11-08-2019 LETTING ITEM 041

FOR INDEX OF SHEETS, SEE SHEET NO. 2

ADT (2017) = 2800

041

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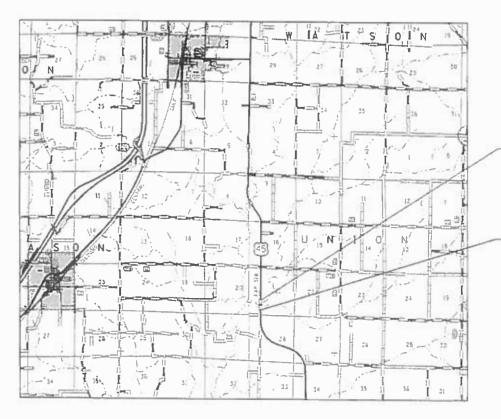
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STATE-OF-ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PROPOSED **HIGHWAY PLANS**

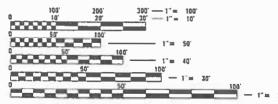
FAP ROUTE 328A (US 45) SECTION (3BR-2, 3BR-3)BR **PROJECT NHPP FJZY (701)** SUPERSTRUCTURE DECK REPLACEMENT **EFFINGHAM COUNTY**

C-97-085-18



SN 025-0080 STA 635+92

SN 025-0081 STA 640 + 36.1



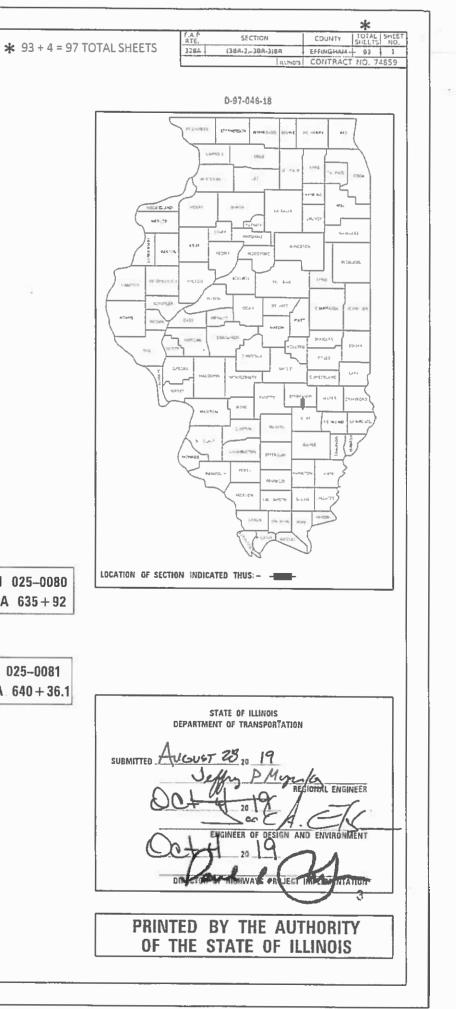
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.1.E, JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS 1-800-892-0123 OR 811

PROJECT ENGINEER: BRIAN BIERMAN PROJECT MANAGER: DEB BARRETT

CONTRACT NO. 74859

GROSS LENGTH = 1222 FT. = 0.231 MILE NET LENGTH = 1222 FT. = 0.231 MILE



SHEEI_NO, ITEM

1	COVER SHEET
2	GENERAL NOTES,
3-5	SUMMARY OF QU
6	SCHEDULES
7	TYPICAL SEC⊺IO
8	PLAN AND PROFI
9	STAGE 1 CONSTR
10	STAGE 2 CONSTR
11	RADIUS GUARDRA
1A-11D	TRAFFIC BARRIE
12	PAVING DETAILS
13-38	STRUCTURE PLAN
39-49	EXISTING STRUC
50-80	STRUCTURE PLAN
01 07	

INDEX OF SHEETS & LIST OF STANDARDS JANTITIES ONS ILE SHEET RUCTION RUCTION AIL & SURVEY MARKER DETAILS ER TERMINAL, TYPE 6 11 NS SN 025-0080 39 CTURE PLANS SN 025-0080 50 NS SN 025-0081 EXISTING STRUCTURE PLANS SN 025-0081 81-93 THE FOLLOWING STANDARDS ARE A PART OF THESE PLANS AND ARE INCLUDED FOLLOWING THE LAST NUMBERED SHEET OF THE PLANS. STANDARD NO, DESCRIPTION BOLS, ABBREVIATIONS AND PATTERNS 00 FORCEMENT BARS INCH AND OF A FOOT NECTOR (HMA) FOR BRIDGE APPROACH SLAB ADJACENT TO FLEXIBLE PAVEMENT OR BRIDGES OWALL FOR PIPE UNDERDRAINS BEAM GUARDRAIL NING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS ER TERMINAL, TYPE 2 JRVEY MARKERS TIONS, 2L, 2W, MORE THAN 15' AWAY TIONS, 2L, 2W, 15' TO 24' FROM PAVEMENT EDGE OFF PERATIONS, 2L, 2W, DAY ONLY 2L, 2W, DAY ONLY, FOR SPEED ≥ 45 MPH 2L, 2W, SHORT TIME OPERATIONS 2L, 2W, MOVING OPERATIONS - DAY ONLY 2L, 2W BRIDGE REPAIR, FOR SPEEDS ≥ 45 MPH LANE 2W, BRIDGE REPAIR WITH BARRIER 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH ROL DEVICES NCRETE BARRIER RMINAL MARKERS MENT MARKINGS 78 CATIONS RAISED REFLECTIVE PAVEMENT MARKERS BARRIER WALL REFLECTOR MOUNTING DETAILS

000001-07	STANDARD SYMB
001001-02	AREAS OF REINF
001006	DECIMAL OF AN
420406	PAVEMENT CONN
182001-02	HMA SHOULDER
515001-03	NAME PLATE FO
601101-02	CONCRETE HEAD
530001-12	STEEL PLATE BE
530301-09	SHOULDER WIDEN
631011-10	TRAFFIC BARRIE
667101-02	PERMANENT SUF
701001-02	OFF-RD OPERAT
701006-05	OFF-RD OPERAT
701011-04	-RD MOVING OPE
701201-05	LANE CLOSURE,
701301-04	LANE CLOSURE,
701311-03	LANE CLOSURE,
701316-12	LANE CLOSURE,
701321-17	CLOSURE, 2L, 2
701326-04	LANE CLOSURE,
701901-08	TRAFFIC CONTRO
704001-08	TEMPORARY CON
725001-01	OBJECT AND TE
780001-05	TYPICAL PAVEME
781001-04	TYPICAL APPLIC
782006	GUARDRAIL AND

USER NAME = biermanbj	DESIGNED -	REVISED -								F.A.P.	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	GENERAL NOTES & INDEX OF SHEETS						328A	(3BR-2,3BR-3)BR	EFFINGHAM	93 2
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION							, i		CONTRAC	T NO. 74859
PLOT DATE = 9/18/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FE	D. AID PROJECT	

GENERAL NOTES

THIS PROJECT IS LOCATED ON FAP ROUTE 328A (US 45) IN EFFINGHAM COUNTY AT SN 025-0080 AND SN 025-0081 WHICH ARE 5 MILES AND 5.3 MILES SOUTH OF IL 37 RESPECTIVELY. THIS WORK CONSISTS OF ONE NEW SUPERSTRUCTURE AND ONE NEW BRIDGE DECK, NEW GUARDRAIL, WIDENING, APPROACHES, RESURFACING, SUBSTRUCTURE REPAIR AND ANY OTHER WORK NECESSARY TO COMPLETE THIS SECTION.

WHEN APPLYING SHORT TERM PAVEMENT MARKINGS, TEMPORARY TAPE SHALL BE USED ON THE SURFACE COURSE AND PAINT SHALL BE USED ON THE MILLED AND BINDER SURFACES.

INSTALLATION AND REMOVAL OF TEMPORARY PAVEMENT MARKINGS SHOWN ON STANDARD 701321 WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE BID PRICE FOR THE TRAFFIC CONTROL STANDARD.

PIPE DRAINS FOUR (4) INCHES SHALL BE ATTACHED TO PIPE UNDERDRAINS FOR STRUCTURES AND SHALL EXTEND TO THE BOTTOM OF THE EMBANKMENT SLOPE AND TERMINATE WITH A CONCRETE HEADWALL.

THE LOCATIONS AND/OR DEPTHS OF UNDERGROUND UTILITIES SHOWN HAVE BEEN TAKEN FROM INFORMATION FURNISHED BY THE UTILITY OWNERS AND MUST BE CONSIDERED APPROXIMATE. FIELD MARKINGS OF FACILITIES IN CRITICAL AREAS MAY BE OBTAINED BY PROVIDING. MINIMUM OF NINETY-SIX (96) HOURS ADVANCE NOTICE THROUGH THE THE J.U.L.I.E. SYSTEM BY CALLING 800-892-0123.

THE RESIDENT ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE CURING TIME FOR HOT-MIX ASPHALT LIFTS.

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE TO THIS PROJECT:

	AC/PG	DESIGN AIR	MIXTURE	FRICTION	QUALITY
APPLICATION		VOIDS	COMPOSITION	AGGREGATE	MANAGEMENT
HMA SURFACE COURSE, MIX "C", N70 (1 1/2")	PG 64-22	4.0% @ N=70	IL - 9 . 5	MIXTURE C	QC/QA
HMA BINDER COURSE, IL-9.5FG, N70, (VARIABLE DEPTH)	PG 64-22	4.0% @ N=70	IL - 9.5FG	N/A	QC/QA
HMA SHOULDER OVERLAY, MIX "C", N70 (2 1/2")	PG 64-22	4.0% @ N=70	IL - 9 . 5	MIXTURE C	QC/QA
HOT-MIX ASPHALT SHOULDERS (8")	PG 64-22	4.0% @ N=70	IL - 19.0	N⁄A	QC/QA

INDEX OF SHEETS

REV. - MS

			20% STATE	CON		¬			20% STATE		TON TYPE CODE
	SUMMARY OF QUANTITIES			0013	STRUCTION TYPE CODE		SUMMARY OF QUANTITIES			0013	ION TYPE CODE
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0015		CODE NO	ІТЕМ	UNIT	TOTAL QUANTITIES	0013	
28100109	STONE RIPRAP, CLASS A5	SQ YD	755	755		50102400	CONCRETE REMOVAL	CU YD	65.1	65.1	
28200200	FILTER FABRIC	SQ YD	755	755		50104720	REMOVAL OF EXISTING CONCRETE DECK	EACH	1	1	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	9	9		50200100	STRUCTURE EXCAVATION	CU YD	304	304	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	241	241		50300100	FLOOR DRAINS	EACH	24	24	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	437	437		50300225	CONCRETE STRUCTURES	CU YD	125.8	125.8	
40600990	TEMPORARY RAMP	SQ YD	726	726		50300255	CONCRETE SUPERSTRUCTURE	CU YD	551.1	551.1	
40602970	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70	TON	154	154		50300260	BRIDGE DECK GROOVING	SQ YD	2223	2223	
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX	TON	439	439		50300300	PROTECTIVE COAT	SQ YD	2729	2729	
	"C", N70										
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH	SQ YD	194	194		50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	244.3	244. 3	
	SLAB					50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1	
44000100	PAVEMENT REMOVAL	SQ YD	427	427		50500505	STUD SHEAR CONNECTORS	EACH	10566	10566	
44004250	PAVED SHOULDER REMOVAL	SQ YD	1404	1404		50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	259470	259470	
48203100	HOT-MIX ASPHALT SHOULDERS	TON	683	683		50800515	BAR SPLICERS	EACH	2050	2050	
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	ЕАСН	1	1		51500100	NAME PLATES	EACH	2	2	

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REV. - MS

	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
DUANTITIES	(3BR-2,3BR-3)BR	EFFINGHAM	93	3					
			CONTRACT	NO. 74	1859				
TS STA. TO STA.	ILLINOIS FED. AID PROJECT								

			80% FED 20% STATE								80% FED 20% STATE		
	SUMMARY OF QUANTITIES				TRUCTION TYPE CODE		SUMMAF	RY OF	QUANTITIES				TRUCTION TYPE CODE
CODE NO		UNIT	TOTAL QUANTITIES	0013		CODE NO		ITEN		UNIT	TOTAL QUANTITIES	0013	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	182	182		66700205	PERMANENT S	URVEY MARKE	ERS, TYPE I	EACH	2	2	
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	30	30		67000400	ENGINEER' S	FIELD OFFI	CE, TYPE A	CAL MO	6	6	
52100510	ANCHOR BOLTS, 3/4"	EACH	48	48		67100100	MOBILIZATIC	N		L SUM	1	1	
52100530	ANCHOR BOLTS, 1 1/4"	EACH	24	24		70100100		ITROL AND PI	ROTECTION, STANDARD	EACH	1	1	
52200010	TEMPORARY SHEET PILING	SQ FT	585	585			701316						
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	257	257		70100450	TRAFFIC CON 701201	ITROL AND PI	ROTECTION, STANDARD	L SUM	1	1	
58700300	CONCRETE SEALER	SQ FT	1361	1361		70100500	TRAFFIC CON	ITROL AND PI	ROTECTION, STANDARD	L SUM	1	1	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	1 30	1 30			701326						
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT	FOOT	353	353		70103815	TRAFFIC CON	ITROL SURVE	ILLANCE	CAL DA	6	6	
	POSTS					70106500	TEMPORARY E	BRIDGE TRAFF	TC SIGNALS	EACH	1	1	
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	4	4		70106700	TEMPORARY F	NUMBLE STRIF	PS	EACH	6	6	
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	8	8		70107005	PAVEMENT MA	RKING BLACI	COUT TAPE, 5"	FOOT	278	278	
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL)	EACH	4	4		70300100	SHORT TERM	PAVEMENT M	ARKING	FOOT	244	244	
63200210			700	70.0		70300150	SHORT TERM	PAVEMENT M	ARKING REMOVAL	SQ FT	41	41	
01200310 	GUARDRAIL REMOVAL	FOOT	786	786		70400100	TEMPORARY C	ONCRETE BAR	RIER	FOOT	888	888	
* SPECI	ALTY ITEM												RE
	USER NAME = steffenmik DESIGNED - DRAWN - <t< td=""><td></td><td>REVISED - REVISED - REVISED -</td><td></td><td>STATE OF</td><td></td><td>TION</td><td></td><td>SUMMARY OF QUAN</td><td>NTITIES</td><td></td><td>F.A. P. RTE. SEC 328A (3BR-2,3)</td><td>TION COUNTY SBR-3)BR EFFINGHAM</td></t<>		REVISED - REVISED - REVISED -		STATE OF		TION		SUMMARY OF QUAN	NTITIES		F.A. P. RTE. SEC 328A (3BR-2,3)	TION COUNTY SBR-3)BR EFFINGHAM

OSER WARE - Sterrennik	DESIGNED			1				
	DRAWN -	REVISED _	STATE OF ILLINOIS	1	SU	JMMARY	' OF QU	A
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	1				
PLOT DATE = 8/28/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	Ī

	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.				
DUANTITIES	328A	(3BR-2,3BR-3)BR	EFFINGHAM	93 (4					
			CONTRACT	NO. 74	1859				
TS STA. TO STA.	ILLINOIS FED. AID PROJECT								

			20% STATE		STRUCTION TYPE CODE	¬			20% STATE	CONSTE	RUCTION TYPE CODE
	SUMMARY OF QUANTITIES			0013		-	SUMMARY OF QUANTITIES	5		0013	
CODE NO	ITEM	UNIT	TOTAL OUANTITIES			CODE NO	ITEM	UNIT	TOTAL OUANTITIES		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	813	813		X7010202	TRAFFIC CONTROL AND PROTECTION, STANDARD	EACH	1	1	
10400200			615	015			701321 (SPECIAL)		1	1	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON-	EACH	2	2							
	REDIRECTIVE), TEST LEVEL 3					x7040125	PINNING TEMPORARY CONCRETE BARRIER	EACH	150	150	
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY	EACH	2	2		Z0001495	BRIDGE APPROACH SHOULDER REMOVAL	SO YD	37	37	
	REDIRECTIVE, NARROW), TEST LEVEL 3					70001899	JACK AND REMOVE EXISTING BEARINGS	EACH	12	12	
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY	EACH	2	2							
	REDIRECTIVE, NARROW), TEST LEVEL 3					Z0007112	CONTAINMENT AND DISPOSAL OF LEAD PAINT	L SUM	1	1	
							CLEANING RESIDUES				
70600350	IMPACT ATTENUATORS, RELOCATE (NON-	EACH	2	2							
	REDIRECTIVE), TEST LEVEL 3					Z0010501	CLEANING AND PAINTING STEEL BRIDGE NO. 1	L SUM	1	1	
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL	TO SO FT	268	268	
							OR LESS THAN 5 INCHES)				
78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	3309	3309							
						Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	2	2	
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	15	15		70046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	466	466	
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16	16					100		
						Z0073200	TEMPORARY SHORING AND CRIBBING	EACH	4	4	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE	SQ YD	1627	1627							
	DEPTH					Ø 20076600	TRAINEES	HOUR	500	500	
x6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	100	100		Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500	
	IALTY ITEM					Ø 0042					
- Jr LCI				Т		, <u>-</u>					F
	USER NAME = steffenmk DESIGNED - DRAWN -		REVISED -		STATE O		SUMMARY OF QU	ANTITIES		F.A. P. SECTI RTE. 328A (3BR-2,3B	ION COUNTY BR-3)BR EFFINGHAM

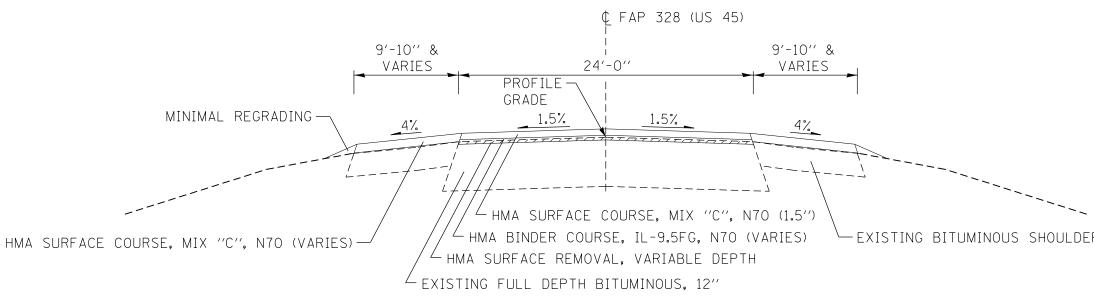
		80% FED 20% STATE			
S				STRUCTION TYPE	CODE
5	UNIT	TOTAL OUANTITIES	0013		
	EACH	1	1		
	EACH	150	150		
	SQ YD	37	37		
	EACH	12	12		
	L SUM	1	1		
	L SUM	1	1		
L TO	SQ FT	268	268		
	EACH	2	2		
	FOOT	466	466		
	EACH	4	4		
	HOUR	500	500		l
		500	500		
	HOUR	500	500		

		STATION TO STATION			LENGTH	WIDTH	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", NTO	HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N70	HOT-MIX ASPHALT SHOULDERS	TEMPORARY RAMP	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	BGGREGATE SURFACE COURSE, TYPE	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	PAVEMENT REMOVAL	PAVED SHOULDER REMOVAL	BRIDGE APPROACH SHOULDER REMOVAL
	630.55	MAINLINE	67.		FEET	FEET	POUND	SQ YD	TON	TON	TON	SQ YD	SQ YD	TON	SQ YD	SQ YD	SQ YD	SQ YD
STA	632+55	TO	STA	633+00	45	24	9.0	-	10.1	4.2	-	26.7	120.0	-	-	-	-	-
STA	633+00	TO	STA	634+59	159	24	31.8	424.0	35.6	48.2	-	44.0	-	-	-	-	-	-
STA	634+59	TO	STA	634+99	40	24	-	-	-	-	-	-	-	-	26.7	106.7	-	-
STA	636+85	TO	STA	637+25	40	24	-	-	-	-	-	-	-	-	26.7	- 106.7	-	-
STA	637+25	TO	STA	639+08	183	24	36.6	488.0	41.0	34.2	-	- 66.7	-	-			-	-
STA	639+08	TO	STA	639+48	40	24	-	-	-	-	-	-	-	-	26.7	106.7	-	-
STA STA	641+24	то то	STA STA	641+64	40	24 24	- 53.6	- 714.7	- 60.0	- 63.7	-	- 53.3	-	-	26.7	- 106.7	-	-
STA	641+64	то	STA	644+32	268 45	24	9.0	-	10.1	4.2	-	26.7	- 120.0		-	-	-	-
STA	044732	SHOULDER	STA	044711	40	24	3.0	_	10.1	4.2	_	20.1	120.0	-	_	_	_	_
LT STA	632+55	TO	LT STA	632+73	18	9.83	1.0	-	2.8	_	_	10.9	19.7	_	-	_	_	_
LT STA	632+73	то	LT STA	633+00	27	9.83	1.5	-	4.1	-	1.4	-	29.5	-	-	-	28.8	-
LT STA	633+00	то	LT STA	634+88	188	9.83	11.7	-	32.7	-	87.3	67.5	-	-	10.9	_	207.0	-
LT STA	636+97	то	LT STA	639+36	239	9.83	15.3	-	42.9	-	137.2	74.2	-	-	21.8	-	268.7	18.6
LT STA	641+36	ТО	LT STA	643+47	211	9.83	13.8	-	38.6	-	111.0	78.0	-	-	10.9	-	216.3	-
LT STA	643+47	ТО	LT STA	644+32	85	9.83	4.6	-	13.0	-	-	-	-	-	-	-	-	-
LT STA	644+32	TO	LT STA	644+77	45	9.83	2.5	-	6.9	-	-	10.9	49.2	-	-	-	-	-
RT STA	632+55	ТО	RT STA	633+00	45	9.83	2.5	-	6.9	-	-	10.9	49.2	-	-	-	-	-
RT STA	633+00	ТО	RT STA	633+03	3	9.83	0.2	-	0.5	-	-	13.7	-	-	-	-	-	-
RT STA	633+03	ТО	RT STA	634+88	185	9.83	12.4	-	34.6	-	110.7	67.6	-	-	10.9	-	213.0	-
RT STA	636+97	ТО	RT STA	639+36	239	9.83	15.3	-	42.9	-	137.2	74.7	-	9.0	21.8	-	268.7	18.6
RT STA	641+36	ТО	RT STA	643+38	202	9.83	12.4	-	34.9	-	97.8	89.1	-	-	10.9	-	201.5	-
RT STA	643+38	ТО	RT STA	644+32	94	9.83	5.1	-	14.4	-	-	-	-	-	-	-	-	-
RT STA	644+32	ΤO	RT STA	644+77	45	9.83	2.5	-	6.9	-	-	10.9	49.2	-	-	-	-	-
				TOTALS:	1628		241	1627	439	154	683	726	437	9	194	427	1404	37

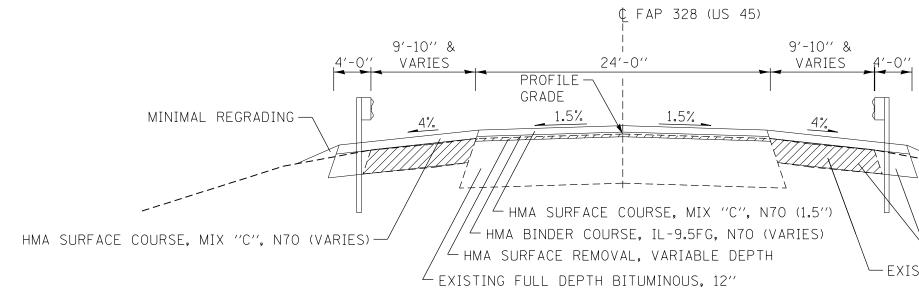
FEET FOOT FOOT EACH FOOT SOT SO			STATION TO STATION			LENGTH	PAVEMENT MARKING BLACKOUT TAPE, 5"	PAINT PAVMENT MARKING - LINE 4"	RAISED REFLECTIVE PAVEMENT MARKER	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL
STA 632+55 TO STA 633+12 57 14.3 128.3 0.7 11.4 1.9 STA 633+12 TO STA 639+18 606 - 1363.5 7.6 121.2 20.2 STA 639+18 TO STA 643+12 394 - 1280.5 4.9 78.8 13.1 STA 643+12 TO STA 644+77 165 206.3 536.3 2.1 33.0 5.5 STA 644+77 TO STA 644+97 20 25.0 - - - -						FEET	FOOT	FOOT	EACH	FOOT	SQ FT
STA 633+12 TO STA 639+18 606 - 1363.5 7.6 121.2 20.2 STA 639+18 TO STA 643+12 394 - 1280.5 4.9 78.8 13.1 STA 643+12 TO STA 644+77 165 206.3 536.3 2.1 33.0 5.5 STA 644+77 TO STA 644+97 20 25.0 - - - -	STA	631+27	ТО	STA	632+55	128	32.0	-	-	-	-
STA 639+18 TO STA 643+12 394 - 1280.5 4.9 78.8 13.1 STA 643+12 TO STA 644+77 165 206.3 536.3 2.1 33.0 5.5 STA 644+77 TO STA 644+97 20 25.0 - - - -	STA	632+55	ΤO	STA	633+12	57	14.3	128.3	0.7	11.4	1.9
STA 643+12 TO STA 644+77 165 206.3 536.3 2.1 33.0 5.5 STA 644+77 TO STA 644+97 20 25.0 - - - - - -	STA	633+12	ТО	STA	639+18	606	-	1363.5	7.6	121.2	20.2
STA 644+77 TO STA 644+97 20 25.0	STA	639+18	ΤO	STA	643+12	394	-	1280.5	4.9	78.8	13.1
	STA	643+12	ТО	STA	644+77	165	206.3	536.3	2.1	33.0	5.5
TOTALS: 1370 278 3309 15 244 41	STA	644+77	TO	STA	644+97	20	25.0	-	-	-	-
					TOTALS:	1370	278	3309	15	244	41

ATIOI	N	SCALE:	s	HEET C)F SHEET	S STA.	то	STA.			ILLINOIS FED		CT NO. 74859
					SCHEDUL	ES			F.A.P. RTE. 328A		CTION ,3BR-3)BR	COUNTY	TOTAL SHE SHEETS NO 1 93 6
					TOTALS:	353	8	4	4	100	786	16	4
RT	STA 6	541+36	ТО	RT STA	642+48	25	1	1	-	-	102	2	1
LT	STA 6	541+36	TO	LT STA	642+86	63	1	1	-	-	102	2	1
RT	STA 6	38+37	ТО	RT STA	639+36	44	1	-	1	25	102	2	-
LT	STA 6	38+25	TO	LT STA	639+36	57	1	-	1	25	102	2	-
RT	STA 6	36+97	ТО	RT STA	637+96	44	1	-	1	25	98	2	-
LT	STA 6	36+97	TO	LT STA	637+83	32	1	-	1	25	76	2	-
RT	STA 6	33+38	ТО	RT STA	634+88	63	1	1	-	-	102	2	1
LT	STA 6	33+76	TO	LT STA	634+88	25	1	1	-	-	102	2	1
						FT	EACH	EACH	EACH	FΤ	FT	EACH	EACH
			STATION TO STATION			STEEL PLATE BEAM GUARD Rail: Type A. 6 Foot Posts	TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL TYPE I, SPECIAL (TANGENT)	TRAFFIC BARRIER TERMINAL, TYPE 2	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	GUARDRAIL REMOVAL	GUARDRAIL REFLECTORS. TYPE A	TERWINAL MARKER - DIRECT APPLIED
4	683	726	437	9	194	427	140	4 3	(
	-	10.9	49.2	-	-	-	-						
	-	-	-	-	-	-	-		-				
	97.8	89.1	-	-	10.9	-	201.	5 -	-				
	137.2	74.7	-	9.0	21.8	-	268.	7 18	.6				
	110.7	67.6	-	-	10.9	-	213.	0 -	-				
	-	13.7	-	-	-	-	-		-				
	-	10.9	49.2	-	-	-	-		-				
	-	10.9	49.2	-	-	-	-		-				
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-	111.0	78.0	-	-	10.9	-	216.	3 -					

USER NAME = steffenmk	DESIGNED -	REVISED -					
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PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION				
PLOT DATE = 8/28/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS



TYPICAL SECTION (AREA OUTSIDE NEW WIDENING)



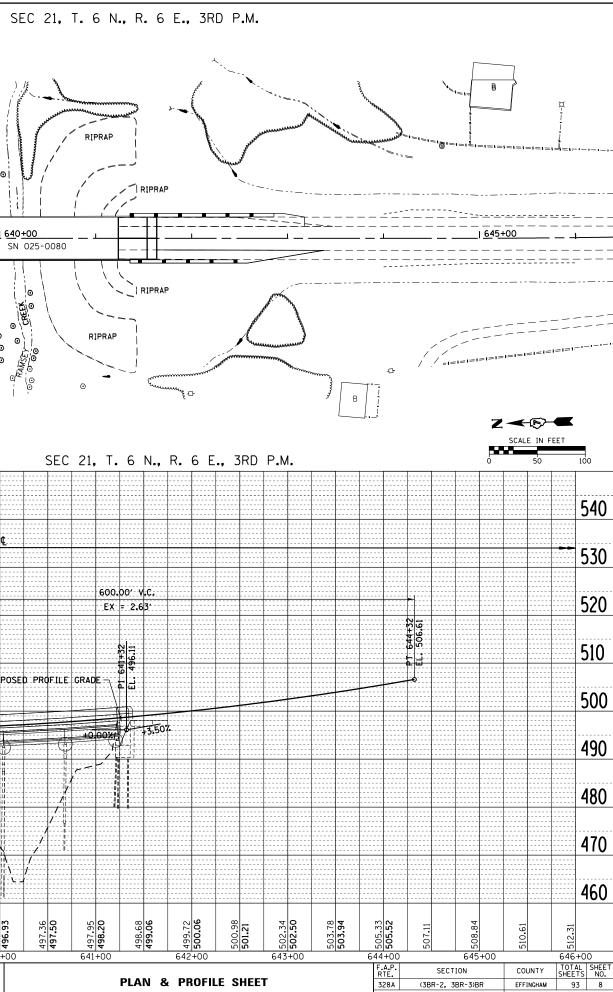
TYPICAL SECTION (NEW WIDENING AREAS)

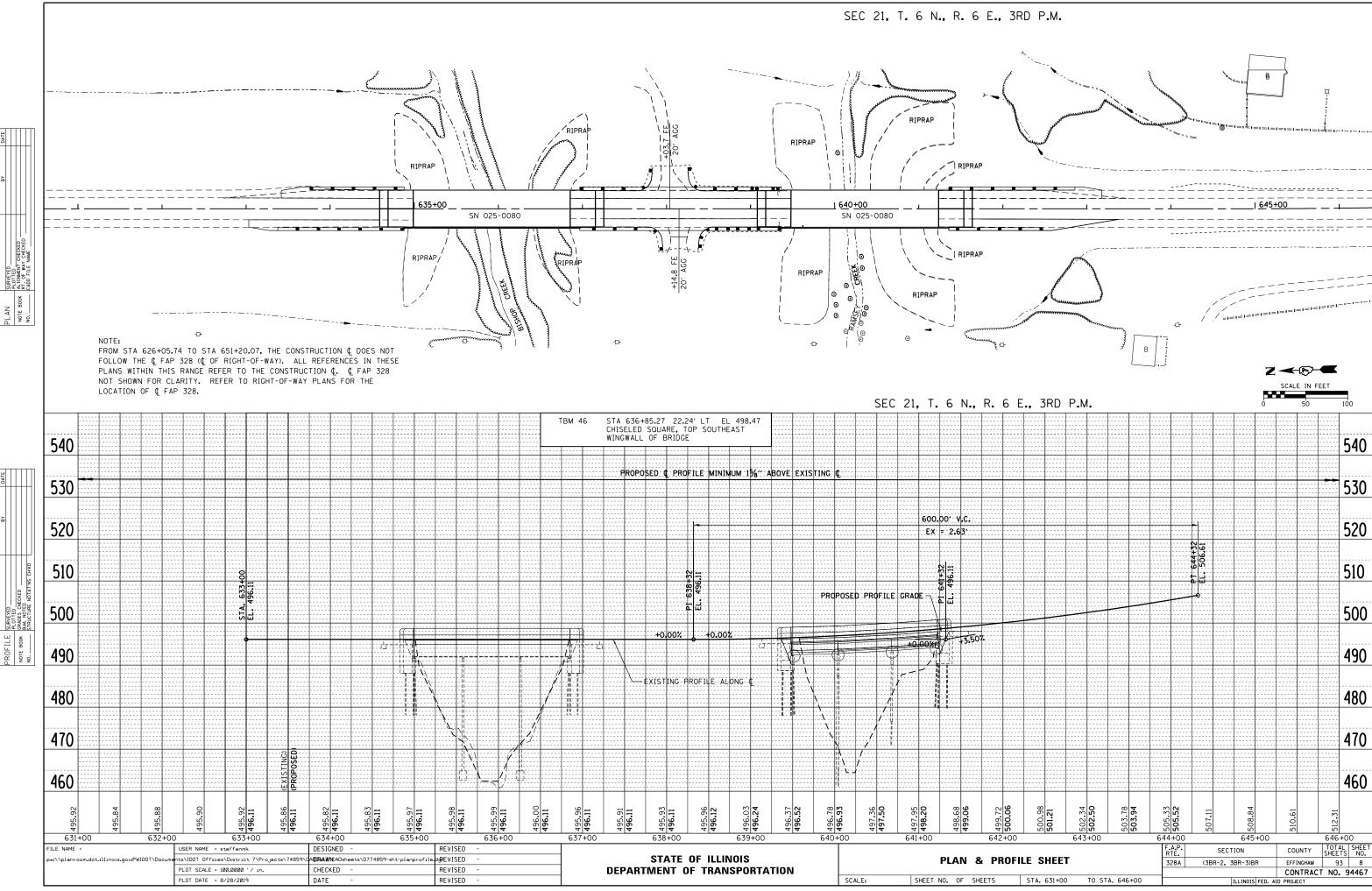
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	DRAWN -	REVISED -	STATE OF ILLINOIS			TYPIC	AL SECT	IONS		328A	(3BR-2,3BR-3)BR	EFFINGHAM	93	7
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRACT	NO. 748	359
PLOT DATE = 8/28/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

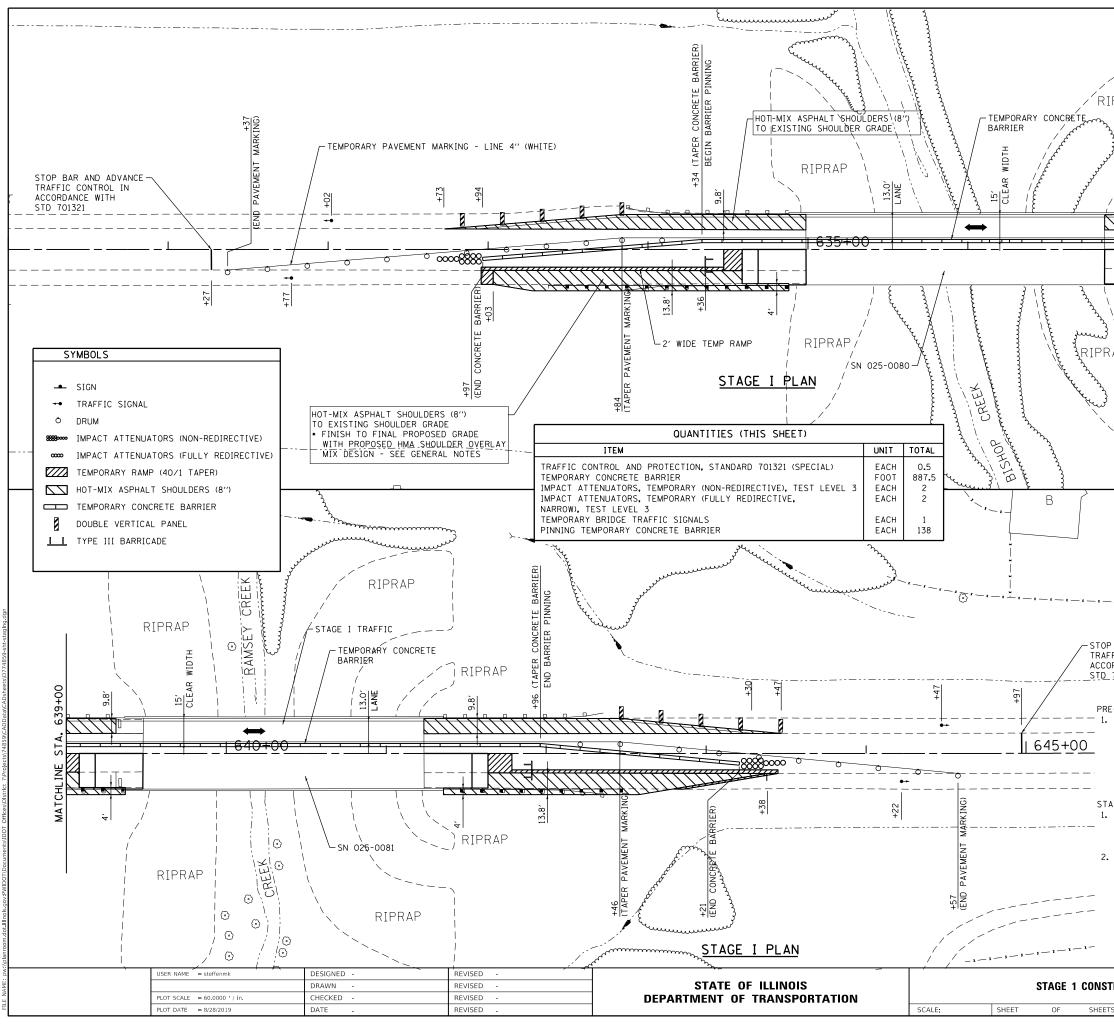
└── EXISTING BITUMINOUS SHOULDER, 8″ MIN

-HMA SHOULDERS (8'')

EXISTING BITUMINOUS SHOULDER, 8" MIN

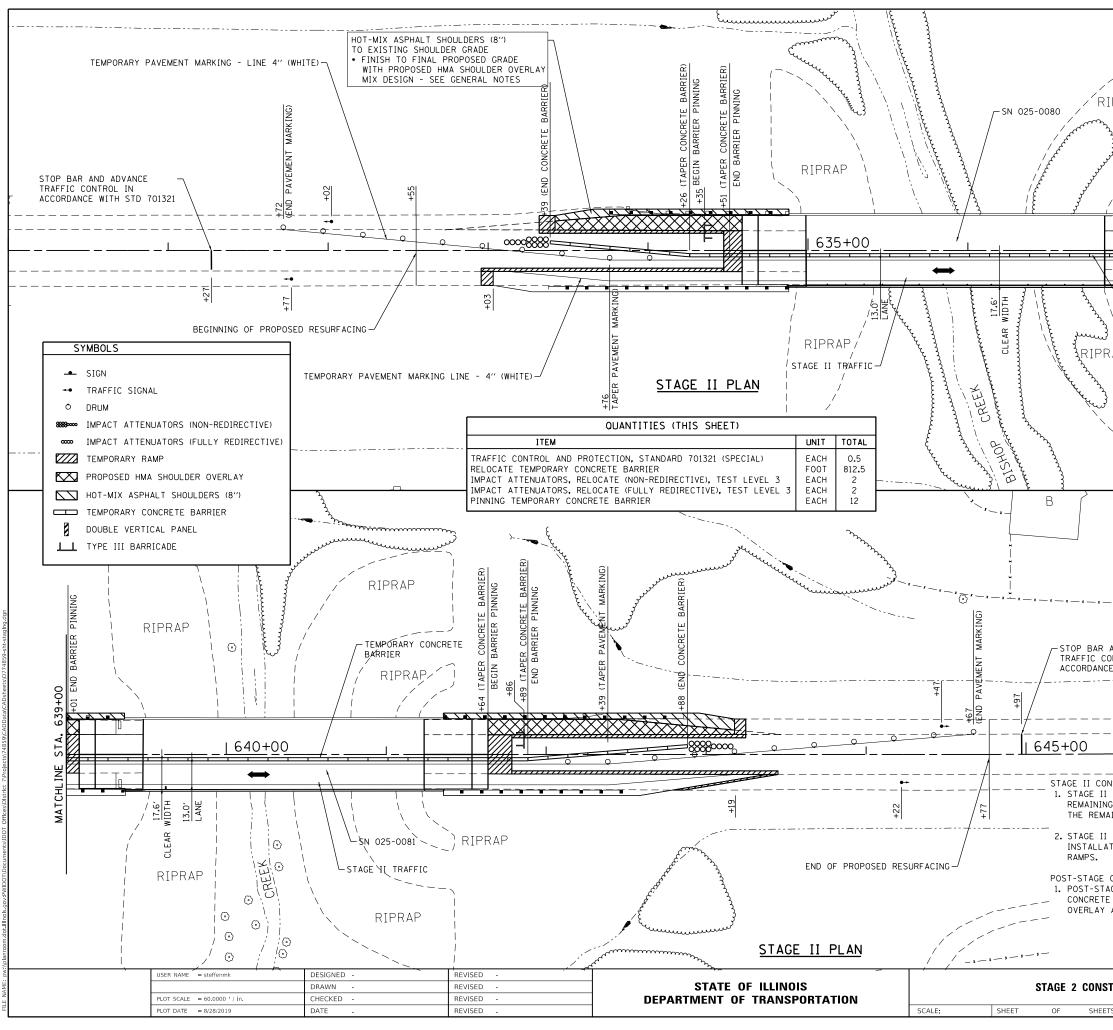




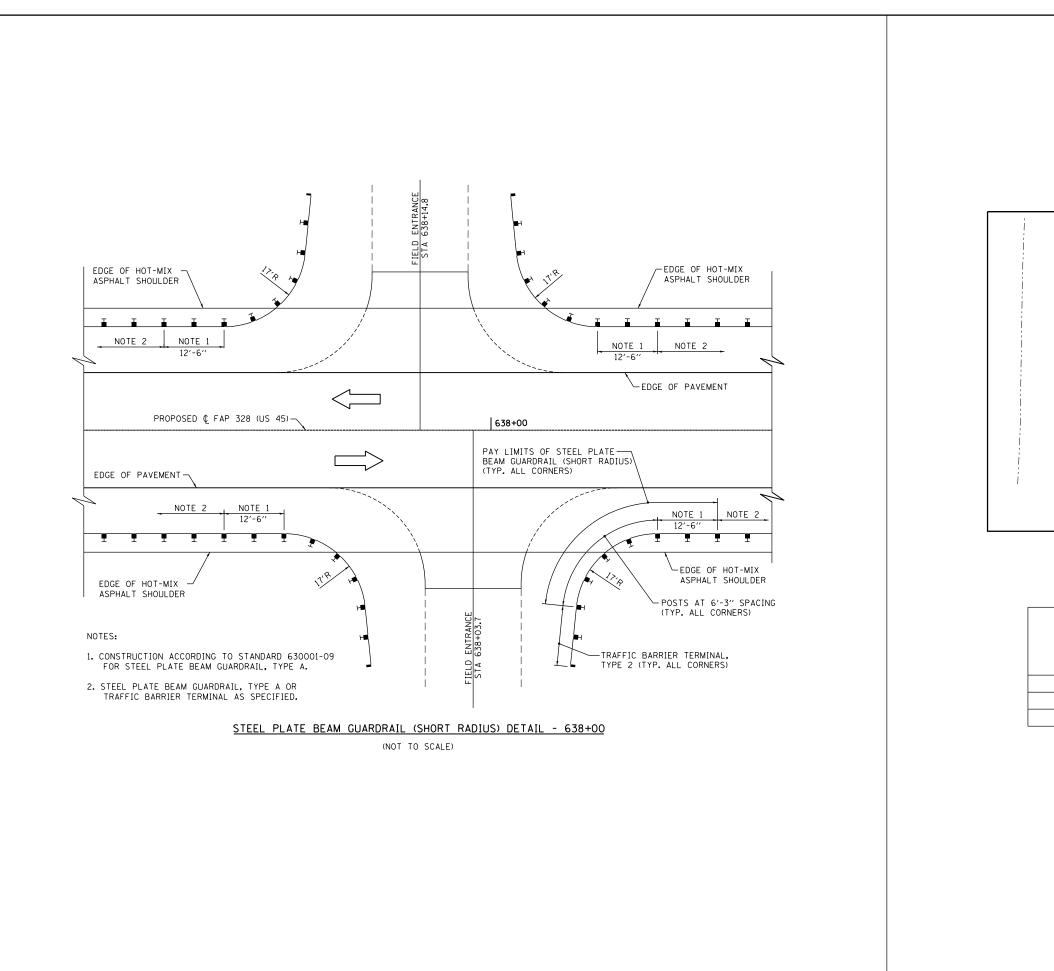


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	1. THIS WORK SHALL SUP TRAFFIC CONTROL STA			NCE WITH	
	2. THE POSTED SPEED LI SHALL BE 40 MPH.	МІТ Т	HROUGH THE CONSTRUCT	ION SITE	
	3. TEMPORARY RUMBLE S	TRIPS	SHALL BE USED.		
		WILL I ED IN	NOT BE PAID FOR SEPAF THE COST OF TRAFFIC	RATELY,	
	5. ACCESS TO ENTRANCES	S SHAL	LL BE MAINTAINED AT A	LL TIMES.	
	6.SIGN AT THE FIELD EN AND 638+14.8 RT SHAL		CES LOCATED AT 638+0 A R10-11b (NO TURN ON		
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PRE-STAG SHOULDER WHERE TH EDGE OF EXISTING TO THE F ACCORDAN AGE I CONS	CONSTRUCTION: E I CONSTRUCTION SHALL AND THE CONSTRUCTION C ERE IS NO EXISTING GUAR PAVEMENT TO THE PROPOSI GUARDRAIL, IT SHALL BE ACE OF THE EXISTING GUA CE WITH TRAFFIC CONTROL STRUCTION:	DF HM DRAIL, ED ED PLACE RDRAI AND	A SHOULDERS (8") ALONG . IT SHALL BE PLACED F GE OF SHOULDER, AND W D FROM THE EXISTING E L. TRAFFIC CONTROL S PROTECTION, STANDARD	G THE NB S FROM THE E VHERE THER EDGE OF PA HALL BE IN 701326.	HOULDER. EXISTING E IS VEMENT
EXISTING SUPERSTR	CONSTRUCTION SHALL INCL DECK FOR SN 025-0080 & UCTURE FOR SN 025-0081.	THE	REMOVAL AND REPLACEN	IENT OF TH	E EXISTING
SHOULDER OF THE S	CONSTRUCTION SHALL INCL , THE REMOVAL OF THE EX B HMA SHOULDERS (8″) AS ROPOSED GUARDRAIL AND 1	ISTIN SHOW	G GUARDRAIL, THE CONS N ON THIS SHEET, THE	TRUCTION INSTALLATI	ON
		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
RUCTION		328A	(3BR-2, 3BR-3)BR	EFFINGHAM	93 9
S STA.	TO STA.		ILLINOIS FED. AID	CONTRACT	NO. 74859

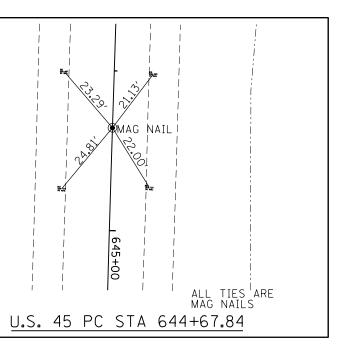
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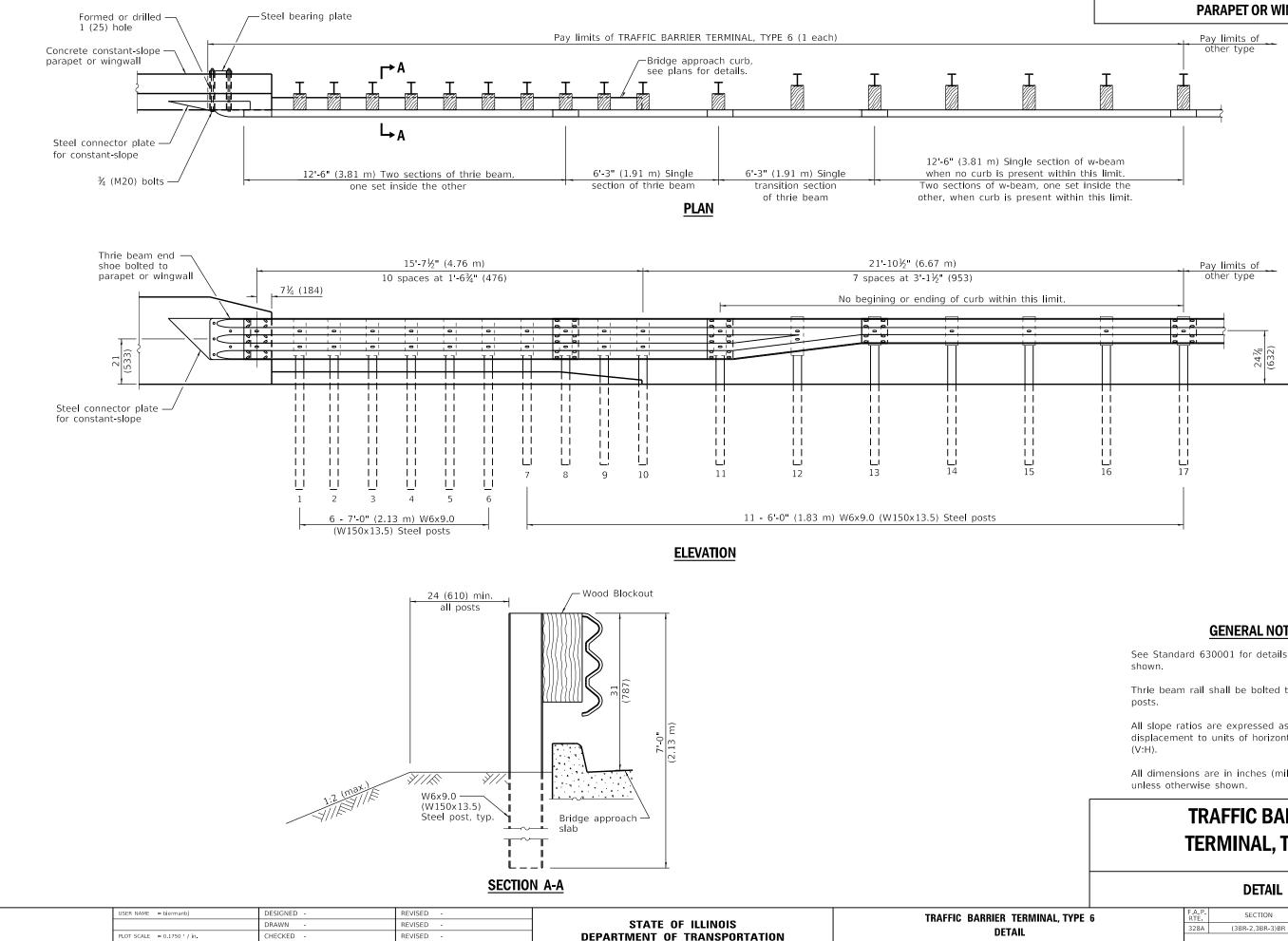
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			GENERAL					
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		HE POSTED SPE HALL BE 40 MF		OUGH THE CONS	FRUCTION SI	TE		
	3. ТЕ	MPORARY RUM	BLE STRIPS SH	HALL BE USED.				
				DES, REFLECTOR F BE PAID FOR		-		
	BL	JT SHALL BE I	NCLUDED IN TI	HE COST OF TRA 01321 (SPECIAL).	AFFIC CONTRO			
	5. AC	CCESS TO ENTR	RANCES SHALL	BE MAINTAINED	AT ALL TIM	ES.		
				S LOCATED AT 6 R10-11b (NO TUI				
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CONSTRUC G, EXISTIN	TION S G DECK		0080 & THE F	AND REPLACEME REMOVAL AND RE 25-0081.		— — OF		
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		. COLD COAND				··		
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AND STRIF		ING UFERALIUN	NJ, FAVEMENI	RESURFACING, H	WA SHUULDEP	`_x-	- *	* _ *]
			F.A.P.			U TO:	TAL	SHEET
TRUCTION			RTE 328A	SECTION (3BR-2, 3BR-3)BR	COUNT EFFINGH	IAM 9	ETS 3	NO. 10
S STA.		TO STA.		ILLINOIS	FED. AID PROJECT	ACT NO	. 748	359



USER NAME = steffenmk	DESIGNED -	REVISED -								F.A.P. BTE	SECTION	COUNTY	TOTAL SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS	RAI	DIUS GU	ARDRAIL	& SURVEY	Y MARKER	DETAILS	328A	(3BR-2, 3BR-3)BR	EFFINGHAM	93 11
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION								(CONTRAC	
PLOT DATE = 8/28/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINOIS FED. A	AID PROJECT	



