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03-08-2019 LETTING ITEM 026

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

49 + 3 = 52 TOTAL SHEETS

D-91-362-1B



CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS SERVICE ISOLUTIONS I COMMITMENT

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

PROPOSED

FAP ROUTE 344 (IL 83) OVER US 34 (OGDEN AVE) & AT BNSF RR SECTION 2018-041-BD&BJR PROJECT NHPP 6N2W(561) **BRIDGE DECK OVERLAY AND BRIDGE JOINT REPAIR DuPAGE COUNTY**

LOCATION MAP

(NOT TO SCALE)

C-91-287-18

HIGHWAY PLANS

WITHIN VILLAGES OF HINSDALE, CLARENDON HILLS, AND WESTMONT TRAFFIC DATA

1L ROUTE 83: FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL ADT (2017) = 64,300 P.V. = 85% S.U. = 10% M.U. = 5% POSTED SPEED LIMIT = 55 MPH

DESIGN SPEED LIMIT = 55 MPH



DATE SIGNED: 12/4/2018 EXP. DATE: 11-30-19

BRIDGE REPAIR

SN: 022-0157 **BEGIN PROJECT:** STA, 394 + 14

END PROJECT:

BRIDGE REPAIR

BEGIN PROJECT:

SN: 022-0155

STA. 349 + 68 END PROJECT: STA, 354 + 29

STA. 396 + 55

RANGE 11E - 3RD PRINCIPAL MERIDIAN CHICAGO AVENUE

TOWNSHIP - DOWNERS GROVE NORTH (847)705-4247

GROSS LENGTH = 7810 FT. = 1.479 MILE NET LENGTH = 702 FT. = 0.133 MILE

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 GR 811

PROJECT MANAGER: FAWAD AQUEEL, P.E., P.T.O.E.

CONTRACT NO. 62H01

INDEX OF SHEETS

DISTRICT ONE DETAILS

	1112 27 31 31 12 13		210111101 0112 221		
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SHEET NO.	DESCRIPTION COVER SHEET	BD-32	BUTT JOINT AND HMA TAPER DETAILS		
2	INDEX OF SHEETS. HIGHWAY STANDARDS AND GENE	TC-11	TYPICAL APPLICATIONS RAISED REFLE		
3	ALIGNMENT, TIES, AND BENCHMARKS	TC-12	MULTI-LANE FREEWAY PAVEMENT MAI		
4-8A	SUMMARY OF QUANTITIES	TC-13	DISTRICT ONE TYPICAL PAVEMENT MA		
9-14	MAINTENANCE OF TRAFFIC	TC-22	ARTERIAL ROAD INFORMATION SIGN		
15-16	PAVEMENT MARKING PLANS				
13 10	BRIDGE STRUCTURE 022-0155				
17	GENERAL PLAN AND ELEVATION				
18	GENERAL STRUCTURAL DATA				
19	STAGE CONSTRUCTION DETAILS				
20	BRIDGE DECK REPAIRS				
21	SOUTH ABUTMENT EXPANSION JOINT DETAILS				
22	NORTH ABUTMENT EXPANSION JOINT DETAILS				
23-25	PREFORMED JOINT STRIP SEAL		HIGHWAY STANDAI		
26	FRAMING PLAN	STANDARD	NO. <u>DESCRIPTION</u>		
27	PPC I-BEAM REPAIR	000001-06	STANDARD SYMBOLS, ABBREVIATIONS		
28	ABUTMENT AND SLOPE WALL REPAIRS	606101-05	TYPE A GUTTER (INLET, OUTLET & EN		
29	BAR SPLICER ASSEMBLY AND	701101-05	OFF-RD OPERATIONS, MULTILANE, 15		
	MECHANICAL SPLICER DETAILS	701411-09	LANE CLOSURE, MULTILANE, AT ENTR		
	BRIDGE STRUCTURE 022-0157	701416-11	LANE CLOSURE, FREEWAY / EXPRESS		
30	GENERAL PLAN AND ELEVATION	701421-08	LANE CLOSURE, MULTILANE, DAY OPE		
31	GENERAL STRUCTURAL DATA	701422-10	LANE CLOSURE, MULTILANE, FOR SPE		
32	STAGE CONSTRUCTION DETAILS	701426-09	LANE CLOSURE, MULTILANE, INTERMI		
33	BRIDGE DECK REPAIRS	701901-06	TRAFFIC CONTROL DEVICES		
34	SOUTH ABUTMENT EXPANSION JOINT DETAILS	704001-08	TEMPORARY CONCRETE BARRIER		
35	SOUTH ABUTMENT EXPANSION JOINT DETAILS	782006	GUARDRAIL AND BARRIER WALL REFL		
36	NORTH ABUTMENT EXPANSION JOINT DETAILS				
37	NORTH ABUTMENT EXPANSION JOINT DETAILS				
38	PREFORMED JOINT STRIP SEAL				
39	PPC I-BEAM REPAIR		MINTUDE		
40	BEARING DETAILS - ABUTMENTS		<u>MIXTURES</u>		
41	ABUTMENT AND SLOPE WALL REPAIRS		HOT-MIX ASPHALT MIX		
42	PIER REPAIRS	OPERATION	MIXTURE TYPE		
43	BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS	PAVEMENT AND SHOULDER	HMA SURFACE COURSE, MIX "D", N70, (IL 9.		
44-45	TRANSITION DETAILS	RESURFACING	LEVELING BINDER (MACHINE METHOD), N70,		
46-51	DISTRICT DETAILS	QMP DESIGNATIONS: QUAL	ity control/quality assurance (QC/QA);		

11	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
12	MULTI-LANE FREEWAY PAVEMENT MARKINGS
13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS

WAY STANDARDS

:	DESCRIPTION
	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
	TYPE A GUTTER (INLET, OUTLET & ENTRANCE)
	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS \geq 45 MPH
	LANE CLOSURE, FREEWAY / EXPRESSWAY, WITH CROSSOVER AND BARRIER
	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS \geq 45 MPH TO 55 MPH
	LANE CLOSURE, MULTILANE, FOR SPEEDS \geq 45 MPH TO 55 MPH
	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS \geq 45 MPH
	TRAFFIC CONTROL DEVICES
	TEMPORARY CONCRETE BARRIER
	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

MIXTURES TABLE

	HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT
OPERATION	MIXTURE TYPE	AIR VOIDS @ NDES	PROGRAM (QMP)
PAVEMENT AND SHOULDER	HMA SURFACE COURSE, MIX "D", N70, (IL 9.5 mm), 1¾"	4% @ 70 GYR.	QC/QA
RESURFACING	LEVELING BINDER (MACHINE METHOD), N70, (IL 9.5 mm), ¾"	4% @ 70 GYR.	QC/QA
QMP DESIGNATIONS: QUAL	ITY CONTROL/QUALITY ASSURANCE (QC/QA);	•	

NOTES:

- 1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON -POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
- FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
- QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE

GENERAL NOTES

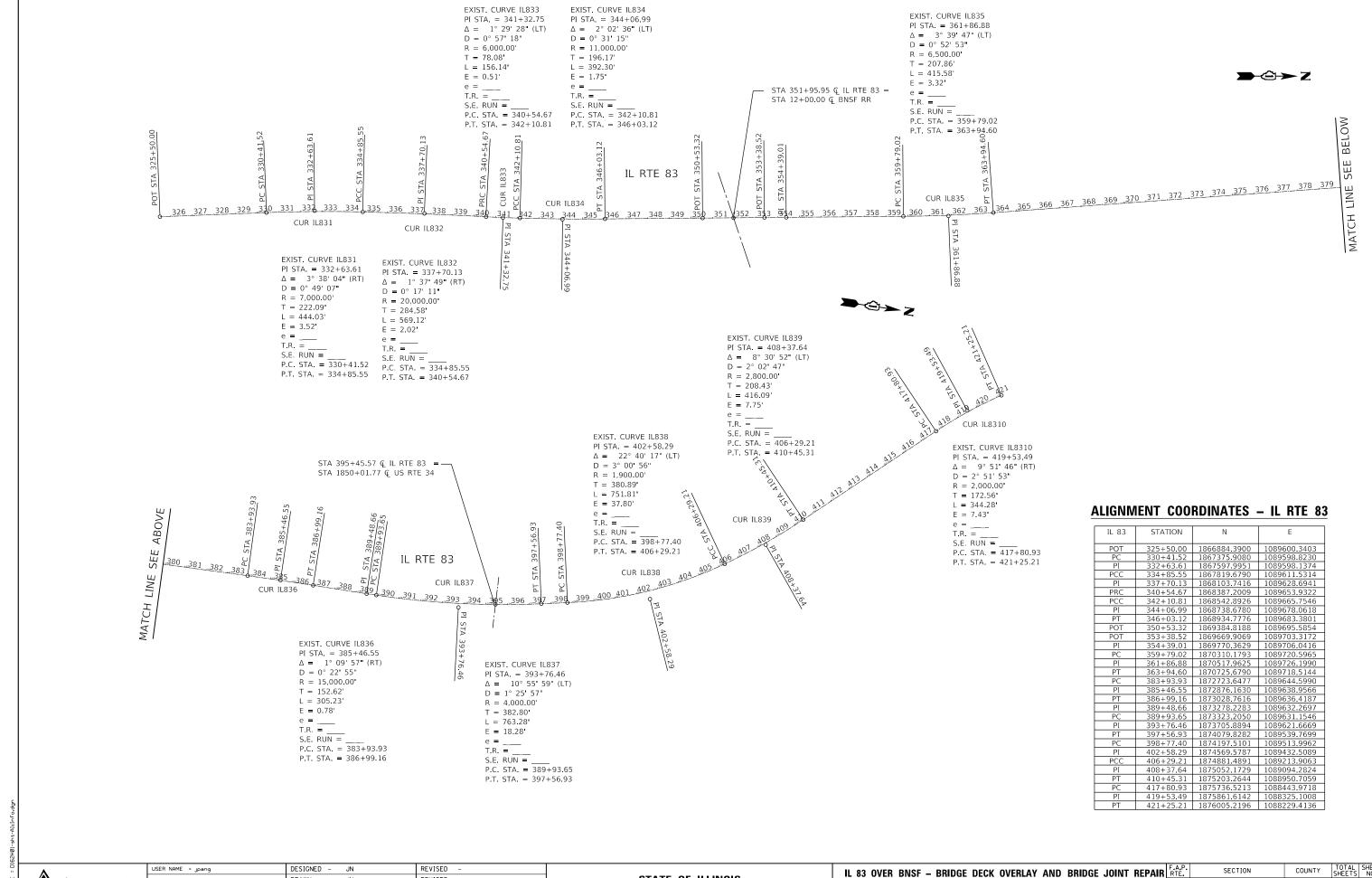
- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOURS NOTIFICATION REQUIRED).
- 2. NO CONSTRUCTION SHALL BEGIN UNTIL ALL PROPER TEMPORARY SIGNS AND BARRICADES HAVE BEEN
- 3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE LOCAL MUNICIPALITY.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.
- 5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIEY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS
- 7. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- 10. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING PLANS ARE SUBJECT TO FIELD VARIATION. THE CONTRACTOR SHALL FIELD VERIFY EXISTING DIMENSIONS AND DETAILS AFFECTING NEW CONSTRUCTION OR ORDERING MATERIALS. SUCH VARIATION SHALL NOT BE CAUSE FOR ADDITIONAL COMPENSATION FOR A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR QUANTITY ACTUALLY FURNISHED BASED AT THE UNIT PRICE BID FOR THE WORK.
- 11. UNLESS OTHERWISE NOTED IN THE PLANS OR CONTRACT SPECIFICATIONS, THE CONTRACTOR SHALL SURVEY THE TOP OF RAIL OF EACH RAILROAD TRACK A MINIMUM OF 1000-FT ON EACH SIDE OF THE OVERPASS STRUCTURE IN 50' INCREMENTS BEFORE BEGINNING CONSTRUCTION. IN ADDITION, UPON COMPLETION OF STRUCTURE 022-0155, THE CONTRACTOR SHALL MEASURE THE RESULTING HORIZONTAL AND VERTICAL CLEARANCES AND SUBMIT THEM TO THE ENGINEER FOR REVIEW AND INCLUSION IN THE RECORD DRAWINGS. THIS WORK SHALL BE INCLUDED IN THE COST OF CONSTRUCTION LAYOUT).
- 12. PROTECTIVE SHIELD SHALL BE INSTALLED IN ALL AREAS INVOLVING CONCRETE REMOVAL TO PREVENT DEBRIS FROM ENTERING RAILROAD OR ROADWAY RIGHT OF WAY. THE LOCATIONS SHALL BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO CONCRETE REMOVAL.
- 13. ALL SAW CUTTING REQUIRED SHALL BE INCLUDED IN THE CORRESPONDING REMOVAL PAY ITEMS AND SHALL BE PERFORMED PRIOR TO BEGINNING REMOVALS.
- 14. THE ENGINEER SHALL CONTACT DON CHIARUGI, IDOT'S AREA TRAFFIC FIELD ENGINEER, VIA E-MAIL AT DON.CHIARUGI@ILLINOIS.GOV, A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMNT MARKINGS
- 15. THE CONTRACTOR SHALL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT (847)705-4171 AT LEAST 2 WEEKS PRIOR TO BEGINNING ANY FORESTRY WORK FOR LAYOUT.

CHASTAIN & ASSOCIATES LLC

USER NAME = _USER_	DESIGNED -	JKP	REVISED -
	DRAWN -	DMW	REVISED -
PLOT SCALE = 2.0000 ' / in.	CHECKED -	SPF	REVISED -
PLOT DATE = 1/14/2019	DATE -	11-02-2018	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL 83 OVER US	34 & BN	SF – BR	IDGE DE	CK OVER	LAY AND JOINT	REPAIR	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
INDEX	TE CHEETS	STATE 9	STANDAR	חמא פת	CENERAL NOTES		344	2018-041-BD&BJR	DuPAGE	51	2
INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES							SN 022-0155 & SN 022-0157 CON		CONTRACT	FRACT NO. 62H01	
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS FED. A	ID PROJECT		



Accurate GROUP, INC.

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,		DRAWN -	-	JN	REVISED -	
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STATE OF ILLINOIS					
DEPARTMENT	OF TRANSPORTATI	NO			

Ī	IL 83 OVER BI	ISF – BI	RIDGE DE	CK OVER	LAY AND	BRIDGE JOINT	REPAIR	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ı	ALIGNMENT INFORMATION						344	2018-041-BD&BJR	DuPAGE	51	3	
ļ	ALIGNWENT IN ORMATION									CONTRACT	NO.	62H01
l	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.			ILLINOIS FED. AI	D PROJECT		

					NHPP FUNDS	
				80% FED 20% STATE		80% FED 20% STATE
CODE			TOTAL	STRUCTURES		STRUCTURE
NO.	ITEM	UNIT	QUANTITY	0013		0013
			QUANTITI	IL 83		022-0157
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	10.5	10.5		
28000510	INLET FILTERS	EACH	1	1		
28100125	STONE RIPRAP, CLASS B3	SQ YD	10	10		
	STONE RIFRAF, CEASS BS	30 10	10	10		
8200200	FILTER FABRIC	SQ YD	10	10		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	171	171		
40600635	LEVELING BINDED (MACHINE METURE) NZO	TON	60	60		
40600635	LEVELING BINDER (MACHINE METHOD), N70	TON	60	60		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	925	925		
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	56	56		
10603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	140	140		
14000152	HOT-MIX ASPHALT SURFACE REMOVAL, 3/4"	SQ YD	1,137	1,137		
44000400	GUTTER REMOVAL	FOOT	637	637		
44000100	PAVEMENT REMOVAL	SQ YD	240	240		
44004250	PAVED SHOULDER REMOVAL	SQ YD	30	30		
		34 10				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	82	82		
48300300	PORTLAND CEMENT CONCRETE SHOULDERS 8"	SQ YD	30	30		

