

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP 649 & FAP 41 (IL 17)
SECTION (16R)RS-3
PROJECT ACSTP-000V(060)
3P MILL AND RESURFACE AND PCC PATCHING
LIVINGSTON COUNTY

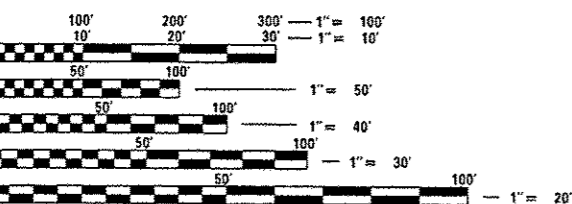
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INDEX OF SHEETS

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- 7-8 TYPICAL SECTIONS
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- 14 PERMANENT SURVEY MARKERS
- 15-20 BRIDGE PLANS
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HIGHWAY STANDARDS

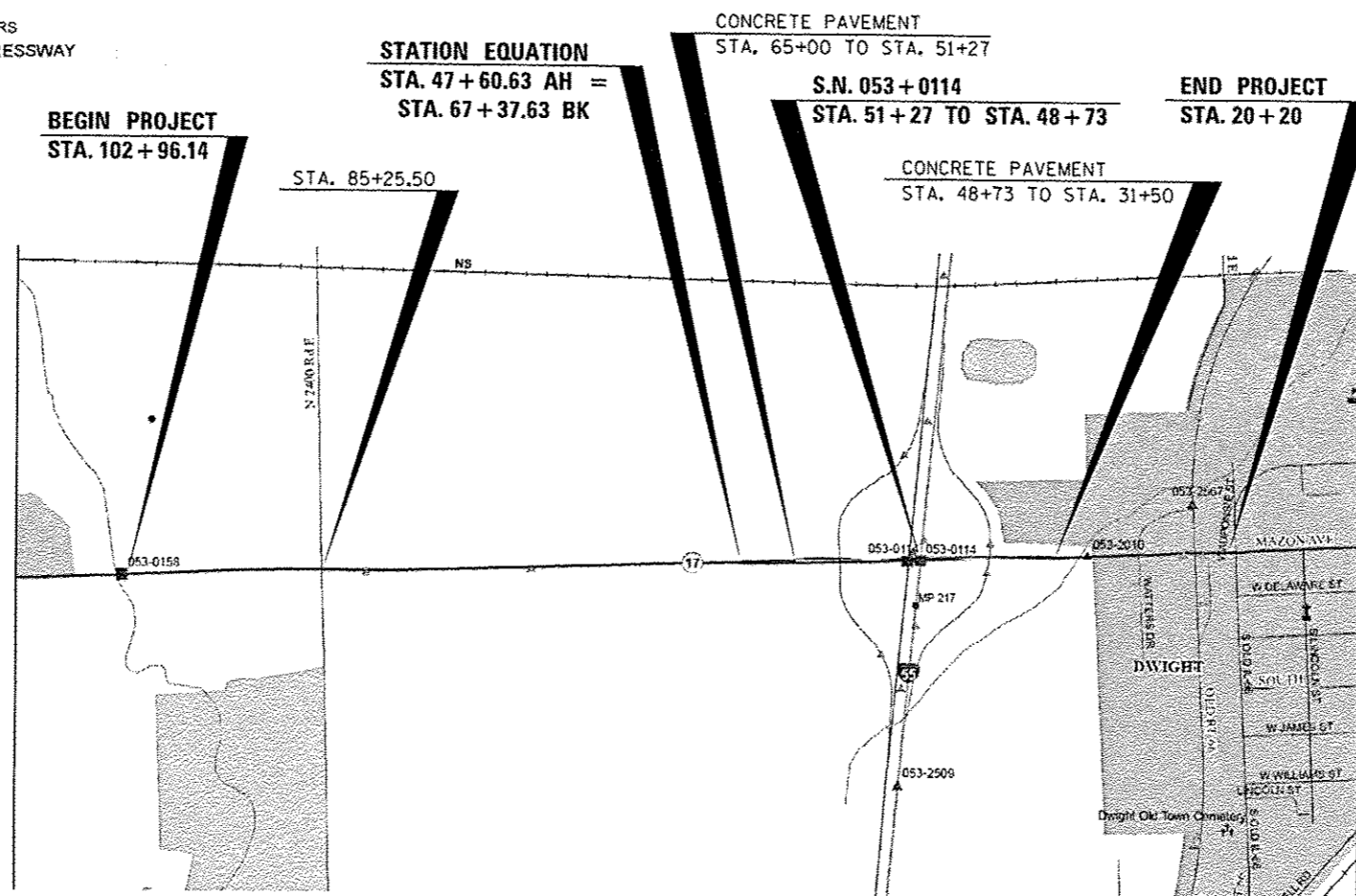
- 000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 001001-02 AREAS OF REINFORCEMENT BARS
- 001006 DECIMAL OF AN INCH AND OF A FOOT
- 442101-07 CLASS B PATCHES
- 482011-03 HMA SHOULDER STRIPS/SHOULDERS WITH RS OR WIDENING & RS PROJECTS
- 667101-02 PERMANENT SURVEY MARKERS
- 701001-02 OFF-ROAD 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
- 701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701306-03 LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701326-04 LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
- 701406-10 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
- 701451-03 RAMP CLOSURE FREEWAY/EXPRESSWAY
- 701901-05 TRAFFIC CONTROL DEVICES
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 701428-01 TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY



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

PROJECT ENGINEER: DAVE ALEXANDER, PE
UNIT CHIEF: RUTH SCHWANKE
DISTRICT 3 NO. (815) 434-6131
CONTRACT NO. 66F39



GROSS LENGTH = NET LENGTH = 10,252.14 FT. = 1.94 MILES

F.A.P. RTE. #	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	(16R)RS-3	LIVINGSTON	23	1
		ILLINOIS	CONTRACT NO. 66F39	

* FAP 649 & FAP 41



FUNCTIONAL CLASSIFICATION:
MINOR ARTERIAL

FAP 649
ADT = 2400
P.V. = 69.8% S.U. = 17.7% M.U. = 12.5%

FAP 41
ADT = 5100
P.V. = 75.5% S.U. = 2.9% M.U. = 21.6%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED *March 21, 2016*

Paul Coetzer, P.E.
REGIONAL ENGINEER

Maureen M. Addis, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

David A. Alexander
DIRECTOR OF PROGRAM DEVELOPMENT

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OF THE STATE OF ILLINOIS

GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

THE HMA SURFACE OF ALL MAILBOX TURNOUTS, PRIVATE ENTRANCES, COMMERCIAL ENTRANCES, AND SIDE ROADS SHALL BE MADE NEATLY, IN A WORKMANLIKE MANNER, AND SHALL ACCURATELY CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. IF REQUIRED BY THE ENGINEER, THE CONTRACTOR SHALL SAW CUT THE HMA SURFACE TO CONFORM TO THE SHAPES AND DIMENSIONS SHOWN ON THE PLAN DETAILS. THIS WORK WILL BE INCLUDED IN THE COST OF THE HMA SURFACE.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS HMA LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW HMA PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

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

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT / 100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
AGGREGATE DITCH CHECKS	5	TONS AGGREGATE

THE CONTRACTOR SHALL CONTACT JULIE AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS:

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

PREPARED BY: Tom Beaulieu
DISTRICT STUDIES & PLANS ENGINEER

DATE: March 21, 2016

EXAMINED BY: [Signature]
DISTRICT CONSTRUCTION ENGINEER

[Signature]
DISTRICT MATERIALS ENGINEER

[Signature]
DISTRICT OPERATIONS ENGINEER

FILE NAME :	USER NAME : carpenterdj	DESIGNED -	REVISED -
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	PLLOT DATE : 3/17/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: SHEET OF SHEETS STA. TO STA.

GENERAL NOTES

* FAP 649 & FAP 41

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(16)RIS-3	LIVINGSTON	23	2
			CONTRACT NO. 66F39	

ILLINOIS FED. AID PROJECT

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				URBAN	ROADWAY	ROADWAY
				0014	0005	0005
				S.N. 053-0114	RURAL	URBAN
44201299	DOWEL BARS 1 1/2"	EACH	1736		1437	299
44213200	SAW CUTS	FOOT	5405		4635	770
44213204	TIE BARS 3/4"	EACH	202		202	
48101200	AGGREGATE SHOULDERS, TYPE B	TON	322		322	
48203013	HOT-MIX ASPHALT SHOULDERS, 4"	SO YD	2110		2110	
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	1		1	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4		4	
67100100	MOBILIZATION	L SUM	1	0.25	0.5	0.25
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1		1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1		1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	LSUM	1		1	
70100820	TRAFFIC CONTROL AND PROTECTION, STANDARD 701451	LSUM	1		1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1			1
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	8		8	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	5345		3386	1959

• SPECIALTY ITEMS

• FAP 649 & FAP 41

FILE NAME =	USER NAME = eapenterdj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
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ILLINOIS FED. AID PROJECT															

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				80% FED 20% STATE	URBAN BRIDGE	ROADWAY	ROADWAY
					0014 S.N. 053-0114	0005 RURAL	0005 URBAN
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	1782		1129	653	
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	504		285	219	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	51916		43192	8724	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2954		2954		
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	2415		1336	1079	
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	240			240	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	132			132	
• 78003100	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LETTERS AND SYMBOLS	SQ FT	304		169	135	
• 78003140	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 8"	FOOT	1208		668	540	
• 78003180	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"	FOOT	66		0	66	
• 78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	25958		21596	4362	
• 78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	1477		1477	0	
• 78008250	POLYUREA PAVEMENT MARKING TYPE I - LINE 12"	FOOT	120		0	120	
• 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	170		84	86	

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• SPECIALTY ITEMS

• FAP 649 & FAP 41

FILE NAME =	USER NAME = oerpenterdj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS	SHEET NO.
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	PLOT DATE = 3/19/2016							ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				80% FED 20% STATE		
				URBAN BRIDGE 0014 S. N. 053-0114	ROADWAY 0005 RURAL	ROADWAY 0005 URBAN
78300100	PAVEMENT MARKING REMOVAL	SO FT	4661		4098	563
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	170		84	86
X5017305	PROTECTIVE SHIELD (PERMANENT)	SO YD	1043	1043		
X7010410	SPEED DISPLAY TRAILER	CAL MO	2		2	
X7010600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701406, SPECIAL	LSUM	1		1	
* X7830060	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SO FT	278		169	109
* X7830076	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	1208		668	540
* X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	66		0	66
Z0004556	HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SO YD	1341	1341		
Z0021907	SILICONE JOINT SEALER 1.75"	FOOT	140	140		
Z0021900	EXPANSION JOINT REPAIR	FOOT	140	140		

