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THIS IMPROVEMENT IS LOCATED IN THE CITY OF BLUE ISLAND STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

FAI ROUTE 57: I-57 OVER CAL-SAG CHANNEL SECTION 2013-025-I BRIDGE JOINT REPAIR COOK COUNTY

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CONTRACT NO. 60W60







PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX STANDARDS

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CLASS A PATCHES

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- APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
- LANE CLOSURE, FREEWAY/EXPRESSWAY
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- APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY TRAFFIC CONTROL DEVICES
- TEMPORARY CONCRETE BARRIER
- SAND MODULE IMPACT ATTENUATORS

- AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITY OF BLUE ISLAND.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

USE *8 EPOXY-COATED TIE BARS, CONFORMING TO ART. 1006.10 OF THE STANDARD SPECIFICATIONS, FOR ALL TIE BARS, USE THE "LONGITUDINAL CONSTRUCTION JOINT (TIE BAR GROUTED IN PLACE)" DETAIL SHOWN ON HIGHWAY STANDARD 420001 FOR ALL LONGITUDINAL JOINTS.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

ENGINEER.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISORAT (847)705-4151 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE ENGINEER SHALL CONTACT REGINA COOPER, AREA TRAFFIC FIELD ENGINEER AT (847) 705-4153 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

FOR WORK OUTSIDE THE LIMITS OF BRIDGE APPROACH PAVEMENT. ALL REFERENCES IN THE HIGHWAY STANDARDS AND STANDARD SPECIFICATIONS FOR REINFORCEMENT. DOWEL BARS AND TIE BARS IN PAVEMENT, SHOULDERS, CURB, GUTTER, COMBINATION CURB AND GUTTER AND MEDIAN, AND CHAIR SUPPORTS FOR CRC PAVEMENT, SHALL BE EPOXY COATED, UNLESS NOTED ON THE PLAN.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

CONCRETE SUPERSTRUCTURE SHALL HAVE A SEVEN DAY MINIMUM CURE.

THE DEPARTMENT HAS DETERMINED THAT IN STREAM WORK IS NOT REQUIRED FOR THE WORK SPECIFIED IN THIS CONTRACT. THE DEPARTMENT HAS NOT OBTAINED A 404 PERMIT, IF THE CONTRACTOR CHOOSES TO USE ACTIVITIES REQUIRING AN USACE 404 PERMIT IT IS THE CONTRACTOR'S RESPONSIBILITY TO SECURE THE PROPER USACE PERMITS.

STAGING PURPOSES.

HMA MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR	٧O	IDS	@ NDES
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm) (2")	47	Q	70	GYR

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SOYD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-28" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

NOTE: CONTRACTOR SHALL MILL AND RESURFACE EXISTING RUMBLE STRIP FOR TRAFFIC STAGING OF WORK

FILE NAME s c:\pv_vork\pv(dat\hordnattbr\c8345314\D	USER NAME i herdnettbr 34313-sht-plan.dgn	DESIGNED - DRAWN -	REVISED - REVISED -	STATE OF ILLINOIS	(410F)/	I-57 OVER CAL-SAG
	PLOT SCALE = 108.0000 1/ 10.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	INDEX	UF SHEET, STATE STANDARDS
	PLOT DATE • 8/38/2013	DATE -	REVISED -		SCALE: 1"=50"	

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION. THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC. TELEPHONE

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE

HMA SURFACE COURSE N70 WILL BE USED TO RESURFACE RUMBLE STRIP AREAS FOR

HANNEL	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
& GENERAL NOTES	57	2013-025-1	соок	23	Z
			CONTRACT	NO. 6	0₩60
A. IU SIA.	FED. RO	AD DIST. NO. ILLINOIS FED. A	ID PROJECT		