★ = SPECIALTY ITEMS

& ASSOCIA	
CONSULTING	ENGINEERS
184-00	01397

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83 OVER	US 34 & E	BNSF -	- BRI	DGE DE	CK OVERLA	AY AND	JOINT	REPAIR	F.A.P. RTE.	
					NTITIES				344	Г
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				STRUCTURES	STRUCTURE	
CODE	ITEM	UNIT	TOTAL -	0013	0013	
NO.			QUANT I TY -	IL 83	022-0157	
50102400	CONCRETE REMOVAL	CU YD	82.0	34.8	47.2	
50157300	PROTECTIVE SHIELD	SQ YD	2,198	1337	861	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	91.2	38.6	52.6	
50300260	BRIDGE DECK GROOVING	SQ YD	3,446	1828	1,618	
50300300	PROTECTIVE COAT	SQ YD	559	305	254	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	16,730	6520	10,210	
50800515	BAR SPLICERS	EACH	52	26	26	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	321	130	191	
52100020	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH	28		28	
52100510	ANCHOR BOLTS, 3/4"	EACH	112		112	
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	5		5	
60260100	INLETS TO BE ADJUSTED	EACH	1	1		
60602500	CONCRETE GUTTER, TYPE A	FOOT	637	637		
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	27	27		
63800920	MODULAR GLARE SCREEN SYSTEM, TEMPORARY	FOOT	11,525	11,525		

X = SPECIALTY ITEMS

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CONSULTING	ENGINEERS
184-00	01397

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CONSTRUCTION CODE

				NHPP FUNDS		
				80% FED 20% STATE		80% FED 20% STATE
CODE			TOTAL	STRUCTURES		STRUCTURE
NO.	ITEM	UNIT	QUANTITY	0013		0013
- NO .			QUANTITI	IL 83		022-0157
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	6		6
67100100	MOBILIZATION	L SUM	1	0.5		0.5
70100315	TRAFFIC CONTROL AND PROTECTION, STANDARD 701422	EACH	8	8		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	56		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	1,252	1,252		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	418	418		
, 0300130	SHORT TELEST FARRENCE RESIDENCE		110	110		
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	17,678	17,678		
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	27,988	27,988		
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	4,378	4,378		
70300900	PAVEMENT MARKING TAPE, TYPE IV - LETTERS AND SYMBOLS	SQ FT	166	166		
70300904	PAVEMENT MARKING TAPE, TYPE IV 4"	FOOT	50,517	50,517		
70300908	PAVEMENT MARKING TAPE, TYPE IV 8"	FOOT	3,102	3,102		
70300912	PAVEMENT MARKING TAPE, TYPE IV 12"	FOOT	198	198		
		1.001	155	150		
70400100	TEMPORARY CONCRETE BARRIER	FOOT	5,763	5,763		
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	5,763	5,763		

★ = SPECIALTY ITEMS

CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS 184-001397

USER NAME = _USER_	DESIGNED	-	JKP	REVISED -
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PLOT DATE = 12/13/2018	DATE	-	11-02-2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

L 83 OVER US	34 &	BNSF	- B	RIDG	E DEC	K OVERLA	Y AND	JOINT	REPAIR	F.A.P. RTE.
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CODE	, TEM		TOTAL _	STRUCTURES		STRUCTURE
NO.	ITEM	UNIT	QUANT I TY -	0013		0013
				IL 83		022-0157
70400600	RELOCATE TEMPORARY CONCRETE BARRIER, STATE OWNED	FOOT	2,975	2,975		
70600260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2		
70600332	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	1	1		
70000000	TUEDMODU ACTUG DAVEMENT MADIVING LUNG AU	5007	15 010	15.010		
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	15,818	15,818		
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	3,898	3,898		
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	540	540		
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12	1001	340	540		
78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	1,620	1,620		
78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	480	480		
78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	60	60		
/8100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	40	40		
78100300	REPLACEMENT REFLECTOR	EACH	344	344		
7020000			576	576		
/8200011	BARRIER WALL REFLECTORS, TYPE C	EACH	570	570		
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	40	40		
X0323491	SLOPE WALL CRACK SEALING	FOOT	461			461
			.51			
X0325748	ACRYLIC COATING	SQ YD	298	24		274

CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS 184-001397

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

L 83 OVER US	34 &	BNSF	- E	RIDG	E DEC	K OVERLAY	AND	JOINT	REPAIR	F.A.P. RTE.
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				NHPP FUNDS				
				80% FED 20% STATE		80% FED 20% STATE		
CODE			TOTAL	STRUCTURES		STRUCTURE		
CODE	ITEM	UNIT	TOTAL	0013		0013		
NO .			QUANT I TY	IL 83		022-0157		
X0325749	FIBER WRAP	SQ FT	1,348	119		1229		
X0326331	CLEANING AND PAINTING BEARINGS	EACH	100	72		28		
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	9,412	9,412				
X0327900	TREE REMOVAL (UNDER 6 INCH DIAMETER SAWED FLUSH)	IN DIA	16	16				
X1700078	REMOVE AND RE-ERECT EXISTING SOUND BARRIER WALL	FOOT	215	215				
X2700003	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	240	240				
X2700005	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - INLAID - LINE 7"	FOOT	240	240				
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1				
X7010410	SPEED DISPLAY TRAILER	CAL MO	12	12				
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	47,844	47,844				
X7040210	RELOCATE TEMPORARY CONCRETE BARRIER, SPECIAL	FOOT	2,788	2,788				
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	344	344				
Z0001899	JACK AND REMOVE EXISTING BEARINGS	EACH	28			28		
70006014	BRIDGE DECK LATEX CONCRETE OVERLAY, 2 1/2 INCHES	SQ YD	3,371	1823		1,548		
2000014	DATES SECRETARY CONCRETE OVEREAT, 2 1/2 INCIES	30 10	3,3/1	1023		1,340		
Z0012130	BRIDGE DECK SCARIFICATION 3/4"	SQ YD	3,371	1823		1,548		

CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS 184-001397

 USER NAME
 = _USER_
 DESIGNED
 JKP
 REVISED

 DRAWN
 DMW
 REVISED

 PLOT SCALE
 = 2.0000 ' / in.
 CHECKED
 SPF
 REVISED

 PLOT DATE
 = 12/13/2018
 DATE
 11-02-2018
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| IL 83 OVER US 34 & BNSF - BRIDGE DECK OVERLAY AND JOINT REPAIR | F.A.P. | ST. | ST

CONSTRUCTION CODE

					CONSTRUCTION CODE	
					NHPP FUNDS	T
				80% FED 20% STATE		80% FED 20% STATE
			T07	STRUCTURES		STRUCTURE
CODE	ITEM	UNIT	TOTAL	00 13		0013
NO.			QUANTITY	IL 83		022-0157
Z0012754	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	539	49		490
Z0012755	STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES	SQ FT	107	62		45
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5		0.5
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103	103		
Z0038116	PORTLAND CEMENT CONCRETE SURFACE REMOVAL 3/4"	SQ YD	395	395		
Z0043800	PRECAST PRESTRESSED CONCRETE I-BEAM REPAIR	SQ FT	13	6		7
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1		
Z0062456	TEMPORARY PAVEMENT	SQ YD	240	240		
		UNIT		6		
Z0064800	SELECTIVE CLEARING	ONTT	6	Ü		
Z0076600	TRAINEES	HOUR	500	500		
Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500		
					4	
Ø 0042	1	1			· · · · · · · · · · · · · · · · · · ·	SPECIALTY ITEMS

rODEL: SMODELNAMES ILE NAME: D162H01-sht-SOQ1.dg

CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS 184-001397

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION IL 83 OVER US 34 & BNSF - BRIDGE DECK OVERLAY AND JOINT REPAIR F.A.P.
SUMMARY OF QUANTITIES

SCALE: SHEET 6 OF 6 SHEETS STA. TO STA.

