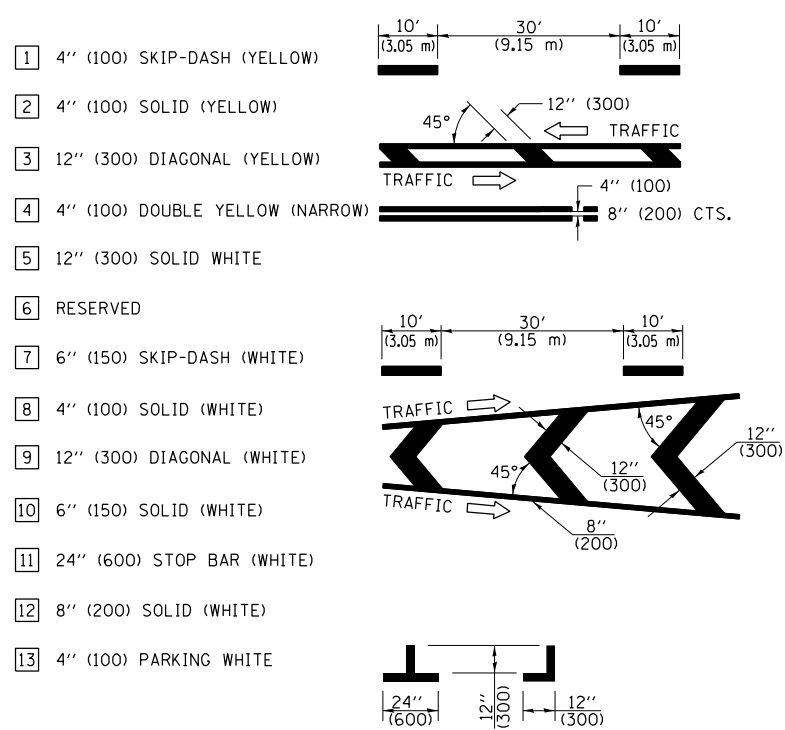
NOT TO SCALE  
Note: All dimensions are in INCHES (millimeters) unless otherwise shown.



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

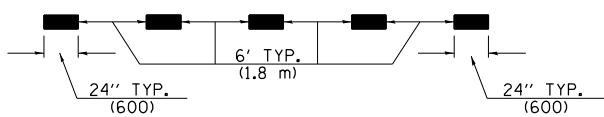
\*\* DOUBLE LANE LINE MARKERS SHALL BE SPECIFIED AND SPACED AS SHOWN IN HIGHWAY STANDARD 781001 FOR MULTI-LANE DIVIDED AND UNDIVIDED HIGHWAYS.

**PAVEMENT MARKING LEGEND**

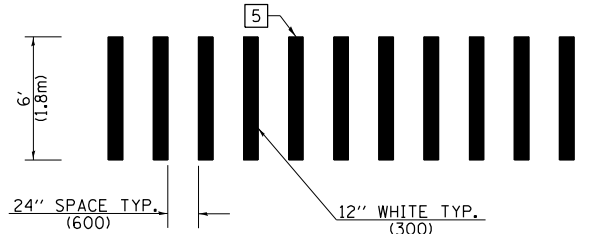


**GENERAL NOTES**

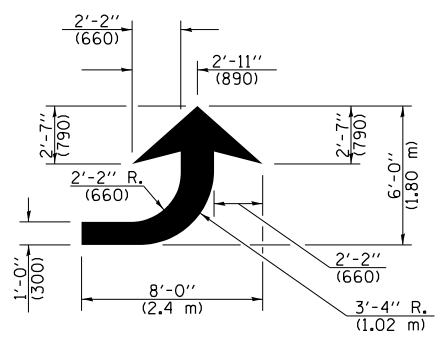
- TURN ARROW PAIRS SHALL BE PLACED AT 250' (75 m) INTERVALS AND SHALL BE EVENLY SPACED BETWEEN BOTH ENDS OF THE BIDIRECTIONAL LEFT TURN LANE. USE A MINIMUM OF TWO PAIRS PER BLOCK.
- THE SOLID YELLOW PAVEMENT MARKINGS [2] SHOULD GENERALLY START OR END NEAR THE RADIUS POINT OF EACH STREET RETURN EXCEPT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



**LANE LINE EXTENSIONS**

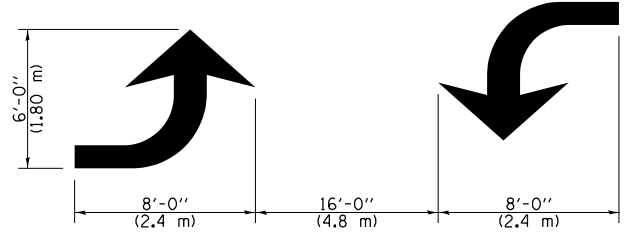


**CROSSWALK DETAIL (DECATUR CITY LIMITS ONLY)**



**LEFT ARROW**

REVERSE FOR RIGHT ARROW  
AREA = 15.6 SQ. FT. (1.47 m<sup>2</sup>)  
(WHITE)