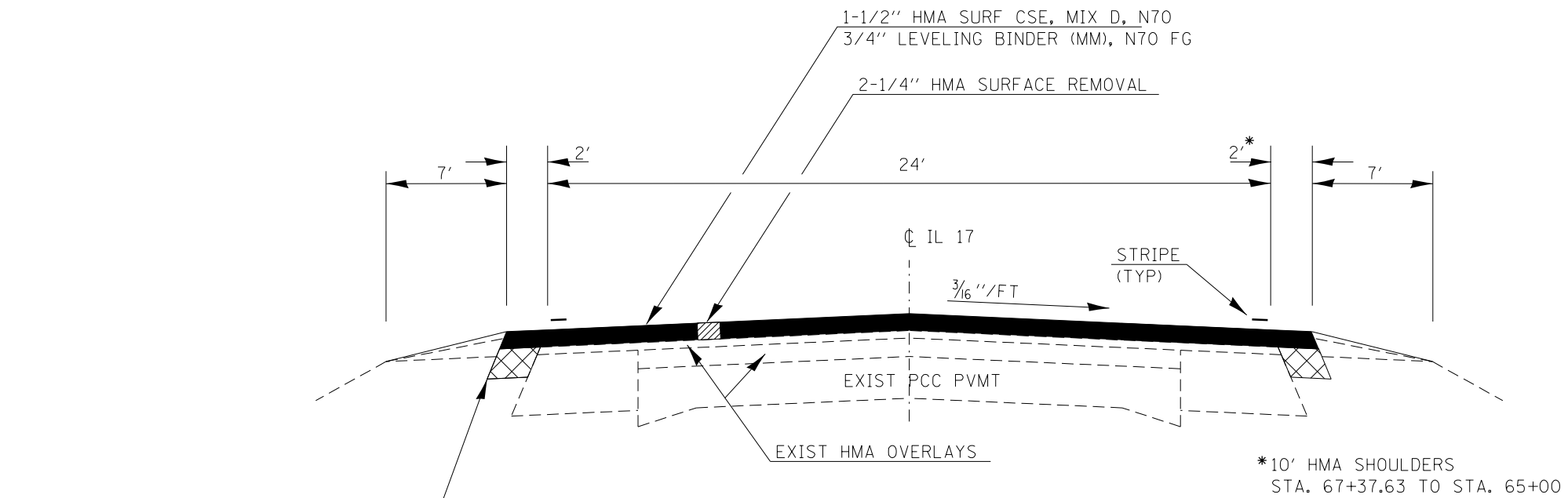
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• SPECIALTY ITEMS

• FAP 649 & FAP 41

FILE NAME :	USER NAME : carpensterdj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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ILLINOIS FED. AID PROJECT										

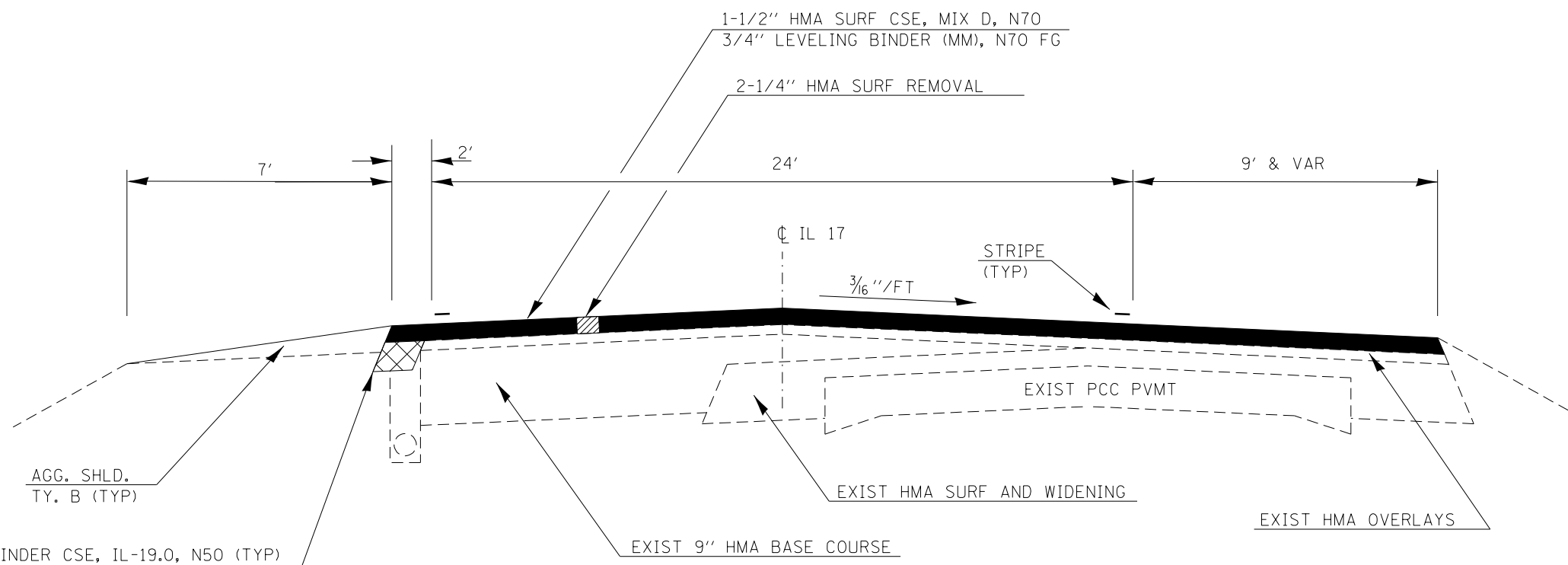


TYPICAL SECTION NO. 1

STA 102+96.14 TO 101+00
 STA 85+25.50 TO 47+60.63
 STA. 67+37.63 TO STA. 65+00

STA EQUATION:
 STA. 47+60.63 AH = STA. 67+37.63 BK

4" HMA BINDER CSE, IL-19.0, N50 (TYP)



TYPICAL SECTION NO. 2

STA 101+00 TO 85+25.50

AGG. SHLD.
 TY. B (TYP)

4" HMA BINDER CSE, IL-19.0, N50 (TYP)

* FAP 649 & FAP 41

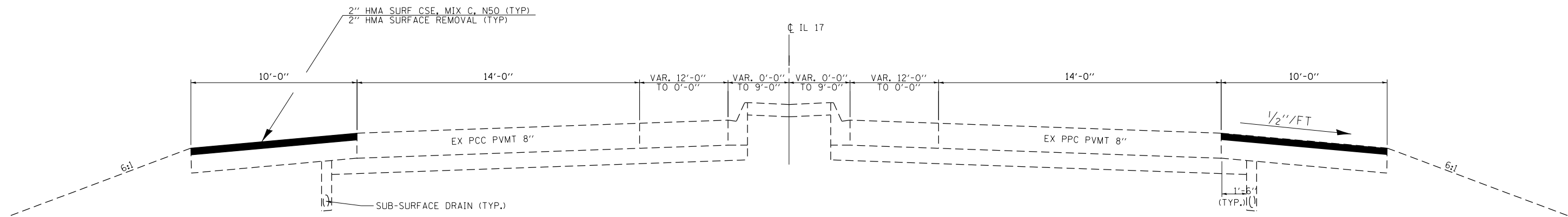
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

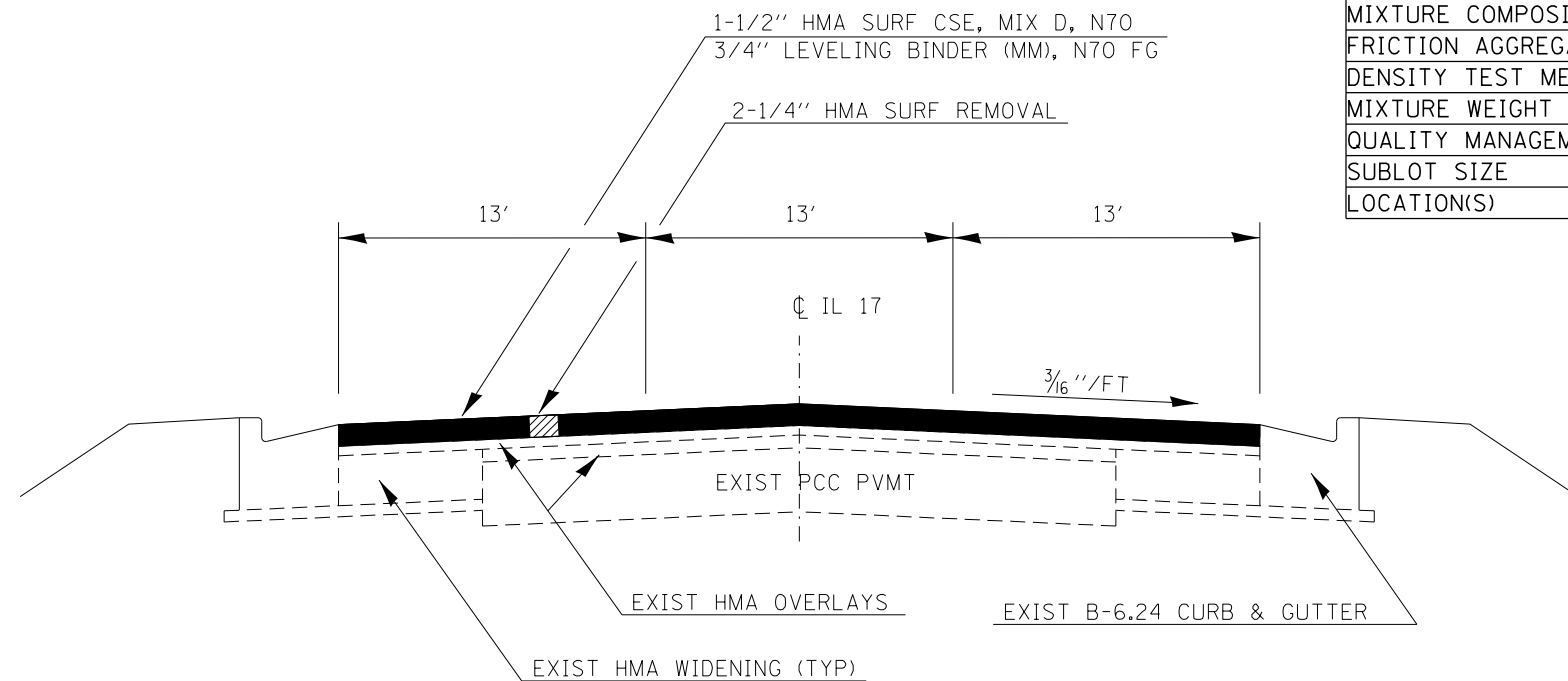
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*	(16)RS-3	LIVINGSTON	23	7
			CONTRACT NO. 66F39	
ILLINOIS FED. AID PROJECT				



TYPICAL SECTION NO. 3

STA 65+00 TO 31+50

MIX DESIGN					
	HMA SHOULDERS (2')	HMA LEVEL BINDER	HMA SURFACE	HMA SHOULDERS (10')	HMA SURFACE
PG GRADE	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0% @	4.0% @	4.0% @	4.0% @	4.0% @
	N50	N70	N70	N50	N70
MIXTURE COMPOSITION	IL 19.0FG	IL 9.5FG	IL 9.5	IL 9.5	IL 9.5
FRICTION AGGREGATE			MIX D	MIX C	MIX D
DENSITY TEST METHOD	CORES	GROWTH CURVE	CORES/CORRELATION	CORES	
MIXTURE WEIGHT	112# / SQ YD / IN	112# / SQ YD / IN	112# / SQ YD / IN	112# / SQ YD / IN	112# / SQ YD / IN
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA	QCP	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A	500 TONS	N/A	N/A
LOCATION(S)	ENTIRE PROJECT	ENTIRE PROJECT	ROADWAY	ENTIRE PROJECT	ENTIRE PROJECT



