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# PROPOSED

**BRIDGE REHABILITATION** 



## **INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
01	COVER SHEET
02	GENERAL NOTES AND HIGHWAY STANDARDS
03	SUMMARY OF OUANTITIES
04	STAGING NOTES & CROSS SECTIONS
05-8	MAINTENANCE OF TRAFFIC
09-16	BRIDGE PLANS
17-23	STANDARDS

# **GENERAL NOTES**

<ol> <li>IN ADDITION TO THE REQUIREMENTS OF ARTICLE 107.16, THE CONTRACTOR SHALL PROTECT THE SURFACE OF ALL BRIDGE DECKS AND BRIDGE APPROACH PAVEMENTS IN A MANNER SATISFACTORY TO THE ENGINEER BEFORE ANY EQUIPMENT IS ALLOWED TO CROSS THE STRUCTURE. PROTECTION SHALL BE PROVIDED FOR</li> </ol>	000001- 701101-0
ALL EQUIPMENT, AS DEFINED IN ARTICLE 101.17 IF TRACK MOUNTED OR WHEELED.	701321-1
CITY OF ROCHELLE.	701423-1
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.	701426-0
IDOT IS NOT A MEMBER OF JULIE. IF YOU ARE NEAR ANY OVERHEAD LIGHTING, INTERSECTION LIGHTING OR TRAFFIC SIGNALS, CONTACT THE IDOT TRAFFIC OFFICE AT 815/284-5469 AT LEAST 48 HOURS PRIOR TO WORK.	701901-0 704001-0 720011-0
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE MUNICIPALITY TO DETERMINE APPROVED METHODS OF UTILITY STRUCTURE ADJUSTMENT. UTILITY STRUCTURES MAY INCLUDE, BUT ARE NOT LIMITED TO, MANHOLES, WATER VALVES, HANDHOLES, ETC. ALL MATERIALS AND WORK NECESSARY TO COMPLETE ADJUSTMENTS PER MUNICIPALITY REQUIREMENTS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ASSOCIATED ADJUSTMENT PAY ITEM.	728001-0 729001-0 780001-0 782006-
5. ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. NO ADDITIONAL COST TO THE DEPARTMENT.	
6. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES, ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.	
7. PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:	
1. ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH. 2. ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE. 3. THE DISTANCE BETWEEN YELLOW NO-PASSING LINES SHALL BE 8 INCHES, NOT 7 INCHES, AS SHOWN IN THE DETAIL OF TYPICAL LANE AND EDGE LINES. 4. CENTERLINE SKIP DASH PAYEMENT MARKING ON MULTI-LANE	UTILIT
DIVIDED, MULTI-LANE UNDIVIDED, AND ONE-WAY ROADWAY SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.	NONE.
8. FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.	
9. DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.	
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.	
11. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.	
12. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.	
<ol> <li>THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.</li> </ol>	
14. THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM A HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS. THE COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES BID AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.	
15. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL LOGS, SHRUBS, BUSHES, SAPLINGS, UNDERBRUSH OR DEBRIS ACCORDING TO SECTION 201 OF THE STANDARD SPECIFICATIONS AT LOCATIONS REQUIRING ACCESS TO THE SUBSTRUCTURE. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT THE COST SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.	
16. WHEN RELOCATE TEMPORARY CONCRETE BARRIER IS SPECIFIED, THE WALL SHALL BE REMOVED, STORED AND TRANSPORTED TO AND FROM STORAGE, WHEN THE WALL IS NOT NEEDED FOR A TIME AS SHOWN ON THE STAGING PLANS, AND RELOCATED AND REINSTATED AT THE NEW LOCATION. THE REINSTALLATION REQUIREMENTS SHALL BE THE SAME AS THOSE FOR A NEW INSTALLATION. THIS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR RELOCATE TEMPORARY CONCRETE BARRIER.	
17. RELOCATE TEMPORARY IMPACT ATTENUATORS SHALL INCLUDE STORAGE AND TRANSPORTATION TO AND FROM STORAGE, WHEN THE DEVICE IS NOT NEEDED FOR A TIME, AS SHOWN ON THE STAGING PLANS. THIS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR IMPACT ATTENUATORS, RELOCATE OF THE TYPE SPECIFIED.	

