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AREAS OF REINFORCEMENT BARS

GENERAL NOTES & COMMITMENTS

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- 10 STEEL PLATE BEAM GUARDRAIL DETAILS
- 11 17 STRUCTURE NO. 053 0047 REPAIR PLANS
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STANDARDS

001001-02

DECIMAL OF AN INCH AND OF A FOOT 001006 420001-09 PAVEMENT OINTS PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB 420401-13 PAVEMENT WELDED WIRE REINFORCEMENT 630001-12 STEEL PLATE BEAM GUARDRAIL TRAFFIC BARRIER TERMINAL, TYPE 6 631031-16 OFF-RD OPERATIONS, 2L. 2W MORE THAN 15' (4.5 m) AVAY 701001-02 701006-05 OFF-RD OPERATIONS 2L 2W 15' (4.5 m) TO 24' (600 mm) LANE CLOSURE, 24, 2W, DAY ONLY, FOR SPEEDS 2 45 MPH LANE CLOSURE, 2L. 2W. NIGHT ONLY, FOR SPEEDS > 45 MPH 701206-05 701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY 701311-03 TRAFFIC CONTROL DEVICES

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

704001-08 TEMPORARY CONCRETE BARRIER
782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

PROJECT LOCATION

STRUCTURE NO. 053-0047

CARRYING FAP 326 (IL 47)

OVER 5 MILE CREEK APPROXIMATELY

0.30 MI. NORTH OF IL ROUTE 116

(NEAR SAUNEMIN)

0 100° 200° 300° 1° = 100° 0 10° 20° 30° 1° = 10° 0 50° 100° 1° = 50° 0 50° 100° 1° = 40° 100° 1° = 20°

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
GR 811

PROJECT ENGINEER: JOE KANNEL P.E. UNIT CHIEF: RON WOODSHANK DISTRICT 3 NO. (815) 434–6131 CONTRACT NO. 66K49

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 326 (IL 47)
SECTION (122BR)BRR
BRIDGE REPAIRS
LIVINGSTON COUNTY

C-93-021-20



NET LENGTH = 248 FT. = 0.05 MILE

D-93-004-20



FUNCTIONAL CLASSIFICATION

RURAL

F.A.P. ROUTE 326 (IL 47) 2017 ADT = 2450

P.V. 64.3% S.U. 4.1% M.U. 31.6%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED

A 20 17

REGIONAL ENGINEER

ENGINEER OF DESIGN AND ENVIRONMENT

OURSECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 3

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

GENERAL NOTES

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

SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

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 (ROW) DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS.

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

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

COMMITMENTS

AREAS OF DECK SLAB REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS AND QUANTITIES OF DECK REPAIRS ON "AS-BUILT" PLAN SHEETS. THE ENGINEER SHALL SUBMIT THE "AS-BUILT" DECK SLAB REPAIR PLAN SHEETS TO THE SPRINGFIELD BRIDGE OFFICE PRIOR TO COMPLETION OF THE CONTRACT. CONTACT PERSON IS VICTOR VELIZ PHONE 217-782-2708.

ALL STEAL PLATE BEAM GUARDRAILS AND TERMINAL SECTIONS, INCLUDING ALL HARDWARE POSTS, RAIL ELEMENTS, AND BLOCL OUTS SHALL BE REMOVED AND DELIVERED TO THE DEPARTMENTS PONTIAC MAINTENANCE YARD. CONTACT PERSON IS MARK EMM PHONE 815-693-1773.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

PREPARED BY:

DATE:

DISTRICT STUDIES & PLANS ENGINEER

START & END DATES — OF CONSTRUCTION: —

INSPECTORS:

....

EXAMINED BY:

STRIGHT CONSTRUCTION ENGINEER

DISTRICT MATERIALS ENGINEER

DISTRICT OPERATIONS ENGINEER

 USER NAME
 DESIGNED
 REVISED
 RW

 DRAWN
 REVISED
 RW

 PLOT SCALE
 = 3.9370 / IPPH
 CHECKED
 REVISED
 EM

 PLOT DATE
 = 0.11 7/2019
 DATE
 REVISED
 8/28/2019

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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MODEL: Default FILE NAME: 050-3305

CONSTRUCTION CODE
CONTRACT MAINTENANCE
100% STATE
BR I DGE

			1	100% STATE
			}	BRIDGE
CODE			TOTAL	0047
NO.	I TEM	UNIT	QUANTITY	053-0047
20200100	EARTH EXCAVATION	CU YD	78	78
31101200	SUBBASE GRANULAR MATERIAL, TYPE B 4"	SQ YD	178	178
42000060	WELDED WIRE REINFORCEMENT	SQ YD	238	238
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	238	238
44000100	PAVEMENT REMOVAL	SQ YD	161	161
44004250	PAVED SHOULDER REMOVAL	SQ YD	104	104
44213204	TIE BARS 3/4"	EACH	48	48
50102400	CONCRETE REMOVAL	CU YD	12.4	12.4
50300225	CONCRETE STRUCTURES	CU YD	29.8	29.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	12.4	12.4
50300260	BRIDGE DECK GROOVING	SQ YD	497	497
50300300	PROTECTIVE COAT	SQ YD	504	504
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	124	124
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	37934	37934
50800515	BAR SPLICERS	EACH	252	252
3000313	D.W. 3. 2.32.13	LACII	232	232
52000110	PREFORMED JOINT STRIP SEAL	FOOT	96	96

SCALE:

MODEL: Default

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

				CONSTRUCTION CODE
				CONTRACT MAINTENANCE
				100% STATE
				BR I DGE
CODE			TOTAL	0047
NO.	ITEM	UNIT	QUANTITY	053-0047
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	175	175
62100005	TRAFFIC PARRIED TERMINAL TYPE C	FACIL	4	4
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	780	780
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
70100455	TRAFFIC CONTROL AND PROTECTION, STANDARD 701206	L SUM	1	1
70100433	TIVILLE CONTINUE AND THOREETION, STANDANG 731230	2 3011	1	•
70106500	TEMPORARY PRINCE TRAFFIC GLOVALG	F.A.C.I.	1	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70400100	TEMPORARY CONCRETE BARRIER	FOOT	475	475
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	475	475
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2

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^=	SPE	(IAI	ΙY	ITFM

USER NAME = MARINIEJ	DESIGNED -	RW	REVISED	-
	DRAWN -	RW	REVISED	-
PLOT SCALE = 3.9370 ' / mm	CHECKED -	EM	REVISED	-
PLOT DATE = 12/17/2019	DATE -	8/28/2019	REVISED	_

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

78008210 POLYUREA PAVEMENT MARKING TYPE I - LINE 4"

	F.A.P. RTE	S	ECTION		COUNTY	TOTAL SHEETS	SHEET NO.
SUMMARY OF QUANTITIES	326	(12	2BR)BRF	₹	LIVINGSTON	18	4
					CONTRACT	NO. 66	5K49
SCALE: SHEET 2 OF 3 SHEETS STA. TO STA.			ILLINOIS	FED. AI	D PROJECT		

