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18 - 20 TYPICAL PAVEMENT MARKINGS (DISTRICT STD 41.1)

GUARDRAIL REFLECTORS, TYPE C (SPECIAL) (DISTRICT STD 55.1)

## **STATE STANDARDS**

000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS DECIMAL OF AN INCH AND OF A FOOT 001006 606001-08 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER STEEL PLATE BEAM GUARDRAIL 630001-12 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS TRAFFIC BARRIER TERMINAL, TYPE 6 631031-17 642006-01 SHOULDER RUMBLE STRIPS, 8 IN. 701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE 701201-05 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER 701321-18 701901-08 TRAFFIC CONTROL DEVICES 704001-08 TEMPORARY CONCRETE BARRIER 780001-05 TYPICAL PAVEMENT MARKINGS 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS 782006-01 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS



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## STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

#### SECTION COUNTY INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES 1087 (106BR-2)BDR STEPHENSON CONTRACT NO. 64R13 SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA.

**GENERAL NOTES** 

ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF

THE CONTRACTOR SHALL SUBMIT A SEQUENCE OF CONSTRUCTION OPERATIONS TO THE RESIDENT ENGINEER FOR APPROVAL BEFORE THIS PROJECT IS STARTED.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS, A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123.

NO STREAM PERMITS HAVE BEEN PROCURED FOR THIS PROJECT. NONE ARE REQUIRED FROM THE REGULATORY AGENCIES IF THERE IS NO DEBRIS FALLING OR BEING PLACED INTO THE STREAM, ANY TEMPORARY FILL IN THE STREAM OR THE COMPROMISING OF THE DIKE (IF APPLICABLE) WILL NOT BE ALLOWED. IF THE CONTRACTOR CHOOSES TO USE ALTERNATE/MODIFIED CONSTRUCTION METHOD(S), THEY WILL BE RESPONSIBLE FOR OBTAINING THE PROPER PERMITS. NO RELIEF OR COMPENSATION WILL BE GIVEN FOR ANY DELAYS. WORKING DAYS CHARGED OR CALENDAR DAYS EXPIRED DUE TO THE LOSS OF TIME OR DELAY DURING THE RE-SUBMITTAL PROCESS TO PROCURE THE NECESSARY PERMIT(S) DUE TO THE CONTRACTOR CHOOSING ALTERNATE/MODIFIED CONSTRUCTION METHOD(S). ABSOLUTELY NO CONSTRUCTION ACTIVITIES WILL TAKE PLACE WITHOUT THE PROPER PERMITS BEING SECURED.

ALL ELEVATIONS SHOWN IN PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).

IDOT DISTRICT 2 OPERATIONS TRAFFIC SIGNAL SECTION SHALL BE CONTACTED AT 815-284-2271 FOR CONTROLLER PROGRAMMING AND TIMING APPROVAL PRIOR TO ACTIVATING THE TEMPORARY BRIDGE TRAFFIC SIGNALS.

THERE ARE NO COMMITMENTS ASSOCIATED WITH THIS PROJECT.

THE QUANTITIES INCLUDED IN THE PLANS FOR HOT-MIX ASPHALT RESURFACING ARE INTENDED TO GIVE THE COVERAGE SHOWN ON THE TYPICAL CROSS SECTIONS. IT IS NOT INTENDED TO INCREASE THE THICKNESS OF THE HOT-MIX ASPHALT MIXTURE IN ORDER TO USE ALL OF THE QUANTITIES INCLUDED IN THE CONTRACT.

ALL SAW CUTS NECESSARY TO COMPLETE THE WORK DETAILED IN THESE PLANS SHALL BE INCLUDED IN THE COST FOR THE VARIOUS PAY ITEMS INVOLVED.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE(S):	HMA CONC SURF CSE
PG:	PG 64 <b>-</b> 22
DESIGN AIR VOIDS:	4.0% @ N DESIGN - 50
MIXTURE COMPOSITION:	IL 9.5
FRICTION AGGREGATE:	MIX "C"
QUALITY MANAGEMENT PROGRAM:	QC / QA
SUBLOT SIZE:	N / A

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE PLAN QUANTITIES:

BITUMINOUS MATERIALS (TACK COAT) 0.05 LBS / SQ FT (ON PAVEMENT) BITUMINOUS MATERIALS (TACK COAT) 0.025 LBS / SQ FT (FOG) HOT-MIX ASPHALT MATERIAL 0.056 TON / SQ YD PER 1" AGGREGATE MATERIAL 1.60 TONS / CU YD

PAVEMENT MARKING SHALL BE DONE ACCORDING TO STANDARD 780001, EXCEPT AS FOLLOWS:

- ALL WORDS, SUCH AS ONLY, SHALL BE 8 FEET HIGH.
- ALL NON-FREEWAY ARROWS SHALL BE THE LARGE SIZE.
- 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.
- CENTERLINE SKIP DASH PAVEMENT MARKING ON MULTI-LANE DIVIDED, MULTI-LANE UNDIVIDED, AND ONE-WAY ROADWAY SHALL BE ACCORDING TO DISTRICT STANDARD 41.1.

UNLESS DIRECTED BY THE ENGINEER, PAVEMENT MARKING LINES SHALL NOT BE LAID DIRECTLY OVER A LONGITUDINAL CRACK OR JOINT NOR OVER A TAR OR ASPHALT PAINTED LINE.

- THE EDGE OF A CENTERLINE OR LANE LINE SHALL BE OFFSET A MINIMUM DISTANCE OF 2" FROM A LONGITUDINAL
- EDGE LINES SHALL BE APPROXIMATELY 2" FROM THE EDGE LINE OF PAVEMENT. SEE SECTION 780 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL ITEMS.

AREAS OF DECK REPAIRS SHOWN ARE ESTIMATED. THE ENGINEER SHALL SHOW ACTUAL LOCATIONS OF DECK REPAIRS ON

MICROSILICA CONCRETE SHALL INCLUDE MACRO-SIZE, TYPE III, SYNTHETIC FIBERS MEETING THE 'BRIDGE DECK MICROSILICA CONCRETE OVERLAY' SPECIAL PROVISION.

21

CONSTRUCTION CODE BRIDGE 0047 80% FED / 20% STATE

<u> </u>				·
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SN 089-0066 STEPHENSON COUNTY
		E	$\triangle$	$\bigwedge$
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	> 382 \	382
			4	4
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	356	356
40600990	TEMPORARY RAMP	SQ YD	54	54
			$\bigcirc \bigcirc \triangle$	$\sim \Lambda$
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	62	62
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	43	43
42001300	PROTECTIVE COAT	SQ YD	383	383
44000100	PAVEMENT REMOVAL	SQ YD	43	43
				$\bigcirc \bigcirc \triangle$
48203023	HOT-MIX ASPHALT SHOULDERS, 6 1/2"	SQ YD	649	649
59000200	EPOXY CRACK INJECTION	FOOT	57	57
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	63	63
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3	3
63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1	1
63200310	GUARDRAIL REMOVAL	FOOT	413	413
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	224	224
-				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	2	2

<sup>\*</sup> DENOTES SPECIALTY ITEM



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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

		SUMMARY	OF QUA	ANTITIES	
SCALE: N.T.S.	SHEET 1	0F 3	SHEETS	STA.	TO STA.

CONSTRUCTION CODE BRIDGE 0047 80% FED / 20% STATE

	7.		(199)		80% TED / 20% STATE
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	SN 089-0066 STEPHENSON COUNTY
*	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	28	28
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	9	9
	X4404260	PAVED SHOULDER REMOVAL (SPECIAL)	SQ YD	649	649
	X5030250	BRIDGE DECK GROOVING (LONGITUDINAL)	SQ YD	288	288
*	X7820007	GUARDRAIL REFLECTORS, TYPE C (SPECIAL)	EACH	15	15
	Z0001800	APPROACH SLAB REPAIR (PARTIAL DEPTH)	SQ YD	10	10
	Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	383	383
	Z0012164	BRIDGE DECK MICROSILICA CONCRETE OVERLAY 2 1/2"	SQ YD	383	383
	Z0016002	DECK SLAB REPAIR (FULL DEPTH, TYPE II)	SQ YD	5	5
	Z0029090	DIAMOND GRINDING (BRIDGE SECTION)	SQ YD	335	335
		d.			

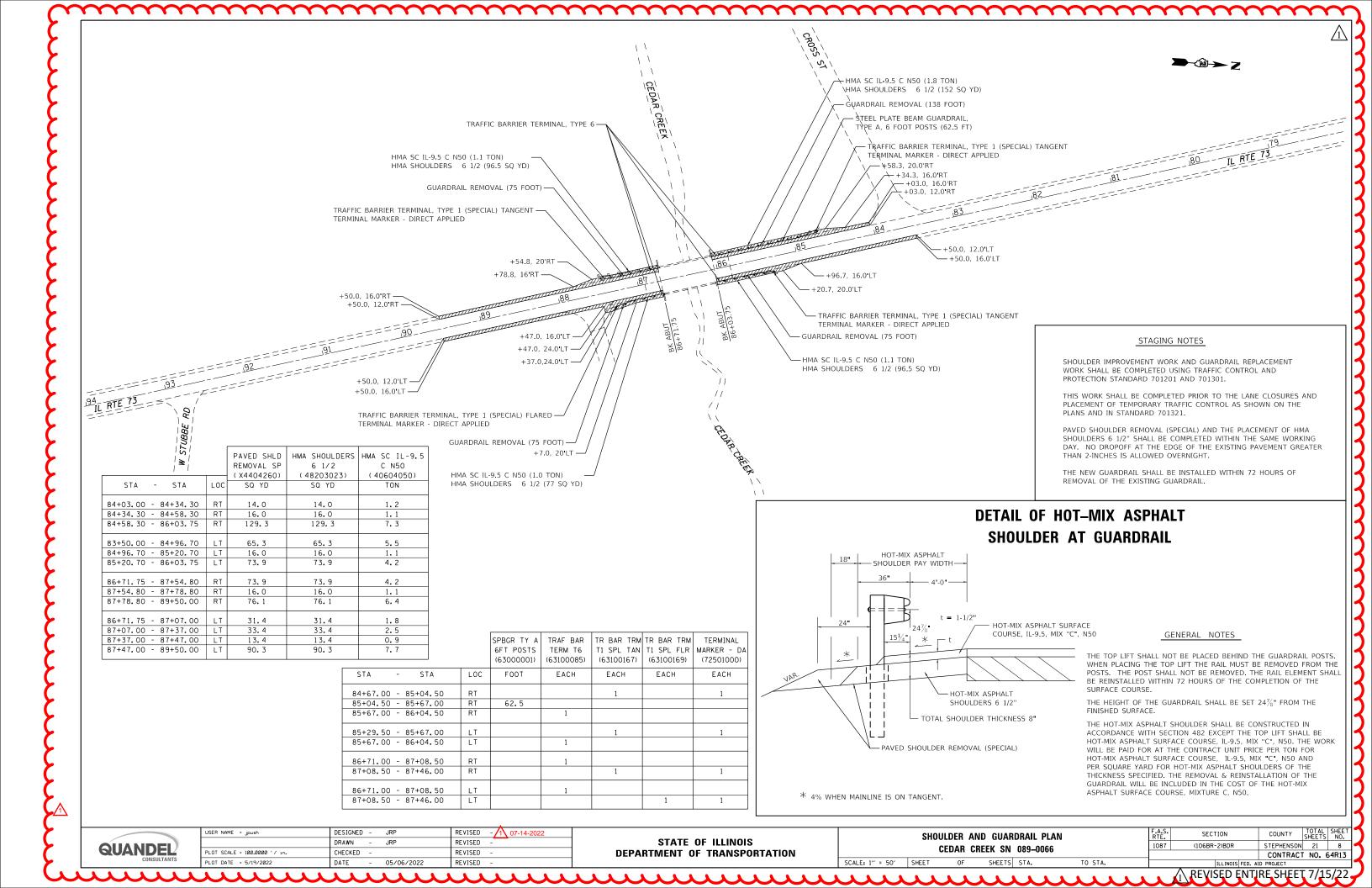
\* DENOTES SPECIALTY ITEM

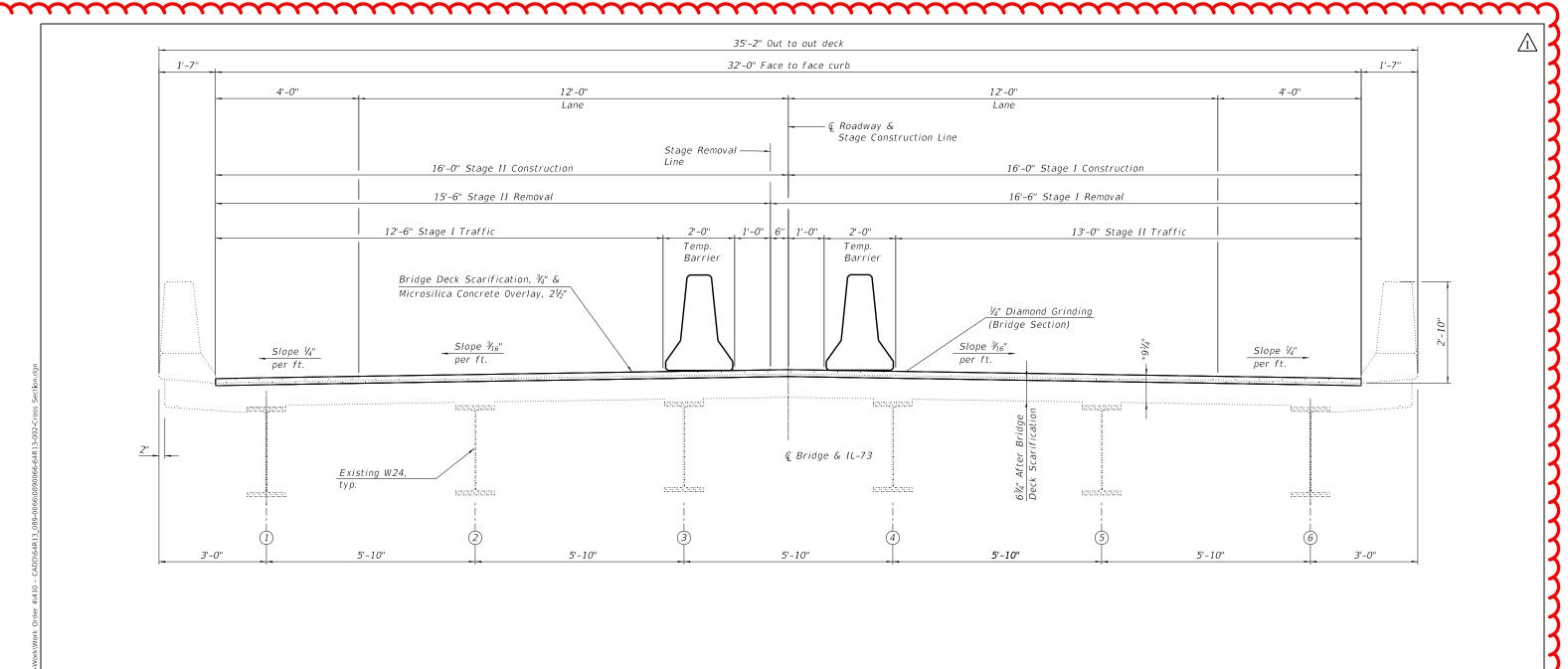


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

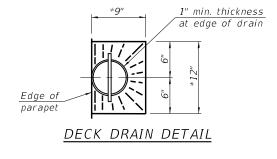
1	1							RTE.	SECTION
1	SUMMARY OF QUANTITIES						1087	(106BR-2)BDR	
						6			
	SCALE: N.T.S.	SHEET 3	OF	3	SHEETS	STA.	TO STA.		ILLINOIS FED. AI





CROSS SECTION (Looking South)

\*Prior to grinding



 Prairie Engineers, P.C.
 USER NAME = jtippett
 DESIGNED - JRT
 REVISED - 07-14-2022

 Prairie
 CHECKED - JPB
 REVISED - 07-14-2022

 Prairie
 (217) 69-34-93
 PLOT SCALE = 0.166666 '/ in.
 DRAWN - JLM
 REVISED - DRAWN - SUISED - SUISE

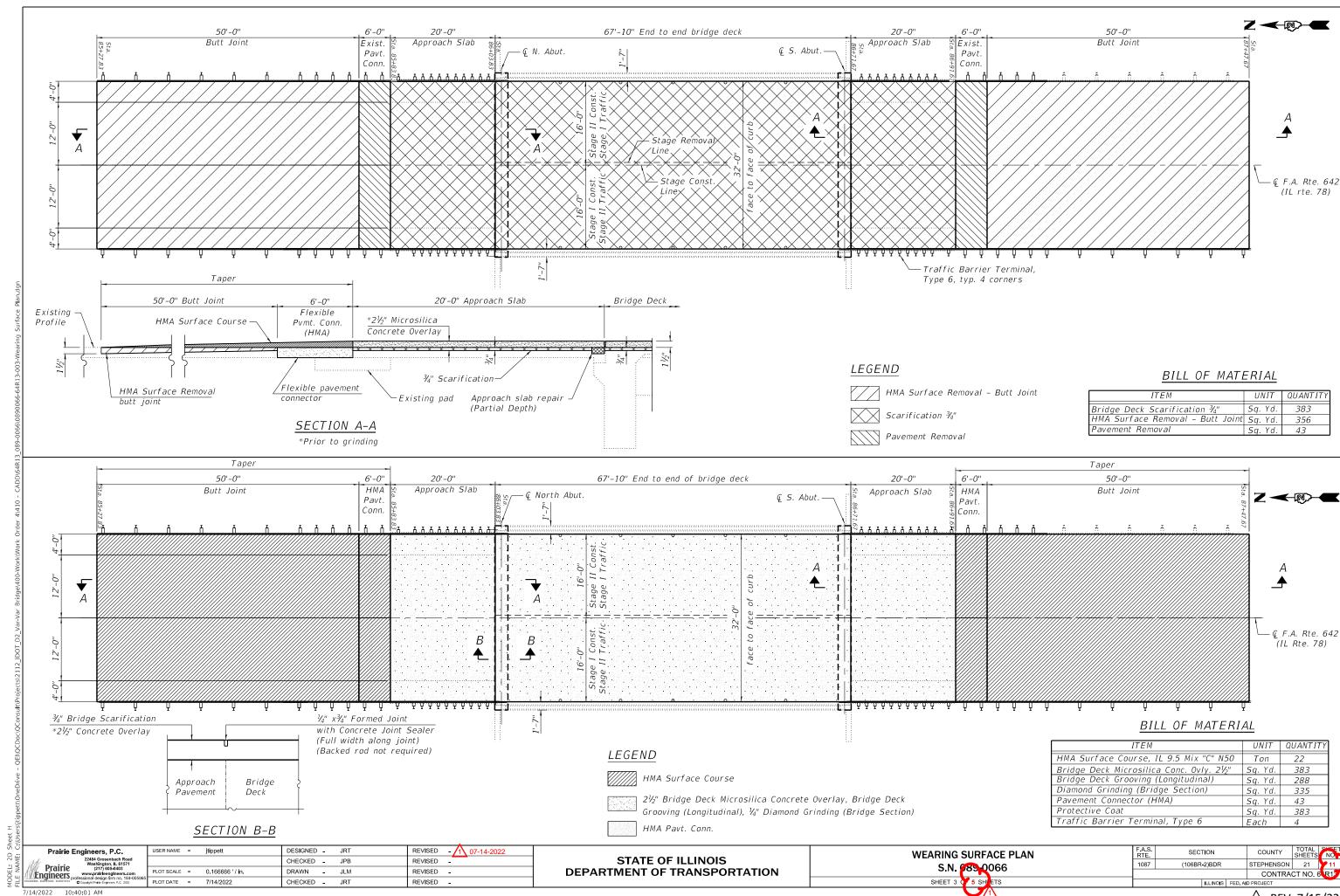
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

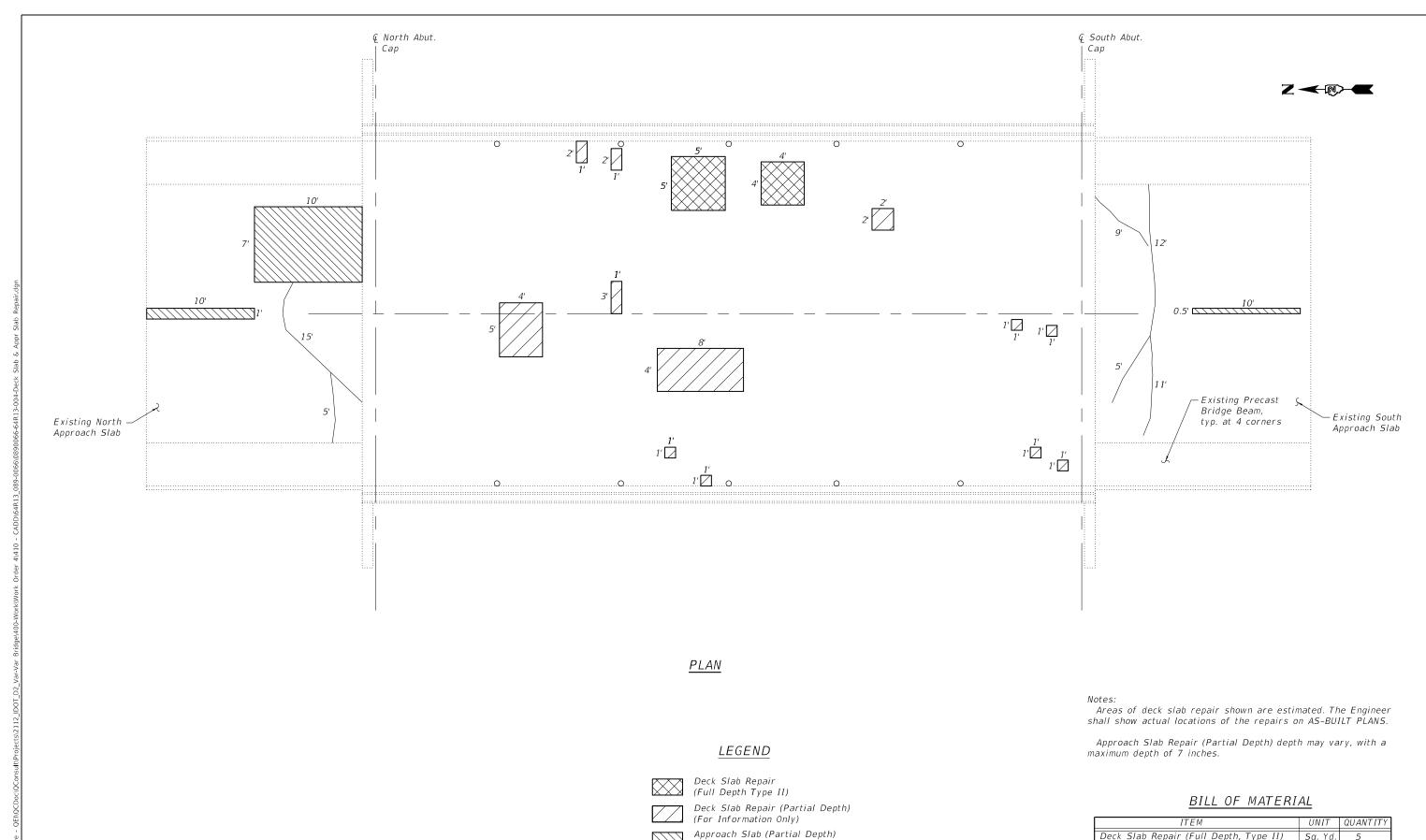
CROSS SECTION
S.N. 089-0066

SHEET 2 OF 5 SHEETS

REVISED ENTIRE SHEET 7/15/22

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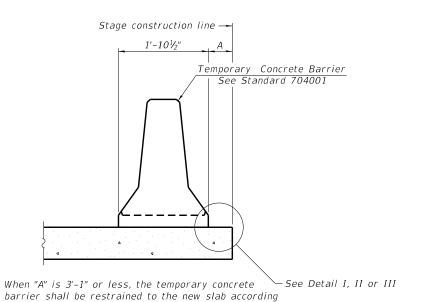
ITEM	UNIT	QUANTITY
Deck Slab Repair (Full Depth, Type II)	Sq. Yd.	5
Approach Slab Repair (Partial Depth)	Sq. Yd.	10
Epoxy Crack Injection	Foot	57

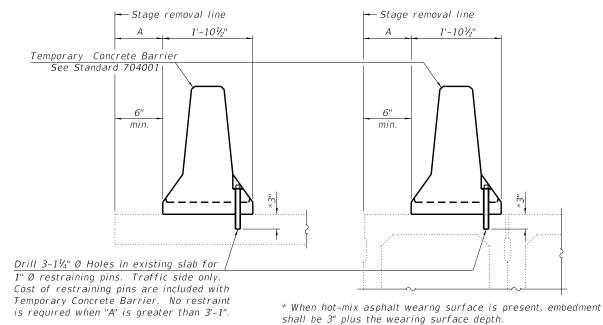
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

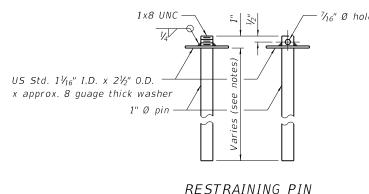
-See Note

Epoxy Crack Injection

DECK SLAB AND APPROACH SLAB REPAIR PLAN S.N. 632-0066 <u>1</u> REV. 7/15/22







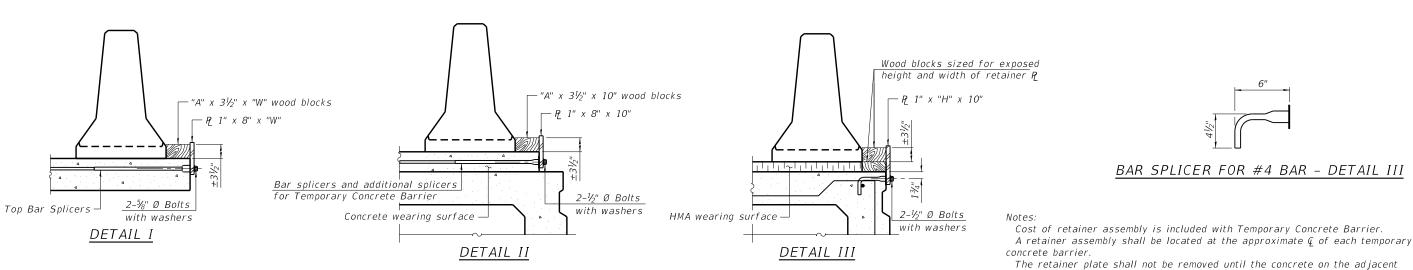
### NEW SLAB OR NEW DECK BEAM

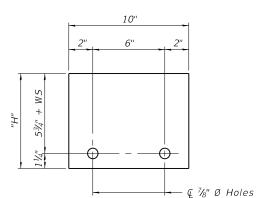
to Detail I, II or III. No restraint is required

when "A" is greater than 3'-1".

SECTIONS THRU SLAB OR DECK BEAM

EXISTING SLAB





EXISTING DECK BEAM

STEEL RETAINER P 1" x "H" x 10" (Detail III)

Detail III - Installation for a new deck beam with no initial wearing surface or with an initial hot-mix asphalt (HMA) wearing surface present. The deck beam directly beneath the temporary concrete barrier shall be fabricated 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, shall be placed at 6'-0" centers along the length of the beam. The cost of the bar splicers is included with the deck beam.

stage is ready to be poured. For Detail III applications the retainer plate shall not be removed until just prior to placing the adjacent beam.

When the 'A' dimension is less than  $1\frac{1}{2}$ ", the wood block shall be omitted

Detail I - Installation for a new bridge deck or bridge slab.

and the barrier shall be placed in direct contact with the steel retainer plate. For deck beam applications the minimum required 'A' distance is 6" to accommodate

Detail II - Installation for a new deck beam with an initial concrete wearing

surface. Additional bar splicers shall be provided at 6'-0" centers

and paired with the bar splicers of the concrete wearing surface reinforcement to accommodate the installation of the retainer assemblies. The cost of the additional bar splicers is included with the concrete

BAR SPLICER FOR #4 BAR - DETAIL III

# STEEL RETAINER P 1" x 8" x "W"

2" Top bars Spa. 2"

Detail I

Detail II

Detail I

Detail II

¢ 1/8" Ø Holes

(Detail I and II)

R-27

2-17-2017			
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634"

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**  TEMPORARY CONCRETE BARRIER FOR STAGE CONSTRUCTION **STRUCTURE NO. 089-0066** SHEET 5 OF 5 SHEETS

the shear key clamping device.

wearing surface.

SECTION (106BR-2)BDR STEPHENSON 21 CONTRACT NO. 4R1

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/i\ REV. 7/15/22

RESTRAINING PIN