	SUMMARY OF QUANTITIES		URBAN		CONSTRUCTIO	N TYPE CODE			SUMMARY OF QUANTITIES		URBAN	
CODE NO	ITEM	UNIT	TOTAL	100 % STATE				CODE NO	ITEM	UNIT	TOTAL	STATI
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D". N70	TON	74	74				70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	1450	1450
								7060025/	A INDACT ATTENHATORS TEMPODARY (NON-	FACH	2	2
44000157	HOT-MIX ASPHALT SURFACE REMOVAL, 2"	SQ YD	653	653				1000023	REDIRECTIVE), TEST LEVEL 3			-
44200610	CLASS A PATCHES. TYPE II. 13 INCH	SO YD	8	8				70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
44213000	PATCHING REINFORCEMENT	SQ YD	8	8			*	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4	" F00T	6559	6559
50102400	CONCRETE REMOVAL	CU YD	41,7	41.7				4 78008220) POLYUREA PAVEMENT MARKING TYPE I - LINE	5" F00T	1640	1640
50300255	CONCRETE SUPERSTRUCTURE	CU YD	42.5	42.5				¢ 78008250) POLYUREA PAVEMENT MARKING TYPE I - LINE 1	2" F00T	686	686
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	9100	9100			*	78100300	REPLACEMENT REFLECTOR	EACH	165	165
50800515	BAR SPLICERS	EACH	72	72			***	X 78200530	BARRIER WALL MARKERS, TYPE C	EACH	110	110
52000110	PREFORMED JOINT STRIP SEAL	FOOT	240	240				78300100	PAVEMENT MARKING REMOVAL	SG FT	6413	6413
64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	4402	4402				X701101	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	LSUM	1	1
67000400) ENGINEER'S FIELD OFFICE. TYPE A	CAL MO	6	6				X703003(WET REFLECTIVE TEMPORARY TAPE TYPE III. 4 INCH	FOOT	13118	13118
67100100) MOBILIZATION	L SUM	1	1				x703003	WET REFLECTIVE TEMPORARY TAPE TYPE III. 5 INCH	FOOT	1640	1640
x7013820	TRAFFIC CONTROL SURVEILLANCE (EXPRESSWAYS)	CAL DA	35	35				20001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SO YD	16	
7010680(CHANGEABLE MESSAGE SIGN	CAL MO	2	2				2001600	I DECK SLAB REPAIR (FULL DEPTH. TYPE I)	SQ YD	51	51
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SO FT	5057	5057				Z001620	DECK SLAB REPAIR (PARTIAL)	SO YD	182	182
70400100	D TEMPORARY CONCRETE BARRIER	FOOT	1450	1450				2001801	0 DRAINAGE SCUPPERS, DS-33	EACH	6	6
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	URBAN			C	ONSTRL	JCTI	ON TYPE	CODE]
UNIT	TOTAL QUANTITIES	100% STATE								
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FOOT	1450	1450								
EACH	2	2								

EACH	2	2								
5007	6559	6550			·- · · ······					
F Q U I	6555	6733								
FOOT	1640	1640								
FOOT	686	686								
EACH	165	165								
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EACH	110	110			·····				-	
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50 FT	6413	5413								
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FOOT	1640	1640								
SO YD	16	16								
50 YD	51	51							-	
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SU TU	182	182								
EACH	6	6	l		*	SP	ECIALTY	ITEM	L	
F OUANT	THES			F.A.I. RTE. 57	<u> </u>	SEC 2013-	TION 025-1	COUNTY COOK	IOTAL SHEETS 23	SHEET NO. 3
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G CHANNEL	F.A.I. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
ELEVATION	57	2013-025-1	COOK	23	4
.N. 015-0065			CONTRACT	NO. 6	0₩60
STA. TO STA.		ILLINOIS FED. A	D PROJECT		********



CROSS SECTION

SN. 016–0064 LOOKING SOUTH SN. 016–0065 LOOKING NORTH

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 ADJUSTMENT PRIOR TO CONSTRUCTION OR ORDERING OF MATERIALS. SUCH VARIATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANCE IN SCOPE OF THE WORK, HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.

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.

AREA OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON AS-BUILT PLANS.

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.

PRIOR TO POURING THE NEW CONCRETE DECK, ALL HEAVY OR LOOSE RUST, LOOSE MILL SCALE, AND OTHER LOOSE OR POTENTIALLY DETRIMENTAL FOREION 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.

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

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

THE EXISTING STRUCTURAL STEEL COATING CONTAINS LEAD. THE CONTRACTOR SHALL TAKE APPROPRIATE PRECAUTIONS TO DEAL WITH THE PRESENCE OF LEAD ON THIS PROJECT.

THE DECK SURFACE SHALL HAVE ITS FINAL FINISH TINED ACCORDING TO ARTICLE 420.09(e)(1) OF THE STANDARD SPECIFICATIONS. COST INCLUDED WITH CONCRETE SUPERSTRUCTURES.

DRAINS SHALL BE LOCATED CLEAR OF ALL DIAPHRAGMS.

DO NOT SCALE DIMENSIONS.