	PERMANENT
	SURVEY MARKERS,
LOCATION	TYPE I
	EACH
TA 634+00.00	1
STA 644+67.84	1
TOTAL	2



DEPARTMENT OF TRANSPORTATION

DETAIL SCALE: SHEET SHEETS OF

PLOT DATE = 9/18/2019

DATE

REVISED

PARAPET OR WINGWALL

GENERAL NOTES

See Standard 630001 for details of guardrail not

Thrie beam rail shall be bolted to block-out at all

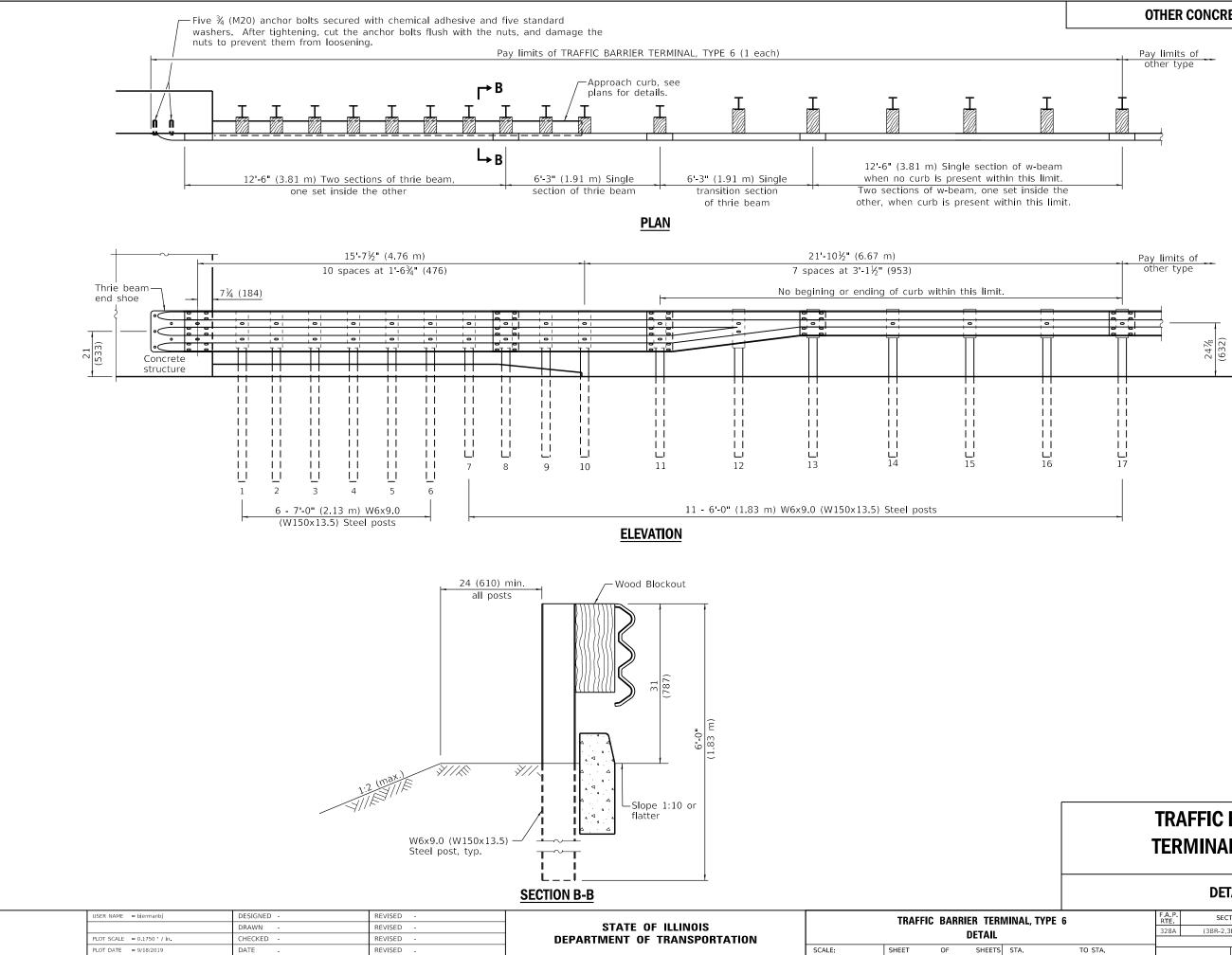
All slope ratios are expressed as units of vertical displacement to units of horizontal displacement

All dimensions are in inches (millimeters)

TRAFFIC BARRIER TERMINAL, TYPE 6

(Sheet 1 of 4)

ł	MINAL, TYPE	6	F.A.P. RTE	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO.
			328A	(3BR-2,3	BR-3)BR		EFFINGHAM	93	11A
_			_				CONTRACT	NO. 74	1859
5	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		



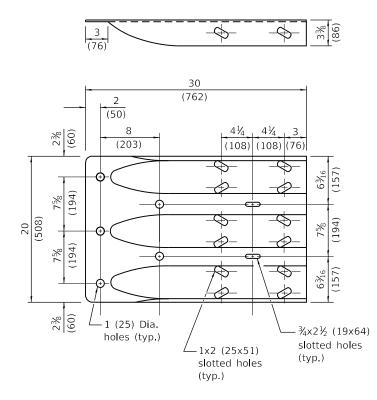
OTHER CONCRETE STRUCTURE

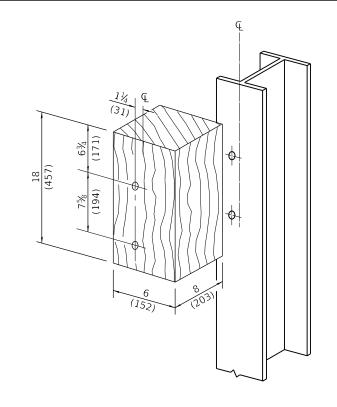
TRAFFIC BARRIER TERMINAL, TYPE 6

(Sheet 2 of 4)

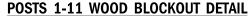
DETAIL

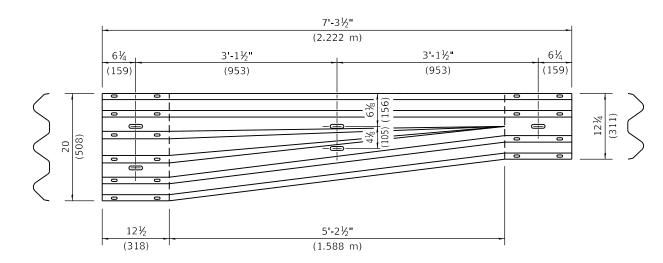
ERM	MINAL, TYPE	6	F.A.P. RTE	SEC	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
			328A	(3BR-2,3	BR-3)BR		EFFINGHAM	93	11B
							CONTRACT	NO. 74	1859
TS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		





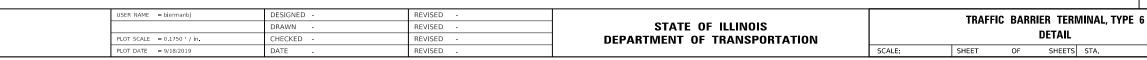
THRIE BEAM END SHOE DETAIL

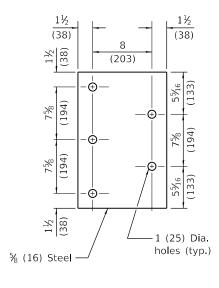




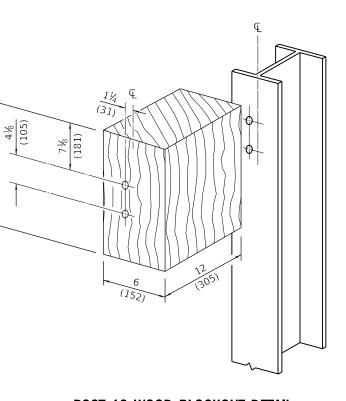
TRANSITION SECTION

(10 gauge (3.4) rail element)





19 (483)



POST 12 WOOD BLOCKOUT DETAIL

(See Standard 630001 for post 13-17 blockouts.)

PARAPET STEEL BEARING PLATE DETAIL

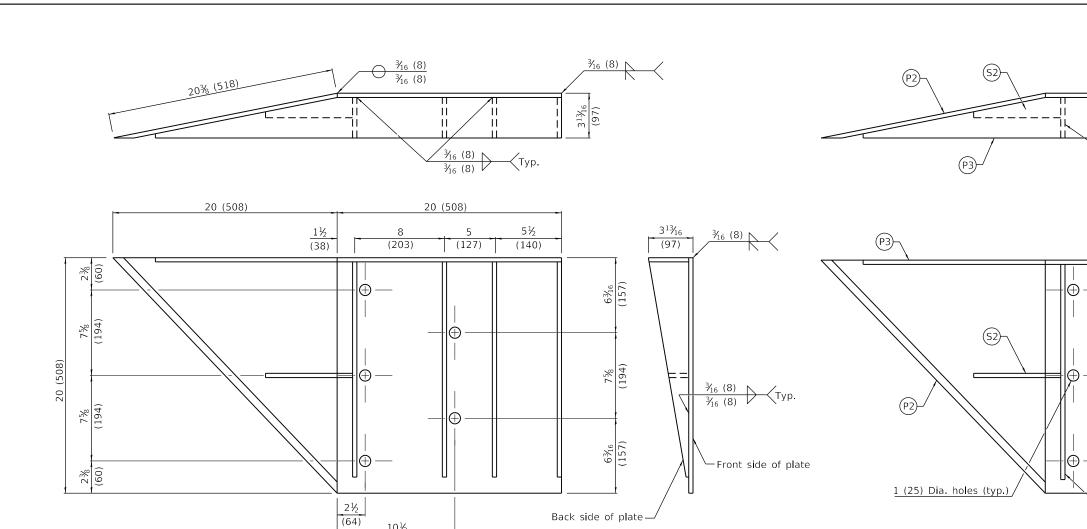
(5 each individual 5x5x⅔ (125x125x16) steel plates with centered 1 (25) holes may be substituted for the plate shown.)

TRAFFIC BARRIER TERMINAL, TYPE 6

(Sheet 3 of 4)

DETAIL

SHEE NO. SECTION A P. RTE COUNTY HEETS (3BR-2,3BR-3)BR EFFINGHAM 93 11C 328A CONTRACT NO. 74859 TO STA. ILLINOIS FED. AID PROJECT



10½ (267)

WELDING INSTRUCTION

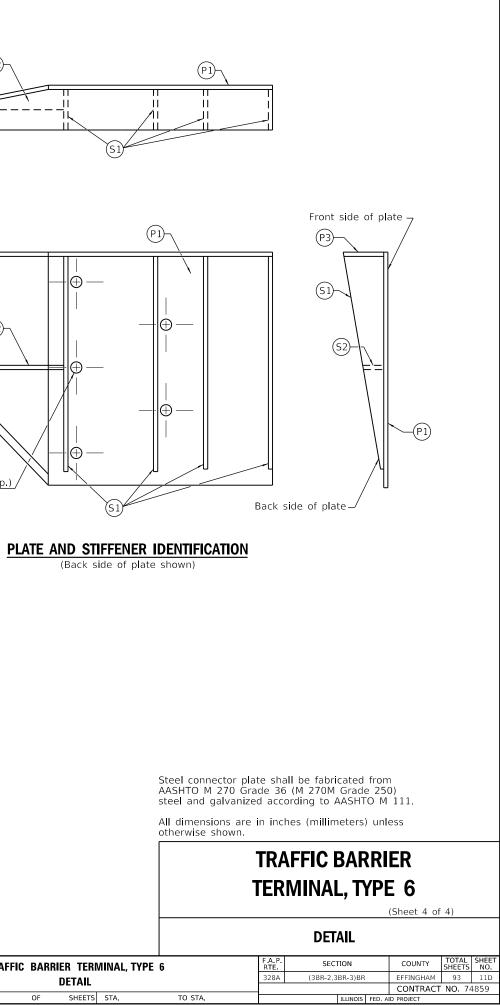
(Back side of plate shown)

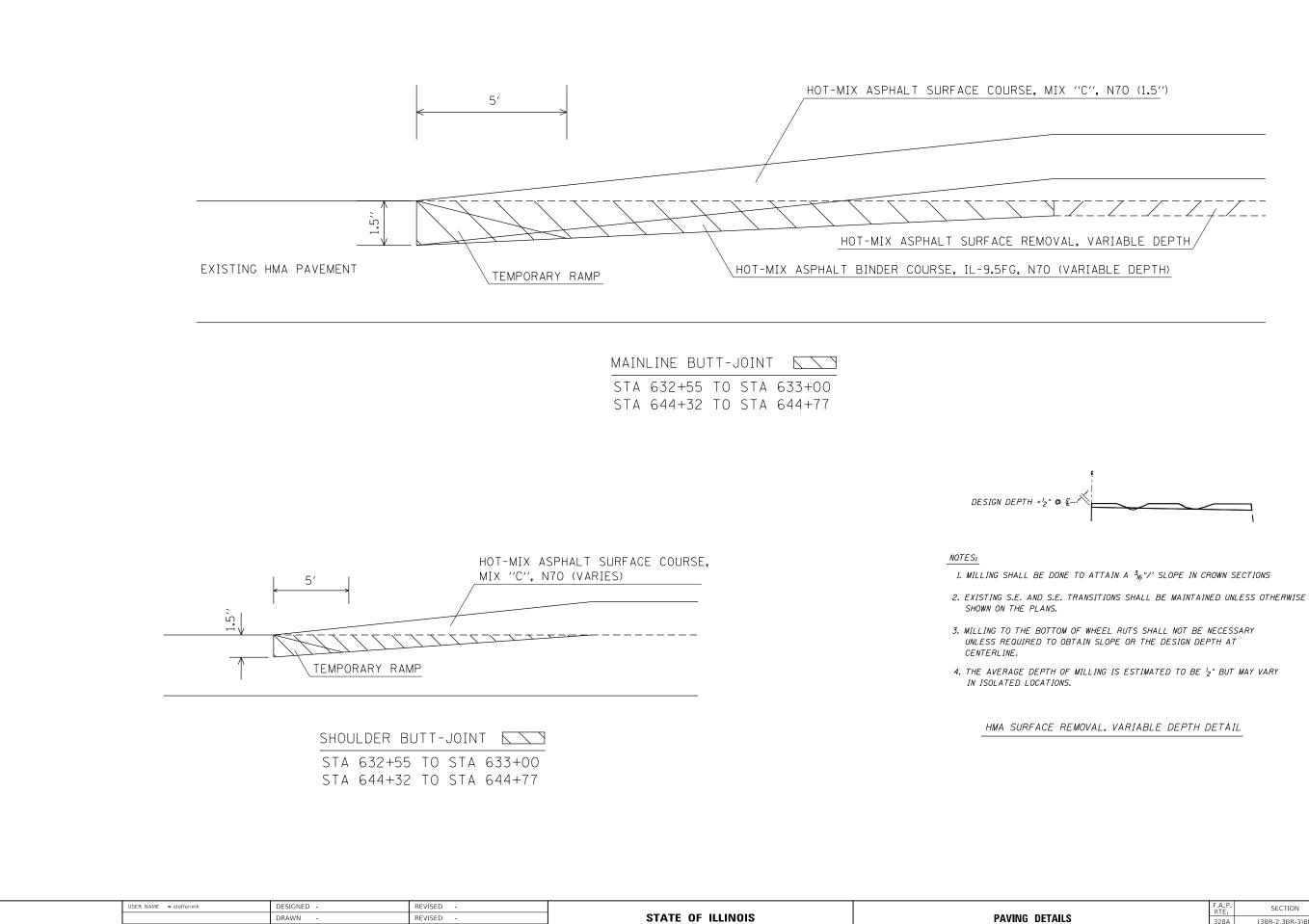
Back side of plate—

			TOR PLATE DIMENSION PER ASSEMBLY)	
PLATE	QUANTITY	SHAPE	SIZE A x B x C x D x E	THICKNESS
Ρ1	1	в	20 x 20 (508 x 508)	³ ∕ ₈ (10)
P2	1	BC	20¾ x 20 x 28¾ ₆ (518 x 508 x 522)	³ ∕ ₈ (10)
Р3	1	B C D E	$36\frac{3}{4} \times 3\frac{7}{16} \times 20 \times 17\frac{1}{16} \times \frac{1}{4}$ (933 × 87 × 508 × 433 × 6)	³ ∕ ₈ (10)
S1	4	B C D	$18\frac{3}{6} \times 3\frac{7}{16} \times 18^{1}\frac{1}{16} \times \frac{1}{4}$ (476 x 87 x 475 x 6)	³ ∕ ₈ (10)
52	1	B C D E	8¼ ₆ x 1 ¹ ¼ ₆ x 15¼ ₆ x 6% x ⅔ (205 x 43 x 33 x 175 x 10)	³ ∕ ₈ (10)

STEEL CONNECTOR PLATE FOR CONSTANT SLOPE

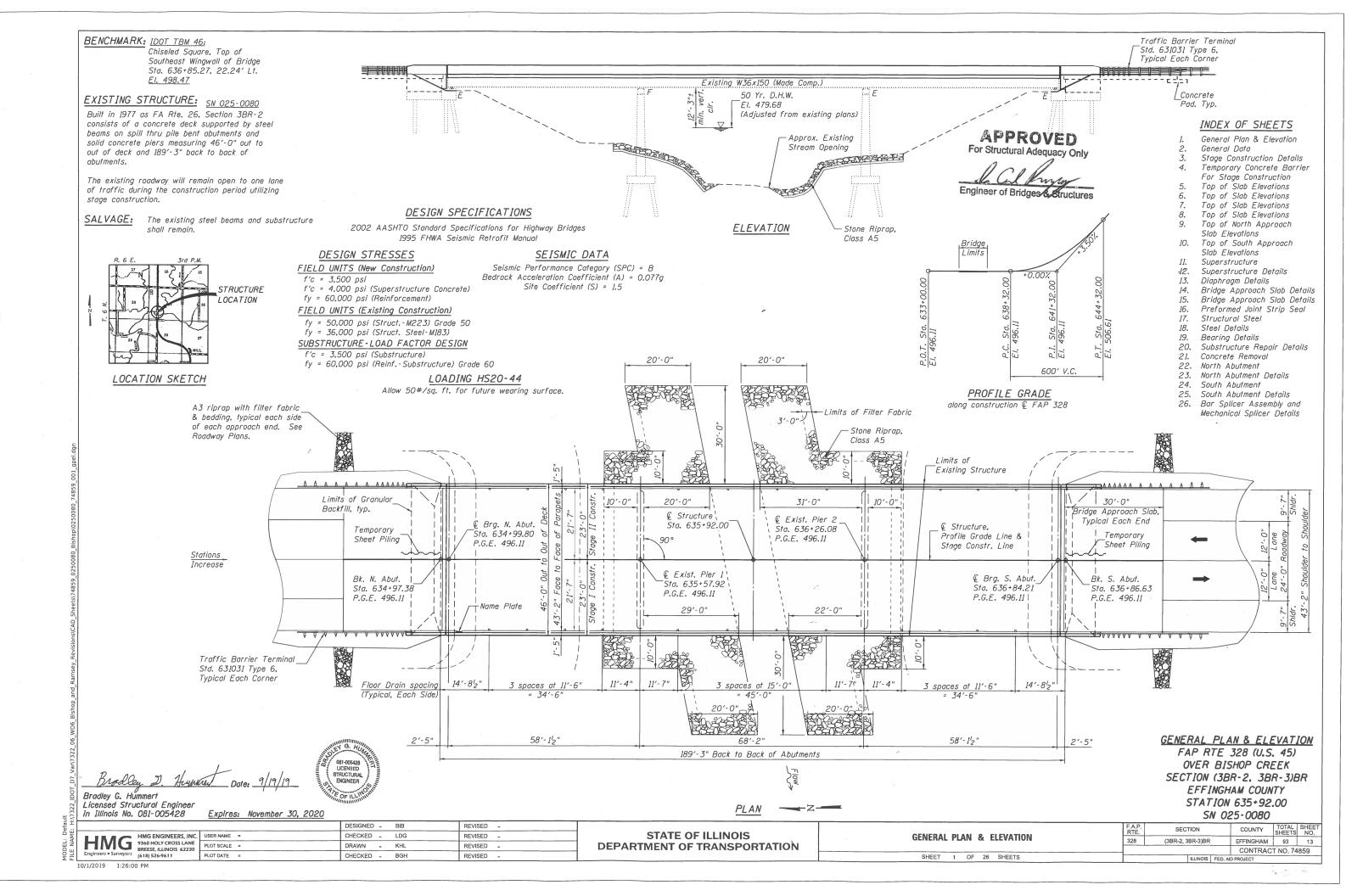
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AME	DRAWN -		REVISED -	STATE OF ILLINOIS	ĺ				
E	PLOT SCALE = 0.1750 ' / in. CHECKED -	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	Ĺ			DETAIL	
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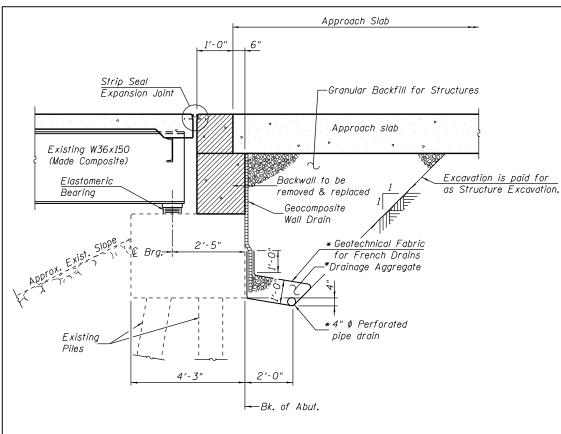




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PLOT DATE = 8/28/2019	DATE -	REVISED -		SCALE:	SHEET	OF	S

F.A.P. SECTION COUNTY TOTAL SHEETS	SHEET NO.
ING DETAILS 328A (3BR-2,3BR-3)BR EFFINGHAM 93	12
CONTRACT NO. 7	4859
SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT	





SECTION THRU PILE SUPPORTED STUB ABUTMENT

(Horiz, dim, @ Rt, L's)

*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

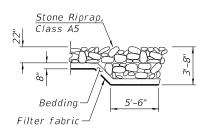
Note:

All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-0" from the end of the wingwalls when the wings are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

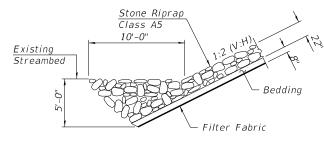
<u>NAME PLATE</u>

See Std. 515001

Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.



RIPRAP FLANK DETAIL



RIPRAP ANCHOR DETAIL

TOTAL BILL OF MATERIAL

ІТЕМ	UNIT	SUPER.	SUB.	TOTAL
Stone Riprap, Class A5	Sq Yd		755	755
Filter Fabric	Sq Yd		755	755
Concrete Removal	Cu Yd	4.6	27.6	32.2
Removal of Existing Concrete Deck	Each	1		1
Structure Excavation	Cu Yd		156	156
Floor Drains	Each	24		24
Concrete Structures	Cu Yd		54.1	54.1
Concrete Superstructure	Cu Yd	283.4		283.4
Bridge Deck Grooving	Sq Yd	1,133		1,133
Protective Coat	Sq Yd	1 , 395		1 , 395
Concrete Superstructure (Approach Slab)	Cu Yd	122.3		122.3
Stud Shear Connectors	Each	5,310		5,310
Reinforcement Bars, Epoxy Coated	Pound	118,520	9,660	128,180
Bar Splicers	Each	807	192	999
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	91		91
Elastomeric Bearing Assembly, Type I	Each	12		12
Anchor Bolts, ³ 4"	Each		24	24
Temporary Sheet Piling	Sq Ft		294	294
Granular Backfill for Structures	Cu Yd		130	130
Concrete Sealer	Sq Ft		393	393
Geocomposite Wall Drain	Sq Yd		65	65
Jack and Remove Existing Bearings	Each	12		12
Containment and Disposal of Lead Paint Cleaning Residues	L. Sum			1
Cleaning and Painting Steel Bridge No. 1	L. Sum	1		1
Structural Repair of Concrete (depth equal to or less than 5 inches)	Sq Ft		164	<i>1</i> 64
Pipe Underdrains for Structures 4"	Foot		230	230
Temporary Shoring and Cribbing	Each		4	4

** Quantity includes top of concrete surface of bridge deck and approach slabs end to end and the top and inside vertical faces of the parapets and curbs.

**

GENERAL NOTES

1.

2.

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8.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

3. 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.

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 '4 inch 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.

4. 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.

Concrete sealer shall be applied to the designated areas of the abutments.

Slipforming of the parapets is not allowed.

7. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All existing steel shall be cleaned per Near White Blast Cleaning-SSPC-SPIO. All existing steel shall be painted according to the requirements of Paint System 1-OZ/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Gray, Munsell No. 5B 7/1.

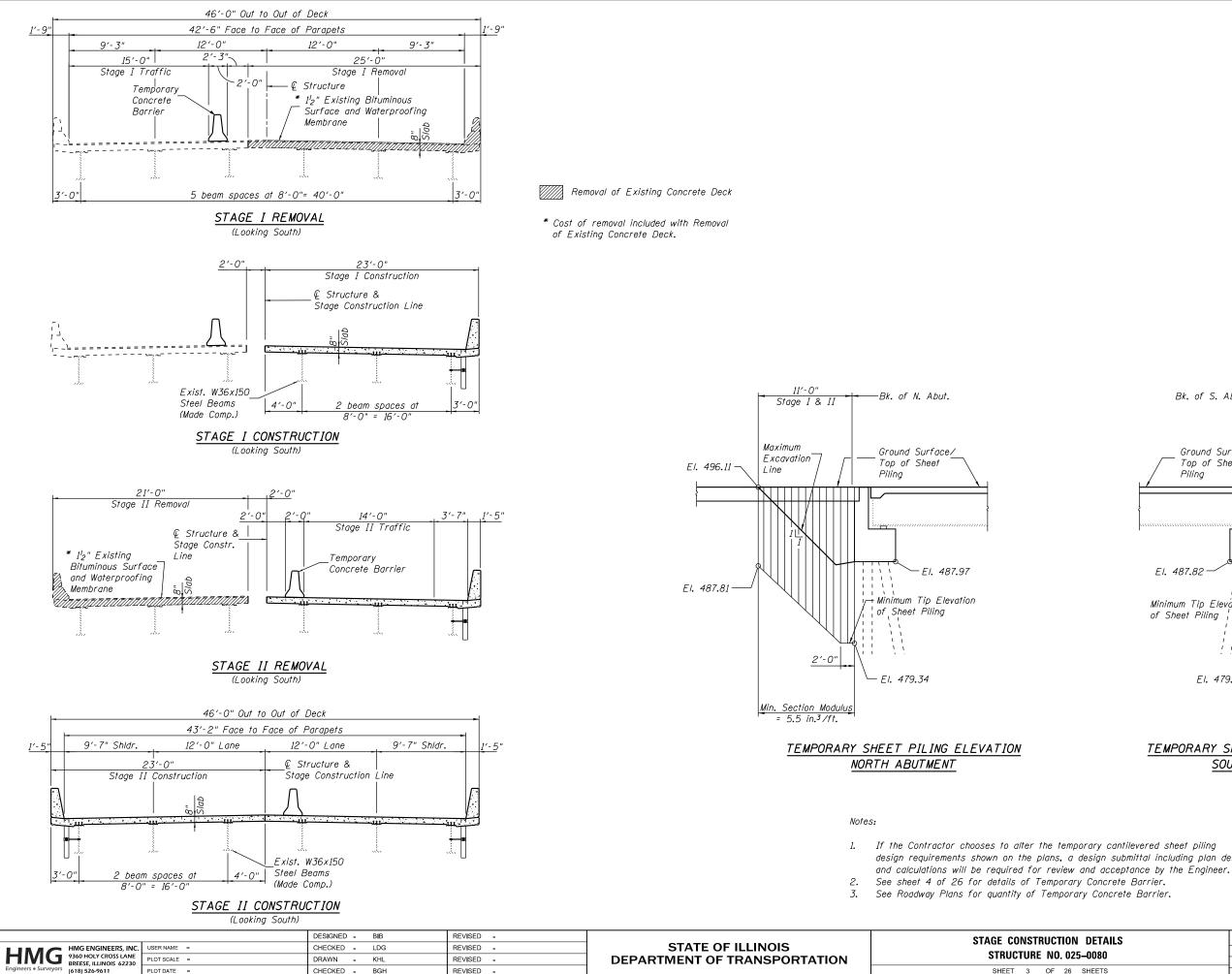
9. A minimum of one air monitor will be required to monitor abrasive blasting operations at this site. See Special Provisions for "Containment and Disposal of Lead Paint Cleaning Residues".

10. The SSPC QP-1 and QP-2 Contractor Certifications are required for this contract.

SCOPE OF WORK

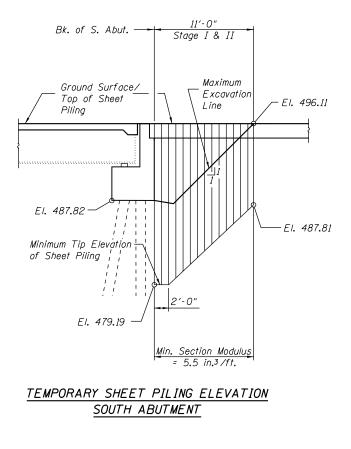
- 1. Remove and replace existing concrete deck.
- 2. Make new deck composite in positive and negative moment regions.
- 3. Remove and replace bearings at the abutments.
- 4. Clean, paint and reuse fixed and expansion bearings at the piers.
- 5. Repair the substructures with Structural Repair of Concrete as shown.
- 6. Remove and replace existing backwalls and wingwalls (saving piling, pile caps and noted reinforcement) to accommodate a new Bridge Approach Slab and barrier configuration.
- 7. Remove existing bridge approach pavement as shown and replace with the new Bridge Approach Slab configuration.
- 8. Clean and paint existing structural steel.

DATA . 025–0080		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		(3BR-2, 3BR-3)BR	EFFINGHAM	93	14
			CONTRACT NO. 74859		
26 SHEETS					



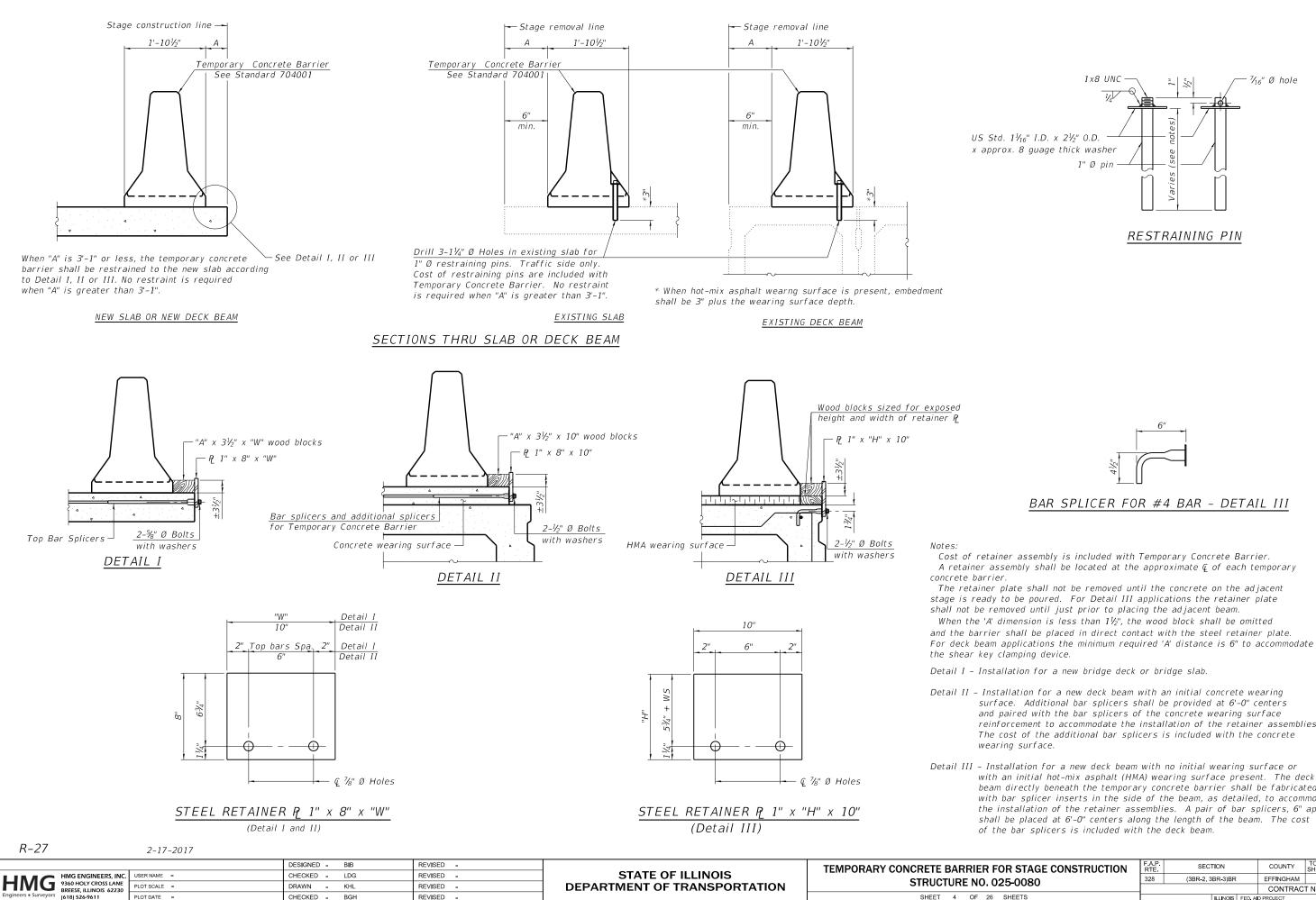
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SHEET 3 OF



design requirements shown on the plans, a design submittal including plan details

ION DETAILS 025–0080		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
		328 (3BR-2, 3BR-3)BR		EFFINGHAM	93	15
				CONTRAC	T NO. 74	859
26 SHEETS	ILLINOIS FED. AID			D PROJECT		

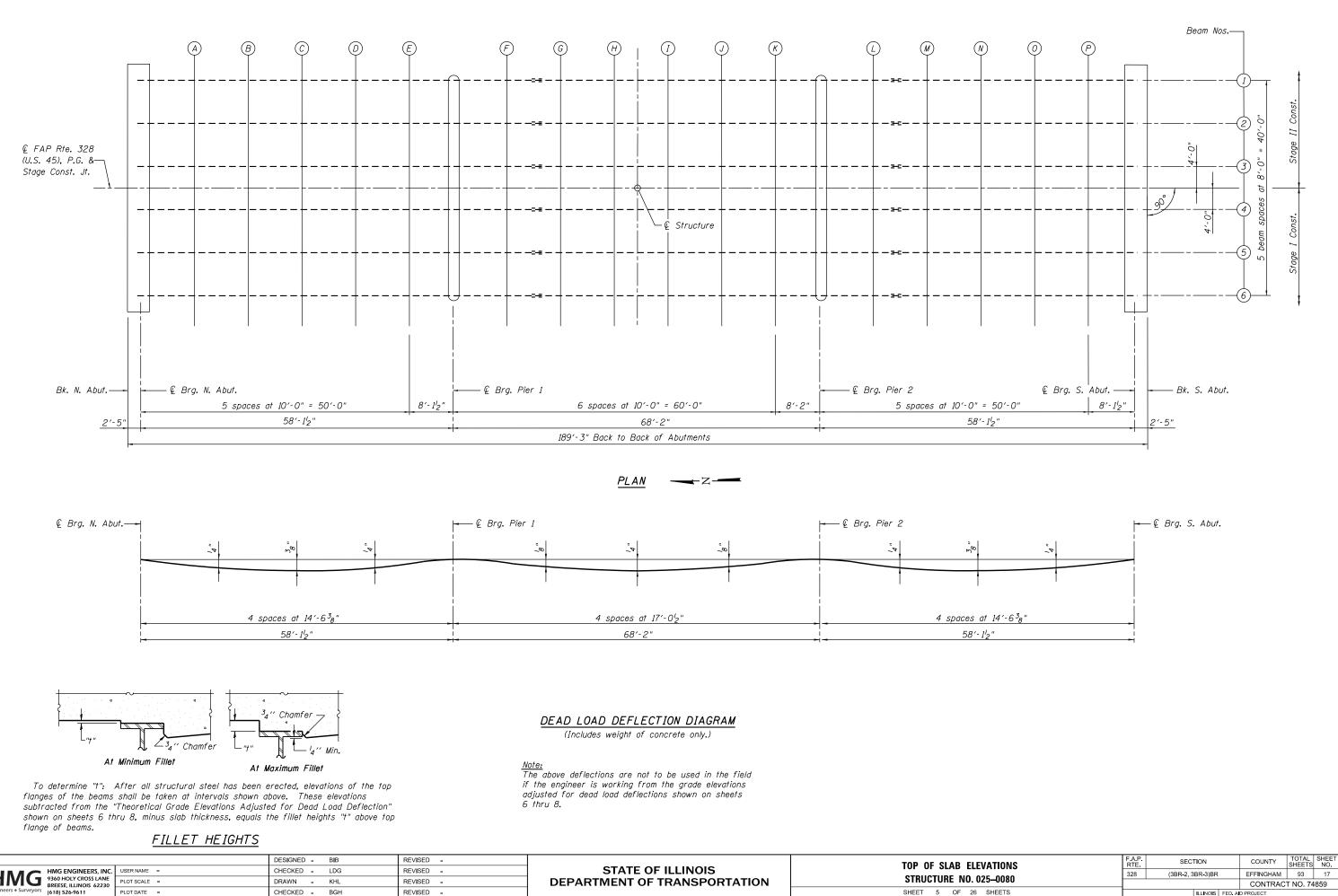


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reinforcement to accommodate the installation of the retainer assemblies.

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,

REFOR STAGE CONSTRUCTION		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		3 (3BR-2, 3BR-3)BR		EFFINGHAM	93	16	
					CONTRACT NO. 74859		
26 SHEETS	ILLINOIS F			FED. A	D PROJECT		



 HMG ENGINEERS, INC.
 USER NAME
 =

 9300 HOLY CROSS LANE
 PLOT SCALE
 =

 PLOT SCALE
 =
 PLOT DATE
 =
 CHECKED - BGH REVISED -SHEET 5 OF 26 SHEETS 10/1/2019 1:32:32 PM

		BEAM	#1	
Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	634+97.38	-20.00	495.76	495.76
∉ Brg. N. Abut.	634+99.80	-20.00	495.76	495.76
A B C D E	635+09.80 635+19.80 635+29.80 635+39.80 635+39.80	-20.00 -20.00 -20.00 -20.00 -20.00	495.76 495.76 495.76 495.76 495.76	495.78 495.79 495.79 495.78 495.76
⊈ Brg. Pier 1	635+57.92	-20.00	495.76	495.76
F G H J K	635+67.92 635+77.92 635+87.92 635+97.92 636+07.92 636+17.92	-20.00 -20.00 -20.00 -20.00 -20.00 -20.00	495.76 495.76 495.76 495.76 495.76 495.76	495.76 495.77 495.78 495.78 495.77 495.76
∉ Brg. Pier 2	636+26.08	-20.00	495.76	495.76
L M N O P	636+36.08 636+46.08 636+56.08 636+66.08 636+76.08	-20.00 -20.00 -20.00 -20.00 -20.00	495.76 495.76 495.76 495.76 495.76	495.76 495.78 495.79 495.79 495.79
∉ Brg. S. Abut.	636+84.21	-20.00	495.76	495.76
Bk. S. Abut.	636+86.63	-20.00	495.76	495.76

		BEAM	#2	
Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	634+97.38	-12.00	495.92	495.92
∉ Brg. N. Abut.	634+99.80	-12.00	495.92	495.92
A B C D E	635+09.80 635+19.80 635+29.80 635+39.80 635+39.80	-12.00 -12.00 -12.00 -12.00 -12.00	495.92 495.92 495.92 495.92 495.92	495.94 495.95 495.95 495.94 495.93
€ Brg. Pier 1	635+57.92	-12.00	495.92	495.92
F G H I J K	635+67.92 635+77.92 635+87.92 635+97.92 636+07.92 636+17.92	- 12.00 - 12.00 - 12.00 - 12.00 - 12.00 - 12.00	495.92 495.92 495.92 495.92 495.92 495.92 495.92	495.93 495.94 495.95 495.95 495.94 495.93
∉ Brg. Pier 2	636+26.08	-12.00	495.92	495.92
L M N O P	636+36.08 636+46.08 636+56.08 636+66.08 636+76.08	-12.00 -12.00 -12.00 -12.00 -12.00	495.92 495.92 495.92 495.92 495.92 495.92	495.93 495.95 495.96 495.95 495.95 495.94
∉ Brg. S. Abut.	636+84.21	-12.00	495.92	495.92
Bk. S. Abut.	636+86.63	-12.00	495.92	495.92

Notes:	
1. Elevations are at Top	of Concrete.
2. See Sheet 5 for elevat	ion locations.

H efau		DESIGNED - BIB	REVISED -		TOP OF SLAB ELEVATIONS	F.A.P. RTF	SECTION	COUNTY TOTAL SHEET
AME		CHECKED - LDG REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 025-0080	328 (3	3BR-2, 3BR-3)BR	EFFINGHAM 93 18	
DDEL N DEL	HMG ENGINEERS, INC. USER NAME = 9360 HOLY CROSS LANE 9360 HOLY CROSS LANE PLOT SCALE =	DRAWN - KHL	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 74859
₽ E L	Engineers • Surveyors (618) 526-9611 PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 6 OF 26 SHEETS		ILLINOIS FED. A	AID PROJECT

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		BEAM	#3	
Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	634+97.38	-4.00	496.05	496.05
€ Brg. N. Abut.	634+99.80	-4.00	496.05	496.05
A B C D E	635+09.80 635+19.80 635+29.80 635+39.80 635+39.80	-4.00 -4.00 -4.00 -4.00 -4.00	496.05 496.05 496.05 496.05 496.05	496.07 496.08 496.08 496.07 496.06
⊈ Brg. Pier 1	635+57.92	-4.00	496.05	496.05
F G H I J K	635+67.92 635+77.92 635+87.92 635+97.92 636+07.92 636+17.92	-4.00 -4.00 -4.00 -4.00 -4.00 -4.00	496.05 496.05 496.05 496.05 496.05 496.05	496.05 496.06 496.07 496.07 496.06 496.05
€ Brg. Pier 2 L	636+26.08 636+36.08	-4.00 -4.00	496.05 496.05	496.05 496.06
M N O P	636+56.08 636+56.08 636+66.08 636+76.08	-4.00 -4.00 -4.00 -4.00	496.05 496.05 496.05 496.05 496.05	496.08 496.07 496.08 496.08 496.06
€ Brg. S. Abut. Bk. S. Abut.	636+84.21 636+86.63	-4.00 -4.00	496.05 496.05	496.05 496.05

Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	634+97.38	0.00	496.11	496.11
∉ Brg. N. Abut.	634+99.80	0.00	496.11	496.11
А	635+09.80	0.00	496.11	496.13
В	635+19.80	0.00	496.11	496.14
С	635+29.80	0.00	496.11	496.14
D	635+39.80	0.00	496.11	496.13
E	635+49.80	0.00	496.11	496.12
© Brg. Pier 1	635+57.92	0.00	496.11	496.11
F	635+67.92	0.00	496.11	496.12
G	635+77.92	0.00	496.11	496.13
Н	635+87.92	0.00	496.11	496.13
Ι	635+97.92	0.00	496.11	496.13
J	636+07.92	0.00	496.11	496.12
К	636+17.92	0.00	496.11	496.11
© Brg. Pier 2	636+26.08	0.00	496.11	496.11
L	636+36.08	0.00	496.11	496.12
M	636+46.08	0.00	496.11	496.13
N	636+56.08	0.00	496.11	496.14
0	636+66.08	0.00	496.11	496.14
Р	636+76.08	0.00	496.11	496.13
∉ Brg. S. Abut.	636+84.21	0.00	496.11	496.11
Bk. S. Abut.	636+86.63	0.00	496.11	496.11

RFAM #4

		BEAM #4				
	Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection	
	Bk. N. Abut.	634+97.38	4.00	496.05	496.05	
	€ Brg. N. Abut.	634+99.80	4.00	496.05	496.05	
	A	635+09.80	4.00	496.05	496.07	
	В	635+19.80	4.00	496.05	496.08	
	С	635+29.80	4.00	496.05	496.08	
	D	635+39.80	4.00	496.05	496.07	
	E	635+49.80	4.00	496.05	496.06	
	∉ Brg. Pier 1	635+57.92	4.00	496.05	496.05	
	F	635+67.92	4.00	496.05	496.05	
	G	635+77.92	4.00	496.05	496.06	
	Н	635+87.92	4.00	496.05	496.07	
	I	635+97.92	4.00	496.05	496.07	
	J	636+07.92	4.00	496.05	496.06	
	ĸ	636+17.92	4.00	496.05	496.05	
	∉ Brg. Pier 2	636+26.08	4.00	496.05	496.05	
	L	636+36.08	4.00	496.05	496.06	
	M	636+46.08	4.00	496.05	496.07	
	N	636+56.08	4.00	496.05	496.08	
	0	636+66.08	4.00	496.05	496.08	
	P	636+76.08	4.00	496.05	496.06	
s are at Top of Concrete.	∉ Brg. S. Abut.	636+84.21	4.00	496.05	496.05	
et 5 for elevation locations.	Bk. S. Abut.	636+86.63	4.00	496.05	496.05	

E: H		DESIGNED - BIB	REVISED -		TOP OF SLAB ELEVATIONS	F.A.P. SECTION COUNTY TOTAL SHEET NO.
AMI		CHECKED - LDG	REVISED -	STATE OF ILLINOIS		328 (3BR-2, 3BR-3)BR EFFINGHAM 93 19
	HMG 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230	DRAWN - KHL	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 025–0080	CONTRACT NO. 74859
MOM	Engineers • Surveyors (618) 526-9611 PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 7 OF 26 SHEETS	ILLINOIS FED. AID PROJECT

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BEAM #5							
Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection			
Bk. N. Abut.	634+97.38	12.00	495.92	495.92			
∉ Brg. N. Abut.	634+99.80	12.00	495.92	495.92			
A B C D E	635+09.80 635+19.80 635+29.80 635+39.80 635+39.80	12.00 12.00 12.00 12.00 12.00	495.92 495.92 495.92 495.92 495.92 495.92	495.94 495.95 495.95 495.94 495.93			
© Brg. Pier 1	635+57.92	12.00	495.92	495.92			
F G H I J K	635+67.92 635+77.92 635+87.92 635+97.92 636+07.92 636+17.92	12.00 12.00 12.00 12.00 12.00 12.00	495.92 495.92 495.92 495.92 495.92 495.92 495.92	495.93 495.94 495.95 495.95 495.95 495.94 495.93			
∉ Brg. Pier 2	636+26.08	12.00	495.92	495.92			
L M N O P	636+36.08 636+46.08 636+56.08 636+66.08 636+76.08	12.00 12.00 12.00 12.00 12.00	495.92 495.92 495.92 495.92 495.92 495.92	495.93 495.95 495.96 495.95 495.95			
∉ Brg. S. Abut.	636+84.21	12.00	495.92	495.92			
Bk. S. Abut.	636+86.63	12.00	495.92	495.92			

		BEAM	#6	
Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	634+97.38	20.00	495.76	495.76
∉ Brg. N. Abut.	634+99.80	20.00	495.76	495.76
A B C D E	635+09.80 635+19.80 635+29.80 635+39.80 635+49.80	20.00 20.00 20.00 20.00 20.00	495.76 495.76 495.76 495.76 495.76	495.78 495.79 495.79 495.78 495.76
⊈ Brg. Pier 1	635+57.92	20.00	495.76	495.76
F G H I J K	635+67.92 635+77.92 635+87.92 635+97.92 636+07.92 636+17.92	20.00 20.00 20.00 20.00 20.00 20.00	495.76 495.76 495.76 495.76 495.76 495.76 495.76	495.76 495.77 495.78 495.78 495.77 495.76
∉ Brg. Pier 2	636+26.08	20.00	495.76	495.76
L M N O P	636+36.08 636+46.08 636+56.08 636+66.08 636+76.08	20.00 20.00 20.00 20.00 20.00	495.76 495.76 495.76 495.76 495.76	495.76 495.78 495.79 495.79 495.77
∉ Brg. S. Abut.	636+84.21	20.00	495.76	495.76
Bk. S. Abut.	636+86.63	20.00	495.76	495.76

<u>Notes:</u> 1. Elevations are at Top of Concrete. 2. See Sheet 5 for elevation locations.