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SD I ENGINEERING CORP.		DRAWN - SD	REVISED -	STATE OF ILLINOIS		GENERAL	NOTES	S AND	HIGHW	AY STANDARDS	5454	D2 BJR 2020-2	OGLE	23	02
www.sdiengr.com	PLDT SCALE = \$SCALE\$	CHECKED - 0A0	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRAC	CT NO. 6	64P35
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# **HIGHWAY STANDARDS**

- -07 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- -05 OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24'' (600 MM) FROM PAVEMENT EDGE
- LANE CLOSURE, MULTILANE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
   LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS ≥ 45 MPH TO 55 MPH
- -09 LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH
- -08 TRAFFIC CONTROL DEVICES
- -08 TEMPORARY CONCRETE BARRIER
- -01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
- -01 TELESCOPING STEEL SIGN SUPPORT
- -01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGN & MARKERS) -05 TYPICAL PAVEMENT MARKINGS
- GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

## TY NOTES

70400100 TEMPORARY CO	ICRETE BARRIER		FOOT		
70400200 RELOCATION TH	MPORARY CONCRETE BARRIER		FOOT	808	808
70600250 IMPACT ATTEN	ATORS, TEMPORARY (NON-REDIRECTIVE), TI	EST LEVEL 3	EACH	2	2
70600350 IMPACT ATTEN	ATORS, RELOCATE (NON-REDIRECTIVE), TES	ST LEVEL 3	EACH	2	2
78001110 PAINT PAVEME	T MARKING - LINE 4"		FOOT	3,182	3182
78001150 PAINT PAVEMEN	T MARKING - LINE 12"		FOOT	458	458
X0327980 PAVEMENT MAR	ING REMOVAL - WATER BLASTING		SQ FT	1,519	1519
X7030005 TEMPORARY PA	'EMENT MARKING REMOVAL		SQ FT	2,197	2197
Z0007114 CONTAINMENT	ND DISPOSAL OF NON-LEAD PAINT CLEANI	ING RESIDUES	L SUM	1	1
Z0010501 CLEANING AND	PAINTING STEEL BRIDGE NO. 1		L SUM	1	1
	ALALING STEEL DRIDGE NU. 1				· · ·

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#### **CONSTRUCTION STAGING GENERAL NOTES**

- 1. ALL SIGNING MUST BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED APRIL 1 2016. THE DETAILS IN THESE PLANS. THE LATEST EDITION OF THE IDOT BUREAU OF DESIGN AND ENVIRONMENT HIGHWAY STANDARDS AND THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
- 2. LONGITUDINAL DIMENSIONS SHOWN ON THESE PLANS MAY BE ADJUSTED TO FIT FIELD CONDITIONS AS DIRECTED BY THE ENGINEER.
- 3. THE CONTRACTOR MUST BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS AND OTHER DEVICES INSTALLED ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THIS CONSTRUCTION IS IN EFFECT.
- 4. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE CONSTRUCTION IS IN EFFECT MUST BE COMPLETELY COVERED BY THE CONTRACTOR.
- 5. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS MUST BE AS REQUIRED BY THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 6. AS A MINIMUM, ALL AMBER FLASHING LIGHTS THAT ARE REQUIRED MUST MEET THE REQUIREMENTS FOR TYPE A - LOW INTENSITY FLASHING LIGHTS IN ARTICLE 702.04 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION MUST BE USED.
- 7. PROPOSED MAINTENANCE OF TRAFFIC SIGNING MUST BE COVERED OR REMOVED WHEN NOT REQUIRED DURING A SPECIFIC STAGE OF CONSTRUCTION.
- 8. SEE SUGGESTED MAINTENANCE OF TRAFFIC PLAN FOR ADDITIONAL SIGNING.
- 9. THE CONTRACTOR MUST CONDUCT HIS WORK IN SUCH A MANNER THAT EMERGENCY VEHICLES WILL HAVE ACCESS TO THE AREA AT ALL TIMES.
- 10. THE CONTRACTOR MUST NOTIFY THE IDOT BUREAU OF TRAFFIC AS REQUIRED 72 HOURS IN ADVANCE OF BEGINNING WORK (815) 284-5474.
- 11. SIGN SPACING SHALL BE PER IDOT STANDARDS 701423.
- 12. THE CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY DRAINAGE DURING ALL PHASES OF CONSTRUCTION.
- 13. THE CONTRACTOR SHALL PROVIDE, INSTALL, MAINTAIN AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR TRAFFIC CONTROL AND PROTECTION.
- 14. ALL TEMPORARY CONCRETE BARRIER WALL AND TEMPORARY IMPACT ATTENUATORS MUST BE SEATED ON BARE, CLEAN PAVEMENT OR PAVED SHOULDER.