FILE NAME =	USER NAME = dahhanr	DESIGNED - MVT	REVISED -			I-57 OVER CAL-SAG CHANNEL	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
c:\pw_work\pwidot\dahhanr\d0101671\016-0	64.dgn	DRAWN - MVT	REVISED -	STATE OF ILLINOIS		CROSS SECTION AND DETAILS	57	2013-025-I	СООК	23	5
	PLOT SCALE = 100.0000 ' / in.	CHECKED RAD	REVISED -	DEPARTMENT OF TRANSPORTATION		S.N. 016–0064 AND S.N. 016–0065			CONTRACT	NO. 6	0000
Default	PLOT DATE = 9/9/2013	DATE 8-30-13	REVISED -		SCALE:	SHEET 2 OF 12 SHEETS STA. TO STA.		ILLINOIS FED.	AID PROJECT		

TOTAL BILL OF MATERIALS

ITEM	UNIT	SN. 016-0064 QUANTITY	SN. 016-0065 QUANTITY	TOTAL
FORCEMENT BARS (EPOXY COATED)	POUND	4480	4620	9100
CRETE REMOVAL	CU. YD.	20.6	21.1	41.7
CRETE SUPERSTRUCTURE	CU. YD.	20.7	21.8	42.5
FORMED JOINT STRIP SEAL	FOOT	120	120	240
ROACH SLAB REPAIR (PARTIAL DEPTH)	SQ. YD.	16		16
SLAB REPAIR (PARTIAL)	SQ. YD.	87	95	182
(SLAB REPAIR (FULL DEPTH)	SQ. YD.	16	35	51
SPLICERS	EACH	36	36	72
NAGE SCUPER, DS-33	EACH	3	3	6



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	PLOT SCALE = 100.0000 ' / in.	CHECKED RAD	REVISED -	DEPARTMENT OF TRANSPORTATION	l	S.N. 016–0064 ANI
Default	PLOT DATE = 8/30/2013	DATE 8-30-13	REVISED -		SCALE:	SHEET 3 OF 12 SHEE





NOTE: HATCHED AREA INDICATES CONCRETE REMOVAL

FOR BILL OF MATERIAL AND LIST SEE SHEET 3

G	G CHANNEL ND DETAILS 3.N. 016-0065		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ND DETAILS S N 016-0065		57	2013-025-I	СООК	23	7		
S.	N. 016–0065				CONTRACT	NO. 6	0W60	
ſS	STA.	TO STA.		ILLINOIS FED. A	D PROJECT			



SHEET 1 OF 2

A	G CHANNEL		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
PATCHING			57	2013-025-I	COOK	23	8		
0	064		CONTRACT NO. 60						
S	STA.	TO STA.	ILLINOIS FED. AID PROJECT						

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FILE NAME =	USER NAME = dahhanr	DESIGNED - MVT	REVISED -			I-57 OVER CAL-SAG CHANNEL	F.A.I.	SECTION	COUNTY	TOTAL	SHEET
c:\pw_work\pwidot\dahhanr\d0101671\016-0	064.dgn	DRAWN - MVT	REVISED -	STATE OF ILLINOIS		BRIDGE DECK PATCHING	57	2013-025-I	соок	23	9
	PLOT SCALE = 100.0000 ' / in.	CHECKED RAD	REVISED -	DEPARTMENT OF TRANSPORTATION		S.N. 016–0064			CONTRACT	NO. 6	0000
Default	PLOT DATE = 9/9/2013	DATE 8-30-13	REVISED -		SCALE:	SHEET 6 OF 12 SHEETS STA. TO STA.		ILLINOIS FED. A	AID PROJECT		

BILL OF MATERIALS (S.N. 016–0064)

BAR	NO.	SIZE	LENGTH	SHAPE
a2(E)	56	# 6	3'-9''	
a3(E)	32	# 5	3'-9''	
a4(E)	24	# 5	2'-0''	
	ITEM	UNIT	QUANTITY	
DECK SLAB R	EPAIR (PARTIA	L)	SQ.YD.	87
DECK SLAB REPAIR (FULL DEPTH)			SQ.YD.	16
REINFORCEMENT BARS (EPOXY COATED)			POUND	500

FOR DETAILS A AND B ON SHEET 5

SHEET 2 OF 2





FILE NAME =	USER NAME = dahhanr	DESIGNED - MVT	REVISED -		I-57 OVER CAL-SAG CHANNEL			SECTION	COUNTY	TOTAL S	HEET
c:\pw_work\pwidot\dahhanr\d0101671\016-0	Ø64.dgn	DRAWN - MVT	REVISED -	STATE OF ILLINOIS		BRIDGE DECK PATCHING	57	2013-025-I	соок	23	10
	PLOT SCALE = 100.0000 '/ in.	CHECKED RAD	REVISED -	DEPARTMENT OF TRANSPORTATION		S.N. 016–0065			CONTRACT	T NO. 60	160
Default	PLOT DATE = 9/9/2013	DATE 8-30-13	REVISED -		SCALE:	SHEET 7 OF 12 SHEETS STA. TO STA.		ILLINOIS FED. 4	ID PROJECT		