928

FOOT

					CONSTRUCTION CODE
					CONTRACT MAINTENANCE
_					100% STATE
					BR I DGE
	CODE			TOTAL	0047
	NO.	ITEM	UNIT	QUANTITY	053-0047
*	78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	184	184
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8	8
*	X0327809	LINEAR DELINEATOR PANELS, 4 INCH	EACH	4	4
	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	404	404
-					
-	X2700001	TEMPORARY RUMBLE STRIPS (SPECIAL)	EACH	18	18
-	Z0001495	BRIDGE APPROACH SHOULDER REMOVAL	SQ YD	34	34
-	Z0004552	APPROACH SLAB REMOVAL	SQ YD	170	170
}					
	Z0016200	DECK SLAB REPAIR (PARTIAL)	SQ YD	38	38
Ø	Z0076600	TRAINEES	HOUR	1000	1000
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42	42

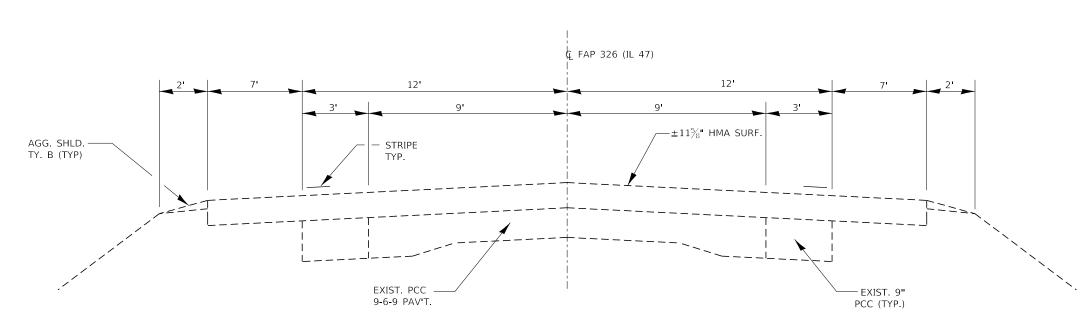
SCALE:

*= SPECIALTY ITEM

Ø 0042

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	DRAWN -	RW	REVISED -
PLOT SCALE = 3.9370 ' / mm	CHECKED -	EM	REVISED -
PLOT DATE = 12/17/2019	DATE -	8/28/2019	REVISED -

					F.A.P. RTE.	S	ECTION		COUNTY	TOTAL SHEETS	S
SUM	IWAKY	OF QU	ANTITIES		326	(12	2BR)BRF	₹	LIVINGSTON	18	П
									CONTRACT	NO. 66	5 K
SHEET 3	OF 3	SHEETS	STA.	TO STA.			ILLINOIS	FED. Al	ID PROJECT		Т



TYPICAL SECTION FAP 326 (IL 47)

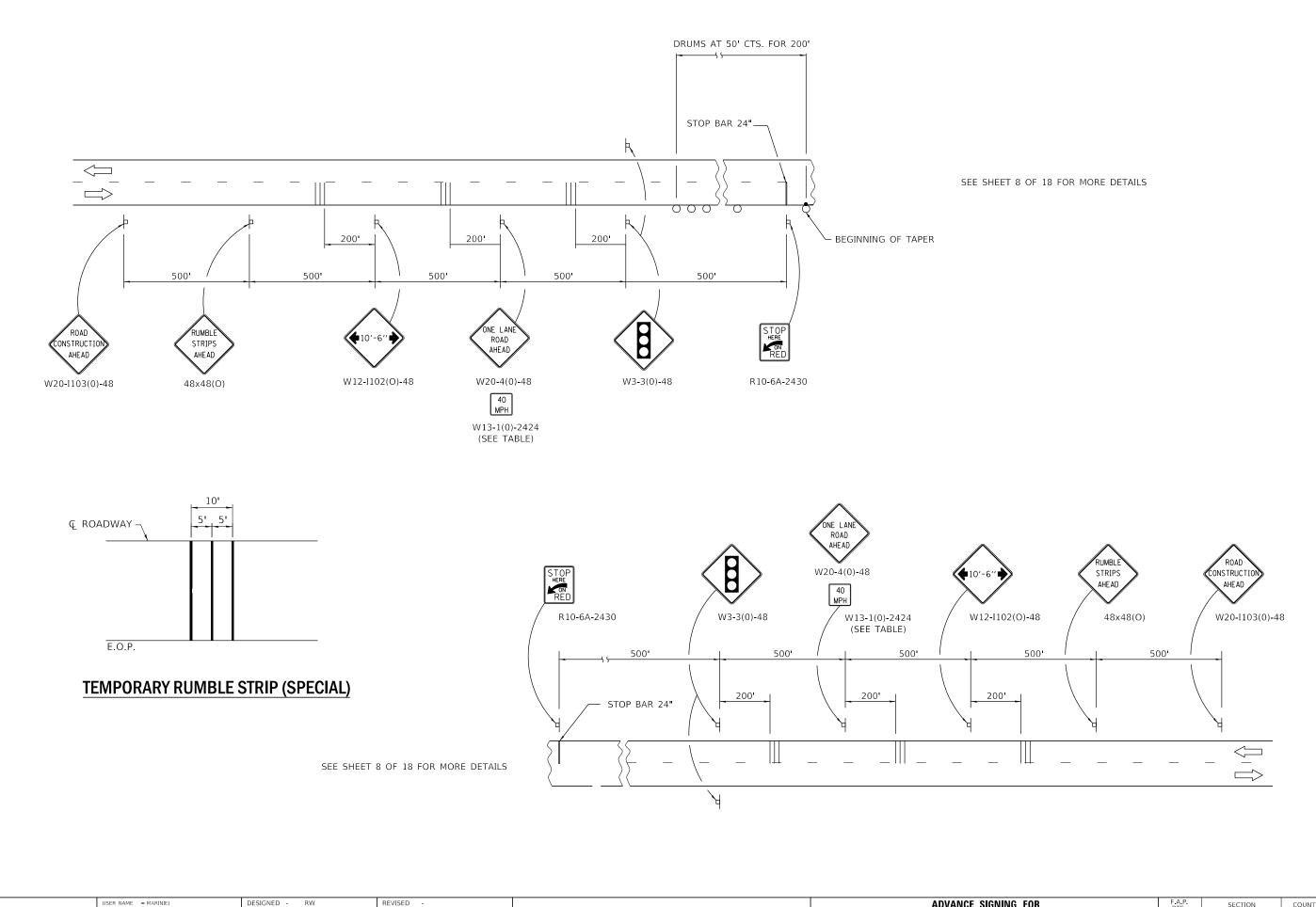
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 = MARINIEJ
 DESIGNED
 RW
 REVISED

 DRAWN
 RW
 REVISED

 PLOT SCALE
 = 3,9370 ' / mm
 CHECKED
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 REVISED

 PLOT DATE
 = 11/8/2019
 DATE
 8/28/2019
 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



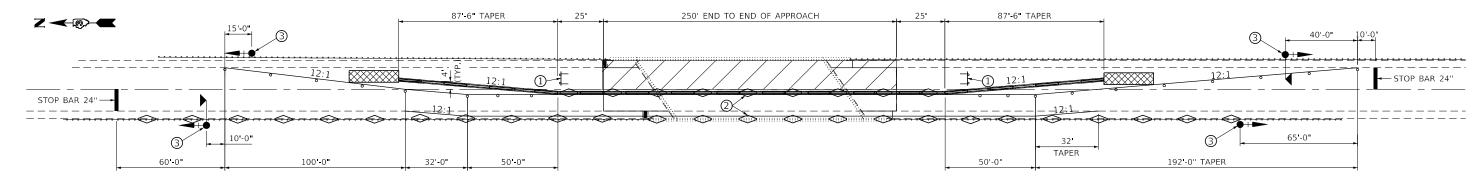
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 STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

