INDEX OF SHEETS 06-14-2019 LETTING ITEN	4 080STATE OF ILLINOIS
 COVER SHEET GENERAL NOTES SUMMARY OF QUANTITIES TYPICAL SECTIONS 	DEPARTMENT OF TRANSPORTATION
910. SCHEDULE OF OUANITITIES 1114. TRAFFIC CONTROL 15. EXISTING & REMOVAL 16. PROPOSED	PROPOSED
725. STRUCTURE DETAILS 6. PROTECTIVE COATING DETAIL 7. HMA APPROACH PROFILE DETAIL 836. DISTRICT 4 STANDARDS	HIGHWAY PLANS
IGHWAY STANDARDS DISTRICT 4 STANDARDS 01001-02 701006-05 406101-D4 40001-D4 12001-02 701011-04 440001-D4 40001-D4 10001-12 701301-04 630101-D4 630101-D4 100301-09 701311-03 780001-D4 40001-D4 10033-07 42006 40001-D4 40001-D4	FAP ROUTE 657 (IL164) SECTION (114–BR–1)BJR,BRR PROJECT STP–3I35(937) BRIDGE REPAIR HENDERSON COUNTY
01201-05 '01321-17 /01326-04 /01901-08 /04001-08 /80001-05	C-94-061-18 PROJECT BEGINS STA. 240+07
RAFFIC COUNT DT 2600 V 2205 U 275 U 120	EXISTING SN 036-0039 DVER HENDERSON CREEK
$\frac{100' 200' 300' - 1'' = 100'}{30' - 1'' = 10'}$ $\frac{10' 20' 30' - 1'' = 10'}{10' - 1' = 10'}$ $50' 100' - 1'' = 50' - 10'' - 1'' = 30' - 1'' = 30' - 1'' = 20'$ ULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD INGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS WILL STANDARD SCALES. IN MAKING MEASUREMENTS	PROJECT ENDS STA. 249+14
J.U.L.I.E. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS 1-800-892-0123 OR 811	
	GROSS LENGTH = 0.17 MILE

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С

CATALOG NO. 035613-00D

CONTRACT NO. 68E26

Ι	F.A.P RTE	SECTION	COUNTY	SHEETS	SHEET NO.
I	657	(114 BR 1009/R.BRR	HENDERSON	35	1
l		Lunois	CONTRACT	NO 60	BEZ6



PROJECT DISCRIPTION: BRIDGE JOINT REPLACEMENT, PIER REPAIR & LATEX OVERLAY TO SN 036-0039 CARRING FAP 657 (IL 164) OVER HENDERSON CREEK, 3 MILES NORTH OF GLADESTONE IN HENDERSON COUNTY.



REV. 5/17/19 REV. 4/30/19

PROPERTY OWNER ACCESS REQUIREMENTS

Access must be maintained to all existing properties during construction per Article 107.09 unless arrangements are made in writing by the Contractor with the property owners with a copy to the Engineer for short-term closures.

CRITICAL PATH WORK SCHEDULE REQUIREMENT

The Contractor will submit to the Engineer a satisfactory progress schedule and critical path schedule which shall show the proposed sequence of work at the time of the pre-construction conference.

ENVIRONMENTAL REVIEWS

Prior to the use of any proposed borrow areas, use areas (temporary access roads, detours, run-arounds, etc.) and/or waste areas, the Contractor shall file the required environmental resource request surveys according to Section 107.22 of the Standard Specifications. These surveys are required in order for the Department to conduct cultural and biological resource surveys for the proposed site.

The required environmental resource documentation shall include the following:

- * BDE Form 2289 (Cultural and Natural Resources Review of Borrow Areas)
- * BDE Form 2290 (Waste/Use Area Review)
- * A location map showing the size limits and location of the use area
- * Color photographs depicting the use area
- * Borrow Area Entry Agreement form D4 PI0101

Prior to any waste materials being removed from the construction site the required environmental resource surveys shall be obtained and filed by the Contractor. Excess waste products removed from the construction site shall be disposed of as required in Section 202.03 of the Standard Specifications.

Any protruding metal bars shall be removed prior to the disposal of broken concrete at approved disposal sites.

Please note that a minimum of four weeks shall be allowed for the District to obtain the required environmental clearances and six weeks for the required borrow site environmental clearances.

BRIDGE OVERLAY NOTIFICATION

After placement of the bridge deck overlay, the Resident Engineer shall notify the District Bridge Maintenance Engineer of the "as constructed" milling depth and overlay thickness for updating the Illinois Highway Information System.