LEGEND:



PARTIAL DEPTH REPAIR



FULL DEPTH REPAIR

SEE BILL OF MATERIALS SHEET 8 FOR DETAILS A & B SEE SHEET 5

SHEET 1 OF 2





FILE NAME =	USER NAME = dahhanr	DESIGNED - MVT	REVISED -		I-57 OVER CAL-SAG CHANNEL BRIDGE DECK PATCHING			SECTION	COUNTY	TOTAL SH	EET
c:\pw_work\pwidot\dahhanr\d0101671\016-0	64.dgn	DRAWN - MVT	REVISED -	STATE OF ILLINOIS				2013-025-I	соок	23	11
	PLOT SCALE = 100.0000 ' / in.	CHECKED RAD	REVISED -	DEPARTMENT OF TRANSPORTATION		S.N. 016–0065			CONTRACT	NO. 60W	60
Default	PLOT DATE = 9/9/2013	DATE 8-30-13	REVISED -		SCALE: SHEET 8 OF 12 SHEETS STA. TO STA.			ILLINOIS FED. A	D PROJECT		-

BAR	NO.	SIZE	LENGTH	SHAPE
a2(E)	56	* 6	3'-9''	
a3(E)	32	# 5	3'-9''	
a4(E)	24	# 5	2'-0''	
	ITEM	UNIT	QUANTITY	
DECK SLAB R	EPAIR (PARTIA	L)	SQ.YD.	95
DECK SLAB R	EPAIR (FULL D	SQ.YD.	35	
REINFORCEMENT BARS (EPOXY COATED)			POUND	500

SHEET 2 OF 2



STANDARD BAR SPLICER ASSEMBLY

	Minimum Lap Lengths										
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6					
3, 4	1'-5''	1'-11''	2'-1''	2'-4''	2'-7''	2'-11''					
5	1'-9''	2'-5''	2'-7''	2'-11''	3'-3''	3′-8′′					
6	2'-1''	2'-11''	3'-1''	3′-6″	3′-10′′	4'-5''					
7	2'-9''	3′-10′′	4'-2''	4'-8''	5'-2''	5′-10′′					
8	3'-8''	5′-1′′	5′-5″	6'-2''	6′-9′′	7'-8''					
9	4'-7''	6′-5′′	6'-10''	7'-9''	8'-7''	9′-8′′					

Table 1: Black bar, 0.8 Class C

Table 2: Black bar, Top bar lap, 0.8 Class C

Table 3: Epoxy bar, 0.8 Class C

Table 4: Epoxy bar, Top bar lap, 0.8 Class C

Table 5: Epoxy bar, Class C Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + $1_{2}^{\prime\prime}$ + thread length

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

Location	Bar size	No. assemblies required	Table for minimum lap length
Abutment	#5	16	3
Deck	#6	56	3



INSTALLATION AND SETTING METHODS

"A" :

"B" : Set bar splicer assembly by means of a template bolt. Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.





BSD-1

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c:\pw_work\pwidot\hardnettbr\d0345314\D1	34313-sht-plan.dgn	DRAWN _ MVT	REVISED _	STATE OF ILLINOIS		BAR SPLICER ASSEMBLY			57	2013-025-I	СООК	23 12
	PLOT SCALE = 100.0000 ' / 10.	CHECKED	REVISED _	DEPARTMENT OF TRANSPORTATION		S.N. 016–0064 AND	<u>S.N. 016–00</u>)65			CONTRACT	NO. 60W60
	PLOT DATE = 8/30/2013	DATE	REVISED _		SCALE:	SHEET NO. 9 OF 12 SHEETS	STA.	TO STA.		ILLINOIS FED. AI	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.