CONSTRUCTION CODE

 PAIR RTE.
 F.A.P. RTE.
 SECTION
 COUNTY SHEETS NO.
 TOTAL SHEETS NO.
 SHEET NO.

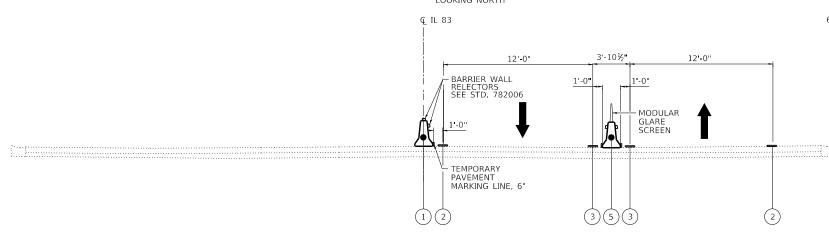
 344
 2018-041-BD&BJR
 DuPAGE
 51
 8A

 SN 022-0155 & SN 022-0157
 CONTRACT NO. 62H01

 ILLINOIS FED. AID PROJECT

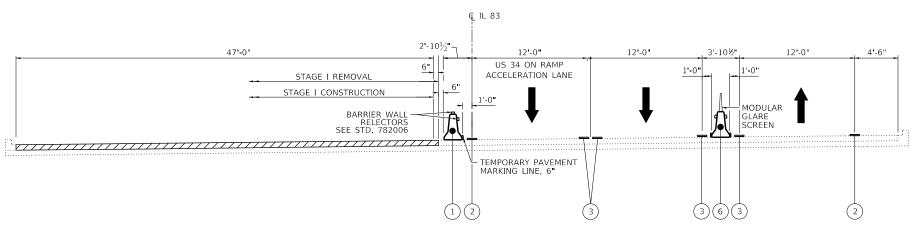
MAINTENANCE OF TRAFFIC ROADWAY TYPICAL SECTION STAGE I

STRUCTURE 022-0155 (OVER BNSF)



MAINTENANCE OF TRAFFIC ROADWAY TYPICAL SECTION STAGE I

IL 83 STA. 361+57 TO STA 384+30 LOOKING NORTH



MAINTENANCE OF TRAFFIC ROADWAY TYPICAL SECTION STAGE 1

STRUCTURE 022-0157 (OVER US 34) LOOKING NORTH

MAINTENANCE OF TRAFFIC LEGEND

- (1) RELOCATE TEMPORARY CONCRETE BARRIER, STATE OWNED
- (4) PAVEMENT MARKING TAPE, TYPE IV LINE 4" (WHITE SKIP DASH 2' DASH, 6' SKIP)
- 2 PAVEMENT MARKING TAPE, TYPE IV LINE 4" (WHITE)
- (5) TEMPORARY CONCRETE BARRIER
- (3) PAVEMENT MARKING TAPE, TYPE IV LINE 4" (YELLOW)
- 6 RELOCATE TEMPORARY CONCRETE BARRIER

& ASSOCIATES LLC CONSULTING ENGINEERS 184-001207

USER NAME = _USER_	DESIGNED -	JKP	REVISED -
	DRAWN -	DMW	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	SPF	REVISED -
PLOT DATE = 1/9/2019	DATE -	11-02-2018	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCALE:

SUGGESTED SEQUENCE OF CONSTRUCTION & MAINTENANCE OF TRAFFIC

STAGE

- INSTALL ADVANCED WIDTH RESTRICTION SIGNAGE, REMOVE CURB AND GUTTER AS SHOWN IN PLAN, INSTALL TEMPORARY PAVEMENT, RELOCATE EXISTING TEMPORARY CONCRETE BARRIER (STATE OWNED), AND INSTALL ADDITIONAL TEMPORARY CONCRETE BARRIER UTILIZING STANDARD 701422-10.
- 2. INSTALL STAGE I TRAFFIC CONTROL ALONG IL ROUTE 83. SHIFT TRAFFIC TO NORTH BOUND LANES TO STAGE I TRAFFIC LANES.
- 3. PERFORM BRIDGE REPAIRS ON WEST SIDE ABUTMENTS, PIERS, BEAMS, AND BEARINGS.
- . COMPLETE BRIDGE DECK PATCHING, JOINT REPLACEMENT, HMA MILLING, BUTT JOINTS, OVERLAY APPROACH SLAB, SLOPE WALL REPAIR, AND SCARIFYING AND LATEX CONCRETE OVERLAY.

STAGE I

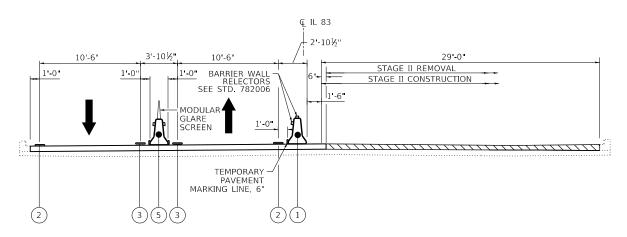
- 1. RELOCATE STAGE II TRAFFIC CONTROL ON IL ROUTE 83 AND REMOVE STAGE I TRAFFIC CONTROL DEVICES. SHIFT TRAFFIC TO SOUTH BOUND LANES TO STAGE II TRAFFIC LANES.
- PERFORM EAST SIDE BRIDGE REPAIRS ON ABUTMENTS, PIERS, BEAMS, AND BEARINGS.
- COMPLETE BRIDGE DECK PATCHING, JOINT REPLACEMENT, HMA MILLING, BUTT JOINTS, OVERLAY APPROACH SLAB, SLOPE WALL REPAIR, AND SCARIFYING AND LATEX CONCRETE OVERLAY.
- . REMOVE STAGE II TRAFFIC CONTROL DEVICES. SHIFT TRAFFIC BACK TO NORMAL LANES ALONG IL ROUTE 83.
- 5. RELOCATE TEMPORARY CONCRETE BARRIER (STATE OWNED) BACK TO CENTER MEDIAN LOCATION, REMOVE TEMPORARY PAVEMENT, AND INSTALL CURB AND GUTTER.
- 5. COMPLETE PERMANENT PAVEMENT MARKING ALONG IL ROUTE 83 UTILIZING DAYTIME LANE CLOSURES.

MAINTENANCE OF TRAFFIC GENERAL NOTES:

- 1. THE TRAFFIC CONTROL DEPICTED HEREIN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE HIGHWAY STANDARDS AS SHOWN IN THE INDEX OF SHEETS AND THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER. ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL) UNLESS OTHERWISE INDICATED WITHIN THESE GENERAL NOTES, PLANS OR SPECIAL PROVISIONS.
- 2. THE CONTRACTOR SHALL FURNISH, INSTALL, MAINTAIN AND REMOVE ALL SIGNS AND SIGN SUPPORTS REQUIRED FOR MAINTENANCE OF TRAFFIC.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING LABOR, SIGNS AND TRAFFIC CONTROL DEVICES NECESSARY FOR THE MAINTENANCE OF TRAFFIC UNLESS NOTED OTHERWISE IN THE SPECIAL PROVISIONS.
- 4. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING THE WORK.
- 5. IN ADVANCE OF ALL STAGE CHANGES ON IL ROUTE 83, THE CONTRACTOR SHALL PLACE ONE (1) PORTABLE CHANGEABLE MESSAGE SIGN AT EACH END OF THE PROJECT ALONG IL ROUTE 83 AS DIRECTED AT A LOCATION DESIGNATED BY THE ENGINEER TO INFORM MOTORISTS OF THE UPCOMING STAGE CHANGE ON IL ROUTE 83. THE MESSAGE SHALL BE ADDROVED BY THE ENGINEER
- 6. ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.
- 7. THE CONTRACTOR SHALL BE REQUIRED TO REMOVE ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH THE
- 8. THE CONTRACTOR SHALL BE REQUIRED TO MAINTAIN TRAFFIC IN ACCORDANCE WITH THE MAINTENANCE OF TRAFFIC PLANS, SPECIAL PROVISIONS, APPLICABLE STATE STANDARDS, AND AS DIRECTED BY THE ENGINEER.