POLYMERIZED BITUMINOUS MATERIALS (TACK COAT) RATES

Surface Type	Residual Rate
Milled (HMA or PCC)	0.08 lb /sq ft
Existing Pavement	0.08 lb /sq ft
Fog Coat (between lifts)	0.08 lb /sq ft

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

Pay Item	HMA SRF CRS, MIX "D", N50	HMA SHOULDERS 8"	HMA SHOULDERS 8"
Thickness	1.5″	1.5″	4" AND 2.5"
Jse	SURFACE COURSE	TOP LIFT	LOWER LIFTS
AC/PC:	64–22	64–22	64–22
Design Air Voids:	4.0% N = 50	4.0% N=50	4.0% N=50
Wixture Composition:	IL 9.5	IL 9.5	IL 19.0
Gradation Mixture)			
Friction Aggregate:	Mix D	Mix D	N.A.
Quality Management:	QC/QA	QC/QA	0C/0A

Notes:

1) Individual lift thickness of each mix type will be no less than 3 times nominal maximum aggregate size and no more than 6 times nominal maximum.

2) For design purposes, mixture weight for all mixes is determined to be 112.0 lb/s.y/in., unless otherwise noted.

3) Sublot sizes for PFP and QCP mixes will be 1,000 tons, unless otherwise agreed to by the Engineer and the paving Contractor.

BUTT JOINT CUTTING TIME RESTRICTION

Butt joints shall not be milled more than three (3) days prior to placement of the HMA surface course.

PAVING SURFACE COURSE

Continuous paving operations on the main roadway shall be maintained at all times during the construction of the hot-mix asphalt surface. No interruptions for side roads, entrances, turn lanes, etc. will be allowed.

SECURING DRAINAGE STRUCTURE GRATES

Prior to routing traffic onto the shoulders as shown in the staging plans, the Constractor shall secure gratings on shoulder inlets as directed by the Engineer. This work will not be paid for separately, but shall be included in the cost of the traffic control pay item.

NO PASSING ZONE VERIFICATION

The resident shall contact Operations to verify the location of no passing zones prior to placement of centerline striping.

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USER NAME = \$USER\$	DESIGNED -	REVISED -								F.A.P.	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS			GEN	ERAL NO	TES		657	(114-BR-1)BJR.BRR	HENDERSON	35	2
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRAC	T NO. 68	3E26
PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE: NONE	SHEET 2	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJECT	STP-3135(9	J37)

				CONST. CODE
				80/20
	T	1	1	FED/STATE
CODE	I TEM		TOTAL	BRIDGE PRES.
NO.	ITEM		QUANTITY	
20200500	EARTH EXCAVATION (WIDENING)	CU YD	52	52
28100125	STONE RIPRAP. CLASS B3	SQ YD	190	190
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)		668	668
10000233				
40600982	HOT - MIX ASPHALT SURFACE REMOVAL - BUTT JOINT		54	54
40600990	TEMPORARY RAMP	SQ YD	46	46
40603335	HOT - MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	78	78
42001300	PROTECTIVE COAT	SQ YD	1993	1993
44000155	HOT - MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	587	587
44213200	SAW CUTS	FOOT	260	260
48203029	HOT - MIX ASPHALT SHOULDERS, 8"	SQ YD	232	232
50102400	CONCRETE REMOVAL	CU YD	7.5	7.5
50300255	CONCRETE SUPERSTRUCTURE	CU YD	8.4	8.4
50300260	BRIDGE DECK GROOVING	SQ YD	1860	1860
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	1320	1320
50800515	BAR SPLICERS	EACH	16	16

USER NAME = \$USER\$	DESIGNED -	REVISED -			F.A.P.	SECTION	COUM		JTAL SH	EET
	DRAWN -	REVISED -	STATE OF ILLINOIS	STATE OF ILLINOIS SUMMARY OF QUANTITIES	657	(114-BR-1)BJR-BR'	R HENDE	RSON	35	3
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				CON	TRACT N	10. 68E	26
PLOT DATE = \$DATE\$	DATE -	REVISED -				ILLINOIS	FED. AID PRO	JECT: STP-	3135(937)	

				CONST. 80/ FED/S
0005			TOTAL	BRIDGE
CODE	TTEM		IOTAL	
NO.			QUANTITY	036-0
52000110	PREFORMED JOINT STRIP SEAL	FOOT	106	10
C0500305		FACIL		
60500305	FILLING INLETS		4	4
63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	176	170
63100089	TRAFFIC BARRIER TERMINAL, TYPE 6B	EACH	4	4
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	676	67
67000500	ENGINEER'S FIELD OFFICE. TYPE B		5	5
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	2	2
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70400707				
10106700	ILEMPORARY RUMBLE SIRIP	EACH	6	6