TYPICAL SECTION NO. 4

STA 31+50 TO 20+20

FILE NAME =	USER NAME = carpenterdj	DESIGNED -	REVISED -
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	PLOT DATE = 3/17/2016	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

* FAP 649 & FAP 41

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(16)RS-3	LIVINGSTON	23	8
			CONTRACT NO. 66F39	
ILLINOIS FED. AID PROJECT				

PATCHING SCHEDULE - WESTBOUND LANES																
LOCATION STATION	DRIVE LANE LENGTH (FT)	TURN LANE LENGTH (FT)	DRIVING LANE							TURN LANE						
			CLASS B PATCHING			DOWEL BARS	SAW CUTS	WELDED WIRE REINF.	TIE BARS	CLASS B PATCHING			DOWEL BARS	SAW CUTS	WELDED WIRE REINF.	TIE BARS
			TYPE II	TYPE III	TYPE IV					TYPE II	TYPE III	TYPE IV				
SO YD	SO YD	SO YD	EACH	FOOT	SO YD	EACH	SO YD	SO YD	SO YD	EACH	FOOT	SO YD	EACH			
RURAL																
64+00	6		10			25	56									
59+98	8		13			26	61									
59+02	6		10			26	57									
57+97	7		12			26	59									
56+89		11								15		20	69			
56+77	10			16		20	62	16								
56+15	6		9			20	54									
54+90		6								8		20	54			
54+63		6								8		20	54			
54+33		6								8		20	54			
53+67	8		12			20	58									
53+48		6								8		20	54			
52+53		9								12		20	63			
51+68	6		9			20	54									
51+30	12			19		20	66	19								
48+65	6		9			20	54									
48+30	6		9			20	54									
47+96	6		9			20	54									
46+95	6		9			20	54									
45+45	6		9			20	54									
44+24	6		9			20	54									
43+71	6		9			20	54									
43+59	19.7				31	20	81	31	9							
43+34	7.4		12			20	57									
43+00	37				58	20	116	58	18							
42+64	6		10			25	54									
42+41	14			23		25	70	23								
42+07	6		10			25	54									
41+85	20				30	23	82	30	10							
41+57	6		9			23	54									
40+98	6		9			23	57									
40+87	9		14			23	63									
40+33	6		9			23	57									
40+14	14.6			23		23	74	23								
39+77	16			25		23	77	25								
39+33	27				41	23	99	41	13							
38+69	70.4				106	23	186	106	35							
37+79	6		9			23	57									
37+52	32				48	23	109	48	16							
37+10	6		9			23	57									
36+86	26.5				40	23	98	40	13							
SUBTOTALS			232	105	352	777	2407	457	114	59		120	348			
URBAN																
36+55	15.4			24		23	76	24								
36+13	19				29	23	82	29								
35+67	6		9			23	56									
35+10	6		9			23	50									
34+79	6		9			23	50									
33+66	16			25		23	68	25								
33+16	6		9			23	48									
SUBTOTALS			37	49	29	161	428	77								

WESTBOUND TOTALS							
CLASS B PATCHING			DOWEL BARS	SAW CUTS	WELDED WIRE REINF.	TIE BARS	
TYPE II	TYPE III	TYPE IV					
SO YD	SO YD	SO YD	EACH	FOOT	SO YD	EACH	
328	154	381	1058	3183	534	114	

PAVEMENT MARKING																
STA. TO STA.	LENGTH	POLYUREA	POLYUREA	POLYUREA	POLYUREA	PREFORMED	PREFORMED	PREFORMED	GROOVING	GROOVING	GROOVING	RAISED	RAISED	RAISED	RAISED	
		PVMT MRK TYPE 1 LINE 4" (WHITE)	PVMT MRK TYPE 1 LINE 4" (YELLOW)	PVMT MRK TYPE 1 LINE 6"	PVMT MRK TYPE 1 LINE 12"	PLASTIC PVMT MRK TYPE B 8" - WHITE	PLASTIC PVMT MRK TYPE B 24"	PLASTIC PVMT MRK TYPE B LETTERS & SYMBOLS	FOR RECESSED PVMT MRK 9"	FOR RECESSED PVMT MRK 25"	FOR RECESSED PVMT MRK LETTERS & SYMBOLS	REFLECTIVE PVMT MARKERS (2 WAY AMBER)	REFLECTIVE PVMT MARKERS (1 WAY AMBER)	REFLECTIVE PVMT MARKERS (1 WAY CRYSTAL)	REFLECTIVE PVMT MARKER REMOVAL	
	FT	FT	FT	FT	FT	FT	FT	SQ FT	FT	FT	SQ FT	EACH	EACH	EACH	EACH	
RURAL																
102+96.14	48+80.63	5415.51	10831.0		1353.9											
48+80.63	47+60.63	120	240.0	120.0	30.0							68.0			68.0	
STA EQUATION																
47+60.63AH = 67+37.63 BK																
67+37.63	65+00.00	237.63	475.3	237.6	59.4											
65+00.00	63+66.00	134	268.0	134.0	33.5											
63+66.00	56+95.00	671	1342.0	1342.0				26.0			26.0					
56+95.00	51+27.00	568	1136.0	1020.0			335.0	58.3	335.0		58.3			7.0	7.0	
51+27.00	48+73.00	254	508.0	508.0												
48+73.00	36+56.00	1217	2434.0	1000.0			333.0		333.0		84.3			7.0	7.0	
SUBTOTAL			17234.3	4361.6	1476.8	0.0	668.0	0.0	168.6	668.0	0.0	168.6	70.0	0.0	14.0	84.0
URBAN																
36+56.00	31+50.00	506	1012.0	1012.0						26.0				13.0		13.0
31+50.00	28+37.00	313	626.0	832.0		60.0								11.0	13.0	24.0
28+37.00	20+20.00	817		880.0		60.0	539.5	66.0	109.2	539.5	66.0	109.2	27.0	10.0	12.0	49.0
SUBTOTAL			1638.0	2724.0	0.0	120.0	539.5	66.0	135.2	539.5	66.0	109.2	27.0	34.0	25.0	86.0
TOTALS			18872	7086	1477	120	1208	66	304	1208	66	278	97	34	39	170

• NOTE 65+00 TO 51+27 AND 48+73 TO 31+50 ARE CONCRETE PAVEMENT AREA

TEMPORARY PAVEMENT MARKING																			
STA. TO STA.	LENGTH	TEMPORARY PVMT MRK	TEMPORARY PVMT MRK	TEMPORARY PVMT MRK	TEMPORARY PVMT MRK	TEMPORARY PVMT MRK	TEMPORARY PVMT MRK	TEMPORARY PVMT MRK	TEMPORARY PVMT MRK	TEMPORARY PVMT MRK LETTERS & SYMBOLS	PVMT MRK REMOVAL								
												LINE 4" (WHITE)	LINE 4" (YELLOW)	LINE 6" (YELLOW)	LINE 8" (WHITE)	LINE 12" (YELLOW)	LINE 24" (WHITE)	SQ FT	SQ FT
												FT	FT	FT	FT	FT	FT	SQ FT	SQ FT
RURAL																			
102+96.14	48+80.63	HMA	5415.51	21662.0			2707.8				714.5								
48+80.63	47+60.63	HMA	120	480.0	240.0		60.0				242.5								
STA EQ 47+60.63AH = 67+37.63 BK																			
67+37.63	65+00.00	HMA	237.63	950.5	475.3		118.8				480.2								
65+00.00	63+66.00	PCC	134	536.0	268.0		67.0				270.8								
63+66.00	56+95.00	PCC	671	2684.0	2684.0						969.2								
56+95.00	51+27.00	PCC	568	2272.0	2040.0						814.0								
51+27.00	48+73.00	SN 053-0114	254	1016.0	1016.0		670.0			116.6	210.3								
48+73.00	36+56.00	PCC	1217	4868.0	2000.0		666.0			168.6	396.4								
SUBTOTAL				34468.5	8723.3	2953.6	1336.0	0.0	0.0	285.2	4097.9								
URBAN																			
36+56.00	31+50.00	PCC	506	2024.0	2024.0						112.4								
31+50.00	28+37.00	HMA	313	1252.0	1664.0			120.0			91.0								
28+37.00	20+20.00	HMA W/ C&G	817	1760.0			1079.0	120.0	132.0	218.4	359.2								
SUBTOTAL				3276.0	5448.0	0.0	1079.0	240.0	132.0	218.4	562.7								
TOTALS				37745	14171	2954	2415	240	132	504	4661								

* FAP 649 & FAP 41

FILE NAME =	USER NAME = carpenterdj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
pw:\IL\084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\DOT Offices\District 3\Projects\0366\Drawings\0366F39-shd-details.dgn		CHECKED -	REVISED -						*	(16R)RS-3	LIVINGSTON	23	11				
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -						SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 66F39	
	PLOT DATE = 3/17/2016															ILLINOIS FED. AID PROJECT	

MAINLINE SCHEDULE

STA. TO STA.			LENGTH	PVMT WIDTH	SHOULDER WIDTH	HMA SURF CSE 1 1/2"	HMA SURF CSE 2" (10'SHOULDER)	HMA SHOULDER 4"	EXCAVATING & GRADING EXISTING SHOULDER	LEVEL BINDER (MM)	LEVEL BINDER (HM)	HMA SURF REM 2 1/4"	HMA SURF REM 2" (10'SHOULDER)	MIX FOR JTS, CRACKS & FLGWYS	TACK COAT	AGG SHLD TY B	TEMP RAMP
			FT	FT		TONS	TONS	SQ YD	UNIT	TONS	TONS	SQ YD	SQ YD	TONS	LBS	TONS	SQ YD
RURAL																	
102+96.14	101+00.00	WESTBOUND	196.14	12	2	25.6		43.6	2.0	12.8	0.2	305.1		0.1	205.9	5.6	10.0
101+00.00	85+25.50	WESTBOUND	1574.5	12	8	293.9				147.0	1.7	3498.9		1.0	2361.8	44.8	
85+25.50	47+60.63	WESTBOUND	3764.87	12	2	491.9		836.6	37.6	246.0	2.9	5856.5		1.8	3953.1	107.2	10.0
102+96.14	47+60.63	EASTBOUND	5535.51	12	2	723.3		1230.1	55.4	361.7	4.3	8610.8		2.6	5812.3	157.6	20.0
STA EQ 47+60.63AH = 67+37.63 BK																	
67+37.63	65+00.00	BOTH	237.63	28	10	62.1	59.1			31.1	0.4	739.3	528.1	0.2	237.6	6.8	23.3
65+00.00	51+27.00	BOTH / CONCRETE	1373	14	10		341.7						3051.1	0.9	1373.0		
51+27.00	48+73.00	SN 053-0114	254	47.5													
48+73.00	36+56.00	BOTH / CONCRETE	1217	14	10		302.9						2704.4	0.8	1217.0		
SUBTOTAL						1596.9	703.8	2110.3	95.0	798.4	9.5	19010.5	6283.6	7.4	15160.7	322.0	63.3
URBAN																	
36+56.00	31+50.00	BOTH / CONCRETE	506	28	10		125.9						1124.4	0.3	506.0		23.3
31+50.00	20+20.00	BOTH	1130	39		411.3				205.7	2.4	4896.7	0.0	1.5	5729.1		32.5
SUBTOTAL						411.3	125.9			205.7	2.4	4896.7	1124.4	1.8	6235.1	0.0	55.8
TOTALS						2008	830	2110	95	1004	12	23907	7408	9	21396	322	119