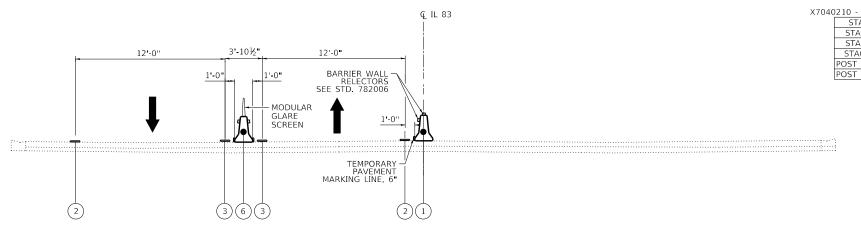
 ANY CHANGES TO THE MAINTENANCE OF TRAFFIC SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO IMPLEMENTING ANY CHANGES.
- 9. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL PROMPTLY RESPOND AT THE TIME OF NOTIFICATION BY THE ENGINEER FOR THE MAINTENANCE OF TRAFFIC CONTROL DEVICES.
- 10. THE ENGINEER SHALL BE INFORMED A MINIMUM OF 48 HOURS IN ADVANCE OF ANY PROPOSED CHANGE TO THE SUGGESTED STAGES OF CONSTRUCTION AND TRAFFIC CONTROL PLAN.
- 11. ALL TEMPORARY PAVEMENT MARKINGS SHOWING DETERIORATION AFTER SEVEN (7) DAYS OF SERVICE SHALL BE REPLACED BY THE CONTRACTOR AS DIRECTED BY THE ENGINEER. ALL MARKINGS THAT REQUIRE REPLACEMENT PRIOR TO SEVEN (7) DAYS OF SERVICE SHALL BE REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- 12. WHEN THEY ARE NO LONGER NECESSARY, ALL TRAFFIC CONTROL DEVICES SHALL IMMEDIATELY BE REMOVED, COVERED OR TURNED AWAY FROM TRAFFIC. WHEN A SIGN IS COVERED, ITS POST SHALL HAVE A REFLECTIVE 3" X 6" DELINEATOR INSTALLED. THE COST OF THE DELINEATOR IS INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).
- 13. TEMPORARY CONCRETE BARRIERS AND TEMPORARY IMPACT ATTENUATORS SHALL BE PLACED AS SHOWN IN THE PLANS. EXISTING TEMPORARY CONCRETE BARRIERS ALONG MEDIAN SHALL BE USED AS TEMPORARY CONCRETE BARRIERS ALONG WORK ZONE AND AS SHOWN IN THE PLANS. THIS WORK SHALL BE PAID FOR AS RELOCATE TEMPORARY CONCRETE BARRIER, STATE OWN. EXISTING TEMPORARY CONCRETE BARRIERS NOT BEING USED SHALL BE TEMPORARY RELOCATED TO UNUSED AREA AND APPROVED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR AS RELOCATE TEMPORARY CONCRETE BARRIER, SPECIAL. TEMPORARY CONCRETE BARRIERS SEPARATING OPPOSING TRAFFIC SHALL UTILIZE NEW TEMPORARY CONCRETE BARRIERS AND SHALL BE PAID FOR AS TEMPORARY CONCRETE BARRIER AND RELOCATE TEMPORARY CONCRETE BARRIER. ALL EXISTING TEMPORARY BARRIERS SHALL BE RELOCATED BACK TO EXISTING MEDIAN LOCATION AFTER COMPLETION OF CONSTRUCTION. FURNISHING, INSTALLING AND RELOCATING TEMPORARY CONCRETE BARRIER AND TEMPORARY IMPACT ATTENUATORS SHALL BE IN ACCORDANCE WITH IDOT SPECIAL PROVISIONS, IDOT HIGHWAY STANDARDS, STANDARD SPECIFICATIONS, AND AS DIRECTED BY THE ENGINEER.
- 14. IMMEDIATELY AFTER THE COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL RESTORE ALL PERMANENT PAVEMENT MARKINGS, SIGNS, AND OTHER TRAFFIC CONTROL DEVICES THAT WERE COVERED, REMOVED, DAMAGED OR OTHERWISE AFFECTED BY CONSTRUCTION.
- 15. FULL ACCESS THROUGH HINSDALE AVENUE UNDER THE IL 83 BRIDGE MUST BE MAINTAINED THROUGHOUT CONSTRUCTION
- 16. CONSTRUCTION ACTIVITIES CAN ONLY TAKE PLACE BETWEEN 8AM 8PM (MONDAY TO FRIDAY) AND 9AM 4PM (SATURDAY). NO CONSTRUCTION ACTIVITIES ALLOWED ON SUNDAY AND HOLIDAYS. ANY NIGHT WORK MUST BE APPROVED BY THE VILLAGE BOARD OF TRUSTEES AND THE VILLAGE MANAGER. WRITTEN REQUEST MUST BE SUBMITTED 60 DAYS PRIOR TO START OF WORK.

IL 83 OVER BNSF AND US 34 (OGDEN AVE.)		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
BRIDGE DECK OVERLAY AND BRIDGE JOINT REPAIR	344	2018-041-BD&BJR	DuPAGE	51	9
MAINTENANCE OF TRAFFIC - STAGE I TYPICAL SECTIONS			CONTRACT	NO. 62	2H01
SHEET 1 OF 6 SHEETS STA TO STA		TILLIMOTE SED A	ID DDOLECT		



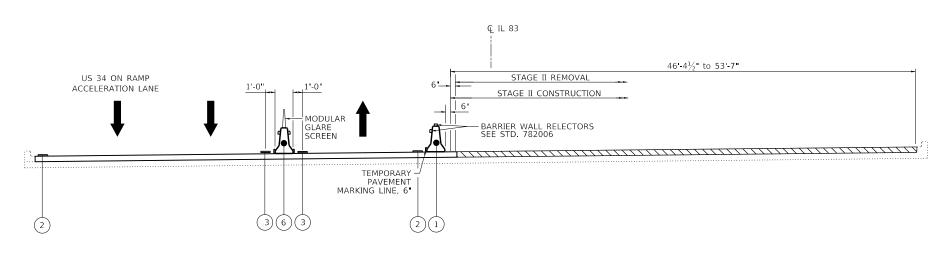
MAINTENANCE OF TRAFFIC ROADWAY TYPICAL SECTION STAGE II

STRUCTURE 022-0155 (OVER BNSF) LOOKING NORTH



MAINTENANCE OF TRAFFIC ROADWAY TYPICAL SECTION STAGE II

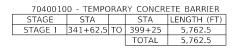
IL 83 STA. 363+68 TO STA 384+15 LOOKING NORTH



MAINTENANCE OF TRAFFIC ROADWAY TYPICAL SECTION STAGE II

STRUCTURE 022-0157 (OVER US 34) LOOKING NORTH

ADVANCED SIGNAGE AT INTERSECTIONS



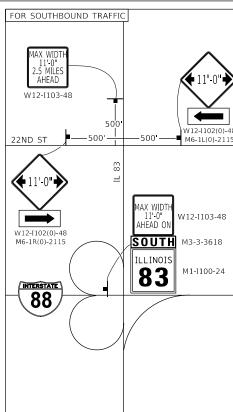
7	'0400200 - R	ELOCATE 7	ГЕМІ	PORARY C	ONCRETE BA	RRIER
	STAGE	STA		STA	LENGTH (FT)
	STAGE II	341+62.5	ТО	399+25	5,762.5	
				TOTAL	5,762.5	

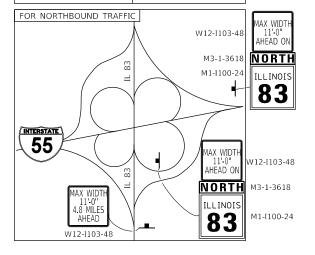
70400600 - RELOCATE TEMPORARY CONCRETE BARRIER, STATE OWNED

STAGE	SIA		SIA	LENGTH (FT)
STAGE I	348+12.5	то	356+00	787.5
STAGE I	387+85	то	397+35	950.0
STAGE II	348+29	то	356+16.5	787.5
STAGE II	393+21	ТО	397+71	450.0
			TOTAL	2,975

X7040210 - RELOCATE TEMPORARY CONCRETE BARRIER, SPECIAL

ZIO - NELOC	AIL ILM	IN CONCI	LIL DANNILIN,	
STAGE	STA		STA	LENGTH (FT)
STAGE I	341+62.5	ТО	348 + 12.5	650.0
STAGE I	397+35	ТО	399+35	200.0
STAGE II	397+71	ТО	402+71	500.0
POST STAGE	341+62.5	ТО	356+00	1,437.5
POST STAGE	387+85	ТО	399+35	1,150.0
			TOTAL	2,787.5
	STAGE STAGE I STAGE I STAGE II POST STAGE	STAGE STA STAGE I 341+62.5 STAGE I 397+35 STAGE II 397+71 POST STAGE 341+62.5	STAGE STA STAGE I 341+62.5 TO STAGE I 397+35 TO STAGE II 397+71 TO	STAGE I 341+62.5 TO 348+12.5 STAGE I 397+35 TO 399+35 STAGE II 397+71 TO 402+71 POST STAGE 341+62.5 TO 356+00 POST STAGE 387+85 TO 399+35





MAINTENANCE OF TRAFFIC LEGEND

- (1) RELOCATE TEMPORARY CONCRETE BARRIER, STATE OWNED
- 2 PAVEMENT MARKING TAPE, TYPE IV LINE 4" (WHITE)
- (3) PAVEMENT MARKING TAPE, TYPE IV LINE 4" (YELLOW)
- 4 PAVEMENT MARKING TAPE, TYPE IV LINE 4" (WHITE SKIP DASH 2' DASH, 6' SKIP)
- 5 TEMPORARY CONCRETE BARRIER
- 6 RELOCATE TEMPORARY CONCRETE BARRIER

CHASTAIN & ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

DRAWN - DMW	USER NAME = _USER_	DESIGNED - JKP	REVISED -
0.000		DRAWN - DMW	REVISED -
BLOT DATE - 1/9/2010 DATE 11.02.2019 DEVISED	PLOT SCALE = 20.0000 ' / in.	CHECKED - SPF	REVISED -
PEOF BATE = 179/2019 REVISED =	PLOT DATE = 1/9/2019	DATE - 11-02-2018	REVISED -

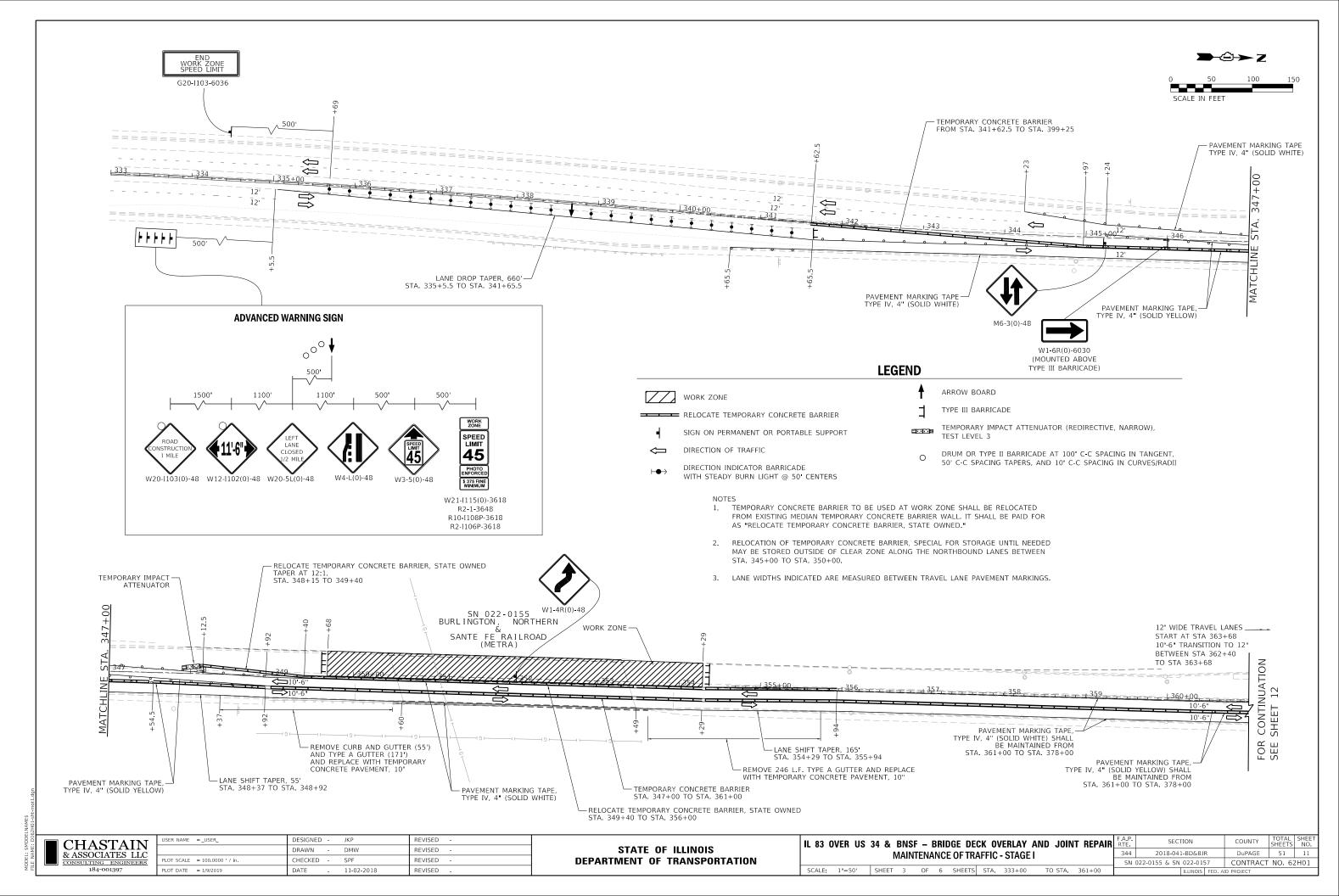
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

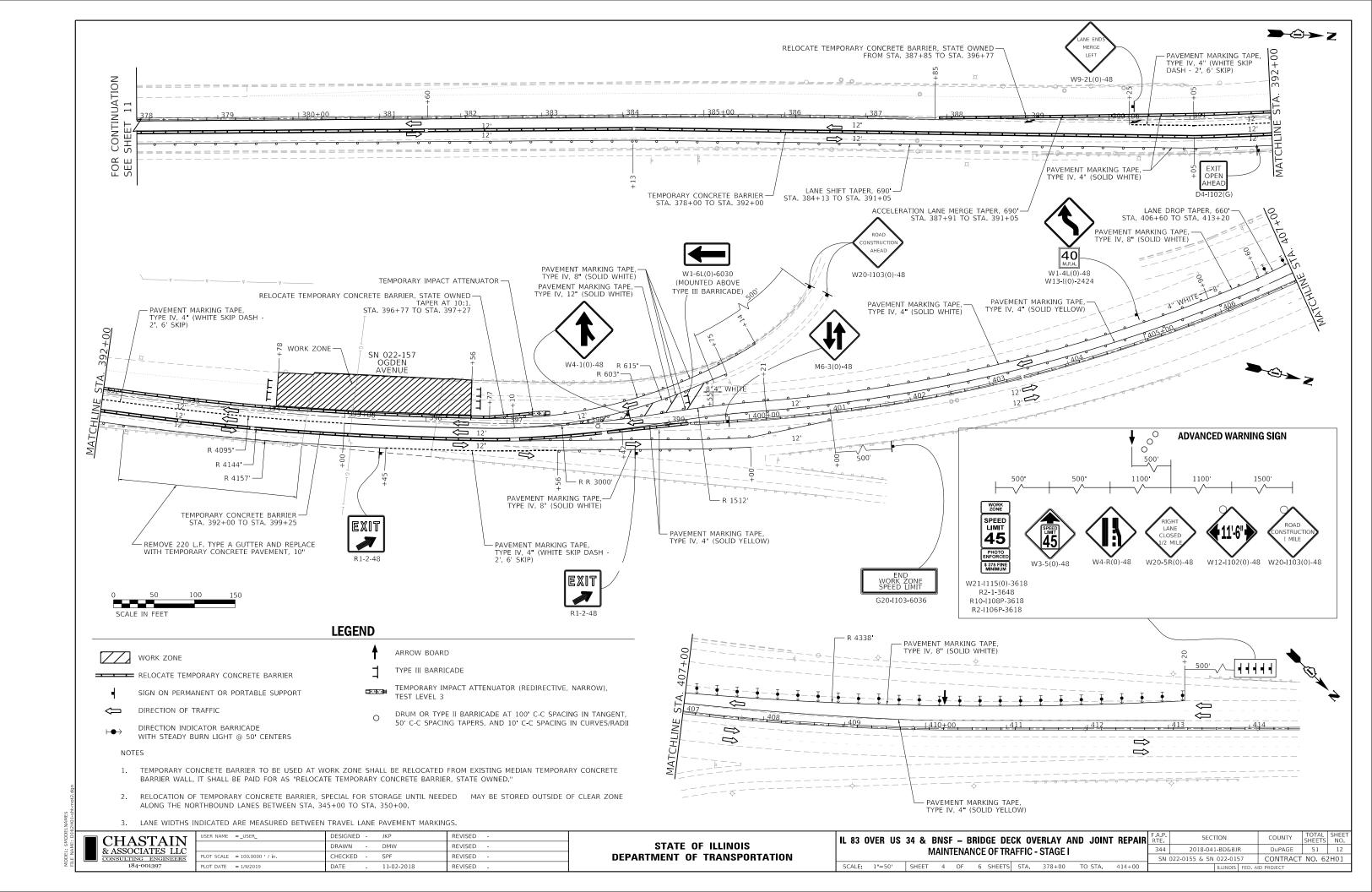
II	. 83 OV	ER B	NSF A	ND US	34	(OGDEN	AVE.)	_
							Γ REPAIR	
MAINTE	NANCE	OF T	RAFFI	C – ST/	AGE	II TYPIC <i>i</i>	L SECTIONS	

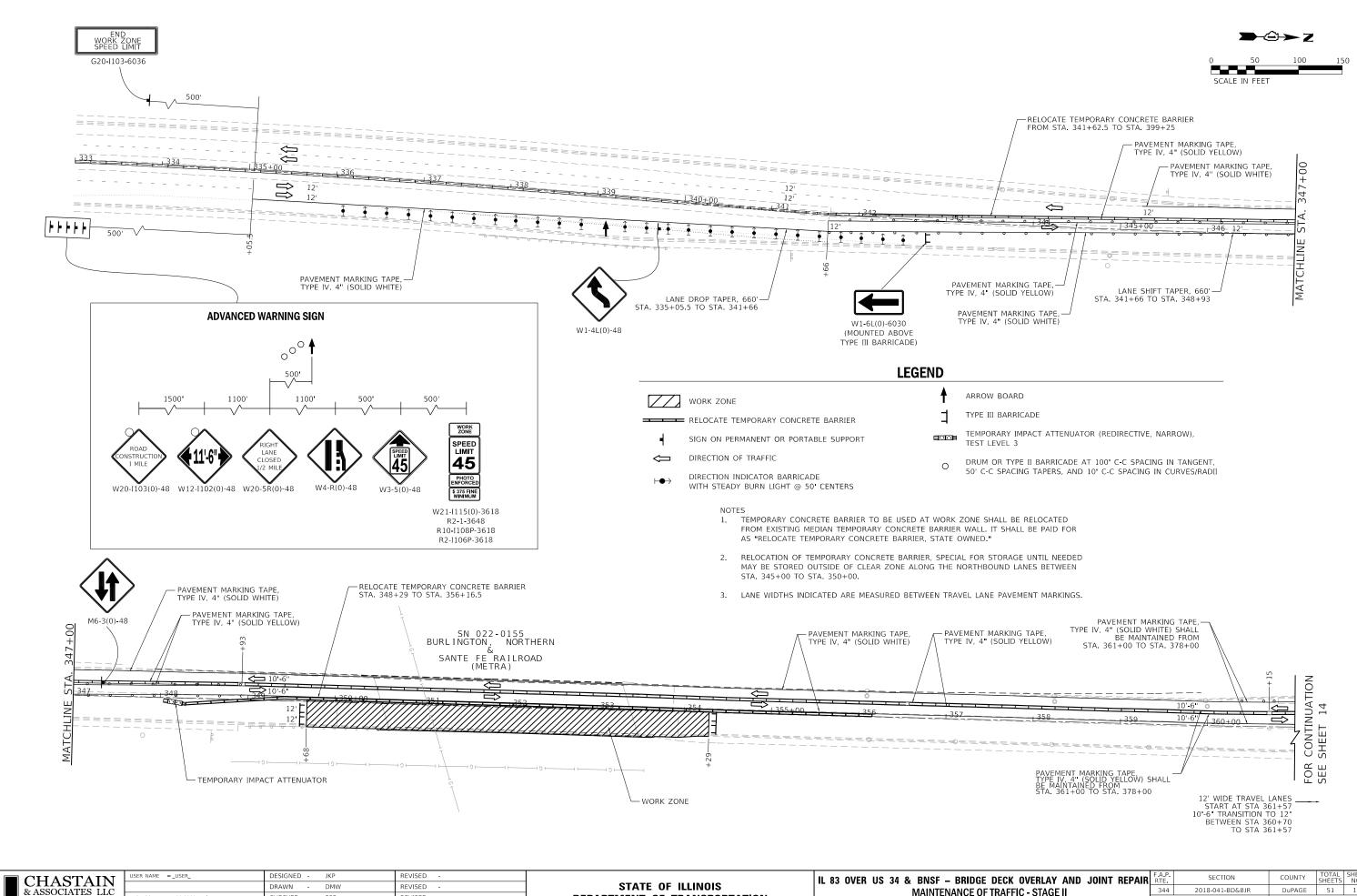
F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
344	2018-041-BD&BJ	DuPAGE 51				
		CONTRACT NO. 62H01				
	ILLINOIS	ID PROJECT				

SCALE:

SHEET 2 OF 6 SHEETS STA.