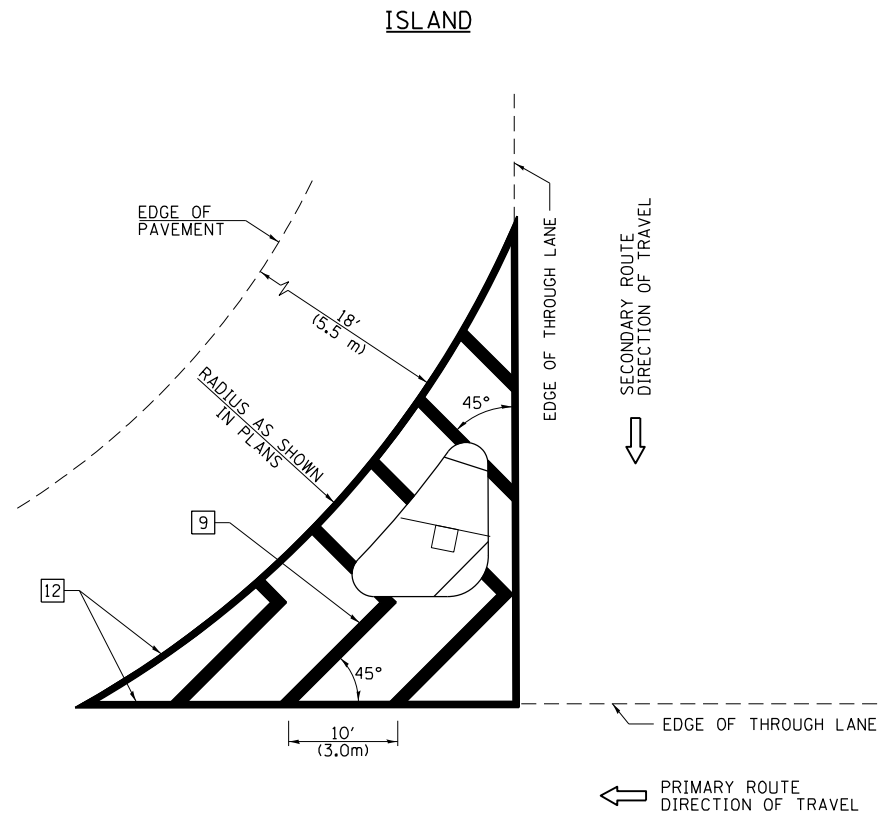


**TYPICAL DOUBLE TURN ARROWS (WHITE)**

NOT TO SCALE

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

FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL &amp; URBAN APPLICATIONS)</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PWIDOT\Documents\IDOT Offices\District 7\Projects\74760\DRAWN\CADsheets\0774760-shd-district s	DESIGNED -	REVISED -	770			(114,115)RS-2	SHELBY	35	33	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	CONTRACT NO. 74760							
PLOT DATE = 2/4/2021	DATE -	REVISED -	ILLINOIS FED. AID PROJECT							



**GENERAL NOTES**

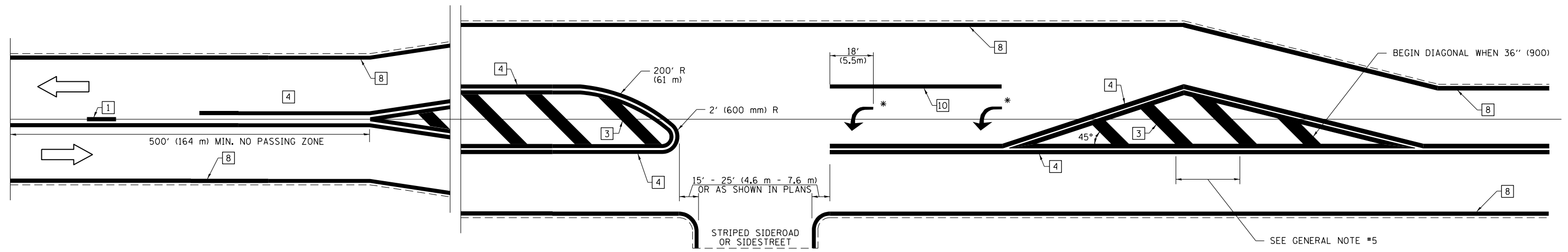
1. RAISED AND CORRUGATED MEDIANS SHALL BE OUTLINED WITH [2] IF PRESENT.
2. SOME OF THE INFORMATION INCLUDED WITH THIS DETAIL MAY NOT BE APPLICABLE TO THIS IMPROVEMENT.
3. PAVEMENT MARKINGS ARE TO BE EXTENDED THROUGH OMISSIONS WHEN APPLICABLE.
4. FINAL PAVEMENT MARKINGS SHALL BE IN PLACE PRIOR TO PLACING 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**