*= SPECIALTY ITEM

USER NAME = \$USER\$	DESIGNED -	REVISED -			F.A.P.	SECTION	COUNTY	TOTAL	HEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	CUMMARY OF OUANTITIES	657	(114-BR-1)BJR_BRR	HENDERSON	35	4
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	SUMMART OF QUANTITIES			CONTRACT	T NO. 68	E26
PLOT DATE = \$DATE\$	DATE -	REVISED -			P.A.P. RTE. SECTION COUNTY IDIAL SHEETS SHEETS NO. 657 (114-BR-1)BJR,BRR HENDERSON 35 4 CONTRACT NO. 68E2(ILLINOIS FED. AID PROJECT: STP-3135(937)	37)			

					CONST. CODE
					80720 FED/STATE
	CODE			ΤΟΤΑΙ	BRIDGE PRES.
	NO.	ITEM	UNIT	OUANTITY	047
					036-0039
	70300100	SHORT-TERM PAVEMENT MARKING	FOOT	6065	6065
	70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	2022	2022
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	2054	2054
	70400100		FOOT	070	0.7.0
	10400100	IEMPORARY CONCRETE BARRIER	FUUT	928	928
	70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	825	825
	70600250	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3	EACH	2	2
	70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
	72501000		EACH	Λ	4
ጥ	12301000		LACI		
k	78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2054	2054
*	78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	12	12
_	7000011		E A QU	7.	7.1
ĸ	78200011	BARRIER WALL RELFLECIORS, TYPE C	EACH	(1	(1
	X0326444	SURFACE FILLER (SPECIAL)	GALLON	9.8	9.8
	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1370	1370
	X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	160	160

*= SPECIALTY ITEM

USER NAME = \$USER\$	DESIGNED -	REVISED -			F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
	DRAWN -	REVISED -	STATE OF ILLINOIS	SUMMARY OF OUANTITIES	657	(114-BR-1)BJR,BRR	HENDERSON	35	5
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRAC	T NO. 6	8E26
PLOT DATE = \$DATE\$	DATE -	REVISED -				ILLINOIS	FED. AID PROJECT	: STP-31350	(937)

				CONST. CODE
				BRIDGE PRES
	ITEM	UNIT		047
NU.			QUANTITY	036-0039
X5030550	PROTECTIVE COAT (SPECIAL)	SQ YD	392	392
		[
Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	TON	80	80
Z0006012	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4 INCHES	SQ YD	1968	1968
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	1968	1968
		1		
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	34	34
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0023600	FILLING EXISTING CULVERTS	EACH	4	4
		ł		
<u> </u>				
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	DRAWN -	REVISED -	STATE OF ILLINOIS	CUMMARY OF OUANTITIES	657	(114-BR-1)B.IR.BRR	HENDERSON	35	6
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	SUMIMART OF QUANTITIES			CONTRAC	T NO. (8E26
 PLOT DATE = \$DATE\$	DATE -	REVISED -				ILLINOIS	FED. AID PROJECT	: STP-313	(937)



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PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					
PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	5

CONTRACT NO. 68E26 TO STA.



*NORTH ABUTMENT to PIER 4 - 54" PCC I BEAMS *PIER 4 to SOUTH ABUTMENT - 48" PCC I BEAMS

EXISTING ELEMENTS

- A. 7 1/2" SLAB
- B. PCC I BEAMS

BRIDGE TYPICAL SECTION

STA. 241+80 to 247+40

USER NAME = \$USER\$	DESIGNED -	REVISED -								F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET 5 NO
	DRAWN -	REVISED -	STATE OF ILLINOIS			TYPIC	CAL SECTI	ONS		657	(114-BR-1)BJR,BRR	HENDERSON	i 35	8
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							_		CONTRAC	T NO. 6	8E26
PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJ		



STONE RIPRAP, CLASS B3					
LOCATIONS	28100125				
LOCATIONS	SY				
NW QUAD	68				
NE QUAD	53				
SE QUAD	20				
SW QUAD	49				
TOTAL	190				

MOBILI	ZATIÓN
	67100100
LOCATION	LSUM
JOBSITE	1
TOTAL	1

ENGINEER'S FIELD OFFICE, TYPE B				
	67000500			

	67000500
LOCATION	CAL MO
JOBSITE	5
TOTAL	5

FILLING INLETS	
	60500305
LOCATION	EACH
ALL APPROACH INLETS ON S.N. 036-009	4
TOTAL	4

GUARDRAIL AGGREGATE EROSION CONTROL					
	Z0001002				
LOCATION	TON				
STA. 240+25 TO 241+80 LT	20.8				
STA. 240+37 TO 241+80 RT	19.1				
STA. 247+40 TO 248+93 RT	20.5				
STA. 247+40 TO 248+84 LT	19.3				
τοται	80				

CONSTRUCTION LAYOUT					
	Z0013798				
LOCATION	L SUM				
JOBSITE	1				
TOTAL	1				

					TABULATION C	OF RESURFACING QUANTITIE	S		
				44000155	X4401198	40600982	40600295	48203029	40603335
STATION TO STATION			HMA SURFACE	HMA SURFACE REMOVAL,	HMA SURFACE REMOVAL,	POLYMERIZED BITUMINOUS		HMA SURF CSE, MIX "D",	
		STATION	LT/RT	REMOVAL, 11/2"	VARIABLE DEPTH	BUTT JOINT	MATERIALS (TACK COAT)	HIVIA SHOULDERS 8	N50
				CV	CV/	c)/	COLD MILLED SURFACE	CV	TON
			51	51	51	POUND	51	ION	
240+07	TO	240+17	LT AND RT			27			
249+04	TO	249+14	LT AND RT			27			
240+17	TO	241+27	LT AND RT	293.5					
247+94	то	249+04	LT AND RT	293.5					
241+27	то	241+57	LT AND RT		80				
247+64	TO	247+94	LT AND RT		80				
240+07	TO	241+81	LT AND RT				334.1	116.0	39.0
247+40	то	249+14	LT AND RT				334.1	116.0	39.0
	тс	DTAL		587	160	54	668	232	78

SAW CUTS	
LOCATIONS	44213200
LOCATIONS	FOOT
NORTH ABUTMENT	87
PIER 4	87
SOUTH ABUTMENT	87
TOTAL	260

TEMPORARY RAMP	
	44213200
LOCATIONS	SY
240+07	11.6
241+81	11.6
247+40	11.6
249+14	11.6
TOTAL	46

GUARDRAIL SCHEDULE									
	72501000	63200310							
LOCATION	SPBGR, TY A, 6' POSTS	TRAFFIC BARRIER TERMINAL, TYPE 6B	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REFLECTORS, TYPE B	TERMINAL MARKER- DIRECT APPLIED	GUARDRAIL REMOVAL			
	FOOT	EACH	EACH	EACH	EACH	FOOT			
STA. 240+35 TO 240+85 LT			1		1				
STA. 240+85 TO 241+24 LT	39								
STA. 241+24 TO 241+86 LT		1							
STA. 240+47 TO 241+33 RT			1		1				
STA. 240+97 TO 241+33 RT	36								
STA. 241+33 TO 241+95 RT		1							
STA. 248+33 TO 248+83 RT			1		1				
STA. 247+83 TO 248+33 RT	50								
STA. 247+21 TO 247+83 RT		1							
STA. 248+24 TO 248+74 LT			1		1				
STA. 247+73 TO 248+24 LT	51								
STA. 247+11 TO 247+73 LT		1							
NW QUADRANT				3		146			
NE QUADRANT				3		172			
SE QUADRANT				3		173			
SW QUADRANT				3		185			
τοτοι	176	4	4	12	4	676			

	Z0013
LUCATION	L SUI
JOBSITE	1
TOTAL	1

TRAFFIC CONTROL AND PROTECTION, STANI		TRAFFIC CONTROL SU	RVEILLANCE	
	70100450			70103815
LOCATION	L SUM		LOCATION	CAL DAY
	1		JOBSITE	2
TOTAL	1		TOTAL	2
		-		

ROL AND PROTECTION, STANDARD 701321		TRAFFIC CONTROL AND PROTECTION, STANE	DARD 701326
	70100405	LOCATION	70100500
LOCATION	EACH	LOCATION	L SUM
237+88 TO 251+30	1		1
TOTAL	1	TOTAL	1

TRAFFIC CONTROL AND PROTECTION, STANDARD 701321				
	70100405			
LOCATION	EACH			
STA. 237+88 TO 251+30	1			
TOTAL	1			

70100405 EACH 7+88 TO 251+30 1 TOTAL 1	L AND PROTECTION, STANDARD 701321				
EACH 7+88 TO 251+30 1 TOTAL 1		70100405			
7+88 TO 251+30 1 TOTAL 1	JCATION	EACH			
TOTAL 1	7+88 TO 251+30	1			
	TOTAL	1			

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USER NAME = \$USER\$	DESIGNED -	REVISED -								SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	SCHEDULE OF QUANTITIES					657	(114-BR-1)BJR,BRR	HENDERSON	35	9
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						_		CONTRAC	T NO. 6	8E26
PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS	FED. AID PI	ROJECT	

FILL EXISTING CULVERTS	
LOCATION	Z0023600
LOCATION	EACH
NW QUAD	1
NE QUAD	1
SE QUAD	1
SW QUAD	1
TOTAL	4

EAR	TH E	XCAVATIO	N (WIDEN	ING)				
				20200500				
STATION	то	STATION	LT/RT	SY				
240+07	то	241+81	LT AND RT	26				
247+40	то	249+14	LT AND RT	26				
	TOTAL							

TRAFFIC CONTROL ITEMS											
	70106500	70106700	70400100	70400200	78200011	70600250	70600350				
LOCATION	TEMPORARY BRIDGE TRAFFIC SIGNALS	TEMPORARY RUMBLE STRIPS	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	BARRIER WALL REFLECTORS, TYPE C	IMPACT ATTENUATORS, TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3	IMPACT ATTENUATORS, RELOCATE (NON-REDIRECTIVE) TEST LEVEL 3				
	EACH	EACH	FOOT	FOOT	EACH	EACH	EACH				
STA. 239+68 to STA. 240+00						1					
STA. 249+26 to STA. 249+58						1					
STA. 240+36 TO STA. 240+68							1				
STA. 248+82 TO STA. 249+14							1				
STA. 238+38, STA. 238+63, STA. 239+90, STA. 250+55, STA. 250+80	1										
STA. 220+88, STA. 225+88, STA. 230+88, STA. 258+30, STA. 263+30, STA. 268+30		6									
STA. 240+00 TO STA. 249+38			938		38						
STA. 240+60 TO STA. 248+85				825	33						
TOTAL	1	6	938	825	71	2	2				

	PAVEMENT MARKINGS													
LO	CATI	ON	70300100	70300150	X0327980	70300220	78009004							
STA	то	STA	SHORT-TERM PAVEMENT MARKING	A SHORT TERM PAVEMENT PAVEMENT MARKING REMOVAL TEMPORARY I MARKING REMOVAL - WATER BLASTING MARKING		TEMPORARY PAVEMENT MARKING - LINE 4"	MODIFIED URETHANE PAVEMENT MARKING - LINE 4''							
			FOOT	FOOT	SF	FOOT	FOOT							
S	TAG	1												
238+48	TO	251+20	1272	424										
240+54	TO	249+02	848	283										
STO	ор в	٩RS	216	72										
S	TAG	2												
239+13	TO	249+87	1074	358										
240+93	TO	248+43	750	250										
PAVIN	G SKI	P-DASH	91	30										
PAVING	s sol	ID EDGE	1814	605										
240+07	ТО	249+14			1370	2054	2054							
Т	TOTALS 6065		6065	2022	1370	2054	2054							

USER NAME = \$USER\$	DESIGNED -	REVISED -								F.A.P. RTE	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS			SCHEDULI	e of Qu	ANTITIES		657	(114-BR-1)BJR,BRR	HENDERSON	35	10
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							I		CONTRAC	T NO. 6	8E26
PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID P	ROJECT	



USER NAME = \$USER\$	DESIGNED -	REVISED -				TRAFE	
	DRAWN -	REVISED -	STATE OF ILLINOIS	1		INAII	
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	1		3	STAGE I
PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS



EL: \$MODELNAME NAME: \$FILEL\$

USER NAME = \$USER\$	DESIGNED -	REVISED -				TRAFF	FIC CON	TROL		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -				5	STAGE II			657	(114-BR-1)BJR,BRR	HENDERSON	35	12
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRACT	NO. 61	E26
PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PRO	.01.	



*NORTH ABUTMENT to PIER 4 - 54" PCC I BEAMS *PIER 4 to SOUTH ABUTMENT - 48" PCC I BEAMS

EXISTING ELEMENTS

- A. PCC I BEAMS
- B. 7 1/2" SLAB

TRAFFIC CONTROL DETAIL - STAGE I

(LOOKING NORTH) STA. 241+80 to 247+40

USER NAME = \$USER\$	DESIGNED -	REVISED -			т	BAFFIC	CONTRO			F.A.P. RTE	SECTION	COUNTY	TOTAL SHEET	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS		•		STAGE I			657	(114-BR-1)BJR,BRR	HENDERSON	35	13
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				011132 1					CONTRAC	T NO. F	8E26
PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJ.		

PROPOSED IMPROVEMENTS

- 1. BRIDGE DECK SCARIFICATION 3/4"
- 2. BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/4"
- 3. PROTECTIVE COAT (SPECIAL)



(LOOKING NORTH) STA. 241+80 to 247+40

USER NAME = \$USER\$	DESIGNED -	REVISED -		TRAFFIC CONTROL DETAIL Stage II					F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
	DRAWN -	REVISED -	STATE OF ILLINOIS							657	(114-BR-1)BJR,BRR	HENDERSON	35	14			
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION						011.02 1		•				CONTRACT	F NO. 68	E26
PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS	FED. AID PROJ.					



DEL: \$MOD



DDEL: \$MOD F NAMF: \$F



<u>PLAN</u>

(A) - Remove existing Expansion Joint and install new Preformed Joint Strip Seal.

- ⟨B⟩ Install new 2¼" Latex Overlay on the existing deck. See sheet 2 of 9 for details.
- $\langle C \rangle$ Structural Repair of Concrete

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. 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.

Reinforcement bars designated (E) shall be epoxy coated.

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

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

Synthetic fibers shall be added to the Bridge Deck Latex Concrete Overlay, see Special Provisions.

The Contractor shall use extreme care during concrete removal so as not to damage the PPC I-Beam.

Traffic will be maintained using stage construction.



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TOTAL BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	7.5
Concrete Superstructure	Cu. Yd.	8.4
Preformed Joint Strip Seal	Foot	106
Reinforcement Bars, Epoxy Coated	Pound	1320
Bridge Deck Scarification, 3/4"	Sq. Yd.	1968
Bridge Deck Latex Conc. Overlay, 21/4"	Sq. Yd.	1968
Bridge Deck Grooving	Sq. Yd.	1860
Bar Splicers	Each	16
Structural Repair of Concrete (Depth \leq 5")	Sq. Ft.	34
Protective Coat	Sq. Yd.	1993
Protective Coat (Special)	Sq. Yd.	392
Surface Filler (Special)	Gallon	9.8

* Apply to new concrete and overlay only.

** Apply to existing parapets only.

DELEVATION	F.A.P. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
ERSON CREEK	657 (114-BR-1) BJR,BRR			२	HENDERSON	35	17
					CONTRACT	NO. 68E	26
SHEETS			ILLINOIS	FED. AI	D PROJECT		



	1					FAD				SHEET
DESIGNED - JOV	EXAMINED	mot A All 4	DATE - MAY 7, 2019		CROSS SECTIONS & STAGING DETAILS		SECTION	COUNTY '	SHEETS	NO.
CHECKED - SMR		ENGINEER OF STRUCTURAL SERVICES		STATE OF ILLINOIS		657	(114-BR-1) BJR.BRR	HENDERSON	35	18
DRAWN - daburdell	PASSED	A Carl Prover	REVISED -	DEPARTMENT OF TRANSPORTATION	SN 036-0039		(CONTRACT	F NO. 68	E26
CHECKED - JOV SMR		ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET NO. 2 OF 9 SHEETS		ILLINOIS FED. A	ID PROJECT		
CHECKED - JOV SIVIN		ENGINEER OF BRIDGES AND STRUCTURES	REVISED -				ILLINOIS FED. A	D PROJECT		





			-				
S - NORTH ABUTMENT		SECTION		COUNTY	TOTAL SHEETS	SHEET NO	
		(114-BR-1) BJR,BRR			HENDERSON	35	19
039	CONTRACT NO. 68					NO 68E	26
) SHEETS			ILLINOIS	FED. AIL	D PROJECT		



Details - Pier 4	F.A.P. RTE SECTION			COUNTY	SHEET NO.			
039		57 (114-BR-1) BJR,BRR			HENDERSON 35		20	
039	CONTRACT NO. 6					NO. 68E	26	
SHEETS			ILLINOIS	FED. A	D PROJECT			



						-		
S - SOUTH ABUTMENT		SECTION		COUNTY	TOTAL SHEETS	SHEET NO		
		(114-BR-1) BJR,BRR			HENDERSON	35	21	
039	· · · ·				CONTRACT NO. 68E26			
SHEETS			ILLINOIS	FED. AIL	D PROJECT			







3'-2"

21/4"

<u>BAR d(E)</u>

DESIGNED - JOV	EXAMINED	Timot A All H	DATE - MAY 7, 2019		JOINT REPLACEMENT DETAILS	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET
CHECKED - SMR DRAWN - daburdell	PASSED	ENGINEER OF STRUCTURAL SERVICES	REVISED -	DEPARTMENT OF TRANSPORTATION	SN 036-0039	657	(114-BR-1) BJR,BRR	HENDERSON	4 35 T NO. 68	22 E26
CHECKED - JOV SMR		ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET NO. 6 OF 9 SHEETS		ILLINOIS FED.	AID PROJECT		



<u>BAR d(E)</u>

6"

BILL OF MATERIAL (2 ABUTS. & 1 PIER)

Bar	No.	Size	Length	Shape
a(E)	8	#7	15'-7''	
a1(E)	8	#7	19'-9''	
a2(E)	24	#6	4'-0''	
a3(E)	8	#6	15'-7''	
a4(E)	8	#6	19'-9''	
d(E)	24	#4	4'-11''	L
d1(E)	24	#5	3'-11''	L L
Concrete	Removal		Cu.Yd.	7.5
Concrete	Superstr	ucture	Cu.Yd.	8.4
Bar Splice	ers	Each	16	
Reinforce Epoxy Coa	ment Bar ated	s,	Pound	1320



The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4¹/₂" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $\frac{3}{6}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

Cost of parapet sliding plates, embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

34" F-shape barrier shown, 42" F-shape similar as noted. The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	106

						-	
STRIP SEAL		SEC	SECTION		COUNTY	TOTAL SHEETS	SHEET NO
039	657	7 (114-BR-1) BJR,BRR			HENDERSON	35	23
	CONTRACT				NO 68E	26	
) SHEETS			ILLINOIS	FED. AIL	AID PROJECT		



Threaded splicer bar length = min. lap length + $1\frac{1}{2}$ " + thread length

* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum Iap length
N. Abut. (Backwall)	#6	4	4'-0''
N. Abut. (Deck)	#7	2	4'-2''
Pier 4	#7	4	4'-2''
S. Abut. (Backwall)	#6	4	4'-0''
S. Abut. (Deck)	#7	2	4'-2''



INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.

"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E) : Indicates epoxy coating.

6'-0" Abutment Approach slab hatch block Threaded Threaded splicer couplers (E) bar (E) mui BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS No. required = Threaded splicer bar (E)

BSD-1 2-	-17-2017							
DESIGNED - JOV	EXAMINED	I mote A And the	DATE - MAY 7, 2019		BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS	F A P RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.
CHECKED - SMR		ENGINEER OF STRUCTURAL SERVICES		STATE OF ILLINOIS	SN 036-0039	657	(114-BR-1) BJR,BRR	HENDERSON 35 24
DRAWN - daburdell	PASSED	& Carl Prayey	REVISED -	DEPARTMENT OF TRANSPORTATION	514 050-0059	_		CONTRACT NO. 68E26
CHECKED - JOV SMR		ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET NO. 8 OF 9 SHEETS		ILLINOIS FED. 4	D PROJECT



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars. Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications. See approved list of bar splicer assemblies and mechanical splicers for alternatives.



DESIGNED - JOV	EXAMINED	Timot A. Ahl It	DATE - MAY 7, 2019		PIER 4 CONCRETE REPAIR	F A P RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET
CHECKED - SMR DRAWN - daburdell	PASSED	ENGINEER OF STRUCTURAL SERVICES	REVISED -	DEPARTMENT OF TRANSPORTATION	SN 036-0039	657	(114-BR-1) BJR,BRR	HENDERSON CONTRAC	1 35 T NO. 68	25 E26
CHECKED - JOV SMR		ENGINEER OF BRIDGES AND STRUCTURES	REVISED -		SHEET NO. 9 OF 9 SHEETS		ILLINOIS FED.	AID PROJECT		



EAST END VIEW

BILL OF MATERIAL

Item	Unit	Total
Structural Repair of Concrete (Depth \leq 5")	Sq. Ft.	34



BRIDGE PARAPET (EXISTING AND PROPOSED)

NOTE:

- PROTECTIVE COAT TO COVER FROM POINT A THROUGH POINTS B, C, AND D OF THE PROPOSED PARAPET. 1.
- PROTECTIVE COAT (SPECIAL) TO COVER FROM POINT A THROUGH POINTS B, C, AND D OF THE EXISTING PARAPET. 2.

USER NAME = \$USER\$	DESIGNED - CEJ	REVISED -								F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN - 05-15-2018	REVISED -	STATE OF ILLINOIS	PARAPET PROTECTIVE COATING DETAIL				IL	657	(114-BR-1)BJR,BRR	HENDERSON	i 35	26	
 PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRACT	T NO. 68	3E26
PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



USER NAME = \$USER\$	DESIGNED -	REVISED -							F.A.P. RTE	SECTION	COUNTY	TOTAL	SHEET NO.
	DRAWN -	REVISED -	STATE OF ILLINOIS			HMA PA	VEMENT PROFILE		657	(114-BR-1)BJR,BRR	HENDERSON	1 35	27
PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								CONTRAC	T NO. 6	8E26
PLOT DATE = \$DATE\$	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



CASE 1 : WITH HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

	I	AFER RATES	
SPECIAL NOTE	ELEMENT	MAINLINE INTERSTATES &	ALL
NUMBER		4-LANE EXPRESSWAYS	OTHERS
1	BUTT JOINT	1:480	1:240
_	TAPER RATE		
2	TEMPORARY RAMP	1:80	1:40
	TAPER RATE		

TABLE A TAPER RATES



CASE 2 : NO HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING)

01-01-9	7 RENUM. C-23.01, NEW REVISION BOX	T.P.	08-21-13 MAJOR MODIFICATIONS	R.D.				F.A.P.	SECTION	COUNTY	TOTAL SHEFTS	HEET
04-01-9	7 CORRECTION TO DEPTH	J.A.	02-29-16 MINOR CORRECTIONS	R.D.	STATE OF ILLINOIS	BUTT JOINTS		657	(114-BR-1)BJR.BRR	HENDERSON	35	28
09-15-0	5 REVISED DESIGNER NOTE	M.M.A.	04-12-16 MINOR CORRECTIONS	R.D.	DEPARTMENT OF TRANSPORTATION		SHT. 1 OF 3			CONTRAC	T NO. 68	E26
10-16-0	6 REVISED TO 2007 SPEC.	M.A.	02-14-17 ADDED NOTE 5	R.D.		NOT TO SCALE	CADD STD. 406101-D4	FED. ROAD	DIST. NO. ILLINOIS FED. A	D PROJECT		

GENERAL NOTES

1. The work shall be done in accordance with Article 406.08 and the Special Provision for Butt Joints.

2. The pavement surface to be removed may be either bituminous or P.C. concrete. The work shall be performed in accordance with Article 440.04 and the Special Provisions for Butt Joints.

3. The saw cut joints shall be primed just prior to the placing of bituminous material. The work will be in accordance with the applicable portions of Article 406.05.

4. The length of butt joint is based on the taper rate times change in cold miling depth within the butt joint pay limits, unless otherwise indicated.

5. Temporary ramps are paid for separately and not included in the cost of the butt joints.



CASE 3 : HOT MIX ASPHALT SURFACE REMOVAL (COLD MILLING) TIE-IN TO EXISTING BITUMINOUS TAPER



				F	RTE. SECTION	COUNTY TOTAL SHEET SHEETS NO.
		STATE OF ILLINUIS	BULL JOINTS		657 (114-BR-1)BJR,BRR	HENDERSON 35 29
		DEPARTMENT OF TRANSPORTATION		SHT. 2 OF 3		CONTRACT NO. 68E26
			NOT TO SCALE CADE	D STD. 406101-D4	ED. ROAD DIST. NO. ILLINOIS FED. A	ID PROJECT



Prop. Hot Mix Asphalt surf. removal (cold milling) per plans.

			F.A.P. RTE.	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
NIS			657	(114-BR-1)BJR,BRR		HENDERSON	35	30
		SHT. 3 OF 3					CONTRACT	NO. 6	8E26
	CADD	STD. 406101-D4	FED. RO	DAD DIST. NO.	ILLINOIS FE	ED. AI	D PROJECT		
	CADD	STD. 406101-D4	FED. RO	DAD DIST. NO.	ILLINOIS FE	ED. AI	D PROJECT		



	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
INIOVAL (COLD MILLING)	657	(114-BR-1)BJR,BRR	HENDERSON	35	31
			CONTRACT	NO. 6	8E26
CADD STD. 440001-D4	FED. RC	DAD DIST. NO. ILLINOIS FED. A	D PROJECT		



GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL

- 2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
- 3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
- 4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
- 5. The Contractor shall have the option of placing the guardrail before or filled and the aggregate returned to line and grade.
- 6. Materials shall meet the following requirements:
- A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
- B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.

after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be

50'-0'' (15.2m) typ.

material (HMA or	Aggregate)
(0.3m)	
	V

Guardrail Aggregate Erosion Control

	F.A.P. RTE	SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.
IROL IREATMENTS	657	(114-BR-1)BJR,BRR	HENDERSON	35	32
SHT. 1 OF 2				CONTRACT	NO. 6	8E26
CADD STD. 630101-D4	FED. RC	DAD DIST. NO.	ILLINOIS FED. AI	D PROJECT		





08-02 ADD CROSSWALK DMNS. WITH T.S.

M.A.

DEPARTMENT OF TRANSPORTATION NOT TO SCALE

					SEC	TION	COUNTY	TOTAL SHEETS	SHEET NO.
MARKINGS			657	(114-BR-	DBJR,BRR	HENDERSON	35	34	
		S	HT.1 OF 2				CONTRACT	NO. 6	8E26
	CADD	STD.	780001-D4	FED. R	DAD DIST. NO.	ILLINOIS FED. A	D PROJECT		



IGE	CONTINUOUS	(Includes Width Transitions for Median and Left Turn Lane Introductions)
km∕h)	50' (15m)	15' (5m)
km∕h)	75' (23m)	20' (6m)
1)	150' (46m)	30' (9m)

				F.A.P. SECTION				COUNTY	TOTAL SHEETS	SHEET NO.			
MARKINGS				657		(114-BR-1)BJR,BRR					HENDERSON	35	35
	IT. 2 OF 2							CONTRACT NO. 68E26					
	CADD	STD.	780001-D4	FED.	ROAD	DIST.	NO.	ILLINOIS	FED.	AID	PROJECT		
	CADD	STD.	780001-D4	FED.	ROAD	DIST.	NO.	ILLINOIS	FED.	AID	PROJECT		