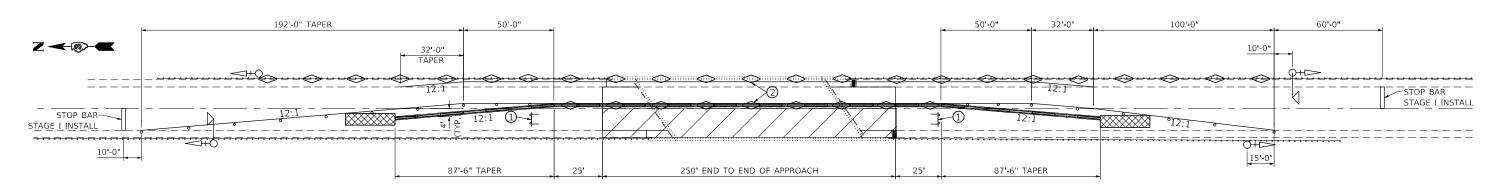
ADVANCE SIGNING FOR
TRAFFIC CONTROL AND PROTECTION, STANDARD 701321
STRUCTURE NO. 053—0047

SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A.P. | SECTION | COUNTY | TOTAL SHEETS | NO. |
| 326 | (122BR)BRR | LIVINGSTON | 18 | 7 |
| CONTRACT NO. 66K49 | | ILLINOIS | FED. AID PROJECT



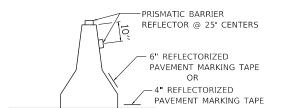
TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 **STRUCTURE NO. 053-0047** STAGE I TRAFFIC



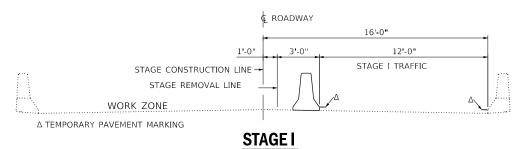
TRAFFIC CONTROL AND PROTECTION, STANDARD 701321

STRUCTURE NO. 053-0047 STAGE II TRAFFIC

- ① TYPE III BARRICADE TO BE IN PLACE WHEN NO WORK IS BEING PERFORMED.
- ② GUARDRAIL/BARRIER WALL REFLECTORS AT 25' CTS. SEE STANDARDS 704001 AND 782006.
- 3 THE EDGE OF THE POST MOUNTED SIGNAL HEAD SHALL BE BETWEEN 24 INCHES AND 6' FROM EDGE OF SHOULDER.



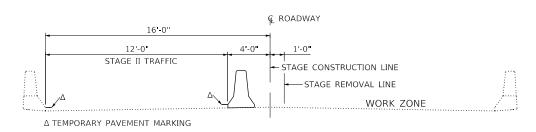
TEMPORARY CONCRETE BARRIER WALL DETAILS



THROUGH A 180 DEG. ROTATION ABOUT CENTERLINE OF STRUCTURE.

NOTE: STAGE I TRAFFIC CONTROL IS SHOWN, STAGE II IS SIMILAR

STRUCTURE NO. 053-0158 LOOKING EAST



STAGE II

STRUCTURE NO. 053-0158 LOOKING EAST

SYMBOLS

TYPE III BARRICADE WITH FLASHING LIGHTS

IMPACT ATTENUATOR





DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT

TEMPORARY CONCRETE BARRIER

CRYSTAL, BI-DIRECTIONAL BARRIER WALL/GUARDRAIL MARKER

TRAFFIC SIGNAL W/BACKPLATE; STAGE I INSTALL

TRAFFIC SIGNAL W/BACKPLATE AND MICROWAVE DETECTOR \triangleleft STAGE I INSTALL

TRAFFIC SIGNAL W/BACKPLATE

SCALE:

TRAFFIC SIGNAL W/BACKPLATE AND MICROWAVE DETECTOR

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.

TEMPORARY PAVEMENT MARKING AS SHOWN ON THIS DETAIL, SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE STANDARD.

USER NAME = MARINIEJ	DESIGNED -	RW	REVISED -
	DRAWN -	RW	REVISED -
PLOT SCALE = 3.9370 ' / mm	CHECKED -	EM	REVISED -
PLOT DATE = 11/7/2019	DATE -	8/28/2019	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

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TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS		
FOR STRUCTURE NO. 053-0047	326	(122BR)BRR	LIVINGSTON	18	8	
TON STRUCTORE NO. 033-0047			CONTRACT	NO. 66	5K49	
SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT			

SCHEDULE - TRAFFIC CONTROL STRUCTURE NO. 053-0047

LOCATION	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	TEMPORARY BRIDGE TRAFFIC SIGNALS	TEMPORARY RUMBLE STRIPS (SPECIAL)	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS TEMPORARY (NON-REDIRECTIVE) TEST LEVEL 3	IMPACT ATTENUATORS RELOCATE (NON-REDIRECTIVE) TEST LEVEL 3	TEMPORARY INFORMATION SIGNING
	EACH	EACH	EACH	FOOT	FOOT	EACH	EACH	SQ FT
STAGE I	1	1	6	475		2		42
STAGE II					475		2	
TOTAL	1	1	6	475	475	2	2	42

SCHEDULE - PAVEMENT STRUCTURE NO. 053-0047

LOCATION	PAVEMENT REMOVAL
	SQ YD
NORTH APPROACH	81
SOUTH APPROACH	80
TOTAL	161

SCHEDULE - PAVEMENT MARKING STRUCTURE NO. 053-0047

	PAVEMENT	POLYUREA	POLYUREA
	MARK I NG	PAVEMENT	PAVEMENT
LOCATION	REMOVAL	MARK I NG	MARK I NG
	WATER	TYPE 1	TYPE 1
	BLASTING	LINE 4"	LINE 6"
	SQ FT	FOOT	FOOT
STAGE I	251		
STAGE II	153	928	184
TOTAL	404	928	184

SCHEDULE - PAVEMENT STRUCTURE NO. 053-0047

	PAVED
LOCATION	SHOULDER
	REMOVAL
	SQ YD
NE CORNER	18
SE CORNER	34
NW CORNER	34
SW CORNER	18
TOTAL	104

LOCATION	GUARDRAIL REMOVAL	STEEL PLATE BEAM GUARDRAIL, TYPE A	TRAFFIC BARRIER TERMINAL TYPE 6	TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REFLECTORS, TYPE A	LINEAR DELINEATOR PANELS, 4 INCH
	FOOT	FOOT	EACH	EACH	EACH	EACH
SE QUAD	220	75	1	1	2	1
NE QUAD	170	12.5	1	1	2	1
SW QUAD	170	12.5	1	1	2	1
NW QUAD	220	75	1	1	2	1
TOTAL	780	175	4	4	8	4