- [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
- 

**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. 78000001**

FILE NAME =	USER NAME = steffenmk	DESIGNED -	REVISED -
pw:\plnroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 7\Projects\74760\DRAWN\CADsheets\0774760-shr-district 7		REVISOR -	REVISOR -
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISOR -
	PLOT DATE = 2/4/2021	DATE -	REVISOR -

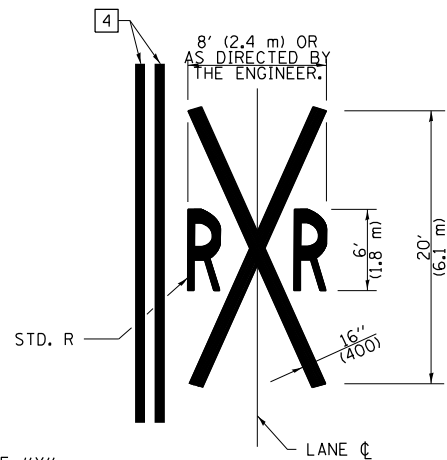
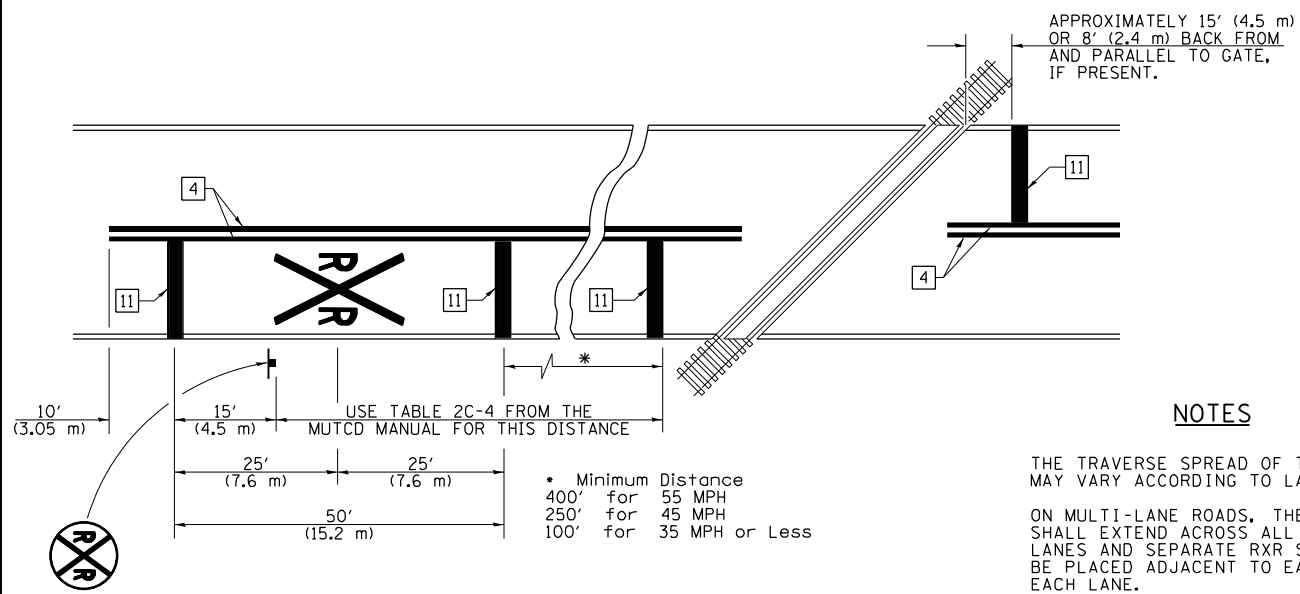
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
770	(114,115)RS-2	SHELBY	35	34
CONTRACT NO. 74760				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING



NOTES

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

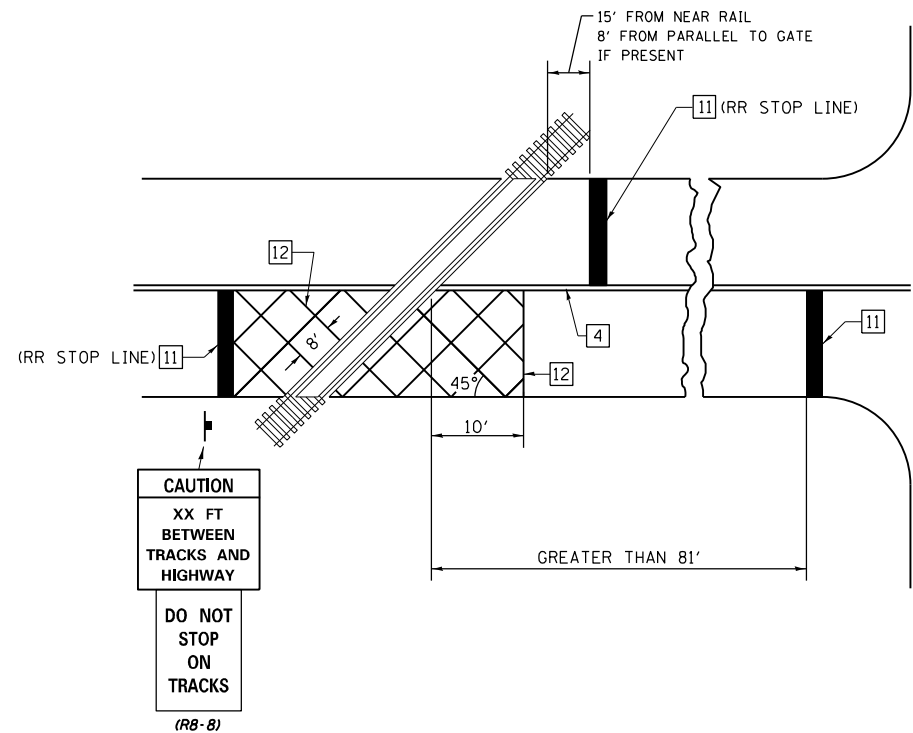
ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.

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.

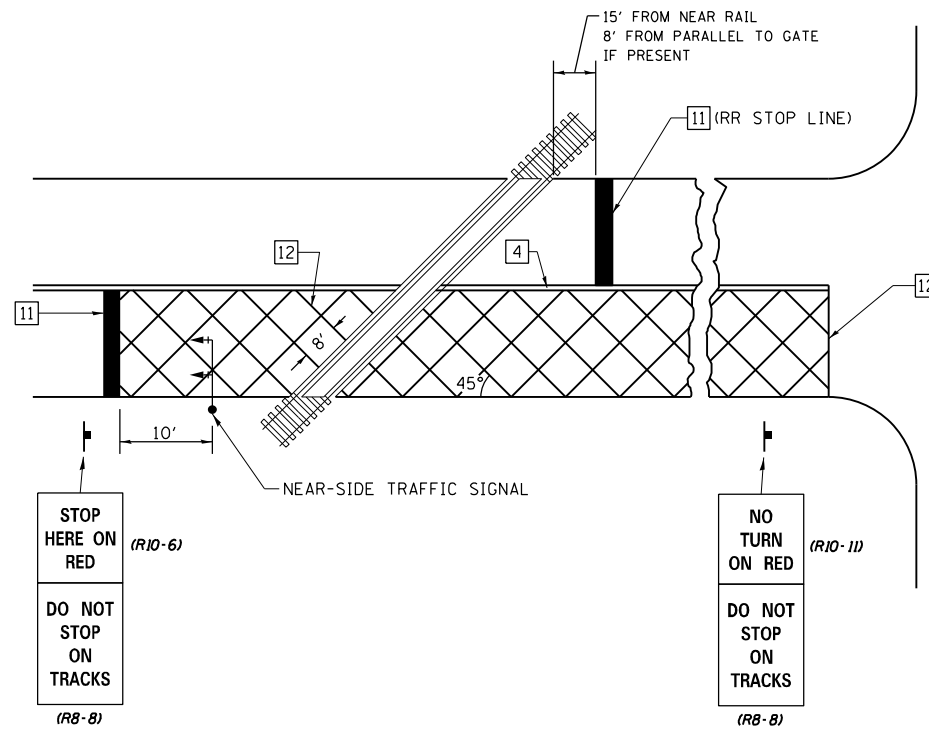
PAVEMENT MARKING LEGEND

- 1 4" (100) SKIP-DASH (YELLOW)
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- 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

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- 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. 78000001

FILE NAME =	USER NAME = steffenk	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>PAVEMENT MARKING AND RAISED REFLECTIVE PAVEMENT MARKERS (RURAL &amp; URBAN APPLICATIONS)</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\planroom.dot.illinois.gov\PIDOT\Documents\IDOT Offices\District 7\Projects\74760\DRAWN\CAD\sheet\0774760-shr-district sheet	PLLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			770	(114,115)RS-2	SHELBY	35	35
	PLLOT DATE = 2/4/2021	DATE -	REVISED -			CONTRACT NO. 74760				

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

ILLINOIS FED. AID PROJECT