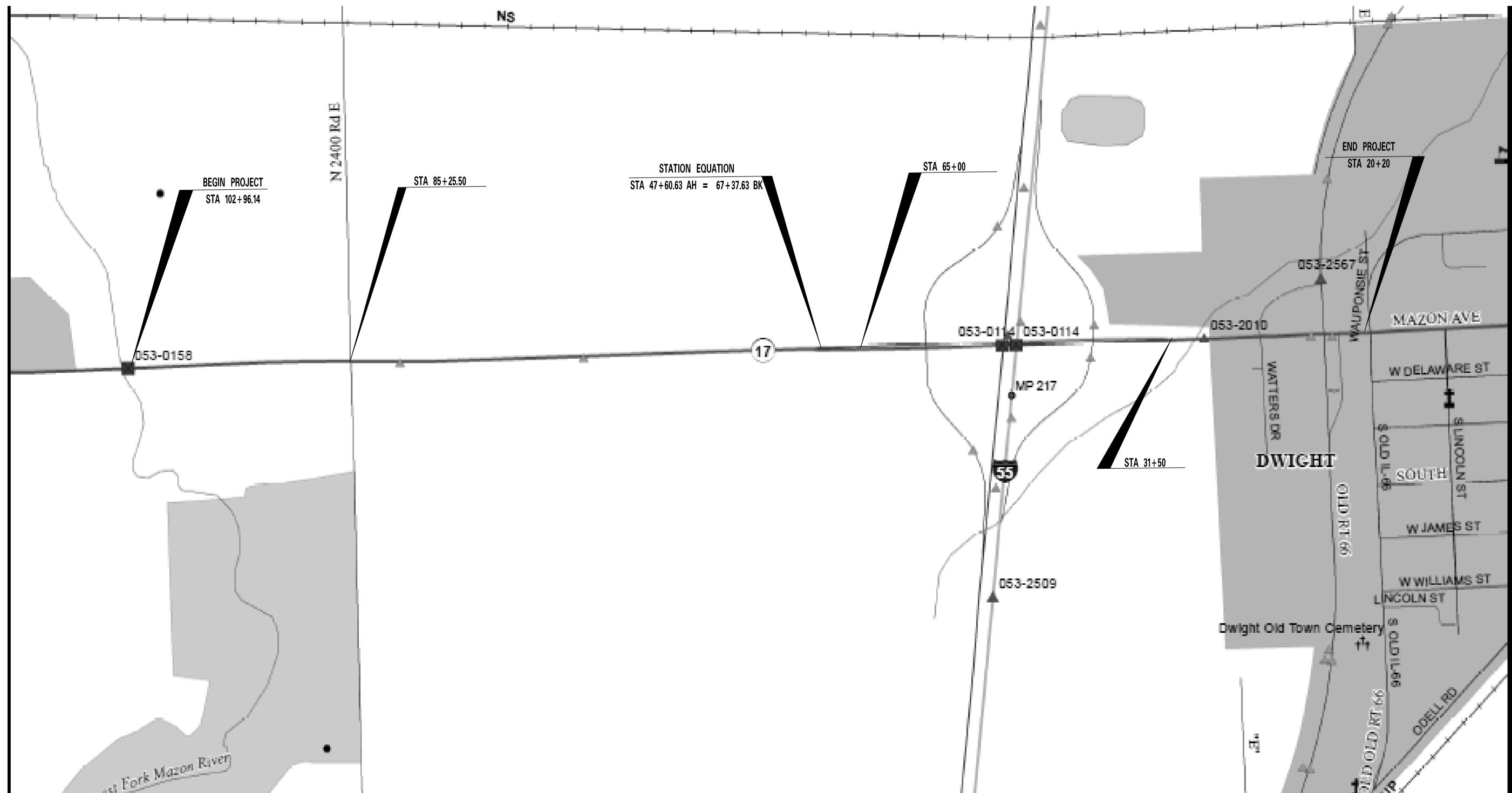
• NOTE 65+00 TO 51+27 AND 48+73 TO 31+50 ARE CONCRETE PAVEMENT AREA

SHORT TERM PAVEMENT MARKING

STA. TO STA.			LENGTH	SHORT TERM PVMT MRK	SHORT TERM PVMT MRK REMOVAL
			FT	FT	SQ FT
RURAL					
102+96.14	48+80.63	HMA	5415.51	1624.7	542.0
48+80.63	47+60.63	HMA	120	36.0	12.0
STA EQ 47+60.63AH = 67+37.63 BK					
67+37.63	65+00.00	HMA	237.63	71.3	24.0
65+00.00	63+66.00	PCC	134		
63+66.00	56+95.00	PCC	671	261.0	87.0
56+95.00	51+27.00	PCC	568	672.0	224.0
51+27.00	48+73.00	SN 053-0114	254		
48+73.00	36+56.00	PCC	1217	720.6	240.0
SUBTOTAL				3385.6	1129.0
URBAN					
36+56.00	31+50.00	PCC	506	412.8	138.0
31+50.00	28+37.00	HMA	313	249.6	83.0
28+37.00	20+20.00	HMA W/ C&G	817	1296.6	432.0
SUBTOTAL				1959.0	653.0
TOTALS				5345	1782

* FAP 649 & FAP 41

FILE NAME =	USER NAME = carpenterdj	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SCHEDULES				F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBID\INTEG.illinois.gov\PI\DOT\Documents\DOT Offices\District 3\Projects\03666\DRAWING\B3666F39-shr-details.dgn		CHECKED -	REVISED -						*	(16)RS-3	LIVINGSTON	23	12
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 66F39	
	PLOT DATE = 3/17/2016				ILLINOIS FED. AID PROJECT								



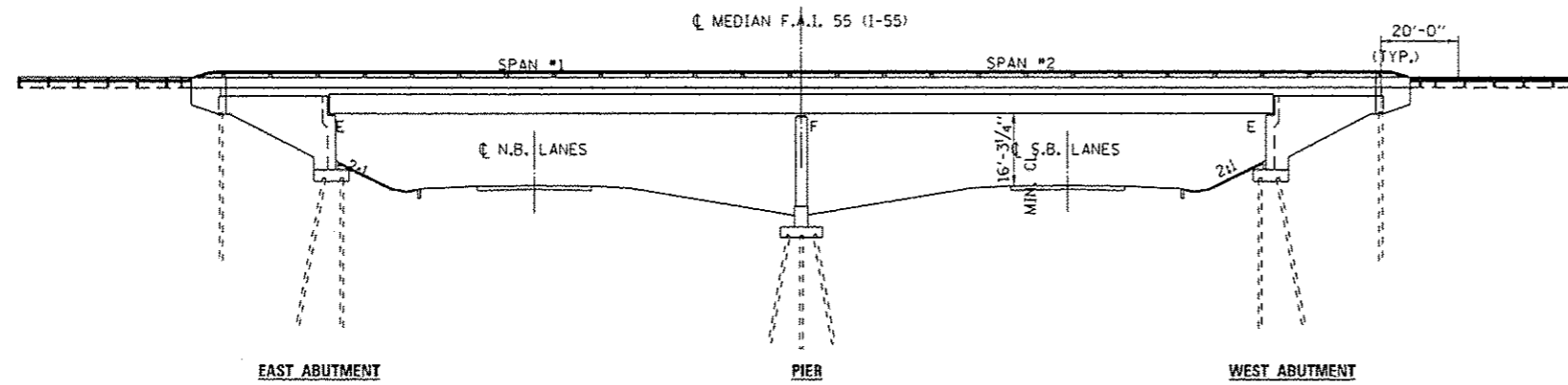
* FAP 649 & FAP 41

FILE NAME =	USER NAME = carpenterdj	DESIGNED -	REVISED -
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/17/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE:		SHEET OF SHEETS		STA.	TO STA.
		LOCATION MAP			

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(16RIRS-3)	LIVINGSTON	23	13
			CONTRACT NO. 66F39	
ILLINOIS FED. AID PROJECT				



ELEVATION

GENERAL NOTES

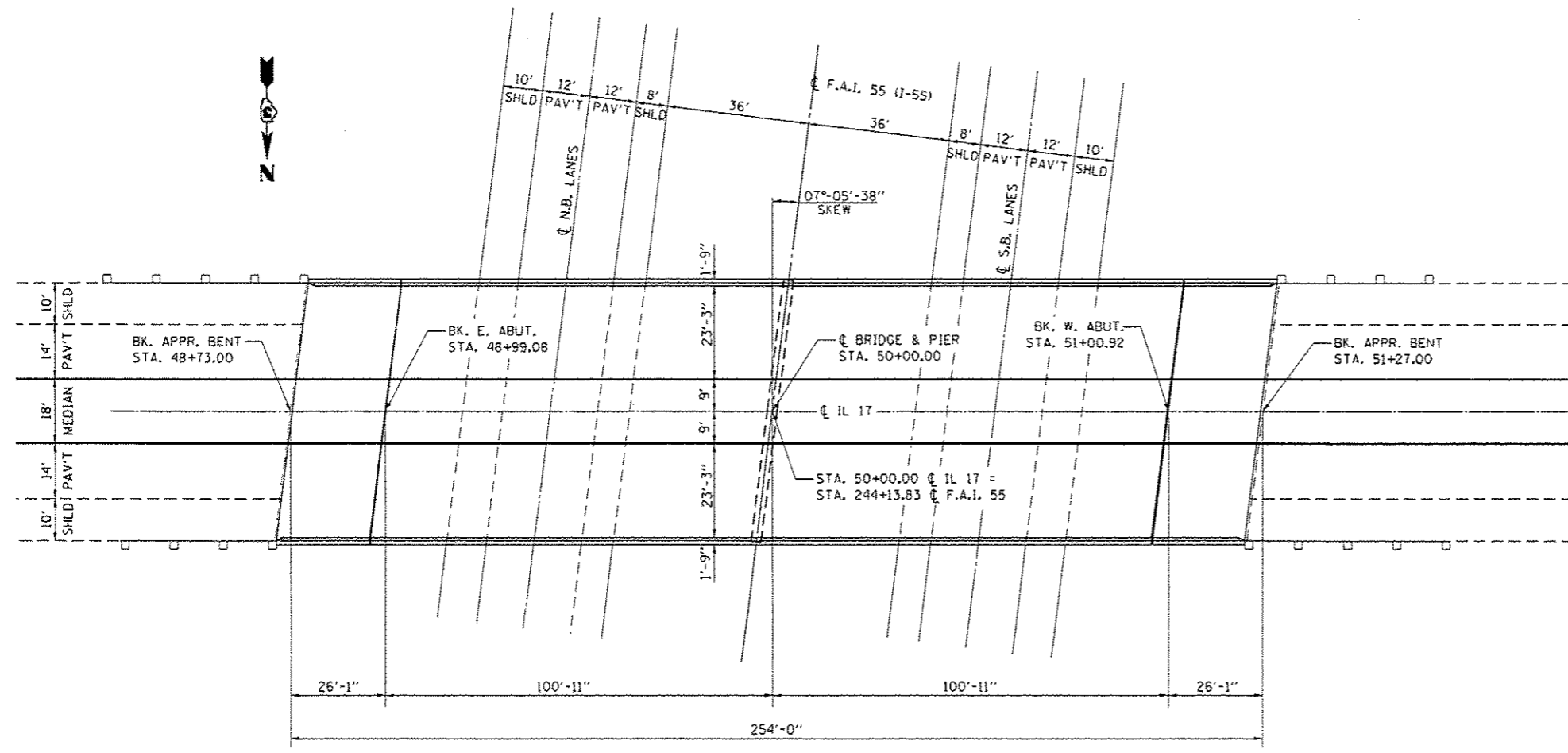
ALL STRUCTURAL STEEL SHALL CONFORM TO AASHTO CLASSIFICATION M-270 GR. 36 UNLESS OTHERWISE NOTED.