FILE NAME =	USER NAME = hardnettbr	DESIGNED -	REVISED -			I-57 OVER CAL-SAG	CHANNEL		F.A.I.	SECTION	COUNTY	TOTAL	HEET
c:\pw_work\pwidot\hardnettbr\d0345314\D1	34313-sht-plan.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS		PREFORMED JOINT ST	RIP SEAL		1321	0303 VB-I	СООК	23	13
-	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		<u>S.N. 016–0064 AND S.N</u>	. 016–0065				CONTRAC	T NO. 60	JW60
	PLOT DATE = 8/30/2013	DATE -	REVISED -		SCALE: NONE	SHEET NO. 10 OF 12 SHEETS	STA.	TO STA.	FED. ROAD DI	ST. NO. 1 ILLINOIS FED.	AID PROJECT		

³ ₄ '' \$ x 8'' Studs <u>Top of sidewalk</u> or median <u>'4''</u> <u>Top of locking</u> edge rail <u>construction</u>	
<u>TYPICAL END TREATMENT</u> AT SIDEWALK OR MEDIAN	

Shorter plates with a single row of studs at 12" cts. may be necessary on medians which are shallower than 9". See manufacturer's recommendation.

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of ${}^{l}_{4}$ ". 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 conceptual only, except for the minimum dimensions shown. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities.

The manufacturer's recommended installation methods shall be followed.

The joint opening and deck dimensions detailed on the superstructure are based on a rolled rail expansion joint. If the Contractor elects to use the welded rail expansion joint, the opening and deck dimensions shall be modified according to the dimensions detailed on this sheet. Required modifications shall be made at no additional cost to the State.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications. Maximum space between rail segments shall be $\frac{3}{16}$, sealed with a suitable sealant. Joints in rails within 10 ft.

of curbs shall be welded.

Parapet plates and anchorage studs for skews > 30° included in the cost of Preformed Joint Strip Seal.

BILL OF MATERIAL

Item	Unit	SN.016-0064	SN.016-0065	Total	
Preformed Joint Strip Seal	Foot	119	119	238	
				1	

Grind Flush



SCALE: SHEET 11 OF 12 SHEETS

Default

PLOT DATE = 9/9/2013

DATE

REVISED

DEPARTMENT OF TRANSPORTATION

Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232. Downspouts located on the exterior side

of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam. As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111. The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-33.

Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



* Corrugated pipe extension to the end of downspout to be done by others

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-33	Each	6

8, DS–33 AND 016–0065		F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		57	2013-025-I	СООК	23	14		
				CONTRACT	NO. 6	0060		
5	STA.	TO STA.	ILLINOIS FED. AID PROJECT					



FILE NAME =	USER NAME = dahhanr	DESIGNED -	REVISED -			I-57 OVER CAL-SA
c:\pw_work\pwidot\dahhanr\d0101671\016-0	064.dgn	DRAWN -	REVISED -	STATE OF ILLINOIS	ADJUST	ING DRAINAGE SCU
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		S.N. 016–0064 AND
Default	PLOT DATE = 9/9/2013	DATE -	REVISED -		SCALE:	SHEET 12 OF 12 SHEET



FILE NAME =

Default

AG CHANNEL AND DETAILS 4; –0065		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		57 2013-025-І СООК		23	16
			CONTRACT	NO. 6	0060
STA. TO STA.		ILLINOIS FED. A	ID PROJECT		



G CHANNEL					t	CONTRACT	NO.	60	we	
	STA.	TO STA.		ILLINOIS	FED. A	ID	PROJECT			_



P	LAN		F.A.I RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
AG CHANNEL		57	2013-025-I	СООК	23	18	
				CONTRACT	NO. 6	0060	
	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		



TO STA. ILLINOIS FED. AID PROJECT



① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.

② CONTINOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.

(3) PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.

(4) ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.

(5) TYPE III BARRICADES MAY BE OMMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE

(6) WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE

(7) THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- $\hat{\Pi}$ DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL ₫ STEADY BURNING LIGHT

TEMPORARY CONCRETE BARRIER WALL

 \mathbb{X}

IMPACT ATTENUATOR

W24-1-48

7

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

ETAILS FOR LTI-LANE WEAVE		F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		57	2013-025-I	СООК	23	20	
			TC-09	CONTRACT	NO. 6	0060	
	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		







TC-17

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

STA.

TO STA.

CONTRACT NO. 60W60

FILE NAME =	USER NAME = hardnettbr	DESIGNED -	REVISED - J.A.F. 12-06					
c:\pw_work\pwidot\hardnettbr\d0345314\D134313-sht-plan.dgn		DRAWN - D.W.S.	REVISED - S.P.B. 01-07	STATE OF ILLINOIS				
	PLOT SCALE = 100.0003 '/ In.	CHECKED -	REVISED - S.P.B. 12-09	DEPARTMENT OF TRANSPORTATION	SH	OULDER CLOSURES AND PA		
	PLOT DATE = 8/30/2013	DATE - 11-96	REVISED - M.D. 06-13		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS		