

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

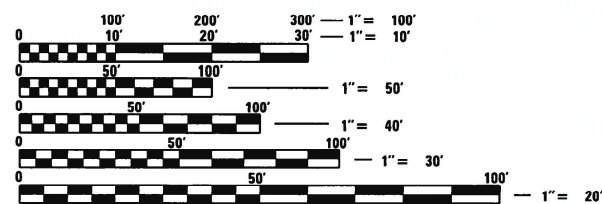
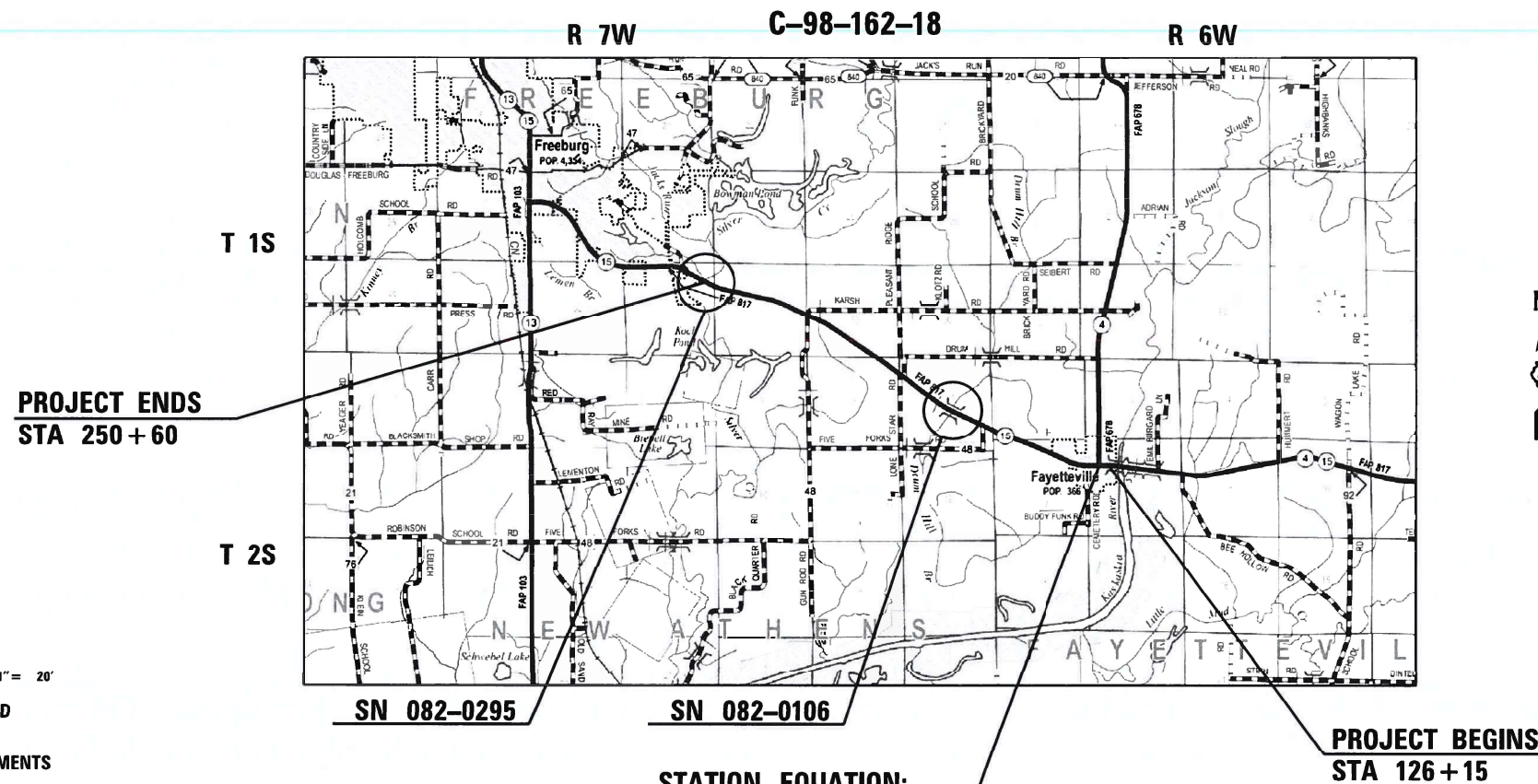
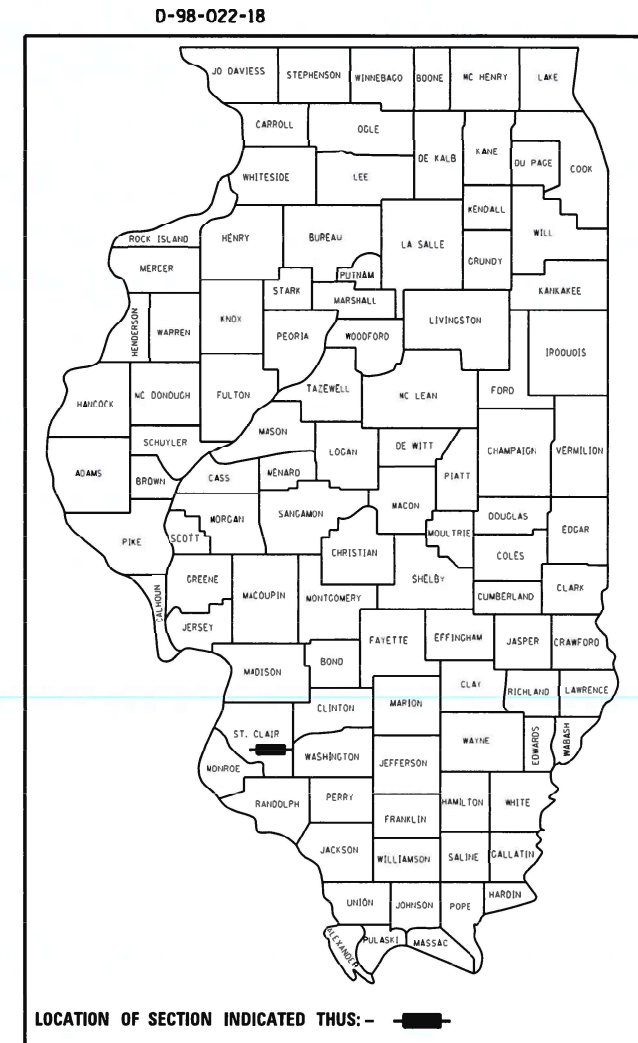
**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 817 (IL 15)
SECTION 50 RS-4
PROJECT STP-UEM3(116)
RESURFACING – DESIGNED OVERLAY
ST. CLAIR COUNTY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT = 2600 (2017)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50 RS-4	ST. CLAIR	37	1
		ILLINOIS	CONTRACT NO. 76L14	



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 EXCAVATION
1-800-892-0123
OR 811

STATION EQUATION:
STA 118 + 65.35 EAST =
STA 0 + 00 WEST

GROSS LENGTH = 25,836 FT. = 4.89 MILES
NET LENGTH = 25,836 FT. = 4.89 MILES

PROJECT ENGINEER: HERVE GELIN (618)-346-3179
PROJECT MANAGER: MICHAEL BERG (618)-346-3411

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
DECATUR (217) 422-8544
CHICAGO (773) 714-0150
ROCKFORD (815) 489-0050
184-001397



Jeremy Buening
JEREMY BUENING, P.E., S.E. DATE 3/12/2021
EXPIRES 11/30/2021

CONTRACT NO. 76L14

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 19 20 21
Kathleen Roberts REGIONAL ENGINEER

May 7, 2021 [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

May 7, 2021 [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

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HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF INCH AND OF A FOOT
424001-11	PERPENDICULAR CURB RAMPS
424006-05	DIAGONAL CURB RAMPS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
442101-09	CLASS B PATCHES
482011-03	HMA SHLD. STRIPS/SHLDS, WITH RESURFACING ON WIDENING AND RESURFACING PROJECTS
606001-07	CONCRETE CURB TYPE B & COMBINATION CONCRETE CURB AND GUTTER
630001-12	STEEL PLATE BEAM GUARDRAIL
630101-10	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5M) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W DAY ONLY, FOR SPEEDS ≥ 45 MPH
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
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701336-07	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS ≥ 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

REV. - MS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS AND STANDARDS
FAP 817 (IL 15)**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50R5-4	ST. CLAIR	37	2
CONTRACT NO. 76L14				
ILLINOIS FED. AID PROJECT				

GENERAL NOTES

1. ALL ELEVATIONS ARE BASED ON NAVD 88 DATUM. THE PROPOSED GRADE ELEVATIONS SHOWN ON THE PLANS ARE THE ELEVATIONS FOR THE FINISHED SURFACE AT THE LOCATIONS INDICATED.

2. LOCATION OF EXISTING UTILITIES HAVE NOT BEEN LOCATED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THEIR EXACT LOCATIONS FROM THE UTILITY COMPANY AND BY FIELD INSPECTION. THE CONTRACTOR IS REQUIRED TO CONTACT J.U.L.I.E. AT 1-800-892-0123 PRIOR TO PROCEEDING WITH ANY EXCAVATION AND WORK ON THE PROJECT.

3. ACCESS TO ALL ENTRANCES AND SIDE ROADS SHALL BE MAINTAINED AT ALL TIMES.

4. THE ILLINOIS DEPARTMENT OF TRANSPORTATION STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G. MATH FOR TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

5. IF THE PROPOSED SURFACE REMOVAL ON THIS PROJECT PRODUCES A MILLED EDGE NEAR CENTERLINE GREATER THAN 1.5 INCHES OR IF THE PROPOSED RESURFACING RESULTS IN AN ELEVATION DIFFERENCE GREATER THAN 2 INCHES NEAR THE CENTERLINE BETWEEN ADJACENT OPEN LANES OF TRAFFIC, ONE OF THE FOLLOWING SHALL APPLY:
 - THE CONTRACTOR SHALL ORGANIZE THE WORK TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.
 - THE CONTRACTOR SHALL CONSTRUCT A TEMPORARY HOT MIX ASPHALT WEDGE ALONG THE CENTERLINE TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.
 - THE CONTRACTOR SHALL CONSTRUCT A MILLED SLOPE EDGE (MINIMUM 1:3) ALONG THE CENTERLINE TO AVOID THE ELEVATION DIFFERENCES MENTIONED ABOVE.

THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST PER SQUARE YARD FOR HOT-MIX ASPHALT SURFACE REMOVAL OF THE DEPTH SPECIFIED IN THE COST PER TON FOR THE HOT-MIX ASPHALT RESURFACING MIXES SPECIFIED IN THE PLANS.

6. THE CONTRACTOR SHALL ORGANIZE THE WORK ON THIS PROJECT TO AVOID A DROP OFF BETWEEN ADJACENT OPEN LANES OF TRAFFIC GREATER THAN 2 INCHES.

7. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN, AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN, AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.

8. THE CONTRACTOR SHALL MILL THROUGH THE CONCRETE PATCHES IN ACCORDANCE WITH SECTION 440 OF THE SSRB. THIS WORK WILL BE INCLUDED IN THE COST FOR HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4".

9. THE PAY ITEM TEMPORARY RAMP HAS BEEN INCLUDED FOR THE CONSTRUCTION OF TEMPORARY RAMPS IN ACCORDANCE WITH ARTICLE 406.08 OF THE SSRB. THE COST SHALL INCLUDE BOTH THE INSTALLATION AND THE REMOVAL OF THE TEMPORARY RAMPS.

10. 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 THE SAME DEPTH AS THE HOT-MIX ASPHALT SURFACE REMOVAL. THIS WORK WILL BE CONSIDERED INCLUDED IN THE COST OF THE CONTRACT ITEMS INVOLVED AND NO EXTRA COMPENSATION WILL BE ALLOWED.

11. THE USE OF VIBRATORY ROLLERS IS PROHIBITED WITHIN THE CITY LIMITS OF FAYETTEVILLE. THIS DOES NOT RELIEVE THE CONTRACTOR OF DENSITY REQUIREMENTS FOR THE CONSTRUCTION OF THE BITUMINOUS PAVEMENTS AS SPECIFIED IN SECTIONS 406 & 407 OF THE STANDARD SPECIFICATIONS.

12. MTD CAN OPERATE IN AN UNLOADED CONDITION ON SN 082-0106 AND 082-0295

13. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

MIXTURE USE:	SURFACE COURSE	BINDER COURSE	SHOULDERS (lower)	SHOULDERS (surface)
AC/PG:	PG 64-22	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	SEE SPECIAL PROVISIONS	SEE SPECIAL PROVISIONS	SEE SPECIAL PROVISIONS	SEE SPECIAL PROVISIONS
DESIGN AIR VOIDS:	4.0% @ Ndes=70	4.0% @ Ndes=70	4.0% @ Ndes=30	4.0% @ Ndes=30
MIXTURE COMPOSITION:	IL-9.5	IL-19.0	IL 19.0L	IL 9.5L
FRICTION AGGREGATE:	MIXTURE "C"	MIXTURE "B"		
QUALITY MANAGEMENT PROGRAM:	QCP	QCP	QC/QA	QC/QA

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LBS/SQ YD/INCH

COMMITMENTS

NONE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
FAP 817 (IL 15)**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50RS-4	ST. CLAIR	37	3
CONTRACT NO. 76L14			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	BRIDGE	BRIDGE
				0005	0059 082-0106	0047 082-0295
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	52862	52543		319
40600990	TEMPORARY RAMP	SO YD	75	75		
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	8663	8650	13	
40603592	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, N70	TON	109		9	100
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	5767	5767		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	287	287		
42400800	DETECTABLE WARNINGS	SO FT	36	36		
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SO YD	73343	73246	97	
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	82	82		
44000600	SIDEWALK REMOVAL	SO FT	385	385		
44201043	CLASS B PATCHES, TYPE II, 16 INCH	SO YD	56	56		
44201047	CLASS B PATCHES, TYPE III, 16 INCH	SO YD	33.8	33.8		
44201048	CLASS B PATCHES, TYPE IV, 16 INCH	SO YD	66.7	66.7		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	955	955		

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
FAP 817 (IL 15)**

SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50R5-4	ST. CLAIR	37	4
			CONTRACT NO. 76L14	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	BRIDGE	BRIDGE
				0005	0059 082-0106	0047 082-0295
48203100	HOT-MIX ASPHALT SHOULDERS	TON	1930	1930		
50102400	CONCRETE REMOVAL	CU YD	17.1			17.1
50300255	CONCRETE SUPERSTRUCTURE	CU YD	19.2			19.2
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	2430			2430
50800515	BAR SPLICERS	EACH	32			32
52000110	PREFORMED JOINT STRIP SEAL	FOOT	95.5			95.5
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	1417			1417
60604400	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18	FOOT	37	37		
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	150	150		
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	75	75		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4		
63200310	GUARDRAIL REMOVAL	FOOT	344	344		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6		
67100100	MOBILIZATION	L SUM	1	1		

* SPECIALTY ITEM

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
 FAP 817 (IL 15)**

SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50R5-4	ST. CLAIR	37	5
			CONTRACT NO. 76L14	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	BRIDGE	BRIDGE
				0005	0059 082-0106	0047 082-0295
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1			1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1		1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1		
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	1		
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	40			40
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1			1
70106700	TEMPORARY RUMBLE STRIPS	EACH	12			12
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	60	60		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	21060	21060		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	7020	7020		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	70677	70677		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1350			1350

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
FAP 817 (IL 15)**

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50R5-4	ST. CLAIR	37	6
			CONTRACT NO. 76L14	
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	BRIDGE	BRIDGE
				0005	0059 082-0106	0047 082-0295
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	25	25		
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	2980			2980
70300924	PAVEMENT MARKING TAPE, TYPE IV 24"	FOOT	48			48
70400100	TEMPORARY CONCRETE BARRIER	FOOT	675			675
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	675			675
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2			2
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2			2
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	70677	70677		
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	25	25		
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	325	325		
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8		
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	112			112
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	325	325		

* SPECIALTY ITEM

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 FAP 817 (IL 15)

SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50R5-4	ST. CLAIR	37	7
				CONTRACT NO. 76L14
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY	BRIDGE	BRIDGE
				0005	0059 082-0106	0047 082-0295
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	23613	23613		
X2010505	CLEARING, SPECIAL	L SUM	1			1
X5870015	BRIDGE DECK CONCRETE SEALER	SQ FT	3339		292	3047
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	23613	23613		
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1		
Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	151.1		1.1	150
Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	200			200
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	26192	25837		355
Z0034105	MATERIAL TRANSFER DEVICE	TON	14539	14417	22	100
∅ Z0076600	TRAINEES	HOUR	1500	1500		
∅ Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	1500	1500		