SCHEDULE - GUARDRAIL STRUCTURE NO. 053-0047

SCHEDULE - SUBBASE GRANULAR MATERIAL, TYPE B 4" STRUCTURE NO. 053-0047

LOCATION	SUBBASE GRANULAR MATERIAL, TYPE B 4"
	CU YD
NORTH APPROACH	89
SOUTH APPROACH	89
TOTAL	178

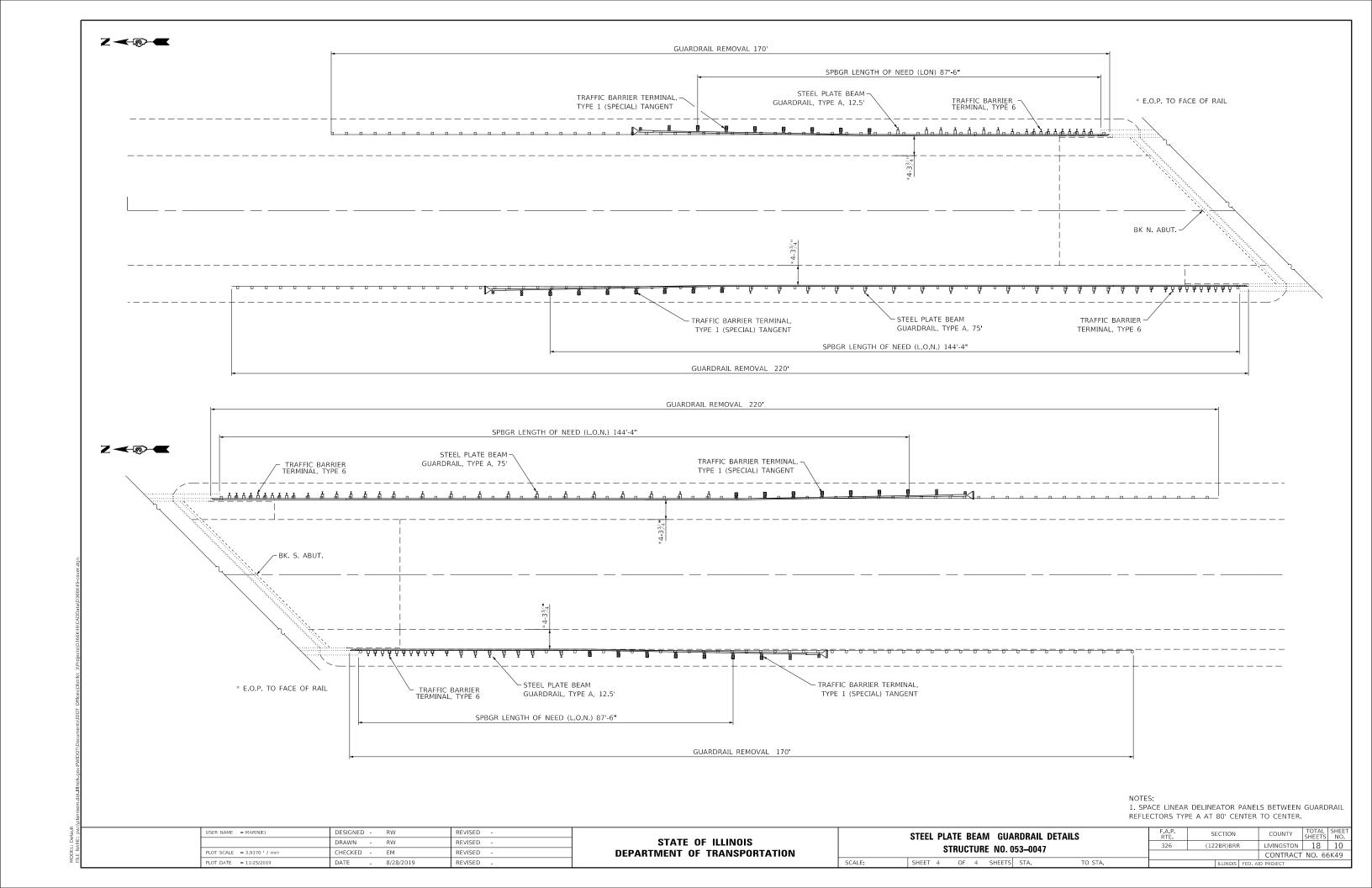
SCHEDULE - EXCAVATION STRUCTURE NO. 053-0047

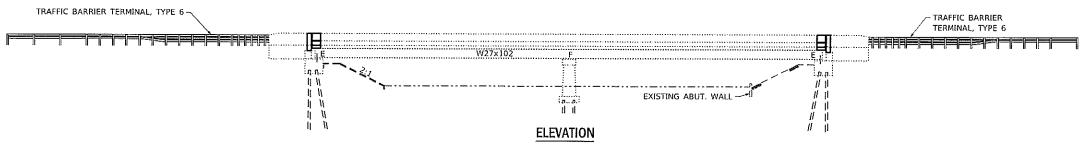
EARTH EXCAVATION
CU YD
39
39
78

USER NAME = MARINIEJ	DESIGNED -	RW	REVISED -
	DRAWN -	RW	REVISED -
PLOT SCALE = 3.9370 / mm	CHECKED -	EM	REVISED -
PLOT DATE = 11/20/2019	DATE -	8/28/2019	REVISED -

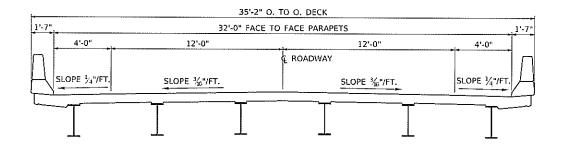
STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	ON

	SCHEDULE	S		F.A.P. RTE	S	ECTION		COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 053-0047			326	(12	2BR)BRF		LIVINGSTON	18	9	
							CONTRACT	NO. 66	5K49	
SCALE:	SHEET 1 OF 1 SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		





TOTAL BILL OF MATERIAL STRUCTURE NO. 053-0047



CROSS SECTION LOOKING SOUTH

ITEM	UNIT	SUPER	SUB	TOTAL
BRIDGE APPROACH SHOULDER REMOVAL	SQ, YD,	34		34
APPROACH SLAB REMOVAL	SQ. YD.	170		170
WELDED WIRE REINFORCEMENT	SQ. YD.	238		238
PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ. YD.	238		238
BRIDGE DECK GROOVING	SQ. YD.	497		497
CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU, YD.	124		124
CONCRETE REMOVAL	CU.YD.	12.4		12.4
CONCRETE SUPERSTRUCTURE	CU.YD.	12.4		12.4
REINFORCEMENT BARS EPOXY COATED	POUND	37934		37934
PROTECTIVE COAT	SQ.YD.	504		504
PREFORMED JONT STRIP SEAL	FOOT	96		96
DECK SLAB REPAIR (PARTIAL)	SQ. YD.	38		38
BAR SPLICERS	EACH	252		252
TIE BARS ¾"	EACH	48		48
CONCRETE STRUCTURES	CU. YD.	29.8		29.8

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 WORK; HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE BID FOR THE WORK.

NO FIELD WELDING IS PERMITTED EXCEPT AS SPECIFIED IN THE CONTRACT DOCUMENTS.

REINFORCEMENT BARS DESIGNATED (E) SHALL BE EPOXY COATED.

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 INLCUDED IN THE PAY ITEM COVERING REMOVAL OF THE EXISTING CONCRETE.