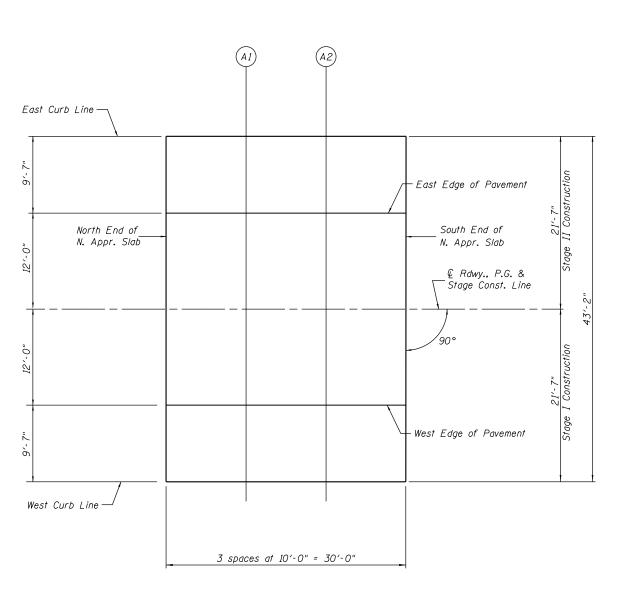
L efau			DESIGNED - BIB	REVISED -		TOP OF SLAB ELEVATIONS	F A P RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.
AME		USER NAME =	CHECKED - LDG	REVISED -	STATE OF ILLINOIS		328	(3BR-2, 3BR-3)BR	EFFINGHAM 93 20
	HMG 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230	PLOT SCALE =	DRAWN - KHL	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 025–0080			CONTRACT NO. 74859
MO MO	Engineers • Surveyors (618) 526-9611	PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 8 OF 26 SHEETS		ILLINOIS FED. 4	AID PROJECT

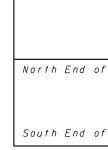
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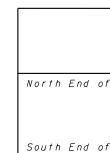
EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
North End of N. Appr. Slab	634+67.88	-21.58	495.72
A1 A2	634+77.88 634+87.88	-21.58 -21.58	495.72 495.72
South End of N. Appr. Slab	634+97.88	-21.58	495.72

EAST EDGE OF PAVEMENT								
Location	Station	Offset	Theoretical Grade Elevations					
North End of N. Appr. Slab	634+67.88	-12.00	495.92					
A1 A2	634+77.88 634+87.88	-12.00 -12.00	495.92 495.92					
South End of N. Appr. Slab	634+97.88	-12.00	495.92					







Í			DESIGNED - BI	3IB	REVISED -		TOP OF NORTH APPROACH S	
ME	HMG ENGINEERS, INC.	USER NAME =	CHECKED - LE	DG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		
Ž	HIVIG 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230	PLOT SCALE =	DRAWN - K	KHL	REVISED -		STRUCTURE NO. 025	
	Engineers • Surveyors (618) 526-9611	PLOT DATE =	CHECKED - BO	3GH	REVISED -		SHEET 9 OF 26	

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MO II

Location	Station	Offset	Theoretical Grade Elevations
North End of N. Appr. Slab	634+67.88	0.00	496.11
A I A2	634+77.88 634+87.88	0.00 0.00	496.11 496.11
South End of N. Appr. Slab	634+97.88	0.00	496.11

€ ROADWAY, P.G. & STAGE CONSTRUCTION LINE

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
f N. Appr. Slab	634+67.88	12.00	495.92
A 1 A2	634+77.88 634+87.88	12.00 12.00	495.92 495.92
f N. Appr. Slab	634+97.88	12.00	495.92

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations		
f N. Appr. Slab	634+67.88	21.58	495.72		
A1 A2	634+77.88 634+87.88	21.58 21.58	495.72 495.72		
f N. Appr. Slab	634+97.88	21.58	495.72		

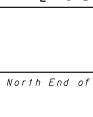
ROACH SLAB ELEVATIONS Re No. 025–0080		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
		328 (3BR-2, 3BR-3)BR			93	21
IE NO: 023-0000				CONTRAC	T NO. 74	859
OF 26 SHEETS		ILLINOIS	D PROJECT			

EAST CURB LINE

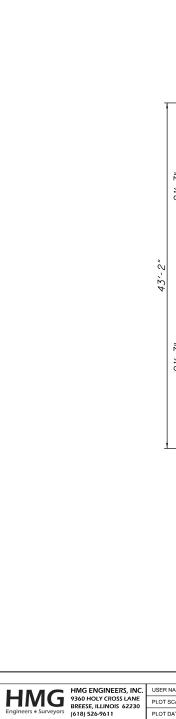
Location	Station	Offset	Theoretical Grade Elevations
North End of S. Appr. Slab	636+86.13	-21.58	495.72
A3 A4	636+96.13 637+06.13	-21.58 -21.58	495.72 495.72
South End of S. Appr. Slab	637+16.13	-21.58	495.72

	EAST	EDGE	0F	PAVEMENT
--	------	------	----	----------

Location	Station	Offset	Theoretical Grade Elevations
North End of S. Appr. Slab	636+86.13	-12.00	495.92
A3 A4	636+96.13 637+06.13	-12.00 -12.00	495.92 495.92
South End of S. Appr. Slab	637+16.13	-12.00	495.92

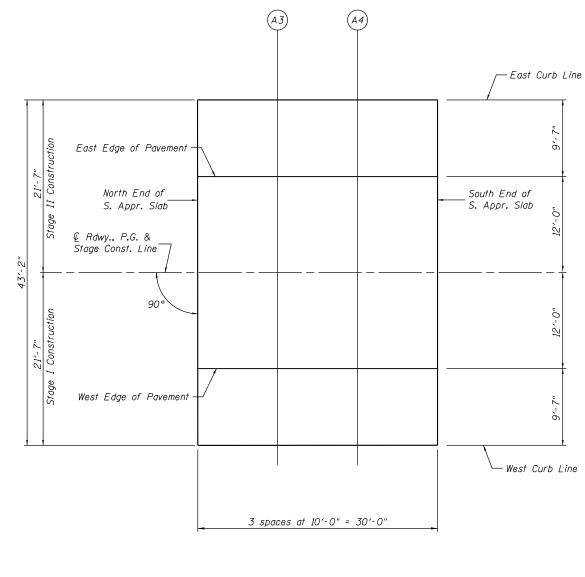


South End of



Var\7						
6						
IDOT						
\7322						
-			DESIGNED - BIB	REVISED -		TOP OF SOUTH APPROACH SI
ME	HMG ENGINEERS, INC.	USER NAME =	CHECKED - LDG	REVISED -	STATE OF ILLINOIS	
ž		DHOLY CROSS LANE PLOT SCALE = DRAWN - H		REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 025
ELE	Engineers • Surveyors (618) 526-9611	PLOT DATE =	CHECKED - BGH REVISED -			SHEET 10 OF 26
1	0/1/2019 1:36:32 PM					

SOUTH APPROACH PLAN



North End of

South End of

North End of

South End of

Location	Station	Offset	Theoretical Grade Elevations
f S. Appr. Slab	636+86.13	0.00	496.11
A3 A4	636+96.13 637+06.13	0.00 0.00	496.11 496.11
f S. Appr. Slab	637+16.13	0.00	496.11

€ ROADWAY, P.G. & STAGE CONSTRUCTION LINE

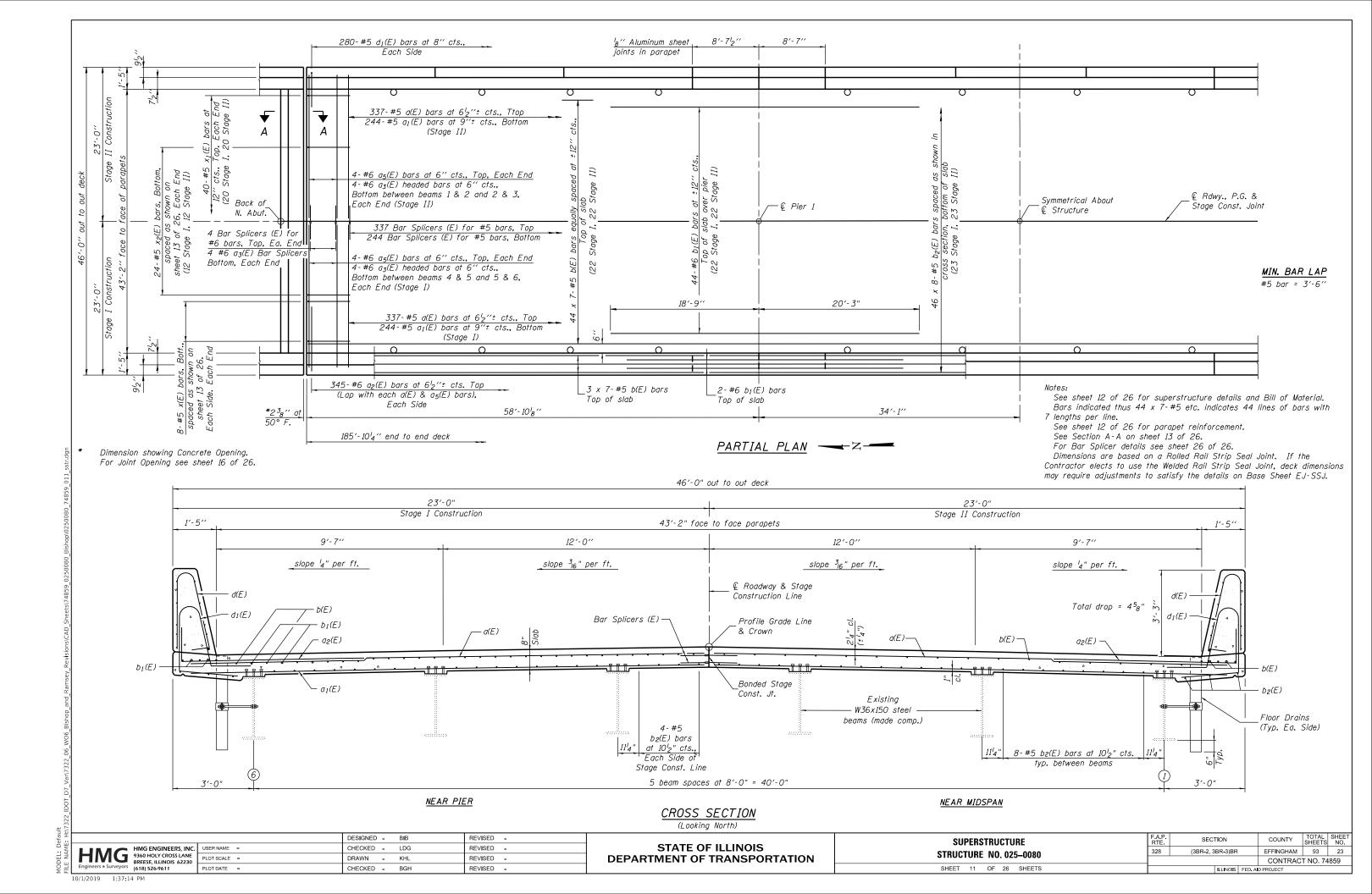
WEST EDGE OF PAVEMENT

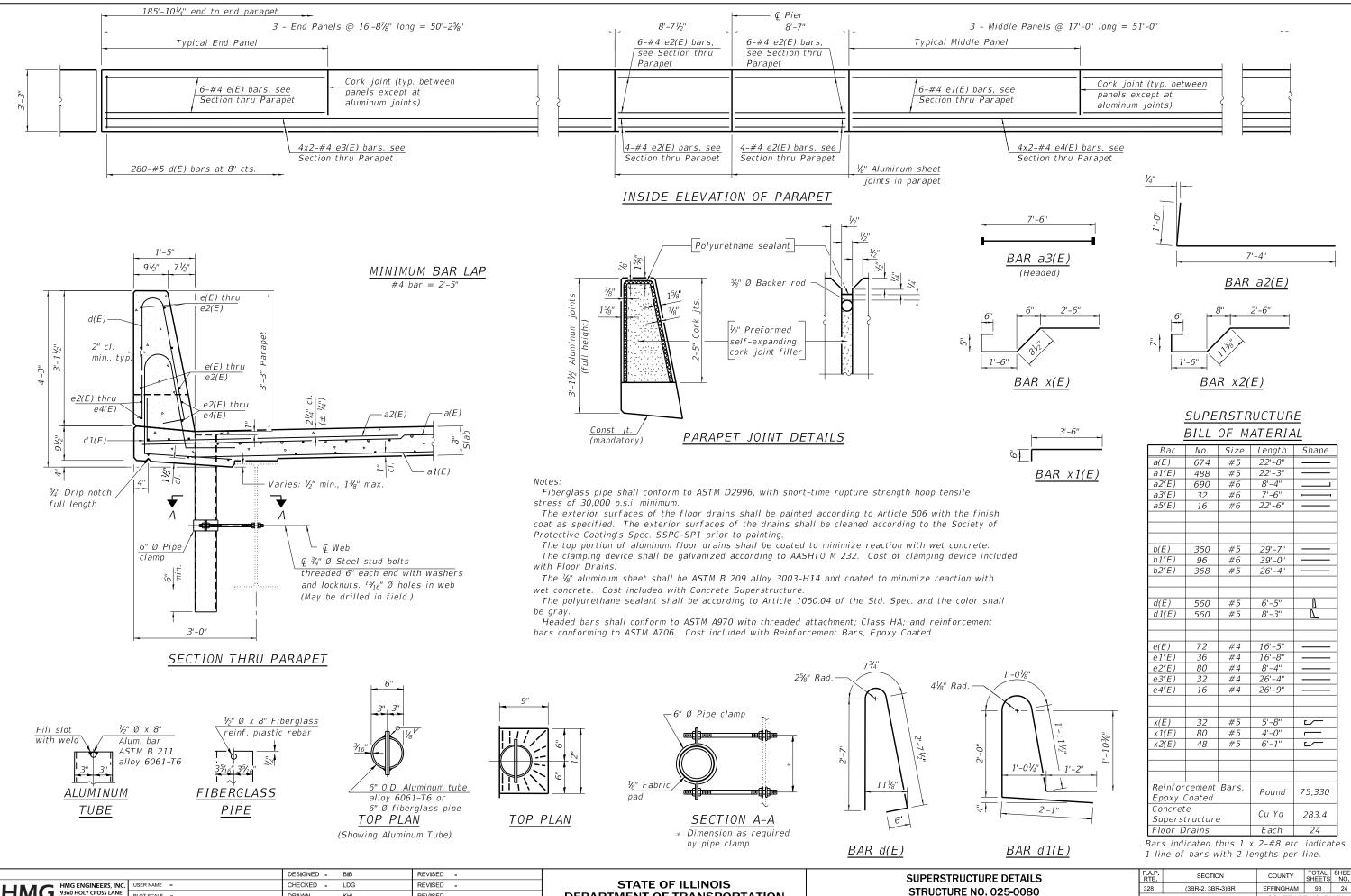
Location	Station	Offset	Theoretical Grade Elevations
f S. Appr. Slab	636+86.13	12.00	495.92
A3 A4	636+96.13 637+06.13	12.00 12.00	495.92 495.92
f S. Appr. Slab	637+16.13	12.00	495.92

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations		
of S. Appr. Slab	636+86.13	21.58	495.72		
A3 A4	636+96.13 637+06.13	21.58 21.58	495.72 495.72		
of S. Appr. Slab	637+16.13	21.58	495.72		

APPROACH SLAB ELEVATIONS		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		(3BR-2, 3	(3BR-2, 3BR-3)BR		EFFINGHAM	93	22
GTORE NO. 025-0080	CONTRACT NO. 1				T NO. 74	859	
T 10 OF 26 SHEETS	ILLINOIS FED. AID PROJECT						
ICTURE NO. 025–0080	RTE. 328	(3BR-2, 3			CONTRAC	93	22

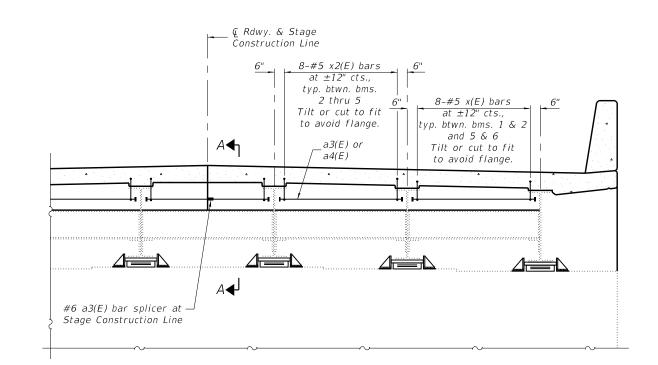




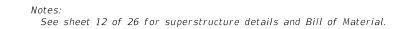
HMG ENGINEERS, INC. USER NAME = 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230 PLOT SCALE = CHECKED - LDG DRAWN - KHL REVISED -**DEPARTMENT OF TRANSPORTATION** PLOT DATE = CHECKED - BGH REVISED veyors (618) 526-9611 10/1/2019 1:38:04 PM

SHEET 12 OF 26 SHEETS

CONTRACT NO. 74859 ILLINOIS FED AID PROJEC

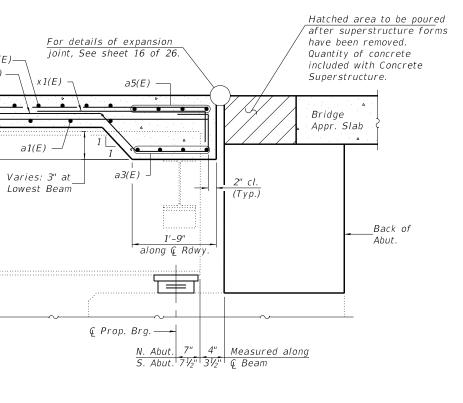


DIAPHRAGM AT ABUTMENT



- L											
			DESIGNED -	BIB	REVISED -		DIAPHRAGM DETAILS		SECTION	COUNTY TOTAL	SHEET
, A	HMG ENGINEERS, INC.	USER NAME =	CHECKED -	LDG	REVISED -	STATE OF ILLINOIS		328	(3BR-2, 3BR-3)BR	EFFINGHAM 93	25
1 S L	HMG ENGINEERS, INC. 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230	PLOT SCALE =	DRAWN -	KHL	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 025-0080		(,,	CONTRACT NO. 7	74859
28		PLOT DATE =	CHECKED -	BGH	REVISED -		SHEET 13 OF 26 SHEETS		ILLINOIS FED.	AID PROJECT	

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SECTION A-A

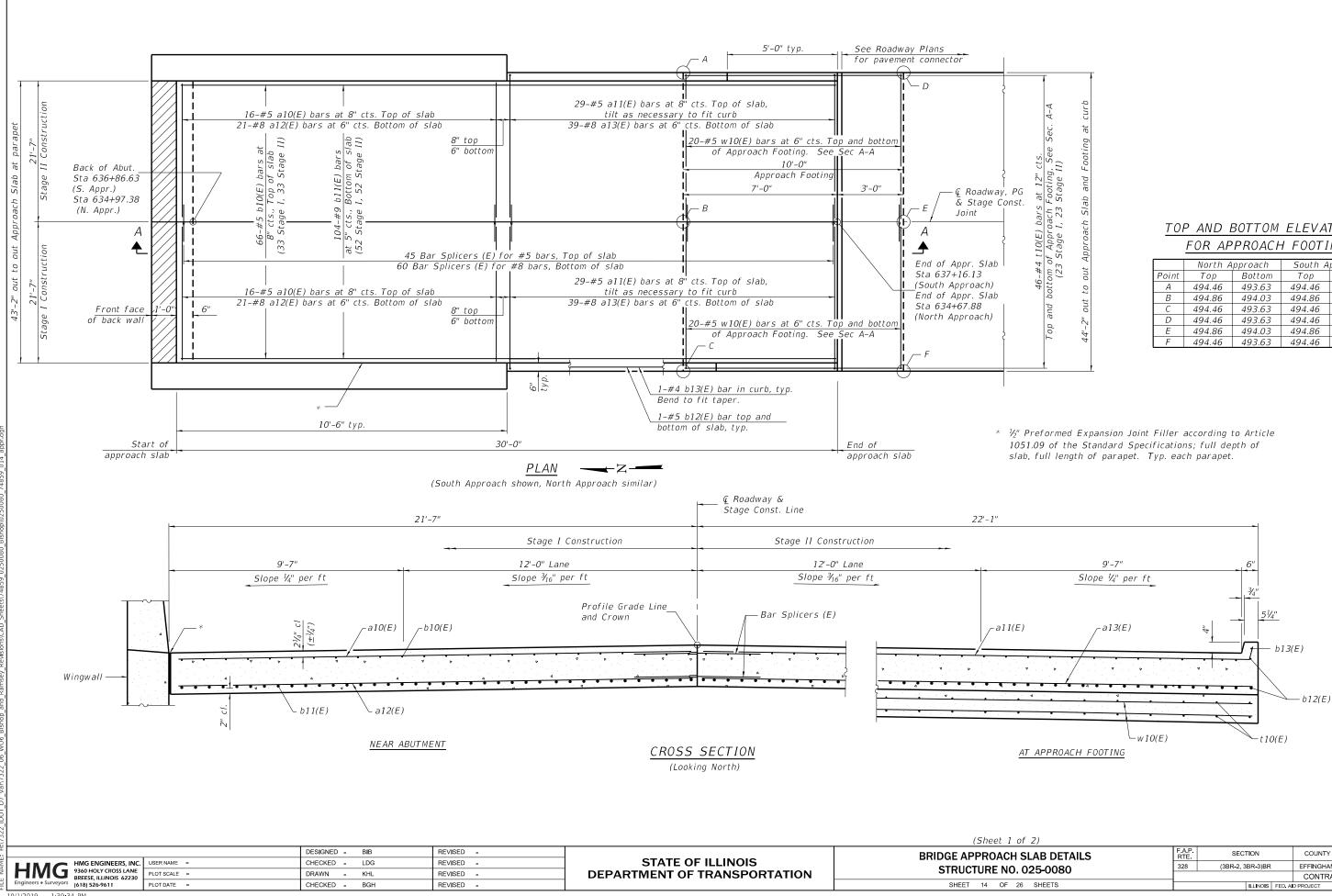
a(E)—

x1(E) -

a1(E) —

x(E) or x2(E) —

Varies

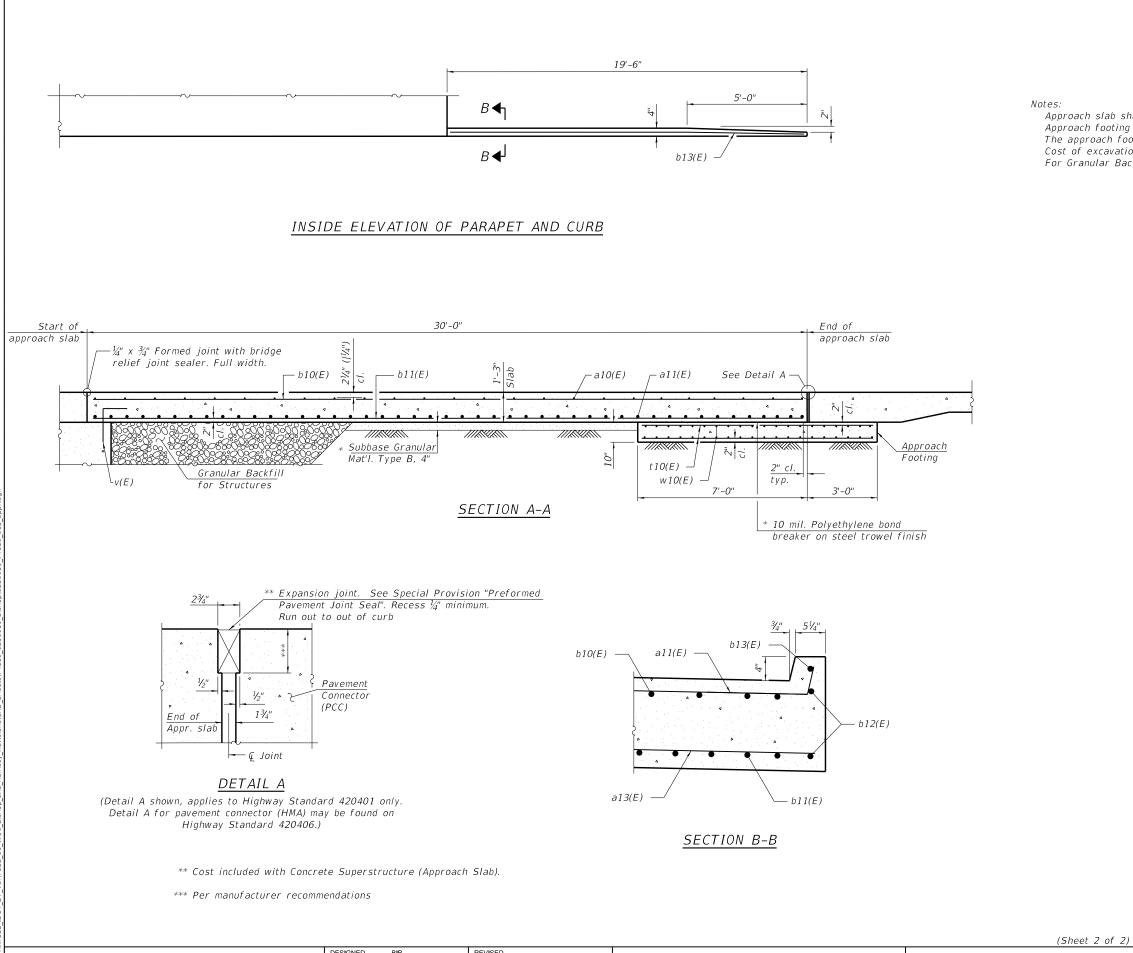


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TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

	North Approach		South Approach			
Point	Тор	Bottom	Тор	Bottom		
А	494.46	493.63	494.46	493.63		
В	494.86	494.03	494.86	494.03		
С	494.46	493.63	494.46	493.63		
D	494.46	493.63	494.46	493.63		
Ε	494.86	494.03	494.86	494.03		
F	494.46	493.63	494.46	493.63		

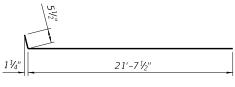
of 2)							
SLAB DETAILS . 025-0080		SEC.	TION		COUNTY	TOTAL SHEETS	SHEET NO.
		(3BR-2, 3	BR-3)BR		EFFINGHAM	93	26
. 023-0080					CONTRAC	T NO. 74	859
26 SHEETS			ILLINOIS	FED. A	D PROJECT		



= = E						(Sheet 2 of 2)				
E efar		-	DESIGNED - BIB	REVISED -		BRIDGE APPROACH SLAB DETAILS	F.A.P. SE	ECTION	COUNTY TO	OTAL SHEET
C ₩	HMG ENGINEERS, INC.	USER NAME =	CHECKED - LDG	REVISED -	STATE OF ILLINOIS		328 (3BR-2	2, 3BR-3)BR	EFFINGHAM	93 27
DEL UN	HMG ENGINEERS, INC. 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230	PLOT SCALE =	DRAWN - KHL	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 025-0080			CONTRACT N	NO. 74859
MON	Engineers • Surveyors (618) 526-9611	PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 15 OF 26 SHEETS		ILLINOIS FED. AIC	D PROJECT	

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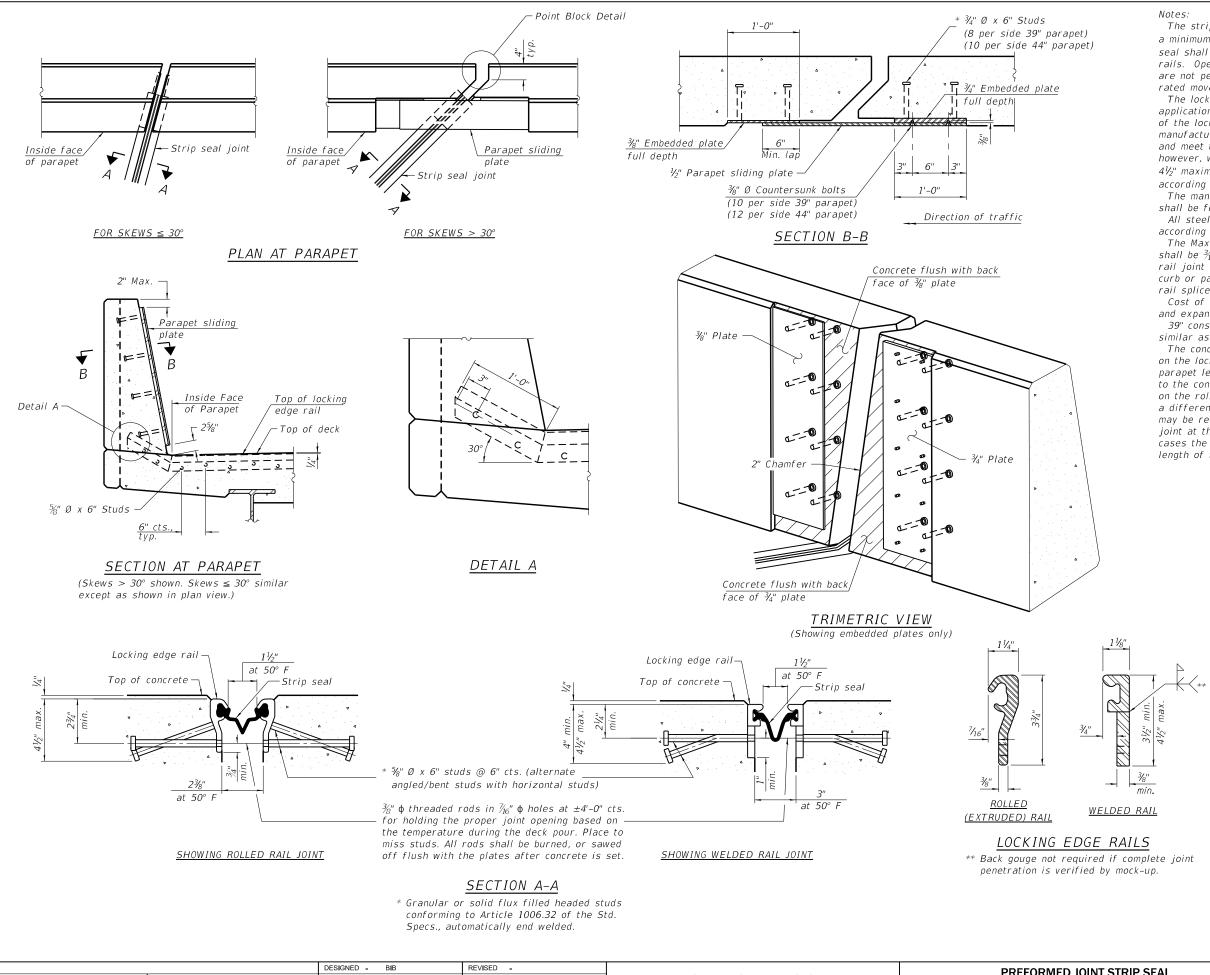
Approach slab shall be paid for as Concrete Superstructure (Approach Slab). Approach footing concrete shall be paid for as Concrete Structures. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf. Cost of excavation for approach footing included with Concrete Structures. For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 26.



BAR all(E)

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape				
a10(E)	64	#5	21'-3''					
a11(E)	116	#5	22'-1"					
a12(E)	84	#8	21'-3"					
a13(E)	156	#8	21'-9"					
b10(E)	132	#5	29'-8''					
b11(E)	208	#9	29'-8''					
b12(E)	8	#5	19'-2"					
b13(E)	4	#4	19'-2"					
t10(E)	184	#4	9'-8''					
w10(E)	160	#5	21'-9"					
Concrete	Superst	Cu Yd	122.3					
(Approac	h Slab)	curu	122.5					
Concrete	Structu	res	Cu Yd	27.3				
Reinforce	ement Ba	Downd 40.01						
Ероху Со	oated	Pound	48,010					



й 	I		BIB	REVISED -		PREFORMED JOINT STRIP SEAL	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HMG ENGINEERS, INC. 9360 HOLY CROSS LANE BREESE ILLINOIS 62230	USER NAME =	CHECKED - L	LDG	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 025-0080	328	(3BR-2, 3BR-3)BR	EFFINGHAM	93	28
	PLOT SCALE =	DRAWN -	KHL	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 023-0080			CONTRAC	T NO. 74	859
Engineers • Surveyors (618) 526-9611	PLOT DATE =	CHECKED - E	BGH	REVISED -		SHEET 16 OF 26 SHEETS		ILLINOIS FE	D. AID PROJECT		
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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 $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

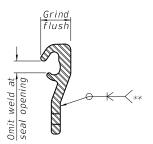
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " 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, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal. 39" constant slope barrier shown, 44" constant slope barrier

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.

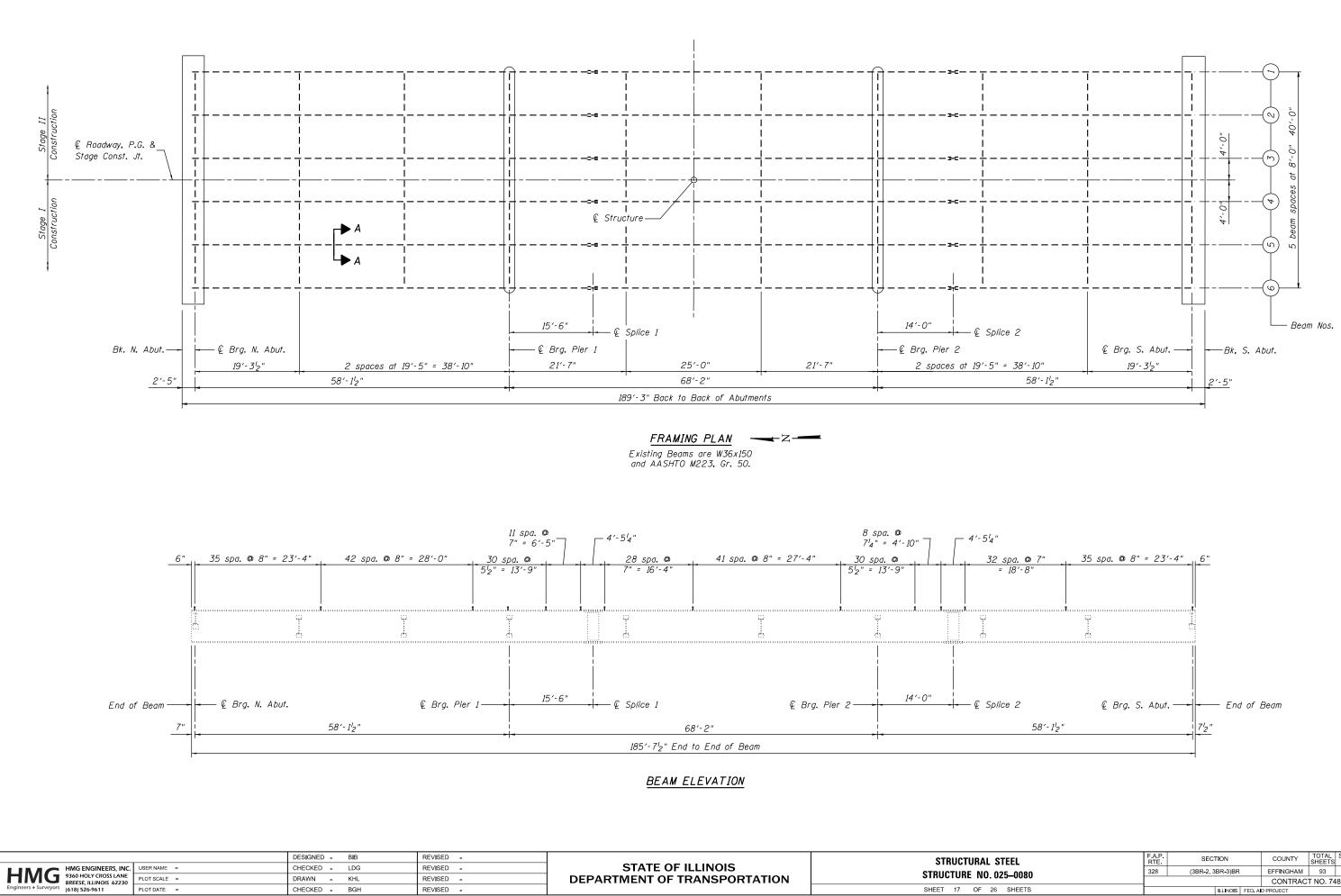


LOCKING EDGE RAIL SPLICE

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

<u>BILL OF MA</u>TERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	91



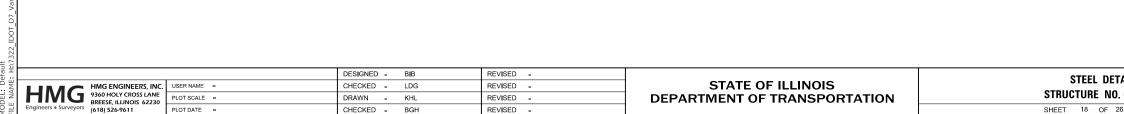
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. STEEL . 025–0080		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		328 (3BR-2, 3BR-3)BR			EFFINGHAM	93	29
					CONTRAC	T NO. 74	859
26 SHEETS		ILLINOIS	FED. A	D PROJECT			

INTE	RIOR GI	RDER MOMENT TABLE		
		0.4 Sp. 1 or 0.6 Sp. 3	Pier	0.5 Sp. 2
Is	(in ⁴)	9,040	9,040	9,040
Ic(n)	(in ⁴)	27,171		27,171
Ic(3n)	(in⁴)	17,914		17,914
Ic(Cr)	(in ⁴)		12,560	
Ss	(in ³)	504	504	504
Sc(n)	(in ³)	738		738
Sc(3n)	(in ³)	670		670
Sc(Cr)	(in ³)		584	
ę	(k/′)	1.0	1.0	1.0
MQ	(′k)	245	398	180
sq	(k/′)	0.535	0.535	0.535
Msq	(′k)	131	213	97
MŁ	('k)	450	361	431
Мім	('k)	123	96	112
⁵ 3[M4 + 1]	(′k)	955	762	905
Ma	(′k)	1,730	1,785	1,537
Mu	(′k)	3,744	2,422	3,744
fs ₽non-comp	(ksi)	5.8	9.5	4.3
fs ₽ (comp)	(ksi)	2.3	4.4	1.7
fs ⁵ 3[M4 + M _I]	(ksi)	15.5	15.7	14.7
fs (Overload)	(ksi)	23.6	29.6	20.7
VR	(k)	59.6	116.3	51.0

INTERIOR GIRDER REACTION TABLE								
	Pier							
R₽	(k)	34.0	107.1					
R4	(k)	42.1	53.8					
RI	(k)	11.5	14.3					
R Total	(k)	87.6	175.2					

* Compact section



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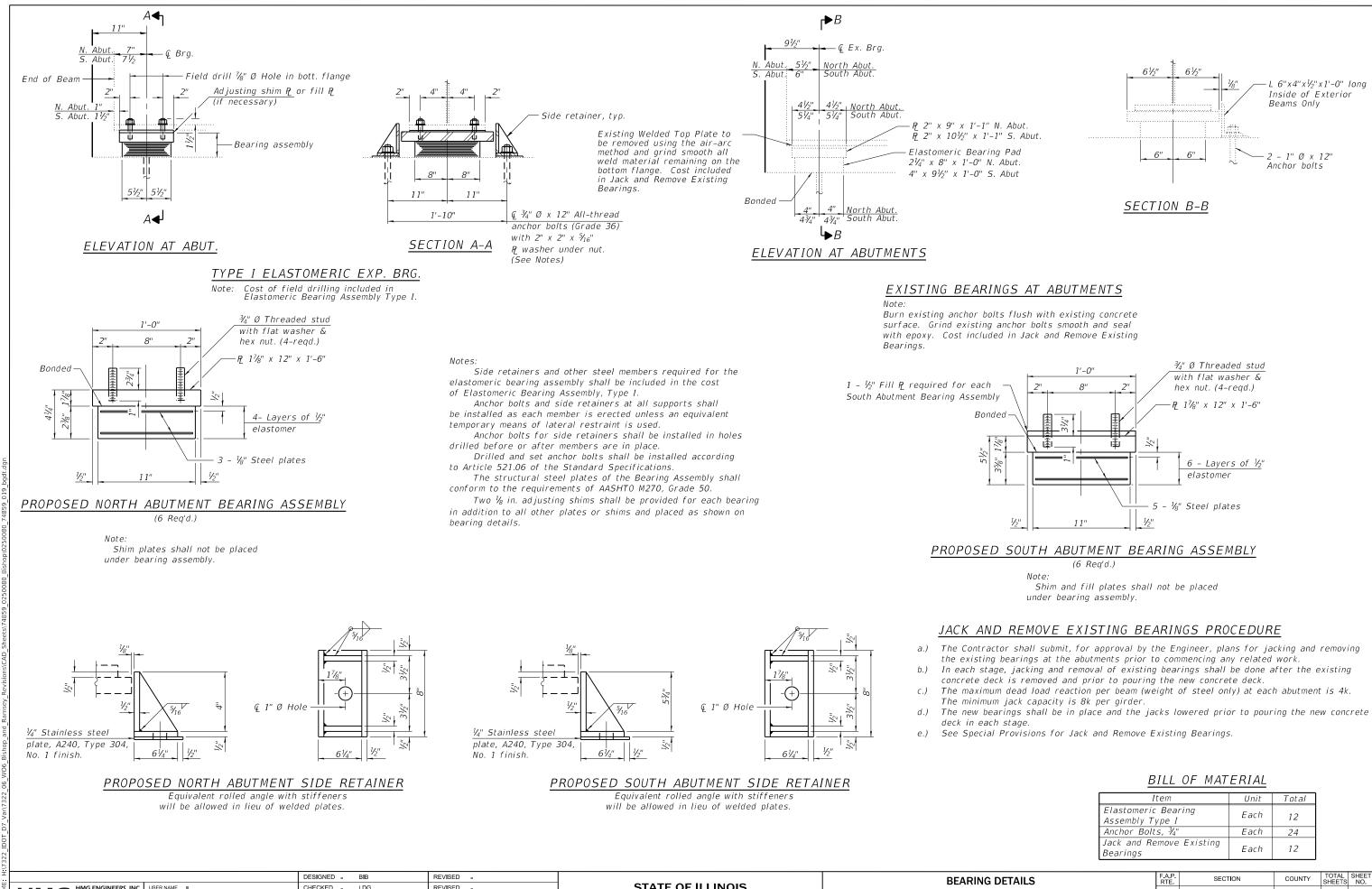
 ${}^{3}_{4}{}^{\prime\prime}\phi$ Granular or solid flux

end welded to flange.

filled headed studs, automatically

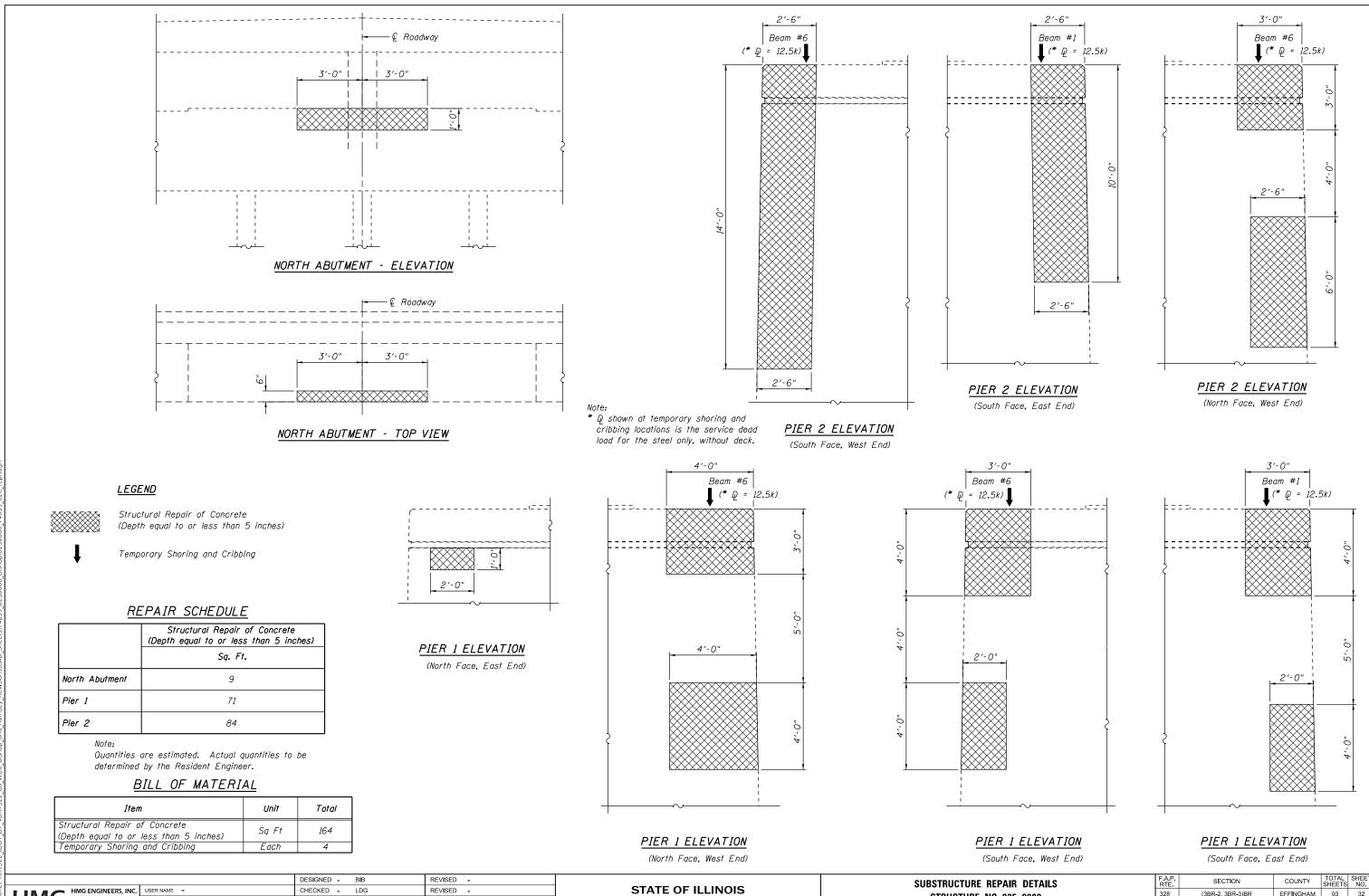
- Is, Ss: Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total and Overload) due to non-composite dead loads (in.4 and in.3).
- $I_c(n)$, $S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total and Overload) due to short-term composite live loads (in.4 and in.3).
- $I_c(3n)$, $S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total and Overload) due to long-term composite (superimposed) dead loads (in.4 and in.3).
- $I_c(cr)$, $S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing fs (Total - Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite dead loads (in.4 and in.3).
 - Q: Un-factored non-composite dead load (kips/ft.).
 - $M\bar{q}$: Un-factored moment due to non-composite dead load (kip-ft.). $s\, ar{arrho}$. Un-factored long-term composite (superimposed) dead load (kips/ft.)
 - Ms Q: Un-factored moment due to long-term composite (superimposed) dead load (kip-ft.).
 - ML: Un-factored live load moment (kip-ft.).
 - M_I: Un-factored moment due to impact (kip-ft.).
 - Ma: Factored design moment (kip-ft.).
 - $1.3 [MQ + M_sQ + \frac{5}{3} (M_L + M_I)]$
 - Mu: Compact composite moment capacity according to AASHTO LFD 10.50.1.1 or compact non-composite moment capacity according to AASHTO LFD 10.48.1 (kip-ft.).
- fs (Overload): Sum of stresses as computed from the moments below (ksi). $MQ + M_{SQ} + \frac{5}{3}(M_{4} + M_{1})$ VR: Maximum4 + impact shear range within the composite portion of
 - the span for stud shear connector design (kips).

TAILS . 025–0080		SECTION		COUNTY		TOTAL SHEETS	SHEET NO.
		328 (3BR-2, 3BR-3)BR			EFFINGHAM	93	30
					CONTRAC	T NO. 74	859
26 SHEETS	ILLINOIS FE				D PROJECT		



efar			DESIGNED - BIB	REVISED -		BEARING DETAILS	F.A.P. RTF	SECTION	COUNTY TOTAL	L SHEET
AME		SER NAME = CHECKED -	CHECKED - LDG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 025-0080	328	(3BR-2, 3BR-3)BR	EFFINGHAM 93 31	
DDEI	BREESE, ILLINOIS 62230	PLOT SCALE =	DRAWN - KHL				_		CONTRACT NO. 7	74859
ĭ ≣ ⊑ L	Engineers • Surveyors (618) 526-9611	PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 19 OF 26 SHEETS		ILLINOIS FED. A	AID PROJECT]

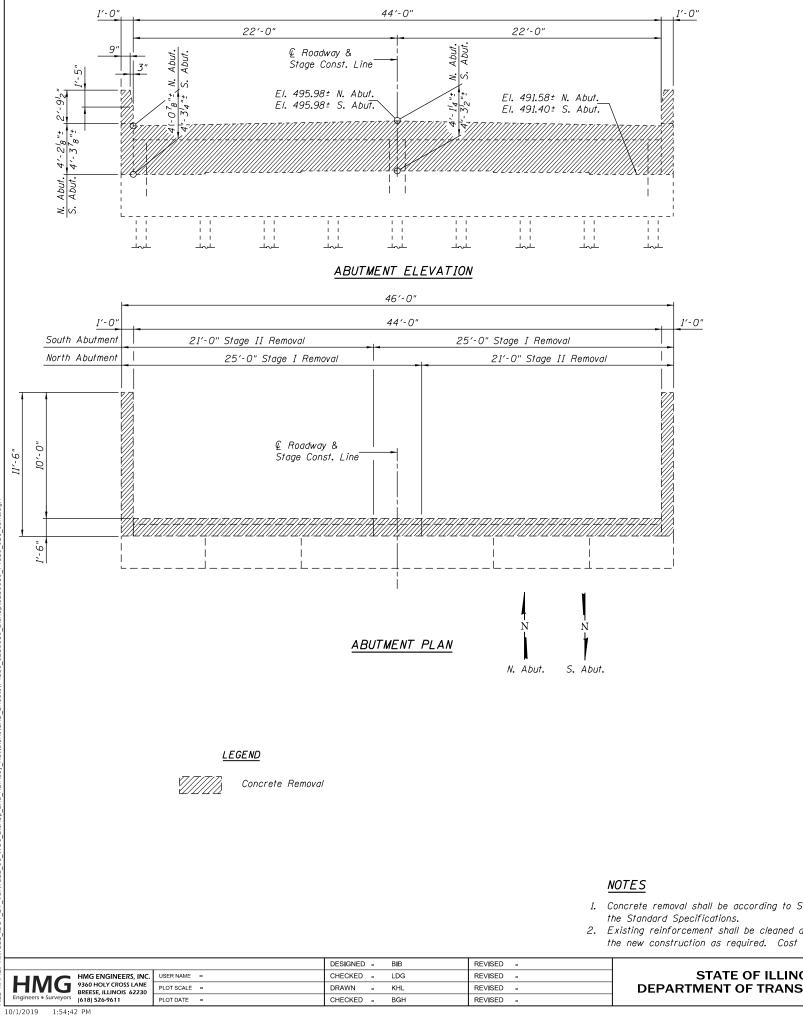
Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12
Anchor Bolts, ¾"	Each	24
Jack and Remove Existing Bearings	Each	12

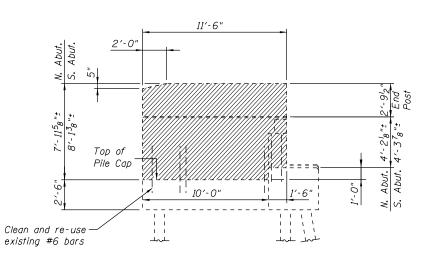


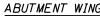
HMG ENGINEERS, INC. 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230 (18) 526-9611 PLOT SCALE = PLOT SCALE = **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = DRAWN - KHL REVISED -PLOT DATE = CHECKED - BGH REVISED -10/1/2019 1:44:12 PM

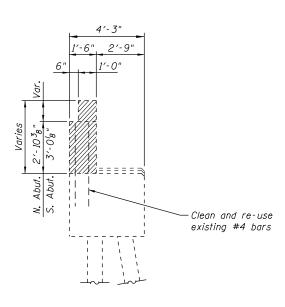
STRUCTURE NO. SHEET 20 OF 2

PAIR DETAILS 025–0080		SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
		(3BR-2, 3BR-3)BR			EFFINGHAM	93	32
					CONTRACT NO. 74859		
26 SHEETS	ILLINOIS			FED. AI	D PROJECT		









1. Concrete removal shall be according to Section 501 of

2. Existing reinforcement shall be cleaned and incorporated into the new construction as required. Cost included with Concrete Removal.

efau			DESIGNED - BIB	REVISED -		CONCRETE REMOVAL	F A P RTE	SECTION	COUNTY TOT	TAL SHEET
L: D AME	HMG ENGINEERS, INC. 9360 HOLY CROSS LANE BREESE ILLINOIS 62230	USER NAME =	CHECKED - LDG	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 025–0080	328	(3BR-2, 3BR-3)BR	EFFINGHAM 93	3 33
DDEI DDEI		PLOT SCALE =	DRAWN - KHL	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NC	O. 74859
ĭ ≣ Ľ	Engineers Surveyors (618) 526-9611 0/1/2010 1.54.42 PM	PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 21 OF 26 SHEETS		ILLINOIS FED. AI	D PROJECT	