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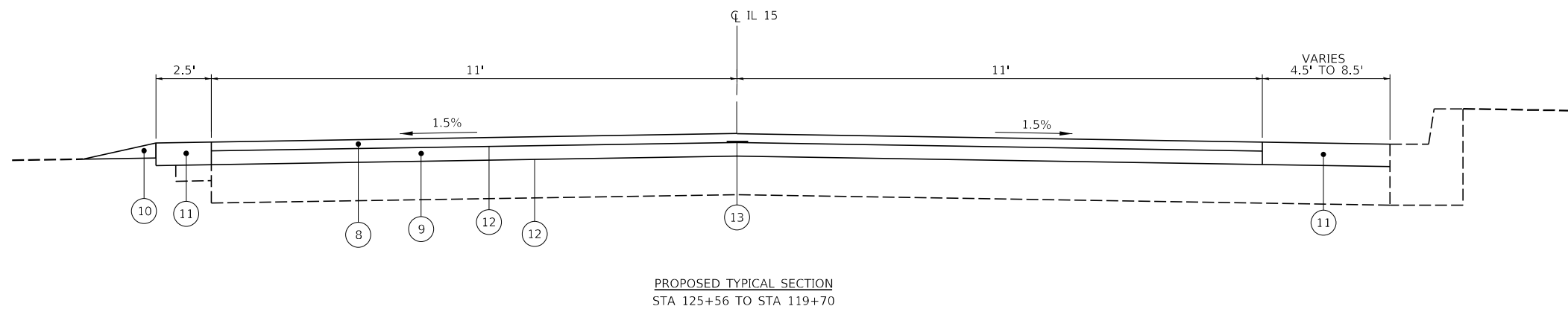
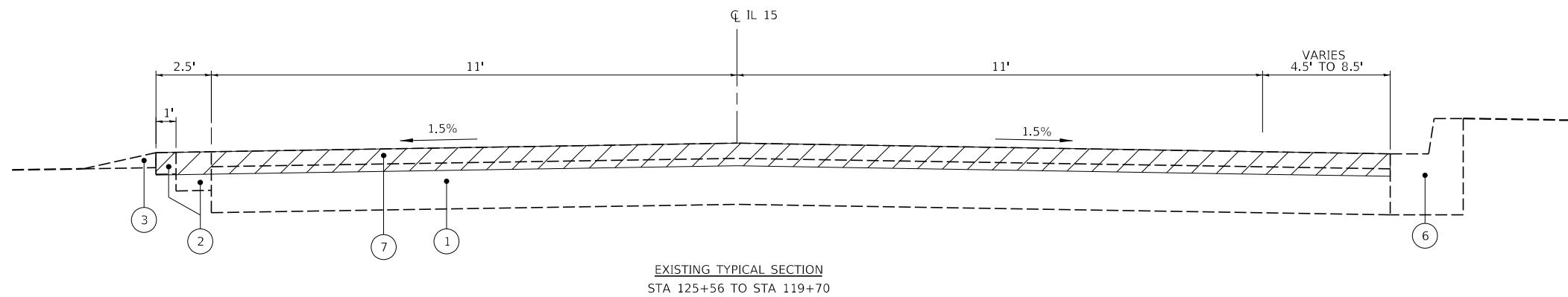
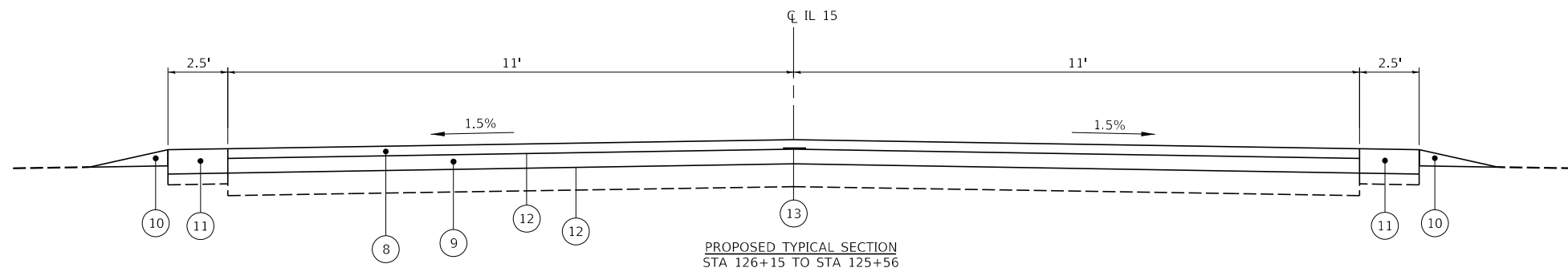
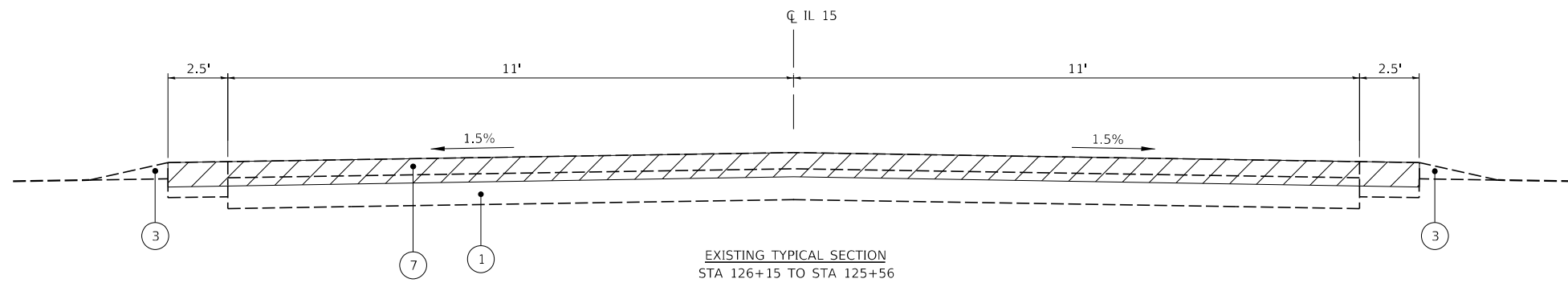
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
FAP 817 (IL 15)**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50R5-4	ST. CLAIR	37	8
				CONTRACT NO. 76L14
ILLINOIS FED. AID PROJECT				

REV. - MS



EXISTING LEGEND

- ① PAVEMENT (VARIABLE THICKNESS)
- ② BITUMINOUS SHOULDER
- ③ AGGREGATE SHOULDER, TYPE B
- ④ 9" P.C.C. PAVEMENT
- ⑤ EXISTING PAVEMENT (9"-6"-9")
- ⑥ CURB AND GUTTER
- ⑦ VARIABLE RESURFACING, 5" TO 6"

PROPOSED LEGEND

- ⑧ HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1½"
- ⑨ HMA BINDER COURSE, IL-19.0, N70, 2¾"
- ⑩ AGGREGATE WEDGE SHOULDER, TYPE B
- ⑪ HMA SHOULDER, 3¾"
- ⑫ HMA (TACK COAT)
- ⑬ LONGITUDINAL JOINT SEALANT

3.75" MILLING

MODEL: D:\p1\817\817001\7102_D8_Vst_VstW06 - IL15_3P_Overlay\CADD\CADD - Civil\Sheets\817001\7102-817-Typical.dgn



USER NAME = jboering
 PLOT SCALE = 2,000' / in.
 PLOT DATE = 3/15/2021

DESIGNED - JKP
 DRAWN - DMW
 CHECKED - JMB
 DATE - 03/12/21

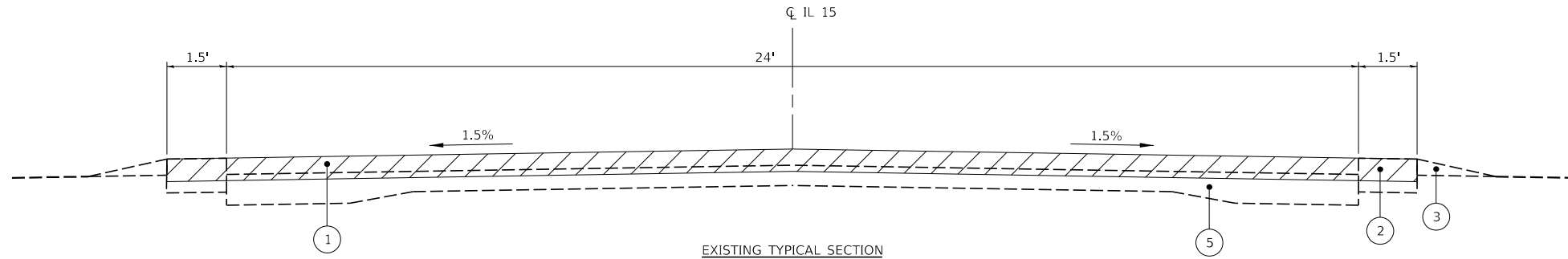
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

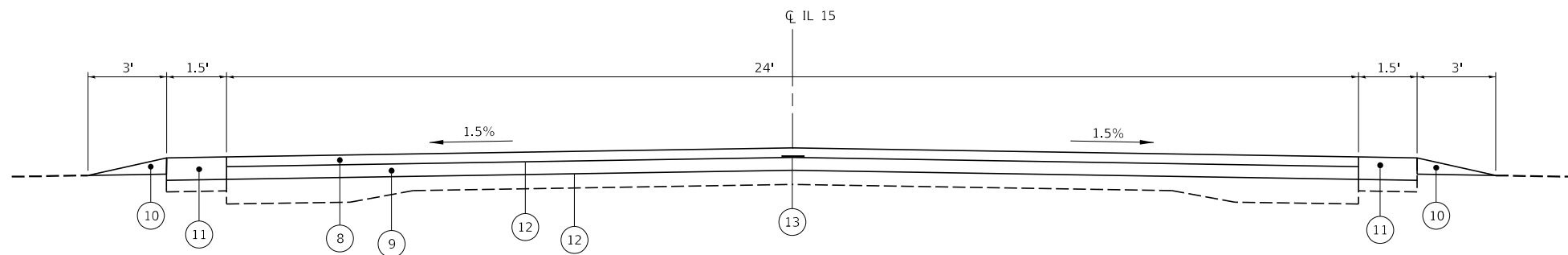
TYPICAL SECTIONS
 FAP 817 (IL 15)

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

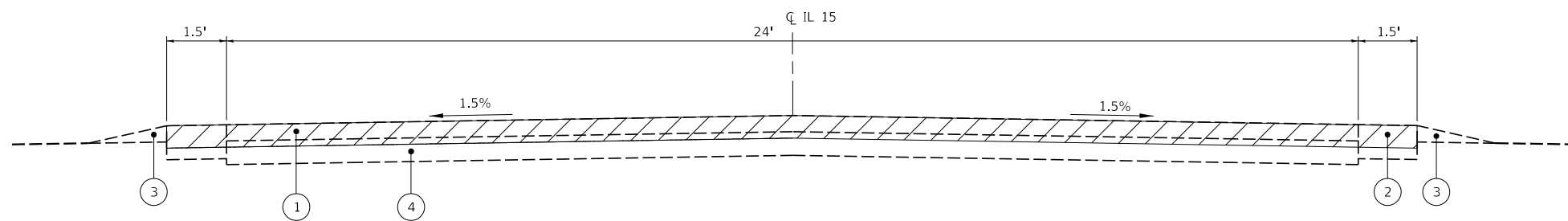
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50R5-4	ST. CLAIR	37	9
CONTRACT NO. 76L14			ILLINOIS FED. AID PROJECT	



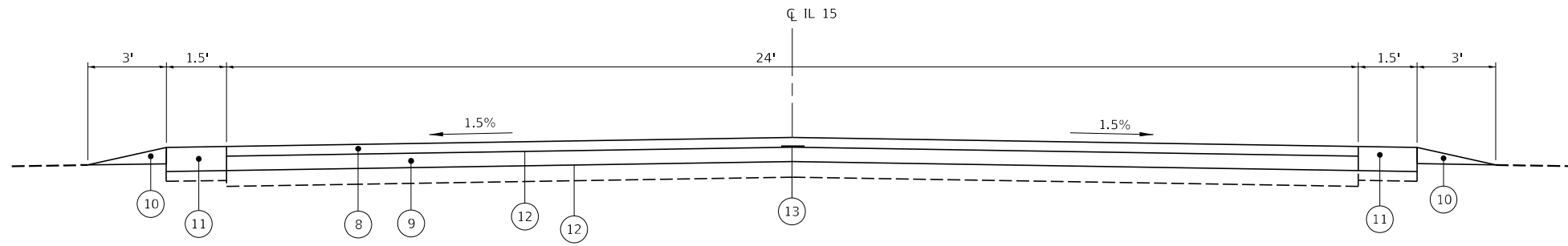
EXISTING TYPICAL SECTION
STA 119+70 TO STA 83+22
STA 93+26 TO STA 238+98



PROPOSED TYPICAL SECTION
STA 119+70 TO STA 83+22
STA 93+26 TO STA 238+98



EXISTING TYPICAL SECTION
STA 83+22 TO STA 93+26
STA 238+98 TO STA 250+60



PROPOSED TYPICAL SECTION
STA 83+22 TO STA 93+26
STA 238+98 TO STA 250+60

- EXISTING LEGEND**
- ① PAVEMENT (VARIABLE THICKNESS)
 - ② BITUMINOUS SHOULDER
 - ③ AGGREGATE SHOULDER, TYPE B
 - ④ 9" P.C.C. PAVEMENT
 - ⑤ EXISTING PAVEMENT (9"-6"-9")
 - ⑥ CURB AND GUTTER
 - ⑦ VARIABLE RESURFACING, 5" TO 6"

- PROPOSED LEGEND**
- ⑧ HMA SURFACE COURSE, IL-9.5, MIX "D", N70, 1½"
 - ⑨ HMA BINDER COURSE, IL-19.0, N70, 2¾"
 - ⑩ AGGREGATE WEDGE SHOULDER, TYPE B
 - ⑪ HMA SHOULDER, 3¾"
 - ⑫ HMA (TACK COAT)
 - ⑬ LONGITUDINAL JOINT SEALANT

3.75" MILLING

MODEL: D:\p1\11 CHASTAIN & ASSOCIATES, INC. \PROJECTS\817\TYPICAL\TYPICAL.dwg



USER NAME = jboering	DESIGNED - JKP	REVISED -
DRAWN - DMW	REVISOR -	
PLOT SCALE = 2,000' / in.	CHECKED - JMB	REVISOR -
PLOT DATE = 3/15/2021	DATE - 03/12/21	REVISOR -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
FAP 817 (IL 15)**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50R5-4	ST. CLAIR	37	10
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76L14	

PAVING SCHEDULE

LOCATION		LENGTH	WIDTH	HMA SURFACE REMOVAL 3 3/4"	BITUMINOUS MATERIALS (TACK COAT) 2 APPLICATIONS	HMA BINDER COURSE, IL-19, N70	HMA SURFACE COURSE, IL-9.5, MIX C, N70	LONGITUDINAL JOINT SEALANT	
STATION	TO	STATION	(FT)	(FT)	(SQ YD)	(POUND)	(TON)	(TON)	(FT)
126+15.00	TO	118+65.40	749.6	22	1832	1237	231	154	750
0+00.00	TO	0+36.80	36.8	22	90	61	11	8	37
0+36.80	TO	20+00.00	1963.2	24	5235	3534	660	440	1963
20+00.00	TO	50+00.00	3000	24	8000	5400	1008	672	3000
50+00.00	TO	80+00.00	3000	24	8000	5400	1008	672	3000
0+36.80	TO	110+00.00	3000	24	8000	5400	1008	672	3000
110+00.00	TO	140+00.00	3000	24	8000	5400	1008	672	3000
140+00.00	TO	170+00.00	3000	24	8000	5400	1008	672	3000
170+00.00	TO	200+00.00	3000	24	8000	5400	1008	672	3000
200+00.00	TO	230+00.00	3000	24	8000	5400	1008	672	3000
230+00.00	TO	250+60.00	2060	24	5494	3708	692	461	2060
PROJECT TOTAL					68,651	46,340	8,650	5,767	25,810

PAVEMENT PATCHING SCHEDULE

LOCATION		LENGTH	WIDTH	CLASS B PATCHES TYPE II, 16"	CLASS B PATCHES TYPE III, 16"	CLASS B PATCHES TYPE IV, 16"
STATION	LT/RT	(FT)	(FT)	(SQ YD)	(SQ YD)	(SQ YD)
22+54.00	LT	12	6	8		
22+69.00	LT	12	6	8		
44+54.00	LT	12	6	8		
67+54.00	RT	12	6	8		
104+54.00	RT	12	6	8		
104+54.00	LT	12	6	8		
153+40.00	RT	12	12		16	
155+54.00	RT	40	4		17.8	
174+25.00	RT	12	6	8		
250+05.00	LT	100	6			66.7
PROJECT TOTAL				56	33.8	66.7

SHOULDER SCHEDULE

LOCATION			AGGREGATE WEDGE SHOULDERS, TYPE B	HMA SURFACE REMOVAL 3 3/4"	BITUMINOUS MATERIALS (TACK COAT) 2 APPLICATIONS	HOT-MIX ASPHALT SHOULDERS	
STATION	TO	STATION	LT/RT	(TON)	(SQ YD)	(POUND)	(TON)
126+15.00	TO	125+88.70	RT		3	4	1
126+15.00	TO	125+56.00	RT	1			
126+15.00	TO	118+65.00	LT	14	104	139	45
125+88.00	TO	123+09.00	RT		101	136	42
123+09.00	TO	118+65.40	RT		210	283	88
0+00.00	TO	0+36.80	LT		3	4	1
0+00.00	TO	20+00.00	LT	39			
0+00.00	TO	20+00.00	RT	39	167	220	70
0+36.80	TO	20+00.00	LT		163	225	69
20+00.00	TO	50+00.00	LT	56	250	338	105
20+00.00	TO	50+00.00	RT	56	250	338	105
50+00.00	TO	80+00.00	LT	56	250	338	105
50+00.00	TO	80+00.00	RT	56	250	338	105
80+00.00	TO	110+00.00	LT	56	250	338	105
80+00.00	TO	110+00.00	RT	56	250	338	105
110+00.00	TO	140+00.00	LT	56	250	338	105
110+00.00	TO	140+00.00	RT	56	250	338	105
140+00.00	TO	170+00.00	LT	56	250	338	105
140+00.00	TO	170+00.00	RT	56	250	338	105
170+00.00	TO	200+00.00	LT	56	250	338	105
170+00.00	TO	200+00.00	RT	56	250	338	105
200+00.00	TO	230+00.00	LT	56	250	338	105
200+00.00	TO	230+00.00	RT	56	250	338	105
230+00.00	TO	250+60.00	LT	39	172	230	72
230+00.00	TO	250+60.00	RT	39	172	230	72
PROJECT TOTAL				955	4,595	6,203	1,930

