

F.A.P. RTE.		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46		(2,2-1)RS-2	LASALLE	19	1

CONTRACT NO. 66531

D-93-013-05

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

F.A.P. ROUTE 46 (IL. 251)
SECTION (2,2-1)RS-2
PROJECT F-0046(025)
LASALLE COUNTY

C - 93 - 005 - 05

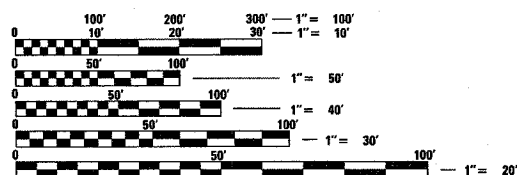
IL 251 TO 0.6 MILES SOUTH OF IL 71 (GAP CH 23 INTERSECTION,
CONCRETE PAVEMENT UNDER I-39 OVERPASS, AND IL 71/351 INTERSECTION).
3P RESURFACING & COLD MILLING

INDEX OF SHEETS

- 1 COVER SHEET, STANDARDS, & INDEX OF SHEETS
- 2 GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 TYPICAL SECTIONS
- 5 SCHEDULES OF QUANTITIES
- 6-16 PLAN SHEETS
- 17-19 DETAILS

STANDARDS

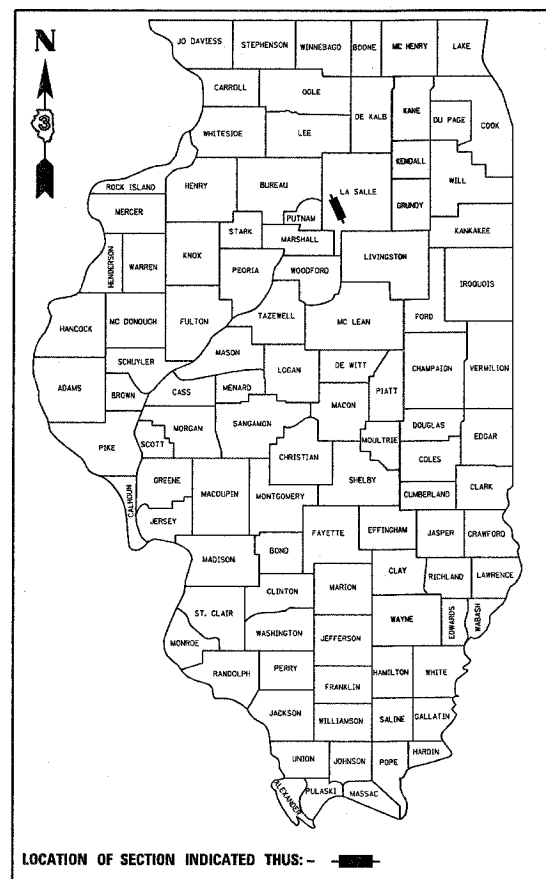
- 000001-05 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 406201-01 MAILBOX TURNOUT
- 442201-03 CLASS C AND D PATCHES
- 482011-03 BIT. SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
- 630001-07 STEEL PLATE BEAM GUARDRAIL
- 630201-05 PCC/BITUMINOUS STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-04 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 635006-02 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-01 REFLECTOR MARKER AND MOUNTING DETAILS
- 701006-02 OFF ROAD OPERATION, 2L, 2W, 4.5 m (15') TO 600 mm (24") FROM PAVEMENT EDGE
- 701011-01 OFF ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701301-02 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-01 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701311-02 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701336-04 LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS ≥ 45 MPH
- 701901 TRAFFIC CONTROL DEVICES
- 781001-02 TYPICAL APPLICATIONS, RAISED REFLECTIVE PAVEMENT MARKERS



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

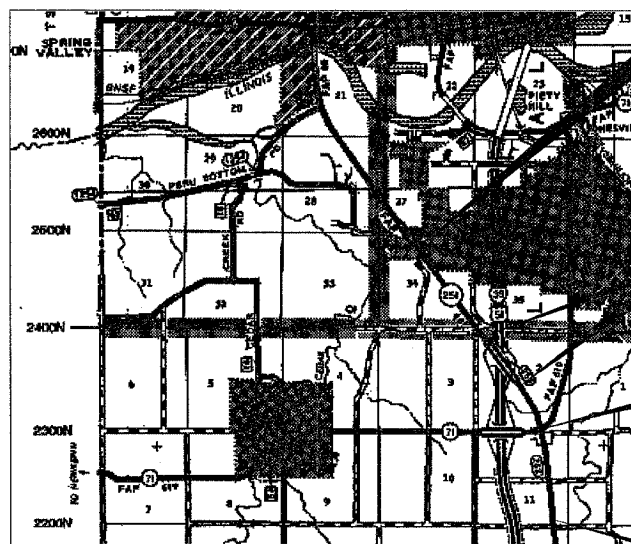
DISTRICT 3 NO. (815) 434-6131
PROJECT ENGINEER: D. BROVIAK
UNIT CHIEF: MARK JONES
TOWNSHIP: LASALLE/PERU/EDEN
CONTRACT NO. 66531



FUNCTIONAL CLASSIFICATION
OTHER PRINCIPAL ARTERIAL (IL RIVER BRIDGE TO RICHARD MOYLE RD.)
2007 ADT = 12,800
P.V. = 94.8% S.U. = 3.3% M.U. = 1.9%

MINOR ARTERIAL (RICHARD MOYLE RD. TO I-39)
2007 ADT = 4,800
P.V. = 93.6% S.U. = 3.5% M.U. = 2.9%

MAJOR COLLECTOR (I-39 TO SOUTH OF IL 71)
2007 ADT = 2,850
P.V. = 93.9% S.U. = 4.9% M.U. = 1.2%



LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 15090 FT. = 2.86 MI.
NET LENGTH = 10989.5 FT. = 2.08 MI.

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OF THE STATE OF ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED: 20
Maureen Anderson
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
 May 9, 20 08
Eric E. Harn
ENGINEER OF DESIGN AND ENVIRONMENT
 May 9, 20 08
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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CONTRACT NO. 66531

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(2,2-1RS-2	LASALLE	19	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

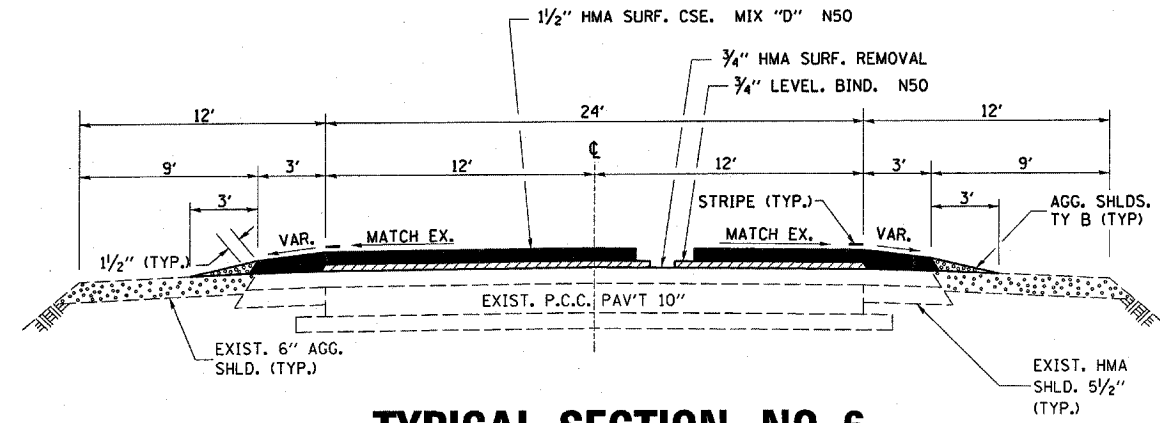
SUMMARY OF QUANTITIES		80% FED 20% STATE	
CODE NO.	ITEM	CONSTRUCTION CODE: 1000	
		UNIT	TOTAL QUANTITY
20400800	FURNISHED EXCAVATION	CU YD	9
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	5,980
40600300	AGGREGATE (PRIME COAT)	TON	150
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	12
40600895	CONSTRUCTING TEST STRIP	EACH	1
40600982	<i>HOT-MIX ASPHALT</i> SURFACE REMOVAL - BUTT JOINT	SQ YD	1,028
40600990	TEMPORARY RAMP	SQ YD	127
40800050	INCIDENTAL <i>HOT-MIX ASPHALT</i> SURFACING	TON	53
44000152	<i>HOT-MIX ASPHALT</i> SURFACE REMOVAL, 3/4"	SQ YD	16,107
44000155	<i>HOT-MIX ASPHALT</i> SURFACE REMOVAL, 1 1/2"	SQ YD	19,348
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	60
48101200	AGGREGATE SHOULDERS, TYPE B	TON	939
* 63000000	STEEL PLATE BEAM GUARD RAIL, TYPE A	FOOT	300
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2
63200310	GUARDRAIL REMOVAL	FOOT	350
67100100	MOBILIZATION	L SUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	4,431
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	33,899
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	1,934
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	487
• 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	156
• 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	33,899
• 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	1,934
• 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1,250
• 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	840
• 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	56
• 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	229
• 78200410	GUARDRAIL MARKERS, TYPE A	EACH	5
• 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	8
• 78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	229
40603335	<i>HOT-MIX ASPHALT</i> SURFACE COURSE, MIX "D", N50	TON	3,425
40600525	LEVELING BINDER (HAND METHOD), N50	TON	20
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	1,407
Z0005215	BITUMINOUS STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL	SQ YD	233