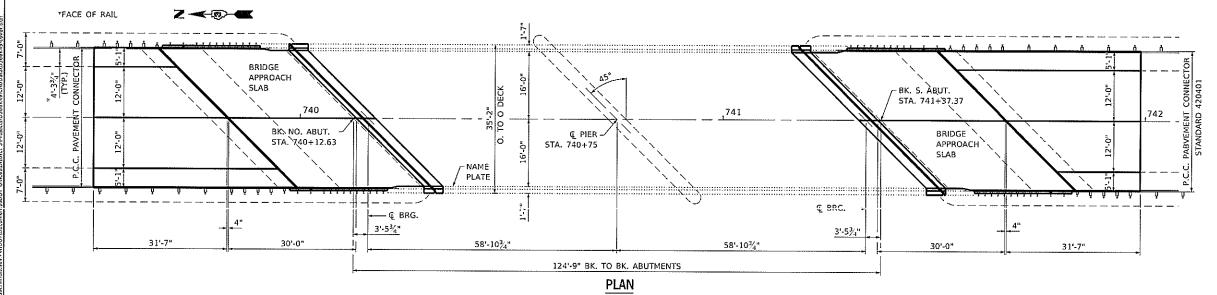
PROTECTIVE COAT SHALL BE APPLIED TO ALL NEW CONCRETE SURFACES

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.

AS DIRECTED BY THE ENGINEER, EXISTING CONSTRUCTION ACCESSORIES WELDED TO THE TOP FLANGE OF BEAMS AND GIRDERS SHALL BE REMOVED. THE WELD AREAS SHALL BE GROUND FLUSH AND INSPECTED FOR CRACKS USING MAGNETIC PARTICLE TESTING (MT) OR DYE PENETRANT TESTING (PT) BY QUALIFIED PERSONNEL APPROVED BY THE ENGINEER. ANY CRACKS THAT CANNOT BE REMOVED BY GRINDING 1/4" DEEP SHALL BE IDENTIFIED AND REPORTED TO THE BUREAU OF BRIDGES AND STRUCTURES FOR FURTHER DISPOSITION. THE COST OF REMOVING WELDED ACCESSORIES, GRINDING AND INSPECTING WELD AREAS AND GRINDING CRACKS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

JOINT OPENING SHALL BE ADJUSTED ACCORDING TO ARTICLE 520.04 OF THE STANDARD SPECIFICATIONS WHEN THE DECK IS POURED AT AN AMBIENT TEMPERATURE OTHER THAN 50 DEGREES F.

ALL TIE BARS SHOWN ON PLAN DETAILS SHALL BE EPOXY COATED



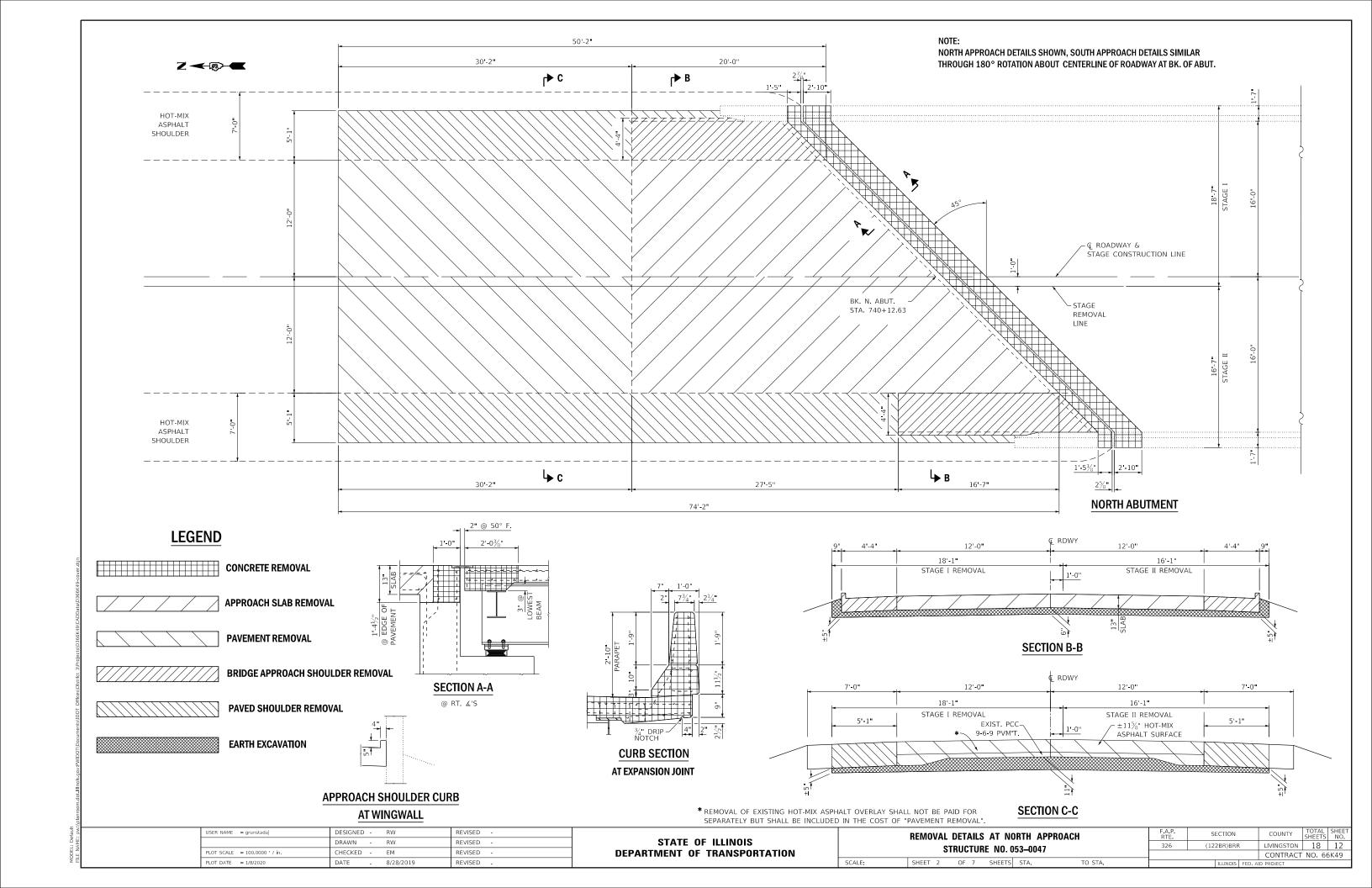
CARL AUMINION OF STRUCTURAL ENGINEER OF ILLINIUM OF IL