GUARDRAIL SCHEDULE

LOCATION				STEEL PLATE BEAM GUARDRAIL TYPE A, 6 FT POSTS	TRAFFIC BARRIER TERMINAL, TYPE 1 TAN	STRONG POST GUARDRAIL ATTACHED TO CULVERT	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A	GUARDRAIL REMOVAL
STATION	TO	STATION	OFFSET	(FT)	(EACH)	(FT)	(EACH)	(EACH)	(FT)
88+69.25	TO	89+19.25	RT		1		1	1	
89+19.25	TO	89+94.25	RT	75.0				1	
89+94.25	TO	90+31.75	RT			37.5		1	
90+31.75	TO	90+81.75	RT		1		1	1	
89+44.25	TO	89+94.25	LT		1		1	1	
89+94.25	TO	90+31.75	LT			37.5		1	
90+31.75	TO	91+06.75	LT	75.0				1	
91+06.75	TO	91+56.75	LT		1		1	1	
89+44.70	TO	91+23.05	LT						179
89+13.80	TO	90+78.67	RT						165
PROJECT TOTAL				150	4	75	4	8	344

TEMPORARY RAMP SCHEDULE

LOCATION			WIDTH	LENGTH	TEMPORARY RAMP
STATION	TO	STATION	(FT)	(FT)	(SQ YD)
126+15.00	TO	126+02.50	13.5	12.5	37.5
250+44.13	TO	250+56.63	13.5	12.5	37.5
PROJECT TOTAL					75

ADA RAMP SCHEDULE

LOCATION	SIDEWALK REMOVAL	CURB & GUTTER REMOVAL	DETECTABLE WARNINGS	PCC SIDEWALK, 5"	CCC&G TYPE B-6,18
STATION	(SQ FT)	(FT)	(SQ FT)	(SQ FT)	(FOOT)
S. 1st Street					
SW	14	0	0	0	0
2nd Street					
NE	33	0	8	35	0
SE	294	72	20	210	27
SW	44	10	8	42	10
PROJECT TOTAL					
	385.0	82.0	36.0	287.0	37.0

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USER NAME = jbuening	DESIGNED - JKP	REVISED -
	DRAWN - DMW	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JMB	REVISED -
PLOT DATE = 3/15/2021	DATE - 03/12/21	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
FAP 817 (IL 15)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50R5-4	ST. CLAIR	37	11
CONTRACT NO. 76L14				
ILLINOIS FED. AID PROJECT				

PAVEMENT MARKING SCHEDULE

STATION TO STATION	DIRECTION	THERMOPLASTIC PAVEMENT MARKING				RAISED REFLECTIVE PAVEMENT MARKER	TEMPORARY PAVEMENT MARKING				PAVEMENT MARKING REMOVAL - WATER BLASTING		RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	TEMPORARY PAVEMENT MARKING REMOVAL		SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	
		4" WHITE - LINE	4" YELLOW - LINE		24" WHITE LINE		4" WHITE - LINE	4" YELLOW - LINE		24" WHITE LINE	4" LINE	24" LINE		4" LINE	24" LINE			
		SOLID	SKIP-DASH	SOLID			SOLID	SKIP-DASH	SOLID									(SQ FT)
		(FOOT)				(EACH)	(FOOT)				(SQ FT)		(EACH)	(SQ FT)		(FOOT)	(SQ FT)	
IL 4																		
118+65	126+15	EB & WB	1500	190		10	1500	190			564		10	564		612	204	
IL 15																		
0+00	87+14	EB & WB	17428	2180		109	17428	2180			6536		109	6536		7128	2376	
87+14	110+45	EB & WB	4664	590	2332	29	4664	590	2332		2529		29	2529		1908	636	
110+45	132+50	EB & WB	4410	560		28	4410	560			1657		28	1657		1800	600	
132+50	152+00	EB & WB	3900	490	1950	24	3900	490	1950		2114		24	2114		1584	528	
152+00	154+25	EB & WB	450		450	3	450		450		300		3	300		180	60	
154+25	172+25	EB & WB	3600	450	1800	23	3600	450	1800		1950		23	1950		1476	492	
172+25	199+66	EB & WB	5482	690		34	5482	690			2058		34	2058		2232	744	
199+66	210+44	EB & WB	2156	270	1078	13	2156	270	1078		1168		13	1168		900	300	
210+44	224+75	EB & WB	2862		2862	18	2862		2862		1908		18	1908		1188	396	
224+75	233+90	EB & WB	1830	230	915	11	1830	230	915		992		11	992		756	252	
233+90	236+05	EB & WB	430		430	3	430		430		287		3	287		180	60	
236+05	239+82	EB & WB	754	100		5	754	100			285		5	285		288	96	
239+82	244+30	EB & WB	896	120	448	6	896	120	448		488		6	488		360	120	
244+30	246+00	EB & WB	340		340	2	340		340		227		2	227		108	36	
246+00	250+60	EB & WB	920	120	460	7	920	120	460		500		7	500		360	120	
IL 4																		
0+00		WB			12.5				12.5		25			25				
IL 15																		
1+00		EB			12.5				12.5		25			25				
TOTAL			51622	5990	13065	25	325	51622	5990	13065	25	23563	50	325	23563	50	21060	7020
USE			70677			25	325	70677			25	23613		325	23613		21060	7020

MAINTENANCE OF TRAFFIC SCHEDULE

STATION TO STATION	DIRECTION	PAVEMENT MARKING TAPE, TYPE IV		TEMPORARY PAVEMENT MARKING, 6"	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	BARRIER WALL REFLECTOR, TYPE C	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	TEMPORARY RUMBLE STRIP	
		4" WHITE - LINE	24" WHITE - LINE								
		(FOOT)		(FOOT)	(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)	
Stage 1											
BEFORE WORK ZONE										6	
247+81			12								
247+88	255+52	EB	764								
248+80	255+76	WB	696								
249+00		EB						1			
249+05	255+80	EB		675	675		56				
249+05	255+80										
255+81		EB						1			
257+12		WB	12								
Stage 2											
BEFORE WORK ZONE										6	
247+72		EB	12								
248+32	256+97	EB	865								
249+22	255+76	WB	654								
249+00		EB							1		
249+05	255+80	WB		675	675		56				
255+81		EB							1		
257+18		WB	12								
TOTAL			2979	48	1350	675	675	112	2	2	12
USE			2979	48	1350	675	675	112	2	2	12

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 DRAWN - DMW
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 CHECKED - JMB
 PLOT DATE = 3/15/2021
 DATE - 03/12/21

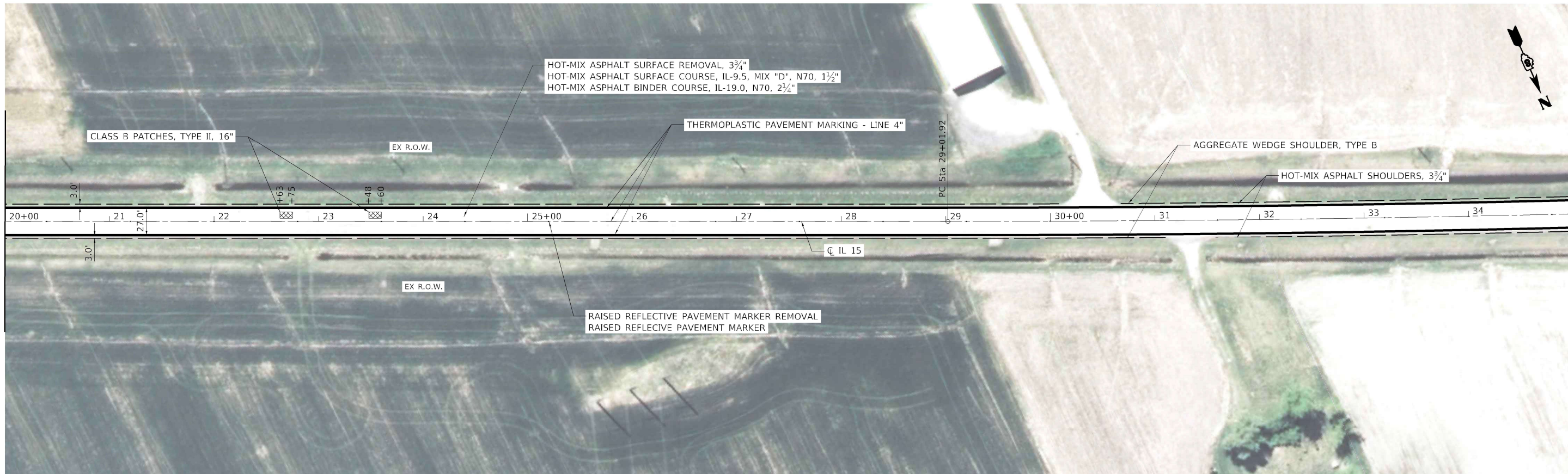
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
 FAP 817 (IL 15)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50R5-4	ST. CLAIR	37	12
CONTRACT NO. 76L14				
ILLINOIS FED. AID PROJECT				



EXIST. CURVE EXIL152
 PI STA. = 35+46.30
 $\Delta = 2^\circ 57' 11''$ (LT)
 $D = 0^\circ 13' 45''$
 $R = 25,000.00'$
 $T = 644.37'$
 $L = 1,288.46'$
 $E = 8.30'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 29+01.92$
 $P.T. STA. = 41+90.39$



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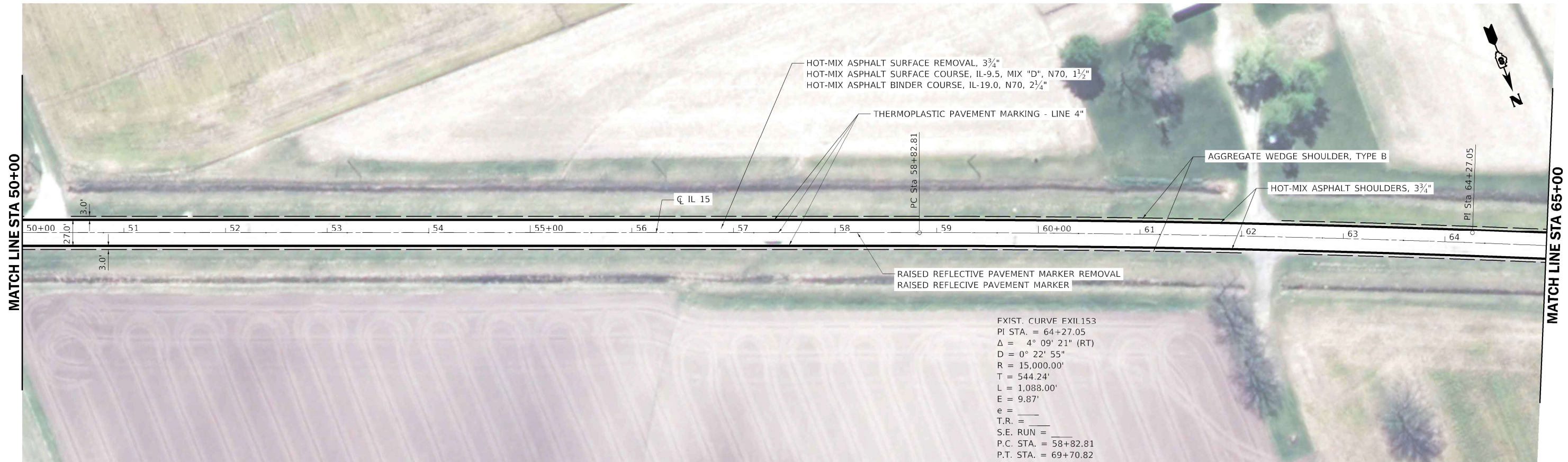
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PLOT SCALE = 100,000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

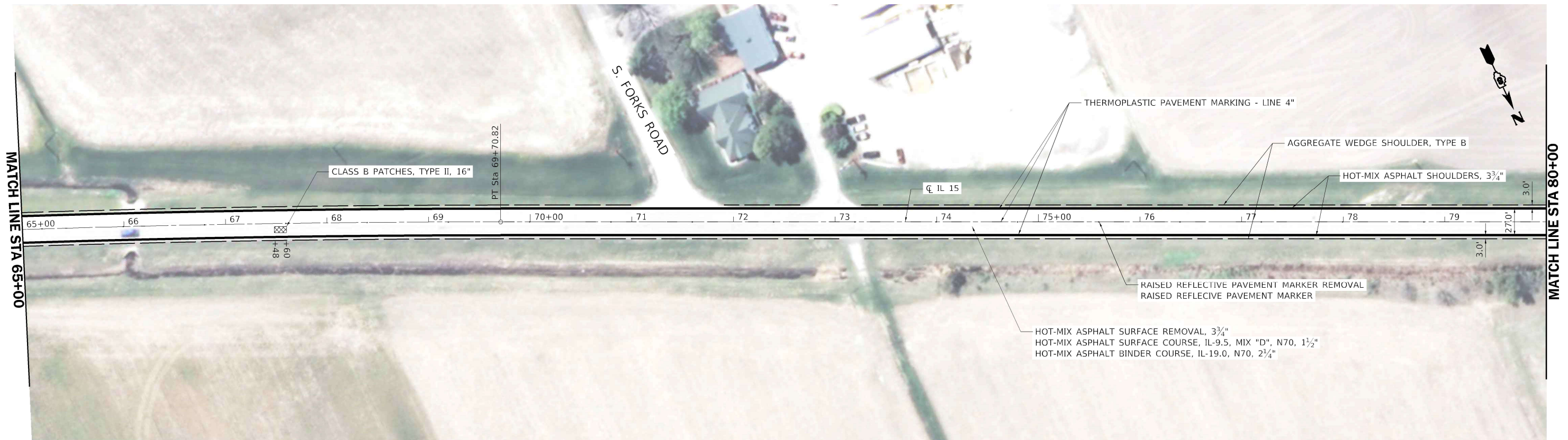
**RESURFACING PLAN
 FAP 817 (IL 15)**

SCALE: SHEET OF SHEETS STA. TO STA.

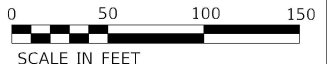
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50R5-4	ST. CLAIR	37	14
CONTRACT NO. 76L14				
ILLINOIS FED. AID PROJECT				



EXIST. CURVE EXIL153
 PI STA. = 64+27.05
 $\Delta = 4^\circ 09' 21''$ (RT)
 $D = 0^\circ 22' 55''$
 $R = 15,000.00'$
 $T = 544.24'$
 $L = 1,088.00'$
 $E = 9.87'$
 $e = \text{---}$
 $T.R. = \text{---}$
 $S.E. RUN = \text{---}$
 $P.C. STA. = 58+82.81$
 $P.T. STA. = 69+70.82$



HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"
 HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"
 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2 1/4"



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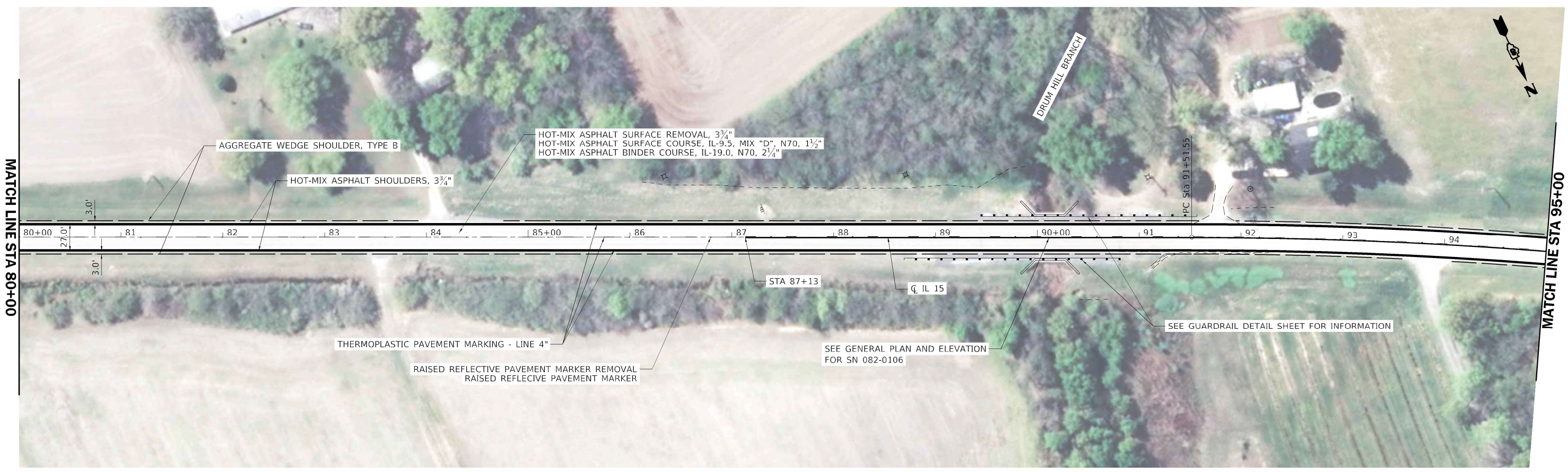
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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

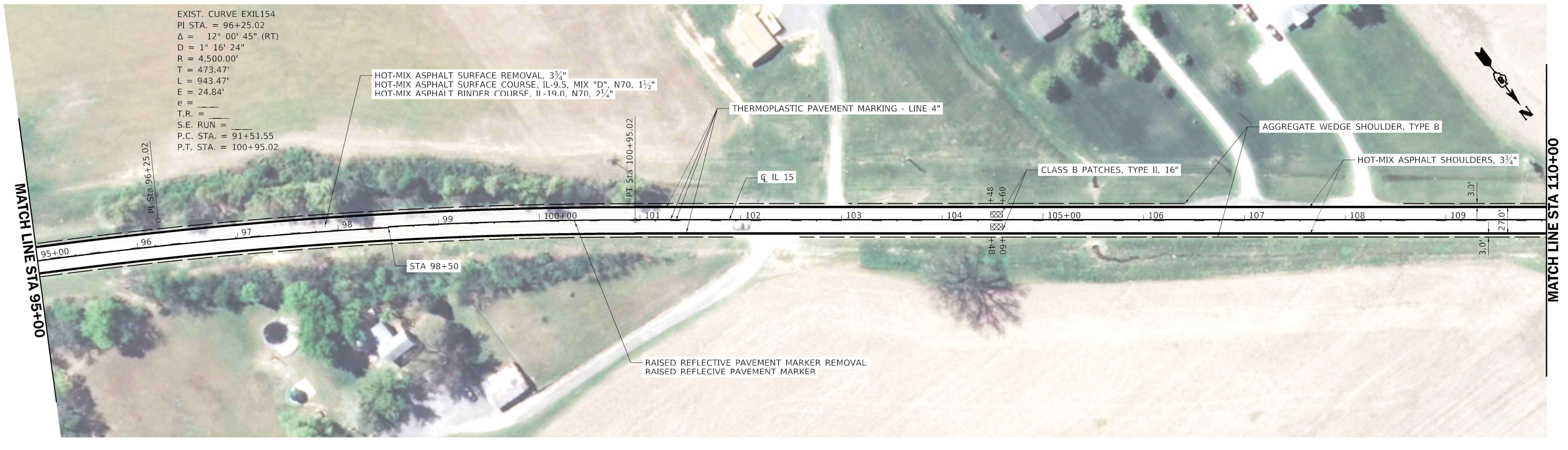
RESURFACING PLAN
FAP 817 (IL 15)

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50R5-4	ST. CLAIR	37	15
			CONTRACT NO. 76L14	
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



MODEL: Default
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EXIST. CURVE EXIL154
 PI STA. = 96+25.02
 $\Delta = 12^\circ 00' 45''$ (RT)
 $D = 1^\circ 16' 24''$
 $R = 4,500.00'$
 $T = 473.47'$
 $L = 943.47'$
 $E = 24.84'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 91+51.55$
 $P.T. STA. = 100+95.02$



USER NAME = jbuering	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2021	CHECKED -	REVISED -
	DATE -	REVISED -

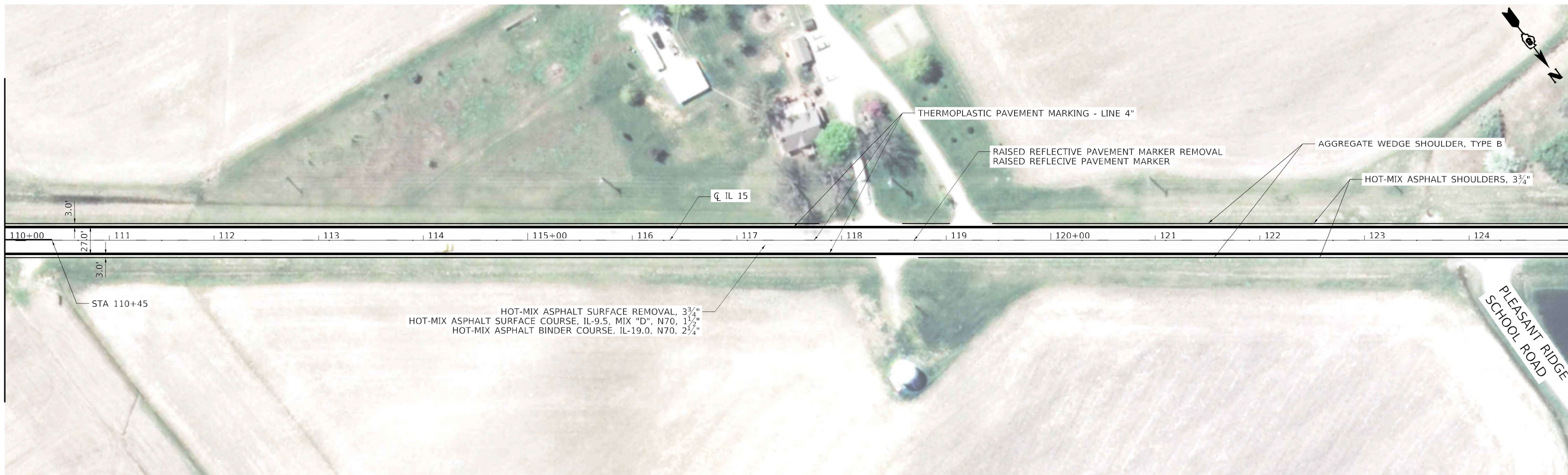
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RESURFACING PLAN
FAP 817 (IL 15)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50R5-4	ST. CLAIR	37	16
CONTRACT NO. 76L14				
ILLINOIS FED. AID PROJECT				

MATCH LINE STA 110+00



MATCH LINE STA 125+00

MATCH LINE STA 125+00



MATCH LINE STA 150+00



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CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS

USER NAME = jbuering	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2021	CHECKED -	REVISED -
	DATE -	REVISED -

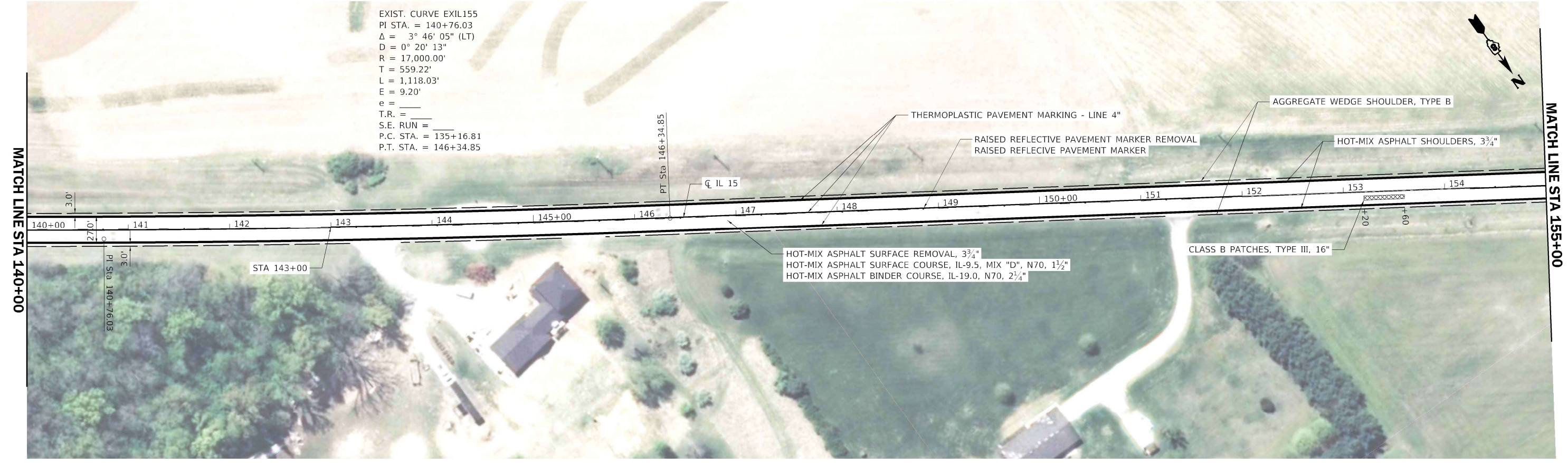
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RESURFACING PLAN
FAP 817 (IL 15)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50RS-4	ST. CLAIR	37	17
			CONTRACT NO. 76L14	
ILLINOIS FED. AID PROJECT				

EXIST. CURVE EXIL155
 PI STA. = 140+76.03
 $\Delta = 3^\circ 46' 05''$ (LT)
 $D = 0^\circ 20' 13''$
 $R = 17,000.00'$
 $T = 559.22'$
 $L = 1,118.03'$
 $E = 9.20'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 135+16.81$
 $P.T. STA. = 146+34.85$



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CHASTAIN & ASSOCIATES LLC
 CONSULTING ENGINEERS

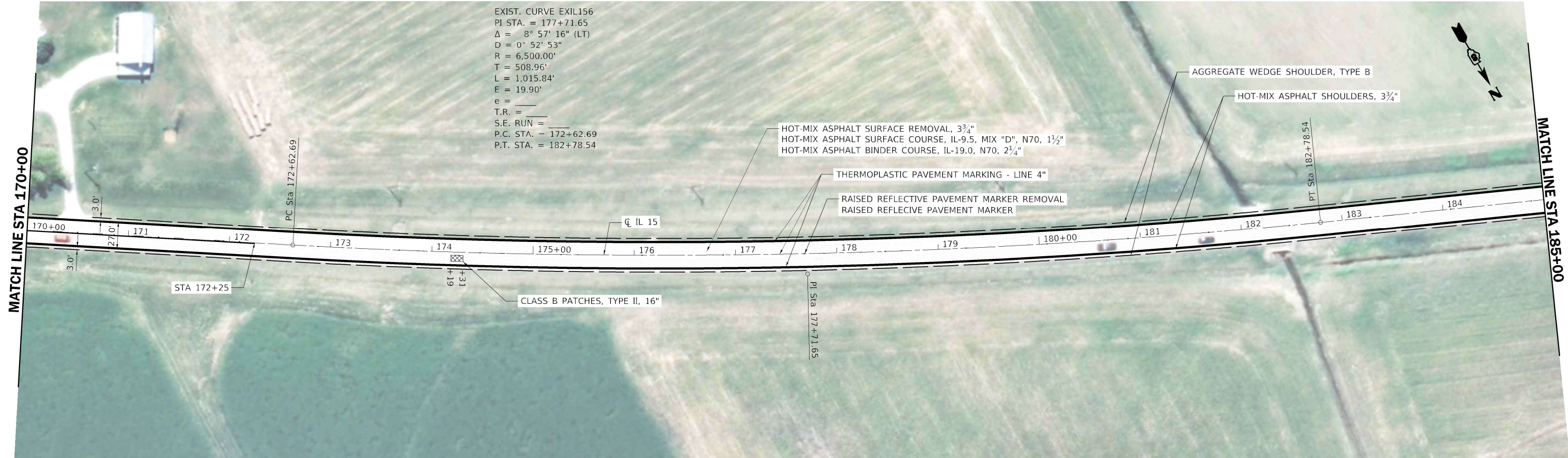
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	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

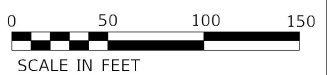
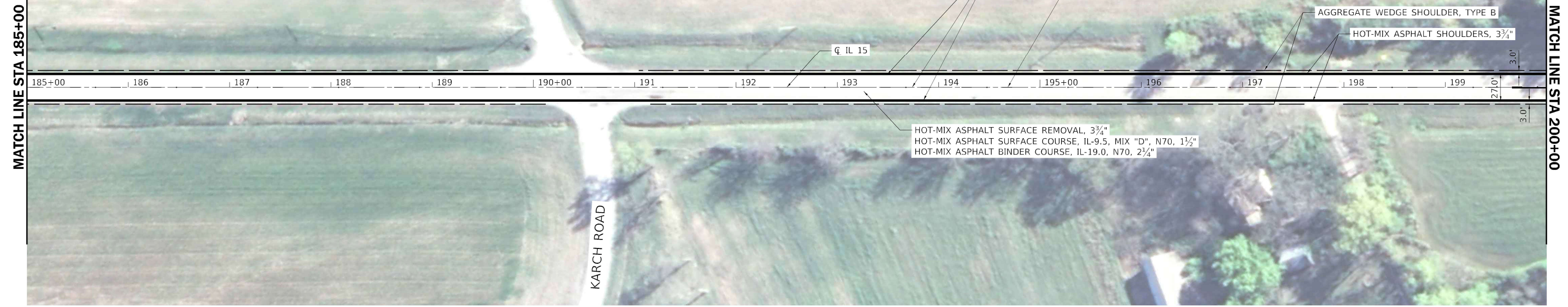
**RESURFACING PLAN
 FAP 817 (IL 15)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50R5-4	ST. CLAIR	37	18
CONTRACT NO. 76L14				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



EXIST. CURVE EXIL156
 PI STA. = 177+71.65
 $\Delta = 8^\circ 57' 16''$ (LT)
 $D = 0^\circ 52' 53''$
 $R = 6,500.00'$
 $T = 508.96'$
 $L = 1,015.84'$
 $E = 19.90'$
 $e = \text{---}$
 $T.R. = \text{---}$
 $S.E. RUN = \text{---}$
 $P.C. STA. = 172+62.69$
 $P.T. STA. = 182+78.54$



MODEL: Default
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CHASTAIN & ASSOCIATES LLC
 CONSULTING ENGINEERS

USER NAME = jbuering	DESIGNED -	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

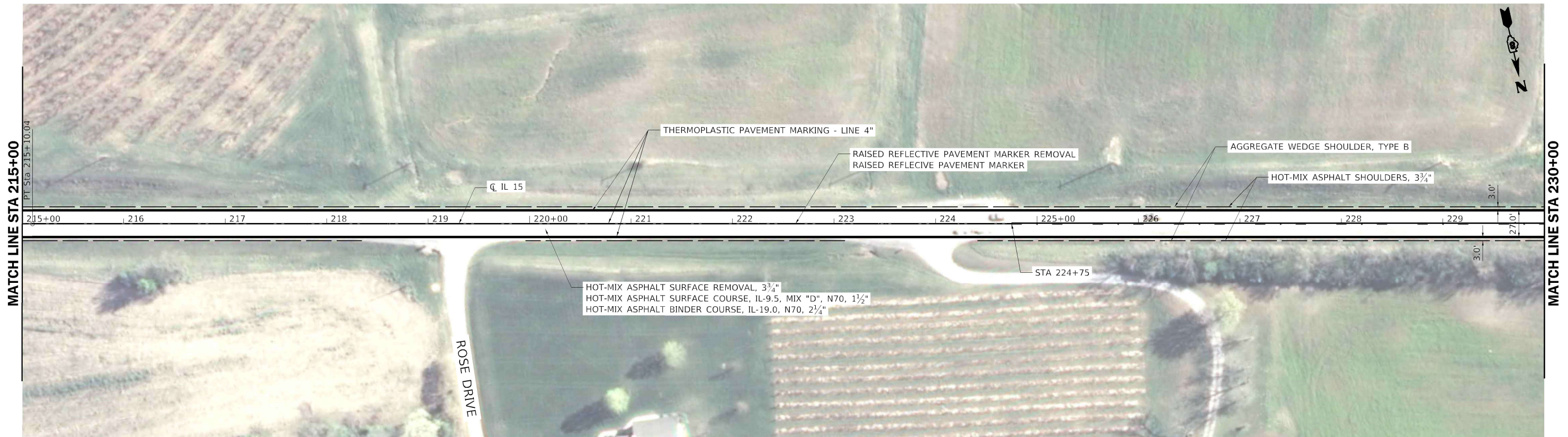
**RESURFACING PLAN
 FAP 817 (IL 15)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50R5-4	ST. CLAIR	37	19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76L14	



EXIST. CURVE EXIL157
 PI STA. = 209+80.03
 $\Delta = 12^\circ 11' 35''$ (LT)
 $D = 1^\circ 08' 45''$
 $R = 5,000.00'$
 $T = 534.04'$
 $L = 1,064.04'$
 $E = 28.44'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 P.C. STA. = 204+46.00
 P.T. STA. = 215+10.04



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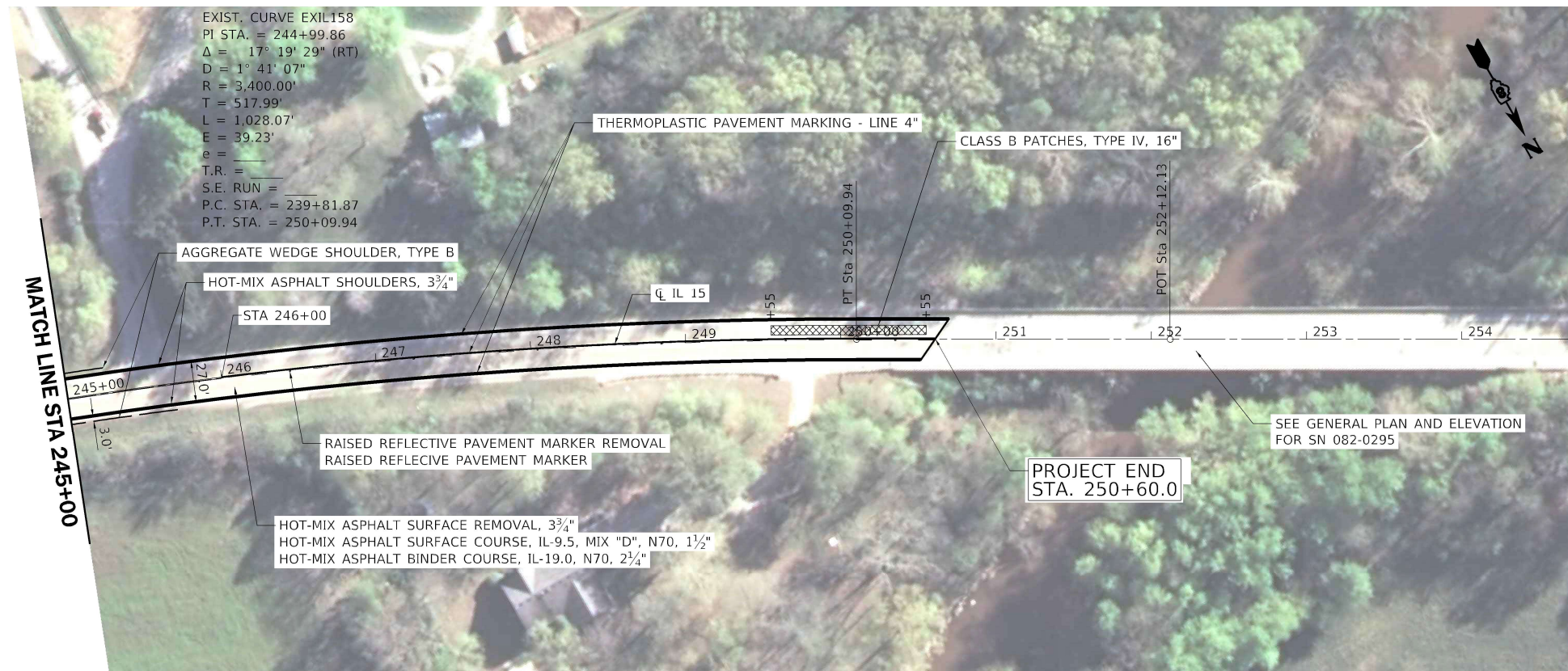
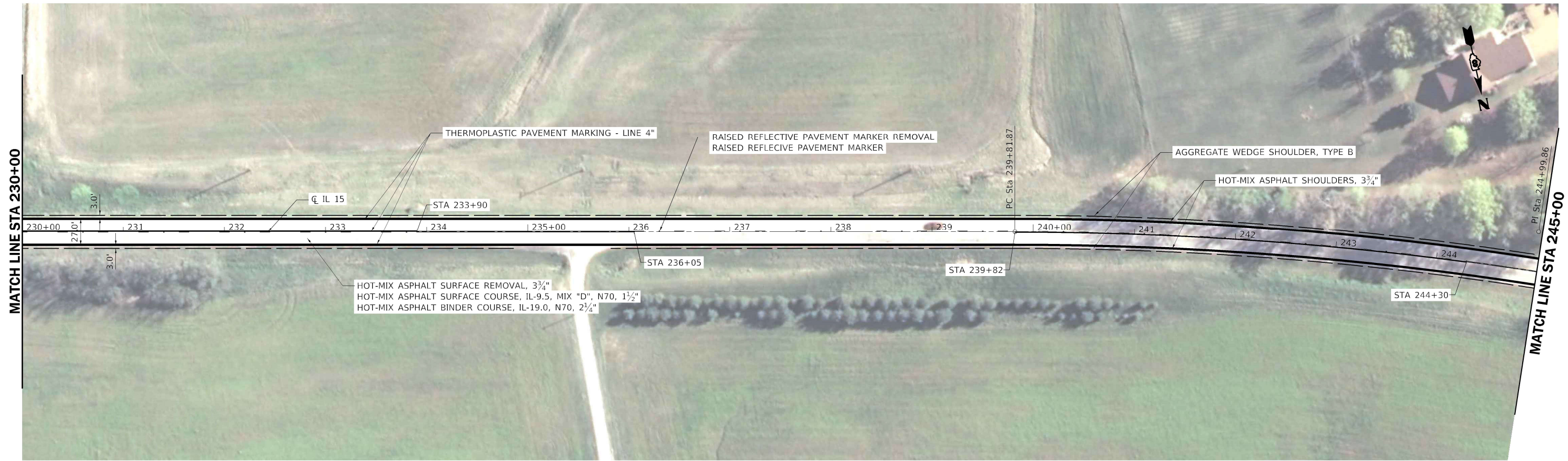
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RESURFACING PLAN
FAP 817 (IL 15)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50RS-4	ST. CLAIR	37	20
CONTRACT NO. 76L14			ILLINOIS FED. AID PROJECT	



EXIST. CURVE EXIL158
 PI STA. = 244+99.86
 $\Delta = 17^\circ 19' 29''$ (RT)
 $D = 1^\circ 41' 07''$
 $R = 3,400.00'$
 $T = 517.99'$
 $L = 1,028.07'$
 $E = 39.23'$
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CHASTAIN & ASSOCIATES LLC
 CONSULTING ENGINEERS

USER NAME = jbuering	DESIGNED -	REVISED -
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PLOT DATE = 3/15/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

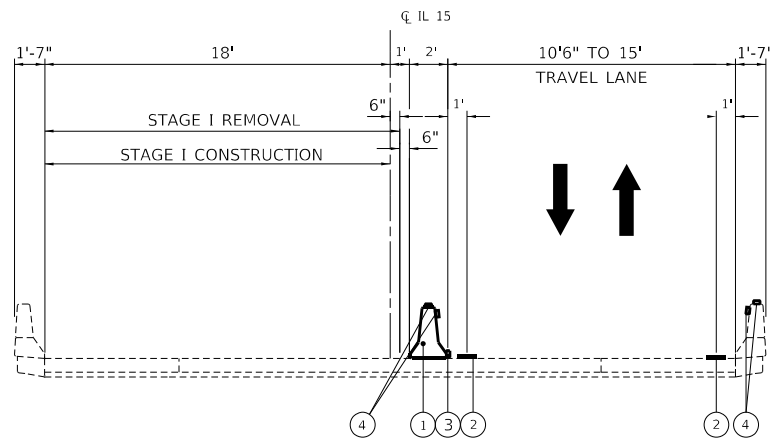
**RESURFACING PLAN
 FAP 817 (IL 15)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50R5-4	ST. CLAIR	37	21
CONTRACT NO. 76L14				
ILLINOIS FED. AID PROJECT				

STAGE I TYPICAL SECTION

LOOKING WEST

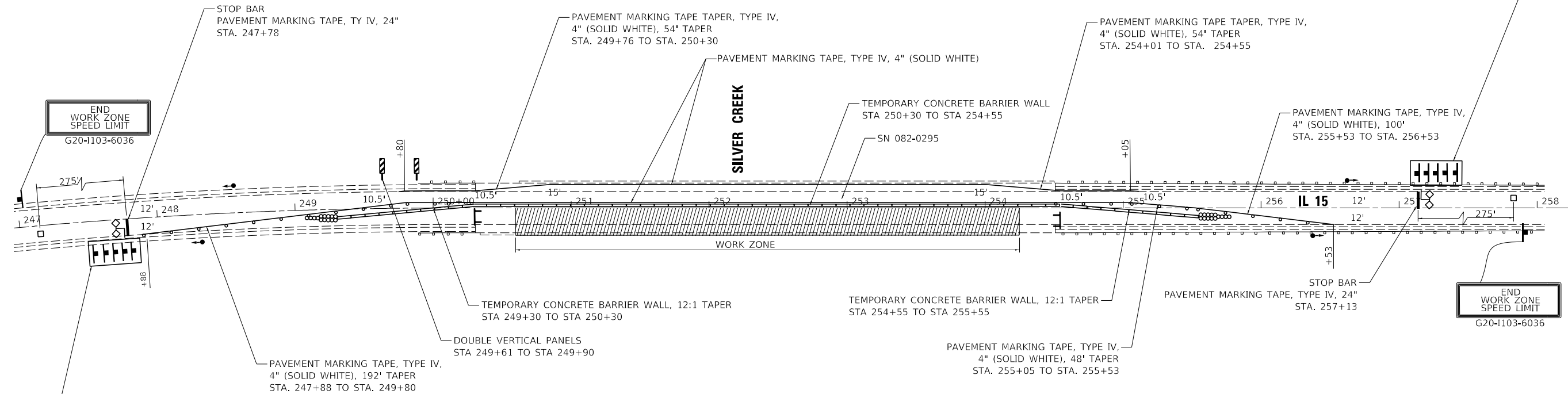
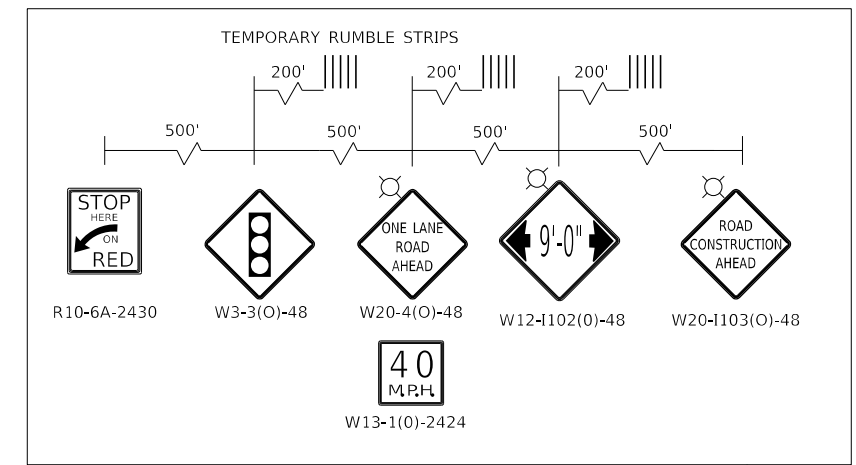


TYPICAL LEGEND

- ① TEMPORARY CONCRETE BARRIER WALL
- ② PAVEMENT MARKING TAPE, TYPE IV - LINE 4" (WHITE)
- ③ TEMPORARY PAVEMENT MARKING 6"
- ④ BARRIER WALL REFLECTORS, TYPE C (SEE STD. 782006)

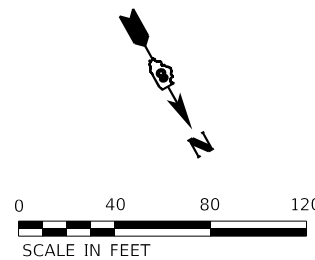
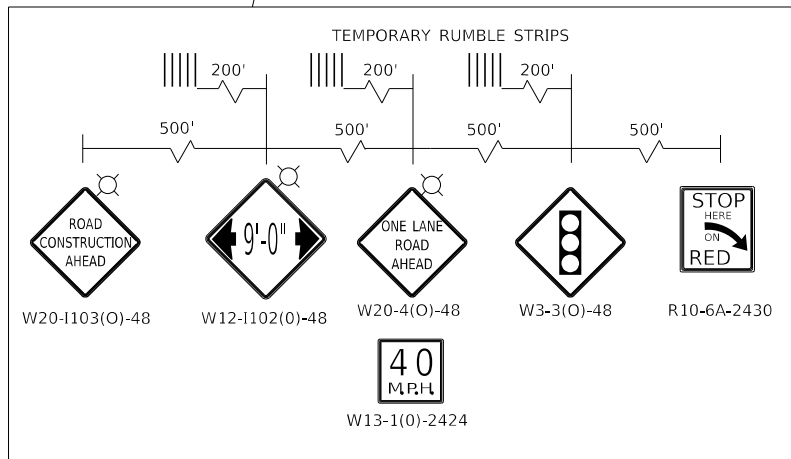
PLAN LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER
- SIGN ON PERMANENT OR PORTABLE SUPPORT
- DOUBLE VERTICAL PANEL AT 25' MIN. 1' FROM EDGE OF PAVEMENT
- TYPE III BARRICADE
- TEMPORARY IMPACT ATTENUATOR (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- DRUM AT 50' C-C SPACING IN TANGENT, 20' C-C SPACING TAPERS, AND 10' C-C SPACING IN CURVES/RADII
- TEMPORARY LED TRAFFIC SIGNAL HEAD, NUMBER OF SECTION AND DISPLAY AS REQUIRED.
- DETECTOR LOOPS



STAGE CONSTRUCTION NOTES

1. ALL CONFLICTING PAVEMENT MARKING SHALL BE COVERED PRIOR TO PLACING PAVEMENT MARKING NECESSARY FOR STAGE CONSTRUCTION.
2. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED 2 WEEKS PRIOR TO CONSTRUCTION AND AT THE DIRECTION OF THE ENGINEER.
3. PRIOR TO INSTALLING POST MOUNTED SIGNS, THE CONTRACTOR SHALL CONTACT J.U.L.I.E.
4. ANY IDOT SIGN THAT IS COVERED OR CHANGED SHALL BE DONE IN A MANNER WHICH DOES NOT DAMAGE ANY SIGNS OR POSTS. ANY SIGN OR POST WHICH THE ENGINEER DETERMINES HAS BEEN DAMAGED BY THE CONTRACTOR SHALL BE PREPARED OR REPLACED AT THE CONTRACTOR'S OWN EXPENSE.
5. SEE STANDARDS 701321 FOR ADDITIONAL INFORMATION NOT SHOWN.
6. THE ENGINEER MUST BE NOTIFIED AT LEAST 72 HOURS PRIOR TO PLACING THE TEMPORARY SIGNALS IN OPERATION SO THAT ARRANGEMENTS CAN BE MADE TO INSPECT THE INSTALLATION AND SET THE TIMING OF THE SIGNALS.
7. AT ANY TIME THAT THE SIGNALS ARE NOT OPERATING THE SIGNAL HEAD SHALL BE HOODED AND THE SIGNAL AHEAD SIGN COVERED OR REMOVED.
8. THE ABOVE NOTED SIGNS WILL BE PLACED TO FIT FIELD CONDITIONS AS DIRECTED BY THE RE /RT. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS DETERMINED. THE HEIGHT TO THE BOTTOM OF SIGNS SHALL NOT BE LESS THAN 6'. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
9. ACCESS TO PUBLIC ROADS AND PRIVATE ENTRANCES SHALL BE MAINTAINED DURING ALL STAGES OF THE WORK.
10. SIGNAL LOCATIONS NOT SHOWN SHALL BE DETERMINED IN THE FIELD AS DIRECTED BY THE TRAFFIC CONTROL ENGINEER AND THE RE/RT.



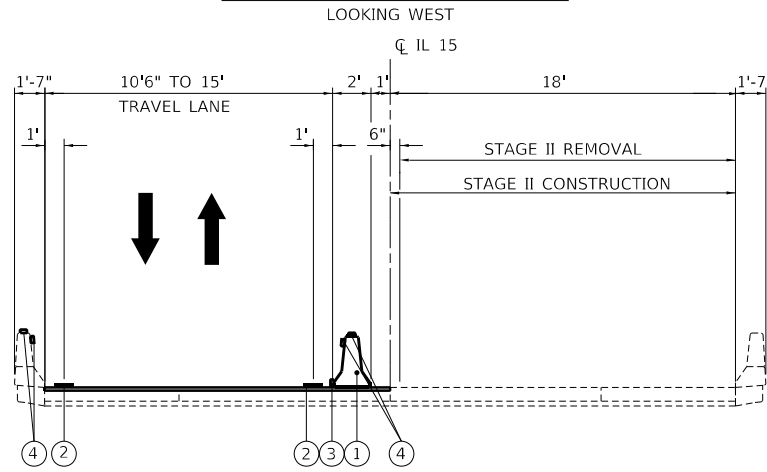
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PLOT DATE = 3/15/2021	CHECKED - JMB	REVISED -
	DATE - 03/12/21	REVISED -

MAINTENANCE OF TRAFFIC - STAGE I	
FAP 817 (IL 15)	
SCALE: 1:40	SHEET 1 OF 2 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50RS-4	ST. CLAIR	37	22
			CONTRACT NO. 76L14	
ILLINOIS FED. AID PROJECT				

STAGE II TYPICAL SECTION

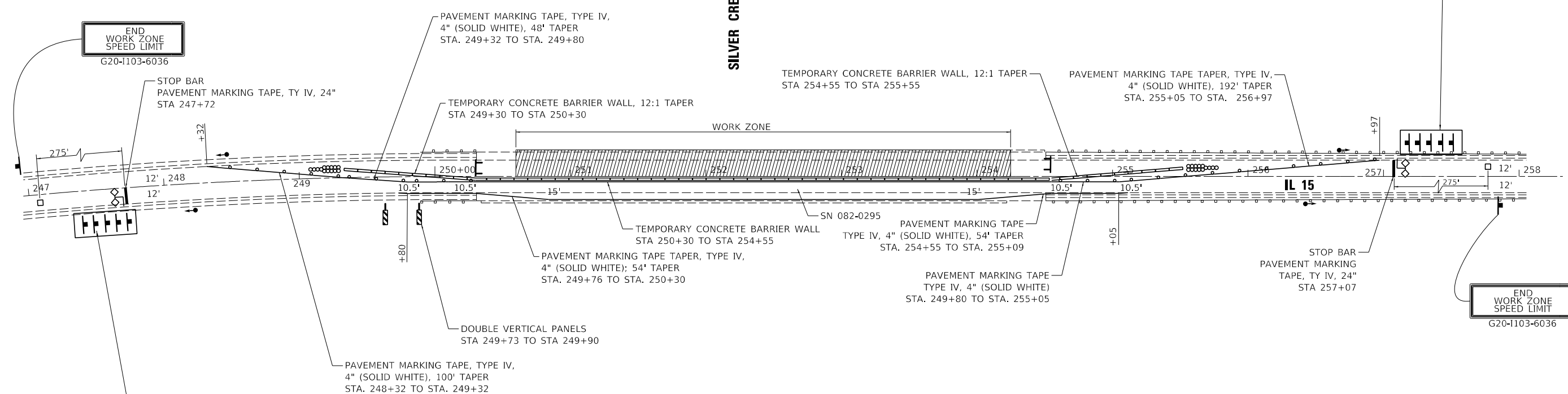
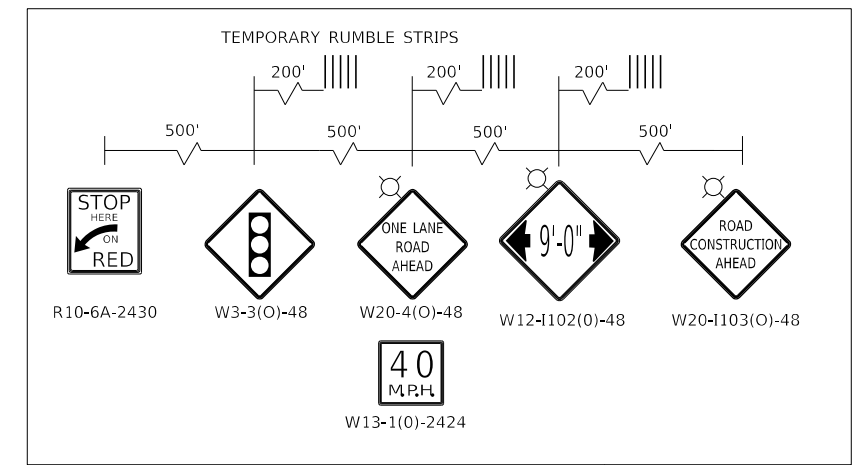


TYPICAL LEGEND

- ① TEMPORARY CONCRETE BARRIER WALL
- ② PAVEMENT MARKING TAPE, TYPE IV - LINE 4" (WHITE)
- ③ TEMPORARY PAVEMENT MARKING 6"
- ④ BARRIER WALL REFLECTORS, TYPE C (SEE STD. 782006)

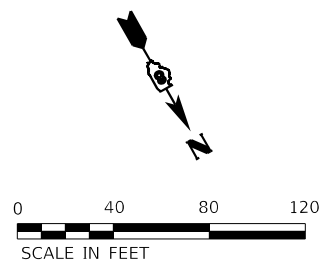
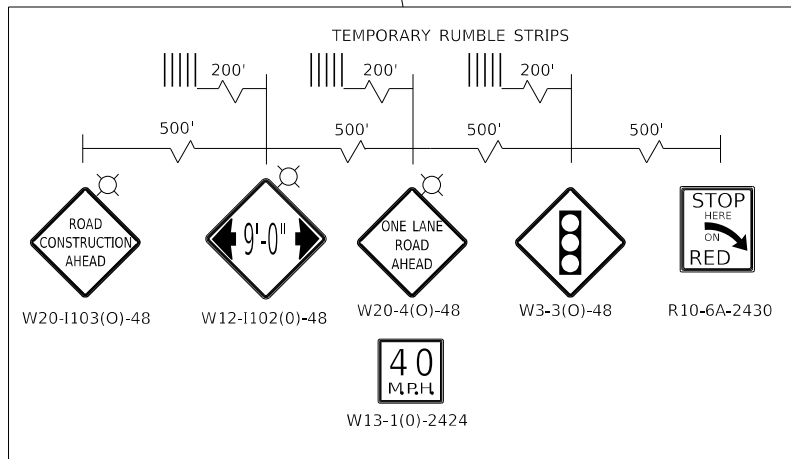
PLAN LEGEND

- WORK ZONE
- TEMPORARY CONCRETE BARRIER
- SIGN ON PERMANENT OR PORTABLE SUPPORT
- DOUBLE VERTICAL PANEL AT 25' MIN. 1' FROM EDGE OF PAVEMENT
- TYPE III BARRICADE
- TEMPORARY IMPACT ATTENUATOR (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3
- DRUM AT 50' C-C SPACING IN TANGENT, 20' C-C SPACING TAPERS, AND 10' C-C SPACING IN CURVES/RADII
- TEMPORARY LED TRAFFIC SIGNAL HEAD, NUMBER OF SECTION AND DISPLAY AS REQUIRED.
- DETECTOR LOOPS



STAGE CONSTRUCTION NOTES

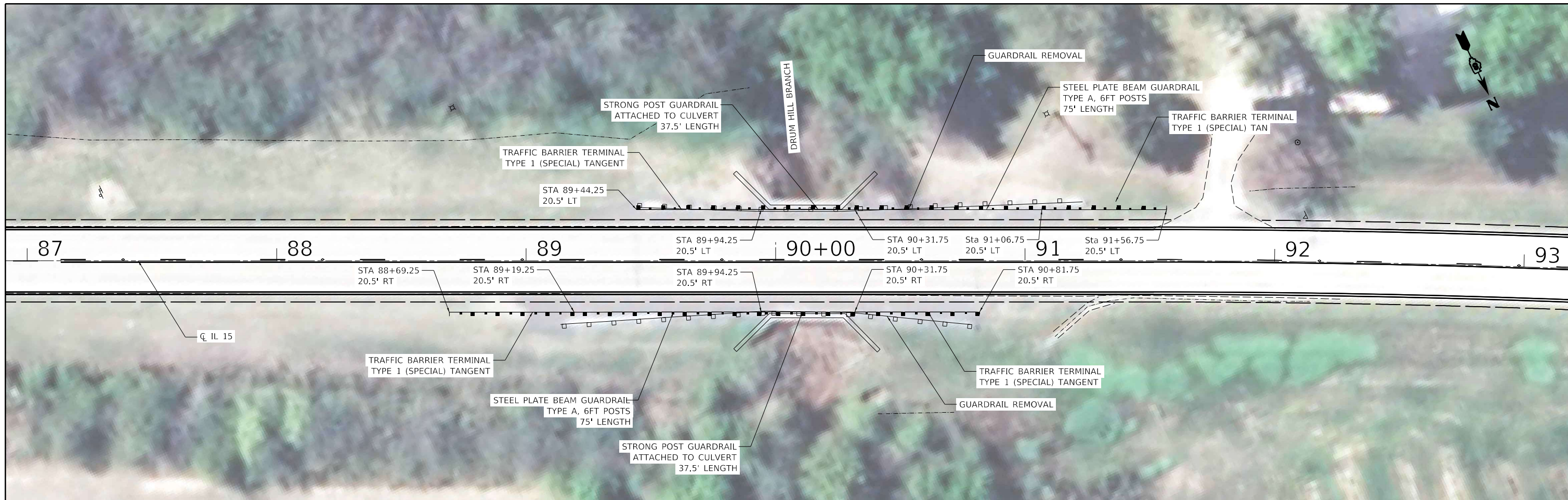
1. ALL CONFLICTING PAVEMENT MARKING SHALL BE COVERED PRIOR TO PLACING PAVEMENT MARKING NECESSARY FOR STAGE CONSTRUCTION.
2. CHANGEABLE MESSAGE SIGNS SHALL BE PLACED 2 WEEKS PRIOR TO CONSTRUCTION AND AT THE DIRECTION OF THE ENGINEER.
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8. THE ABOVE NOTED SIGNS WILL BE PLACED TO FIT FIELD CONDITIONS AS DIRECTED BY THE RE /RT. THE CONTRACTOR SHALL FURNISH THE POSTS AND ERECT SIGNS AT THE LOCATIONS DETERMINED. THE HEIGHT TO THE BOTTOM OF SIGNS SHALL NOT BE LESS THAN 6'. THE POSTS SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
9. ACCESS TO PUBLIC ROADS AND PRIVATE ENTRANCES SHALL BE MAINTAINED DURING ALL STAGES OF THE WORK.
10. SIGNAL LOCATIONS NOT SHOWN SHALL BE DETERMINED IN THE FIELD AS DIRECTED BY THE TRAFFIC CONTROL ENGINEER AND THE RE/RT.



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	DATE - 03/12/21	REVISED -

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50R5-4	ST. CLAIR	37	23
CONTRACT NO. 76L14				
ILLINOIS FED. AID PROJECT				



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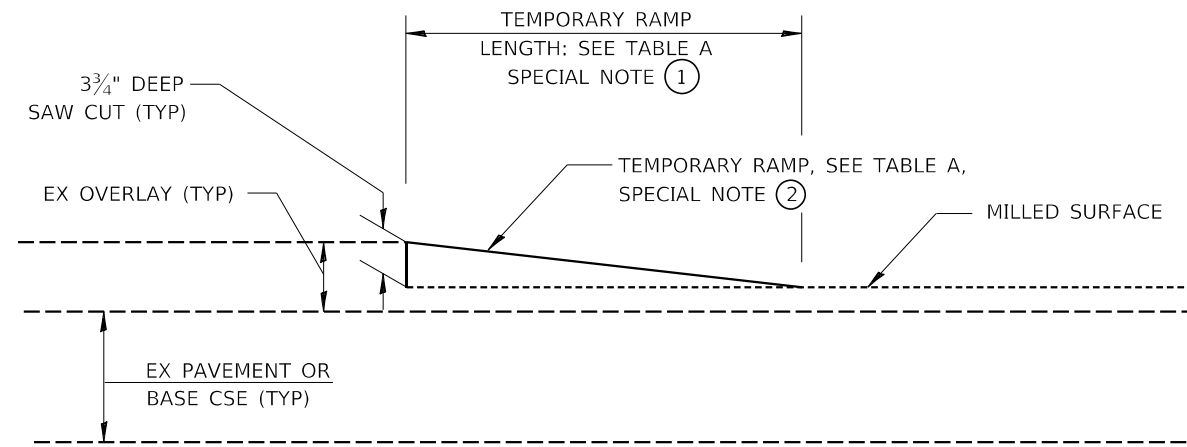
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

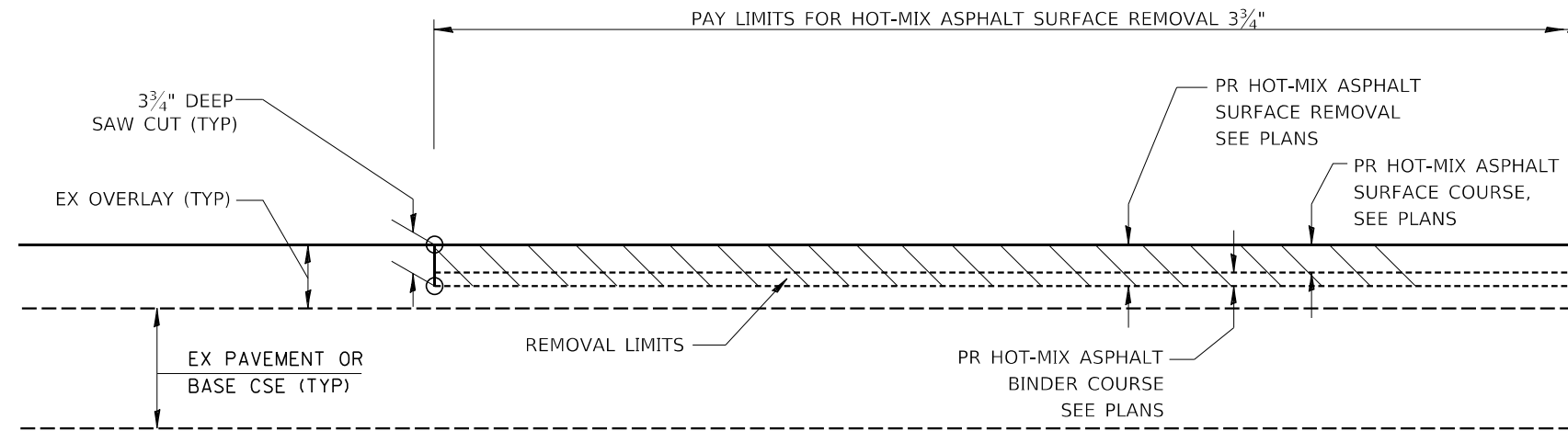
**GUARDRAIL DETAILS
 FAP 817 (IL 15)**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50R5-4	ST. CLAIR	37	25
CONTRACT NO. 76L14			ILLINOIS FED. AID PROJECT	



DETAIL TEMPORARY RAMP



PAVING DETAIL

**TABLE A
(LENGTHS AND TAPER RATES)**

SPECIAL NOTE NUMBER	ELEMENT	RATE/LENGTH
①	TEMPORARY RAMP TAPER RATE	1:40
②	TEMPORARY RAMP LENGTH	12.5'

GENERAL NOTES

1. THIS WORK SHALL BE DONE IN ACCORDANCE WITH ARTICLE 406.08, AND THE DETAILS IN THE PLANS.
2. THE PAVEMENT SURFACE TO BE REMOVED MAY BE EITHER HOT-MIX ASPHALT OR P.C. CONCRETE. THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH ARTICLE 440.04 AND THE DETAILS IN THE PLANS.
3. THE SAW CUT JOINTS SHALL BE PRIMED JUST PRIOR TO THE PLACING OF BITUMINOUS MATERIAL. THIS WORK WILL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLE 406.05.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

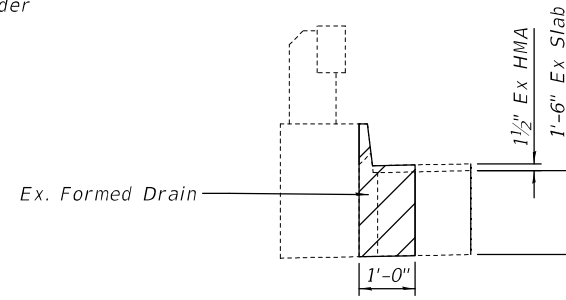
**TEMPORARY RAMP AND BUTT JOINT DETAILS
FAP 817 (IL 15)**

SCALE: SHEET OF SHEETS STA. TO STA.

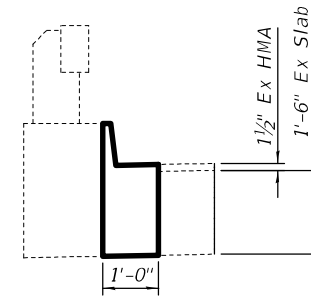
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817	50R5-4	ST. CLAIR	37	26
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76L14	

Existing Structure: 082-0106 was built in 1928. It is a simple RC Slab on RC closed Abutments. In 1960, it was widened under F.A.S. 847 Sec 50 Y. In 2015, Scour mitigation was placed under contract 76H43 Sec Dist 8 Scour Mit 2015-2.

Eliminate formed deck drains and replace remaining ones with round floor drains.



SECTION-REMOVAL OF EXISTING FORMED OPENING AND ADJACENT CONCRETE

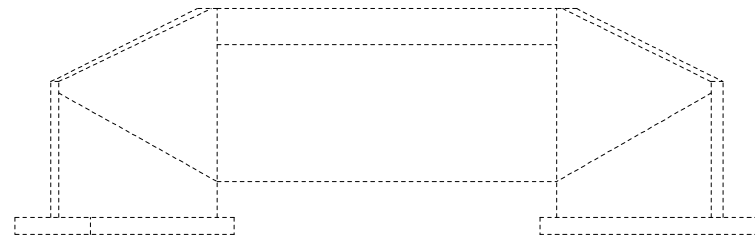


SECTION-PROPOSED FULL DEPTH PATCH @ ELIMINATED FLOOR DRAIN

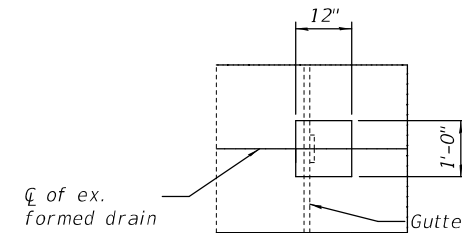
GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction 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 compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

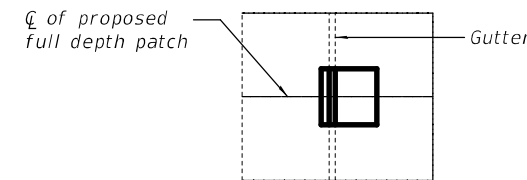
Bridge deck concrete sealer shall be placed on existing concrete top/inside faces of curbs (full length) and the top/bottom/inside faces of the concrete bridge rail (full length).



ELEVATION



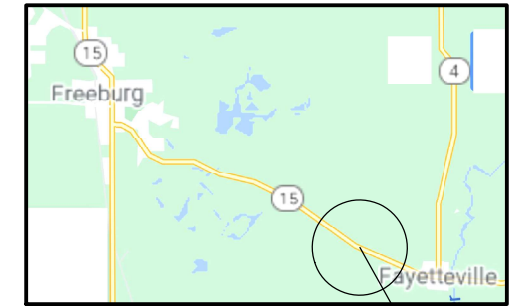
PLAN-REMOVAL OF EXISTING FORMED OPENING AND ADJACENT CONCRETE



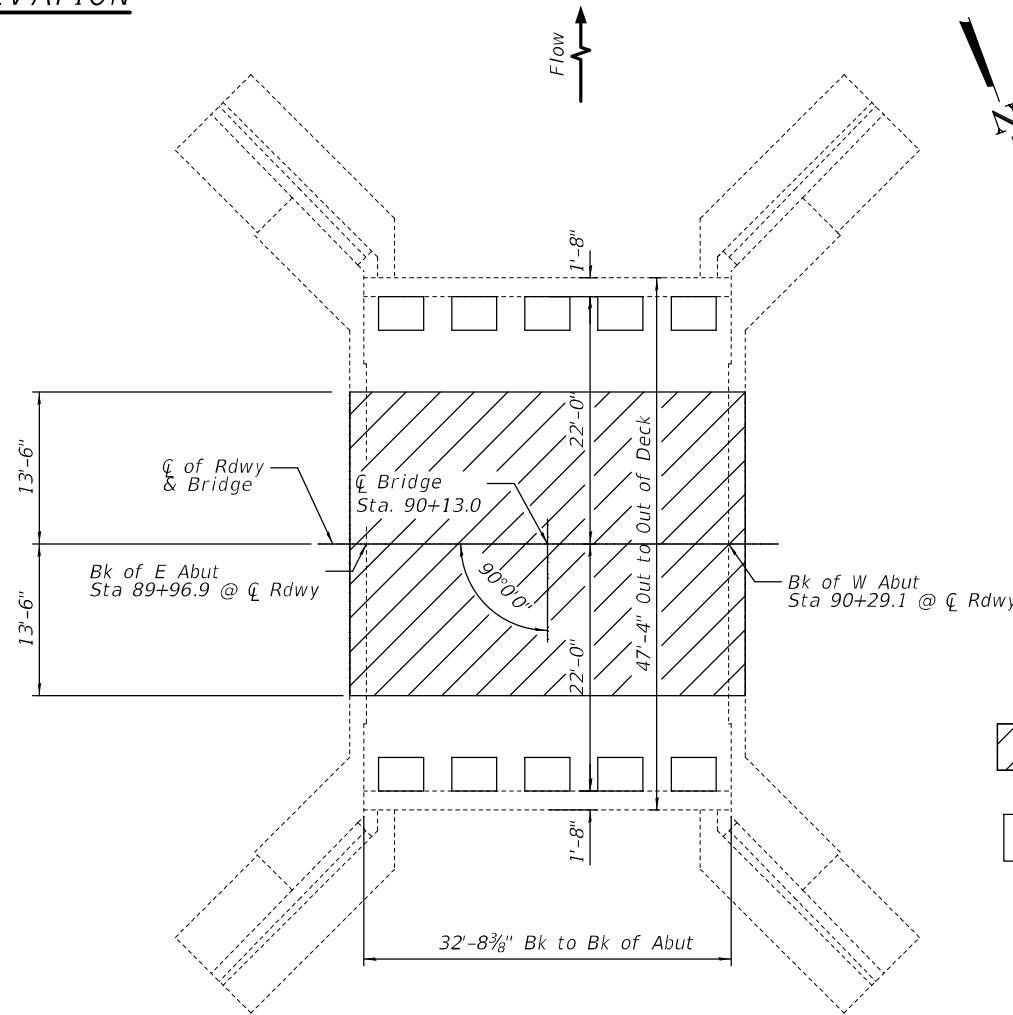
PLAN-PROPOSED FULL DEPTH PATCH @ ELIMINATED FLOOR DRAIN

FLOOR DRAIN ELIMINATION

(10 Req'd) Existing drains & adjacent concrete to be removal and replaced with full depth patch



LOCATION SKETCH



PLAN

- HMA Removal & Replacement
- Proposed Full Depth Patch @ Eliminated Floor Drain

Note:

Remove loose concrete adjacent to full depth patch. Cost included in Deck Slab Repair (Full Depth, Type II)

**DESIGN STRESSES
FIELD UNITS**

$f'c = 4,000 \text{ psi}$

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	1.1
Bridge Deck Concrete Sealer	Sq. Ft.	292
Hot-Mix Asphalt Binder Course, IL - 19.0, N70	Ton	13
Polymerized HMA Surface Course, IL-9.5, Mix"D" N70	Ton	9
Hot-Mix Asphalt Surface Removal, 3 3/4"	Sq. Yd.	97



Expires 11-30-2022

David Carl Puzey

04/30/2021

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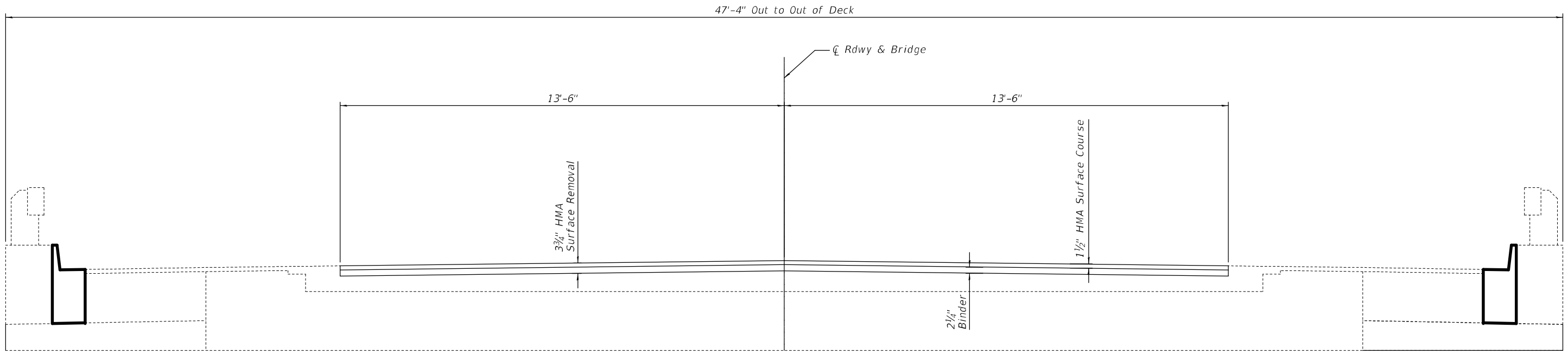
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PLOT DATE = 3/15/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION (IL 15 over Drum Hill Branch)
SN 082-0106**

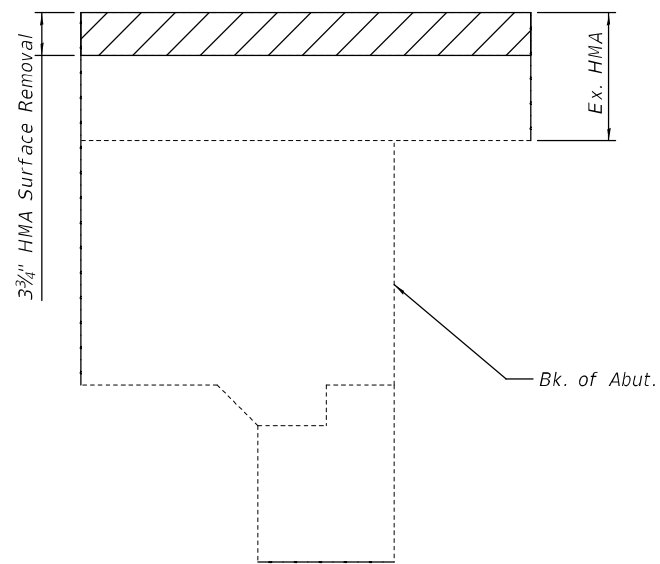
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50RS-4	ST. CLAIR	37	27
			CONTRACT NO. 76L14	
ILLINOIS FED. AID PROJECT				

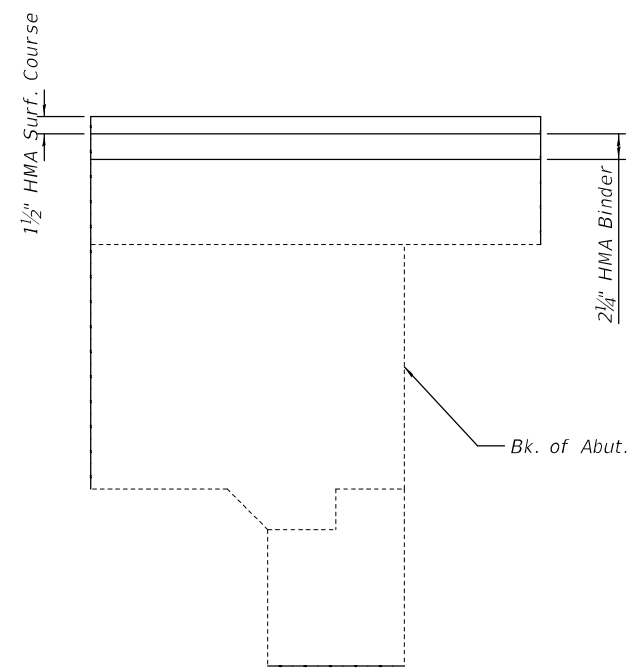


CROSS SECTION SLAB

Looking West



EX. SECTION AT ABUTMENTS



PROPOSED SECTION AT ABUTMENTS

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTION
SN 082-0106**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50RS-4	ST. CLAIR	37	28
CONTRACT NO. 76L14			ILLINOIS FED. AID PROJECT	

Existing Structure: 082-0295 was built in 1993 under FAP Route 817 Sec 50-BR.
It is a 3 span continuous plate girder supported on pile bent abutments and caisson shaft piers.
In 2017 the bridge deck was sealed.

The deck ends and mudwalls shall be replaced with strip seal joints. The deck shall be patched, and overlaid with waterproofing membrane system and hot-mix asphalt.

GENERAL NOTES

Reinforcement bars designated (E) shall be epoxy coated.

Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightly adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.

As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer.

Any cracks that cannot be removed by grinding 1/4 inch deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.

Plan dimensions and details relative to existing plans are subject to nominal construction 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 compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

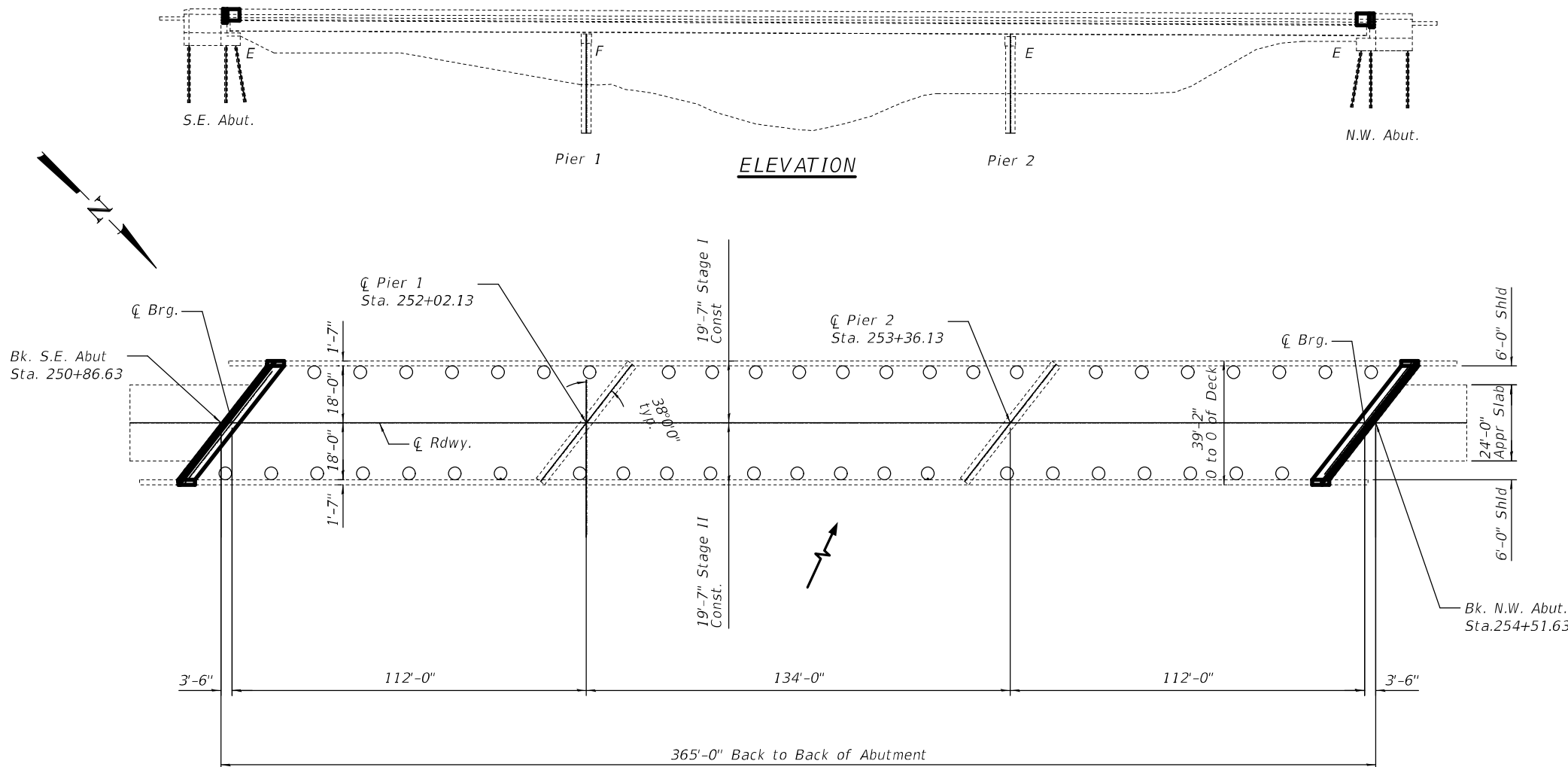
Existing reinforcement extending into removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with "Concrete Removal".

No field welding is permitted except as specified in the contract documents.

Joint opening shall be adjusted according to Article 520.04 of the Standard Specs. when the deck is poured at an ambient temperature other than 50°F.

Bridge deck concrete sealer shall be placed on top/inside faces of parapets (full length) and wingwalls and on top of new concrete at joints.

The pay item "Clearing Special" is for removing all trees and brush taller than 3ft under the bridge from abutment to abutment, and 7ft wider than the bridge on each side. See special provisions.



PLAN

○ -Floor Drains to Remain

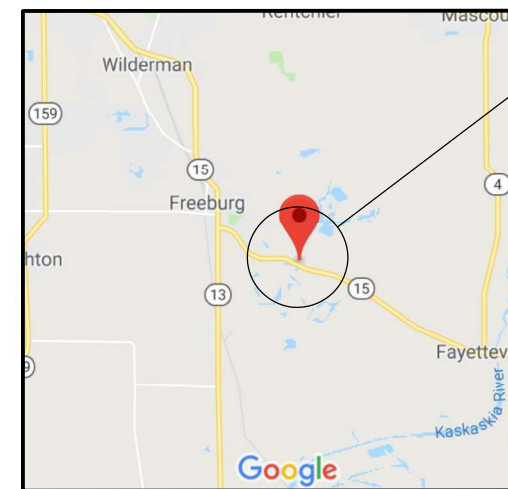
SHEET INDEX

- 1) General Plan and Elevation
- 2) Deck Section
- 3) Joint Removal
- 4) Joint Replacement (S.E. Abut.)
- 5) Joint Replacement (N.W. Abut.)
- 6) Joint & Drain Details
- 7) Preformed Joint Strip Seal
- 8) Bar Splicer
- 9) Temporary Concrete Barrier

DESIGN STRESSES

FIELD UNITS

f'c = 4,000 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (M270 Grade 36)



LOCATION SKETCH

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Polymerized HMA Surface Course, IL-9.5, Mix "D" N70	Ton	100
Concrete Removal	Cu. Yd.	17.1
Concrete Superstructure	Cu. Yd.	19.2
Reinforcement Bars, Epoxy Coated	Pound	2430
Bar Splicers	Each	32
Preformed Joint Strip Seal	Foot	95.5
Waterproofing Membrane System	Sq. Yd.	1417
*Deck Slab Repair (Partial)	Sq. Yd.	200
*Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	150
Bridge Deck Concrete Sealer	Sq. Ft.	3047
Longitudinal Joint Sealant	Foot	355
Bituminous Materials (Tack Coat)	Pound	319
Clearing, Special	L. Sum	1

*The quantity of deck slab repair is estimated. The engineer in the field shall determine the actual quantity and locations.



Expires 11-30-2022

04/30/2021

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	DRAWN - Anthony Y. Vinson	REVISED -
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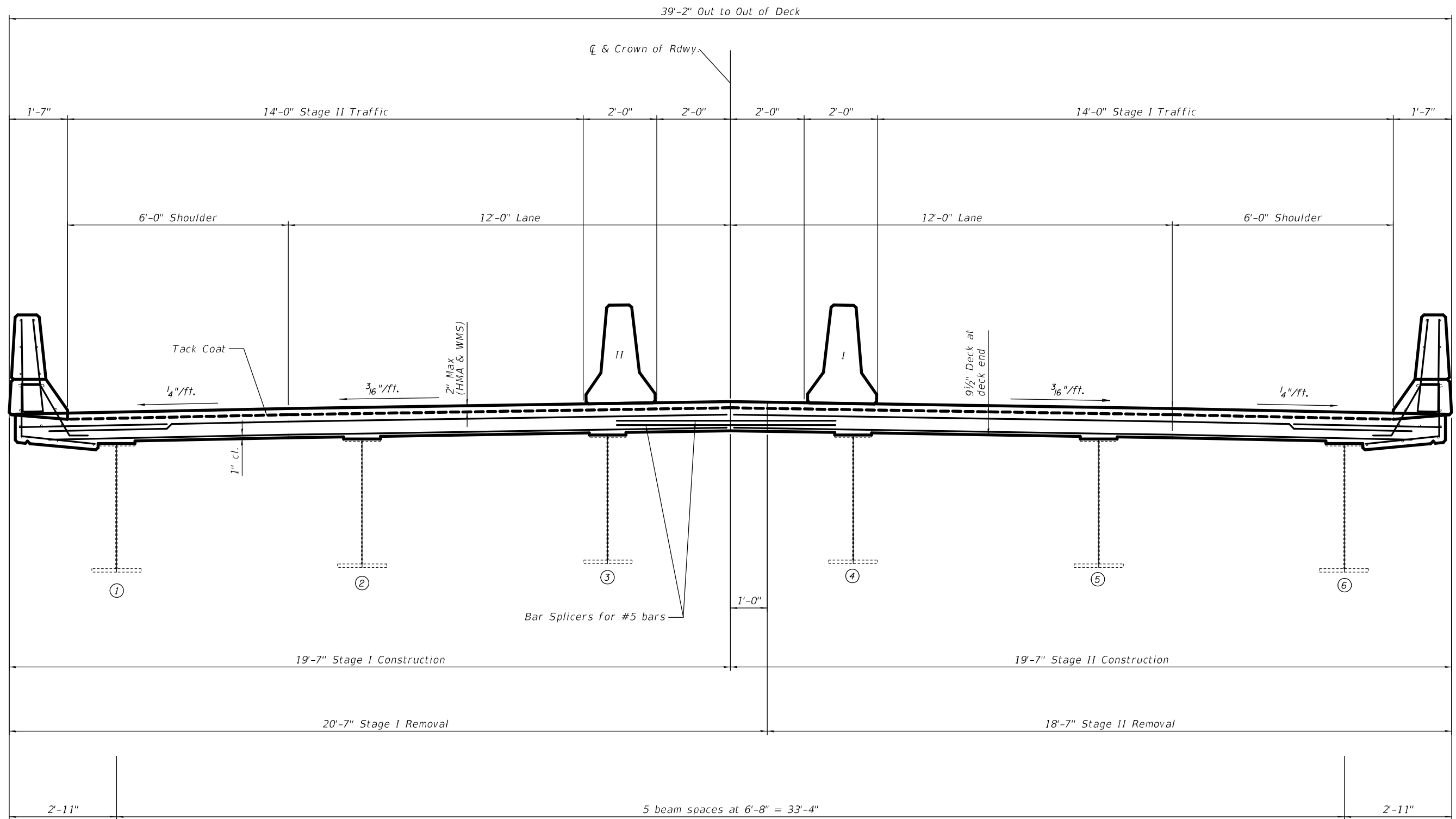
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN & ELEVATION (IL 15 over Silver Creek)
SN 082-0295**

SCALE: SHEET 1 OF 9 SHEETS STA. TO STA.

F.A.P. RTE. 817	SECTION 50RS-4	COUNTY ST. CLAIR	TOTAL SHEETS 37	SHEET NO. 29
CONTRACT NO. 76L14			ILLINOIS FED. AID PROJECT	

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(Looking West)

Note:

A tack coat, per Section 406, with a residual asphalt rate of 0.025 lb/ sq ft should be placed on top of the 1/2" thick Asphalt Sand Seal Protection Layer of the Waterproofing Membrane System, before the HMA surfacing is placed.

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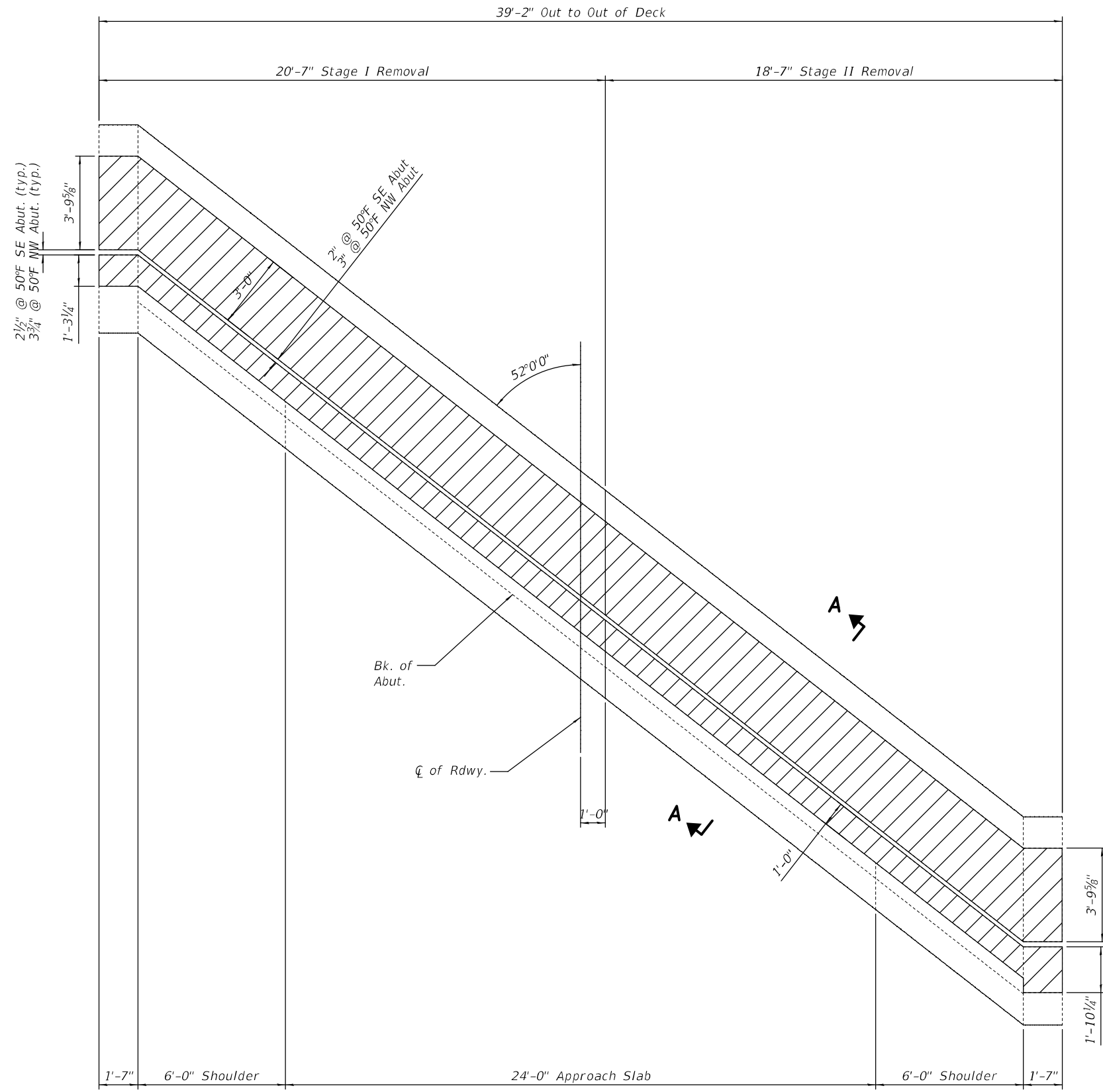
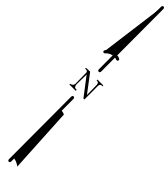
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DECK CROSS SECTION
SN 082-0295

SCALE: SHEET 2 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50RS-4	ST. CLAIR	37	30
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76L14	



CONCRETE REMOVAL

SE Abut shown (NW Abut similar except as noted)

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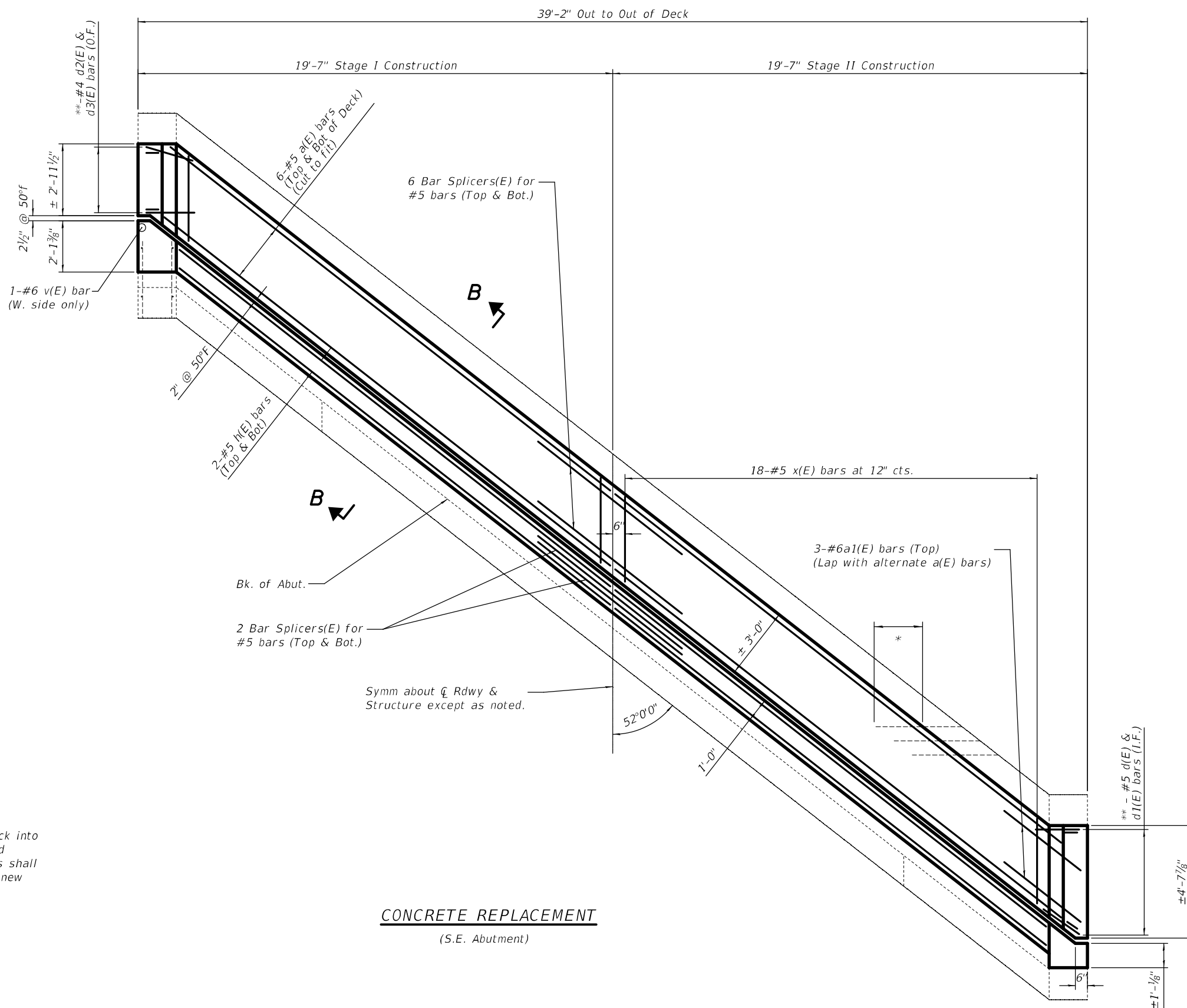
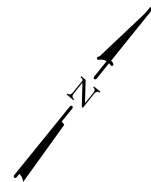
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PLOT DATE = 3/15/2021		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

JOINT REMOVAL
SN 082-0295

SCALE: SHEET 3 OF 9 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50RS-4	ST. CLAIR	37	31
CONTRACT NO. 76L14			ILLINOIS FED. AID PROJECT	



Note:

* Existing transverse bars extending from deck into removed area shall be cut allowing 2'-0" to extend into the removed area. In addition, these cut bars shall be cleaned, straighten, and incorporated into the new construction.

** 4 (west side), 6 (east side)

CONCRETE REPLACEMENT
(S.E. Abutment)

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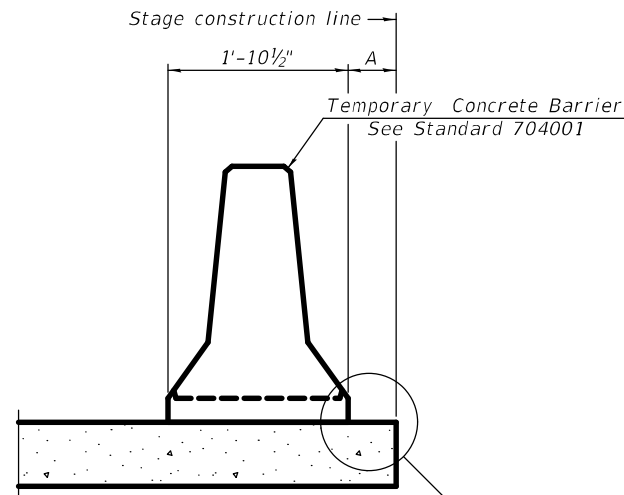
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**JOINT REPLACEMENT (S.E. Abutment)
SN 082-0295**

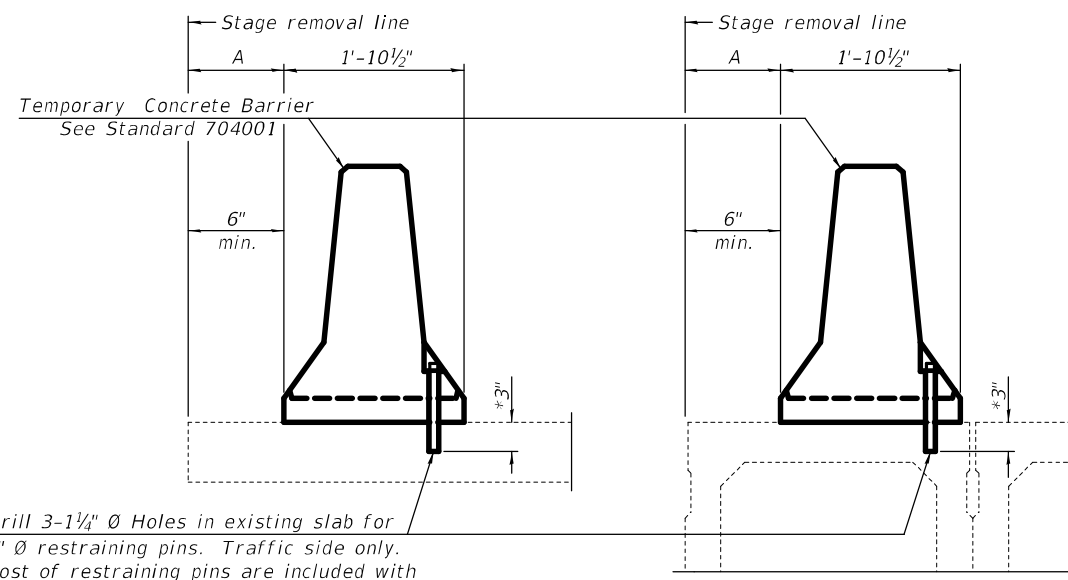
SCALE: SHEET 4 OF 10 SHEETS STA. TO STA.

F.A.P. RTE. 817	SECTION 50RS-4	COUNTY ST. CLAIR	TOTAL SHEETS 37	SHEET NO. 32
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76L14	



When "A" is 3'-1" or less, the temporary concrete barrier shall be restrained to the new slab according to Detail I, II or III. No restraint is required when "A" is greater than 3'-1".

NEW SLAB OR NEW DECK BEAM

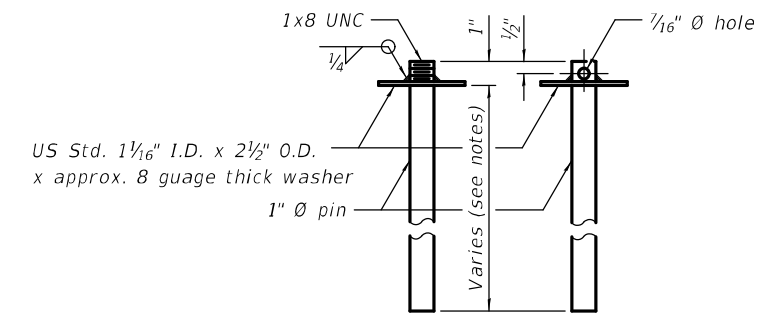


Drill 3-1/4" Ø Holes in existing slab for 1" Ø restraining pins. Traffic side only. Cost of restraining pins are included with Temporary Concrete Barrier. No restraint is required when "A" is greater than 3'-1".

EXISTING SLAB

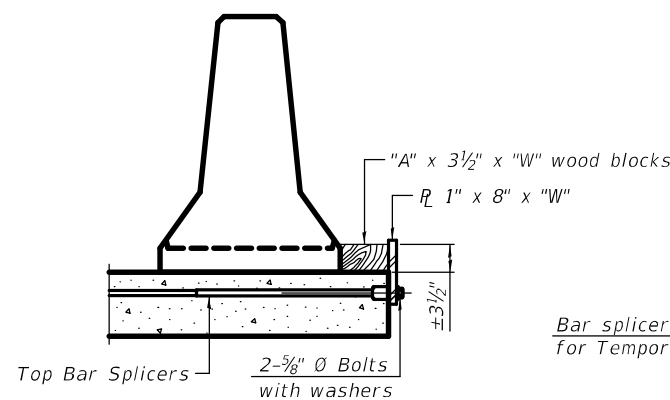
* When hot-mix asphalt wearing surface is present, embedment shall be 3" plus the wearing surface depth.

EXISTING DECK BEAM

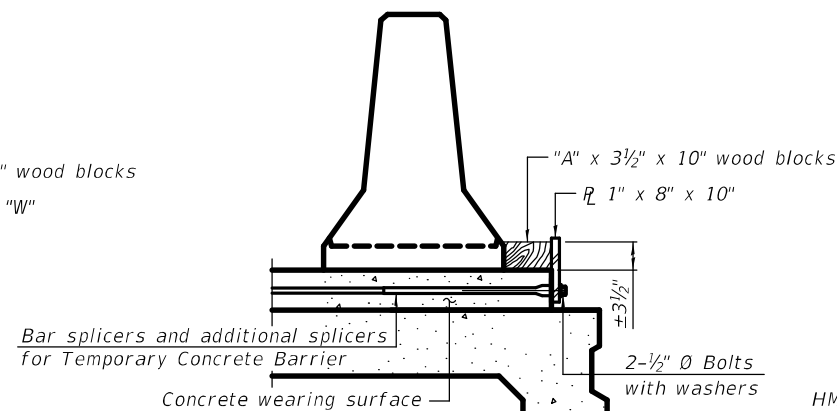


RESTRAINING PIN

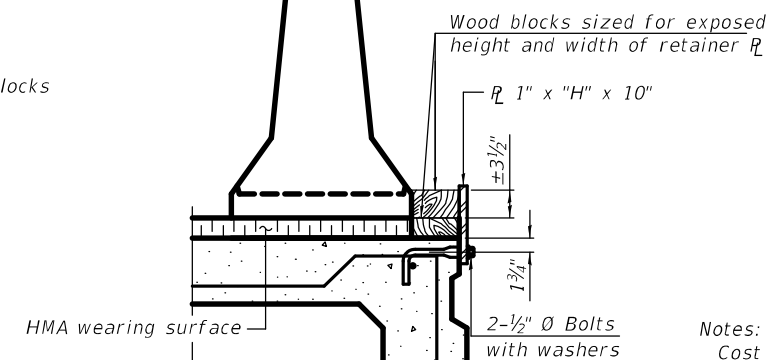
SECTIONS THRU SLAB OR DECK BEAM



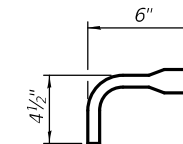
DETAIL I



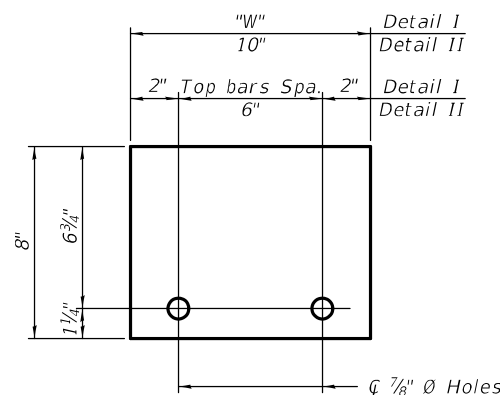
DETAIL II



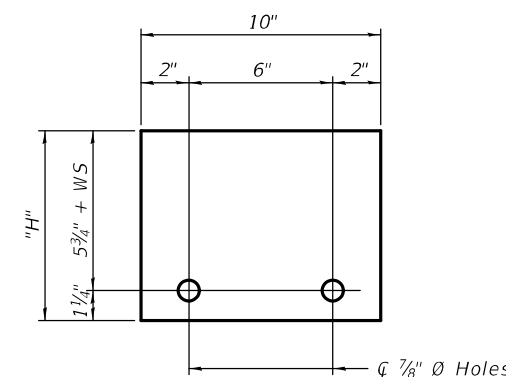
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

Notes:
 Cost of retainer assembly is included with Temporary Concrete Barrier.
 A retainer assembly shall be located at the approximate \bar{c} of each temporary concrete barrier.
 The retainer plate shall not be removed until the concrete on the adjacent stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.
 When the 'A' dimension is less than 1 1/2", the wood block shall be omitted and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate the shear key clamping device.

Detail I - Installation for a new bridge deck or bridge slab.
Detail II - Installation for a new deck beam with an initial concrete wearing surface. Additional bar splicers shall be provided at 6'-0" centers and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete wearing surface.
Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

R-27 2-17-2017

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION
STRUCTURE NO. 082-0295**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
817	50RS-4	ST. CLAIR	37	37
ILLINOIS FED. AID PROJECT			CONTRACT NO. 76L14	