• SPECIALTY ITEM

ILLINOIS DEPARTMENT OF TRANSPORTATION

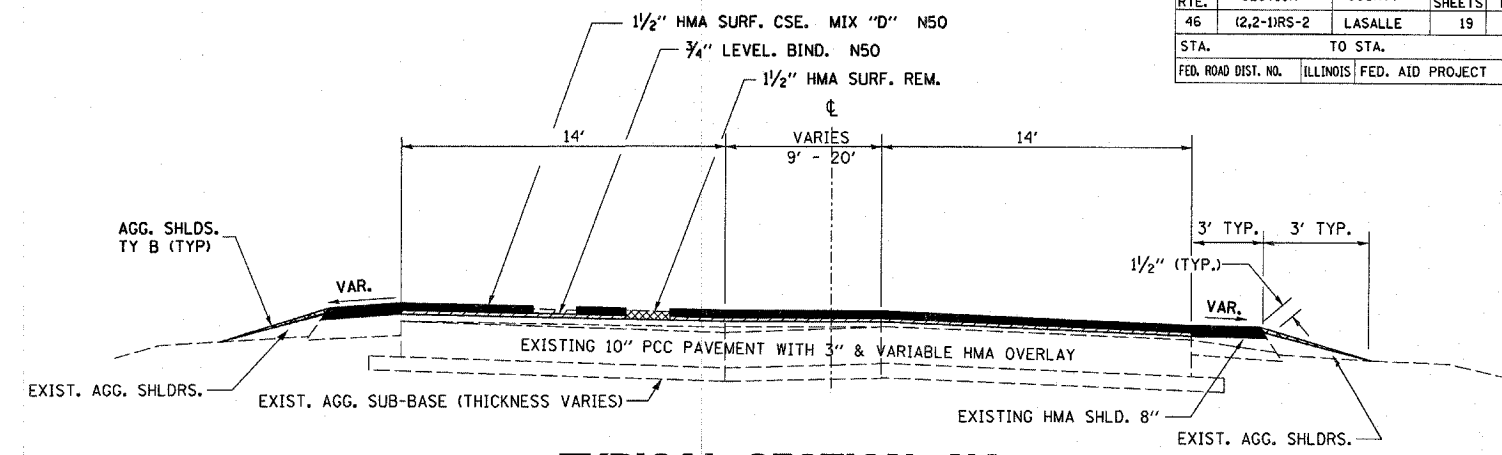
SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	I2-2-IRS-2	LASALLE	19	4
STA.	TO STA.			
	ILLINOIS		FED. AID PROJECT	



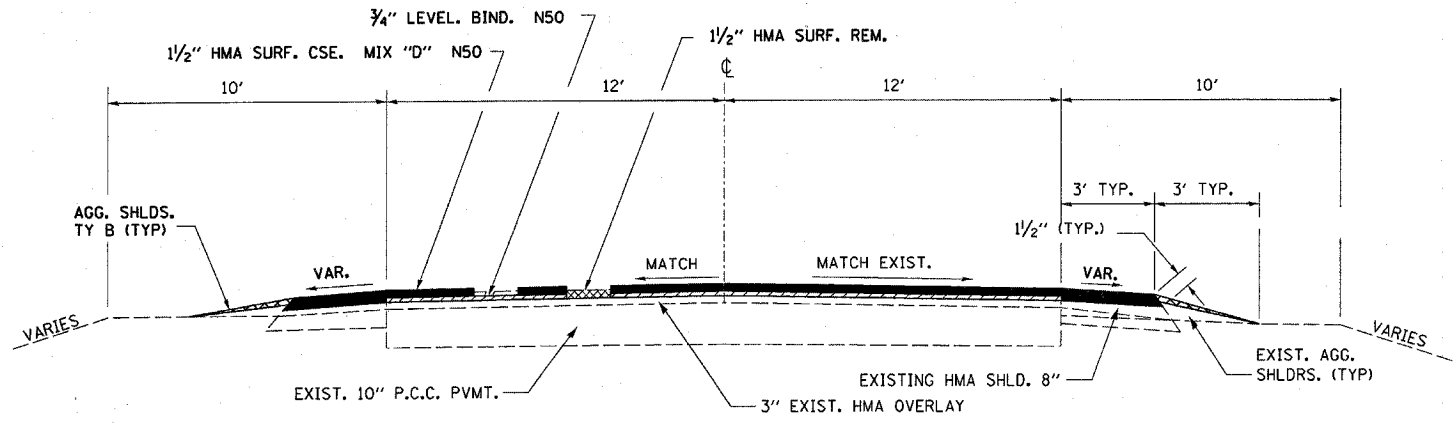
TYPICAL SECTION NO. 6

STA. 331+60 TO STA. 392+00
 OMISSION: STA. 392+00 TO STA. 429+31.5 (I-39)