ABUTMENT WINGWALL ELEVATION

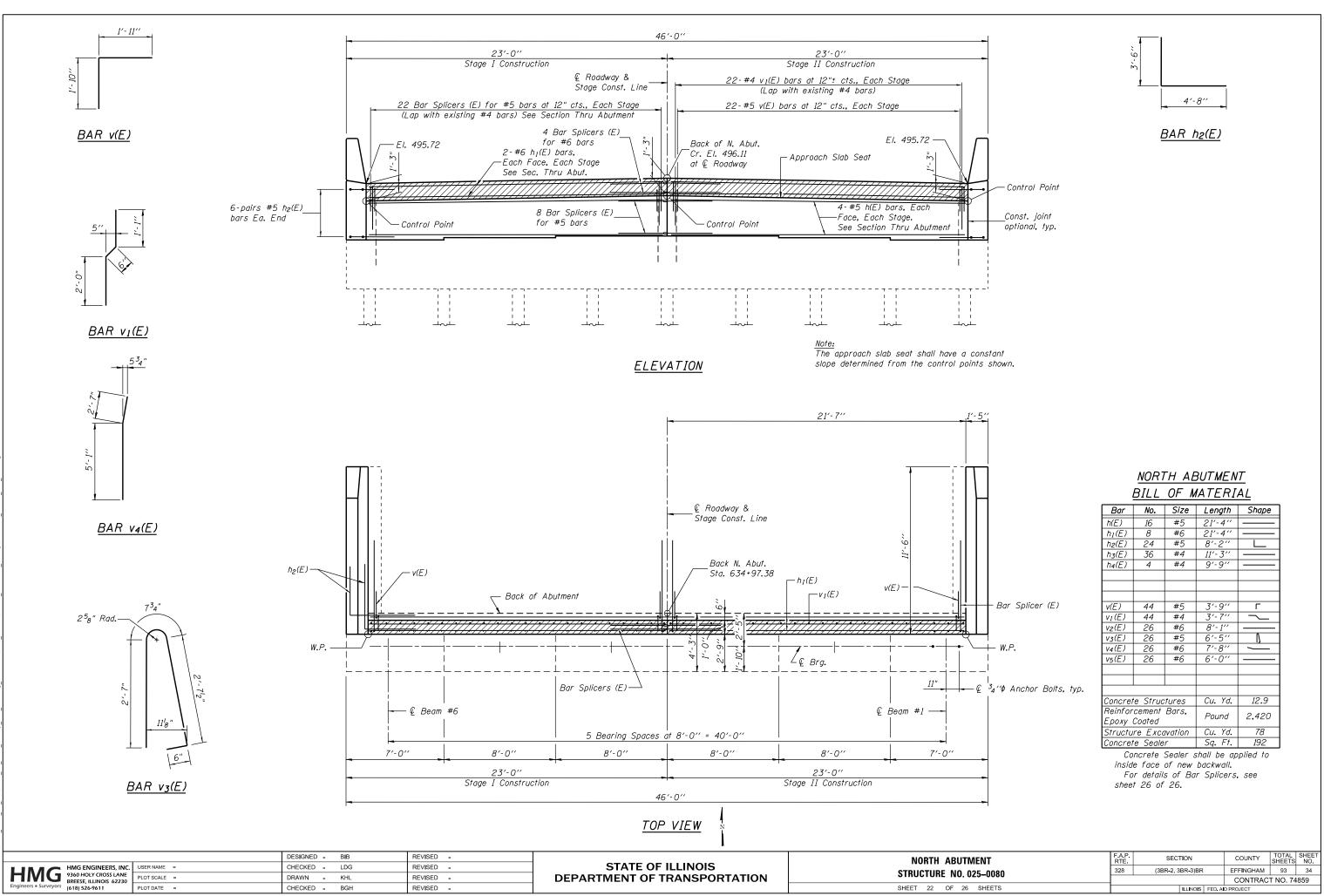
ABUTMENT SECTION

SCHEDULE OF CONCRETE REMOVAL

Concrete Removal	Cu. Yd.
North Abutment	15.8
South Abutment	16.4

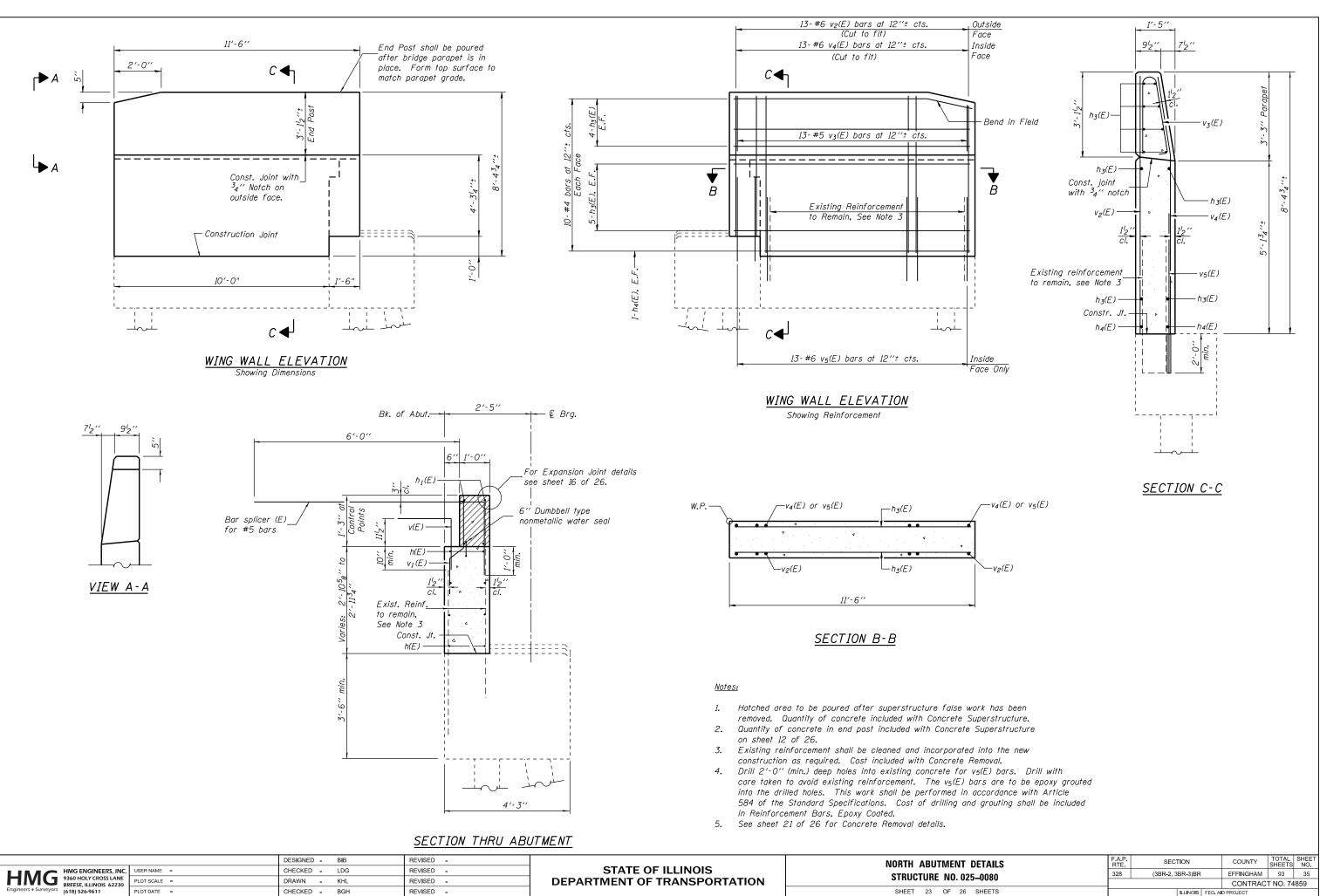
BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu Yd	32.2



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ITMENT		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
. 025–0080		(3BR-2, 3BR-3)BR		EFFINGHAM	93	34	
. 025-0080					CONTRAC	T NO. 74	859
26 SHEETS			ILLINOIS	FED. A	D PROJECT		



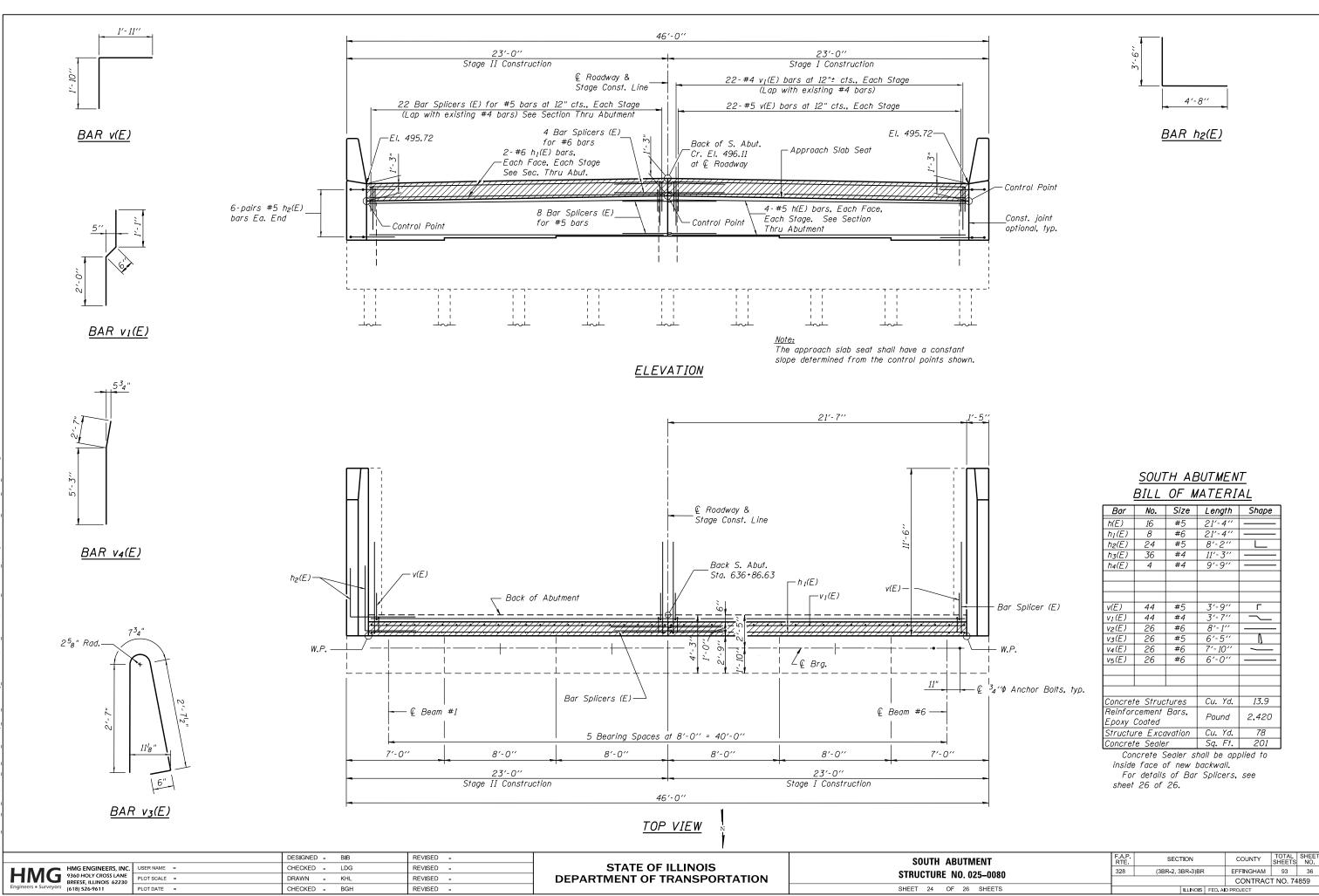
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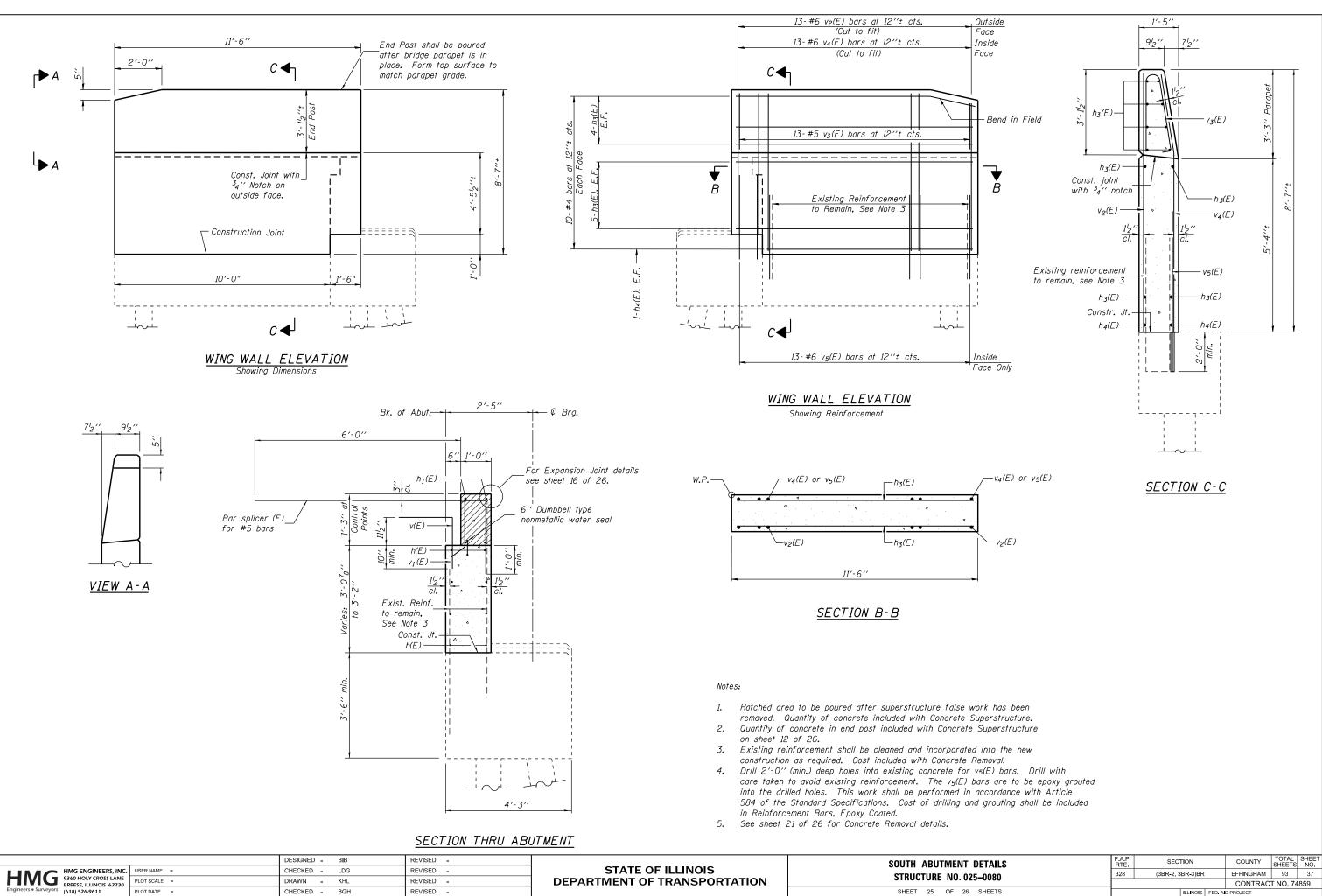
SHEET 23 OF 26 SHEETS

ILLINOIS FED. AID PROJEC



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TMENT		SECTION		COUNTY		TOTAL SHEETS	SHEET NO.
. 025–0080		(3BR-2, 3BR-3)BR		EFFINGHAM	93	36	
. 025-0080					CONTRAC	T NO. 74	859
26 SHEETS			ILLINOIS	FED. A	D PROJECT		



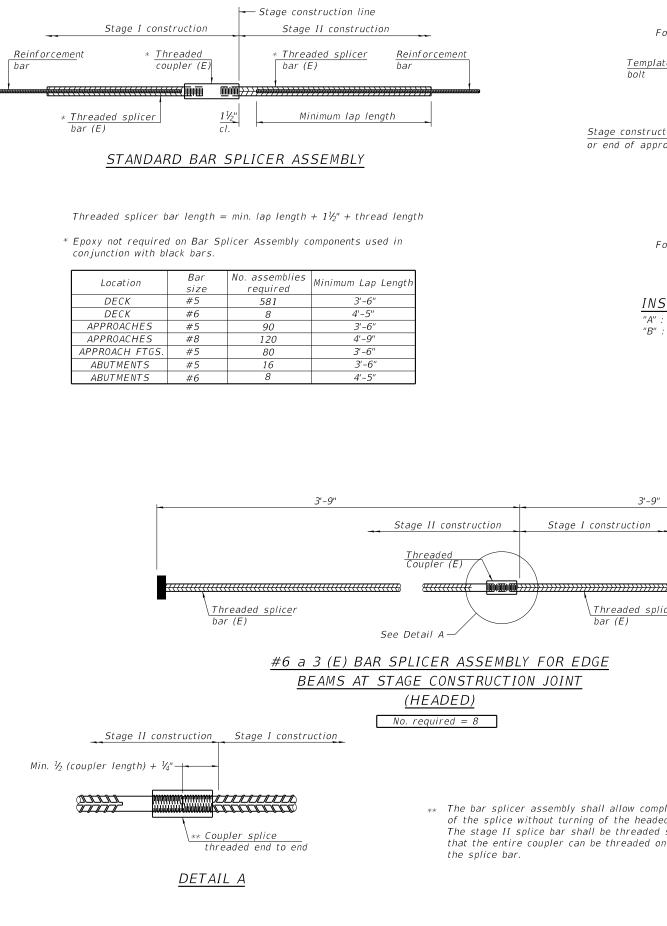
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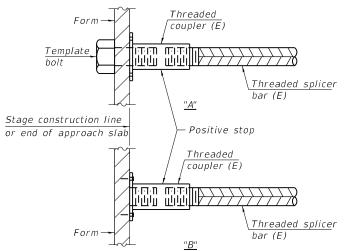
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SHEET 25 OF 26 SHEETS

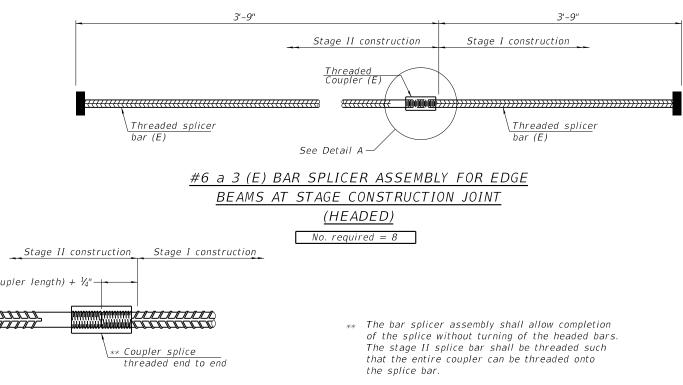
ILLINOIS FED AID PROJEC



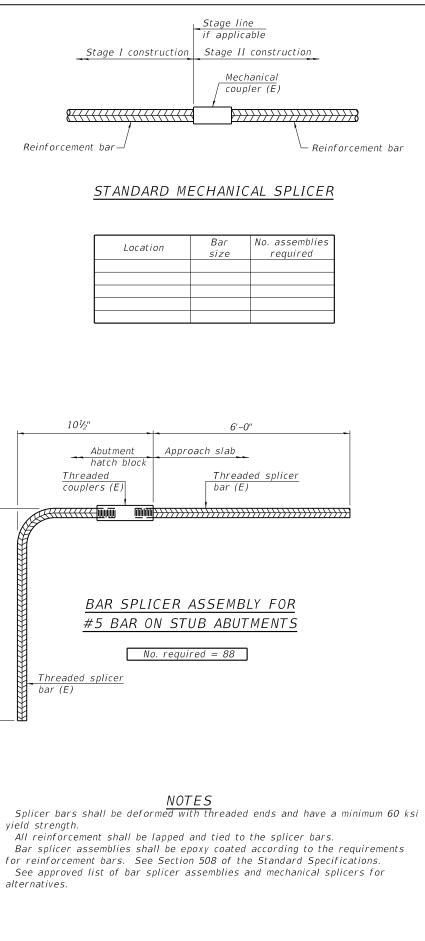


INSTALLATION AND SETTING METHODS

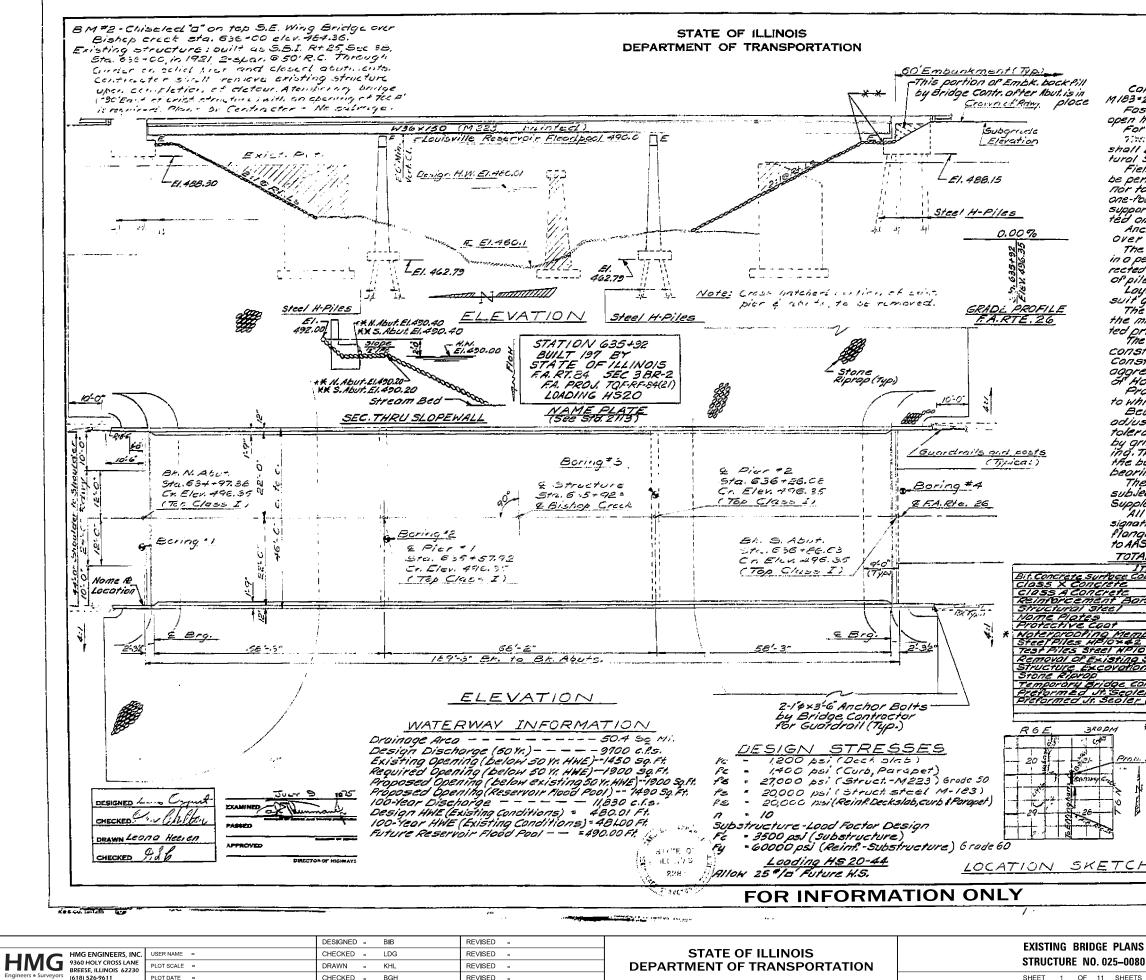
- "A" : Set bar splicer assembly by means of a template bolt.
- "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms. (E) : Indicates epoxy coating.



DESIGNED - BIB REVISED -BAR SPLICER ASSEMBLY AND ME STATE OF ILLINOIS HMG ENGINEERS, INC. USER NAME = 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230 PLOT SCALE = CHECKED - LDG REVISED -STRUCTURE NO. DRAWN - KHL REVISED -**DEPARTMENT OF TRANSPORTATION** SHEET 26 OF 2 PLOT DATE = REVISED -CHECKED - BGH veyors (618) 526-9611



ECHANICAL SPLICER DETAILS		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
. 025–0080		(3BR-2, 3BR-3)BR		EFFINGHAM	93	38	
. 025-0080					CONTRAC	T NO. 74	859
26 SHEETS			ILLINOIS	FED. A	D PROJECT		



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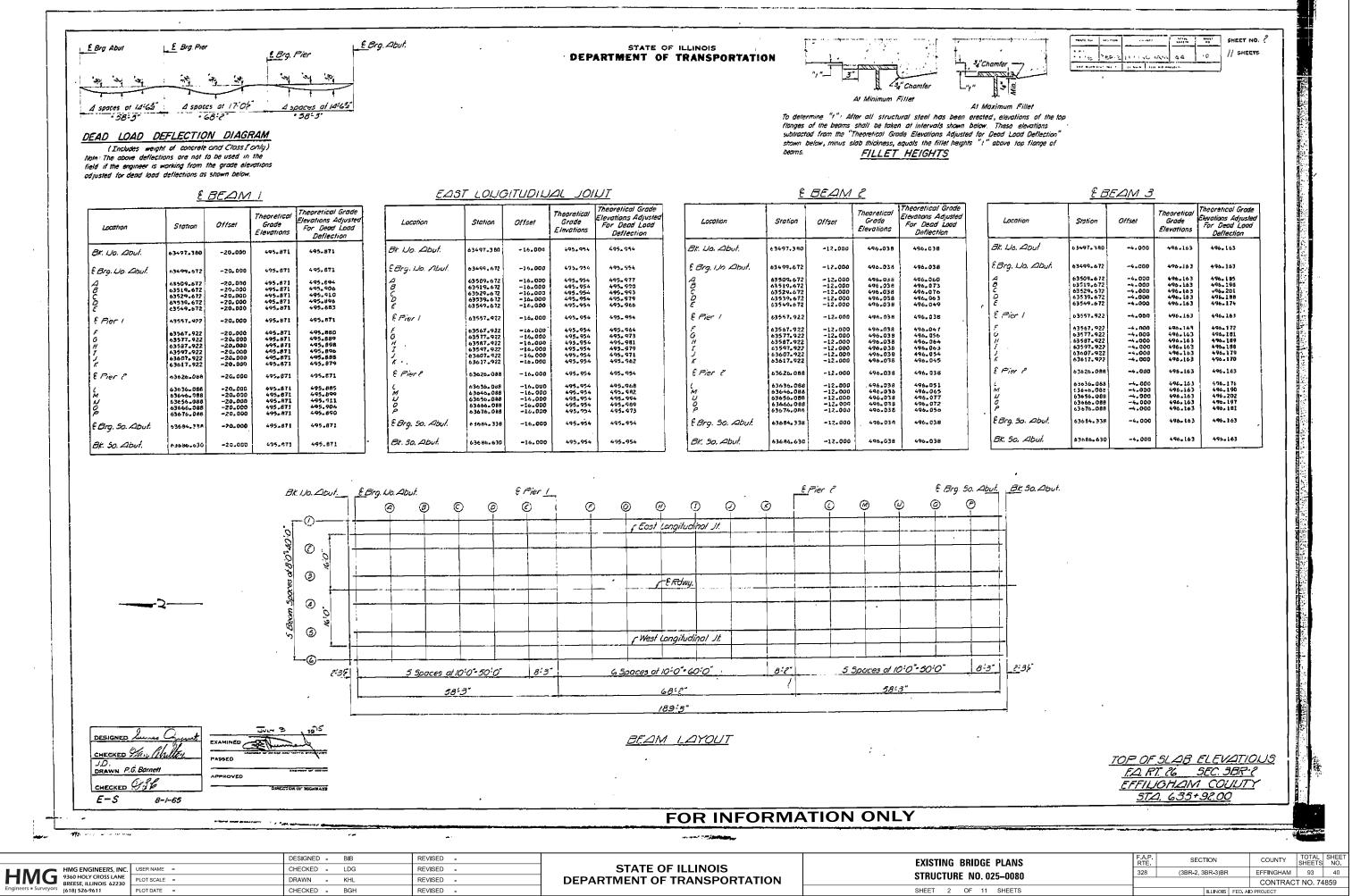
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osteners sholl be hi	igh stre	ngti	h 60/7	's .80/1	's '8 0;
n holes "516" ø, unles. For Boring Doto see	the pro	003	01.		
124 basic lead silica all be used for shop	chromo	nte i	point	syste	Share
ral steel				•	
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-Pourth the span leng ports Field welding in	th each other	WOL	y fron S will	n the p	oier Fmit-
only when opproved	d by the	: Enç	pinee.	m	
Anchor bolts shall be er supports.	sét de	fore	bolti	ng diop	nragms
The contractor shall a	rive on	e ste	eel te:	st pile d	each
n permonent location ted by the Engineer be					
oiles.			-		
Layout of Riprop It ground condition	noy be i is as dif	vorie recte	d 103 d bus	he field he Enoi	a to neer.
he embankment con	riquro	tior	show	ın shall	l be
minimum embankn prior to constructi	ion of i	he l	obuti	recans nents	
the concrete roll set	ction o	bove	s the ,	monda	rory
nstruction joint at a Instructed of close	the top 5 X Col	OF I TERE	ne si te.es	ab she cept	oll be the
regotes sholl con	Norm t	6 the	e req	uirem	ents
Hondrail Concrete Protective Coat she	e. oll not .	be d	noolie	d to su	rioces
vhich Noterproofing	n Memb	ron	e sys	. is opp	Vied.
Bearing seát surfác Vusted to the design	ces sno noted a	977 D 9/EVI	e con stion	s with	in o
eronce of ±'8".Adju	stmen	t she	sll be	made (either
grinding the surface	se or di shims.	4 30 08 th	e din	ensio.	ns of
e bottom bearing plan oring in Add. to all othe	e.sholl	'De l	provid	ed for	eocn:
he main load corry	ing mei	mbe	rs 0:	" steel.	Dridgis
bjected to tensile str oplemental requirem	15583 S	Shall	CON	form t	o the
All structurof steel	shall c	onfi	nn t	DAASH	10 de-
anation M-185 except ange and Neb Splice	N36×.	150. whi	beon ch sh	ns ond all col	1 Oll Arra
AASHO designation i	M-223,	Gr. 5	0.	0,, 00,	
<u>OTAL BILL OF MATE.</u>	RIAL				
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Course, Cluss 1	<u>Cu.</u>	Yds. Yds	267.3	89.3 277.6	336.6 217.6
Sars	<u>LL</u>	5.	63710	23880	88394
	EO	C19	12.4		100
embrone System	<u> </u>	Yds. Yds.	169 877		877 1742
	20	ch.		1742	1742
ng Structures Non		ch Ids,		259.0	259.0
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Complete pler (212") er (4")	Lin.	ĔŢ.	46		46
<u>er (4°)</u>		<u>~7.</u>	46		70
* See Special Pro	Vision	.5			L
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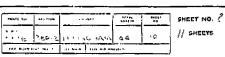
 EXISTING BRIDGE PLANS
 FA.P. RTE.
 SECTION
 COUNTY
 TOTAL SHEETS
 NO.

 STRUCTURE NO. 025-0080
 328
 (3BR-2, 3BR-3)BR
 EFFINGHAM
 93
 39

 SHEET
 1
 OF
 11
 SHEETS
 CONTRACT NO. 74859



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<u> </u>								
Location	Station	Offset	Theoretica/ Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection				
Bk. Wo. Abul	63497.380	-4.000	496-163	496.163				
EBrg, No. Abut.	63499.672	-4.000	476-163	496.163				
A	63509.672	-4.000	496.163	496-185				
A 0 0 0 0 0	63519,672	-4.000	490.163	495.196				
C	63 529. 572	-4.000	496-163	+96=201				
0	63539.67Z	-4.000	496.163	496-188				
ε	63549.672	-4-000	496,163	496.174				
E Pier 1	63557.922	-4.000	496.163	496.163				
- F	63567.922	-4.000	496+169	496-172				
0	03577.922	-4.000	496-143	496-101				
	63587-922	-4.000	496-163	476-189				
4	63597.922	-4-000	496.163	495-188				
17	63607.922	-4.000	496.163	496.179				
1	63617.922	-4.000	496,163	496.170				
E Pier P	63626.0BR	-4.000	496-163	496.163				
1	63636-065	-4- 000	496-163	496-176				
M	130+0.088	-4.000	496.163	496.190				
12	63656-088	-4.900	496.163	496-202				
Ĩõ	63666.088	-4-000	496.163	496.197				
P	63675-088	-4.000	495.163	496.181				
EBrg. 30. Abul.	63694 . 338	-4.000	496-163	496-163				
BK. 50. Abul.	63686.630	-4.000	496.163	495.163				

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

Location	Station	Offsel	Theoretical Grade Elevations	Theoretical Grade Elevations Adjuster For Dead Load Deflection
BK. No. Abut.	63497.380	0.0	496.225	496.225
E Brg. I.Jo. Abul.	63499.672	0.0	496.275	496.225
<u>ہ</u>	63509.672	0.0	496.225	496-247
ิส	63519.072	0.0	496.225	496.260
č	63579-672	0.0	496-225	490.204
यू छ <i>ू प</i> द	63539-672	0-0	496,225	496.250
Ε	63549,672	0.0	496.225	496.236
E Fier I	63557.922	9.0	+40,225	496-225
F	63567. 922	0-0	496-225	496.234
F 6 1	63577.922	n_0	496.225	496-243
Н	63567.922	0.0	496 225	496.252
Î	63597.922	0.0	496.225	496-250
) K	e 3607+922	0.0	496.225	496.242
ĸ	63617.927	0.0	496.225	496.233
E Pier C	63626.088	0.0	496.225	494.225
1	6 36 36- 088	0-0	496-225	496.239
м	63646-068	0.0	496.225	496.253
11	63656.088	0.0	496-225	496.264
0 P	63666.088	0_0	496.225	+90-259
ρ	63676.D88	0.0	496.225	496.244
EBrg. 50. Abut.	63684.338	0.0	-96.225	496.225

<u>E BEAM 4</u>								
Location	Station	Ofiset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Deod Load Deflection				
Bk. Llo. Abut.	63497.380	4.000	496.163	496.163				
E Brg, No. Abut.	63499.672	4.000	496.163	496.163				
A	63509.672	4.000	496-163	490-185				
8	63519-672	4.030	496.163	495,198				
č	03529+072	4.000	496.163	496-201				
D	63539.672	4-000	496-163	496-188				
মূলত এদ দ	63549.672	4.000	496.163	496.174				
E Pier I	63557.922	4. 000 ·	494.163	496-163				
F	63567.922	4.000	496.163	496-172				
FO HI.	03577 922	4.000	496.163	496-101				
Ĩ.	63587.922	4.000	496.163	496-189				
7	63597.922	4.000	496.163	496-188				
1514	63607.922	4,000	446-163	496-179				
7 · ·	63617.922	4.000	496,163	496.170				
E Pier ?	63626.D88	~.000	496.163	496-163				
4	63636-088	4.000	496-163	496.176				
м	63646-088	4-000	496.163	496-190				
172	63656.088	4.000	496.163	496-202				
	63666-086	4.000	496.163	496-197				
P	63676.088	4.000	496.163	496.181				
E Brg. So. Abut.	63484.338	4.000	496.163	496.163				
Bk. 50, Dbul.	63586-610	4.000	496.163	496,163				

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E BEAM 5									
Location	Station	Offset	Theoretical Grade Elovations	Elevations Adjusted For Dead Load Deflection					
BK. Up. Abut.	6 34 97 . 380	12-000	496.038	496.038					
E Brg. No. Abut.	634 99.672	12.000	496.038	494.038					
4	63509-672	12.000	496-038	496.060					
	63519-672	12,000	496.038	496.073					
Ē.	63529.672	12.000	496.038	496-076					
Ď	63539+672	12-000	496.035	496.063					
E	63549-672	12.000	496.038	496.049					
E Pier I	63557.922	12.000	496.038	496.036					
F	63567-922	12,000	496-038	496-047					
4 6 H I J K	63577.922	12.000	446.038	496-056					
H	63587.922	12.000	496.030	496-064					
Γ	63597-922	12.000	496-038	496.063					
·	63607-922	12.000	496.038	496.054					
K	63617.922	12.000	496+038	496-045					
E Pier 2	63626.088	12.000	496.038	496.038					
ć	63636-085	12.000	496.038	496.051					
w	03646-088	12.000	496-038	496-965					
ù l	67656-088	12.000	496-038	496-077					
0 P	63666-088	12.000	496.038	495.072					
0	63676-008	12.000	496.038	496.050					
E Brg. 50, Abut.	63684.338	12-000	496.038	496.038					
6K. 90, Abut.	63686-630	12-000	496.038	496.038					

Note:

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Elevations shown are attop of Concrete Slab. Top of Class I is 0.125' higher.

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Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflaction
BK. No. Abul,	63497.380	16-000	495.954	495.954
E Brg. No. Abut.	63499-672	16-000	495.954	495.954
	63509-672	16-000	495.954	495.977
18	63519-672	16.000	495 954	495.990
5	+3529.672	16.000	495.954	495-993
	63539-6721	16-000	495,954	495.979
E	63549-672	16.000	495.954	495.966
E Pier I	63557-922	16-000	495.954	495.954
F	03567-922	16.000	495.954	495.964
fo HH HJ	63577.922	16-000	495.954	495.973
H	63587.922	16.000	495.954	495.981
I	63597.922	16±000	495.954	495.479
	63607.922	16.000	445.954	495.971
ĸ	63617.922	16.000	495.954	495.962
E Pier E	63626-088	16-000	495.954	· 495_954
4	63636-089	16-000	495. 954	495.908
M	63640.088	15.000	495.954	495. 982
N JOP	63656-088	16-000	495,954	495.994
0	63666+085	16.000	495.954	495.989
P	63678-084	16.000	495.954	495, 973
E Brg. So. Abul.	63084.338	16.000	495.954	495.954
BK. So. Abut.	63686+ 630	16.000	495,954	495. 554

	INFORMATION ONL	

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DESIGNED June Com	EXAMINED This of the second
10	Z- PASSED
DRAWN P.G. Bornett	APPROVED
CHECKED DATE	DIRECTOR OF HICKN

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2 IC		FOR INFORMATION ONLY		
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efau H	DESIGNED - BIB REVI	EXISTING BRIDGE PLANS	SECTION	COUNTY TOTAL SHEET
D P	HIG ENGINEERS, INC. USER NAME = CHECKED - LDG REVI		(3BR-2, 3BR-3)BR EF	FFINGHAM 93 41
N N	HMG ENGINEERS, INC. USER NAME = CHECKED - LDG REVI 9360 HOLY CROSS LANE PLOT SCALE = DRAWN - KHL REVI	Structure No. 025-0080	/	CONTRACT NO. 74859
MOI	Engineers • Surveyors (618) 526-9611 PLOT DATE = CHECKED - BGH REVI	SVISED - SHEET 3 OF 11 SHEETS	ILLINOIS FED. AID PRO	
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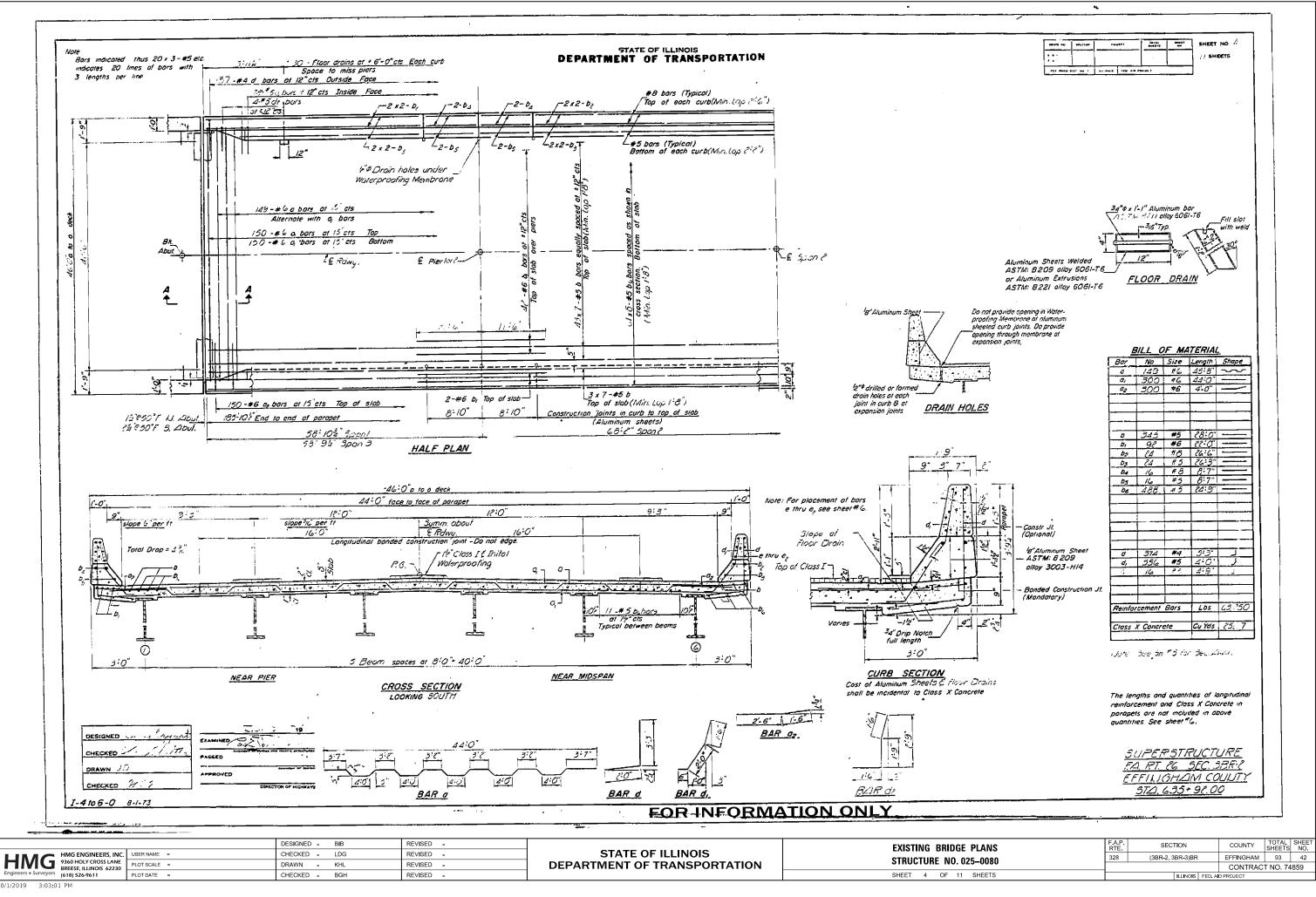
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	٤	<u>BEAM</u>	6	
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Lood Deflection
BK, No. Abut.	63497.380	20.000	495.871	495.871
E Brg, No. Abul.	63499.672	20.000	495.871	495.871
A	63509.672	20.000	495.871	495.894
8	63519.672	20.000	495-871	495.906
4800e	63529.672	20.000	495-871	495.910
0	63539-672	20.000	495_871	495.896
ε	63549.672	20.000	495_871	495,883
E Pier I	63557.922	20.000	495.87L	495.871
F	63567.922	20.000	475-871	495-580
F G	63577.922	20,000	495-871	495.969
	63587.922	20-000	495-871	495.898
H I	63597,922	20.000	495.871	495.896
Ĵ	63607-922	20.000	495.871	495,880
×	63617.922	20.000	495.871	495.879
E Pier 2	o 3626 - 088	20.000	495.871	495.871
4	63636.000	20.000	495-871	495+685
M	63646-086	20+000	495-871	495.899
V	03656-086	20+000	495-871	495-911
0 P	63666-086	20-000	495.071	495.906
P	63676.088	20+000	495.871	495.890
EBrg. So. Abut.	63684.338	20.007	495.871	495.071
ВК. 90. Аbut.	63686.039	20+000	495.871	+95.871

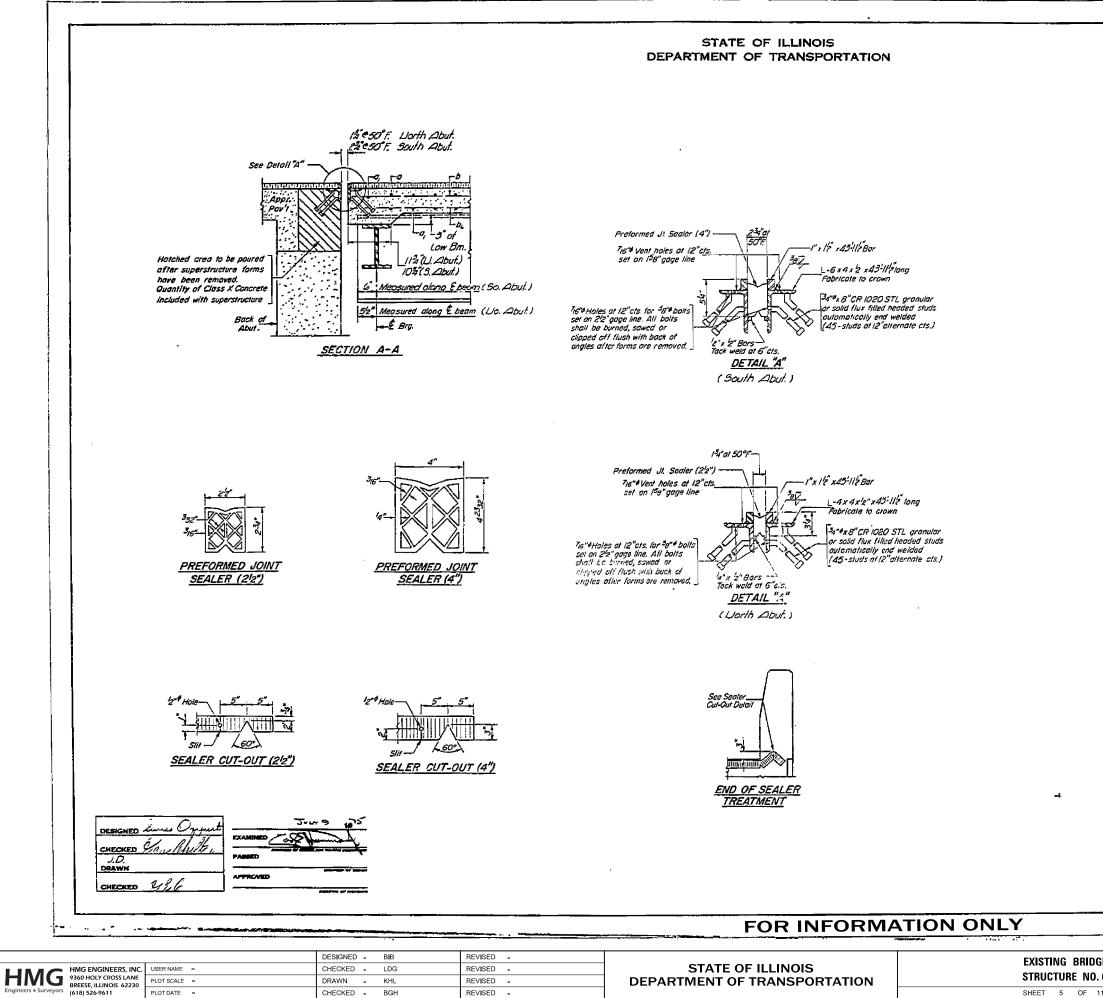
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TOP <u>OF SLAB ELEVATIOUS</u>
F.A. RT. 26 SEC. 3BR-2
EFFINOHAM COUNTY
<u>57, 635+92.00</u>



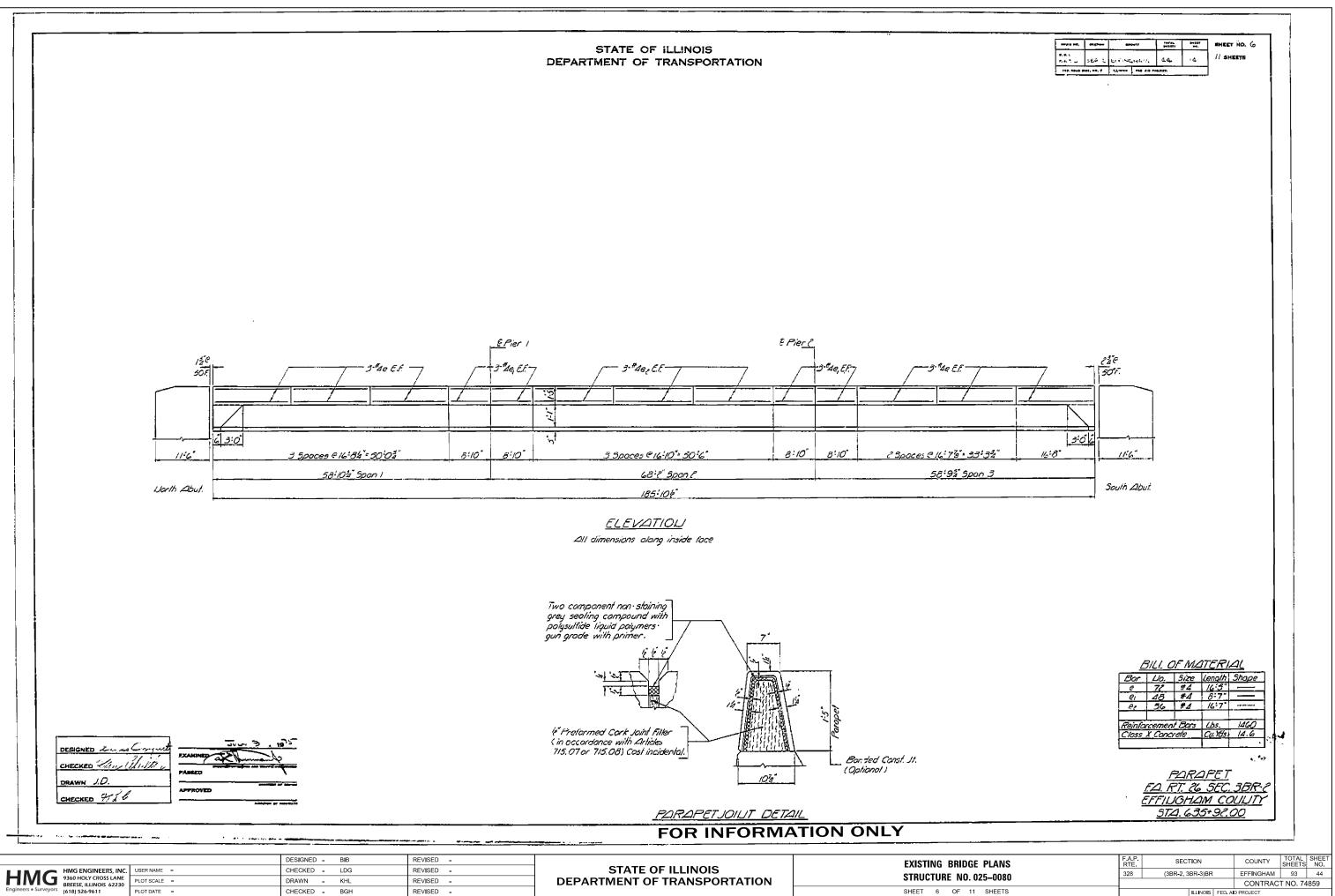
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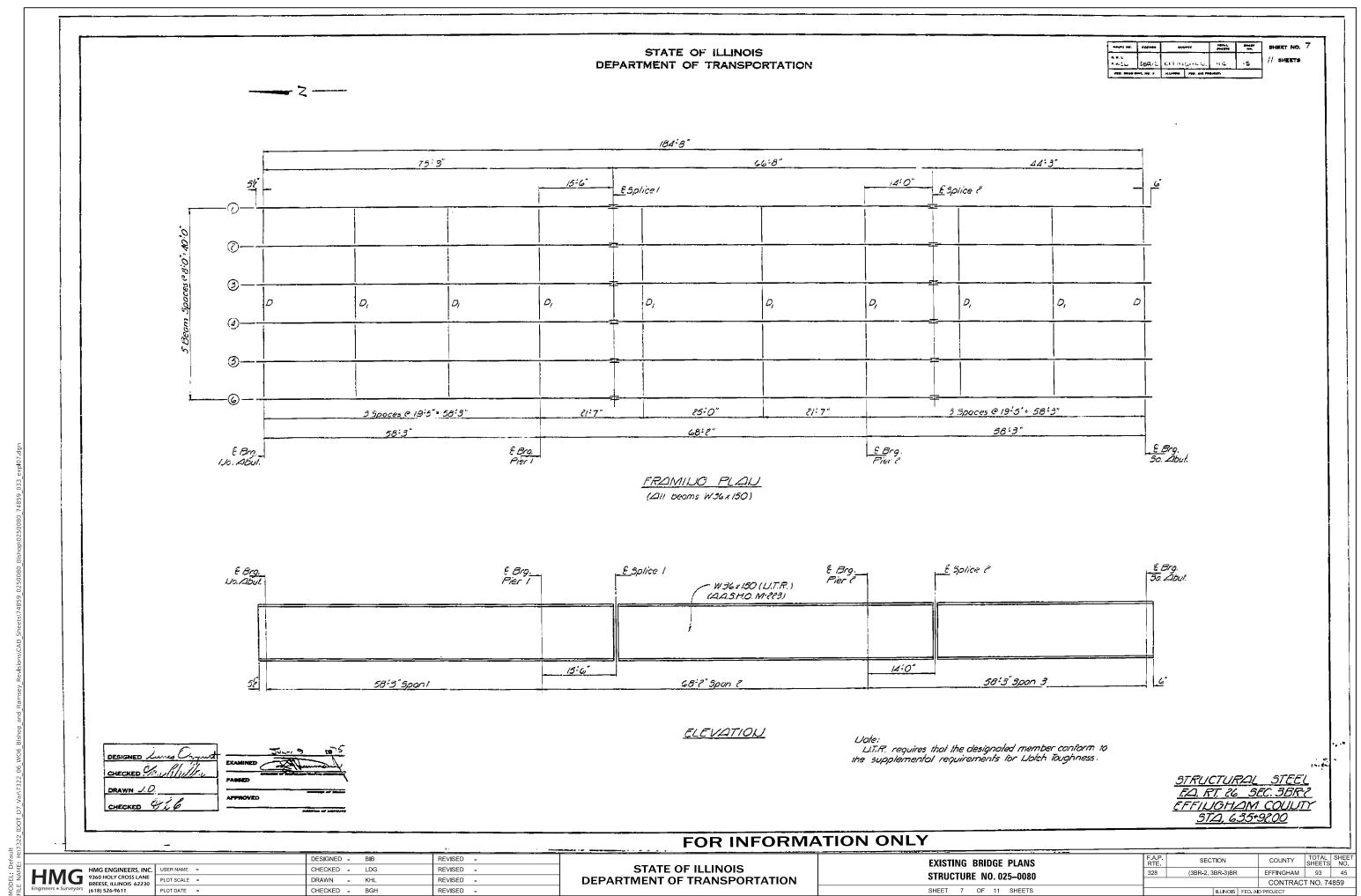
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ана, с. 17. Ан 2 Igu	2,4,5.2	ELENLANAM	14	13	// SHEETS