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.

HOT-MIX ASPHALT SURFACE REMOVAL SHALL BE ACCORDING TO THE SPECIAL PROVISION FOR HOT-MIX ASPHALT SURFACE REMOVAL (DECK).

ESTIMATED LENGTH OF 1" x 1/2" BAR TO BE REPLACED IS 40 FEET. ACTUAL LENGTH AND LOCATION TO BE DETERMINED BY THE ENGINEER IN THE FIELD AFTER EXISTING HMA IS REMOVED.

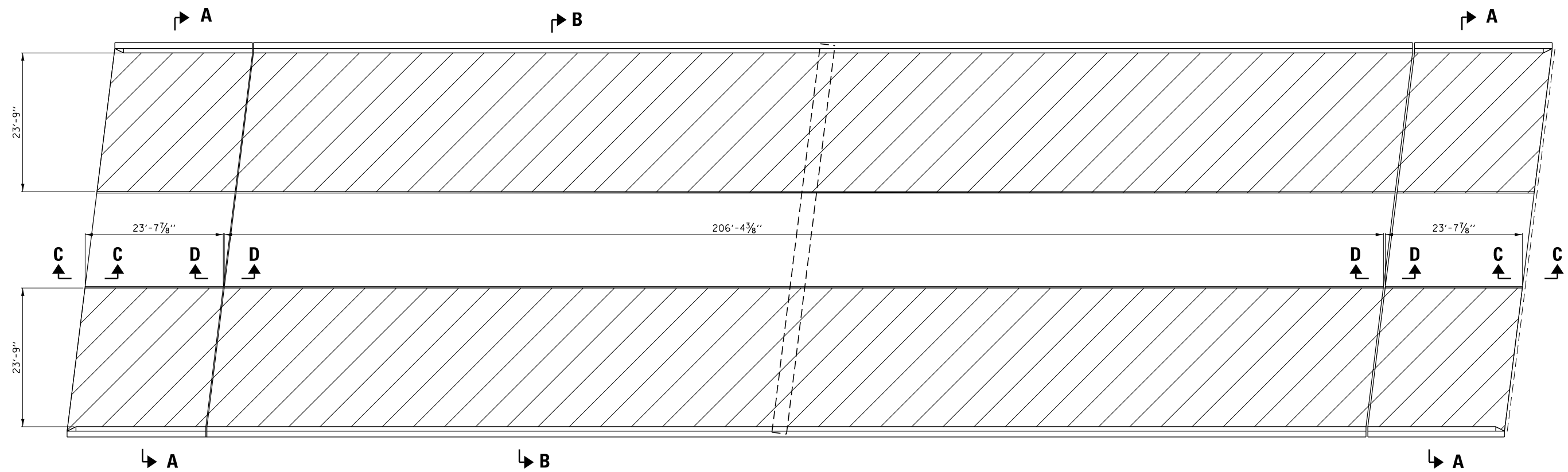
COST OF LABOR AND MATERIALS REQUIRED TO REPLACE THE MISSING 1" x 1/2" BAR IS INCLUDED WITH SILICONE JOINTER SEALER, 1.75.



PLAN
STRUCTURE NO. 053-0114

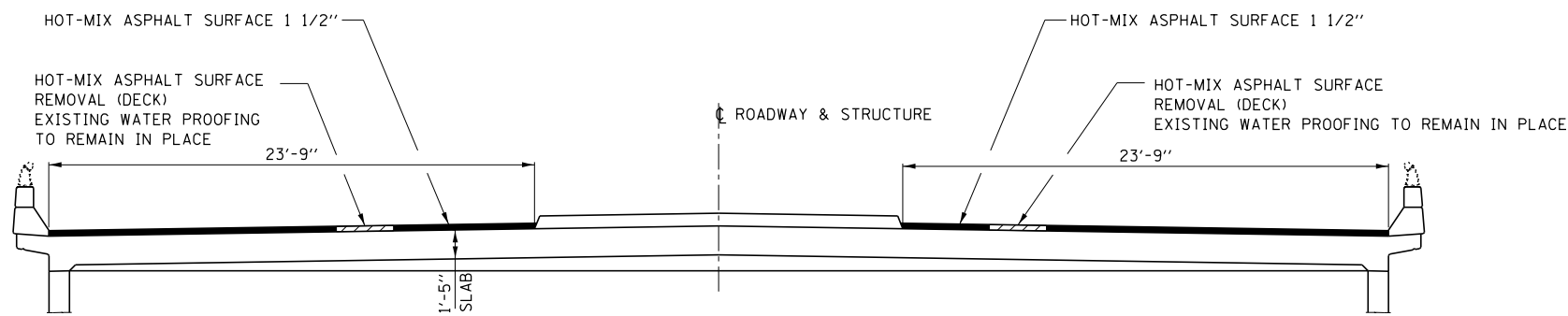
TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
HOT-MIX ASPHALT SURFACE REMOVAL (DECK)	SQ. YD.	1341
HOT-MIX ASPHALT SURFACE CSE.	TONS	113
PROTECTIVE SHIELD (PERMANENT)	SQ. YD.	1043
SILICONE JOINTER SEALER, 1.75"	FOOT	140

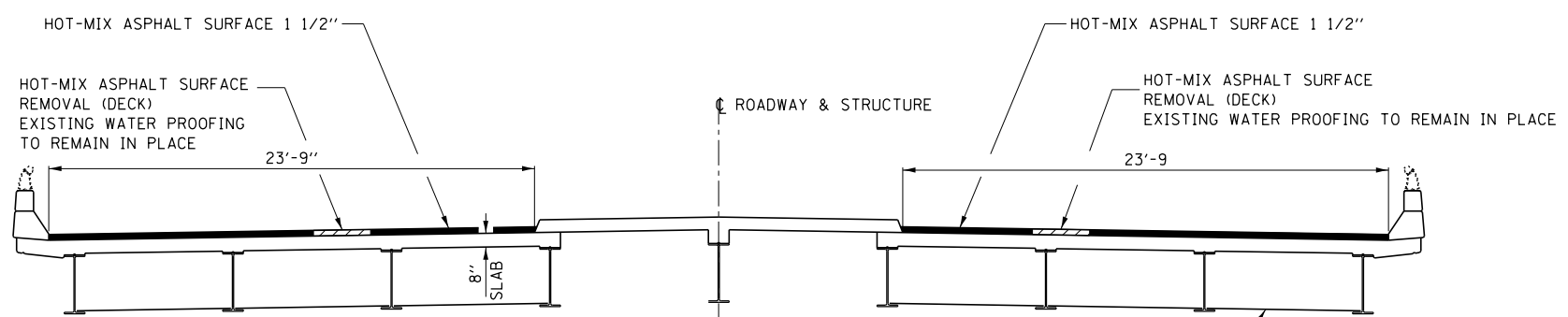


PLAN

HOT-MIX ASPHALT SURFACE REMOVAL (DECK)
 HOT-MIX ASPHALT SURFACE CSE. (1 1/2'')



SECTION A-A



SECTION B-B

FILE NAME =	USER NAME = carpenterdj	DESIGNED -	REVISED -
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 3\Projects\03666\Drawings\B3666F39-shd-details.dgn		CHECKED -	REVISED -
Default	PLOT DATE = 3/17/2016	DATE -	REVISED -

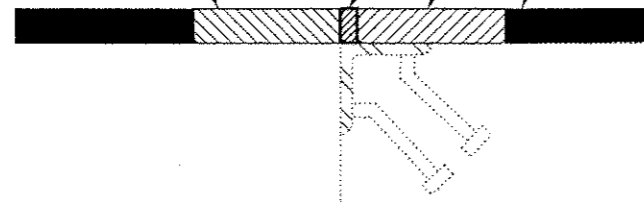
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS
FOR STRUCTURE NO. 053-0114**

SCALE: SHEET 2 OF 3 SHEETS STA. 48+73.00 TO STA. 51+27.00

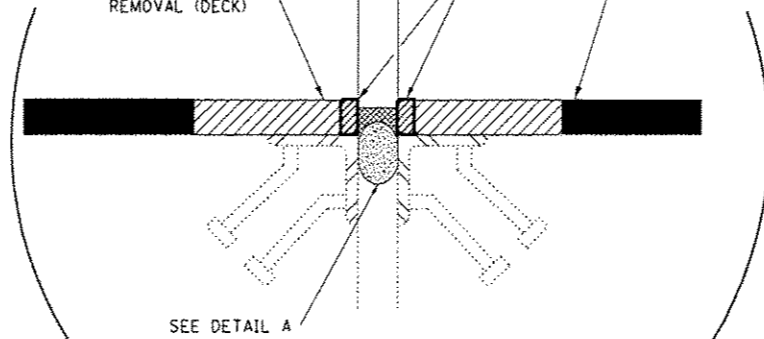
* FAP 649 & FAP 41			
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS
*	(53-1HB)RS	LIVINGSTON	23
			SHEET NO. 16
CONTRACT NO. 66F39			
ILLINOIS FED. AID PROJECT			

HOT-MIX ASPHALT SURFACE REMOVAL
 NEW OR EXISTING 1" x 1/2" STEEL BAR
 HOT-MIX ASPHALT SURFACE REMOVAL (DECK)
 HOT-MIX ASPHALT SURFACE 1/2"



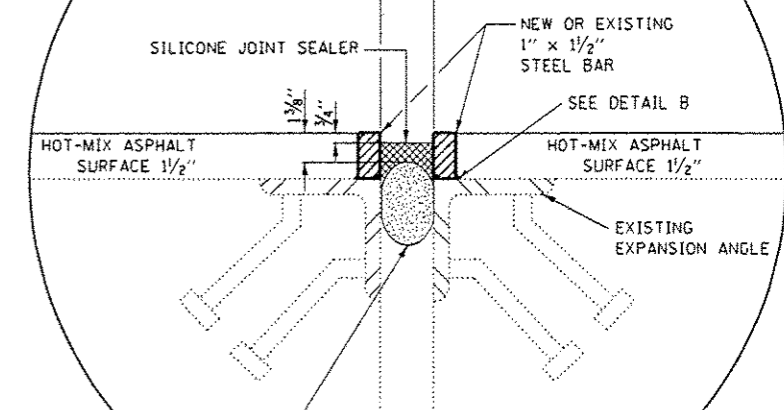
SECTION C-C

1 3/4" @ 50° F.
 HOT-MIX ASPHALT SURFACE REMOVAL (DECK)
 NEW OR EXISTING 1" x 1/2" STEEL BAR
 HOT-MIX ASPHALT SURFACE 1/2"