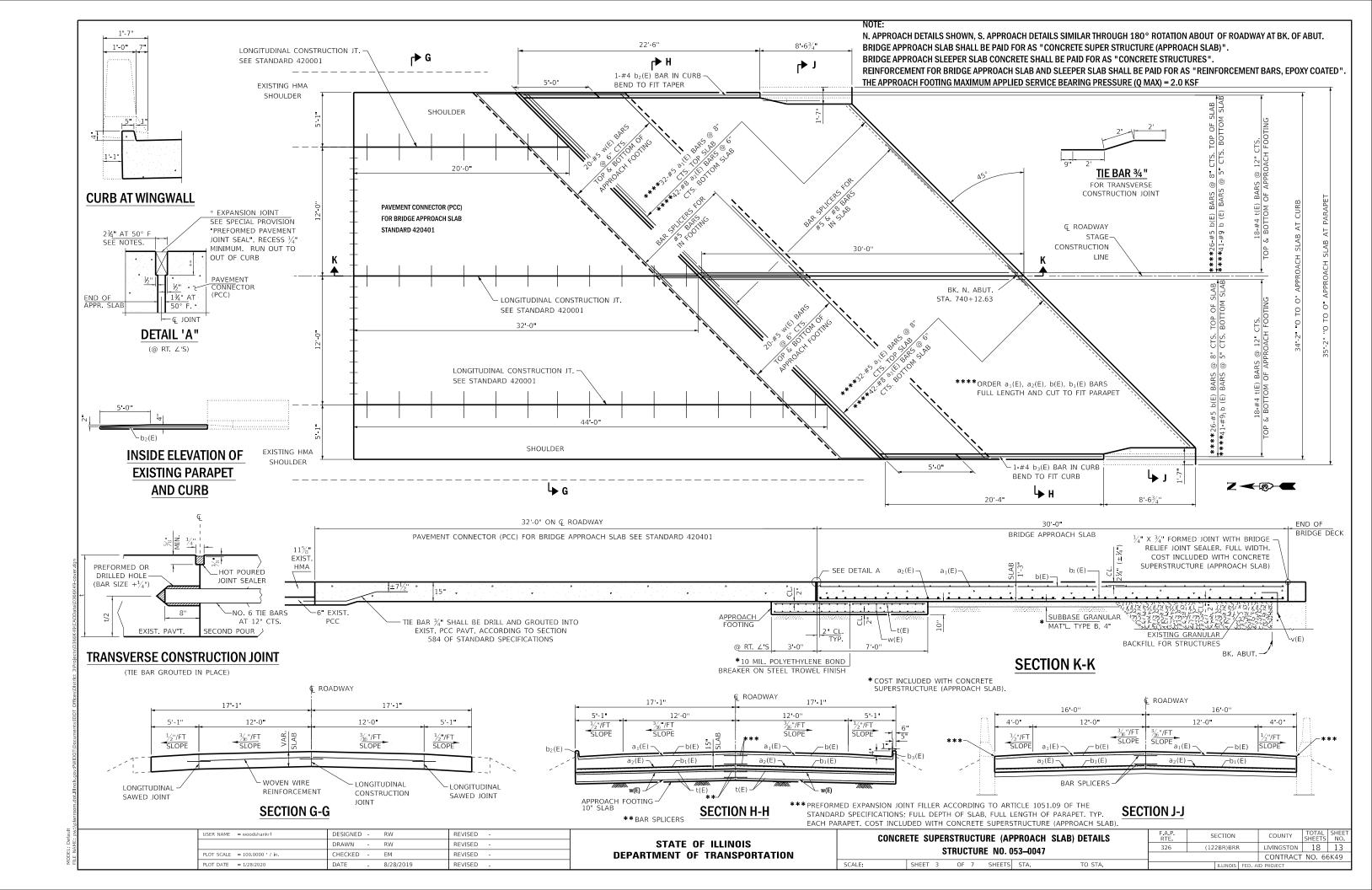
STRUCTURE NO. 053-0047

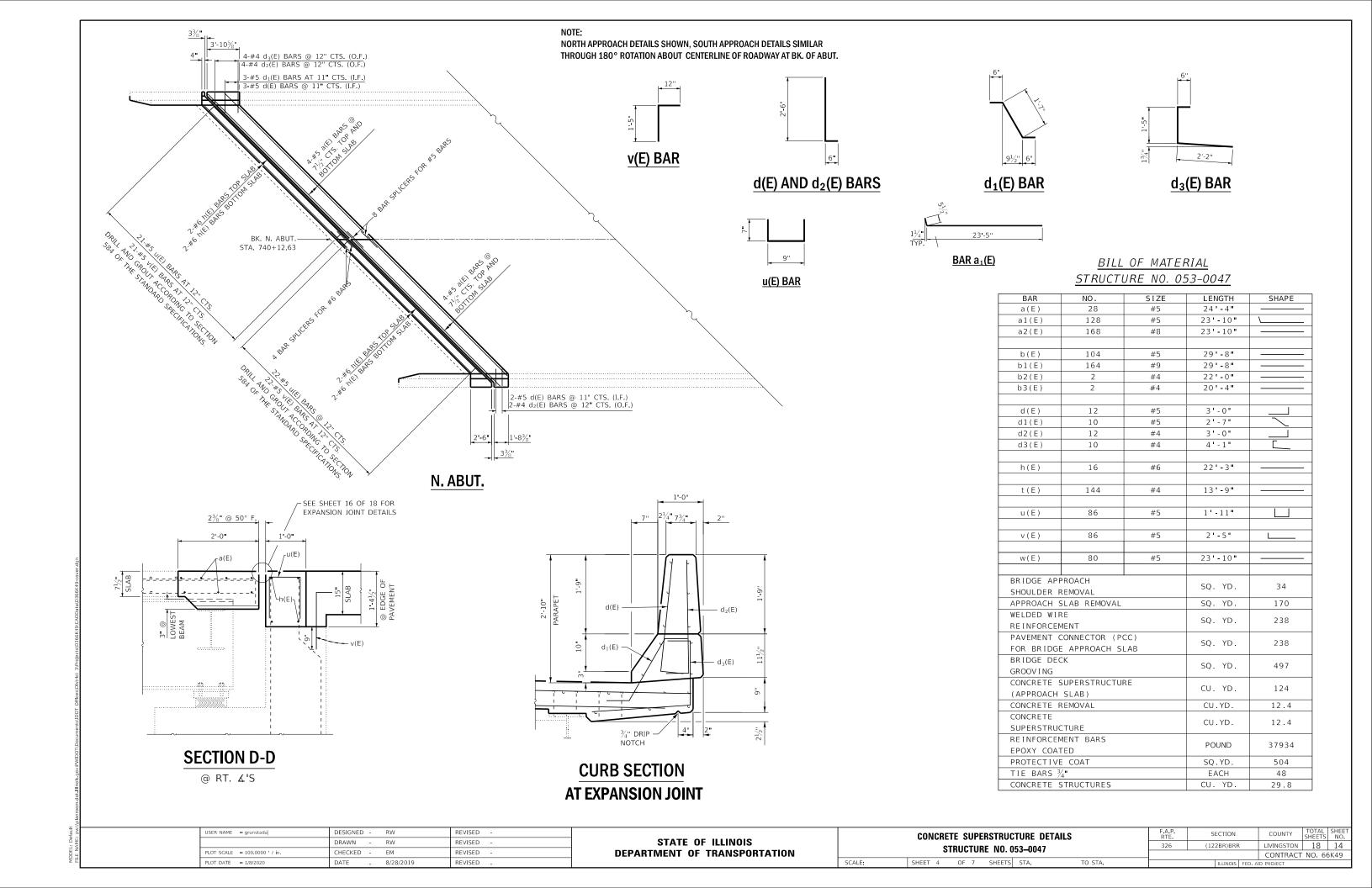
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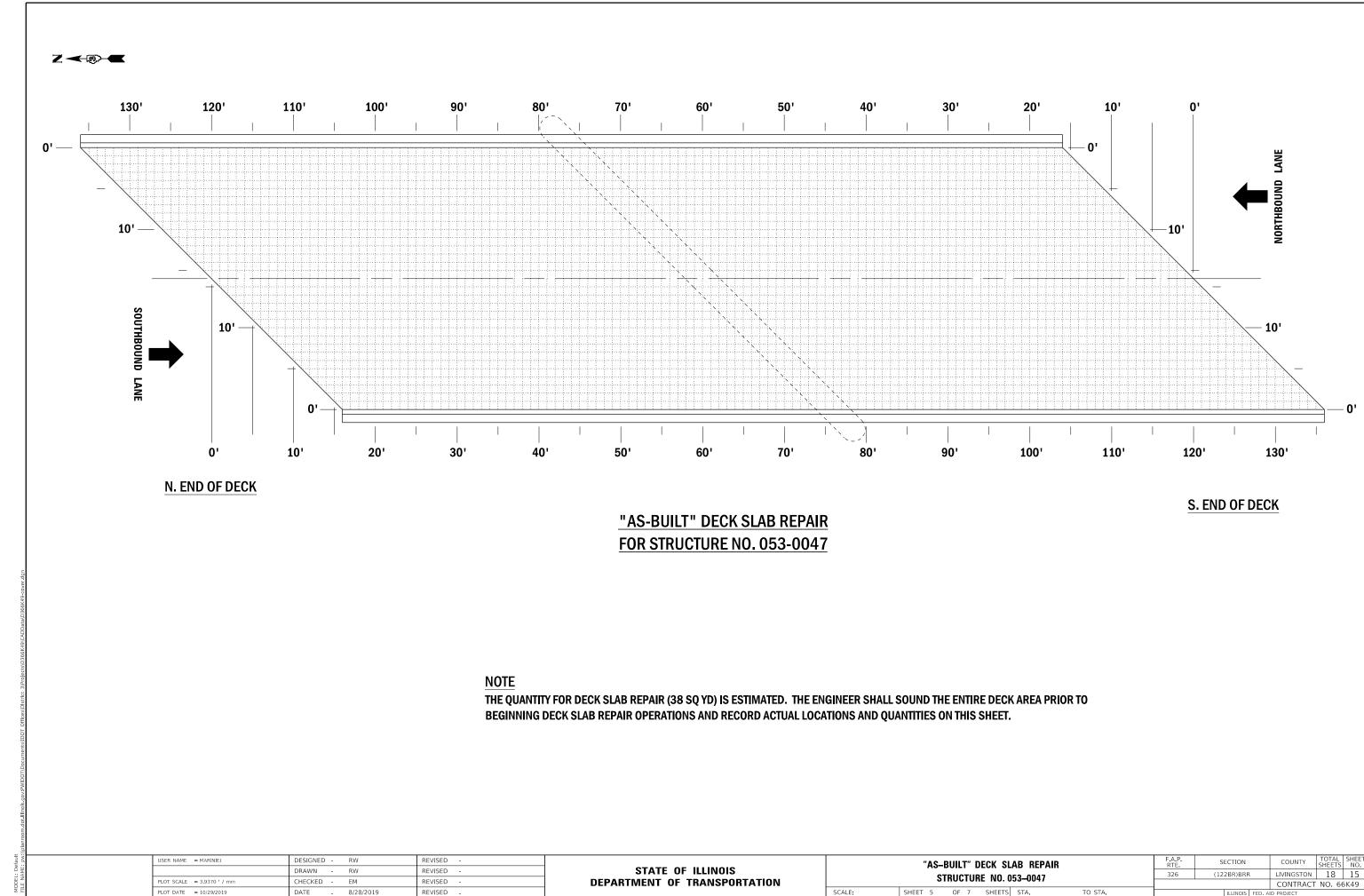
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