SUPERSTRUCTURE DETAILS F.D. RT. 26 SEC. 3BR-2 EFFILIGHAM COULTY 5TA. 635+92.00

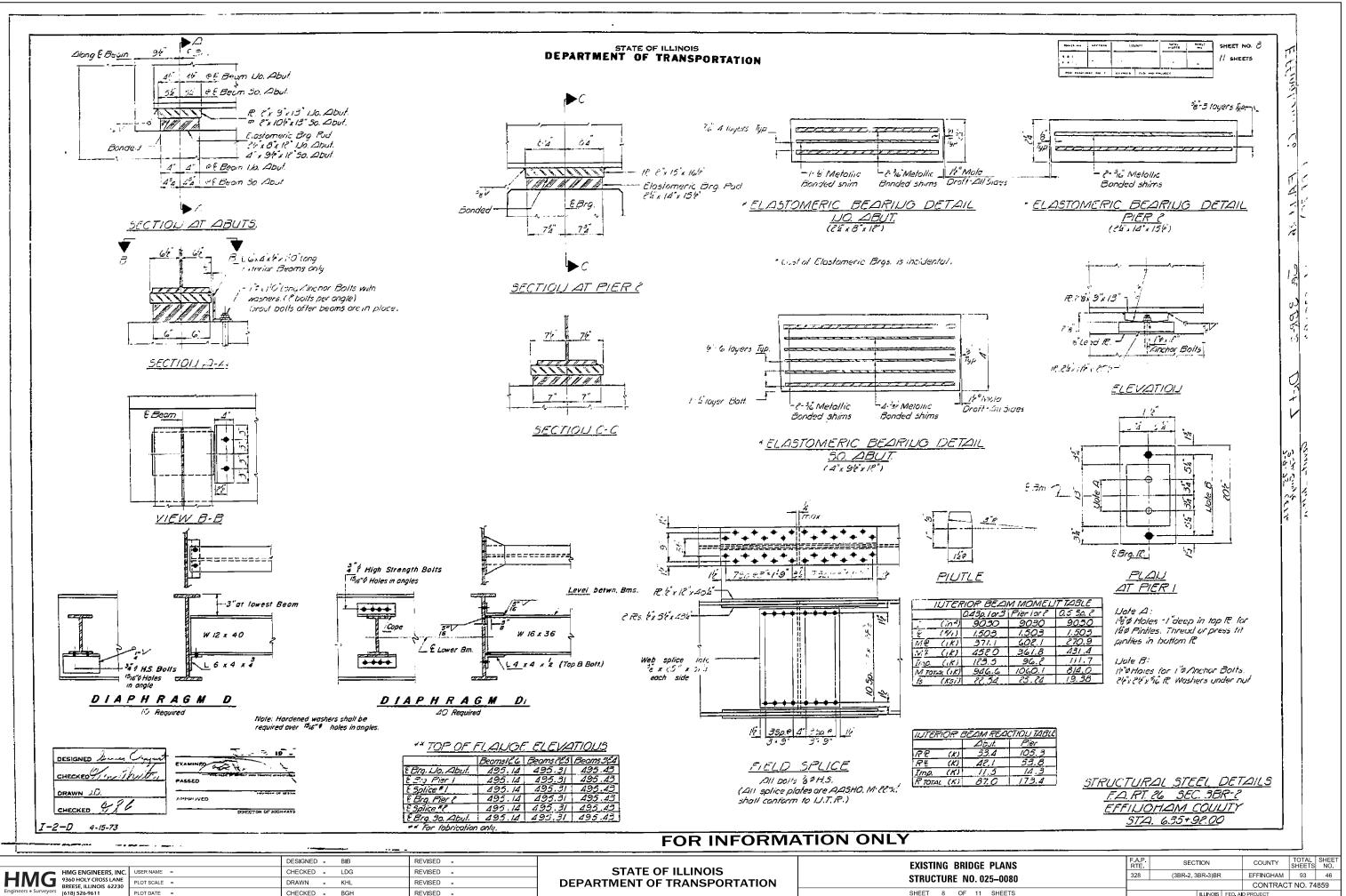
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GE PLANS 0. 025-0080		SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
		(3BR-2, 3I	BR-3)BR		EFFINGHAM	93	43
					CONTRAC	T NO. 74	859
11 SHEETS			ILLINOIS	FED. A	D PROJECT		



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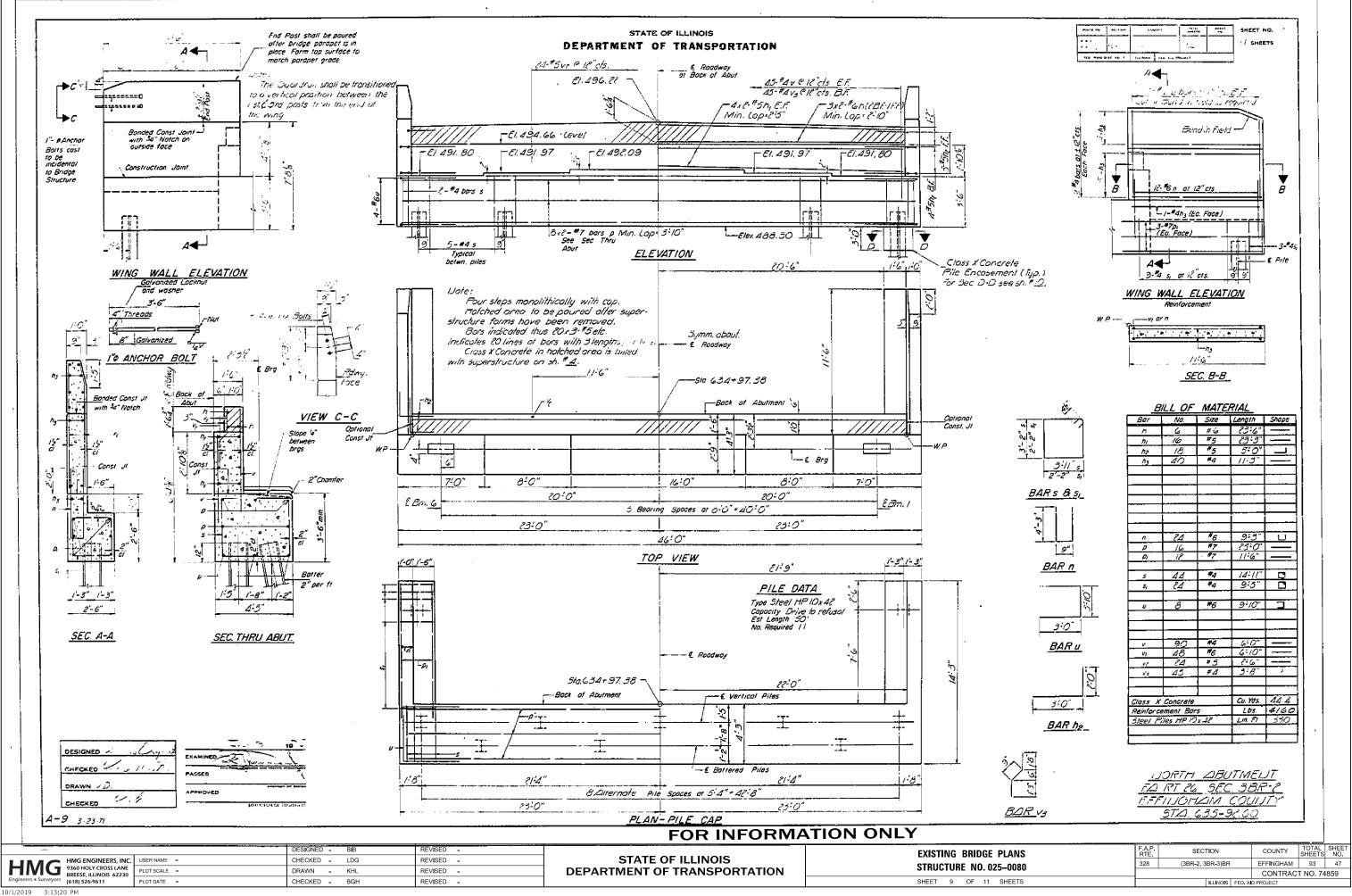


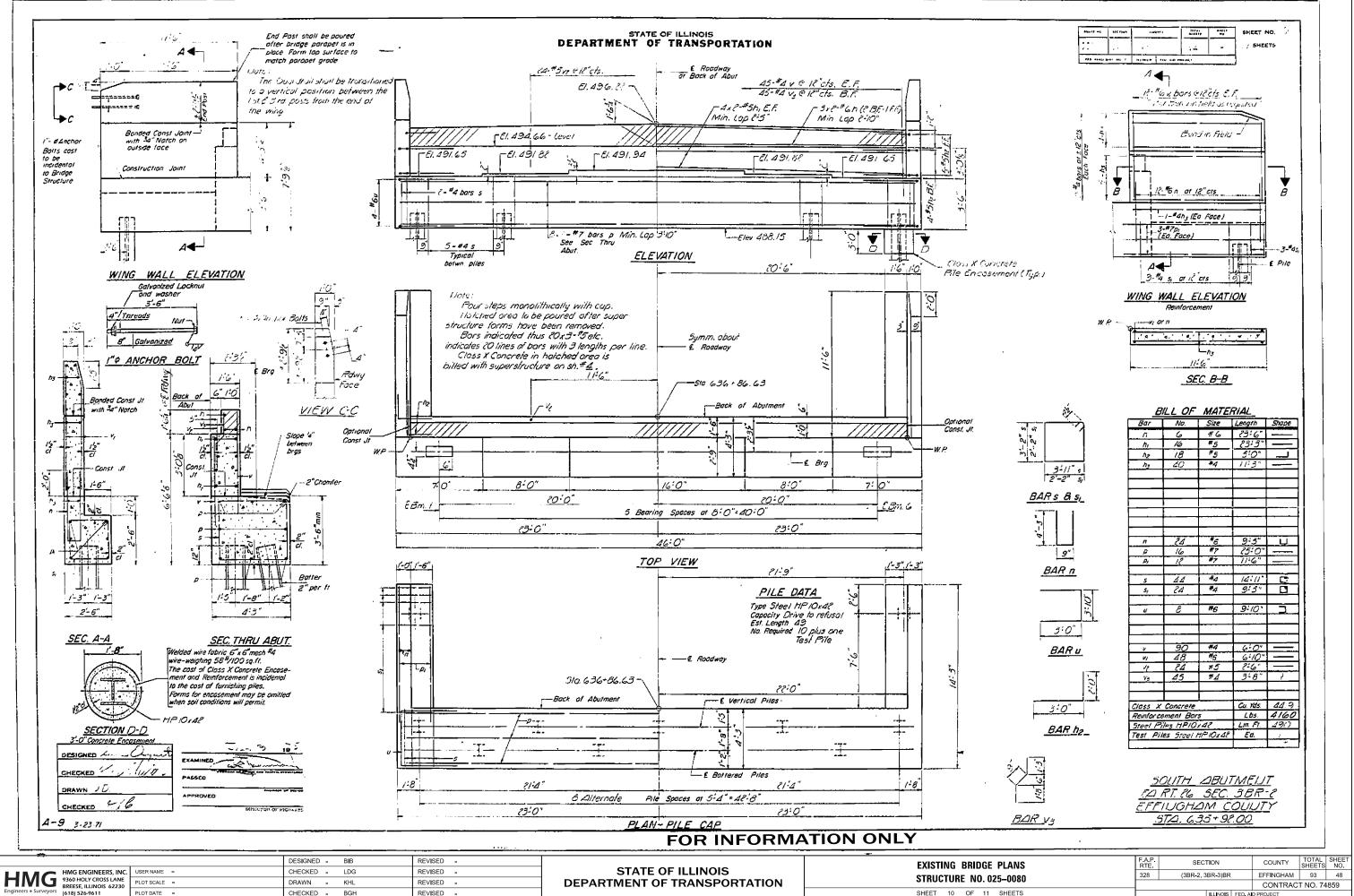
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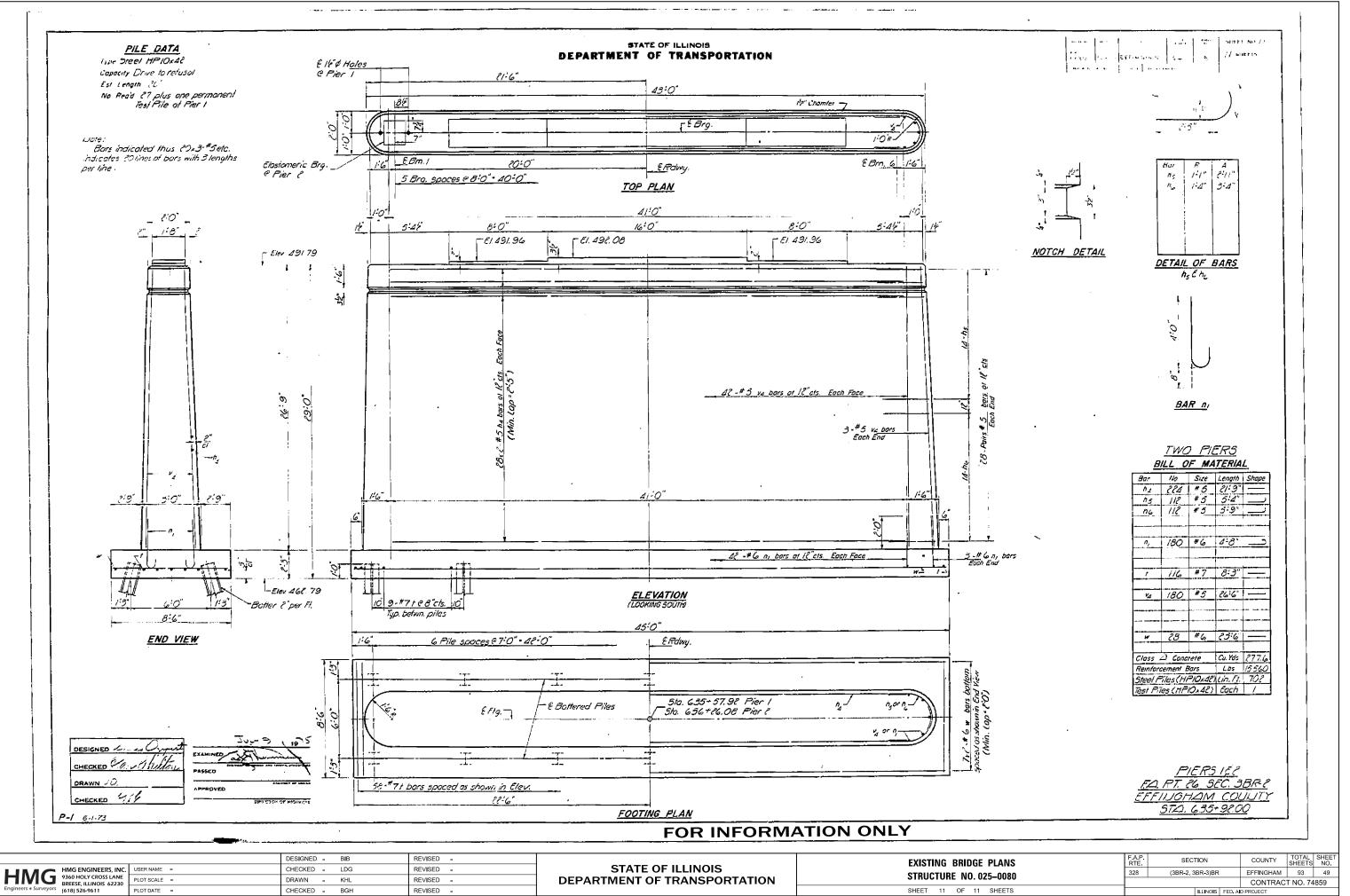
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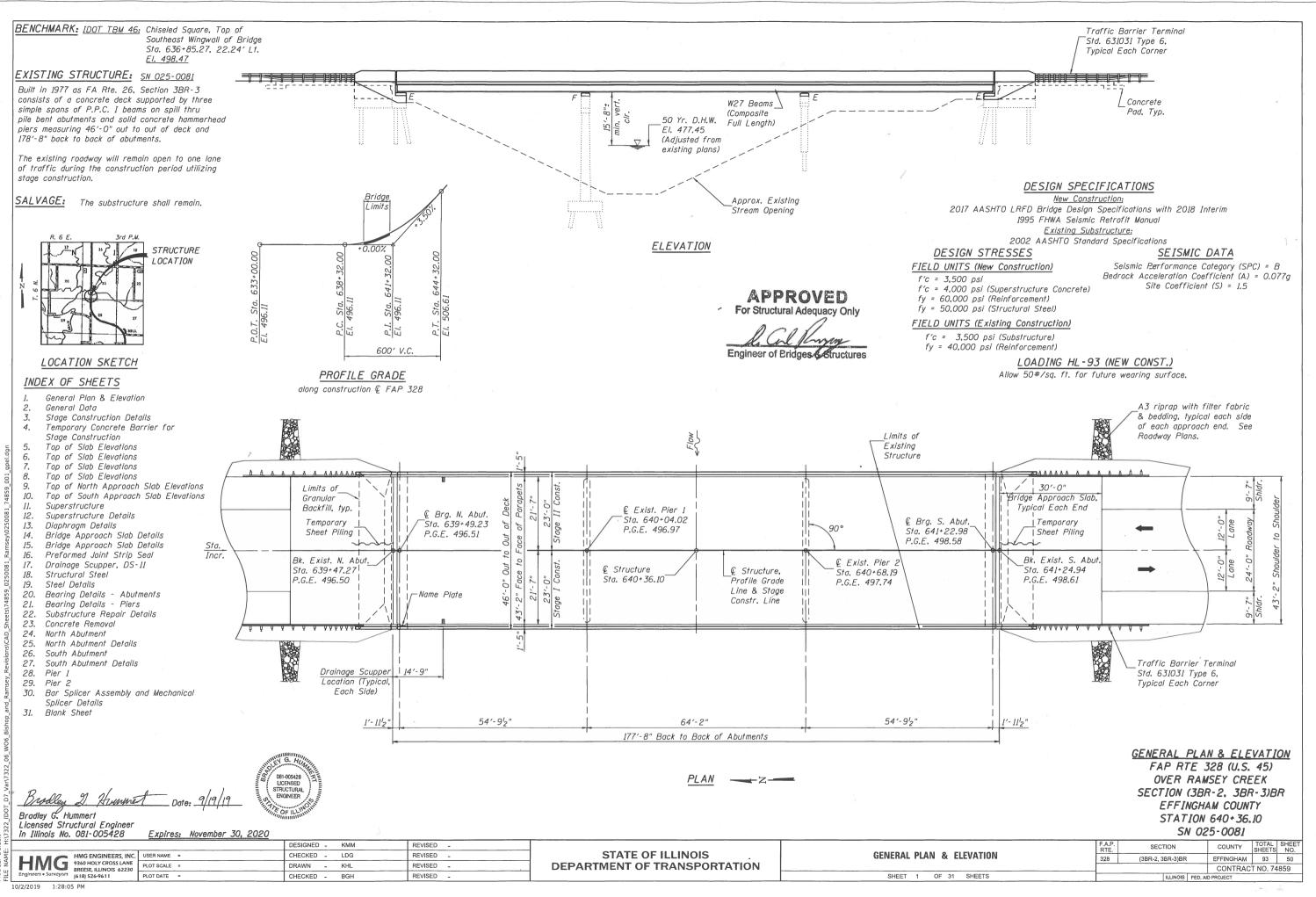


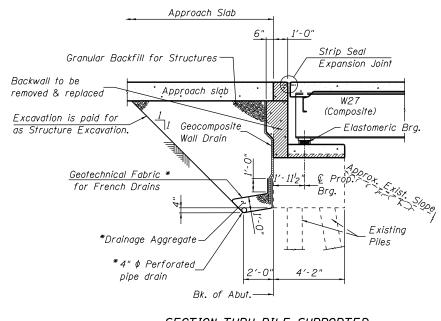


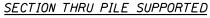
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STUB ABUTMENT

(Horiz. dim. @ Rt. L's) *Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

Note:

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All drainage system components shall extend parallel to the abutment back wall until they intersect the wingwalls or 2'-O" from the end of the winawalls when the winas are parallel to the abutment. The pipe shall extend under the wingwall, if necessary, until intersecting the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

STATION 640+36.10	
RE-BUILT 201 BY	
STATE OF ILLINOIS	
FAP RTE 328	
SEC. (3BR-2, 3BR-3)BR	
LOADING HL 93	
STRUCTURE NO. 025-0081	

NAME PLATE

See Std. 515001 Existing Name Plate shall be cleaned and relocated next to New Name Plate. Cost included with Name Plates.

OTAL	BILL	0F	MATERIAL	

ITEM	UNIT	SUPER.	SUB.	TOTAL
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu Yd	10.2	22.7	32.9
Structure Excavation	Cu Yd		148	148
Concrete Structures	Cu Yd		71.7	71.7
Concrete Superstructure	Cu Yd	267.7		267.7
Bridge Deck Grooving	Sq Yd	1,090		1,090
Protective Coat	Sq Yd	1,334		1,334
Concrete Superstructure (Approach Slab)	Cu Yd	122.0	·	122.0
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	5,256		5,256
Reinforcement Bars, Epoxy Coated	Pound	118,180	13,110	131,290
Bar Splicers	Each	831	220	1,051
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	91		91
Elastomeric Bearing Assembly, Type I	Each	18		18
Anchor Bolts, ³ 4"	Each		24	24
Anchor Bolts, 14"	Each		24	24
Temporary Sheet Piling	Sq Ft		291	291
Granular Backfill for Structures	Cu Yd		127	127
Concrete Sealer	Sq Ft		968	968
Geocomposite Wall Drain	Sq Yd		65	65
Structural Repair of Concrete (depth equal to or less than 5 inches)	Sq Ft		104	104
Drainage Scuppers, DS-11	Each	2		2
Pipe Underdrains for Structures 4"	Foot		236	236

Quantity includes	top of concre	ete surface of bridge de	ck and approach slabs
end to end and	the top and in	nside vertical faces of t	he parapets and curbs.

		DESIGNED - K	KMM	REVISED -		GENERAL DATA	F.A.P. RTE	SECTION	COUNTY TOTAL SHEET SHEETS NO.
HMG ENGINEERS, INC. 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230	USER NAME =	CHECKED - L	DG	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 025–0081	328	(3BR-2, 3BR-3)BR	EFFINGHAM 93 51
BREESE, ILLINOIS 62230	PLOT SCALE =	DRAWN - K	KHL	REVISED -	DEPARTMENT OF TRANSPORTATION	31NUCTURE NU. 023-0001			CONTRACT NO. 74859
Engineers • Surveyors (618) 526-9611	PLOT DATE =	CHECKED - B	3GH	REVISED -		SHEET 2 OF 31 SHEETS		ILLINOIS FED.	AID PROJECT
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GENERAL NOTES

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SCOPE OF WORK

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4.

Fasteners shall be ASTM F3125, Grade 325, Type 1, High Strength, Hot Dipped Galvanized Bolts ${}^{3}_{4}$ '' ϕ , holes ${}^{15}_{16}$ '' ϕ , unless otherwise noted.

Calculated weight of Structural Steel = 12,700 lbs. (M 270, Grade 36) = 168,780 lbs. (M 270, Grade 50)

Structural Steel shall be galvanized in accordance with the Special Provisions. 4. No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

7. 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.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of ${}^{l}_{B}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Concrete Sealer shall be applied to the designated areas of the abutments & piers.

10. Slipforming of the parapets is not allowed.

11. The finishing machine rails shall be placed on the top flange of the exterior beams.

Remove and replace existing deck and PPC I-beams with a composite WF-steel beam and reinforced concrete deck superstructure.

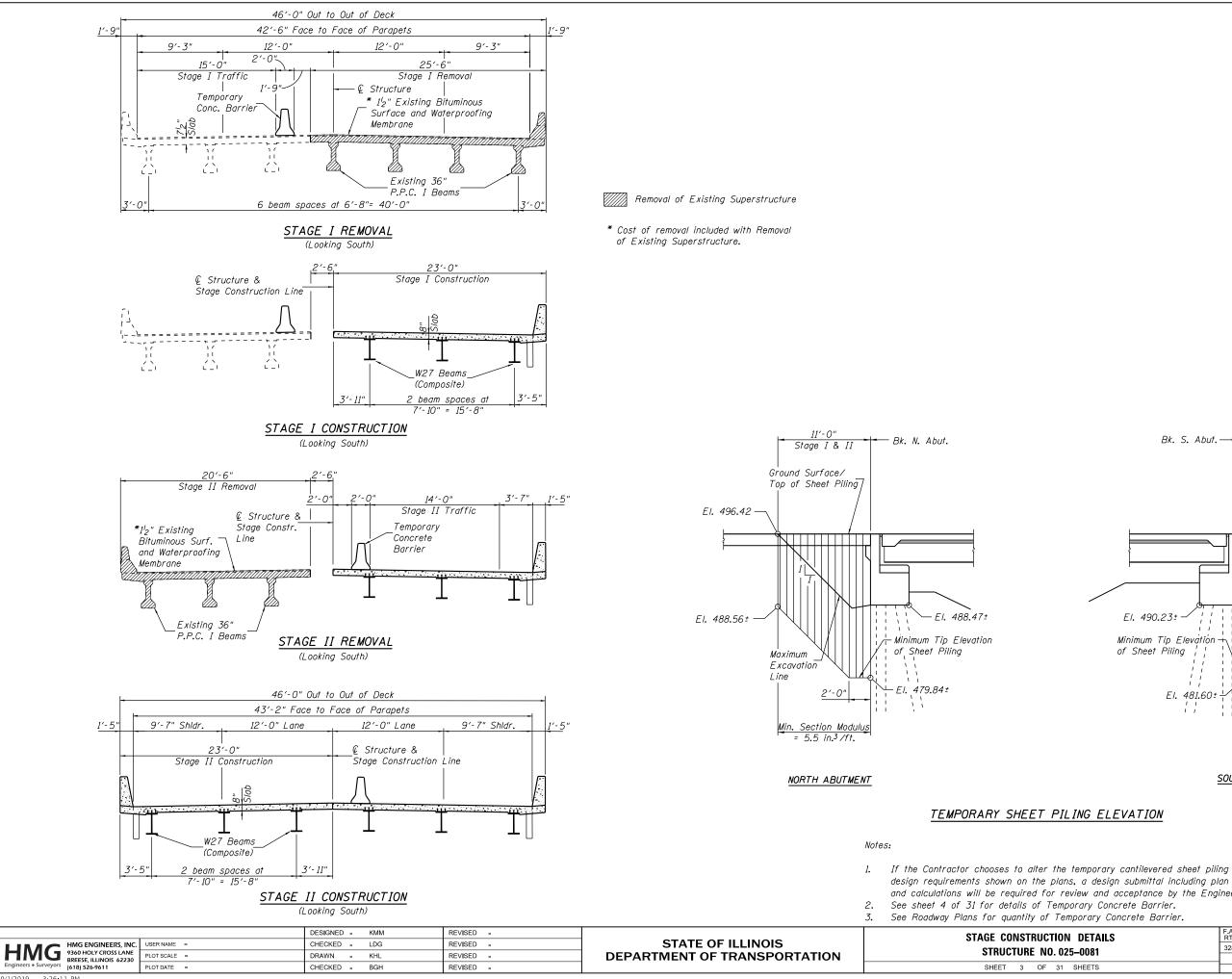
2. Remove and replace existing fixed and expansion bearings.

3. Reconfigure concrete beam seats on abutment and pier caps as indicated on drawings.

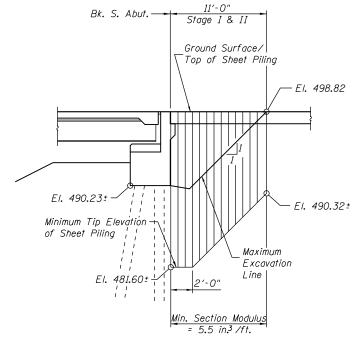
Remove and replace existing backwalls and wingwalls (saving piling, pile caps and noted vertical reinforcement) to accommodate a new Bridge Approach Slab and barrier configuration.

5. Remove existing bridge approach pavement and shoulder, as shown, and replace with the new Bridge Approach Slab configuration.

6. Repair areas indicated on drawings with Structural Repair Of Concrete.



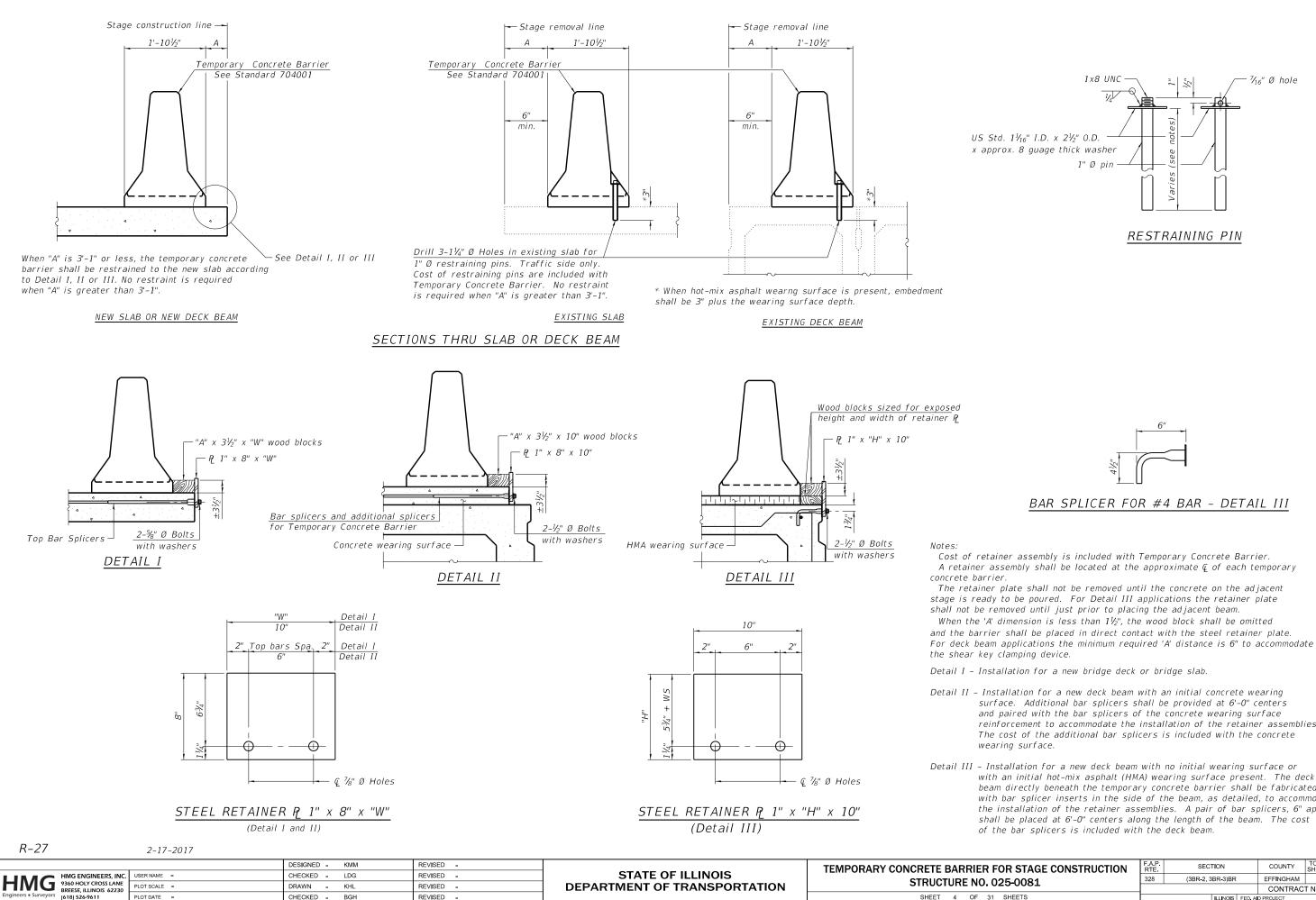
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SOUTH ABUTMENT

design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

ION DETAILS . 025–0081		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		328 (3BR-2, 3BR-3)BR		93	52
			CONTRACT NO. 74859		
31 SHEETS	ILLINOIS FED. AID PROJECT				

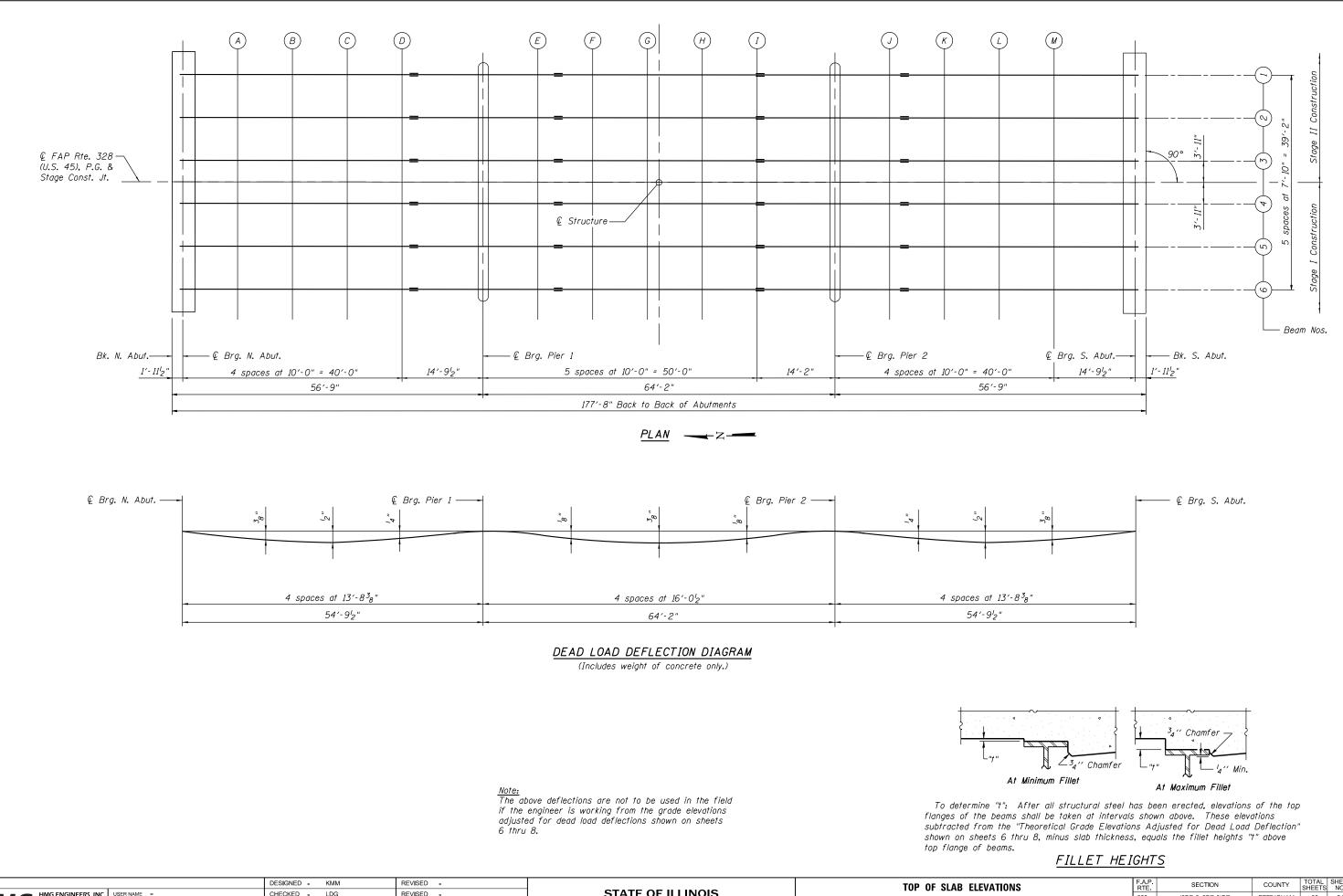


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reinforcement to accommodate the installation of the retainer assemblies.

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,

R FOR STAGE CONSTRUCTION		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
025-0081		(3BR-2, 3BR-3)BR		EFFINGHAM	93	53		
025-0081					CONTRACT NO. 74859			
31 SHEETS	ILLINOIS FED. AID PROJECT							



efat H			DESIGNED - KMM	REVISED -		TOP OF SLAB ELEVATIONS	F.A.P. BTE	SECTION	COUNTY	TOTAL SHEET
AME :	HMG ENGINEERS, INC.	USER NAME =	CHECKED - LDG	REVISED -	STATE OF ILLINOIS		328	(3BR-2, 3BR-3)BR	EFFINGHAM	93 54
DEL	HMG 9360 HOLY CROSS LANE BREESE ILLINOIS 62230	PLOT SCALE =	DRAWN - KHL	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 025–0081		(,,,,,	CONTRACT	F NO. 74859
MOI	Engineers • Surveyors (618) 526-9611	PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 5 OF 31 SHEETS		ILLINOIS FED. A	D PROJECT	

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		BEAM	#1	
Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	639+47.27	-19.58	496.15	496.15
∉ Brg. N. Abut.	639+49.23	-19.58	496.17	496.17
A B C D	639+59.23 639+69.23 639+79.23 639+89.23	-19.58 -19.58 -19.58 -19.58	496.24 496.31 496.40 496.49	496.26 496.35 496.43 496.51
∉ Brg. Pier 1	640+04.02	-19.58	496.63	496.63
E F G H I	640+14.02 640+24.02 640+34.02 640+44.02 640+54.02	-19.58 -19.58 -19.58 -19.58 -19.58 -19.58	496.73 496.84 496.95 497.08 497.20	496.74 496.86 496.98 497.10 497.22
∉ Brg. Pier 2	640+68.19	-19.58	497.39	497.39
J K L M	640+78.19 640+88.19 640+98.19 641+08.19	-19.58 -19.58 -19.58 -19.58	497.53 497.68 497.83 497.99	497.55 497.71 497.87 498.02
∉ Brg. S. Abut.	641+22.98	-19.58	498.23	498.23
Bk. S. Abut.	641+24.94	-19.58	498.27	498.27

		BEAM	#2	
Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	639+47.27	-11.75	496.31	496.31
€ Brg. N. Abut.	639+49.23	-11.75	496.33	496.33
A B C D	639+59.23 639+69.23 639+79.23 639+89.23	-11.75 -11.75 -11.75 -11.75	496.40 496.48 496.56 496.65	496.42 496.51 496.60 496.67
© Brg. Pier 1	640+04.02	-11.75	496.79	496.79
E F G H I	640+14.02 640+24.02 640+34.02 640+44.02 640+54.02	-11.75 -11.75 -11.75 -11.75 -11.75 -11.75	496.89 497.00 497.12 497.24 497.36	496.90 497.02 497.15 497.26 497.38
⊈ Brg. Pier 2	640+68.19	-11.75	497.55	497.55
J K L M	640+78.19 640+88.19 640+98.19 641+08.19	-11.75 -11.75 -11.75 -11.75	497.69 497.84 497.99 498.15	497.71 497.87 498.03 498.18
∉ Brg. S. Abut.	641+22.98	-11.75	498.40	498.40
Bk. S. Abut.	641+24.94	-11.75	498.43	498.43

<u>Notes:</u> 1. Elevations are at Top of Concrete. 2. See Sheet 5 for elevation locations.

	DESIGNED - KMM	REVISED -		TOP OF SLAB ELEVATIONS	FAP SE	CTION	COUNTY TOTAL SHEET SHEETS NO.
	CHECKED - LDG	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 025-0081	328 (3BR-2,	, 3BR-3)BR	EFFINGHAM 93 55
	DRAWN - KHL	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRACT NO. 74859
Set Engineers • Surveyors (618) 526-9611 PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 6 OF 31 SHEETS		ILLINOIS FED. A	ID PROJECT

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		BEAM	#3			¢ ROADWA	AY, P.G. A	AND STAG	E C
Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection		Location	Station	Offset from Ctrline	Th El
Bk. N. Abut.	639+47.27	-3.92	496.44	496.44	Ē	Bk. N. Abut.	639+47.27	0.00	
€ Brg. N. Abut.	639+49.23	-3.92	496.45	496.45		€ Brg. N. Abut.	639+49.23	0.00	
A	639+59.23	-3.92	496.52	496.55		А	639+59.23	0.00	
B	639+69.23	-3.92	496.60	496.64		B	639+69.23 639+79.23	0.00	
D	639+79.23	-3.92	496.68	496.72		ι		0.00	
D	639+89.23	-3.92	496.77	496.79		D	639+89.23	0.00	
∉ Brg. Pier 1	640+04.02	-3.92	496.91	496.91		@ Brg. Pier 1	640+04.02	0.00	
E	640+14.02	-3.92	497.02	497.02		E	640+14.02	0.00	
F	640+24.02	-3.92	497.12	497.15		F	640+24.02	0.00	
G	640+34.02	-3.92	497.24	497.27		G	640+34.02	0.00	
Н	640+44.02	-3.92	497.36	497.39		Н	640+44.02	0.00	
Ι	640+54.02	-3.92	497.49	497.50		Ι	640+54.02	0.00	
∉ Brg. Pier 2	640+68.19	-3.92	497.68	497.68		€ Brg. Pier 2	640+68.19	0.00	
J	640+78.19	-3.92	497.82	497.83		J	640+78.19	0.00	
ĸ	640+88.19	-3.92	497.96	497.99		ĸ	640+88.19	0.00	
L	640+98.19	-3.92	498.12	498.16		L	640+98.19	0.00	
М	641+08.19	-3.92	498.27	498.31		М	641+08.19	0.00	
∉ Brg. S. Abut.	641+22.98	-3.92	498.52	498.52		€ Brg. S. Abut.	641+22.98	0.00	
Bk. S. Abut.	641+24.94	-3.92	498.55	498.55		Bk. S. Abut.	641+24.94	0.00	

BEAM #4

r	-			
Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	639+47.27	3.92	496.44	496.44
∉ Brg. N. Abut.	639+49.23	3.92	496.45	496.45
A B C D	639+59.23 639+69.23 639+79.23 639+89.23	3.92 3.92 3.92 3.92 3.92	496.52 496.60 496.68 496.77	496.55 496.64 496.72 496.79
∉ Brg. Pier 1	640+04.02	3.92	496.91	496.91
E F G H I	640+14.02 640+24.02 640+34.02 640+44.02 640+54.02	3.92 3.92 3.92 3.92 3.92 3.92	497.02 497.12 497.24 497.36 497.49	497.02 497.15 497.27 497.39 497.50
⊈ Brg. Pier 2	640+68.19	3.92	497.68	497.68
J K L M	640+78.19 640+88.19 640+98.19 641+08.19	3.92 3.92 3.92 3.92 3.92	497.82 497.96 498.12 498.27	497.83 497.99 498.16 498.31
∉ Brg. S. Abut.	641+22.98	3.92	498.52	498.52
Bk. S. Abut.	641+24.94	3.92	498.55	498.55

Notes:

1. Elevations are at Top of Concrete. 2. See Sheet 5 for elevation locations.

H: H:		DESIGNED - KMM	REVISED -		TOP OF SLAB ELEVATIONS	F A P. RTE	SECTION	COUNTY TOTA	L SHEET
	USER NAME =	CHECKED - LDG	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 025–0081	328 (31	BR-2, 3BR-3)BR	EFFINGHAM 93	56
HMG 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230	PLOT SCALE =	DRAWN - KHL	REVISED -	DEPARTMENT OF TRANSPORTATION	51RUGTURE NU. 023-0081		· · · · · · · · · · · · · · · · · · ·	CONTRACT NO.	74859
O 그 Engineers • Surveyors (618) 526-9611	PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 7 OF 31 SHEETS		ILLINOIS FED. /	AID PROJECT	

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CONSTRUC	TION LINE
Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
496.50	496.50
496.51	496.51
496.58 496.66 496.74 496.83	496.61 496.70 496.78 496.85
496.97	496.97
497.08 497.19 497.30 497.42 497.55	497.08 497.21 497.33 497.45 497.56
497.74	497.74
497.88 498.02 498.18 498.33 498.58 498.61	497.89 498.06 498.22 498.37 498.58 498.61

		BEAM	#5	
Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	639+47.27	11.75	496.31	496.31
∉ Brg. N. Abut.	639+49.23	11.75	496.33	496.33
A B C D	639+59.23 639+69.23 639+79.23 639+89.23	11.75 11.75 11.75 11.75 11.75	496.40 496.48 496.56 496.65	496.42 496.51 496.60 496.67
∉ Brg. Pier 1	640+04.02	11.75	496.79	496.79
E F G H I	640+14.02 640+24.02 640+34.02 640+44.02 640+54.02	11.75 11.75 11.75 11.75 11.75 11.75	496.89 497.00 497.12 497.24 497.36	496.90 497.02 497.15 497.26 497.38
∉ Brg. Pier 2	640+68.19	11.75	497.55	497.55
J K L M	640+78.19 640+88.19 640+98.19 641+08.19	11.75 11.75 11.75 11.75	497.69 497.84 497.99 498.15	497.71 497.87 498.03 498.18
∉ Brg. S. Abut.	641+22.98	11.75	498.40	498.40
Bk. S. Abut.	641+24.94	11.75	498.43	498.43

		BEAM	#6	
Location	Station	Offset from Ctrline	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflection
Bk. N. Abut.	639+47.27	19.58	496.15	496.15
€ Brg. N. Abut.	639+49.23	19.58	496.17	496.17
A B C D	639+59.23 639+69.23 639+79.23 639+89.23	19.58 19.58 19.58 19.58 19.58	496.24 496.31 496.40 496.49	496.26 496.35 496.43 496.51
∉ Brg. Pier 1	640+04.02	19.58	496.63	496.63
E F G H I	640+14.02 640+24.02 640+34.02 640+44.02 640+54.02	19.58 19.58 19.58 19.58 19.58 19.58	496.73 496.84 496.95 497.08 497.20	496.74 496.86 496.98 497.10 497.22
© Brg. Pier 2	640+68.19	19.58	497.39	497.39
J K L M	640+78.19 640+88.19 640+98.19 641+08.19	19.58 19.58 19.58 19.58 19.58	497.53 497.68 497.83 497.99	497.55 497.71 497.87 498.02
∉ Brg. S. Abut.	641+22.98	19.58	498.23	498.23
Bk. S. Abut.	641+24.94	19.58	498.27	498.27

<u>Notes:</u> 1. Elevations are at Top of Concrete. 2. See Sheet 5 for elevation locations.

	DESIGNED - KMM	REVISED -		TOP OF SLAB ELEVATIONS	F.A.P. SECTION	COUNTY TOTAL SHEET SHEETS NO.
	CHECKED - LDG	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 025–0081	328 (3BR-2, 3BR-3)BR	EFFINGHAM 93 57
HING 2360 HOLY CROSS LANE PLOT SCALE = PLOT SCALE = PLOT SCALE = PLOT SCALE = PLOT SCALE =	DRAWN - KHL CHECKED - BGH	REVISED -	DEPARTMENT OF TRANSPORTATION	SHEET 8 OF 31 SHEETS		CONTRACT NO. 74859
	SHEGHED - BOH				ILLINOIS FED.	AID PROJECT

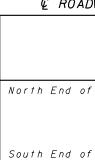
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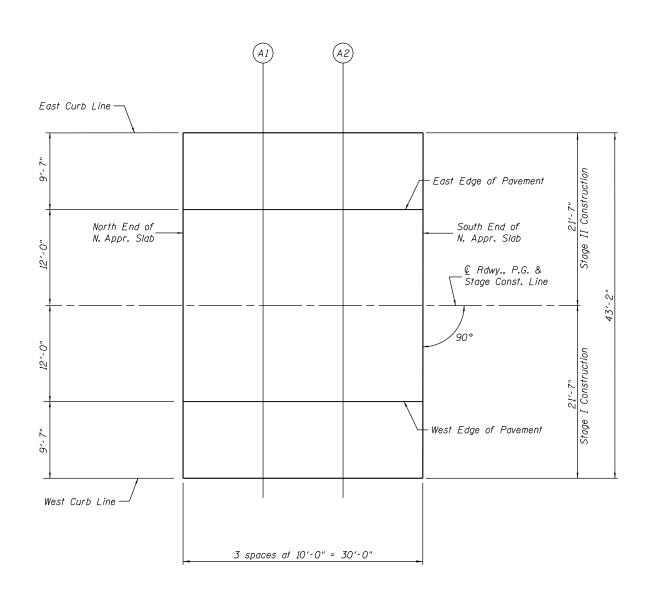
6

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
North End of N. Appr. Slab	639+17.27	-21.58	495.93
A1 A2	639+27.27 639+37.27	-21.58 -21.58	495.99 496.05
South End of N. Appr. Slab	639+47.27	-21.58	496.11

EAST EDGE OF PAVEMENT					
Location	Station	Offset	Theoretical Grade Elevations		
North End of N. Appr. Slab	639+17.27	-12.00	496.13		
A1 A2	639+27.27 639+37.27	-12.00 -12.00	496.19 496.25		
South End of N. Appr. Slab	639+47.27	-12.00	496.31		





Location	Station	Offset	Theoretical Grade Elevations
North End of N. Appr. Slab	639+17.27	12.00	496.13
AI A2	639+27.27 639+37.27	12.00 12.00	496.19 496.25
South End of N. Appr. Slab	639+47.27	12.00	496.31

Location	Station	Offset	Theoretical Grade Elevations
North End of N. Appr. Slab	639+17.27	21.58	495.93
A1 A2	639+27.27 639+37.27	21.58 21.58	495.99 496.05
South End of N. Appr. Slab	639+47.27	21.58	496.11

HMG ENGINEERS, 3360 HOLY CROSS LO BREESE, LINIOSI 62 BREESE, LINIOSI 62	NC. USER NAME =	DESIGNED - KMM CHECKED - LDG DRAWN - KHL	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF NORTH APPROACH SLAB ELEVATIONS STRUCTURE NO. 025–0081	F.A.P. RTE. SECTION 328 (3BR-2, 3BR-3)BR	COUNTY TOTAL SHEETS SHEET NO. EFFINGHAM 93 58 CONTRACT NO. 74859
Engineers • Surveyors (618) 526-9611 10/1/2019 3:31:25 PM	PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 9 OF 31 SHEETS	ILLINOIS FE	

Location	Station	Offset	Theoretical Grade Elevations
f N. Appr. Slab	639+17.27	0.00	496.32
A1 A2	639+27.27 639+37.27	0.00 0.00	496.37 496.43
f N. Appr. Slab	639+47.27	0.00	496.50

€ ROADWAY, P.G. & STAGE CONSTRUCTION LINE

WEST EDGE OF PAVEMENT

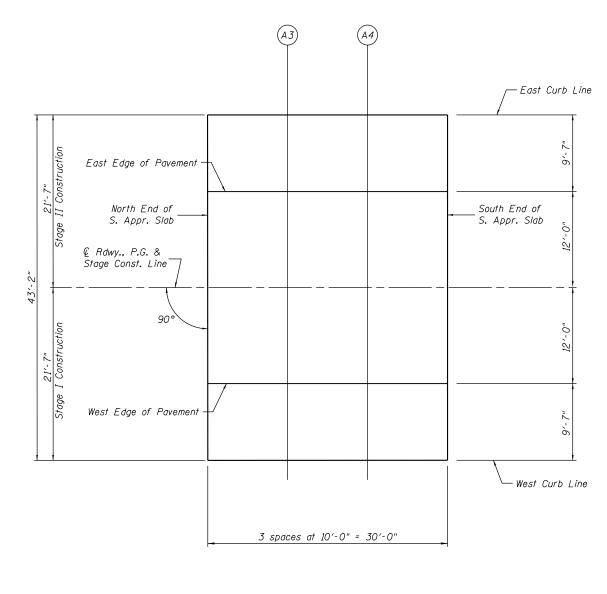
WEST CURB LINE

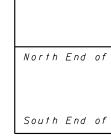
EAST CURB LINE

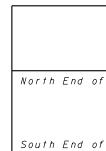
Location	Station	Offset	Theoretical Grade Elevations
North End of S. Appr. Slab	641+24.94	-21.58	498.23
A3 A4	641+34.94 641+44.94	-21.58 -21.58	498.40 498.58
South End of S. Appr. Slab	641+54.94	-21.58	498.76

EAST EDGE OF PAVEMENT					
Location	Station	Offset	Theoretical Grade Elevations		
North End of S. Appr. Slab	641+24.94	-12.00	498.43		
A3 A4	641+34.94 641+44.94	-12.00 -12.00	498.60 498.78		
South End of S. Appr. Slab	641+54.94	-12.00	498.96		

V RUADWAT, P.G. & S	LINE		
Location	Station	Offset	Theoretical Grade Elevations
North End of S. Appr. Slab	641+24.94	0.00	498.61
A3 A4	641+34.94 641+44.94	0.00 0.00	498.79 498.97
South End of S. Appr. Slab	641+54.94	0.00	499.15







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efat		DESIGNED - KMM	REVISED -		TOP OF SOUTH APPROACH SLAB ELEVATIONS		SECTION	COUNTY TOTAL SHEET
AME	LINAC HMG ENGINEERS, INC. USER NAME =	CHECKED - LDG	REVISED -	STATE OF ILLINOIS			(3BR-2, 3BR-3)BR	EFFINGHAM 93 59
DEL	HMG ENGINEERS, INC. USER NAME = 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230 PLOT SCALE =	DRAWN - KHL	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 025–0081			CONTRACT NO. 74859
P II	Engineers • Surveyors (618) 526-9611 PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 10 OF 31 SHEETS		ILLINOIS FED.). AID PROJECT
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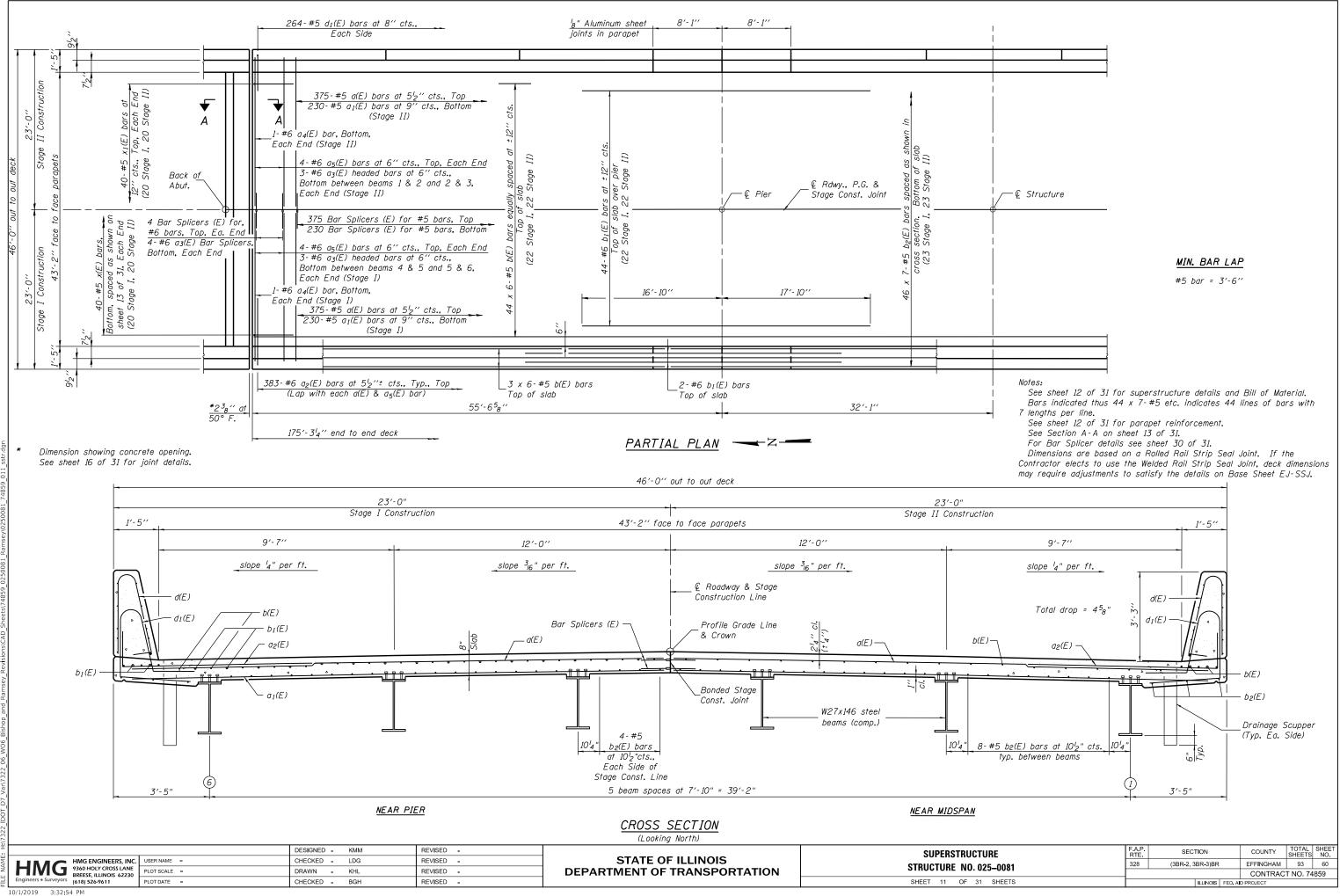
© ROADWAY, P.G. & STAGE CONSTRUCTION LINE

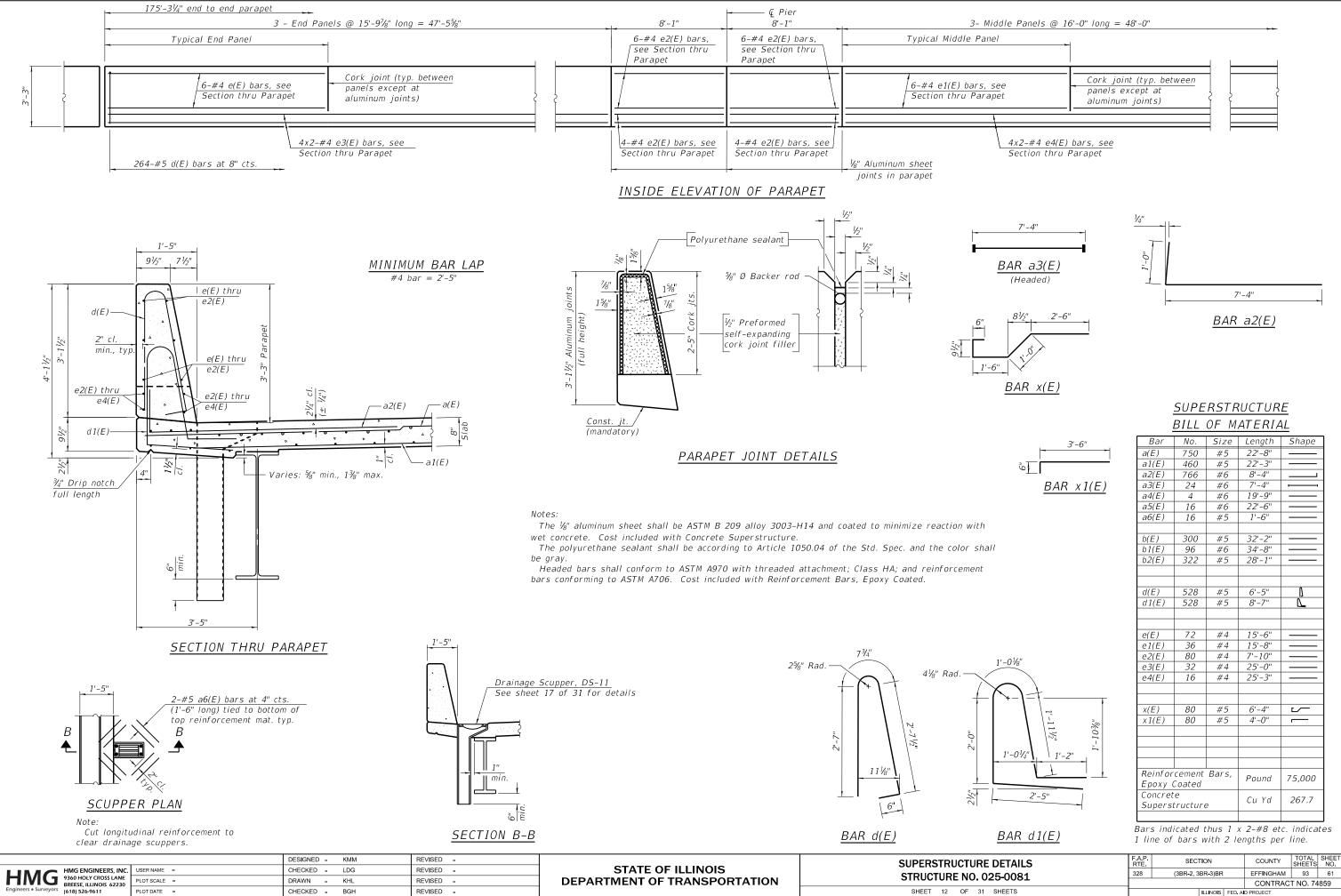
WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
f S. Appr. Slab	641+24.94	12.00	498.43
A3 A4	641+34.94 641+44.94	12.00 12.00	498.60 498.78
f S. Appr. Slab	641+54.94	12.00	498.96

WEST CURB LINE

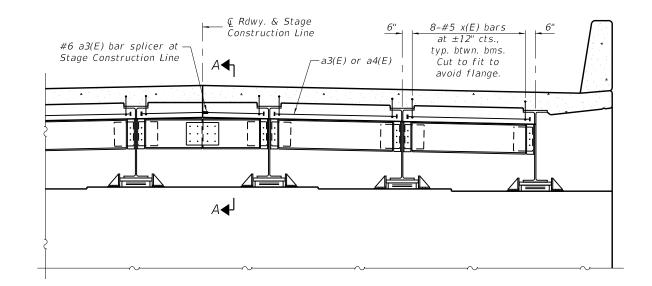
Location	Station	Offset	Theoretical Grade Elevations
of S. Appr. Slab	641+24.94	21.58	498.23
A3 A4	641+34.94 641+44.94	21.58 21.58	498.40 498.58
of S. Appr. Slab	641+54.94	21.58	498.76



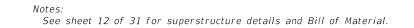


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RE DETAILS		SECTION	ON		COUNTY	TOTAL SHEETS	SHEET NO.
. 025-0081		(3BR-2, 3BR-3)BR		EFFINGHAM	93	61	
020-0001					CONTRAC	T NO. 74	859
31 SHEETS		IL	LLINOIS	FED. AI	D PROJECT		

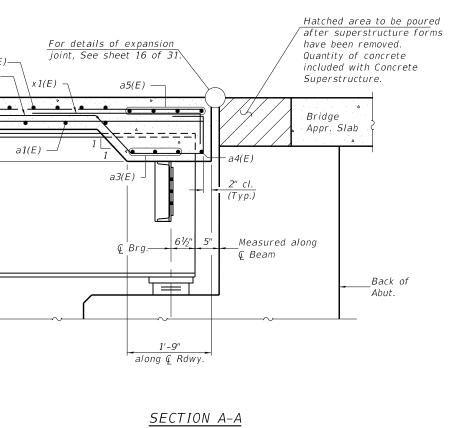


DIAPHRAGM AT ABUTMENT





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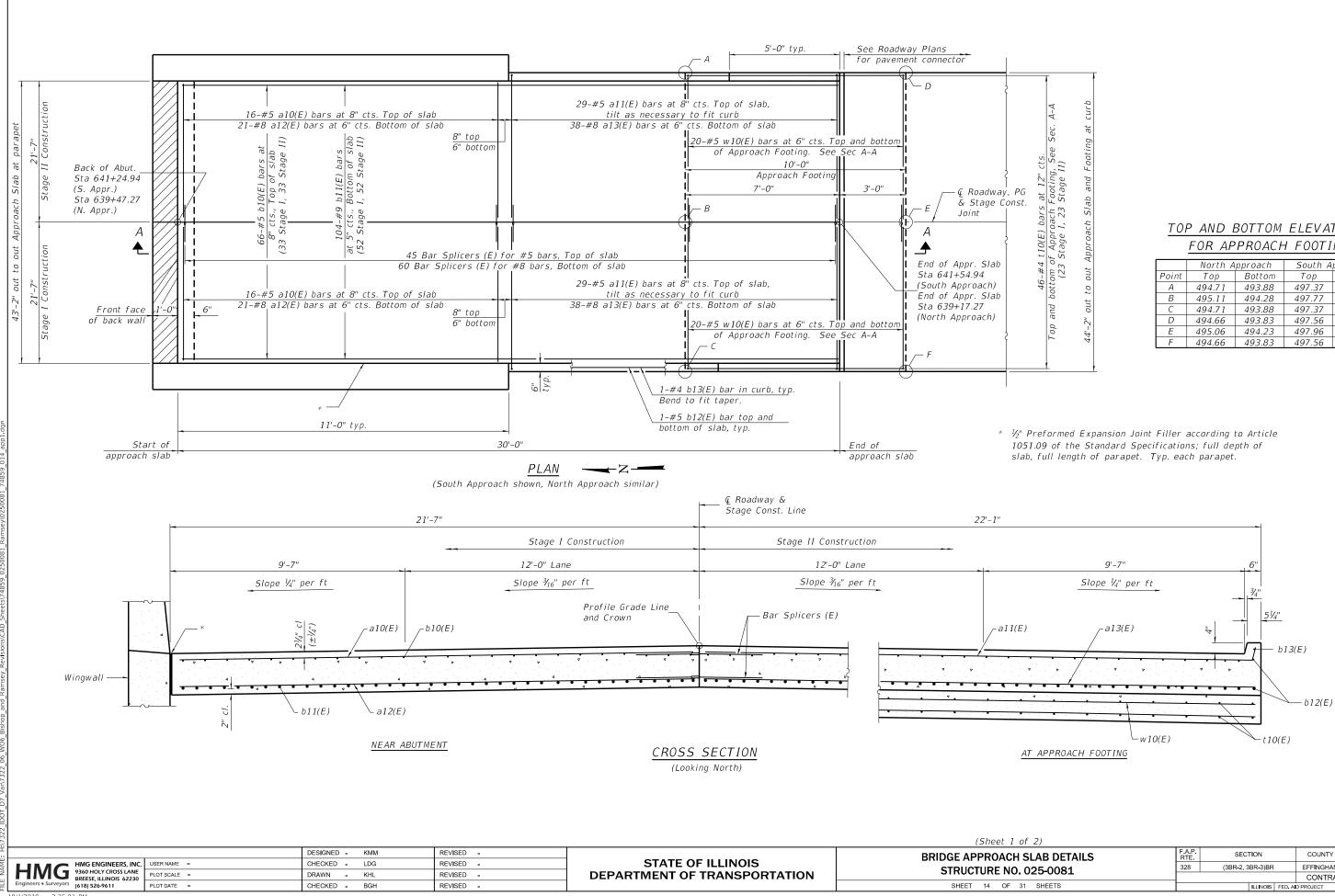
a(E)—

x1(E) -

a1(E) —

x(E)-

DETAILS 025-0081 31 SHEETS		SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
		(3BR-2, 3BR-3)BR		EFFINGHAM	93	62	
		•			CONTRAC	T NO. 74	859
			ILLINOIS	FED. A	D PROJECT		

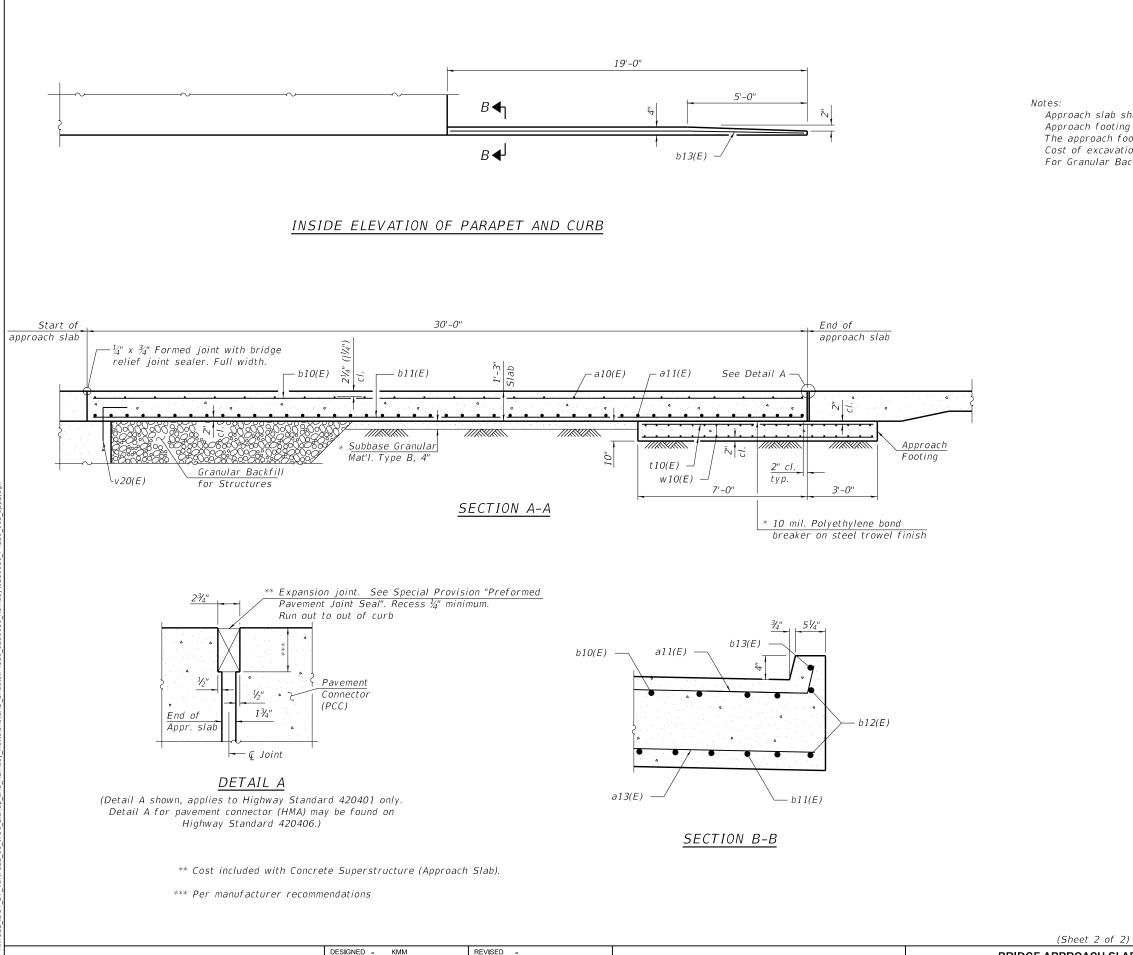


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TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

	North Approach		South A	pproach
Point	Тор	Bottom	Тор	Bottom
Α	494.71	493.88	497.37	496.54
В	495.11	494.28	497.77	496.94
С	494.71	493.88	497.37	496.54
D	494.66	493.83	497.56	496.73
Ε	495.06	494.23	497.96	497.13
F	494.66	493.83	497.56	496.73

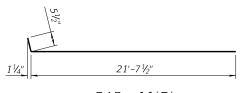
of 2)							
SLAB DETAILS		F.A.P. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
025-0081	328	(3BR-2, 3BR-3)BR			EFFINGHAM	93	63
.025-0081					CONTRAC	T NO. 74	859
31 SHEETS			ILLINOIS	FED. A	D PROJECT		



4 S L						(Sheet 2 of 2)		
E H		-	DESIGNED - KMM	REVISED -		BRIDGE APPROACH SLAB DETAILS	F.A.P. SECTION	COUNTY TOTAL SHEET
0. ¥	HMG ENGINEERS, INC.	USER NAME =	CHECKED - LDG	REVISED -	STATE OF ILLINOIS		328 (3BR-2, 3BR-3)BR	EFEINGHAM 93 64
DEL	HMG ENGINEERS, INC. 9360 HOLY CROSS LANE BREESE II LINOIS 62230	PLOT SCALE =	DRAWN - KHL	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 025-0081		CONTRACT NO. 74859
FILE	Engineers • Surveyors (618) 526-9611	PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 15 OF 31 SHEETS	ILLINOIS FED. A	D PROJECT

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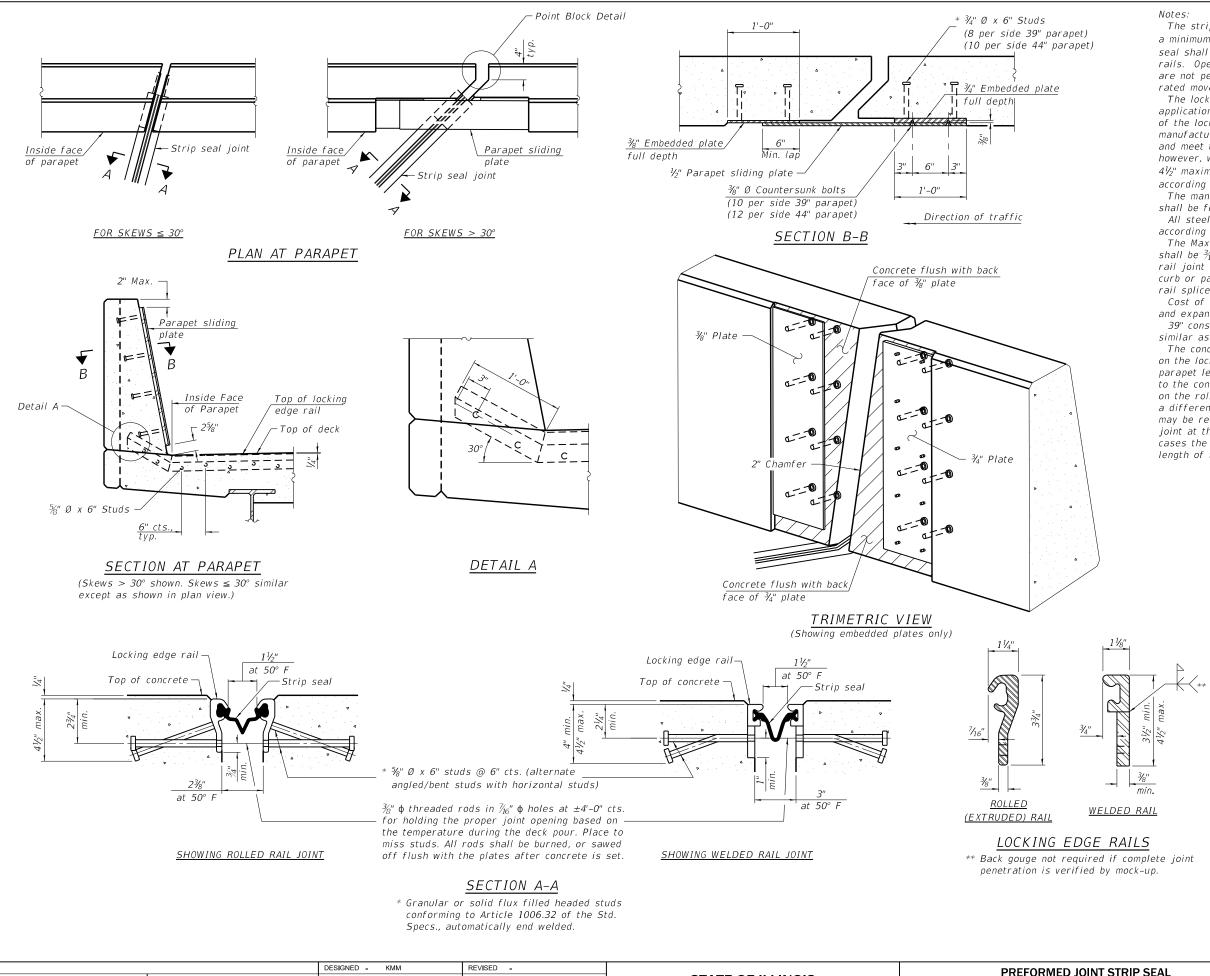
Approach slab shall be paid for as Concrete Superstructure (Approach Slab). Approach footing concrete shall be paid for as Concrete Structures. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf. Cost of excavation for approach footing included with Concrete Structures. For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 31.



<u>BAR a11(E)</u>

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	64	#5	21'-3"	
a11(E)	116	#5	22'-1"	
a12(E)	88	#8	21'-3"	
a13(E)	152	#8	21'-9"	
b10(E)	132	#5	29'-8''	
b11(E)	208	#9	29'-8''	
b12(E)	8	#5	18'-8''	
b13(E)	4	#4	18'-8''	
t10(E)	184	#4	9'-8"	
w10(E)	160	#5	21'-9"	
Concrete	Superstr	ucture	Cu Vd	122.0
(Approach	(Approach Slab)		Cu Yd	122.0
Concrete		es	Cu Yd	27.3
Reinforce	ment Bar	ŝ,	Dound	10.000
Ероху Со	ated		Pound	48,000



Ŧ			DESIGNED - KMM	REVISED -		PREFORMED JOINT STRIP SEAL	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEET
MA I	HMG ENGINEERS, INC.	USER NAME =	CHECKED - LDG	REVISED -	STATE OF ILLINOIS		328	(3BR-2, 3BR-3)BR	EFFINGHAM	93 65
Ž	BREESE, ILLINOIS 62230	PLOT SCALE =	DRAWN - KHL	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 025-0081		(CONTRACT	T NO. 74859
Engir	neers • Surveyors (618) 526-9611	PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 16 OF 31 SHEETS		ILLINOIS FED.	AID PROJECT	
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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 $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

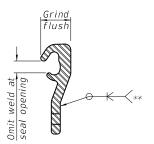
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " 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, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal. 39" constant slope barrier shown, 44" constant slope barrier

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.

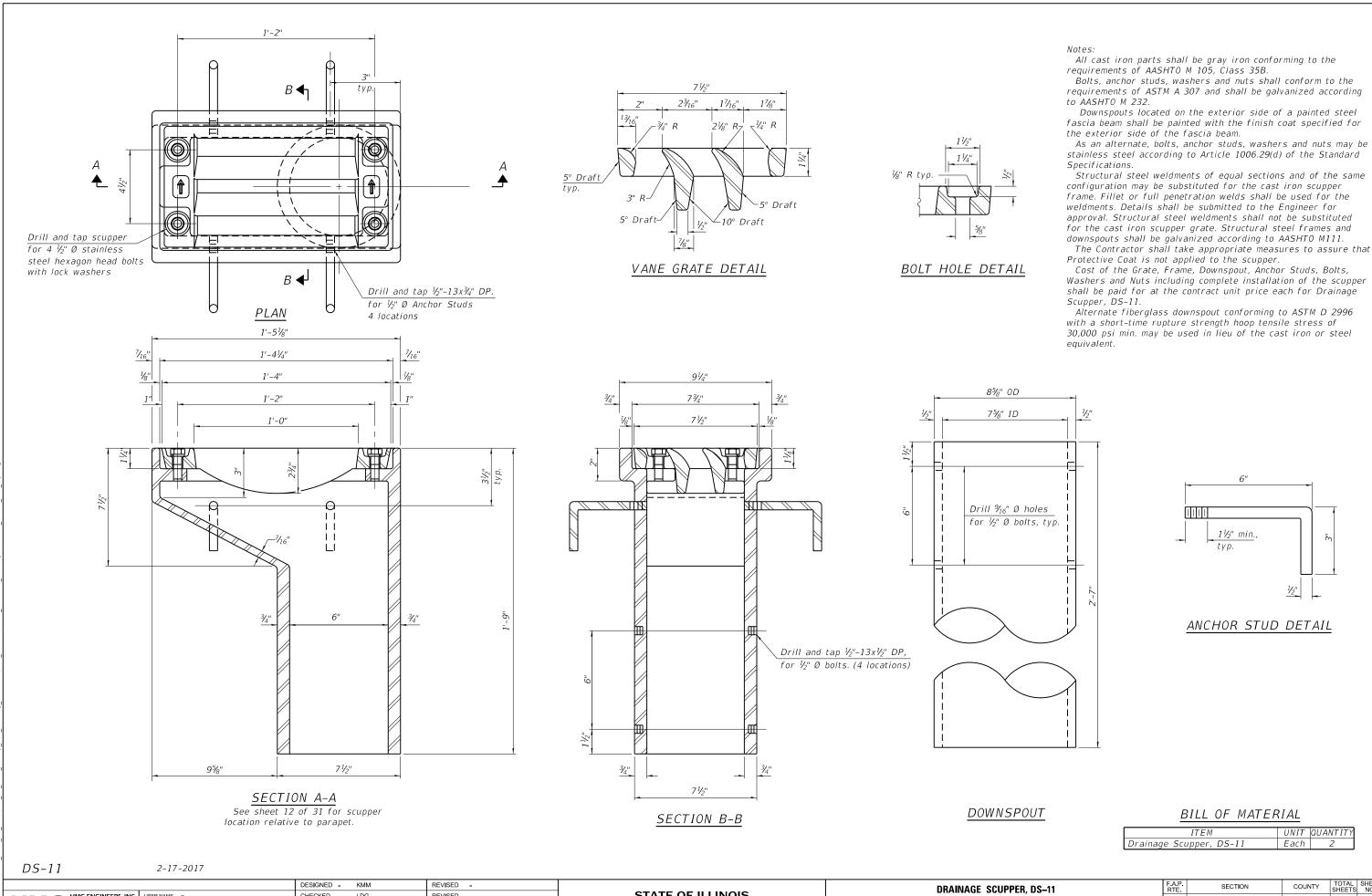


LOCKING EDGE RAIL SPLICE

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

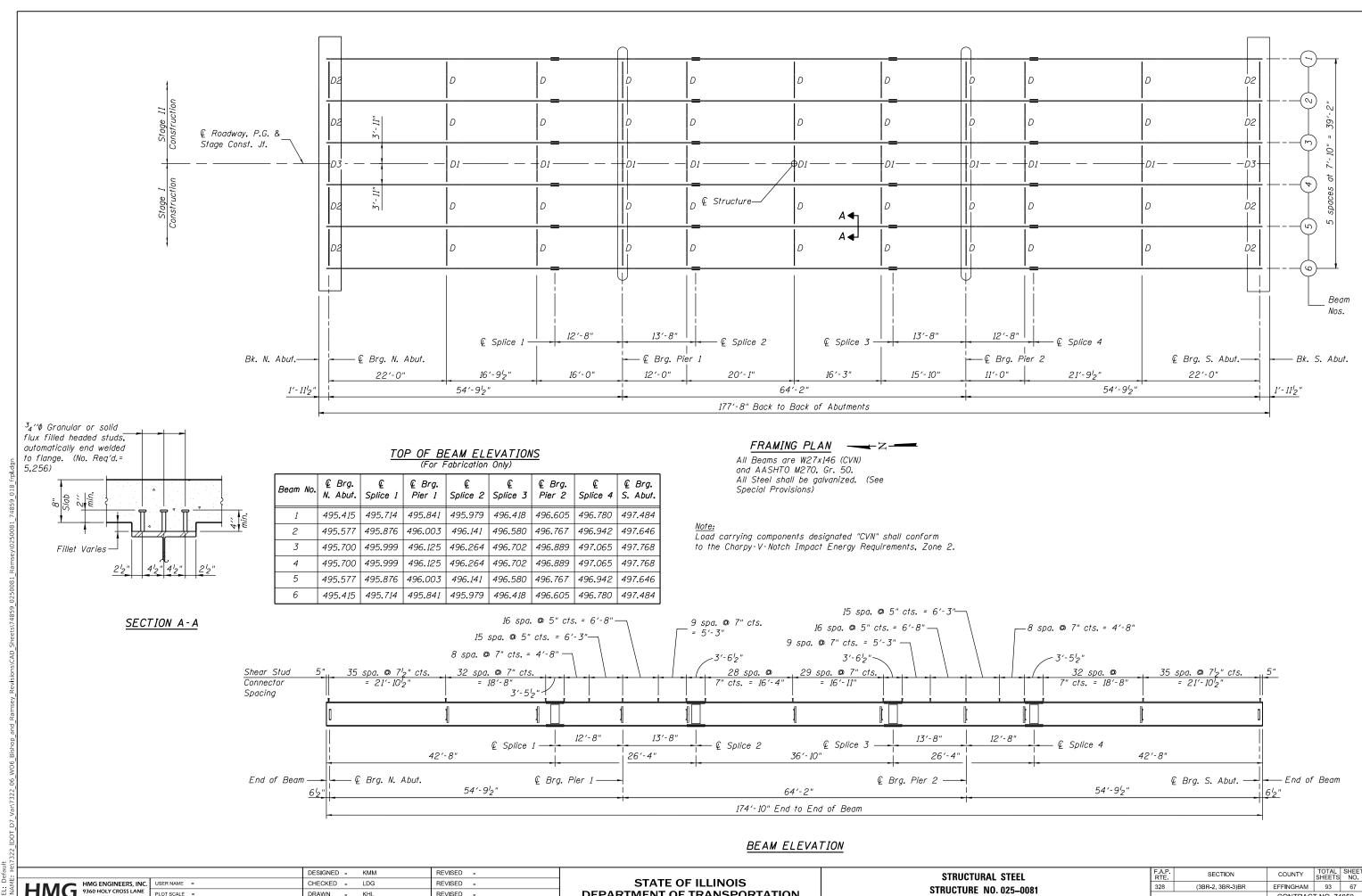
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Item	Unit	Total
Preformed Joint Strip Seal	Foot	91



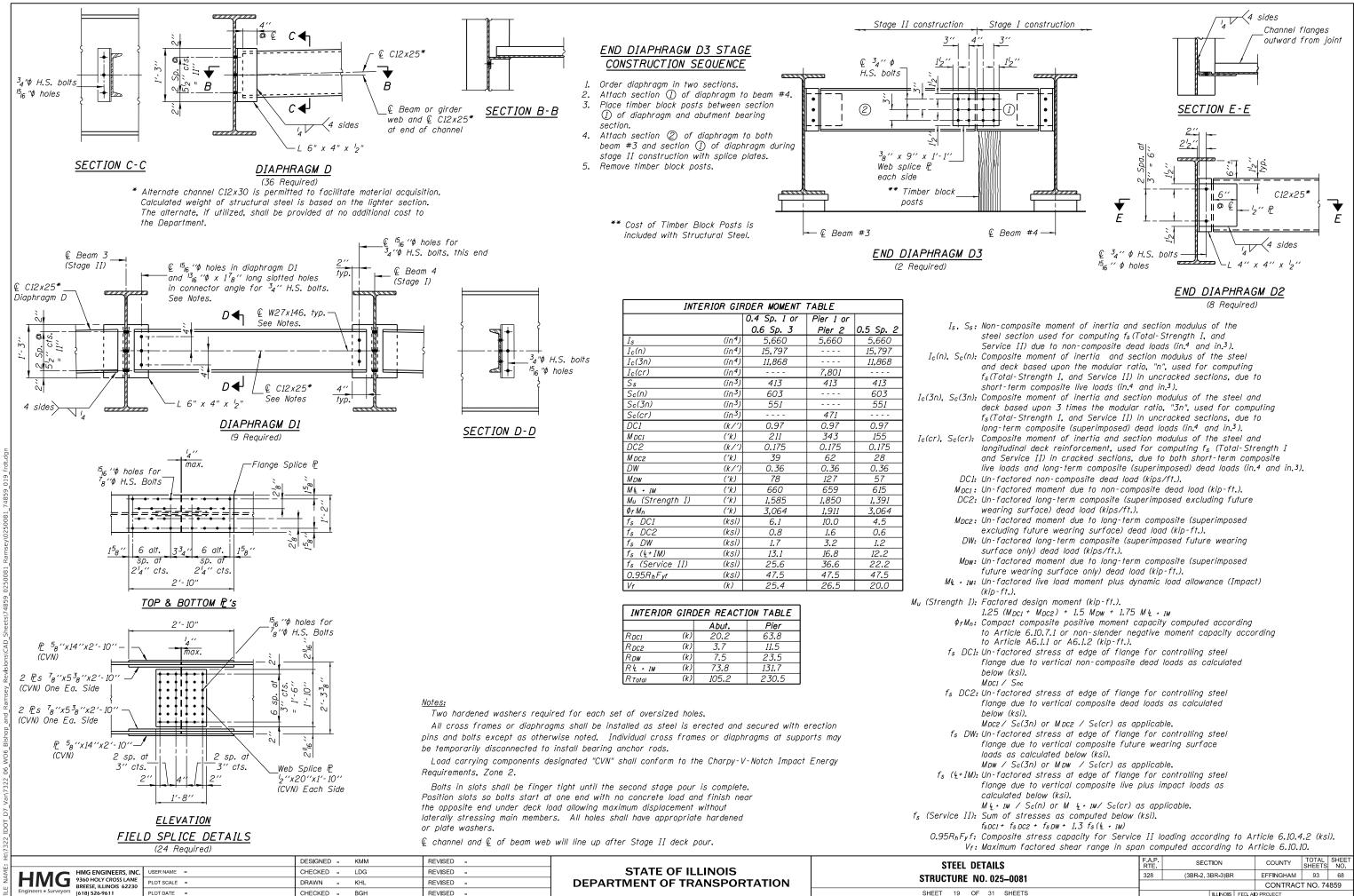
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н на		DESIGNED - KMM	REVISED -		DRAINAGE SCUPPER, DS-11		SECTION	COUNTY	TOTAL SHEET
HIMG ENGINEERS, INC. 9300 HOLY CROSS LANE BREESE, ILLINOIS 62230 (618) 526-9611	USER NAME =	CHECKED - LDG	REVISED -	STATE OF ILLINOIS		328	(3BR-2, 3BR-3)BR	EFFINGHAM	93 66
	PLOT SCALE =	DRAWN - KHL	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 025–0081			CONTRAC	T NO. 74859
	PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 17 OF 31 SHEETS	ILLINOIS FED. AID PROJECT			
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Washers and Nuts including complete installation of the scupper

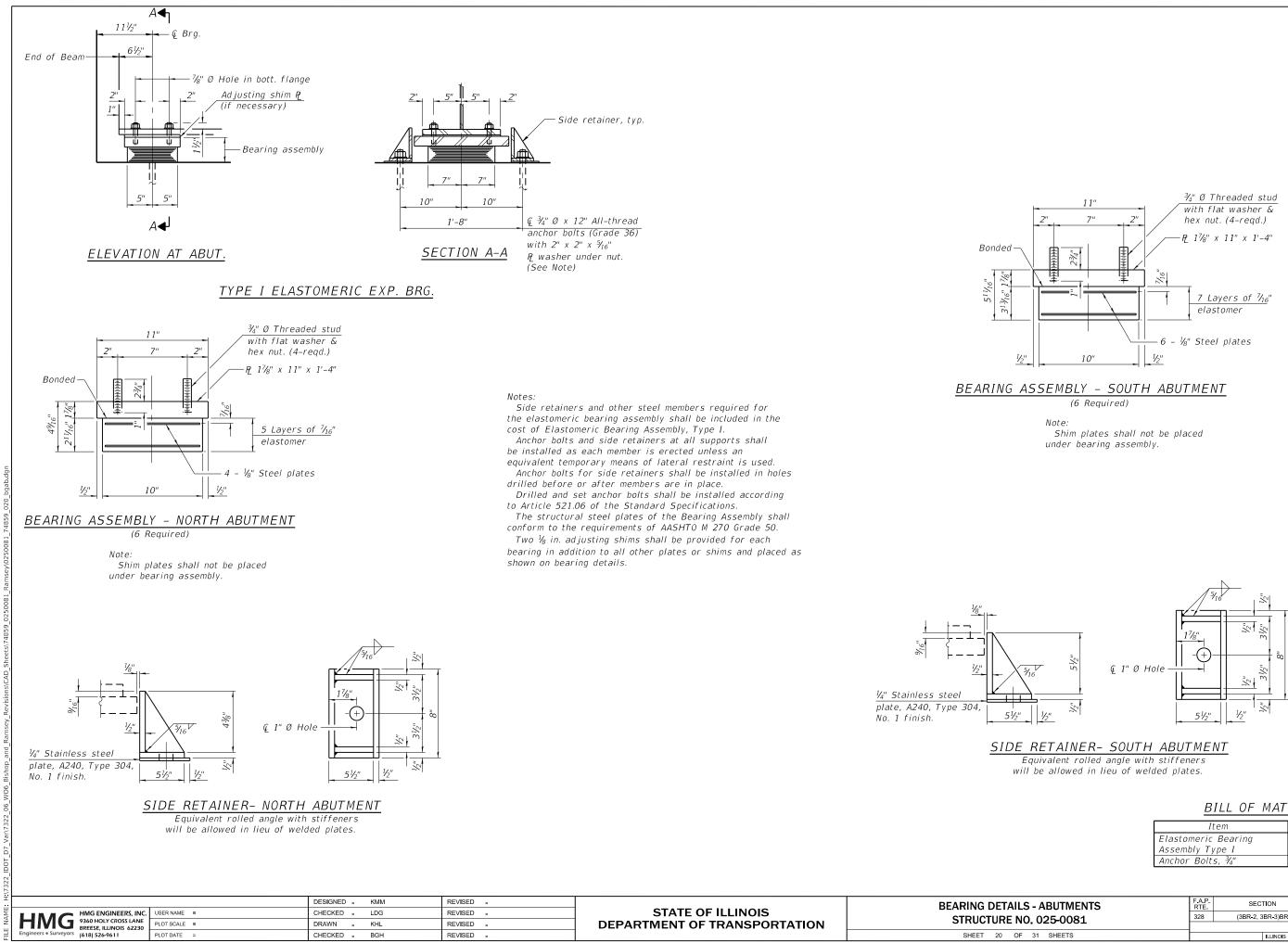


efaul			DESIGNED - KMM	REVISED -		STRUCTURAL STEEL	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEET
L: D IAME	HMG ENGINEERS, INC. 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230 (18) 526-9611	USER NAME =	CHECKED - LDG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 025–0081	328	(3BR-2, 3BR-3)BR	EFFINGHAM	93 67
10DE		PLOT SCALE = PLOT DATE =	DRAWN - KHL CHECKED - BGH	REVISED -		SHEET 18 OF 31 SHEETS	CONTRACT NO. 74859			
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F.A.P. RTE	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
328	(3BR-2, 3BR-3)BR			EFFINGHAM	93	68
			CONTRACT NO. 74859			
	ILLINOIS	FED. A	ID PROJECT			
AILS 025–0081 31 SHEETS		RTE. SEC	RTE. SECTION 328 (3BR-2, 3BR-3)BR	RTE. SECTION 328 (3BR-2, 3BR-3)BR	RTE. SECTION COUNTY 328 (3BR-2, 3BR-3)BR EFFINGHAM CONTRAC	RTE. SECTION COUNTY SHEETS 328 (3BR-2, 3BR-3)BR EFFINGHAM 93 CONTRACT NO. 74



DEPARTMENT OF TRANSPORTATION

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DRAWN - KHL

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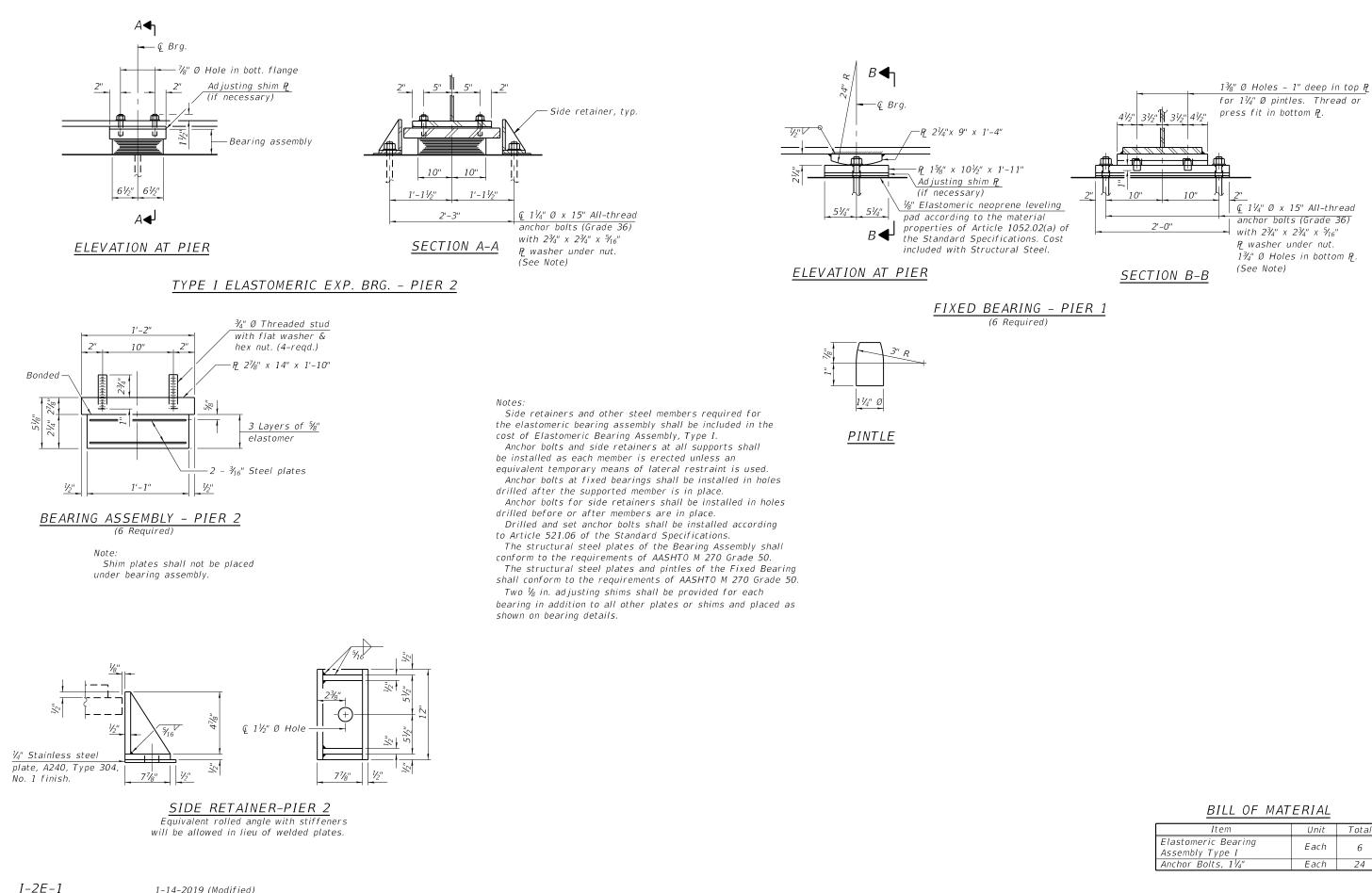
REVISED -

REVISED -

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12
Anchor Bolts, ¾"	Each	24

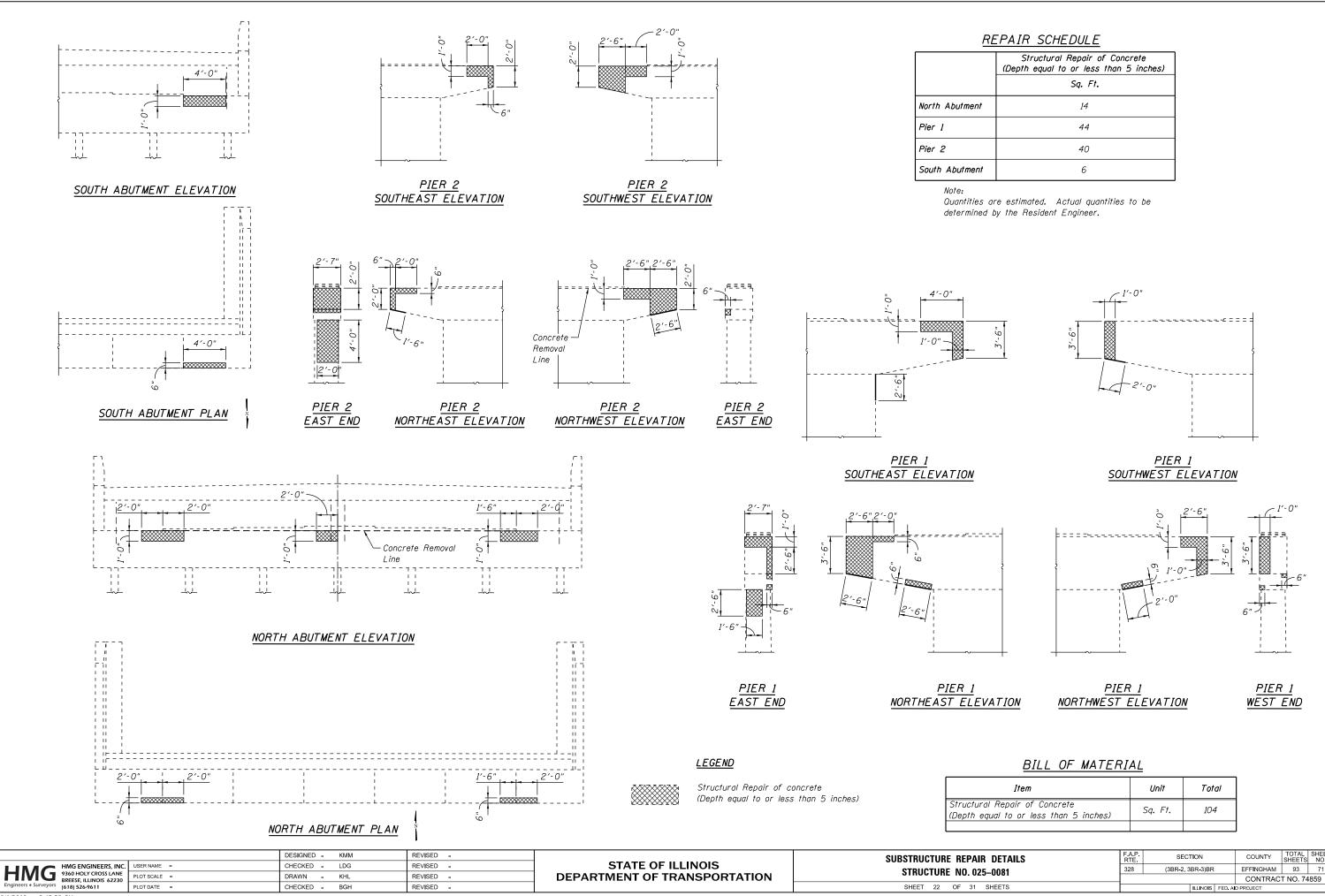
- ABUTMENTS 0. 025-0081		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		(3BR-2, 3BR-3)BR			EFFINGHAM	93	69
					CONTRAC	T NO. 74	859
31 SHEETS	ILLINOIS FED.			FED. A	D PROJECT		



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Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	6
Anchor Bolts, 1¼"	Each	24

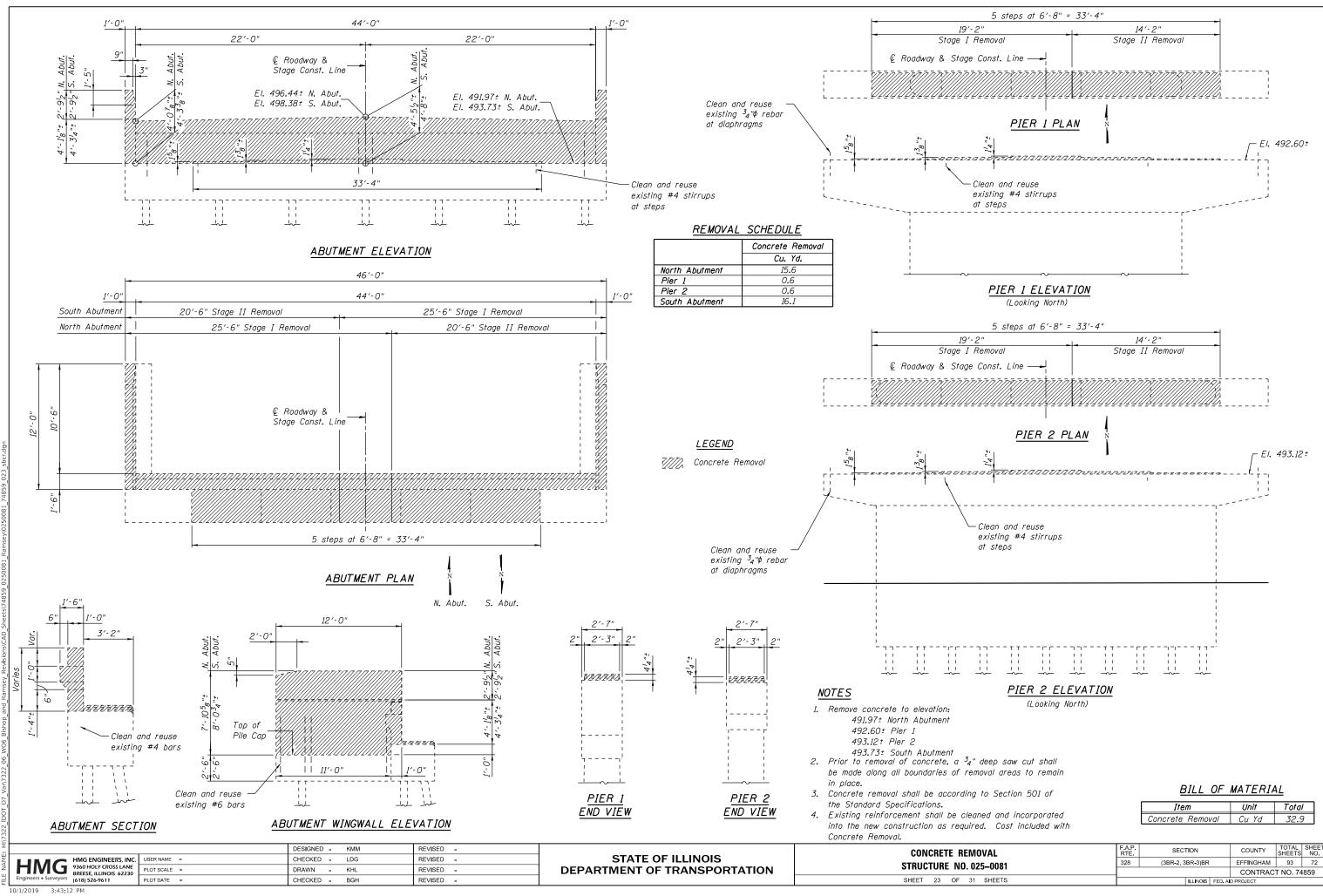
ILS - PIERS 0. 025-0081		SEC	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
		(3BR-2, 3BR-3)BR			EFFINGHAM	93	70
					CONTRAC	T NO. 74	859
31 SHEETS	ILLINOIS FED.			FED. A	D PROJECT		

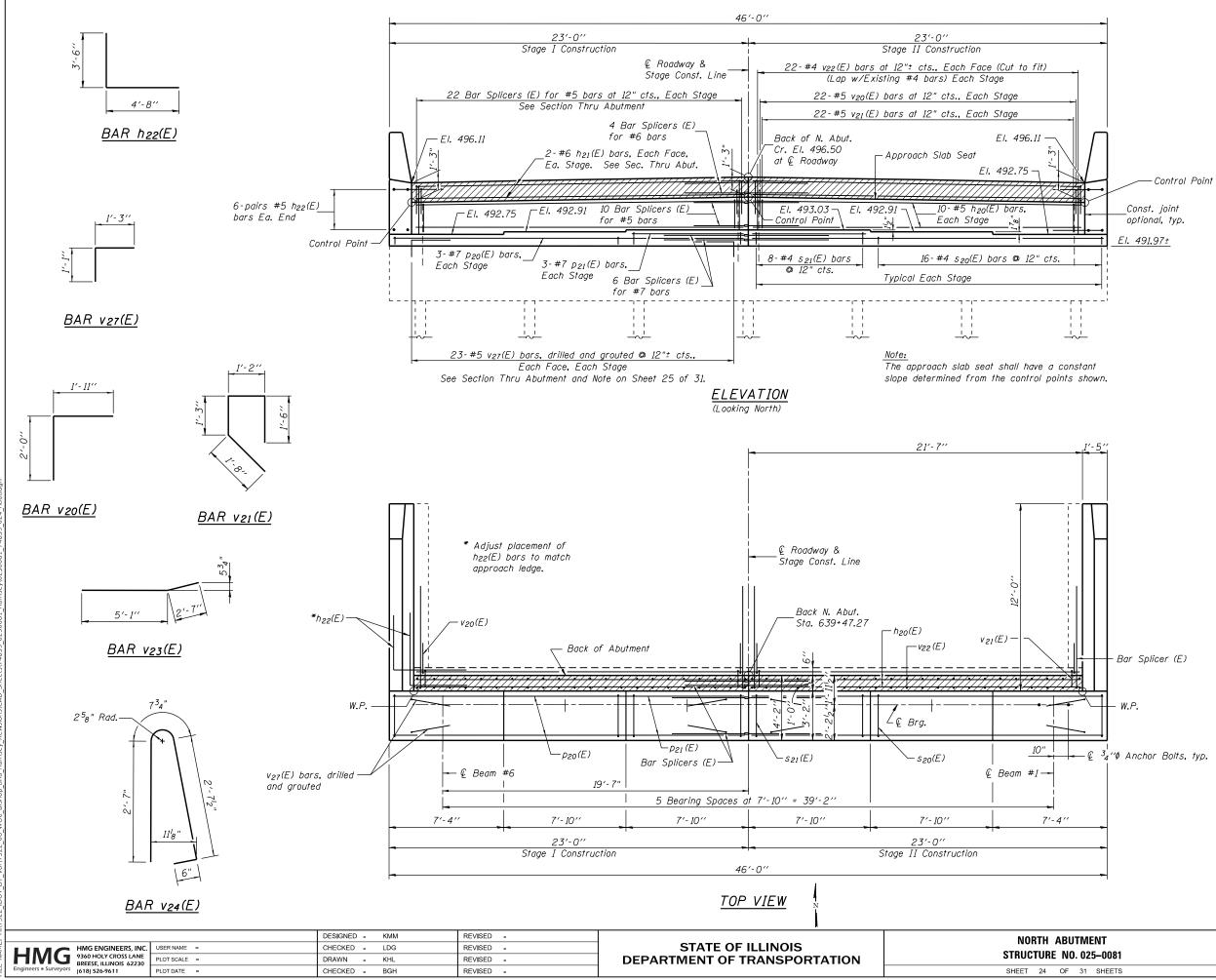


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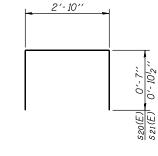
	Structural Repair of Concrete (Depth equal to or less than 5 inches)							
	Sq. Ft.							
ent	14							
	44							
	40							
nent	6							

PAIR DETAILS .025–0081		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		(3BR-2, 3BR-3)BR			EFFINGHAM	93	71
					CONTRAC	T NO. 74	859
31 SHEETS			ILLINOIS	FED. A	D PROJECT		





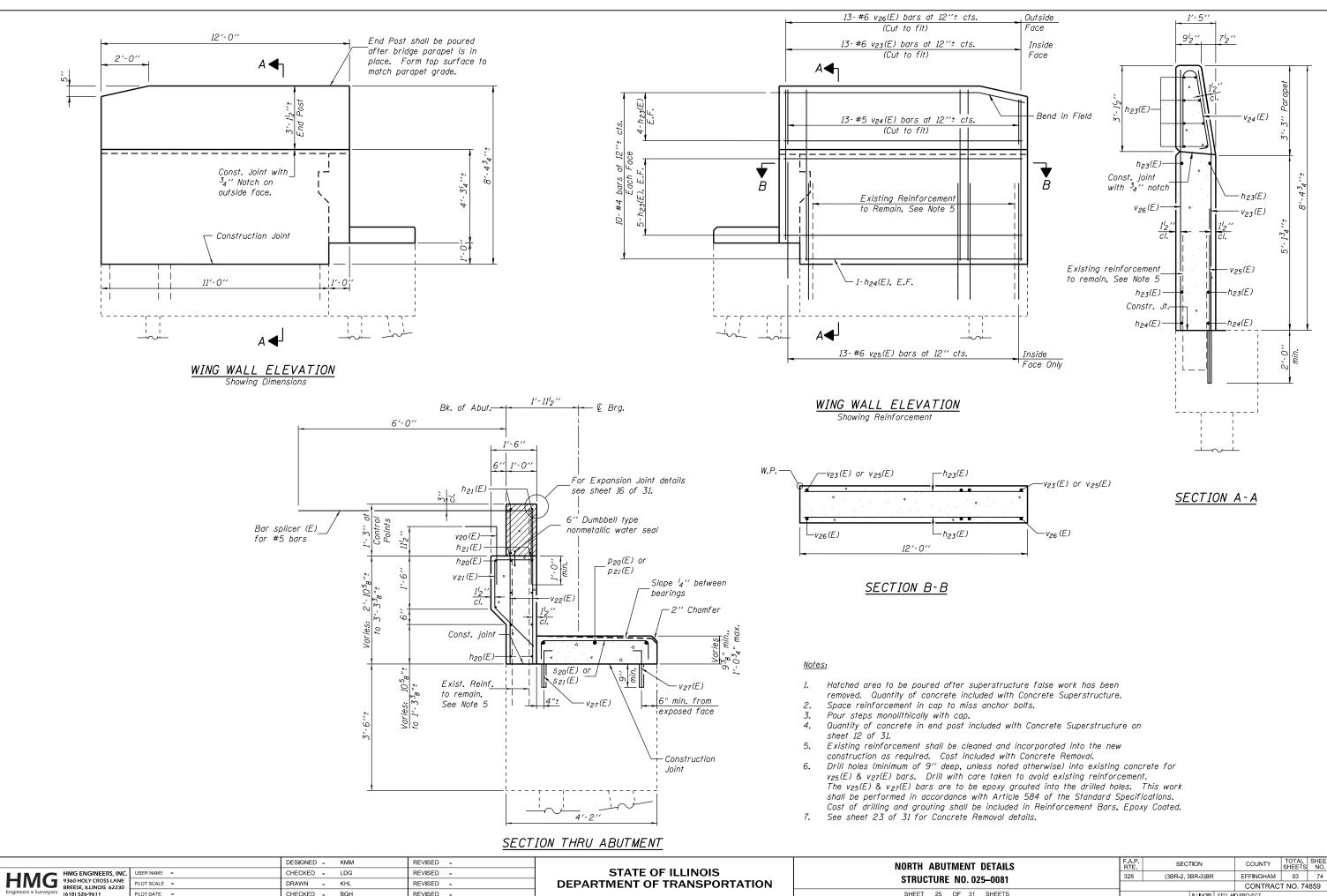
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BARS \$20(E) & \$21(E)

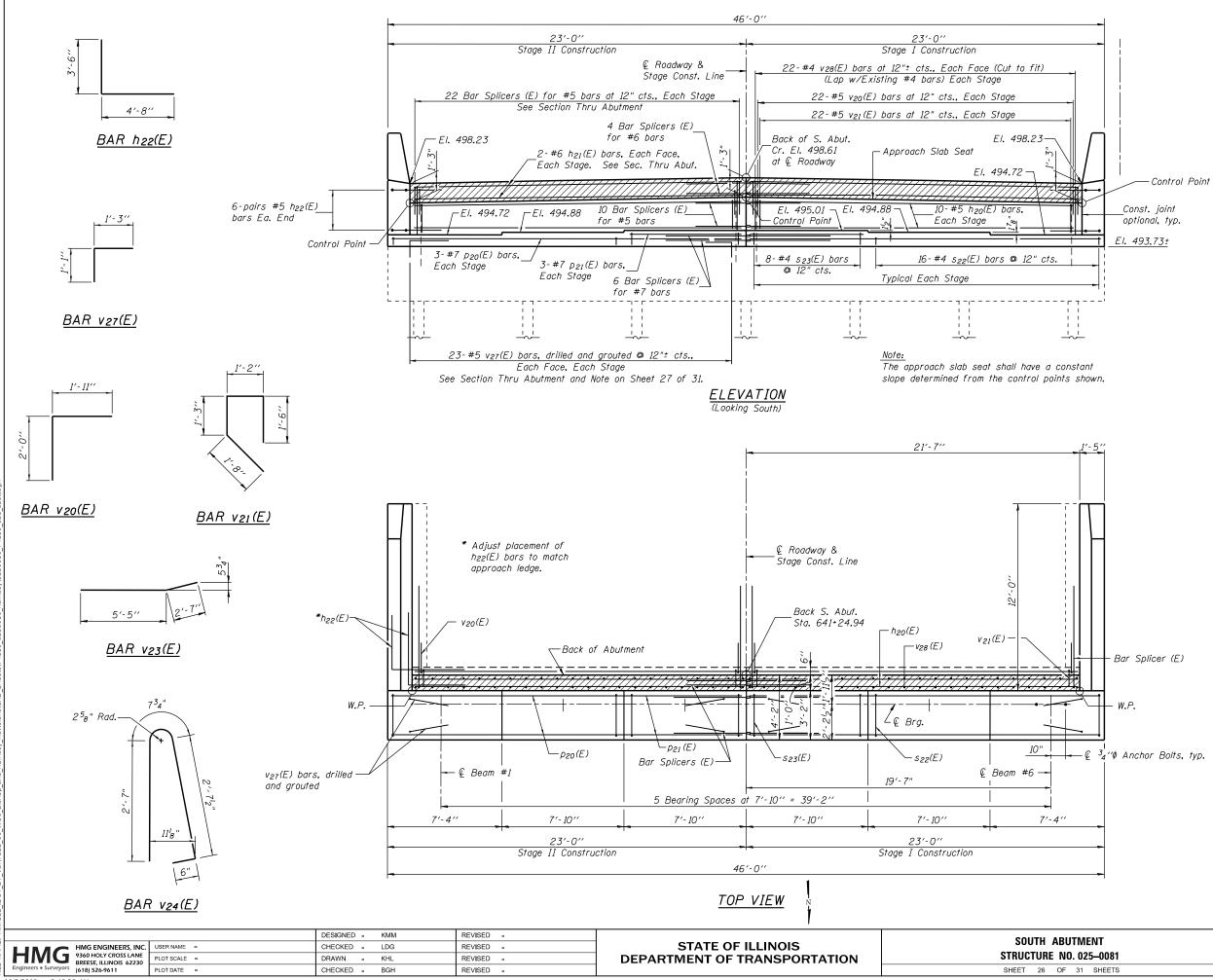
1'-5''						
	Ĺ	-		BUTMER MATER		
	Bar	No.	Size	Length	<u>IAL</u> Shape	7
	h 20(E)	20	#5	21'-4''		-
114	h21(E)	8	#6	21'-4''		-1
	h22(E)	24	#5	8'-2''		-
	h23(E)	36	#4	11'-9''		-1
	h24(E)	4	#4	10'-9''		-1
	P20(E)	6	#7	22'-9''	·	-
	<i>Р21(E)</i>	6	#7	7'-7''		-
	(5)				_	_
	520(E)	32	#4	4'-0'' 4'-7''		_
	s21(E)	16	#4	4'-7''		_
Bar Splicer (E)	V20(E)	44	#5	3'-11''	<u>г</u>	-
	V20(E) V21(E)	44	#5	5'-7''	<u>ר</u>	-
<u>д Ц</u>	V22(E)	88	#4	4'-5''	<u> </u>	-1
→ w. <i>P</i> .	V23(E)	26	#6	7'-8''		-
<i>w.</i> , .	V24(E)	26	#5	6'-5''	Λ	
	V25(E)	26	#6	6'-0''		-1
<u> </u>	v26(E)	26	#6	8′-1′′		-
$- \mathcal{Q} \stackrel{I}{3_4} \phi$ Anchor Bolts, typ.	V27(E)	92	#5	2'-4''	Г	
						_
	Concrete			Cu Yd	17.9	_
	Reinford Epoxy C		Bars,	Pound	3,670	
	Structur		wation	Cu Yd	71	-
	Concrete			Sa Ft	346	-
				Splicers		
	sheet 30		01 100	Spricers	, 500	
			rete Se	aler to a	ll exposed	t surfaces
	of backwo	alls, bri	idge sed	nts and fi	ront faces	s of
-1	pile caps.					
					l be clear	
	incorporat Cost inclu					required.
MENT	F.A.P. BTE		SECTION		COUNTY	TOTAL SHEE

IMENT 025–0081		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		(3BR-2, 3BR-3)BR			EFFINGHAM	93	73
					CONTRAC	T NO. 74	859
31 SHEETS	ILLINOIS FED.			FED. A	D PROJECT		

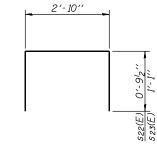


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SHEET 25 OF 31 SHEETS ILLINOIS FED AID PROJEC



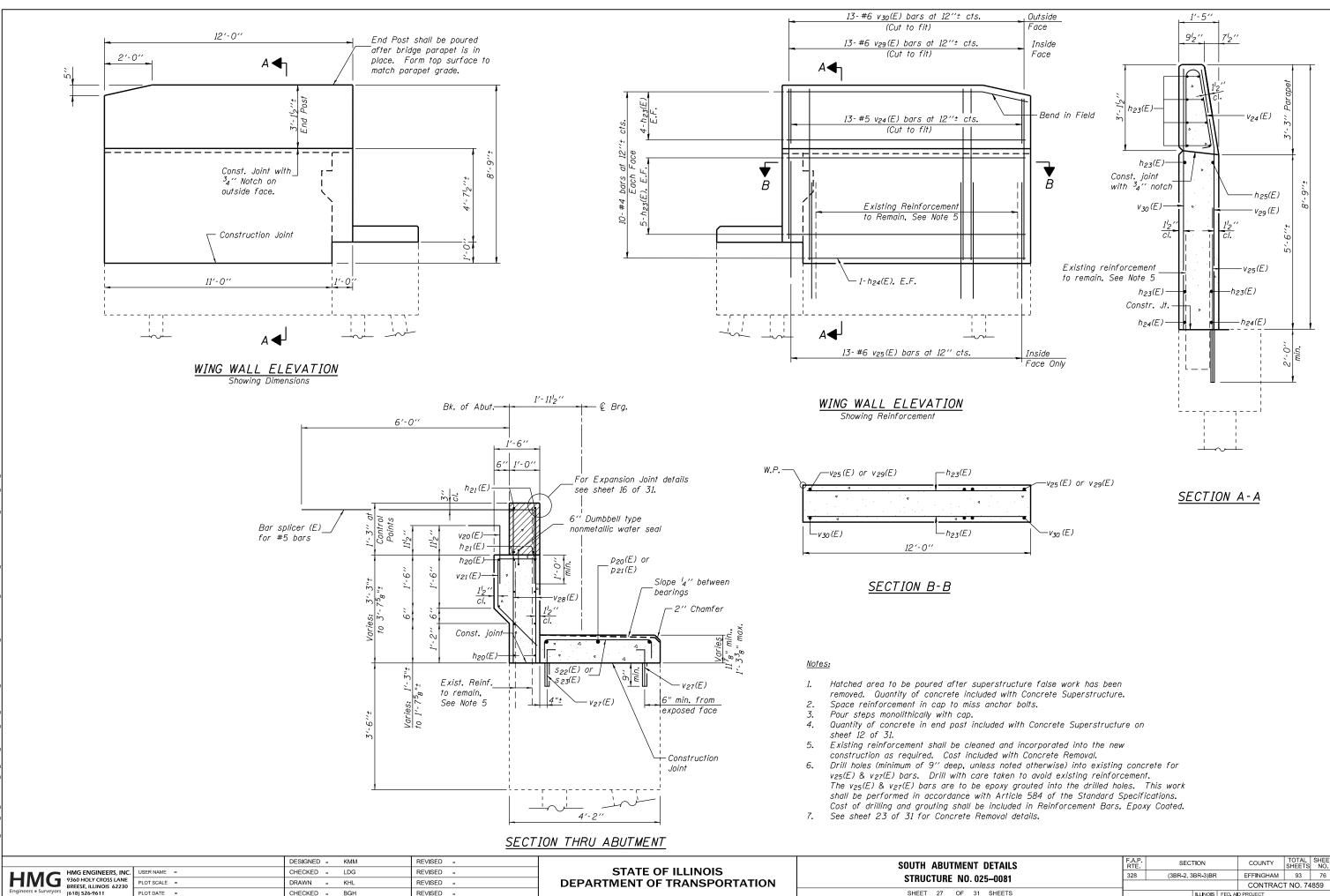
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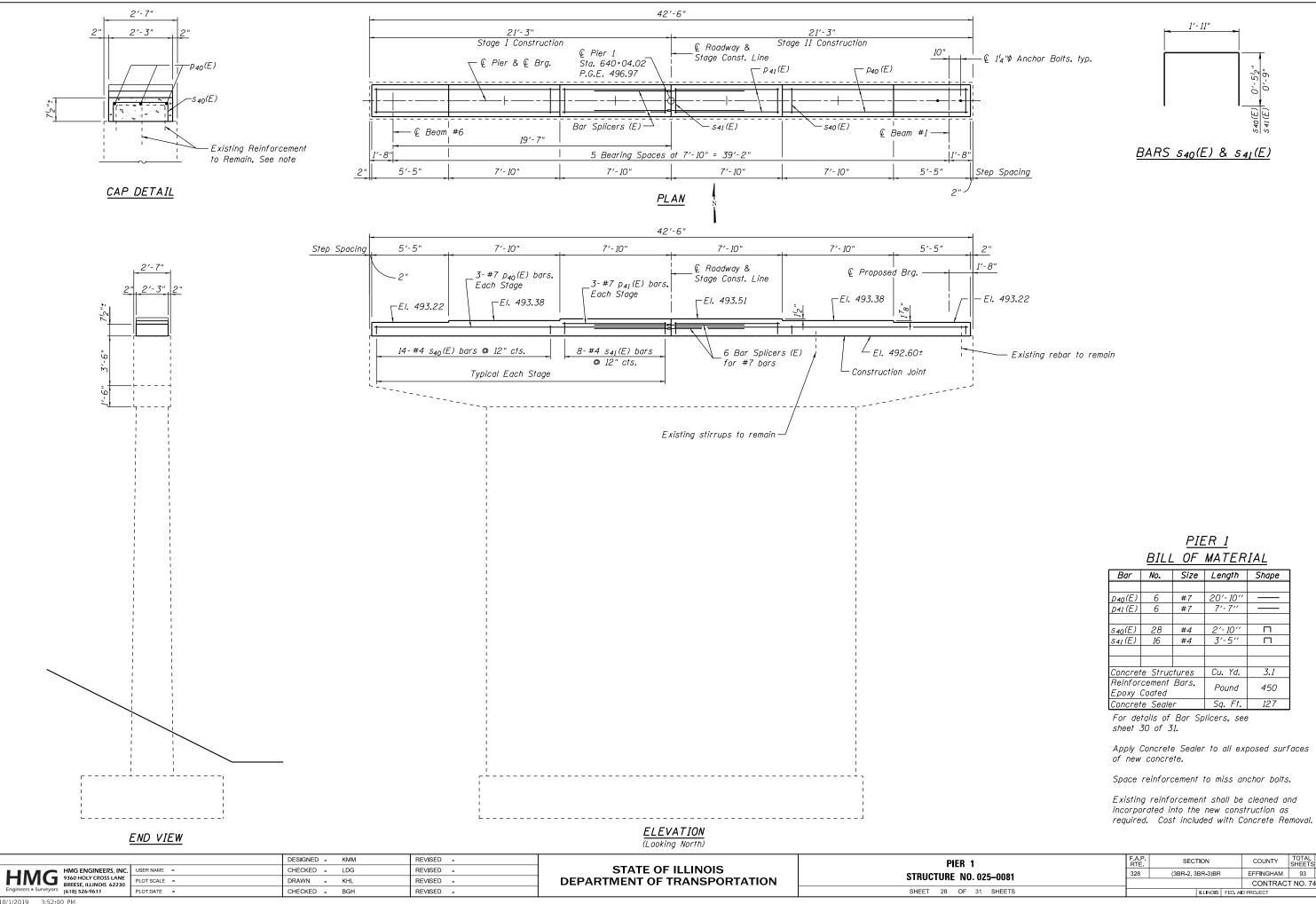
BARS \$22(E) & \$23(E)

<u>1'-5'</u>	,, 1							
			-		BUTME			
Π,)	Bar	No.	Size	Length	Shape	÷	
		h20(E)	20	#5	21'-4''	· · · ·	=	
	4	h ₂₁ (E)	8	#6	21'-4''		_	
		h22(E)	24	#5	8'-2''			
		h23(E)	36	#4	11'-9''		_	
		h24(E)	4	#4	10'-9''		コ	
		P20(E)	6	#7	22'-9"	·	-	
		P21(E)	6	#7	7'-7''		_	
		1						
		522(E)	32	#4	4'-5''		_	
		523(E)	16	#4	5'-0''		_	
it	– Bar Splicer (E)	V = (E)	44	#5	3'-11''	- г	_	
		v ₂₀ (E) v ₂₁ (E)	44	#5	5'-7''	י ד	_	
<u>4</u>		V21(L) V24(E)	26	#5	6'-5''		_	
Ă. †		V24(E) V25(E)	26	#6	6'-0''		_	
	<i>⊢ ₩.₽</i> .	V27(E)	92	#5	2'-4''	Г	-	
		V28(E)	88	#4	4'-8''	· · ·	_	
~		V29(E)	26	#6	8'-0''		コ	
03		V30(E)	26	#6	8'-5''		_	
-ų ,	4''\$ Anchor Bolts, typ.							
		Concret	e Struc	tures	Cu Yd	19.9		
		Reinfor Epoxy (Bars,	Pound	3,720	,	
		Structu			Cu Yd	77		
		Concret	e Seale	r	Sq Ft	363		
_		For sheet 30		of Bar	Splicers	, see		
				rete Se	aler to a	ll exposed	d surface	s
		of backwo						
-	1	pile caps.		5				
						l be cleai		
		incorpora					required.	
		Cost inclu	ided wi	th Conci	rete Rem	oval.		
MENT		F.A.P. RTE		SECTION		COUNTY	TOTAL SH SHEETS N	EE

FMENT . 025–0081		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		(3BR-2, 3BR-3)BR			EFFINGHAM	93	75
					CONTRAC	T NO. 74	859
31 SHEETS	ILLINOIS FED. A			FED. A	D PROJECT		



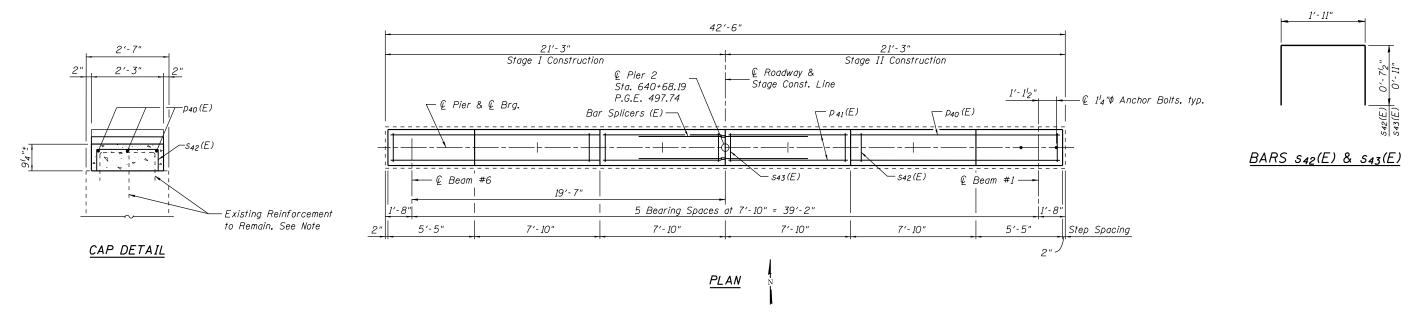
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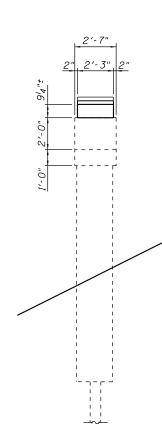


	PIL	<u>ER 1</u>
BILL	0F	MATERIAL

Bar	No.	Size	Length	Shape
P40(E)	6	#7	20'-10''	
p41(E)	6	#7	7'-7''	
s₄₀(E)	28	#4	2'-10''	
541(E)	16	#4	3'-5''	
Concret	'e Struc	tures	Cu. Yd.	3.1
Reinfor	cement	Bars,	Pound	450
Epoxy Coated			i ounu	730
Concret	'e Seale	r	Sq. Ft.	127

025–0081		F.A.P. RTE. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		(3BR-2, 3BR-3)BR		EFFINGHAM	93	77	
		CONTRACT NO. 74			T NO. 74	859	
31 SHEETS			ILLINOIS	FED. A	ED. AID PROJECT		





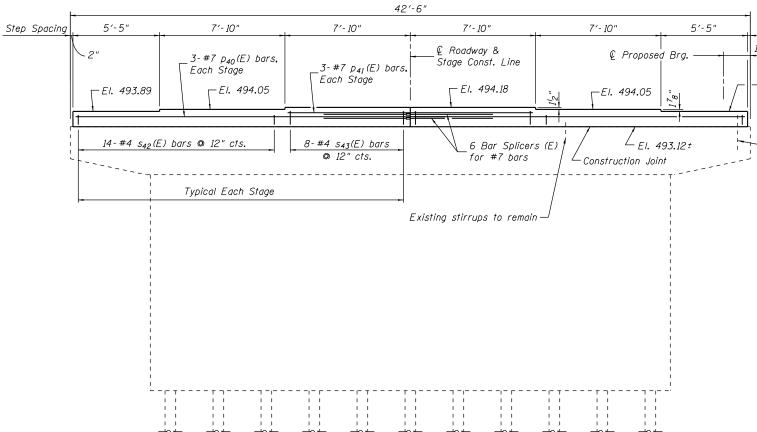






Image: Starte group of the starte g	E: H:			DESIGNED - KMM	REVISED -		PIER 2		SECTION	COUNTY	TOTAL SHEETS	IEET VO.
P = Engineers * Surveyors (618) 526-961 PLOT DATE PLOT DATE SHEET 29 OF 31 SHEET S		USER NAME =			STATE OF ILLINOIS	STRUCTURE NO 025-0081	328	(3BR-2, 3BR-3)BR	EFFINGHAM	93	78	
						DEPARTMENT OF TRANSPORTATION				CONTRAC	CT NO. 7485	9
	N E Ling		PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 29 OF 31 SHEETS		ILLINOIS FE	ED. AID PROJECT		

2" 1′-8″

- EI. 493.89

Existing rebar to remain

<u>PIER 2</u>									
<u>BILL</u>	. <i>OF</i>	MATER	<u>IAL</u>						
No.	Size	Length	Shap						

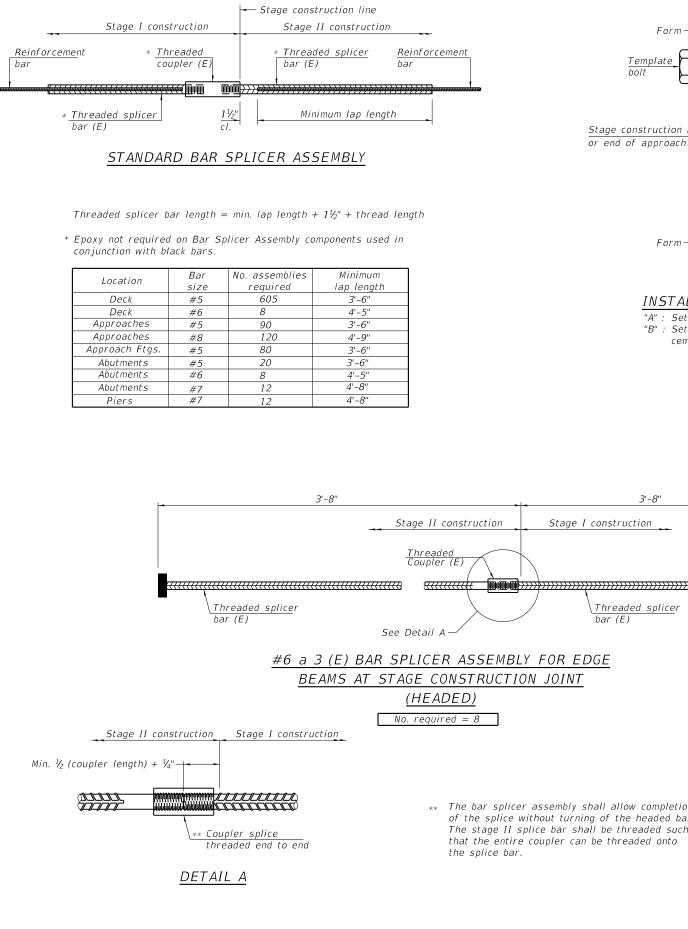
Bar	No.	Size	Length	Shape
p40(E) 6		#7	20'-10''	
p41(E) 6		#7	7'-7''	
S42(E) 28		#4	3'-2''	
S43(E) 16		#4	3'-9''	
Concret	te Struc	tures	Cu. Yd.	3.5
Reinfor	cement	Bars,	Pound	450
Ероху	Coated			730
Concret	te Seale	r	Sq. Ft.	132

For details of Bar Splicers, see sheet 30 of 31.

Apply Concrete Sealer to all exposed surfaces of new concrete.

Space reinforcement to miss anchor bolts.

Existing reinforcement shall be cleaned and incorporated into the new construction as required. Cost included with Concrete Removal.



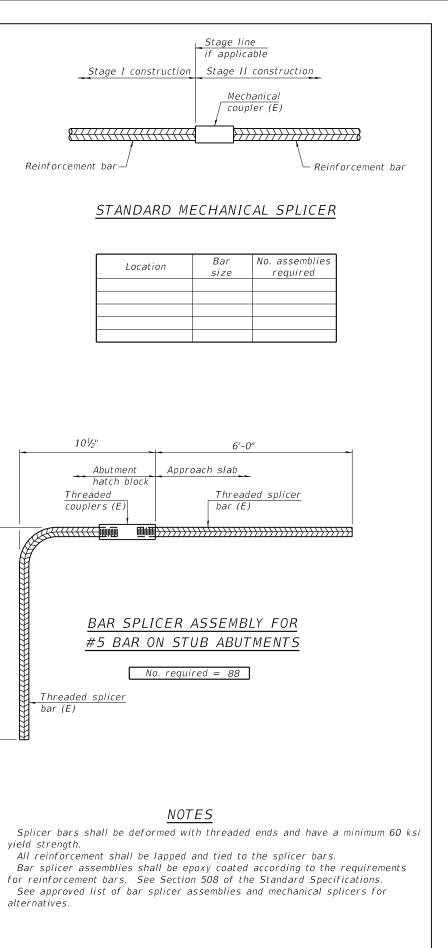
Form Threaded
Template
Threaded splicer bar (E)
Stage construction line
or end of approach slab — Positive stop
Threaded coupler (E)
Form <u>"B"</u>

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.

** The bar splicer assembly shall allow completion of the splice without turning of the headed bars. The stage II splice bar shall be threaded such

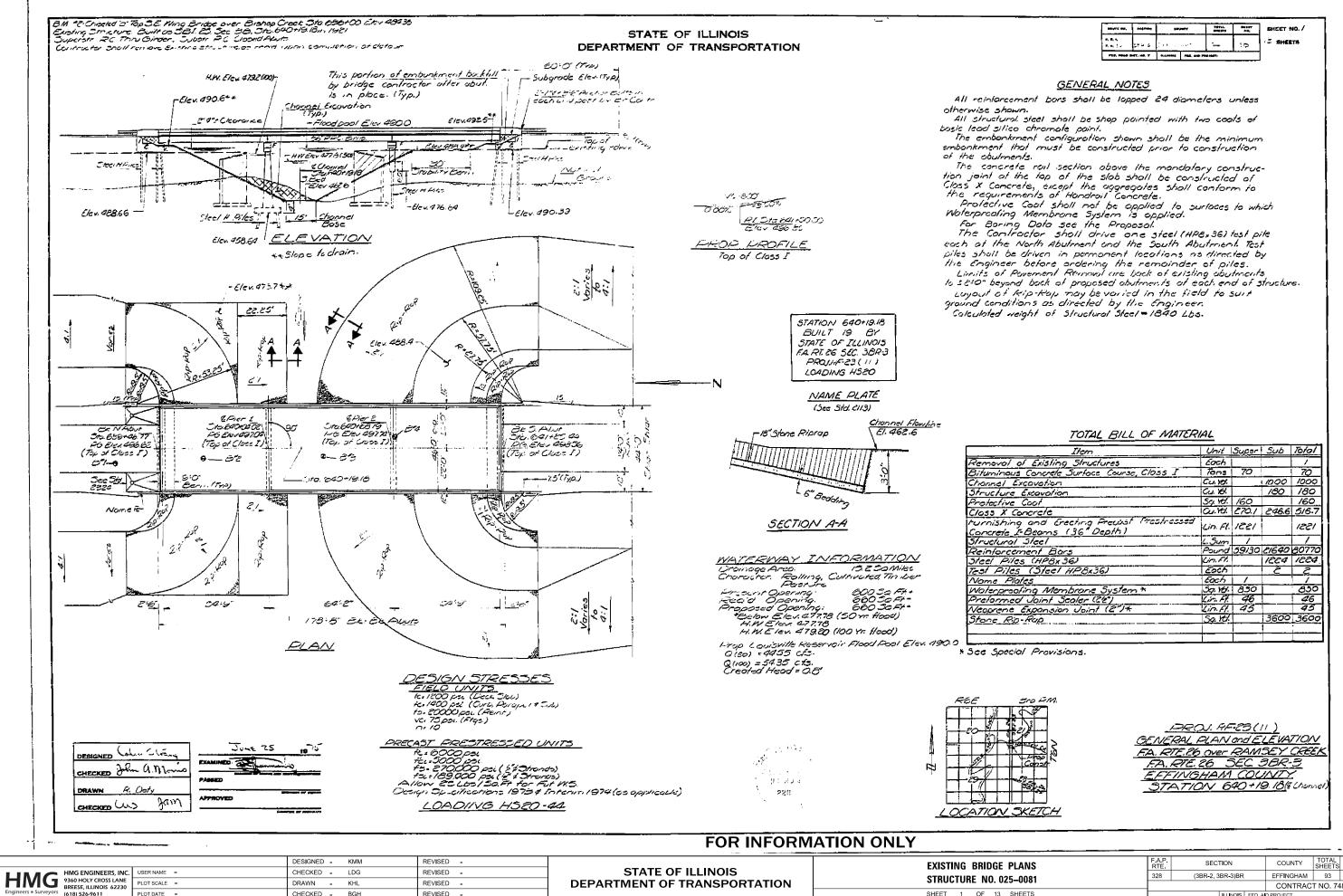
efau	1		DESIGNED - KMM	REVISED -		BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS		SECTION	COUNTY	TOTAL SHEET SHEETS NO.
AME		USER NAME =	CHECKED - LDG	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		328	(3BR-2, 3BR-3)BR	EFFINGHAM	93 79
MODEL	HMG ENGINEERS, IN 9360 HOLY CROSS LAN BREESE, ILLINOIS 6223	PLOT SCALE =	DRAWN - KHL	REVISED -		STRUCTURE NU. 023-0081			CONTRAC	CT NO. 74859
	ngineers • Surveyors (618) 526-9611	PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 30 OF 31 SHEETS		ILLINOIS FED.	AID PROJECT	
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efau	DESIGNED - KMM REVISED -				F A P. RTF	SECTION	COUNTY	TOTAL SHEET		
AME D	HMG ENGINEERS, INC.	USER NAME =	CHECKED - LDG	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 025–0081	328	(3BR-2, 3BR-3)BR	EFFINGHAM	93 80
DEL	HMG ENGINEERS, INC. 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230	PLOT SCALE =	DRAWN - KHL	REVISED -	DEPARTMENT OF TRANSPORTATION				CONTRAC	CT NO. 74859
MO	Engineers • Surveyors (618) 526-9611 PLOT	PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 31 OF 31 SHEETS	ILLINOIS FED. AID PROJECT			

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-	*****	savaty	-		
4 4 4 1 4	256 2	too const	·	10	A SHEETS
FILL MARKE	47. HA. T				1

IDIAL	BILL	OF.	IVIAI	RIAL	
			_		

Item	Unit	Super	Sub	Total
oval of Existing Structures	Each			1
ninous Concrete Surface Course, Closs I	Tons	70		70
nel Excavation	CU.YO.		1000	1000
ture Excavation	CU B.	L	180	180
ctive Coot	59.10.			160
X Concrete	Cu. H.	270.1	246.6	5/6.7
ishing and Creating Precust Prestressed rete I-Beams (36" Depth)	Lin. Fl.	1221		1221
tural Sleel	L.Sum	1	1	1
forcement Bars	Pound	59/30	21640	
Piles (HPBx 36)	Kin.Ft.	1	1224	1884
Piles (Steel HPBx36)	Each		Ĉ	2
e Plates	Each	1		1
rproofing Membrane System *	59.16.			830
ormed Joint Scaler (2/27)	Lin.Ft.			46
rene Expansion Joint (2")*	Lin.Fl.		1	45
c Rip-Rup	Sq. H.		3600	3600

GE PLANS). 025–0081		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		(3BR-2, 3BR-3)BR		EFFINGHAM	93	81	
					CONTRAC	T NO. 74	859
13 SHEETS	ILLINOIS FED. AID PROJECT						

E Brg. No. Abul.	E Pierl	E Pier 2	E Brg. 5n. Abul.
E Brg.	EBro.	E Brg.	<u>ê Br</u> g Spon 3 G Pier C
	Pier 7		
4-500, @ 13-66	4-500.0	2 15:82	4-5po.@/3164"
= 54-1		2:10"	=54:/"

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

","_ A! 1

To determine "t" After all PAC. I-Bms. have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subfracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown below, minus slab thickness, equals the fillet heights "t" above top flonge of beams. FILLET HEIGHTS

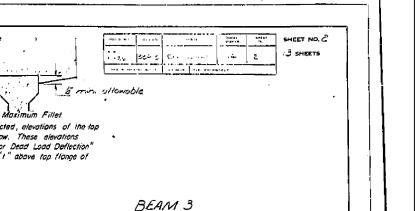
BEAM 2

DEAD LOAD DEFLECTIÓN DIAGRAM Includes weight al concrete slob, curbs, poropets f initial deck surf. on ly.) Note The above deflections are not to be used in the field if the engineer is working from the grade elevations

adjusted for dead load deflections as shown below.

EAST LONGITUDINAL BONDED CONST. JT. BEAM 1 heoretical Grade Theoretical Grade Theoretical Grade Theoretica Theoretical Theoretical levations Adjuste levations Adjuste Flevations Adjuste Grade Location Station Offsel Grade Location Station Offset Offset Grade For Dead Load For Dead Load Station Location For Dead Load Elevations Flevation Elevations Deflection Deflection Deflection 496.23: 44-2233 Bk. of No. Abut. 63940.173 -10.65 496.214 496-214 Bk. of No. Abul. 439-6-tt -15-34 BK. of No. Abut. 63946, 17 -24043 +50al+ 4 362 297 496.24 E Brg. No. Abut. 63944.27 -laste 496-221 4966228 E Brg. No. Abut. 63449-276 -11-314 445-155 3-44. 17 -20-000 A 44+15 E Brg. No. Abut. 440- 145 446- 468 460- 345 490- 345 63959,27 1,3465,27 63577,27 63577,27 - 46. 315 n 4959a 27 496-358 495.246 496.129 496.420 496.420 -16-067 471.23 -13.334 34.54.27 -20-20-446.71 -16.667 69419.270 69474.270 63949.270 43009-27 63019-27 641-9-21 496-355 440.199 496- -27 -20.000 446-23 446-419 496.42. -13-334 496.491 496.515 440.44 Ž -24-000 \bar{D} EBrg. Span I Pier 1 -16-667 +96.64 441.176 64003.196 -14-314 446-640 444-646 E Brg. Spon / Acri 490-957 6+6.13+35 490.00 E Brg. Span 1ª Acr 1 1.41) 35-374 -70_036 496-632 +41+032 & Pier I s4JÇ4_)ZQ -23-354 446-752 396.702 & Pier 1 -10-667 4(11)+a (646.903 8 Pier 1 64004-326 -20,000 496.55 & Brg. Span 2ª Acrl E Brg-Span C^eRer I 440-035 4942538 69564-69 -13-334 496.704 490.763 64004.0 -10-04 496.7.4 476.545 E Brg. Spon 2ª Pier 1 64904-491 -20.000 496.712 496.401 497.627 497.121 497.121 64014.690 64074.690 64034.690 64034.690 640+4.690 640+4.690 496.732 496.339 496.935 497.047 497.162 - 19. 394 456. d41 64014-69 64674-69 74934-69 -15.007 -10-667 -10-667 -15.001 -15.001 495.000 49e - 703 -13-334 -13-334 -13-334 -13-334 -13-344 446.470 497.692 497.140 497.294 64016-09 -20.000 496.002 446.741 490-003 496-332 496-513 497-152 497-145 64.124 . 690 640 34 . 641 -20-04 447.343 -20-03 447-115 666.44.61 -9-1-405--59 -20.000 644154-61 E Brg. Spon Ce Aler 2 04067-320 -13.334 497.37) 457.390 EBrg. Spon CE Pier 2 (4001-52 -10-667 **197.**3?0 447-320 [Brg. Spon 2@ Pier 2 4061.520 441.251 497.251 -20.009 -13-424 447.390 447. . 48 EPier 2 -16=617 497.424 447.529 44802214 E Pier 2 4.168-1 -20-000 497.200 4-17-200 E Pier 2 4058-190 EBrg. Spon 3@ Piere Autorise +97.+97 447.447 -13-33-E Brg.Spon 3ª Acrê 447-12 497-133 -15-05 Brg. Span 3@ Pier 2 441.200 4004.000 -20.00 +47.267 64058,000 447.537 197.574 497.415 441.954 +47.004 447.717 467.304 444.001 447.494 447.647 497.754 457.542 54079.860 64074-661 64074-961 64078-861 -14-65 -16-65 -16-61 -16-66 447.444 497.445 447.747 447.747 -20-000 -20-000 -20-000 -20-000 497-425 -13.33 -13.334 -13.35 04070<u>-</u> No 64098.100 447.575 447.575 497.725 497.40/ 447.517 447.517 497.577 seiddade 409H- 50 64104-46 641 04-4 641 DH. 30 64172-940 -17-32 495.10 498.173 & Brg. So. Abul. E Brg. Jo. Abut. -16.64 Answert 94122.94 E Brg. So. Abul. 641.77.440 -70.000 493-244 4 4 4 ... 0 . 4 BK. of So. Abut. 64125-445 -11-71-499.4263 44-0123 45-153 494.103 Bk. of So. Abut. 04122-443 =10.401 Bk. of Sc. Abut. 6+125-440 -70,000 +98-034 بالان والاطية ا E Bry. Su. Abut. 1 ; Bk. of So. Abut. E Bry. No. Abut & Pier C E Pier 1 Bk. of No. Abut. & Brg. Span 3@ Pier C E Brg. Spon C^e Pier C E Bry. Spori Ce Pier I & Bry Spon 1@ Pier 1 NOTE: Ecorn No.-East Longitudinal Bonded Elevations shown are at top of concrete slab. (\mathcal{M}) \mathcal{E} (\mathbf{I}) G (K) (2)B \bigcirc (\mathbf{F}) 61 (H) \bigcirc (A)Top of Class I is .125' higher. Construction Joint Ć Work this sheet with sheet #3. 0,02 ٢ ৩ at 6:8 cts. T ERdwy. £% (a)S o S . . 3 West Longitudinal Bonded ٢ Construction Joint <u>. 6</u>' <u>______</u> 8 DESIGNED When Strang <u>າຄາ5</u> 8 $(\overline{7})$ John a. Mori 2:6" 4-Spaces of 10.0°Cls.=40.0" 14:1" TOP OF SLAB ELEVATIONS 4-Spaces of 10'0'cts = 40'0" 14-1" 5-5poces at 10:0" cts. = 50:0" 12:10" PASSED <u>2-6"</u> DRAWN P.G. Bornett R. Doty F.A. RT. 26 SEC. 3BR-3 54:9" 64'2" 54-9" EFFINGHAM COUNTY fabl CHECKED (UN) DELETON OF HIGHNAYS ELEVATION LOCATION PLAN STA. 640+19.18 8-1-65 FOR INFORMATION ONLY

		•							
		DESIGNED - KMM	REVISED -		EXISTING BRIDGE PLANS	F A P BTE	SECTION	COUNTY TC	JTAL SHEET
	USER NAME =	CHECKED - LDG	REVISED -	STATE OF ILLINOIS		328	(3BR-2, 3BR-3)BR	EFFINGHAM	93 82
HMG ENGINEERS, INC. 9360 HOLY CROSS LANE BREESE, ILLINOIS 62230	PLOT SCALE =	DRAWN - KHL	REVISED -	DEPARTMENT OF TRANSPORTATION STRUCTURE NO. 025-0081				CONTRACT N	VO. 74859
Engineers • Surveyors (618) 526-9611	PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 2 OF 13 SHEETS		ILLINOIS FED. /	AID PROJECT	
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Location	Station	Offsel	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of No. Abut.	65745-170	-0.007	496.394	496.394
£ Brg. No. Abut.	03949.270	-4.667	490=496	490.468
	6 39 59. 2 10	-6-647	494. 449	440.446
Ä	63464.210	-0.007	476. 236	494.575
2	63974.270	-6-667	496-101	496.456
A B C D	63994 - 270	-6-407	+96+667	+96.723
EBrg. Span I ^e Pier I	1143.350	-6-207	446 . 807	440 <u>-80</u> 7
E Pier I	64004.020	-0.007	446.013	196-al3
E Brg. Spon č ^{. e} Pier I	54004=690	-0.001	496-414	440.019
-	64014-070	-6-667	440-912	494.592
Ģ.	64074 690	-0.067	477-011	497.081
or(07+	5+13++041	-6.047	497-110	491-203
Ŭ H	64044_h3C	-6.007	477.270	447= 502
Í	64054-090	-0. ALT	407+3+3	+97+ 195
E Brg. Span E ^{el} Riv C	n4067.520	-6.1+1	497.50L	447.501
E Pier 2	64068+199	-6= 407	497.509	497.509
E Brg. Spon 3 ^e Pier C	64968- hEU	-0-067	447=518	497.518
		-6.057	447.049	447.675
J J	64038-450	-5-607	497.735	497.B28
?	05094-860	-1.141	447-427	
Jr-X	n+101-An/)	-6-641	498-015	49d=112
E Brg. So. Abul.	64128-145	-0=Lin7	495-294	444.254
Br. of So. Abul.	64129.44)	-0.057	498.334	491-334

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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BEAM 4 \$ E ROWY. •

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK of No. Abul.	6 17 400 TTU	الأبريان	-+6+-+1	- 142 - 4 165
E Brg. No Abut.	63449+270	մ_ սեր	+/0.512	494.512
A	6 4954- 773	0,049	4 - + . 57 -	494.600
	64969-270	0_000	-56.543	445-683
て	~ 34 T4+2 T+	45300	490.712	456-760
D	53769-11C	لاوروس	\$96.7.1	446+12T
€ Brg.Span I® Pier I	04093-353	0.°40	+46-411	411-911
E Pier I	94024-020	0.ເວັນ	490,417	490-917
E Brg Sport ^e Pirn	04004-090	J_000	4+6-925	490,523
ć	e-01 690	0,000	\$47.410	-97.054
F	0402679	u_010	447.115	441-140
64 64 64 7	6+634+619	3. 906	++7+22-1	441-307
H	6+0++++++++++++++++++++++++++++++++++++	1 # C # 7	441.391	-41.446
I	1.40.34.040	0+1.10	497-4=7	447.445
E Brg. Spor, 2ªPirro	2 64067-520	وردين	497-635	447.005
E Pier č	64008+147	ئاريا <u>،</u> (497.014	457.014
& Brg. Spor 3 ^{er} Fier 6	6 + 9 · 8 + 9 + 9	لە ل ەر بەلە	-57.522	441-022
ل	64014-000	J_000	447. 775	447.175
ž	64964.864	9,303	\$17.301	447.432
Ž	04070.500	10.00	490-131	493,074
· 74	6515.0.36.9	6, 464	- 96. 174	444.220
E Brg. So. Abut.	412-943	0_000	497 <u>4</u> 944	449444
Bk of Sn. Abut.	0+122.440	9 D1/8	410-450	44 12494

DESIGNED Latur Strang CHECKED John a. Mario

DRAWN P.G. Barnett R. Doly

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8-/-65

CHECKED (UN)

E-S

EXAM PASSED

APPROVED

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TOR OF MICHWAYL

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. of No. Abut.	61041.770	u.bot	470.374	441.244
E Brg. No. Abul.	63445-285	6.007	496-633	445.462
A	A3559.270	6-607	49. 444	162.456
AB BC	039.0.270	6.607	449-250	495.514
Ç	63914-274	6-607	+96=60+	490-F94
D	639 19.270	s.t.Y	446,667	446-723
&Bry.Spor.1ª Pier 1	6-913-350	Late7	496an (T	-3-1047
E Pier I	0.00021	4.6.7	446-413	441-013
t Brg. Span C ® Pior I	64904-0-9	6-147	+9%- 114	540.019
2	4014-646	6. 757	446-412	446.552
5	04024-640	6.657	+47,011	447-041
1,40 Å	64034-641	0.++17	477.116	497.203
ਮੱ	64 144 . 04 1	6.661	498-220	447. 507
, Ž	€+05+±690	n=447	497-342	a 6 Z a 46 5
E Bry Spor C ^{.C.P.} ler C	n4941.527	1t.c.7	447-031	447-201
& Pier C	64064-140	0-667	427-509	447.479
E Brg. Span 3ª Pier 2	64003 <u>-</u> 380	6=451	497.519	447.510
- J	64070.363	5.657	447.040	497-675
ĸ	64744,860	5.647	417.105	447 078
- Z	64004.860	cott. I	411.927	447.975
M	641.05. 160	0+057	441.075	+68.112
E Brg. So. Abut.	64127.040	u.cst	4101 a 2134	444.254
3k. of So. Abut.	64125.443	5.617	4512134	499-234

.

<u>BEAM 6</u>

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Location	Station	Oliset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted Far Dead Load Deflection
Bk. of No. Abut.	o 10-1. / 70	13.314	451.203	44.251
Erg. No. Abut.	63949-270	13-334	496.211	446-252
2	63959-270	13.325 13.244	494 .151 +40.423	- 498+2155 - 46+46月
<i>ス</i> 白 し の	63-19-214	[3.334]	440.447	440-545
D	6 . 4 . 4 . 270	1-334	496-575	414-612
8 Brg. Spon 1ª Pier I	646*4-357	13.334	494.090	495=096
& Pier I	4400 4,0 20	13-33+	496 - 792	-46.702
& Brg. Spon 2 ^{er} Pier /	n+034-643	13.334	496.744	476-768
-2	64014-690	13.35-		440.841
المتر	+4024-470	13.3/4	496.903	454.57G
G	540 94 - 550	14-334	497-039	447-042
1040 14	44144=673 84154=303	1: 3:4	447.119	447.140
± £ Brg.Spor.č&PierZ			497.390	417.340
& Pier 2	64058+140	4ز 3 م 1	497.493	467_ 148
E Brg. Span 3 ^G Pi cr 2	14464-660	13.154	+97,407	497.467
J	64078=no0	13-334	457-937	497.504
Ķ	64456-8899 64075-840		497-574	447.817
J K M	64100-100	15.134	447.54	494.GC1
E Brg. So. Abul.	04122-543	642,235	inali f	499799
BK. of So. Abul.	69175-443	13.334	493,227	4534223
		<u>BEAM</u>		
BK: of No. Abut.	139-6,779	<u>BEAM</u>		-96.1
BK: of No. Abut. & Brg. No. Abut.	6)944 <u>+</u> 270	20.053	+96+155	450 <u>-</u> 259
	6)944 <u>+</u> 270 61959 <u>+</u> 270	20.05; 21.00; 20.00;	+96-154 +96-154 +46-219	450.159 490.246
	63944 <u>+270</u> 61959+276 61969+277	20+055 20+00 20+00 20+00 20+00	+96-154 +96-154 +46-219	4400 2 50 4400 2 46 4965 2 24
	63944,270 61959,270 61969,270 71577,273	20-051 20-00 20-00 20-00 20-00 20-00	+96-154 +96-154 +46-215 +46-215 +44-215 +44-215	440.246 440.246 496.324 490.456
& Brg. No. Abut. A B D	63944 <u>+270</u> 61959+276 61969+277	20+055 20+00 20+00 20+00 20+00	+96-154 +96-154 +46-219	4400 2 50 4400 2 46 4965 2 24
& Brg. No. Abul. A B B B B B B B B B B B B B B B B B B	63944+270 63969+273 63969+273 63969+273 63974+270 63984+270	20-333 23-339 20-806 23-539 23-539 20-806	+96-154 +96-154 +96-154 +46-256 +46-256 +46-356 +46-47	450.154 440.246 496.324 450.456 454.473
& Brg. No. Abut. A B B Brg.Spon ([®] Pier I & Pier I	63944,270 63969,275 63969,275 7577,279 63944,270 64003,350 64004,020	20-033 20-00 23-040 23-040 20-00 20-00 20-00 20-00 20-00	+96+144 +96+154 +96+256 -976-256 -976-256 -976-256 -976-256 +96-2562 +96-2563	450-154 440-246 465-324 460-522 460-522 468-473 490+957
& Brg. No. Abul. A B B B B B B B B B B B B B B B B B B	63944,270 63959,275 63969,273 73579,273 63974,273 64974,270 64973,359 64974,270 64974,270	20-00 20-00 20-00 20-00 20-00 20-00 20-00 20-00 20-00	+94-144 +96-154 +46-216 +46-216 +46-216 +46-216 +46-216 +46-216 +56-217 +56-217	450.159 447.246 496.52 450.52 450.52 470.757 490.757 490.753 476.549
& Brg. No. Abut. A & B & Brg. Spon I [®] Pier I & Pier I & Brg. Spon c ^{.®} Pier I	63944,270 63969,275 93969,275 93579,275 93579,275 6404,273 64064,273 64064,273 64064,273 64064,870 64064,850 64064,850	20-333 21-4 h) 30-100- 20-303 20-000 20-000 20-000 20-000 20-000 20-000	+91 - 1 - 4 +96 - 154 +46 - 256 +46 - 256 +46 - 256 +46 - 243 +56 - 243 +56 - 243 +56 - 244	450.159 440.246 440.324 440.452 440.452 440.453 470.553 490.553 440.549 476.713
& Brg. No. Abut. A E Brg. Spon I [®] Pier I & Pier I E Brg. Spon č [©] Pier I	63944,270 6395,275 6496,277 6497,279 64974,270 64974,270 64974,270 64974,270 64974,150 64974,150 64974,150 64974,150	20-033 20-04 23-04 23-04 20-000 20-000 20-000 20-000 20-000 20-000	+9(-1.4 +9(-1.5 +4(-2)0 +4(-2)0 +4(-2)0 +4(-2)0 +4(-5)1 +5(-2)1)+5(-2)1 +5(-2)1 +5(-2)1)+5(-2)1 +5(-2)1)+5(-2)1 +5(-2)1)+5(-2)1 +5(-2)1)+5(-2)1+5(-2)1)+5(-2)1+5(-2)1)+5(-2)1+5(-2)1)+5(-2)1+5(-2)1)+5(-2)1+5(-2)1)+5(-2)1+5(-2)1)+5(-2)1+5(-2)1+5(-2)1)+5(-2)1+5(-2	450.159 44.246 44.524 450.524 450.521 470.737 470.737 470.737 470.713 470.713 471.713
& Brg. No. Abut. A E Brg. Spon I [®] Pier I & Pier I E Brg. Spon C [®] Pier I	63944.270 63969.270 71869.270 7577.270 84974.270 84974.270 8494.820 8494.820 8494.820 8494.820 8494.820 8494.804	20-333 23-44 23-44 (3-34) 24-000 24-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000	+91.1.4 +96.155 +96.215 +96.216 +90.355 +90.355 +96.355 +96.365 +96.365 +94.365 +99.200	450.154 440.246 440.524 440.524 440.52 440.42 490.53 490.53 490.53 440.549 440.713
& Brg. No. Abut. A & B & Brg. Spon I [®] Pier I & Pier I & Brg. Spon & [©] Pier I & J & J & J	63944-270 6395-275 7577,77,77 63974-273 64974-273 64974-273 6494-273 6494-573 6494-573 6494-677 6494-677 6494-677	20-033 21-010 21-010 21-010 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000	+91-1-4 +96-154 +96-256 +91-256 +91-256 +91-547 +96-547 +96-547 +96-564 +96-564 +96-564 +96-377 +97-963	+50-159 440-246 440-524 450-522 450-537 490-333 472-349 457-743 470-353 472-753 457-753 457-753
& Brg. No. Abut. A Brg.Spon / PPer / E Pier / E Brg.Spon c Pier / S Spon c Pier / S Spon c Pier C	63944,270 63969,273 93579,273 64994,273 64994,273 64994,273 64994,273 64994,273 6494,273 6494,273 6494,273 6494,273 644,273 70 70 70 70 70 70 70 70 70 70 70 70 70	20-035 20-035 20-002 20-002 20-002 20-002 20-002 20-002 20-002 20-002 20-002 20-002 20-002 20-002 20-002 20-000 20-000 20-000	+91.1.4 +96.154 +96.154 +96.216 +90.364 +90.364 +90.364 +90.375 +96.306 +94.360 +94.360 +94.360 +97.363 +97.243	+50.159 440.246 496.52 450.52 450.757 490.757 490.753 476.713 476.713 476.753 477.62 477.751
& Brg. No. Abut. A & B & Brg. Spon I [®] Pier I & Pier I & Brg. Spon & [©] Pier I & Brg. Spon & [©] Pier Z & Brg. Spon & [©] Pier Z	63944,270 63964,275 9579,775 64974,273 64974,273 64974,273 64974,273 64974,273 64974,273 64974,273 64974,273 64974,173	20-033 21-010 21-010 21-010 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000	+91-1-4 +96-154 +96-256 +91-256 +91-256 +91-547 +96-547 +96-547 +96-564 +96-564 +96-564 +96-377 +97-963	+50.159 440.246 440.324 450.452 450.452 450.552 470.757 490.533 472.743 470.753 472.145 477.240
& Brg. No. Abut. A E Brg. Spon / Prier / E Pier / E Brg. Spon c Prier / E Brg. Spon c Prier 2 E Pier c E Pier c E Brg. Spon 3 Prier 2	63944,270 6395,273,273 6397,273,273 6397,273,273 6497,273 7497,273 7477,273 7477,273 7477,273 74777,273 7477,2737,2737 7477,27377,27377,27377777777777777777	20-035 21-010 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000	+91-1-4 +96-154 +96-154 +96-256 +96-256 +96-267 +96-267 +96-267 +96-267 +96-267 +96-267 +96-267 +97-261	+50.159 440.246 446.324 450.422 450.422 450.522 450.73 470.757 490.533 446.549 461.713 405.122 440.753 447.251 447.268
& Brg. No. Abut. A E Brg. Spon l [®] Pier I E Pier I E Brg. Spon c [®] Pier I E Brg. Spon c [®] Pier 2 E Pier c E Pier c E Brg. Spon 3 [®] Pierc	63944,270 63944,270 959275 9579273 64944,270 64944,270 64944,270 64944,270 64944,270 64944,270 64944,270 64944,270 64944,270 64944,270 6494,2700 6494,2700000000000000000000000000000	20-035 21-010 23-040 23-040 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000	+91.1.4 +96.154 +96.154 +96.256 +90.364 +90.364 +96.363 +96.306 +94.564 +94.56	+50.159 440.246 440.324 450.451 450.451 470.757 470.757 470.753 470.753 470.753 470.753 470.753 477.268 477.268 477.258
& Brg. No. Abut. A E Brg. Spon / Prier / E Pier / E Brg. Spon c Prier / E Brg. Spon c Prier 2 E Pier c E Pier c E Brg. Spon 3 Prier 2	63944,270 63944,270 959275 9579277 64944,270044,270044,270044,270044,2700	20-035 21-010 21-010 20-000	+91.1.4 +96.154 +96.154 +96.256 +90.364 +90.364 +96.363 +96.363 +96.363 +96.363 +96.364 +98.260 +97.364 +97.364 +97.364 +97.364 +97.364	+50.159 440.246 440.324 450.451 450.451 470.737 470.737 470.737 470.737 470.737 470.737 470.737 470.731 470.751 477.268 +07.258 477.258
& Brg. No. Abut. A Brg. Spon l ^e Pier I & Pier I & Brg. Spon c ^{.e} Pier I & Brg. Spon c ^{.e} Pier Z & Pier C & Pier C & Brg. Spon 3 ^e Pier Z M	63944,270 63944,270 959275 9579273 64944,270 64944,270 64944,270 64944,270 64944,270 64944,270 64944,270 64944,270 64944,270 64944,270 6494,2700 6494,2700000000000000000000000000000	20-035 21-010 23-040 23-040 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000 20-000	-94.1.4 -96.154 -96.154 -96.547 -96.547 -96.547 -96.547 -96.547 -97.543 -97.543 -97.543 -97.543 -97.543 -97.543 -97.544 -97	+50.159 440.246 446.324 450.422 450.422 450.522 450.733 470.753 490.533 446.549 461.713 407.425 447.268 477.268 477.268 477.268
& Brg. No. Abut. A E Brg. Spon / Prier / E Pier / E Brg. Spon c Prier / E Brg. Spon c Prier 2 E Pier c E Pier c E Brg. Spon 3 Prier 2	63944,270 63944,270 959275 9579277 64944,270044,270046,270046,270046,2700	20-035 21-010 21-010 20-000	+91.1.4 +96.154 +96.154 +96.256 +90.364 +90.364 +96.363 +96.363 +96.363 +96.363 +96.364 +98.260 +97.364 +97.364 +97.364 +97.364 +97.364	+50.159 440.246 440.324 450.451 450.451 470.737 470.737 470.737 470.737 470.737 470.737 470.737 470.731 470.751 477.268 +07.258 477.258

FOR INFORMATION ONLY

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ΞĘ	STATE and an own the second			1 + ····	
efai		DESIGNED - KMM	REVISED -		EXISTING BRIDGE
Ő H	HMG ENGINEERS, INC. USER NAME =	CHECKED - LDG	REVISED -	STATE OF ILLINOIS	
EL N	9360 HOLY CROSS LANE BREESE, ILLINOIS 62230 PLOT SCALE =	DRAWN - KHL	REVISED -	DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 02
MOL	Engineers • Surveyors (618) 526-9611 PLOT DATE =	CHECKED - BGH	REVISED -		SHEET 3 OF 13
	10/1/2019 4:02:14 PM		•		

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Pouls eu	444 Date	LUEALI	PBFall sadder	84657 ND	
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148 -146 I			WHL4		1

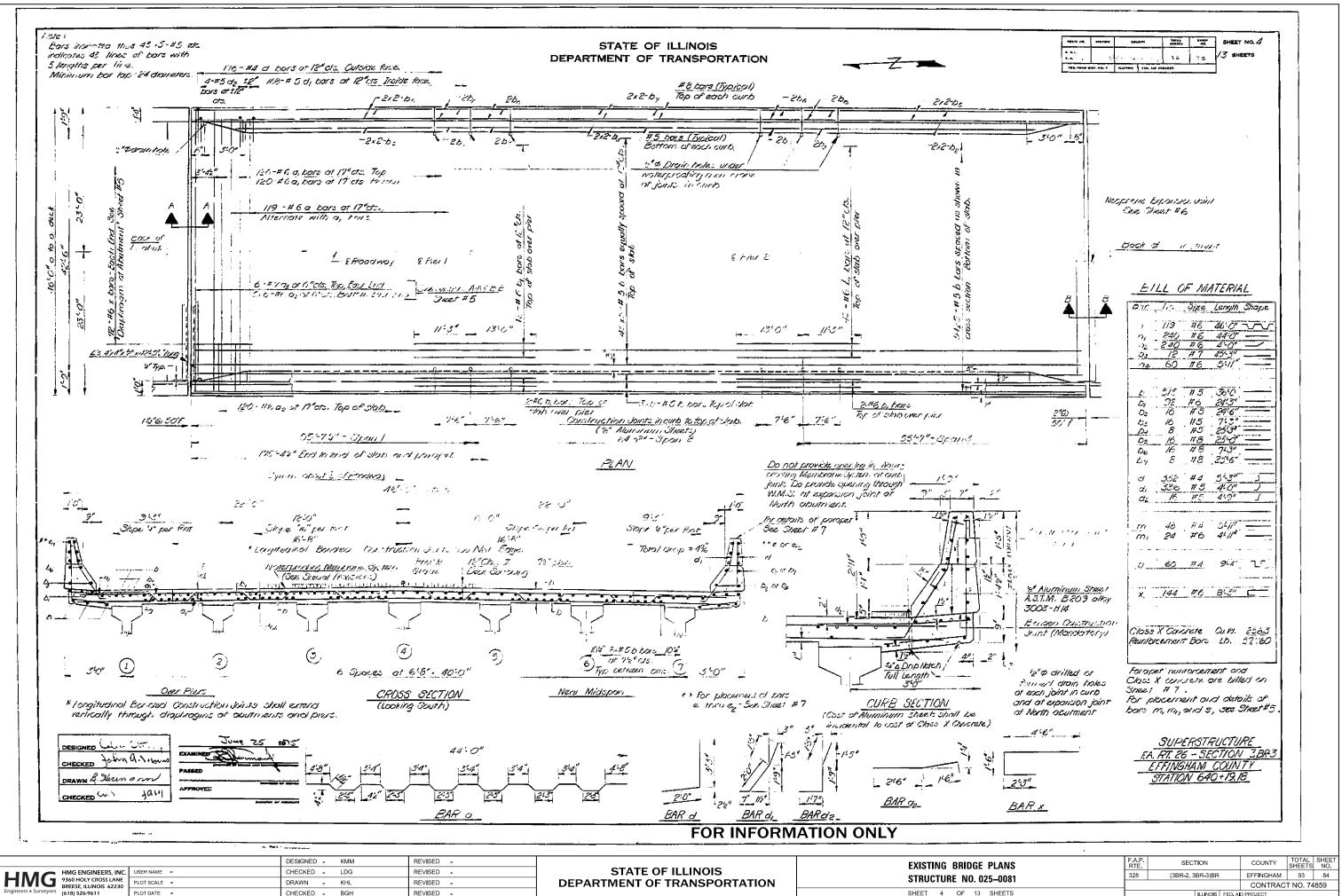
SHEET NO.J / ? SHEETS

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. of No. Abul.	\$2545.170	10.007	496.214	496.214
E Brg. No. Abut.	o 1949-276	10.007	446.128	456.724
- -	63954.210	60-667	+96.20.	490.315
G I	63969-273	14.007	440 355	456.159
<i>4</i> 1	n 1979 . 279	10-011	490.421	440.475
4 8 0	e3949.211	Ln.tL7	446.536	49c. 542
E Brg. Span 1ª Pier 1	041 33=350	Least 1	440.121	495.026
E Pier 1	54(¹)+₌ (2)1	10-067	446.631	+46-632
E Brg. Spor. C ^e Pier I	6400++690	14.007	+90-018	446.638
7	64914-640	14.067	496.732	496.772
2	04024 690	10.007	496-530	176.401
2	04434 o44	14.001	446.435	497.622
	64444.090	16.647	+97.346	497-121
140,04	0-174-050	Learst	647.157	447.214
E Brg. Spon C [®] Pier 2	10-127-521	10.017	141. 123	-97-320
E Pier 2	64061=L91	16.047	647, 127	457.329
E Brg. Spon 3ªPier E	64064-360	10.667	491.731	497.334
. 1	64074.460	10-057	497.445	457.444
¥.	04099-060	10. 467	197-035	441-047
	64.379 . 11.3	16.661	447.747	647.744
JK LM	64104-863	16-457	447.415	447.412
t Brg. So. Abut.	64123.940	LAUCS/	داا،دە	4+0.113
Bk. of So. Abut.	n4145+947	16.647	441.153	404.15s

NOTE: Nort. Elevations shown are at top of concrete stab. Top of Cluss I is .125' higher Work this sheet with sheet #2.

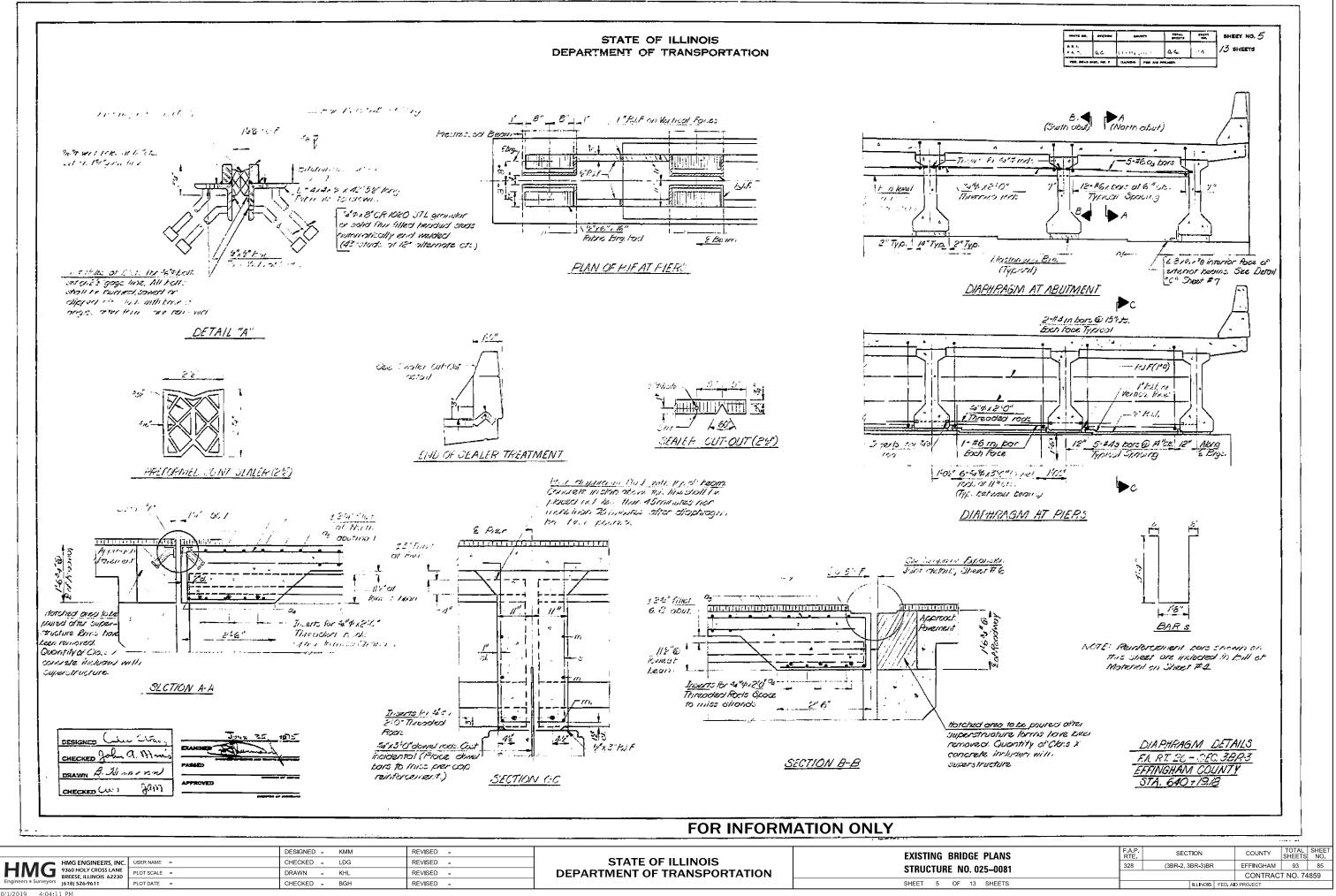
TOP OF SLAB ELEVATIONS
F.A. RT. 26 SEC. 3BR-3
EFFINGHAM COUNTY
STA. 640+19.18

GE PLANS		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
025–0081		(3BR-2, 3BR-3)BR		EFFINGHAM	93	83	
025-0081					CONTRAC	T NO. 74	859
13 SHEETS			ILLINOIS	FED. A	D PROJECT		

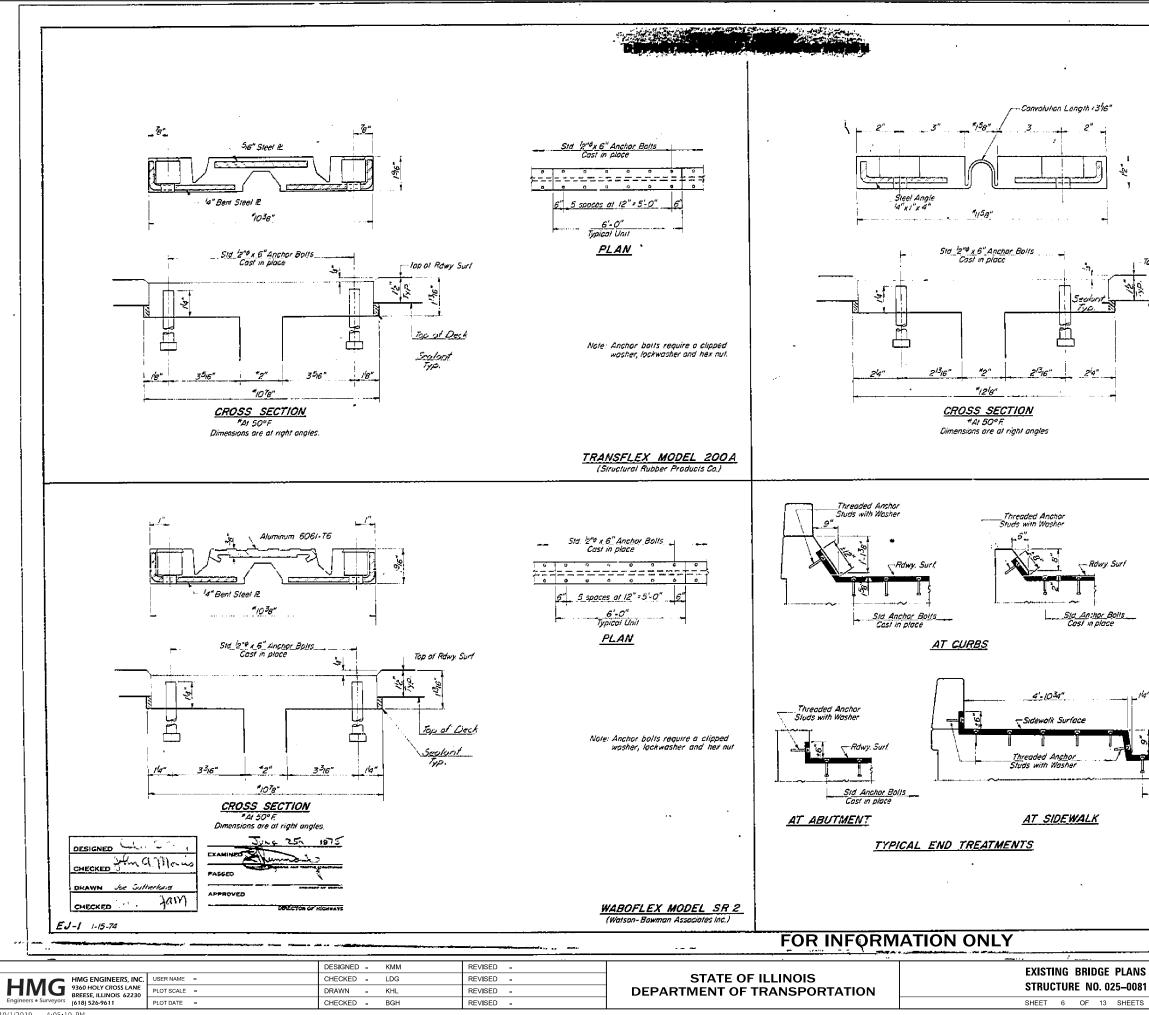


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3	SHEETS	

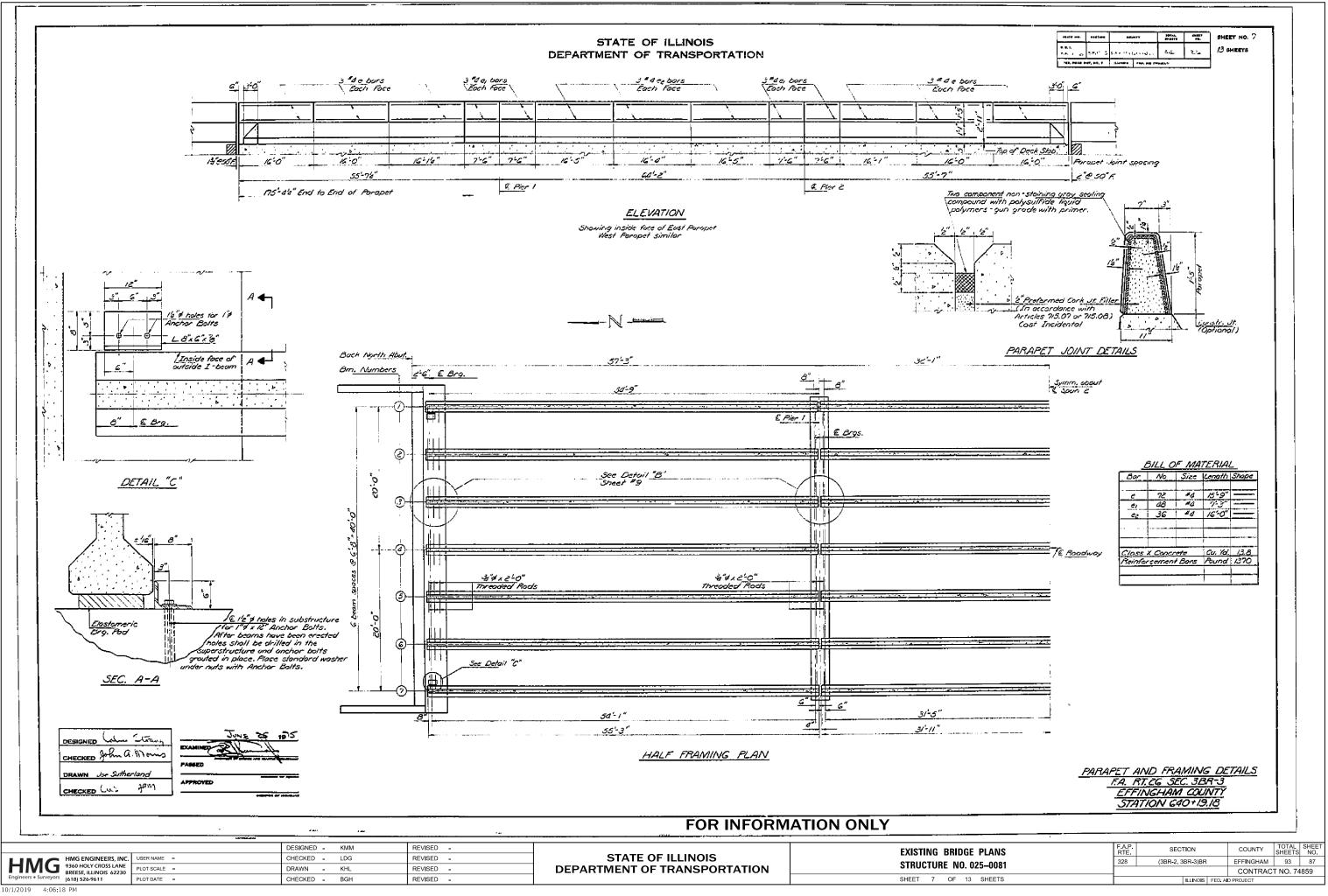


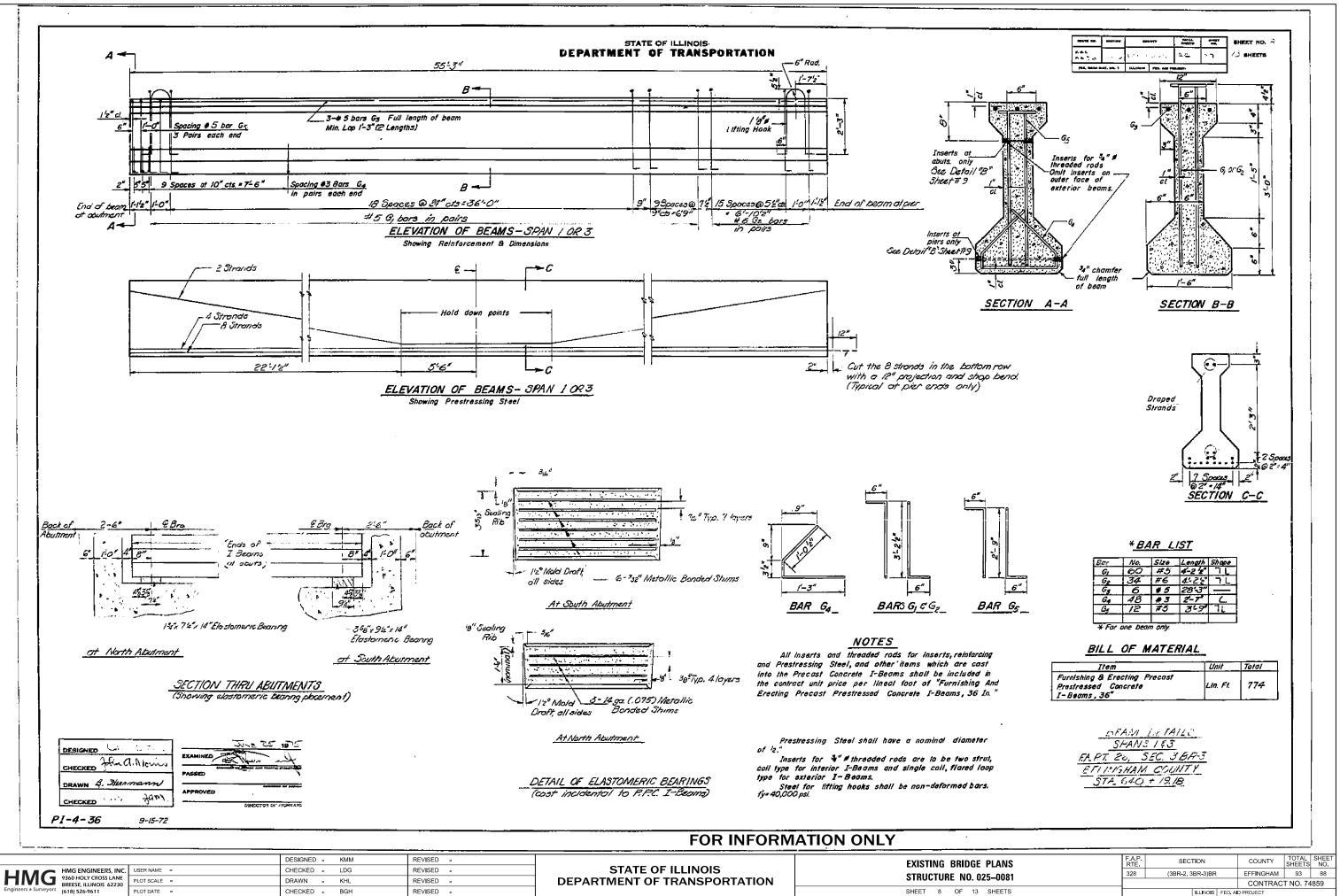
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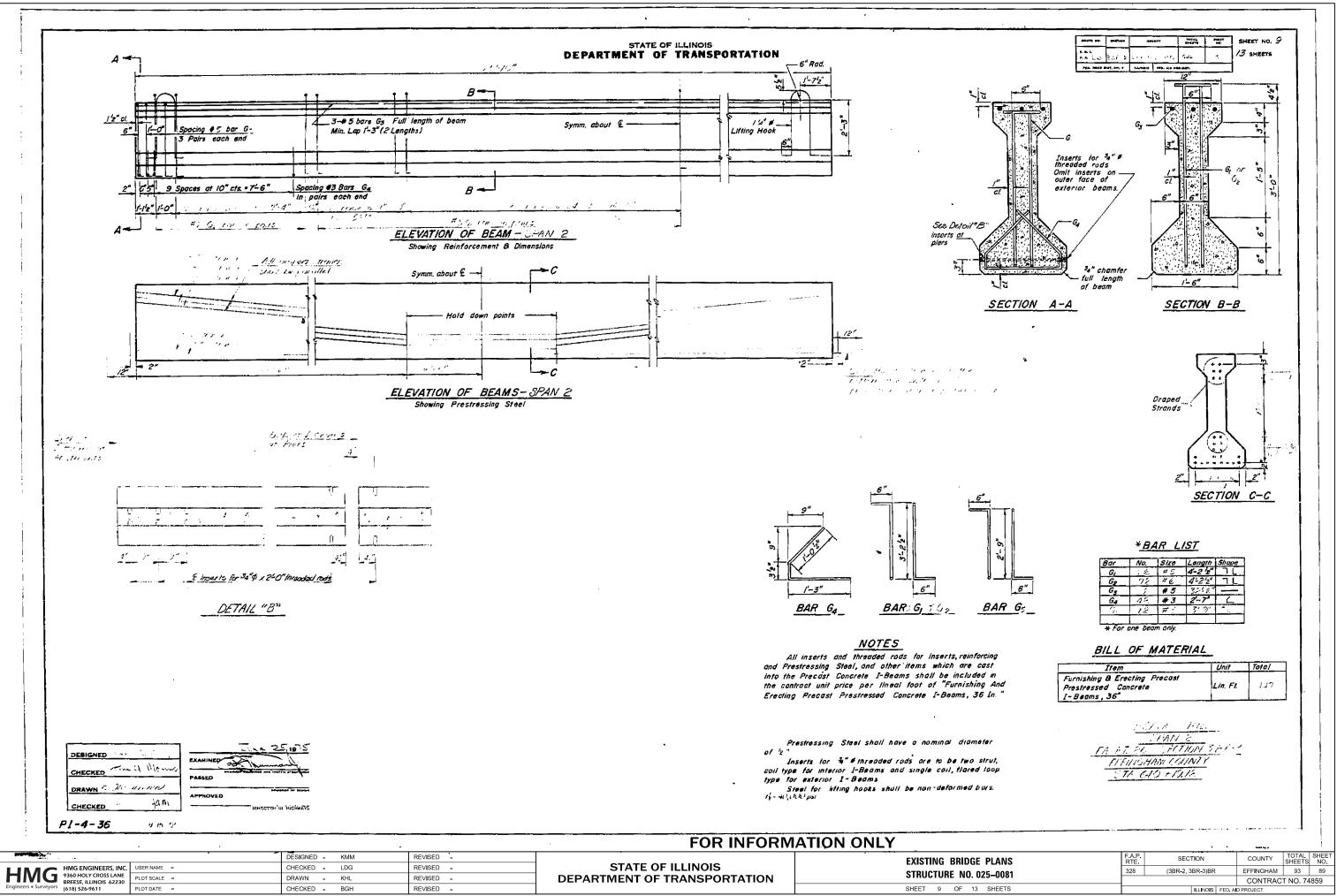
10/1/2019 4:05:10 PM

THE ME SHERT NO. 2 ------13 SHEETS _____Std. ¹2"# x 6"Anchor Boils ______ Cast in place ŵ 4'2" 3 spa at 13"= 3' 3' 1'2" 1'-0" Typical Unit 4'- 246" Rel <u>PLAN</u> Top of Rdwy. Surf <u> (</u> 5 Top of Deck Note. Anchor bolts require a flat washer and lacknut FEL-SPAN MODEL T-30 (Fel-Pro Building Products Inc.) Rdwy Surl NOTE Joint openings shall be adjusted in accordance with Article 503,07 (c) of the Std Sped's when the deck is poured at an ambient temperature officer than SO^o F. Rdwy Suri Ľ. Sid Anchor Bolis Cost in place NEOPRENE EXPANSION JOINTS (2") FOR EXPANSION LENGTH OF DECK = 0 to 160 ft. F.A. RT. 2G SEC. 3BR-3 EFFINGHAM COUNTY STATION 640+19.18 ... TOTAL SHEE SHEETS NO. SECTION COUNTY 328 (3BR-2, 3BR-3)BR EFFINGHAM 93 86 CONTRACT NO. 74859 ILLINOIS FED. AID PROJEC

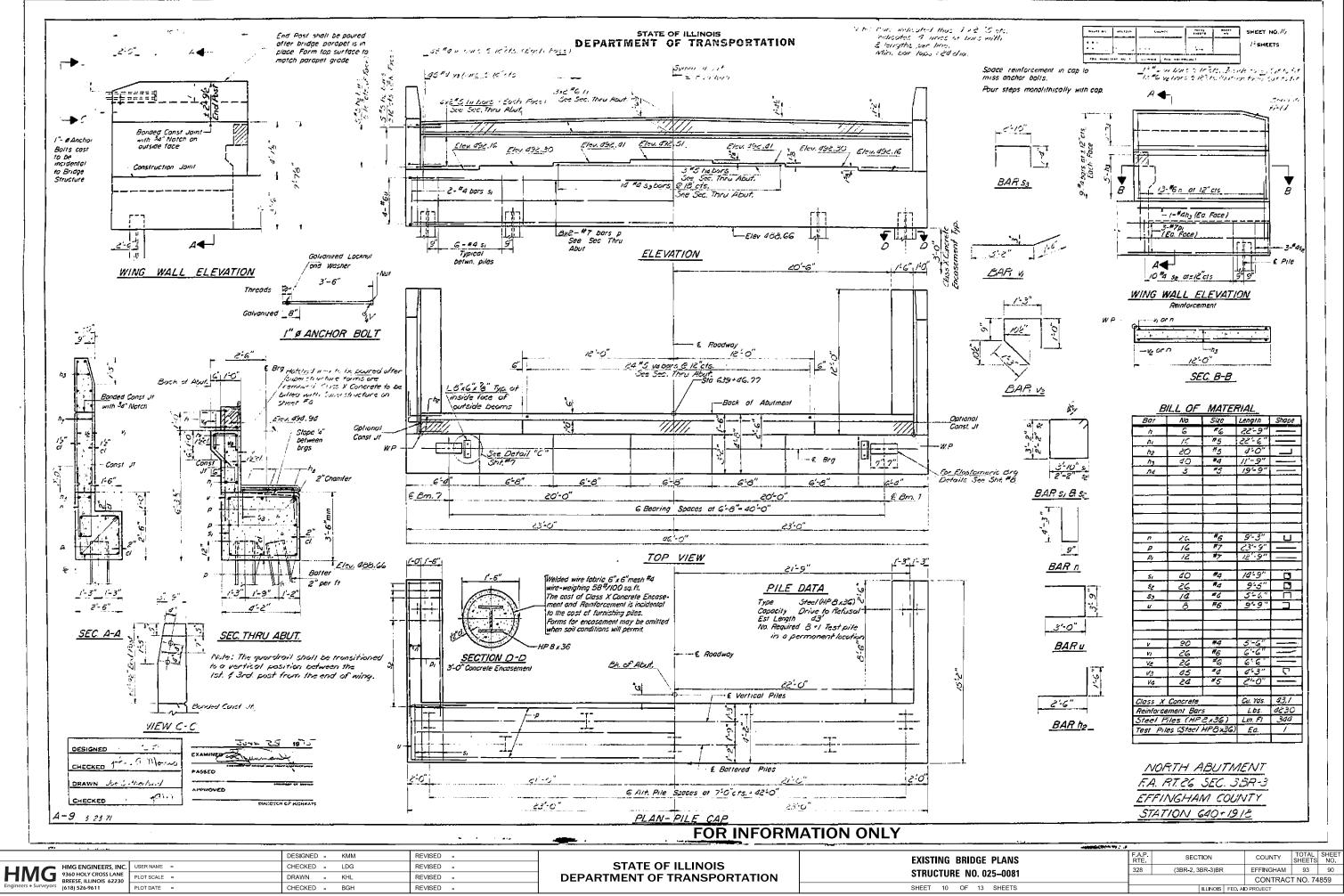




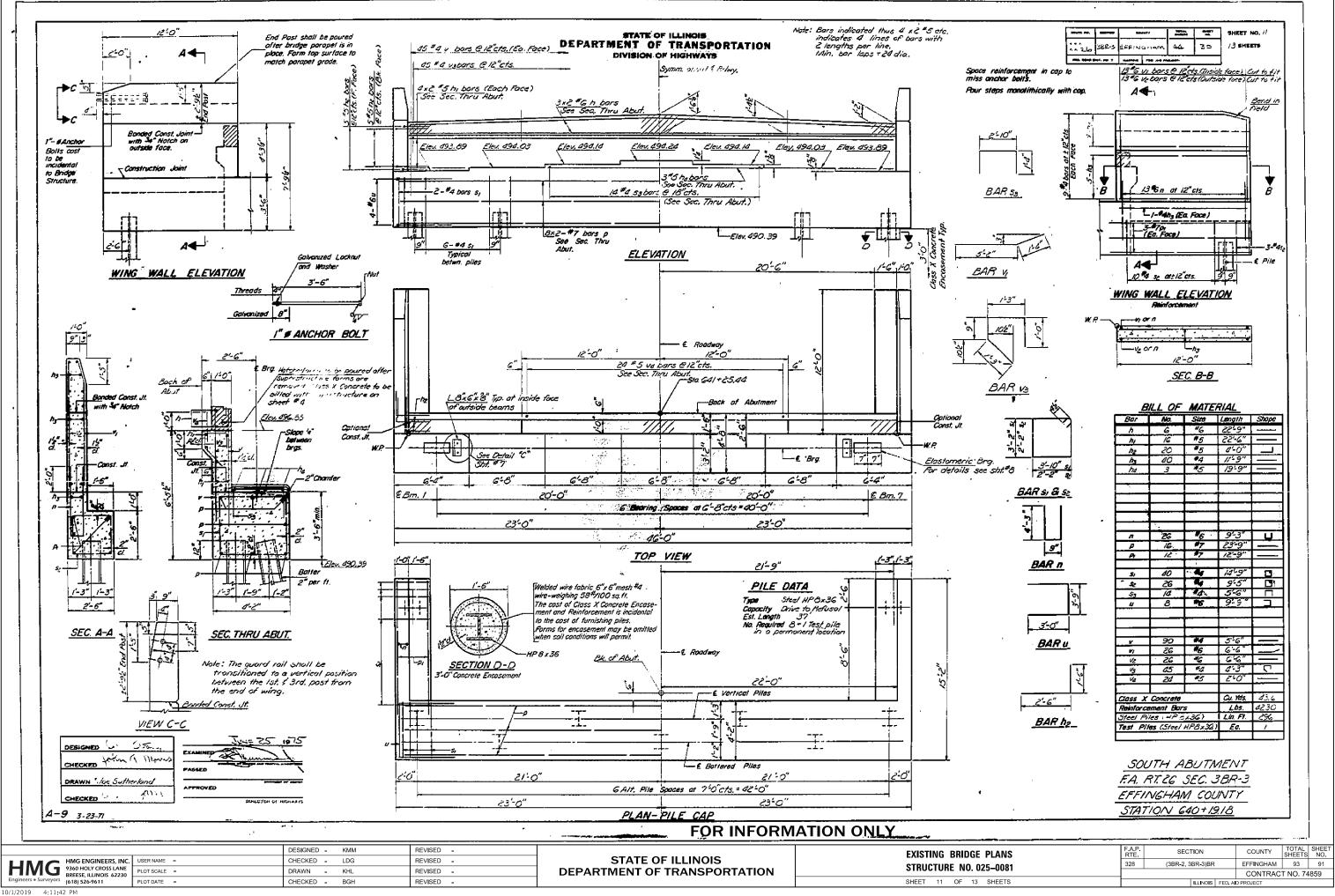
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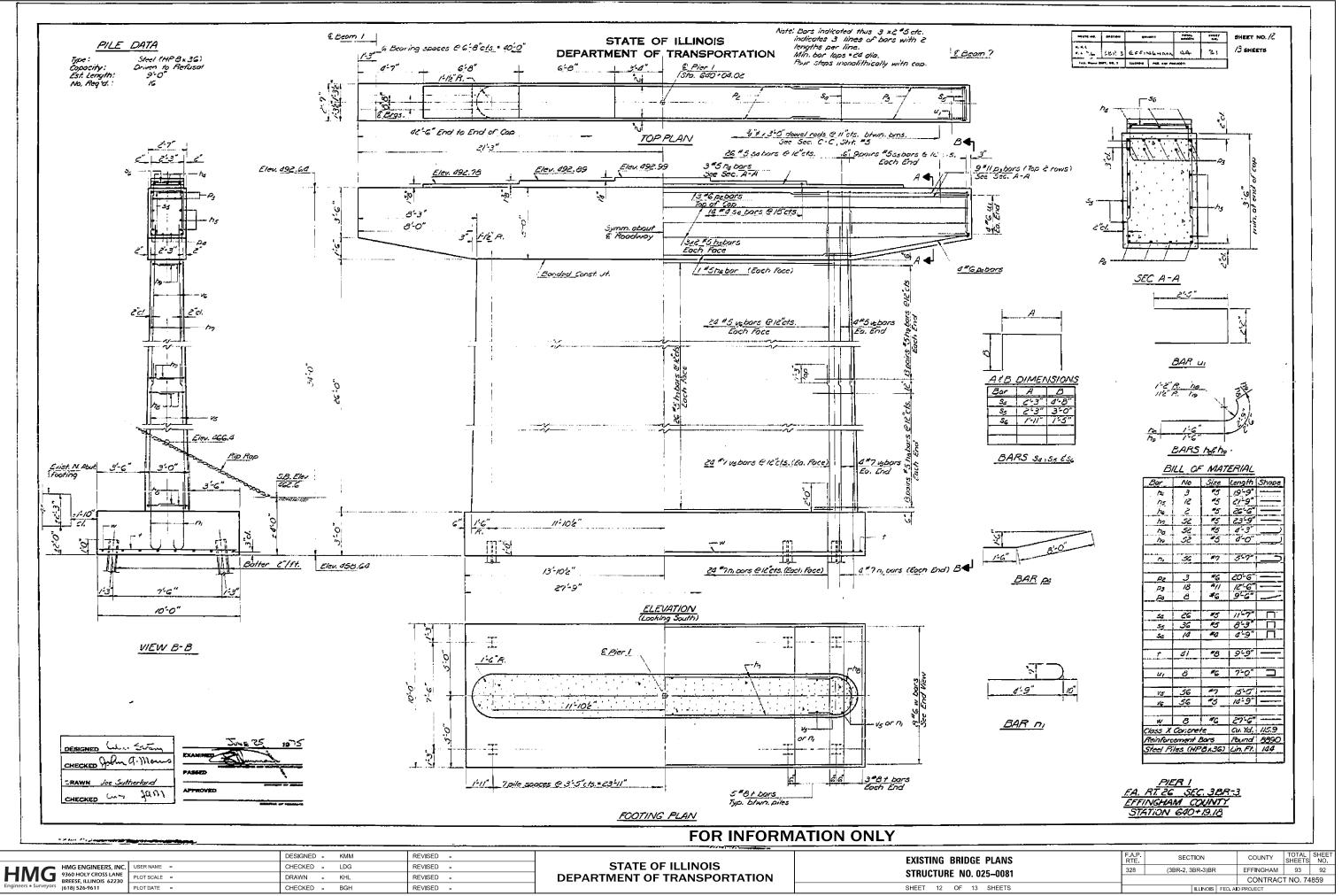


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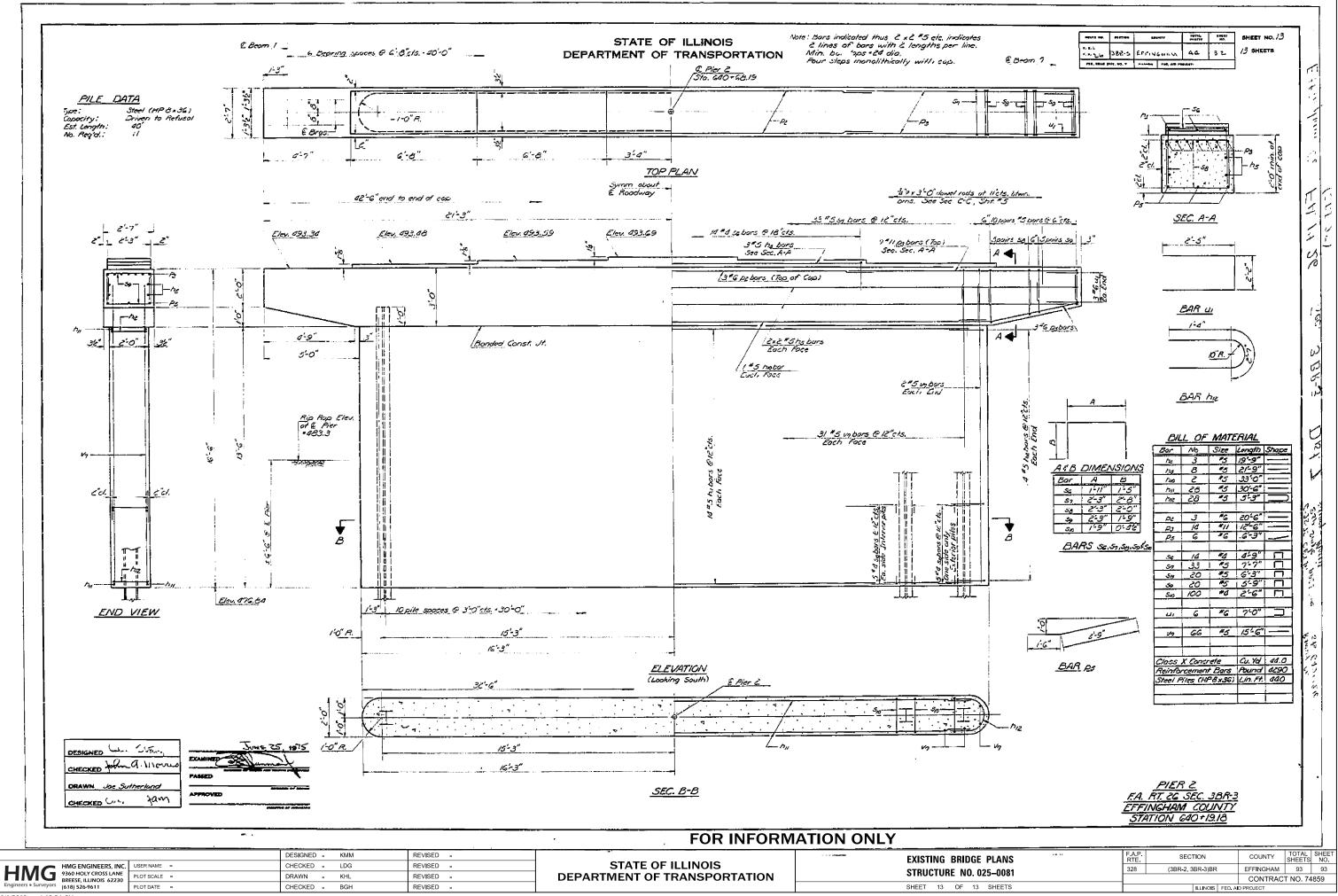


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