# **EXISTING CROSS SECTION**

(LOOKING SOUTH) \*(MEASURED AT CENTER OF BRIDGE)



**STAGE 1 MAINTENANCE OF TRAFFIC** 

(MEASURED AT CENTER OF BRIDGE)



### **STAGE 2 MAINTENANCE OF TRAFFIC**

(LOOKING SOUTH) (MEASURED AT CENTER OF BRIDGE)

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(LOOKING SOUTH)



- 500' TO WORKZOI SPACED AT 100	NE BARRELS D' CENTER			
BINE PATH		MATCHLINE STA		
BIG END WORK ZONE SPEED LIMIT STA 198+50		200+00		
OT CONFIGURATION ED BY THE ENGINEER.	0 SCALE	50 100	150	
OF TRAFFIC 0 TO STA 200+00	F.A.U. RTE. 5454	SECTION D2 BJR 2020-2	COUNTY OGLE CONTRACT	TOTAL SHEET SHEETS NO. 23 05 NO. 64P35

ILLINOIS FED. AID PROJECT

TO STA.

-I103(0)-48 R2-1-3648 I108P-3618
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-I103(0)-48 R2-1-3648 I108P-3618
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		TEMPORARY CONCRETE BARRIER WALL		ARROW BOARD	
ON AUDI STRAD REPORT RECEDENCIAL LINI          Image: Contract of the strategy of		TEMPORARY PAVEMENT MARKING	þ	TEMPORARY TRAFFIC SIGN	
402-1000-40 R0-10	0	DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT	A	PAVEMENT MARKING TAPE, TYPE IV 4"	
					w20-1103(0)-48
RC-1584 RC-1005-2588 R2-1007-25					w20-1105(0)-48
RID-1108-350 R2-1009-350 R2-1009-350 R2-1009-350 R2-1009-350 R2-100-350 R2-10					R2-1-3648
R2-1102P-30R					R10-1108P-3618
ACTION THE CONCEPTION POLYATOR BARRILAGES SPACED AT 50' CENTERS					
Alternational Solution Participation and the solution of the s					K2-1106F-3616
ARE S SPACED AT 100° CENTERS					
ABELIS SPACED AT 100' CENTER		1			
ABC TO WORKZOKE BARRELS SPACED AT TOO' CENTER					
HOL     HOL       Barrels spaced at logy center     Direction indicator Barricades spaced at 50' centers		00+		ARROW BOARD 300' FROM BEGINNING OF TAPER	
494       0° R         280+00       0° R         1       1         496' TO WORKZONE       630°-0°'         BARRELS SPACED AT 100' CENTER       DIRECTION INDICATOR BARRICADES SPACED AT 50' CENTERS		A 200	+73 10' LT	+04 5′ LT	
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BARRELS SPACED AT 100' CENTER DIRECTION INDICATOR BARRICADES SPACED AT 50' CENTERS		496' TO WC	RKZONE	630'-0''	
		BARRELS SPACED	AT 100' CENT	DIRECTION INDICATOR BARRICADES SPACED AT 50' CENTERS	-