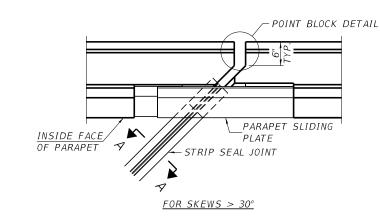
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STRUCTURE NO. 053-0047							
SCALE:	SHEET 1 OF 7 SHEETS STA.	TO STA,					

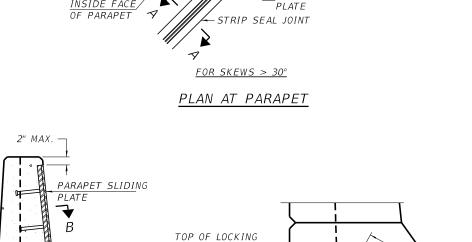












EDGE RAIL

TOP OF DECK

ELEVATION AT PARAPET

DETAIL A

3%" Ø X 6" STUDS €

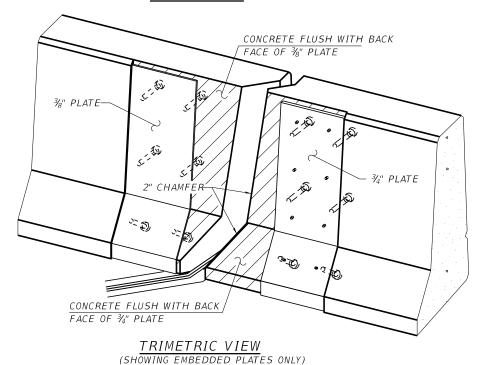
(SKEWS > 30° SHOWN. SKEWS ≤ 30° SIMILAR EXCEPT AS SHOWN IN PLAN VIEW.)

INSIDE FACE

OF PARAPET

* ¾" Ø X 6" STUDS (6 PER SIDE 34" PARAPET) (8 PER SIDE 42" PARAPET) 胃¾" EMBEDDED PLATE FULL DEPTH ¾" EMBEDDED PLATE MIN. LAP FULL DEPTH 1/2" PARAPET SLIDING PLATE 3/8" Ø COUNTERSUNK BOLTS 1'-0' (8 PER SIDE 34" PARAPET) (10 PER SIDE 42" PARAPET) DIRECTION OF TRAFFIC

SECTION B-B



THE STRIP SEAL SHALL BE MADE CONTINUOUS AND SHALL HAVE A MINIMUM THICKNESS OF 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 4½" 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.

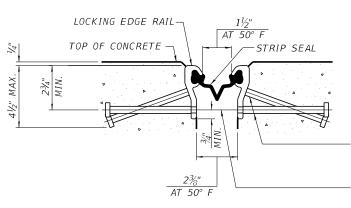
THE MAXIMUM SPACE BETWEEN LOCKING EDGE RAIL SEGMENTS SHALL BE $\frac{1}{16}$ AND SEALED WITH A SUITABLE SEALANT; HOWEVER, ANY RAIL JOINT WITHIN 10' MEASURED PERPENDICULAR TO THE FACE OF THE CURB OR PARAPET SHALL BE WELDED AS SHOWN IN THE LOCKING EDGE RAIL SPLICE DETAIL.

COST OF PARAPET SLIDING PLATES, EMBEDDED PLATES, AND ANCHORAGE STUDS INCLUDED WITH PREFORMED JOINT STRIP SEAL. 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.

BILL OF MATERIAL STRUCTURE NO. 053-0047

ITEM	UNIT	TOTAL
PREFORMED JOINT STRIP SEAL	FOOT	96

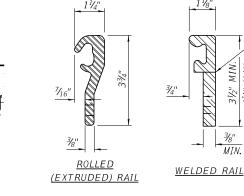


SHOWING ROLLED RAIL JOINT

LOCKING EDGE RAIL AT 50° F TOP OF CONCRETE -STRIP SEAL * $\frac{5}{6}$ " Ø X 6" STUDS @ 6" CTS. (ALTERNATE ANGLED/BENT STUDS WITH HORIZONTAL STUDS) %" Φ THREADED RODS IN %" Φ HOLES AT ±4'-0" CTS. FOR HOLDING THE PROPER JOINT OPENING BASED ON

THE TEMPERATURE DURING THE DECK POUR. PLACE TO MISS STUDS. ALL RODS SHALL BE BURNED, OR SAWED OFF FLUSH WITH THE PLATES AFTER CONCRETE IS SET.