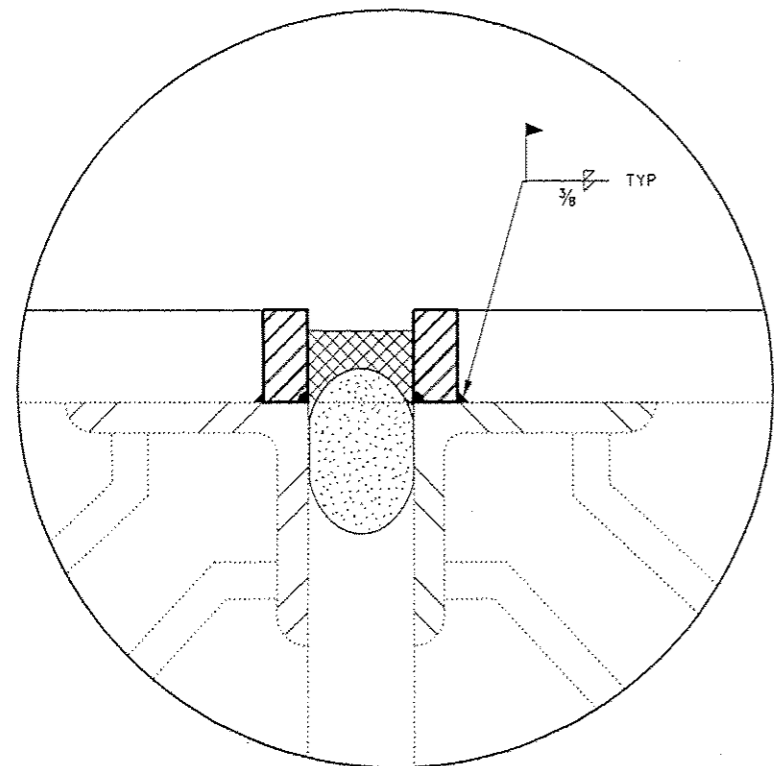
SECTION D-D

1 3/4" @ 50° F.

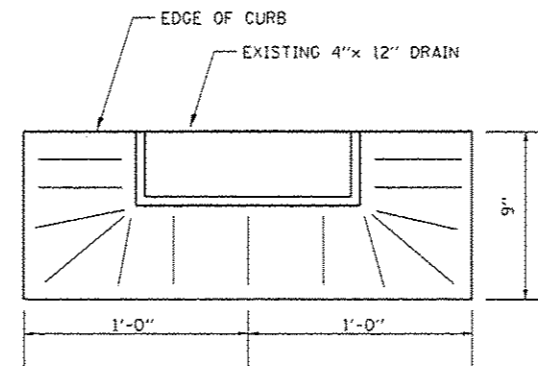


BACKER ROD HAVING A DIAMETER 25% GREATER THAN THE JOINT OPENING AT THE TIME OF INSTALLATION.

DETAIL A

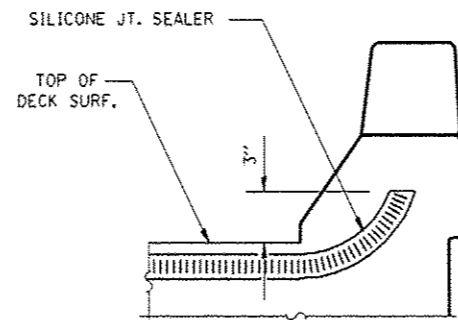


DETAIL B

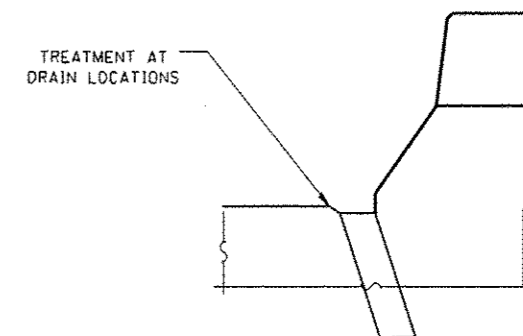


HMA TREATMENT AT DRAINS

MINIMUM THICKNESS OF OVERLAY AT EDGE OF DRAIN = 1"



TYPICAL END OF SEAL TREATMENT



TREATMENT OF HMA OVERLAY AT DRAIN LOCATIONS

FILE NAME =	USER NAME = barpennerd	DESIGNED -	REVISED -
pm\11084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 3\Projects\0366\DRAWINGData\0366F39-sht-details.dgn		CHECKED -	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

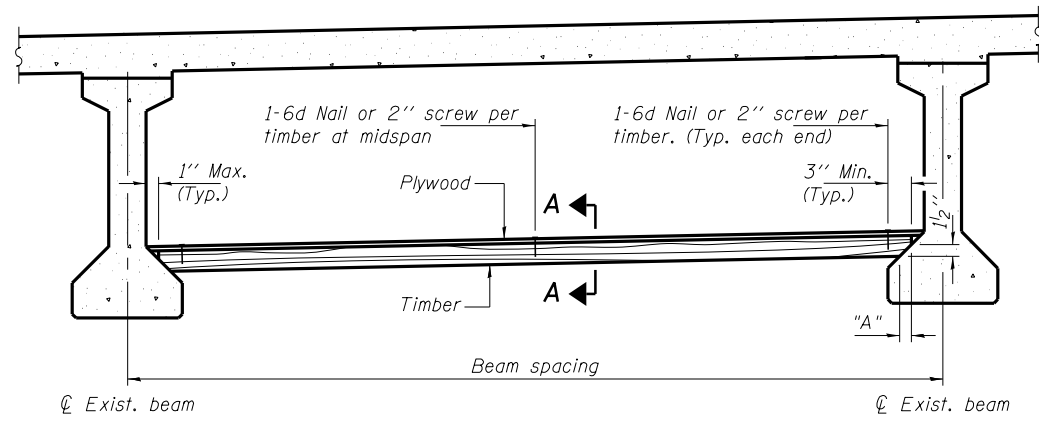
SCALE: SHEET 3 OF 3 SHEETS STA. 48+73.00 TO STA. 51+27.00

SUPERSTRUCTURE DETAILS FOR STRUCTURE NO. 053-0114

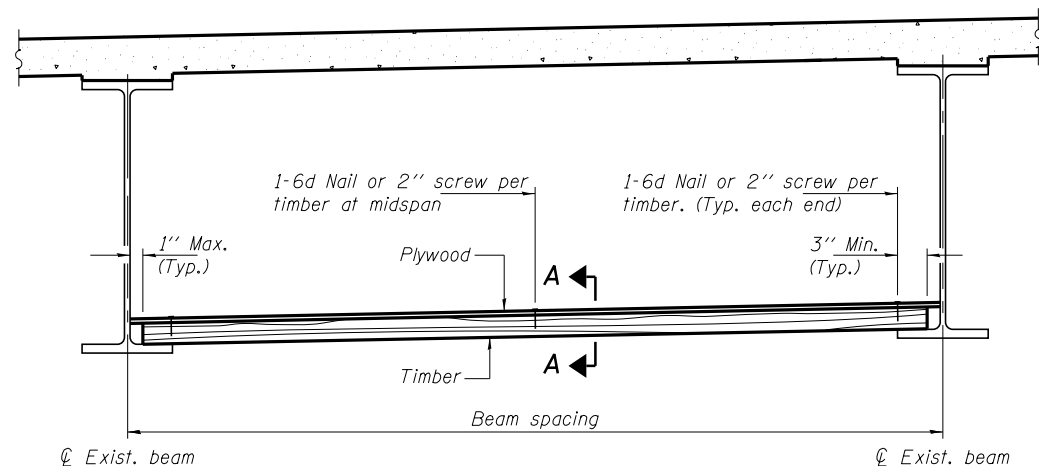
* FAP 649 & FAP 41

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	153-1HBRS	LIVINGSTON	23	17
				CONTRACT NO. 66F39

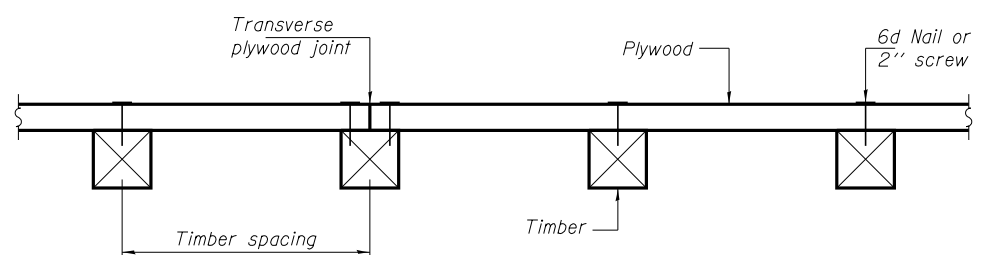
ILLINOIS FED. AID PROJECT



PPC I-BEAMS AND BULB-T's



STEEL BEAMS



SECTION A-A

TIMBER SPACING

Beam Spacing (ft.)	Timber Sizes (in.)		
	4" x 4" with min. Fb=775 psi Fv=135 psi	4" x 6" with min. Fb=775 psi Fv=135 psi	6" x 6" with min. Fb=575 psi Fv=125 psi
	Maximum Timber Spacing (in.)		
4.5	16	16	16
4.75	16	16	16
5.0	16	16	16
5.25	16	16	16
5.5	16	16	16
5.75	16	16	16
6.0	16	16	16
6.25	12	16	16
6.5	12	16	16
6.75	12	16	16
7.0	8	16	16
7.25	8	16	16
7.5	8	16	16
7.75	8	16	16
8.0	8	12	16
8.25	8	12	16
8.5	6	12	12
8.75	6	12	12
9.0	6	8	12

PPC I-BEAMS AND BULB-T's

BEAM	"A"
36" I-Beam	1 1/2"
42" I-Beam	1 1/2"
48" I-Beam	1 1/2"
54" I-Beam	1 5/8"
63" Bulb-T	3 3/8"
72" Bulb-T	3 3/8"

Notes: See special provision for Permanent Protective Shield System.
 Timber sizes shown are nominal sizes. Rough sawn timber of the dimensions shown will also be considered acceptable.
 The minimum Fb and Fv values shown are the tabulated design values given in the National Design Specification for Wood Construction for No. 2 Spruce-Pine-Fir without adjustment factors applied. Better grades or other species with equal or higher allowable stresses will also be considered acceptable.
 The timber spacings shown have been determined using allowable stresses with all adjustment factors necessary for the anticipated service conditions.
 All timber shall be treated.
 Plywood shall be 5/8" rated Exterior type plywood by APA.
 Plywood shall be placed such that the face grain is perpendicular to the timber supports. When less than a full sheet (4' width) of plywood is used, the width of the strip used shall not be less than 2'.
 Transverse plywood joints shall be supported by timbers.
 When 4" x 6" timbers are used, they shall be placed such that the wide face is horizontal and the narrow face is vertical.
 Design load = 200 psf.