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ELEVATION	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
071_0085	5454	D2 BJR 2020-2	OGLE	23	09		
			CONTRACT	NO. 64	P35		
08 SHEETS	ILLINOIS FED. AID PROJECT						

#### <u>GENERAL NOTES</u>

- 1. 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.
- 2. Reinforcement bars designated (E) shall be epoxy coated.
- 3. All structural steel shall conform to AASHTO Classification M-270 Gr 36, unless otherwise noted.
- 4. All exposed concrete edges shall have a  ${}^3_4$ " x 45° chamfer, except where shown.
- 5. 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".
- 6. Joint openings shall be adjusted according to Article 520.04 of the Std. Specs. when the deck is poured at an ambient temperature other than 50°F.
- 7. Containment of cleaning residue is required to control nuisance dust. See Special Provisions.
- 8. 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.

#### <u>SCOPE OF WORK</u>

- 1. Remove and replace transverse expansion joints at the abutments with preformed joint strip seals.
- 2. Apply protective coat on the reconstructed transverse joint areas. 3. Clean and repaint all steel elements located under the
- expansion joints at Abutments as indicated in plans. 4. Blast and paint expansion bearings at Abutments.



Containment and Disposal of No.

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S DY I DENGINEERING CORP.		DRAWN - SD	REVISED -	STATE OF ILLINOIS		5454	D2 BJR 2020-2	OGLE	23	10
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ITEM	UNIT	SUPER	SUB	TOTAL
	Cu Yd	28.4	-	28.4
	Cu Yd	28.1	-	28.1
	Sq Yd	79.0	-	79.0
dge No. 1	L Sum	1	-	1
ited	Pound	3430	-	3430
	Each	32	-	32
	Foot	228	-	228
on-lead Paint Cleaning Residues No. 1	L Sum	1	-	1

# TOTAL BILL OF MATERIAL





	SHEETS NO.
S VON I DENGINEERING CORP. DRAWN - SD REVISED - STATE OF ILLINOIS STRUCTURE NO. 071_0085 5454 D2 BJR 2020-2	0GLE 23 12
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BILL	OF	MATERIAL
(B	oth A	( <i>butments</i>

Bar	No,	Size	Length	Shape
a(E)	16	#5	42′-5″	
a1(E)	16	#5	22′-9"	
a2(E)	16	#5	44′-10"	
а <b>з</b> (Е)	16	#6	6′-6″	
d(E)	16	#5	5′-1"	Ĺ
d1(E)	16	#5	3′-11″	
h(E)	3	#6	43'-4"	
h1(E)	1	#5	43′-11″	
h2(E)	6	#6	23'-4"	
h3(E)	2	#5	23'-4"	
h4(E)	6	#6	44′-10″	
h5(E)	2	#5	44′-10″	
h6(E)	3	#6	41'-6"	
h7(E)	1	#5	41′-6″	
s(E)	3	#4	5′-6″	
s1(E)	3	#4	7′-8"	$\bigcirc$
v(E)	4	#5	3′-3"	
v1(E)	4	#5	3′-5″	·
Concre	te Remo	val	Cu. Yd.	28.4
Concre	te Super	structure	Cu. Yd.	28.1
Reinforcement Bars, Epoxy Coated		Pound	3430	







PLOT DATE = \$DATE\$

DATE

- 03-19-2020

REVISED

## 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 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 4<sup>1</sup><sub>2</sub>" 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  $\frac{3}{16}$ " 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.

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.







WELDED RAIL

## LOCKING EDGE RAILS

\*\* Back gouge not required if complete joint penetration is verified by mock-up.

# 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	228

STRIP SEAL	F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
071_0085	5454	D2 BJR 2020-2	OGLE	23	13
			CONTRACT	NO. 64	P35
08 SHEETS		ILLINOIS F	D. AID PROJECT		

SHEET SO5 OF S



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	ENGINEERING CORP.		DRAWN - SD	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 071-0085		D2 BJR 2020-2	OGLE	23	14
	www.sdiengr.com	PLOT DATE = \$DATE\$	DATE - 03-19-2020	REVISED -	DEPARIMENT OF TRANSPORTATION	SHEET SOG OF SOB SHEETS		ILLINOIS FED.	CONTRACT AID PROJECT	NO. 64	<b>'</b> 35

# BILL OF MATERIAL

ITEMS	UNIT	QUANTITY
nting Structural	L Sum	1
Disposal of Non-Lead esidues, Location 1	L Sum	1



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
Abutment Hatch Block	#5	4	3'-4"
Abutment Hatch Block	#6	12	4'-0"
End of Deck at Abutments	#5	16	3'-6"



### 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.



yield strength. alternatives.

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(S) TON I DENGINEERING CORP.		DRAWN - SD	REVISED -	STATE OF ILLINOIS	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS	5454	D2 BJR 2020-2	OGLE	23 15
www.sdiengr.com	PLOT SCALE = \$SCALE\$ PLOT DATE = \$DATE\$	CHECKED - 0A0 DATE - 03-19-2020	REVISED - REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET SO7 OF SO8 SHEETS			CONTRACT	NO. 64P35



# STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required

<u>NOTES</u> Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi

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 Speci cations.m See approved list of bar splicer assemblies and mechanical splicers for



with bar splicer inserts in the side of the beam, as detailed, to accommodate the installation of the retainer assemblies. A pair of bar splicers, 6" apart,

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CONTRACT NO. 64P35		CONTRACT NO. 64P		P35			
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TEMPORARY CONCRETE BARRIER					
NORMAL POSTED SPEED	TAPER RATIO				
40 mph AND ABOVE	12:1				
BELOW 40 mph	8:1				

ADVISORY SPEED LIMIT						
NORMAL POSTED SPEED	ADVISORY SPEED					
55 - 45 mph	40 mph					
40 mph	35 mph					
35 - 30 mph	30 mph					

## **GENERAL NOTES**

This Standard is used where, at any time, any vehicle, equipment, workers, or their activities will encroach on one lane of a bridge. Traffic signals and a positive barrier are required.

Traffic signals shall be operational only when all traffic controls are in place. When traffic signals are not in operation, flaggers shall be used and traffic control shall conform to Standard 701201 or 701206.

Temporary concrete barrier shall be according to Standard 704001.

Existing or temporary pavement markings shall be on both sides of open lane from stop bar to stop bar.

All dimensions are in inches (millimeters) unless otherwise shown.

# LANE CLOSURE, 2L, 2W, **BRIDGE REPAIR WITH BARRIER**

(Sheet 2 of 2)

# STANDARD 701321-18

701321–18			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		5454	D2 BJR 2020-2	OGLE	23	18	
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	W21-1(0)-48	500' (150 m)	W20-1(0)-48 Or W20-1103(0)-4	ROAD WORK AHEAD B CONSTRUCTION AHEAD 00' 0 m)	
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	This standard is use vehicle, equipment, encroach on the pa within 24 (600) of t daylight operation e temporary concrete When work is being the set up would be	GENERAL ad where at workers or to vement or or the edge of p exceeding on barrier is ut performed i e a mirror im	NOTES any time any their activities win the shoulder bavement for e day and where ilized. In the left lane, hage to what is	II	
	shown. Calculate L as follow NORMAL	NS:	БОРМ	111 AC	
	45 mph (80 km/h) or more W = Width of offse	t	English L=(W)(S)	(Metric) L=0.65(W)(S)	
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