DETAIL A

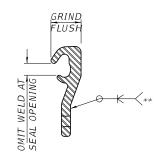


SCALE:

LOCKING EDGE RAILS

** BACK GOUGE NOT REQUIRED IF COMPLETE JOINT PENETRATION IS VERIFIED BY MOCK-UP.

3/8"



LOCKING EDGE RAIL SPLICE

THE INSIDE OF THE LOCKING EDGE RAIL GROOVE SHALL BE FREE OF WELD RESIDUE. ROLLED RAIL SHOWN, WELDED RAIL SIMILAR.

SECTION A-A

* GRANULAR OR SOLID FLUX FILLED HEADED STUDS CONFORMING TO ARTICLE 1006.32 OF THE STD. SPECS., AUTOMATICALLY END WELDED.

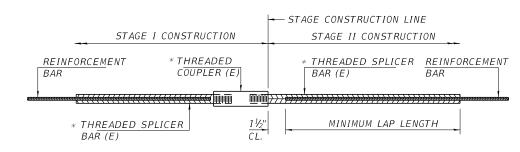
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Default	PLOT DATE = 10/29/2019	DATE -	7/23/2019	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

SHOWING WELDED RAIL JOINT

STRIP SEAL EXPANSION JOINT DETAILS					F.A.P. RTE	S	ECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
FOR STRUCTURE NO. 053-0047				326	326 (122BR)BRR				18	16			
1 OK OK COLORE 110: 000 00+1									CONTRACT	NO. 66	5K49		
SHEET	6	OF	7	SHEETS	STA.	TO STA.			ILLINOIS	FED A	ID PROJECT		



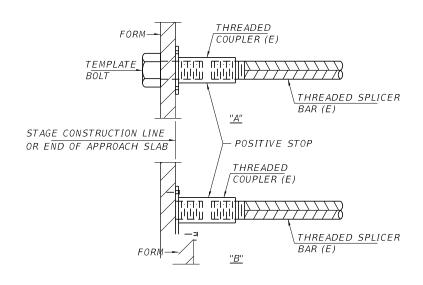
STANDARD BAR SPLICER ASSEMBLY

THREADED SPLICER BAR LENGTH = MIN. LAP LENGTH + 11/2" + THREAD LENGTH

* EPOXY NOT REQUIRED ON BAR SPLICER ASSEMBLY COMPONENTS USED IN CONJUNCTION WITH BLACK BARS.

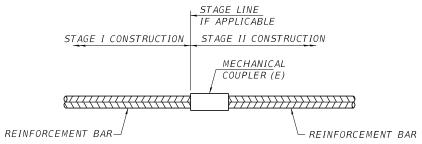
BILL OF MATERIAL STRUCTURE NO. 053-0047

LOCATION	BAR SIZE	NO. ASSEMBLIES REQUIRED	MINIMUM LAP LENGTH
N. DECK	#5	8	3'-0"
S. DECK	#5	8	3'-0"
N. HATCHBLOCK	#6	4	4'-0"
S. HATCHBLOCK	#6	4	4'-0"
N. APPR. SLAB-TOP	#5	32	3'-4"
N. APPR. SLAB BOTTOM	#8	42	5'-4"
N. APPR. FOOTING	#5	40	3'-0"
S. APPR. SLAB-TOP	#5	32	3'-4"
S. APPR. SLAB BOTTOM	#8	42	5'-4"
S. APPR. FOOTING	#5	40	3' -0"



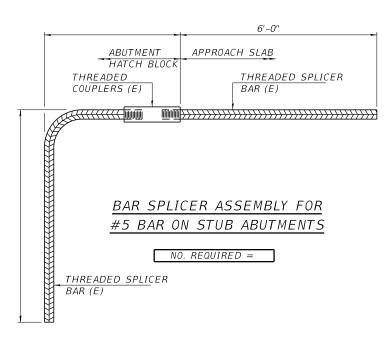
INSTALLATION AND SETTING METHODS

"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.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



SCALE:

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.

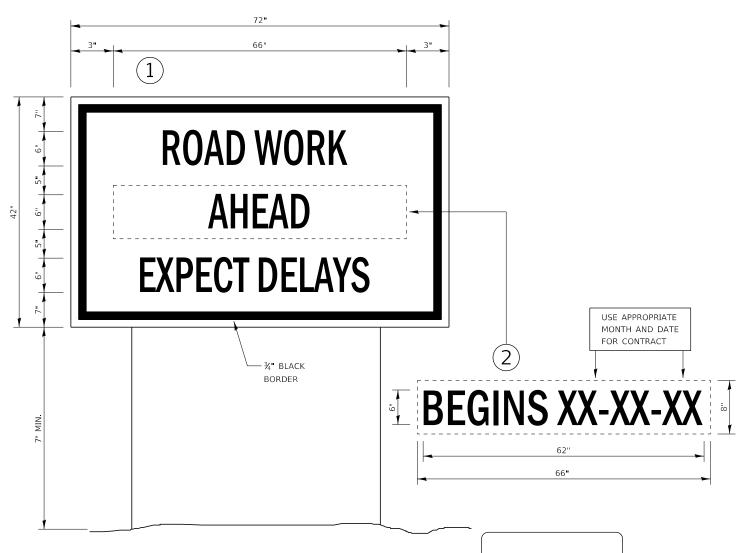
BSD-1

2-17-2017

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Default	PLOT DATE = 1/28/2020	DATE -	7/23/2019	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS								SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FOR STRUCTURE NO. 053-0047							326	(122BR)BRR	LIVINGSTON	18	17
									CONTRACT	NO. 66	5K49
CALE:	SHEET 7	OF	7	SHEETS	STA	TO STA		TILLINOIS FED A	ID PROJECT		

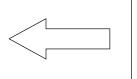


NO PASSING ZONE LINE EDGE LINE WHITE TYP CENTERLINE & NO PASSING ZONE LINES - YELLOW

PAVEMENT MARKING

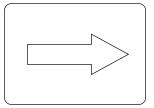
12" D BLACK LETTERING WITH ORANGE BACKGROUND W12-I 101 (O) X MILES AHEAD 4" D BLACK LETTERING WITH ORANGE BACKGROUND

TEMPORARY INFORMATION SIGNING

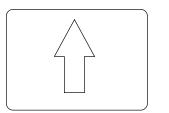


NOTES:

- 1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
- 2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN(1)WITH INSTALLED PANEL(2)A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
- 4. REMOVE PANEL ON THAT DATE.
- 5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL(2)WILL NOT BE MEASURED SEPARATELY FOR PAYMENT



M6-1 21"X15" BLACK ON FLUORESCENT ORANGE



BLACK ON FLUORESCENT ORANGE

WIDTH RESTRICTION SIGNING DETAILS

COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

DIRECTIONAL ARROWS

FILE NAME = USER NAME = MARINIEJ DESIGNED -REVISED SECTION **STATE OF ILLINOIS MISCELLANEOUS DETAILS** es\District 3\Projects\D366K49\CADData\D366 DRAWN -EM REVISED (122BR)BRR LIVINGSTON 18 18 REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 66K49

SHEET 1 OF 1 SHEETS STA.