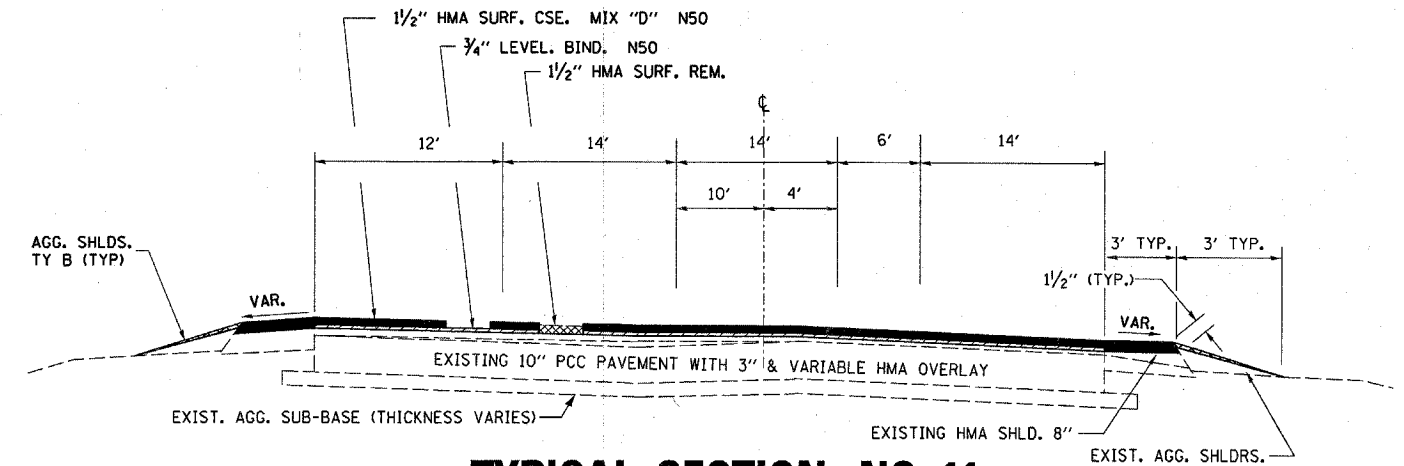
TYPICAL SECTION NO. 10

STA. 447+60 TO STA. 451+63



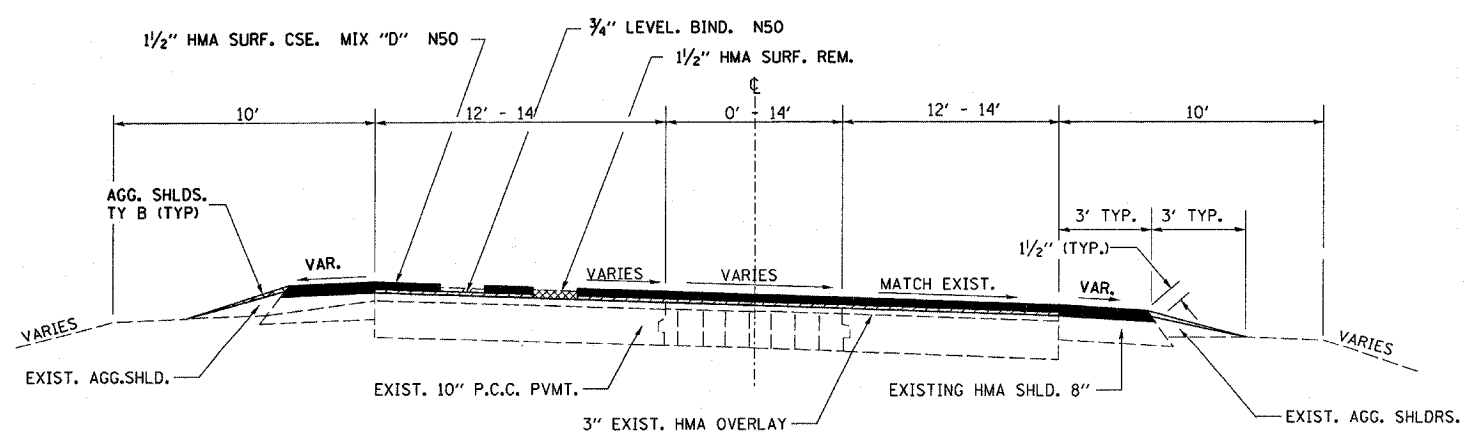
TYPICAL SECTION NO. 7

STA. 429+31.5 TO STA. 441+47
 STA. 468+30.0 TO STA. 482+50



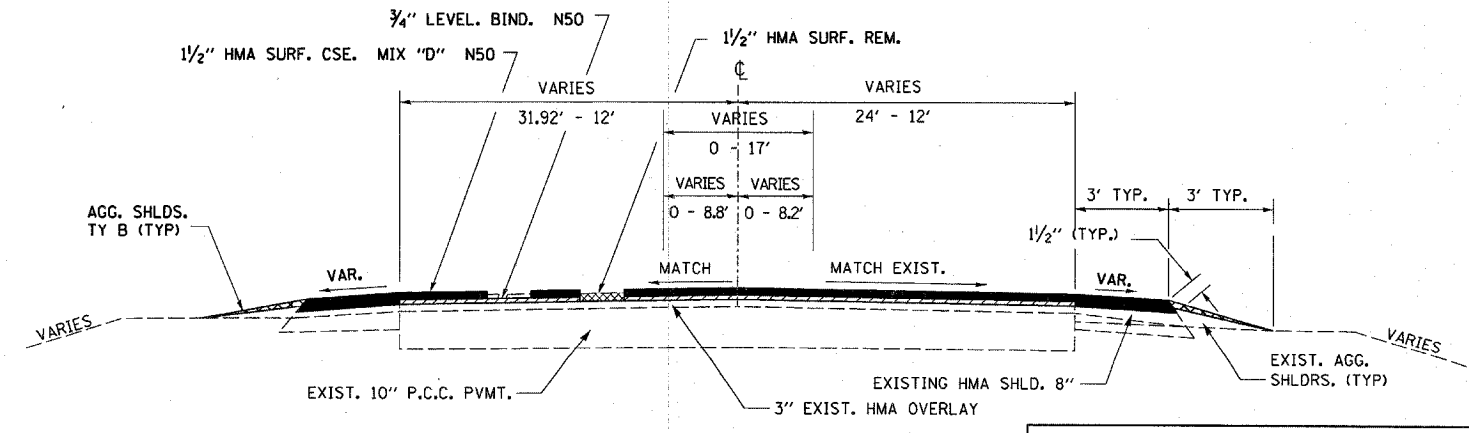
TYPICAL SECTION NO. 11

STA. 451+63 TO STA. 461+89
 OMISSION: STA. 451+63 TO STA. 457+91.94 (IL 351/71)



TYPICAL SECTION NO. 9

STA. 441+47 TO STA. 447+60
 STA. 461+89 TO STA. 468+30



TYPICAL SECTION NO. 12

STA. 457+91.94 TO STA. 468+50

ILLINOIS DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(2,2-1)RS-2	LASALLE	19	5
STA. TO STA.				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

MAINLINE SCHEDULE

STA. TO STA.	HMA SURF.	LEVEL BINDER (MM)	LEVEL BINDER (HM)	BIT. SURF. REM. BUTT JT.	BIT.SURF REM 1 1/2	BIT.SURF REM 3/4	MIX FOR JTS, CRACKS, & FLGWYS	BIT. MAT'LS (PR CT)	AGG. (PR CT)	TEMP RAMPS	FURN EXCAV	AGG SHLDR TY B	
	TONS	TONS	TONS	SO YD	SO YD	SO YD	TONS	GAL	TONS	SO YD	CU YD	TONS	
INTERSECTION OMISSION													
331+60	392+00	1,691.2	676.5	10.1	200.0		16106.7	6.0	2,899.2	72.5	20.0	515.9	
CONCRETE PAVEMENT OMISSION													
429+31.5	440+25	316.4	127.6	1.9	200.0		3,766.5	1.1	544.3	13.6	20.0	93.4	
440+25	445+37	167.7	69.5	1.0			1,996.0	0.6	292.1	7.3		43.7	
445+37	447+60	92.7	40.1	0.6			1,103.6	0.3	164.7	4.1		19.0	
447+60	451+63	193.3	85.3	1.2	200.0		2,301.2	0.7	346.6	8.7	20.0	15.0	
INTERSECTION OMISSION													
455+32	457+50	133.8	61.0	0.8	200.0		1,453.3	0.5	243.7	6.1	20.0	18.6	
457+50	460+00	132.5	60.7	0.8			1,444.4	0.5	241.8	6.0		21.4	
460+00	462+50	111.4	48.7	0.7			1,222.2	0.4	198.9	5.0		21.4	
462+50	465+00	92.8	39.4	0.6			1,000.0	0.3	163.3	4.1		21.4	
465+00	468+78	109.5	44.2	0.7			1,260.0	0.4	188.4	4.7		32.3	
468+78	482+50	384.2	153.7	2.3	200.0		3,658.7	1.4	658.6	16.5	20.0	117.2	
TOTALS		3,425	1,407	20	1,000	19,206	16106.7	12	5,942	149	100	15	939

ENTRANCES AND SIDE ROAD SCHEDULE

STA.	ENT. TYPE	SIDE	MAT'L TYPE	BIT. SURF. REM. BUTT JT.	BIT. SURF. REM. 1 1/2"	INCIDENTAL BIT. SURF.	BIT. MAT'LS (PRIME COAT)	AGG. PRIME COAT	TEMP RAMPS	FURN EXCAV
				SO YD	SO YD	TONS	GAL	TON	SO YD	CU YD
337+00	SR	RT	BIT		8.9	17.7	12.7	0.3		3.0
464+00	SR	RT	BIT	14.0	66.7	17.7	12.7	0.3	13.3	3.0
464+00	SR	LT	BIT	14.0	66.7	17.7	12.7	0.3	13.3	3.0
TOTALS				28	142	53	38	1	27	9

CLASS D PATCHES TY III, 13"

STA.	SIDE	SO YD
350+00	LT	20
350+00	RT	20
371+50	LT	20
TOTAL		60

PAVEMENT MARKINGS SCHEDULE

STA. TO STA.	THERMOPLASTIC PAVEMENT MARKINGS							WORK ZONE PAV'T MARK REM	SHORT TERM PAV'T MARK	TEMPORARY PAVEMENT MARKINGS			RAISED REFL PAVT MARK	RAISED REFL PAVT MARK REM
	4" WHT	4" YELL	6" YELL	8" WHT	12" YELL	24" WHT	LTRS & SYMBLS			4" WHT	4" YELL	6" YELL		
	FT	FT	FT	FT	FT	FT	SO FT			FT	FT	FT		
331+60	337+00	1,080	715	135.0				17.8	162.0	1,080	715	135.0	7	7
337+00	385+00	9,600		1200.0				158.4	1,440.0	9,600	0	1200.0	60	60
385+00	392+00	1,400	700	175.0				23.1	210.0	1,400	700	175.0	9	9
429+31	442+00	2,538	2,536					83.6	760.0	2,538	2,536	0.0	16	16
442+00	451+67	1,934	3,868		340.0	46.8		71.5	650.0	1,934	3,868	0.0	56	56
455+32	465+55	2,046	4,092		1250.0	500.0	56.0	77.0	700.0	2,046	4,092	0.0	60	60
465+55	482+50	3,390		423.8				55.9	508.5	3,390	0	423.8	21	21
SUBTOTALS		21,988.0	11,911.0	1,934	1,250	840	56	156	487.4	4,430.5	21,988.0	11,911.0	1,934	229
TOTALS		33,899		1,934	1,250	840	56	156	487	4,431	33,899	1,934	229	229

NOTE: THE FOLLOWING NO PASSING ZONES SHOULD BE FIELD VERIFIED BY THE ENGINEER PRIOR TO RESURFACING.

- NB - STA. 280+00 TO STA. 297+00
- NB - STA. 331+60 TO STA. 337+00
- NB - THE PAINTED MEDIAN TO STA. 429+31

- SB - STA. 253+00 TO STA. 280+00
- SB - STA. 280+00 TO STA. 286+00
- SB - STA. 429+31 TO THE PAINTED MEDIAN

- SB - STA. 331+60 TO STA. 332+75
- SB - STA. 385+00 TO STA. 392+00

A BINDER SEALER SHALL BE APPLIED ON ALL BITUMINOUS PAVEMENTS OVER 60 DAYS OLD WHERE THE NEW THERMOPLASTIC MATERIAL IS TO BE INSTALLED. THE BINDER SEALER MATERIAL SHALL BE APPLIED AS RECOMMENDED BY THE MANUFACTURER OF THE THERMOPLASTIC AND IN SUFFICIENT QUANTITIES TO ENTIRELY COVER THE SURFACE ON WHICH THE THERMOPLASTIC IS TO BE LAID. NO ADDITIONAL COMPENSATION WILL BE ALLOWED, THE COST OF THE BINDER SEALER SHALL BE INCLUDED IN THE UNIT BID PRICE OF THERMOPLASTIC PAVEMENT MARKING OF THE WIDTH APPLIED.

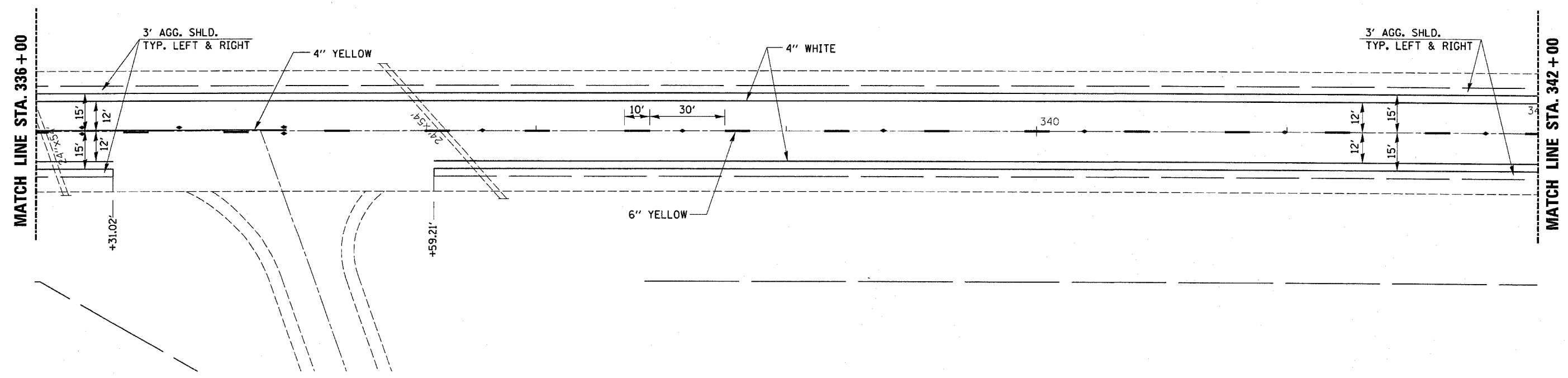
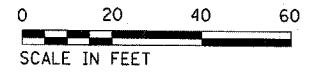
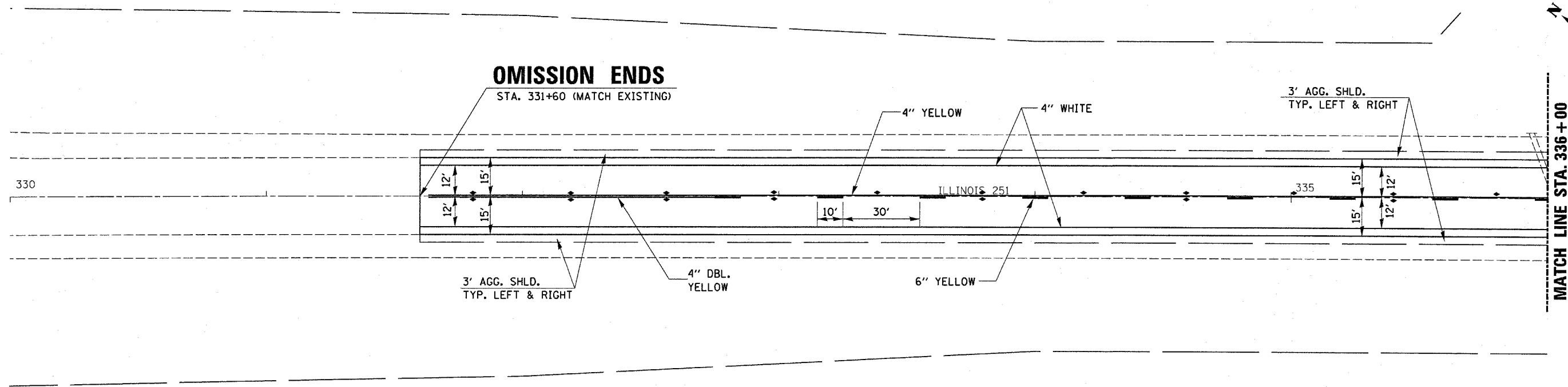
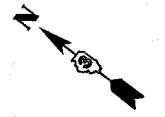
GUARDRAIL

STA.	SIDE	SPBGR TY A	TBT TY 1 SP (FL)	GUARDRAIL MARKERS TY A	BIT STAB 6" @ SPBGR	GUARDRAIL REM.
			EA	EA	SO YD	FT
442+50 TO 445+50	RT	300	1	4	233	325
442+50	LT		1	1		25
TOTALS		300	2	5	233	350

ILLINOIS DEPARTMENT OF TRANSPORTATION

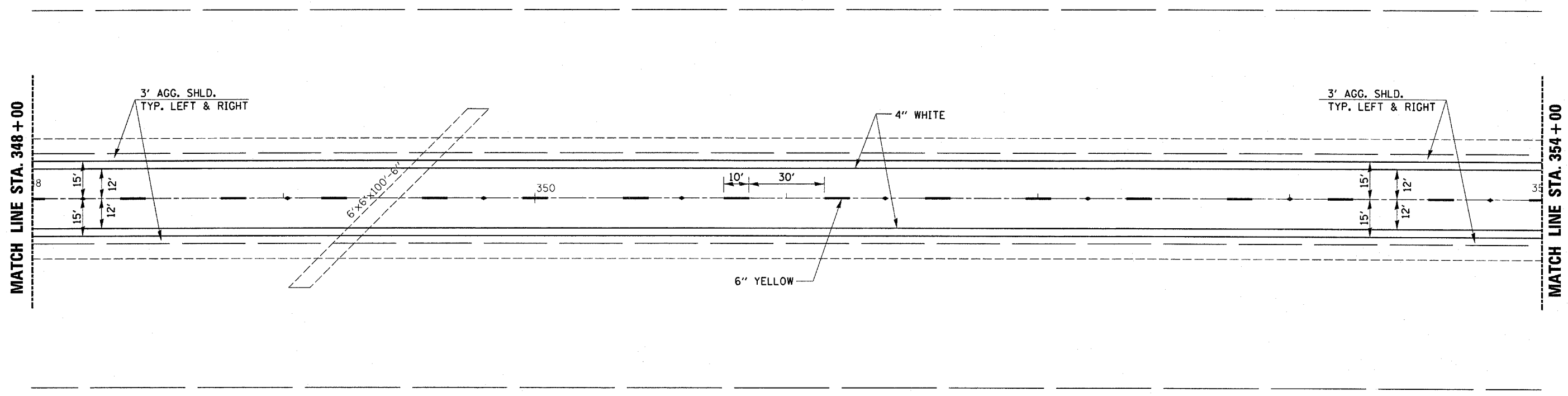
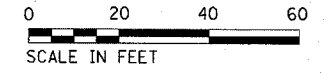
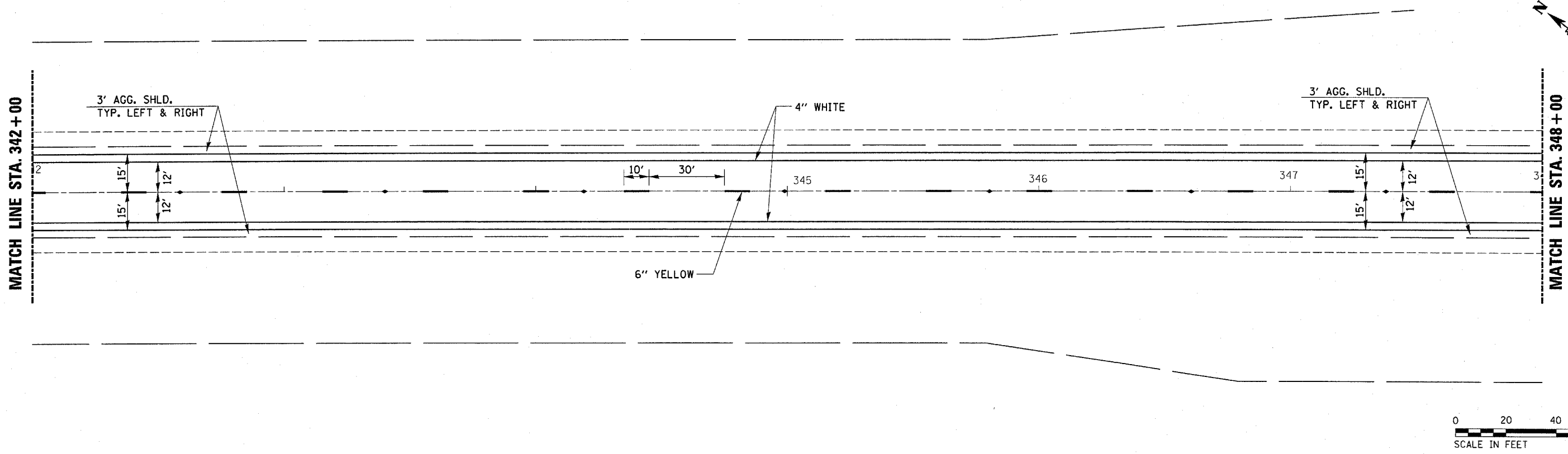
SCHEDULES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(2,2-1)RS-2	LASALLE	19	6
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

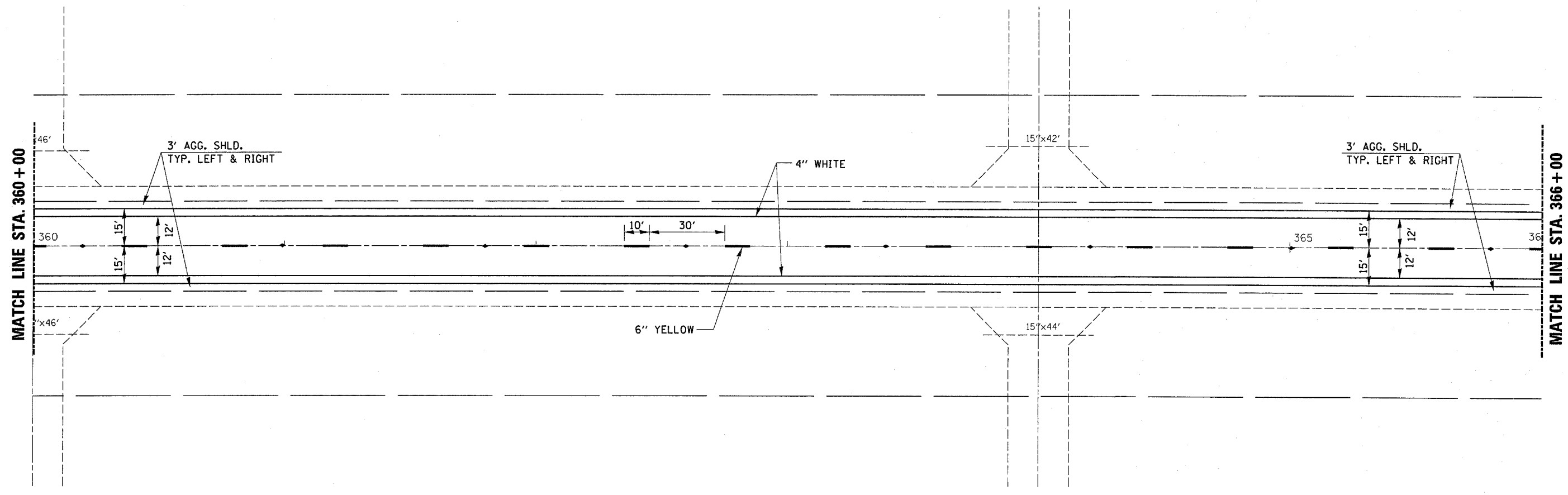
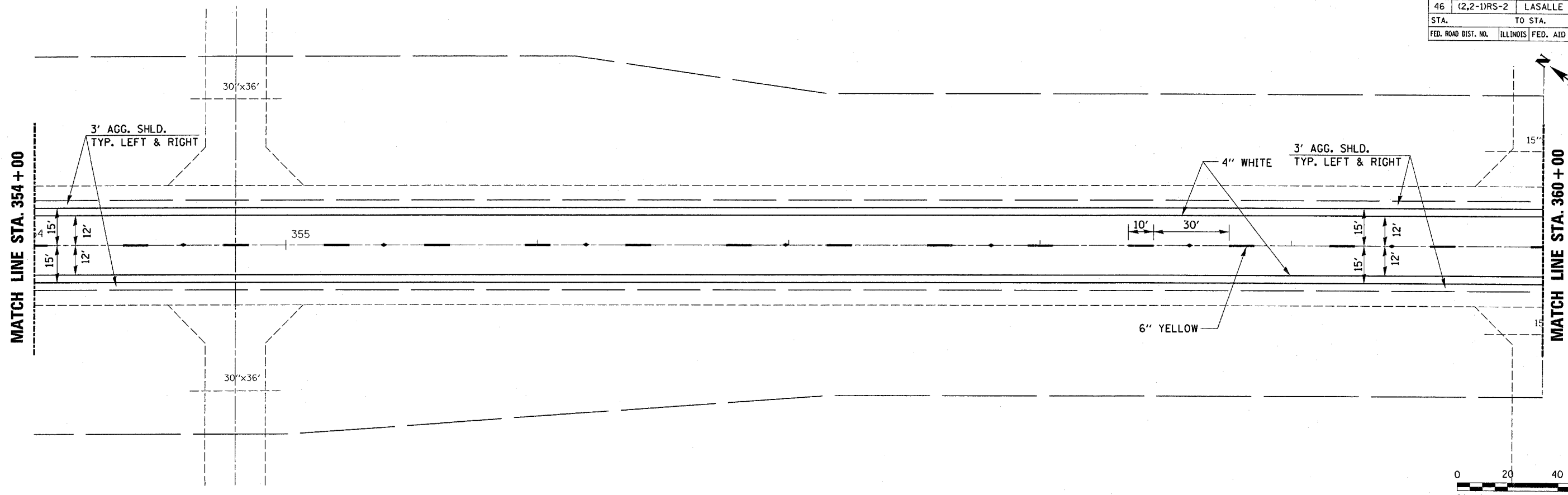


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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

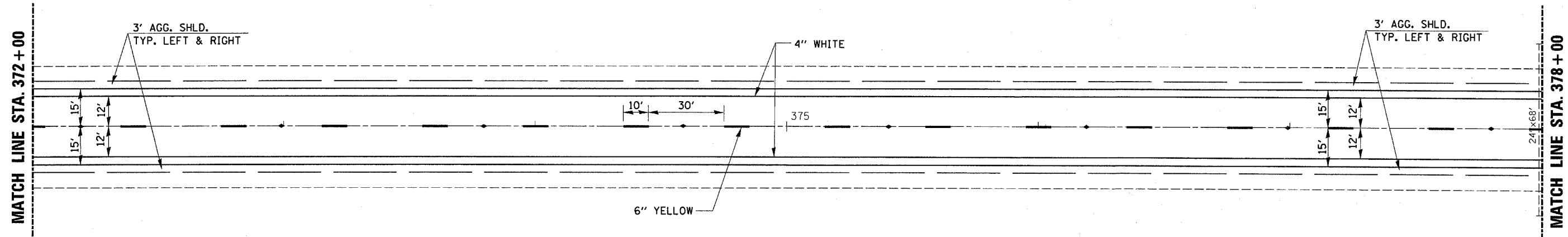
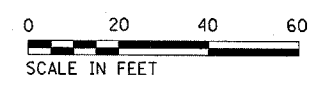
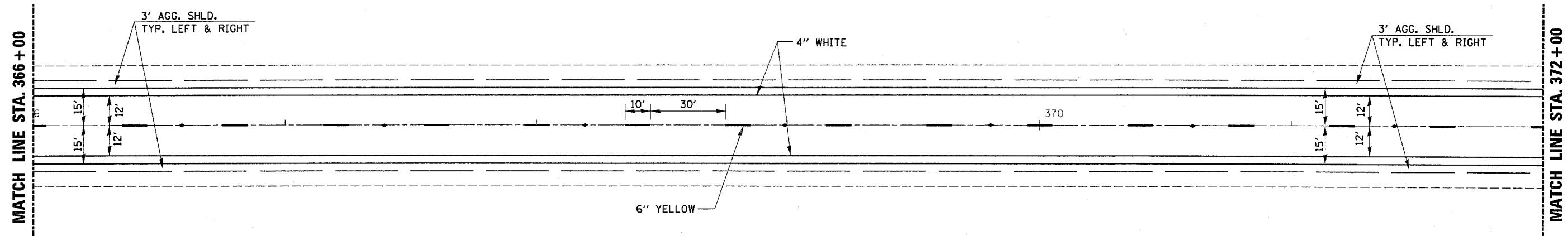
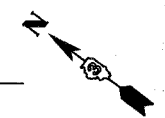


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



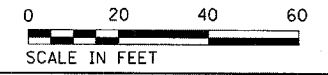
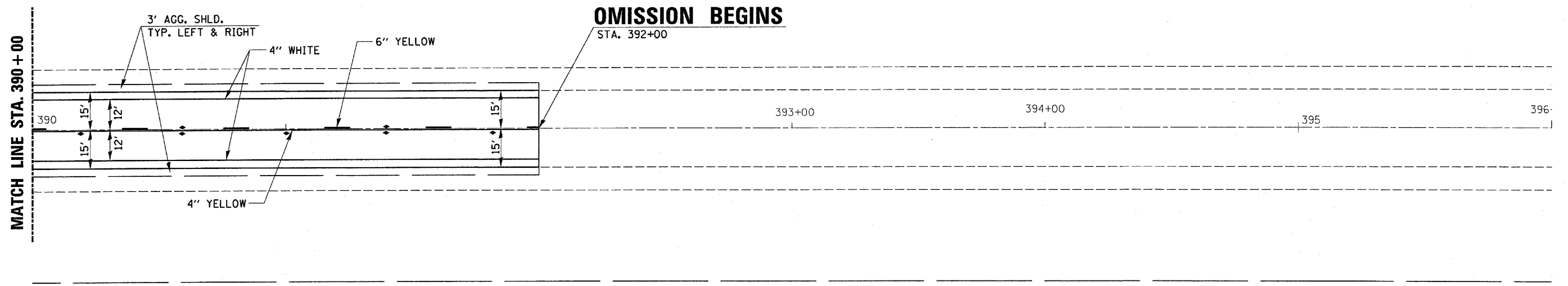
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

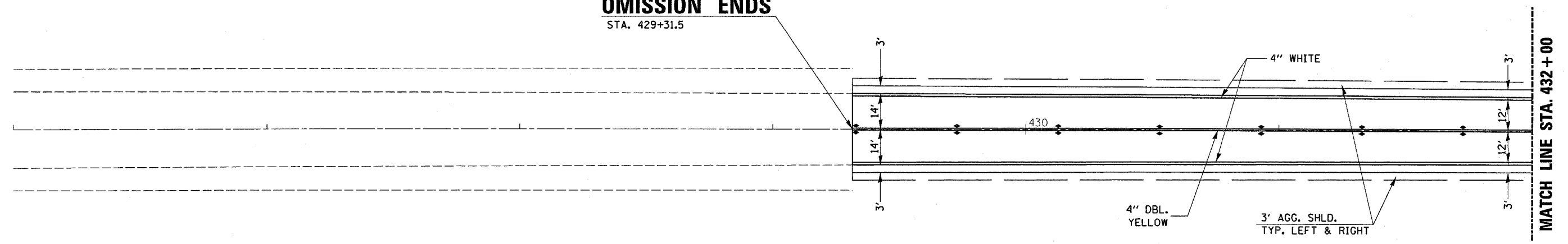


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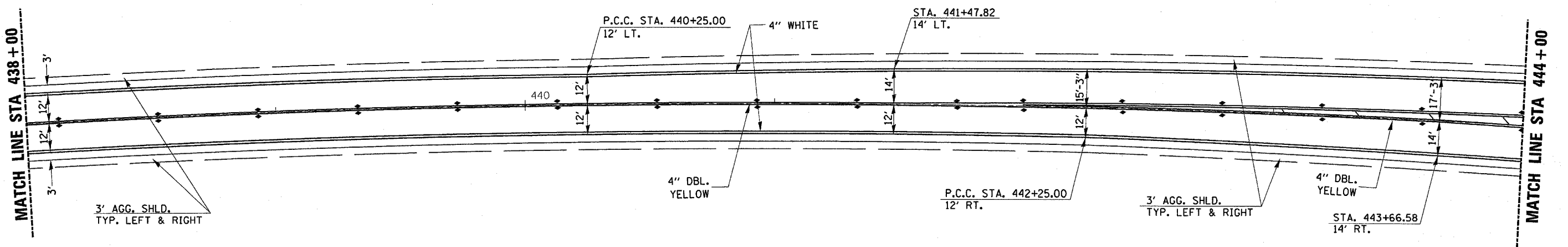
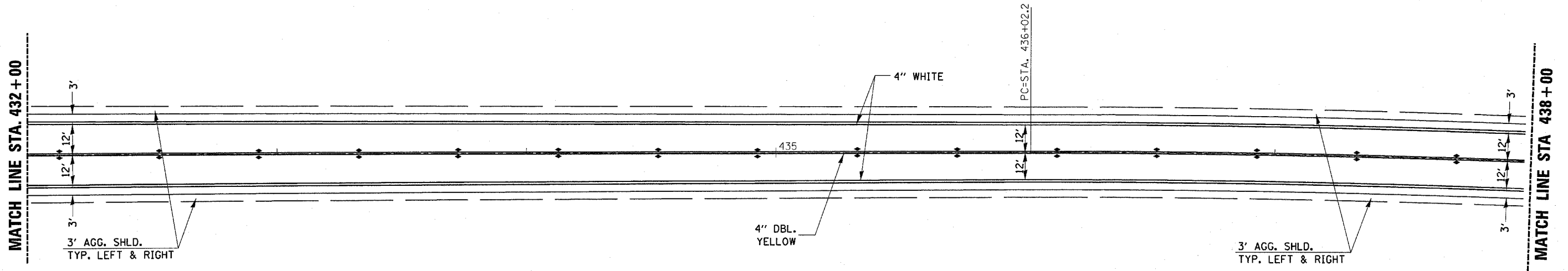
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46	(2,2-1)RS-2	LASALLE	19	11
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



OMISSION ENDS
STA. 429+31.5

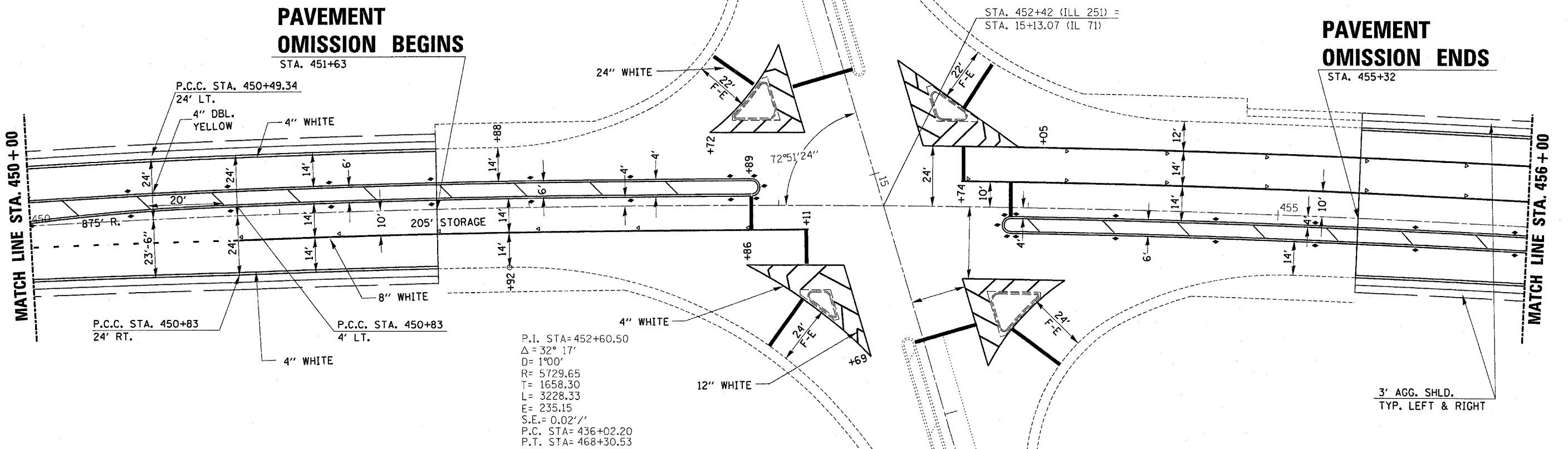
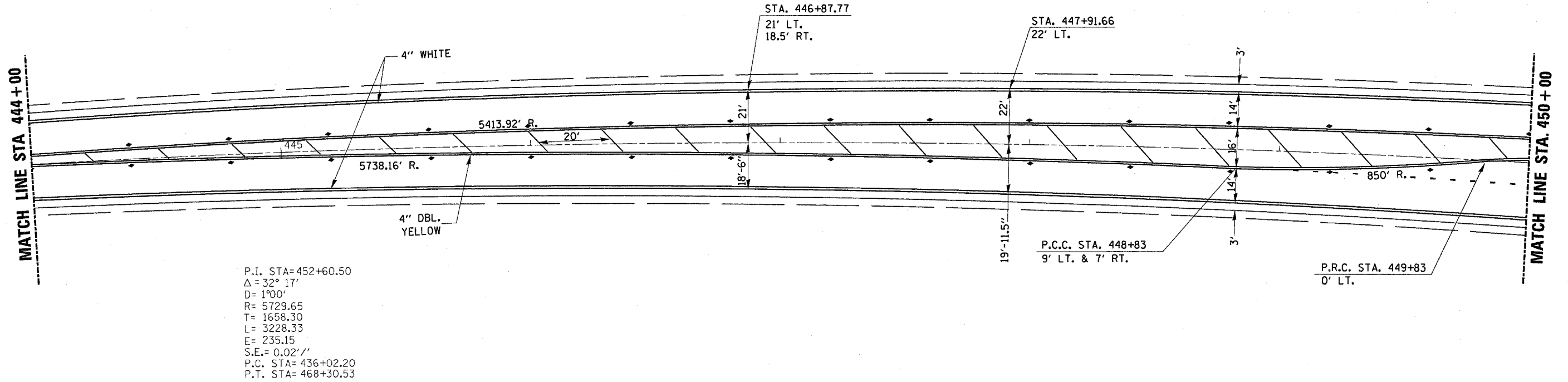


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	12,2-1RS-2	LASALLE	19	12
STA. TO STA.		ILLINOIS FED. AID PROJECT		



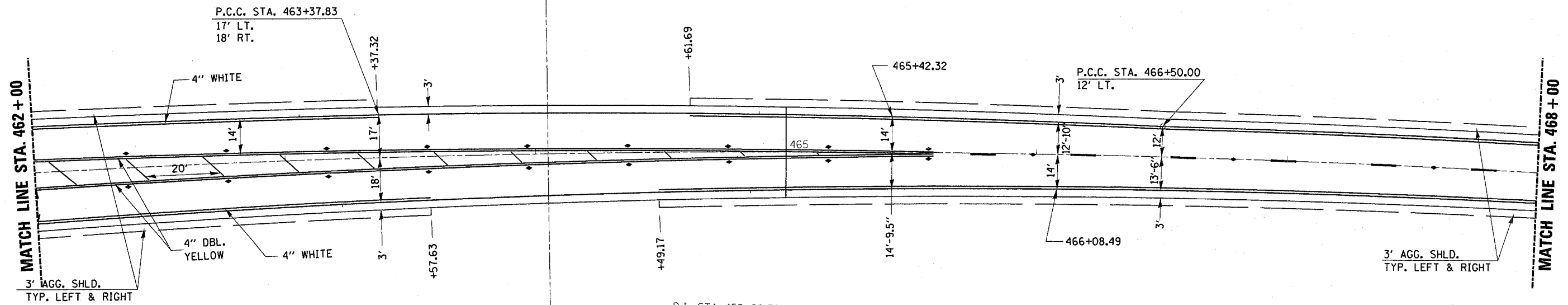
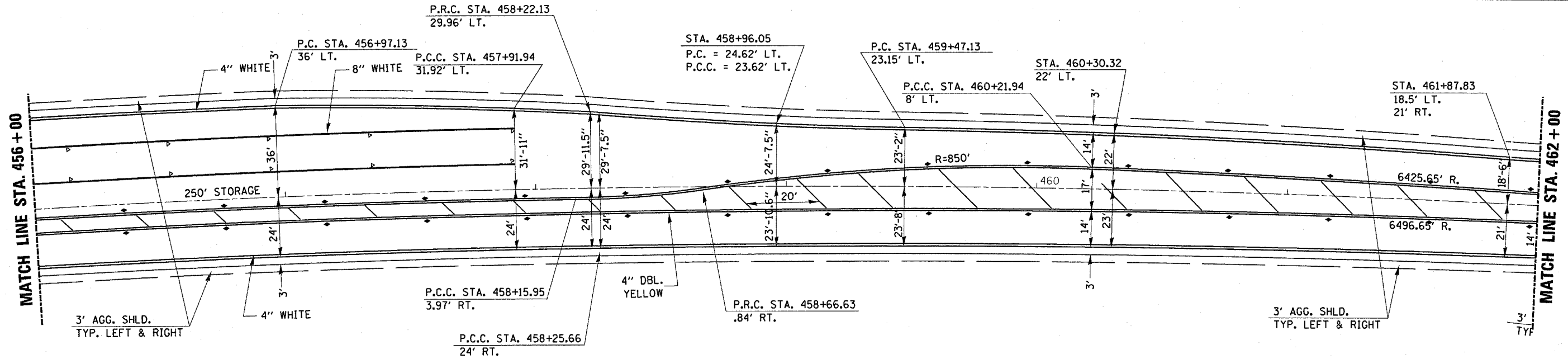
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(2,2-1)RS-2	LASALLE	19	13
STA. 444+00		TO STA. 456+00		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

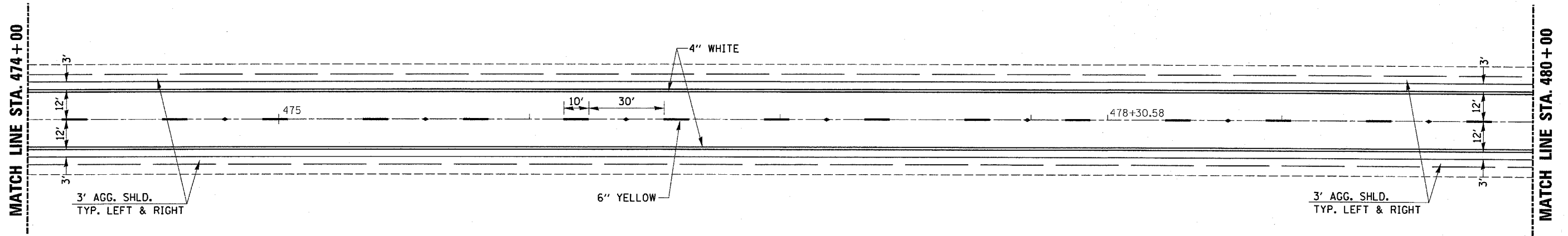
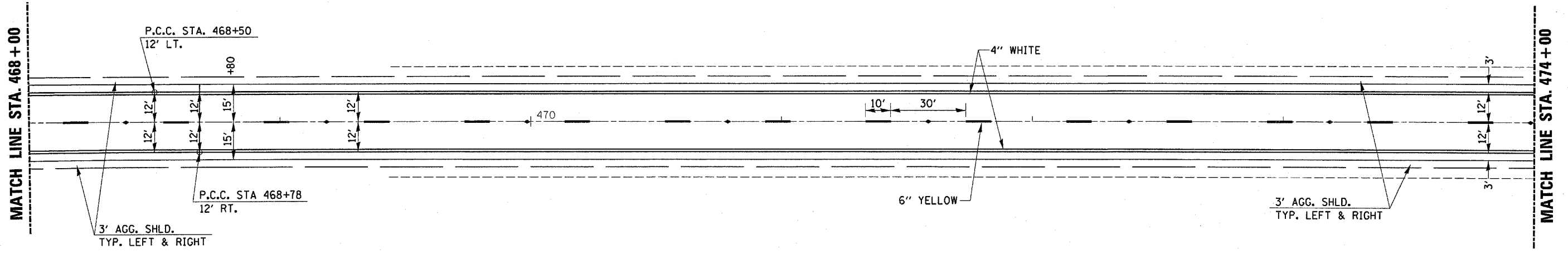


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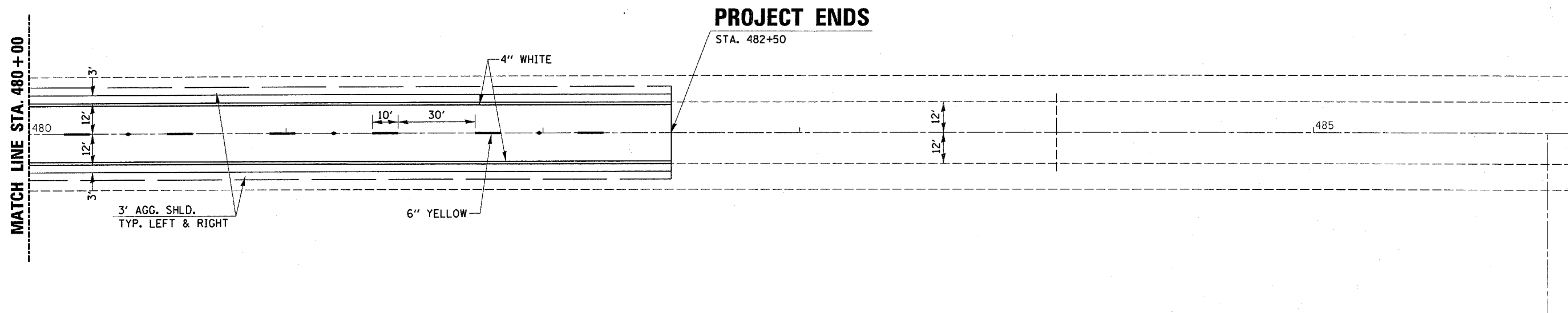
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	



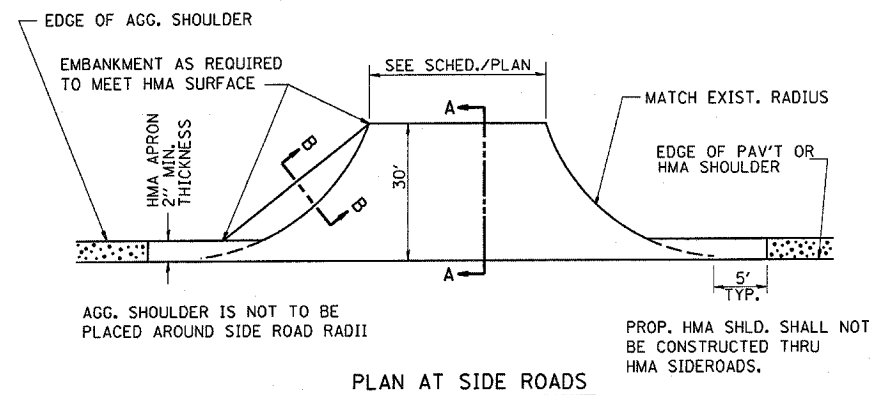
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46	(2,2-1)RS-2	LASALLE	19	15
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



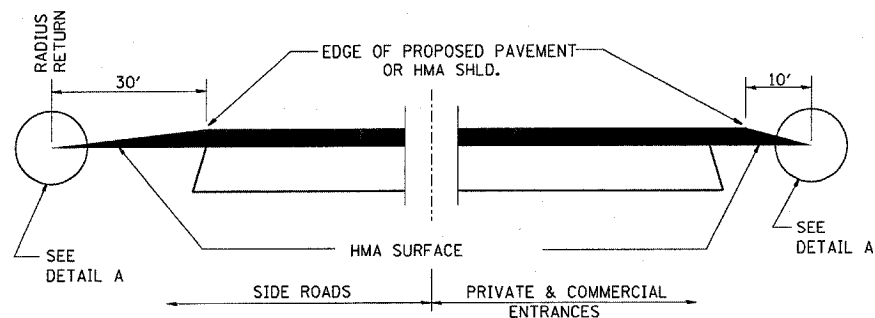
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46	(2,2-1)RS-2	LASALLE	19	16
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



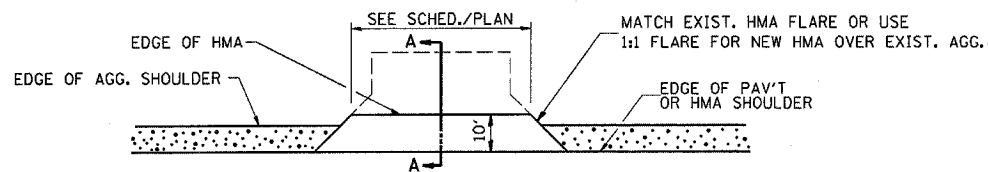
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46	(2,2-1)RS-2	LASALLE	19	17
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



PLAN AT SIDE ROADS

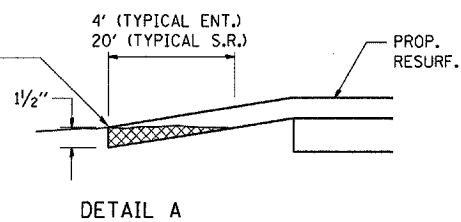


SECTION A-A
DETAILS AT ENTRANCES & SIDE ROADS

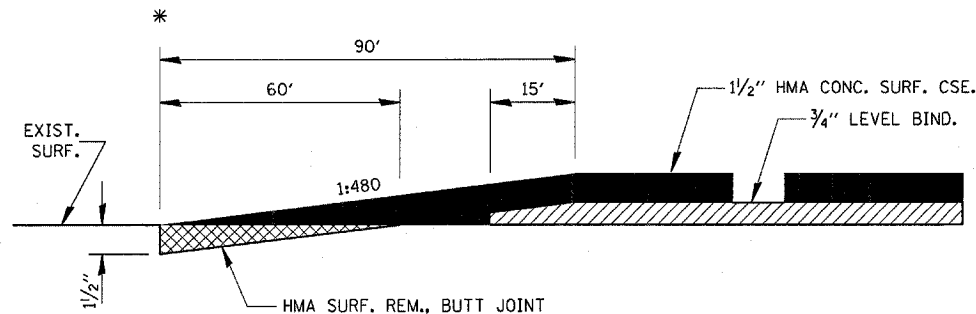


PLAN AT PRIVATE & COMMERCIAL ENTRANCES
(DO NOT RESURFACE FIELD ENTRANCES)

THE COST OF REMOVAL AT EXISTING HMA OR P.C.C. LOCATIONS SHALL BE PAID FOR PER SQ. YD. BY THE APPROPRIATE PAY ITEM. REMOVAL AT EXISTING AGG. LOCATIONS SHALL BE INCIDENTAL TO THE HMA. A-3 LOCATIONS SHALL BE FEATHER TAPERED.

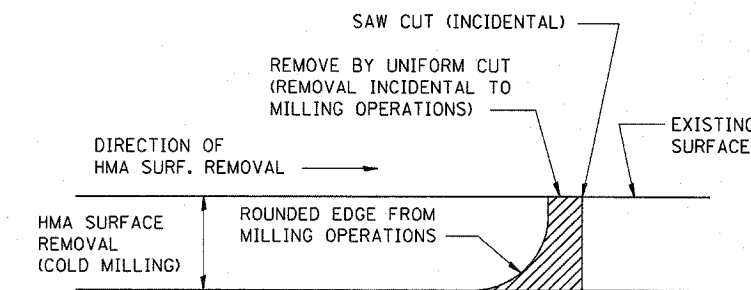


DETAIL A



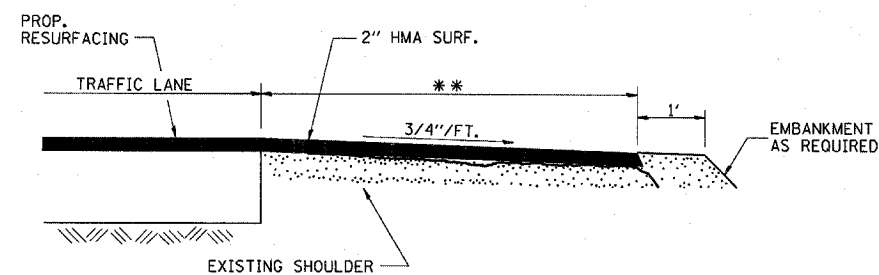
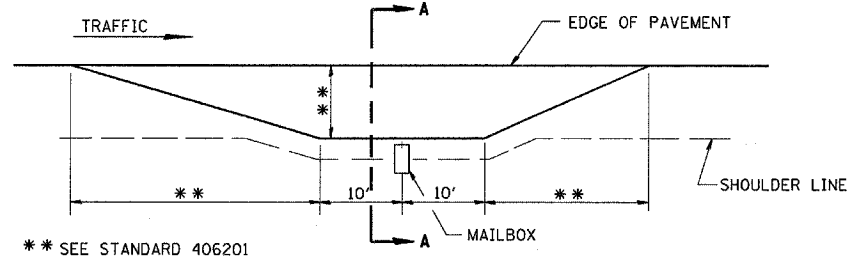
HMA BUTT JOINT DETAIL

- * STA. 216+28
- STA. 306+00
- STA. 331+60
- STA. 392+00
- STA. 429+31.50
- STA. 451+63
- STA. 455+32
- STA. 482+50

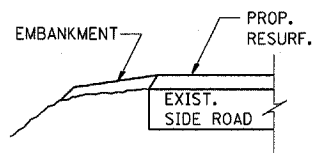


NOTE: WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE, THEN A SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL

HMA DETAIL AT BUTT JOINTS



SECTION A-A
MAILBOX TURNOUT DETAILS



SECTION B-B

REVISIONS	
NAME	DATE

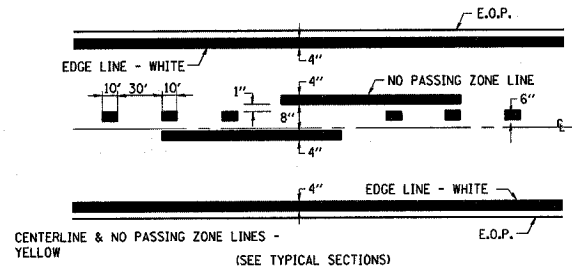
ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS

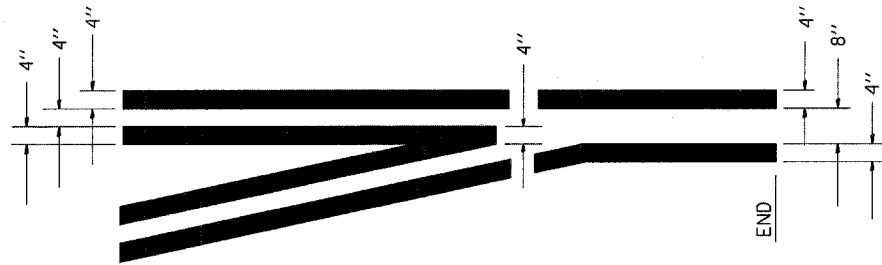
SCALE: VERT. HORIZ. DATE

DRAWN BY CHECKED BY

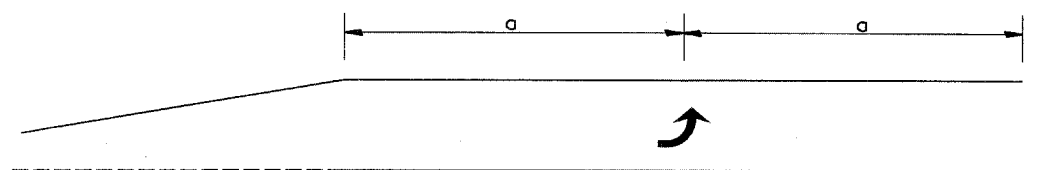
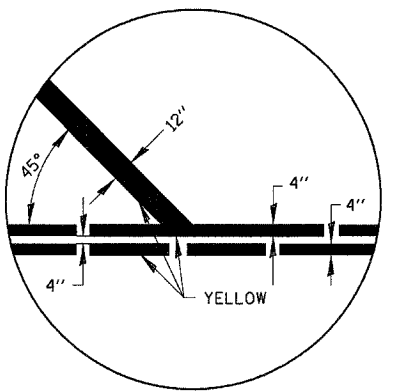
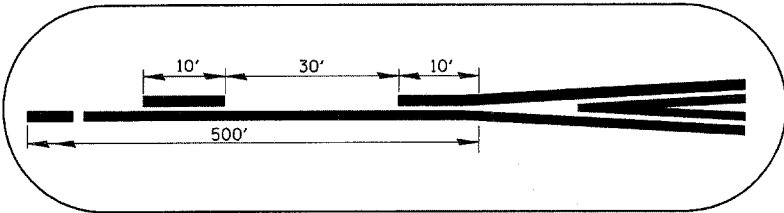
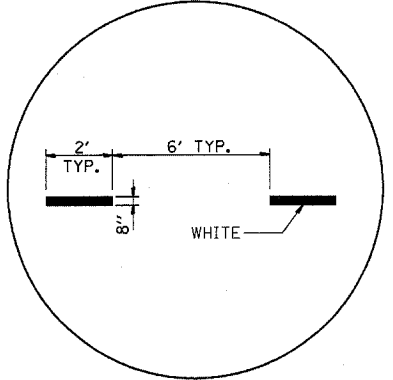
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
46	(2,2-1)RS-2	LASALLE	19	18
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



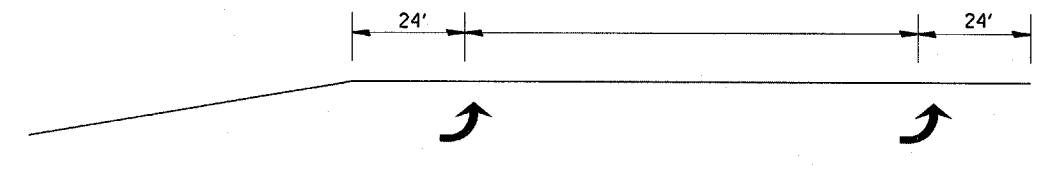
PAVEMENT MARKING



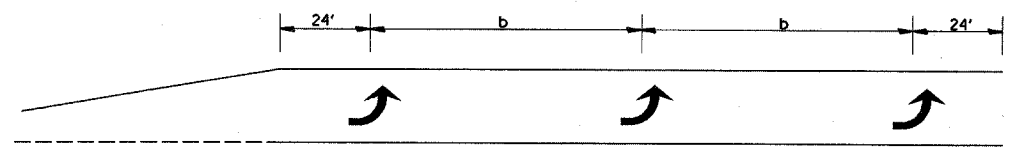
TYPICAL APPLICATION @ LEFT TURN LANES



99' AND UNDER

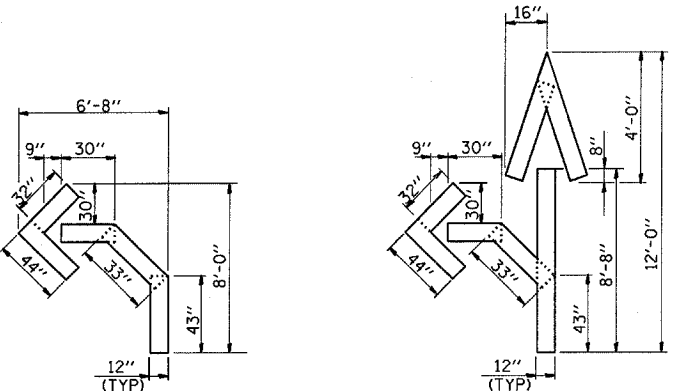


100' TO 149'



150' AND LONGER

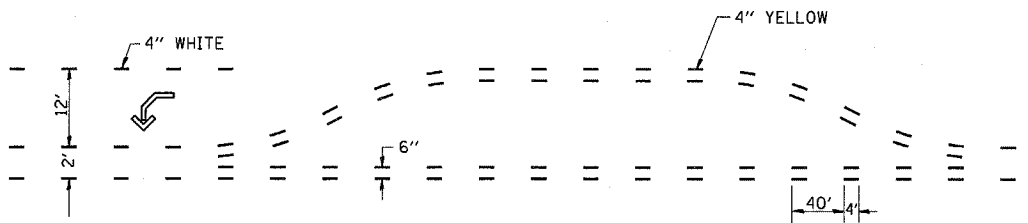
TYPICAL PLACEMENT OF ARROWS IN TURN LANES



QUANTITY
12" LINE = 16 LIN. FT.
OR 4" LINE = 48 LIN. FT.

QUANTITY
12" LINE = 29 LIN. FT.
OR 4" LINE = 87 LIN. FT.

SHORT-TERM PAVEMENT MARKING FOR MEDIANS AND ARROWS



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION

DETAILS

SCALE: VERT. HORIZ. DATE

DRAWN BY CHECKED BY