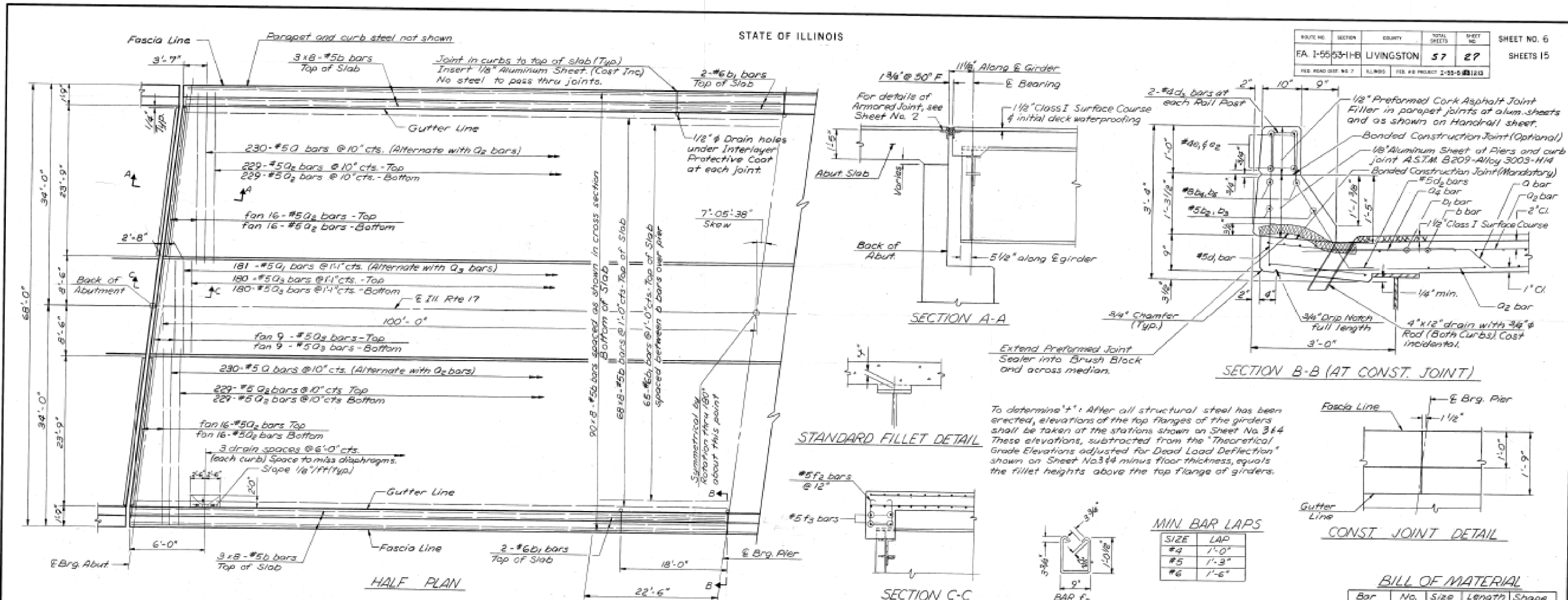
BILL OF MATERIAL

Item	Unit	Total
Protective Shield (Permanent)	Sq. Yd.	1043

PERMANENT PROTECTIVE SHIELD

PPS-1 01-22-09

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. 6
FA 1-5653-1H8	LIVINGSTON	57	27		SHEETS 15
FED. ROAD DIST. NO. 7 ILLINOIS FILE NO. PROJECT 2-95-5-1213					



To determine 't': After all structural steel has been erected, elevations of the top flanges of the girders shall be taken at the stations shown on Sheet No. 364. These elevations, subtracted from the 'Theoretical Grade Elevations adjusted for Dead Load Deflection' shown on Sheet No. 364 minus floor thickness, equals the fillet heights above the top flanges of girders.

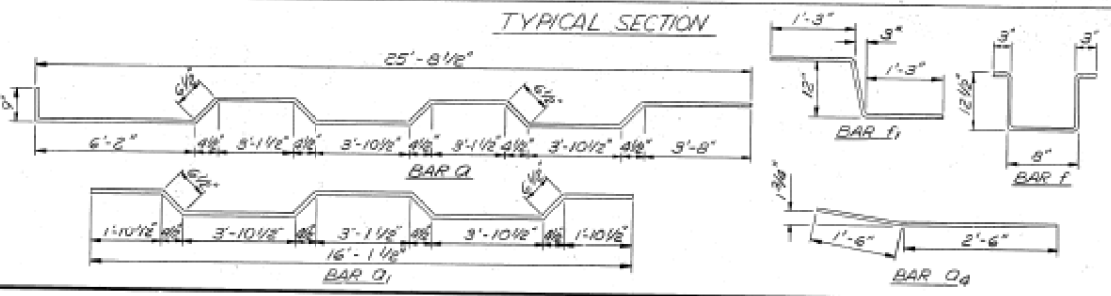
MIN BAR LAPS

SIZE	LAP
#4	1'-0"
#5	1'-3"
#6	1'-6"

BILL OF MATERIAL

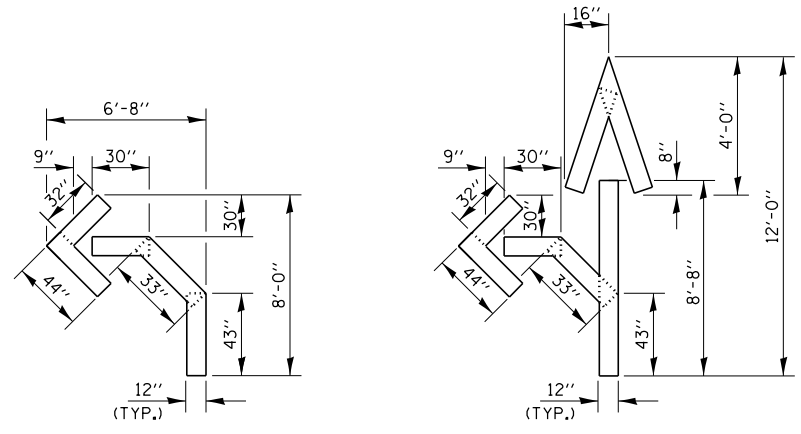
Bar	No.	Size	Length	Shape
Q	460	5	27'-4"	~
Q1	235	5	17'-2"	~
Q2	1042	5	25'-9"	~
Q3	508	5	16'-6"	~
Q4	484	6	4'-0"	~
b	1318	5	26'-2"	~
b1	69	6	45'-0"	~
b2	6	5	17'-8"	~
b3	24	5	28'-6"	~
b4	8	8	17'-8"	~
b5	24	8	29'-0"	~
f	200	6	3'-3"	~
f1	986	5	3'-6"	~
f2	36	5	3'-5"	~
f3	8	5	17'-0"	~
Reinforcement Bars		Lbs.	105,424	
Class X Concrete		C.Y.	369.2	

DESIGNED	P.H. CHHEDA	EXAMINED	19
CHECKED	W.T. SHEARMAN	PASSED	
DRAWN	T.D. HRANEK	APPROVED	
CHECKED	J.J. REHAK		



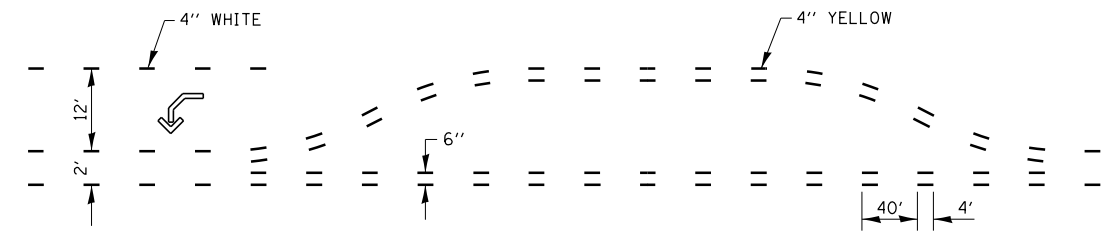
Notes:
 For Floor Drain Details, see Sheet No. 2
 For Camber Diagram, see Sheet No. 9
 For Dead Load Deflection Diagram, see Sheet No. 3
 Do not lap #5b bars directly under or adjacent to Aluminum Sheets.
 For Curb and Parapet reinforcing details, see Sheet No. 7.
 Bars indicated thus: 67 x 5 - #5b bars indicates 67 lines of #5b bars with 5 lengths per line.
 For location of bars d & e and b2 thru b5, see Sheet No. 7.
 For limits of Protective Coat, see Sheet No. 5.

SUPERSI RUCTURE
 ILL.-17 SECT. 53-1 H8
 LIVINGSTON COUNTY
 STA. 244 + 13.83 @ F.A.I.-55

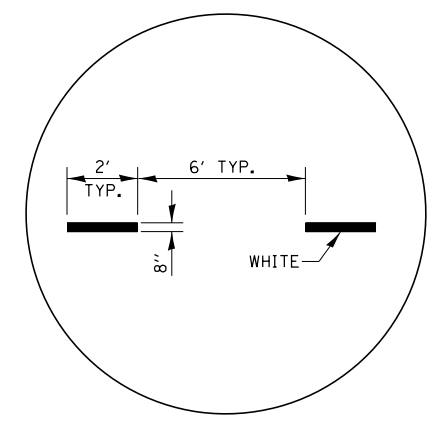


QUANTITY
12" LINE = 16 LIN. FT.
OR 4" LINE = 48 LIN. FT.

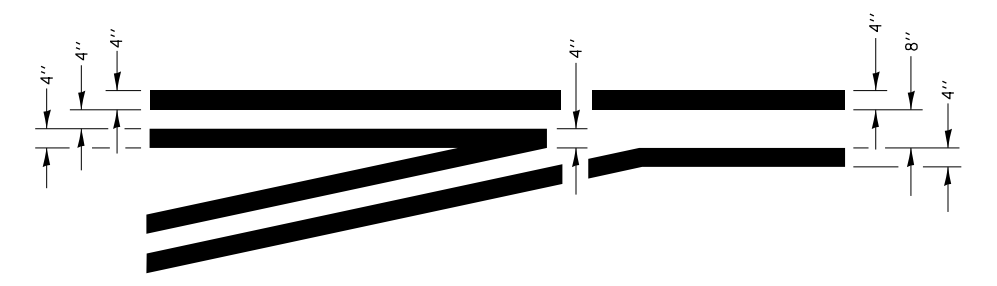
QUANTITY
12" LINE = 29 LIN. FT.
OR 4" LINE = 87 LIN. FT.



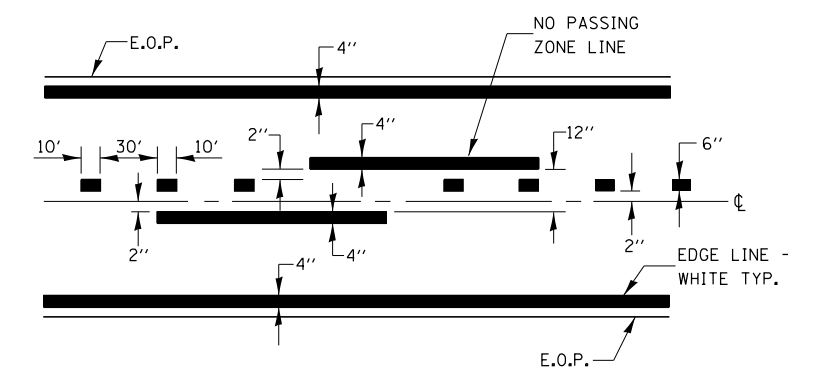
**SHORT-TERM PAVEMENT MARKING
FOR MEDIANS AND ARROWS**



**ADVANCE AND INTERSECTION LANE
DIVIDER LINES**

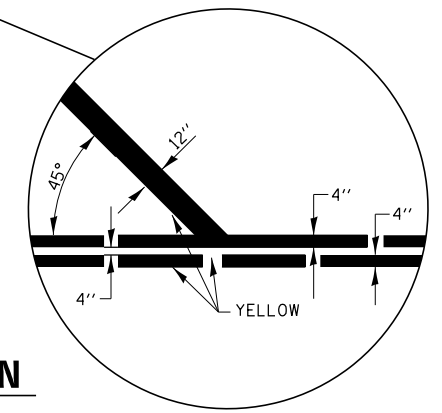
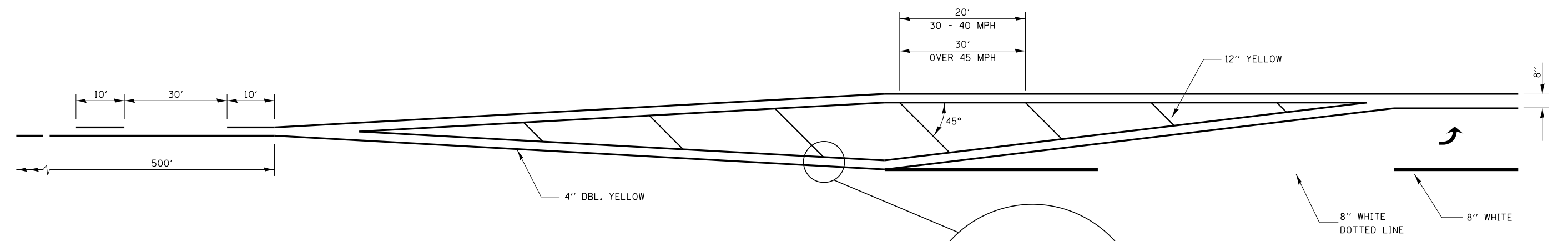


**LEFT TURN LANE
TYPICAL APPLICATION**



CENTERLINE & NO PASSING
ZONE LINES - YELLOW

PAVEMENT MARKING



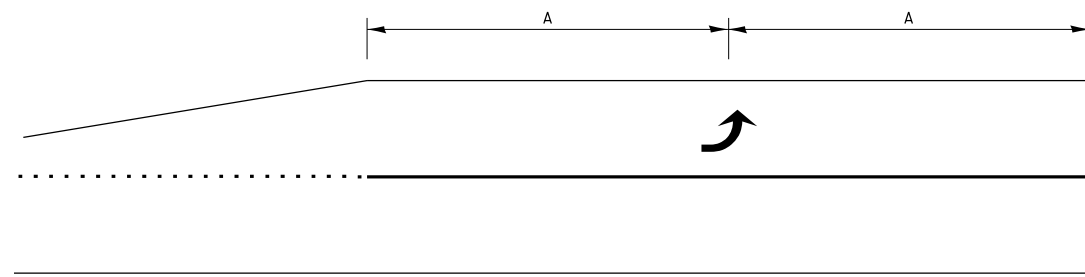
LEFT TURN LANE WITH APPROACH MEDIAN

FILE NAME =	USER NAME = carpenterdj	DESIGNED -	REVISED -
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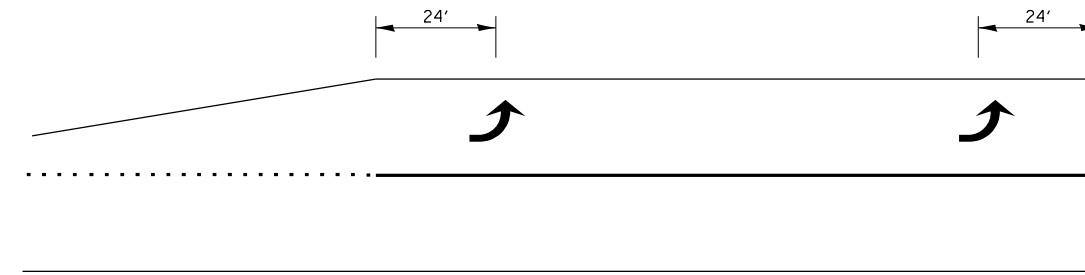
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.

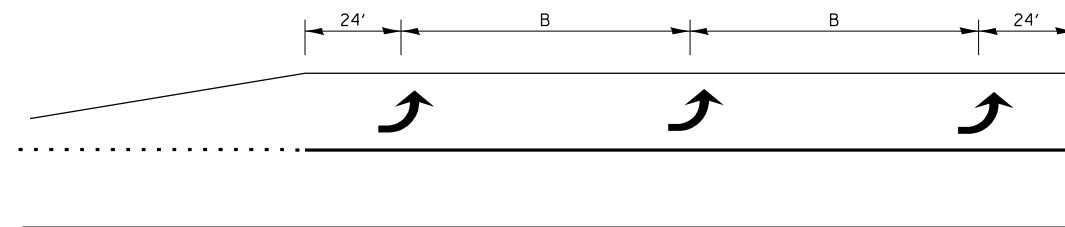
* FAP 649 & FAP 41				
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(16)RS-3	LIVINGSTON	23	21
			CONTRACT NO. 66F39	
ILLINOIS FED. AID PROJECT				



99' AND UNDER

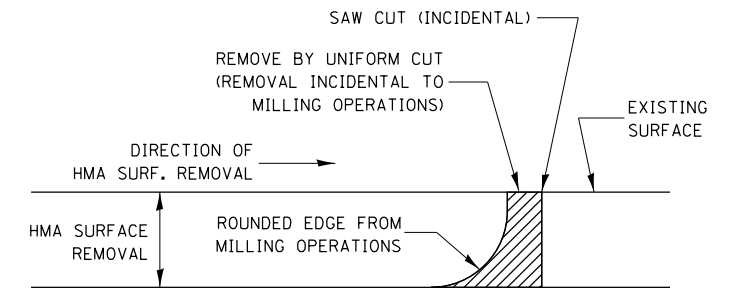


100' TO 149'



150' AND LONGER

**TYPICAL PLACEMENT OF ARROWS
IN TURN LANES**



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

FILE NAME =	USER NAME = carpenterdj	DESIGNED -	REVISED -
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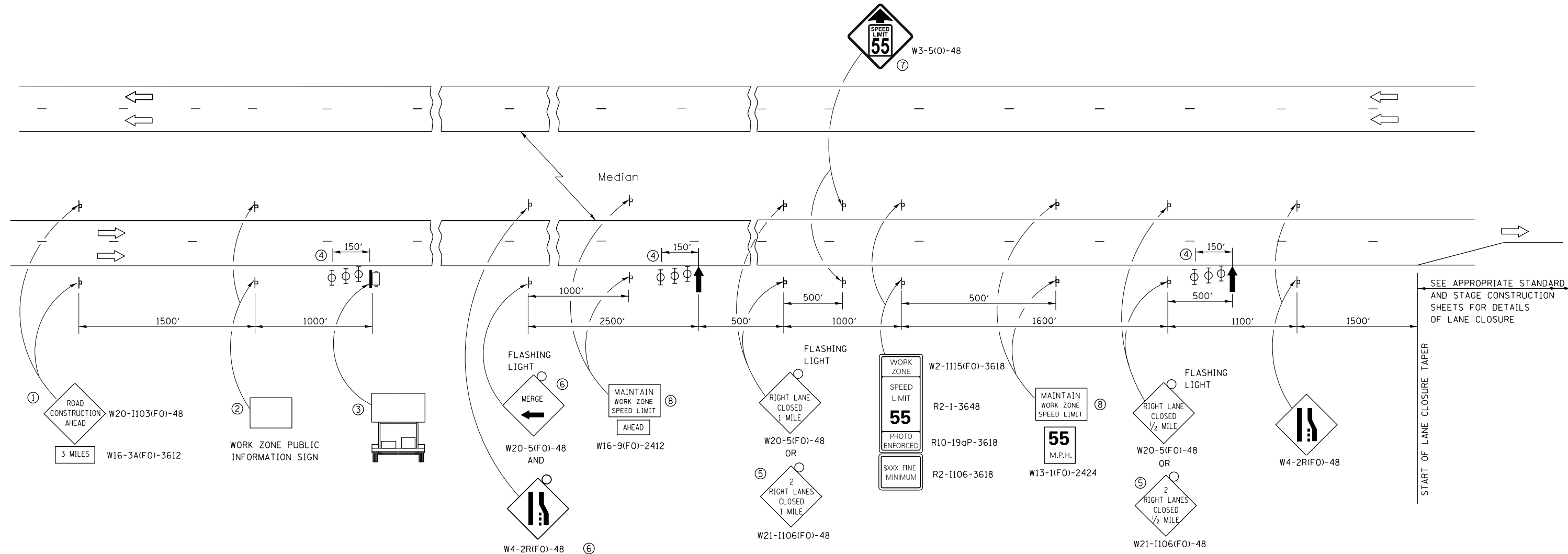
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: SHEET OF SHEETS STA. TO STA.

DETAILS

* FAP 649 & FAP 41

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	(16)RS-3	LIVINGSTON	23	22
			CONTRACT NO. 66F39	
ILLINOIS FED. AID PROJECT				



- ① THE ROAD CONSTRUCTION AHEAD SIGN SHALL BE LOCATED 3 MILES IN ADVANCE OF THE PROJECT LIMITS.
- ② THE MESSAGE AND SIZE OF THE WORK ZONE PUBLIC INFORMATION SIGN SHALL BE AS SPECIFIED BY THE DEPARTMENT.
- ③ TO BE PLACED IN THE MEDIAN WHEN FEASIBLE. THE MESSAGE BOARD SHALL BE USED TO DISPLAY STATUS OF LANES WITHIN THE PROJECT. THE PRIMARY MESSAGES SHALL BE:
 "RIGHT LANE CLOSED" / " x MILES AHEAD"
 "LEFT LANE CLOSED" / " x MILES AHEAD"
 "ALL LANES OPEN"
- ④ THREE, TYPE II BARRICADES, DRUMS, OR VERTICAL BARRICADES AT 50' CENTERS.
- ⑤ THIS SIGN SHALL BE USED WHEN 2 LANES ARE CLOSED.
- ⑥ WHEN THE LEFT LANE IS CLOSED, SWITCH THESE TWO SIGNS AND THE DIRECTION OF THE MERGE ARROW.
- ⑦ THIS SIGN SHALL ONLY BE USED IF THE EXISTING SPEED LIMIT IS GREATER THAN 65 MPH.

⑧ 48"x36" FLUORESCENT ORANGE SIGN WITH BLACK LETTERS.
48"

MAINTAIN	8"
WORK ZONE	6"
SPEED LIMIT	6"

- ↑ ARROW BOARD
- ☐ PORTABLE CHANGEABLE MESSAGE SIGN
- ⊥ SIGN
- ⊕ TYPE II BARRICADE, DRUM, OR VERTICAL BARRICADE WITH MONODIRECTIONAL FLASHING LIGHT

GENERAL NOTE:

THIS STANDARD IS USED WHERE AT ANY TIME A LANE IS CLOSED ON A FREEWAY/EXPRESSWAY.

WHEN THE LEFT LANE IS CLOSED, LEFT LANE CLOSED SIGNS SHALL BE SUBSTITUTED FOR THE RIGHT LANE CLOSED SIGNS.

THE FIRST TWO SIGNS AND THE MESSAGE BOARD ARE STATIONARY. THE OTHER SIGNS AND ARROWBOARDS SHALL BE MOVED AS NECESSARY TO MAINTAIN THE REQUIRED DISTANCE FROM THE START OF THE LANE CLOSURE TAPER(S).

SEE SPECIAL PROVISIONS.