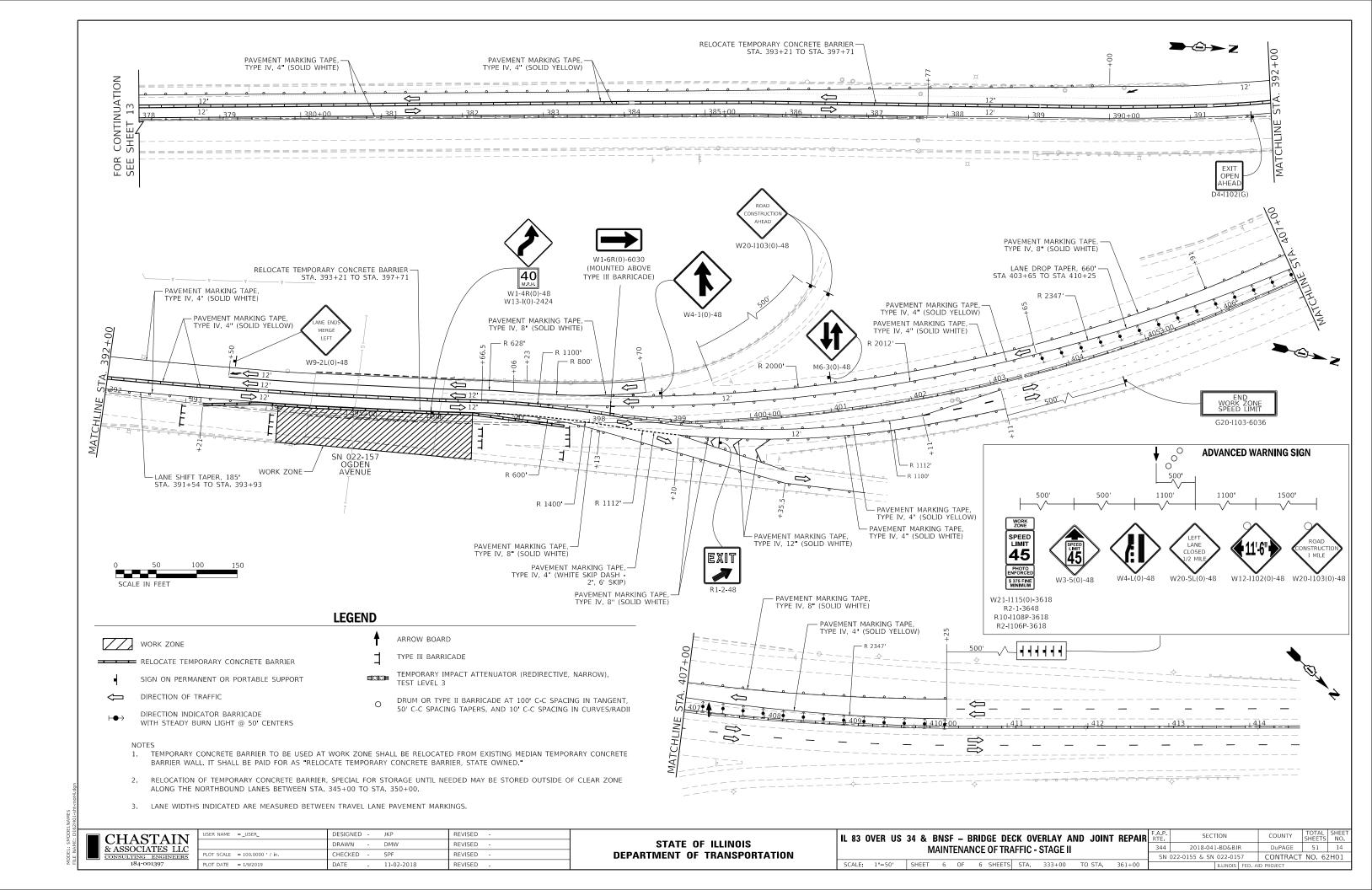


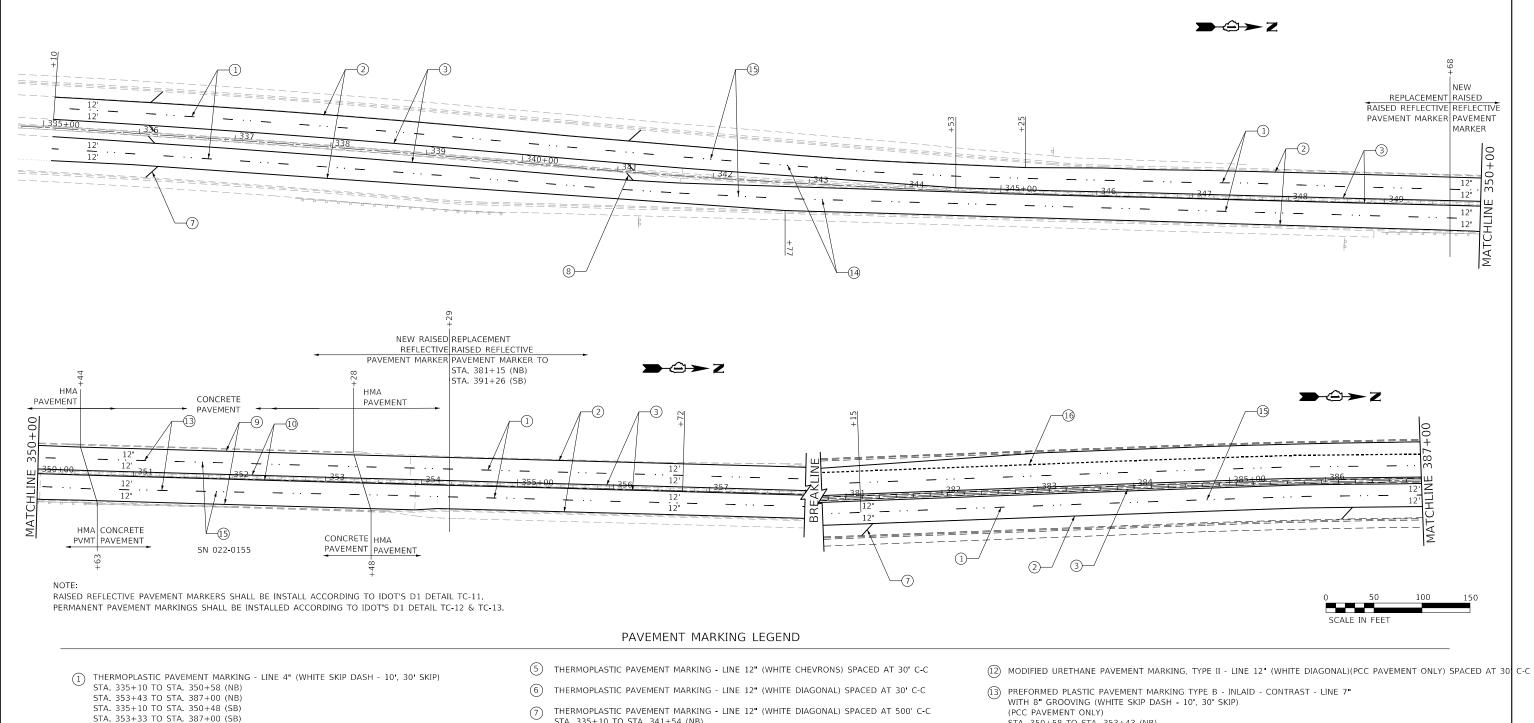


HECKED -REVISED LOT DATE = 1/9/2019 11-02-2018 REVISED

DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC - STAGE II 51 13 CONTRACT NO. 62H01 SN 022-0155 & SN 022-0157 SCALE: 1"=50' SHEET 5 OF 6 SHEETS STA. 333+00 TO STA. 361+00





- (2) THERMOPLASTIC PAVEMENT MARKING LINE 4" (SOLID WHITE) STA. 335+10 TO STA. 350+63 (NB) STA. 353+48 TO STA. 387+00 (NB) STA. 335+10 TO STA. 350+44 (SB) STA. 353+28 TO STA. 379+36 (SB)
- (3) THERMOPLASTIC PAVEMENT MARKING LINE 4" (SOLID YELLOW) STA. 335+10 TO STA. 350+53 (NB) STA. 353+39 TO STA. 356+72 (NB) STA. 381+15 TO STA. 387+00 (NB) STA. 335+10 TO STA. 350+52 (SB) STA. 353+37 TO STA. 387+00 (SB)
- (4) THERMOPLASTIC PAVEMENT MARKING LINE 8" (SOLID WHITE) STA. 379+36 TO STA. 387+00 (SB1)

- THERMOPLASTIC PAVEMENT MARKING LINE 12" (WHITE DIAGONAL) SPACED AT 500' C-C STA. 335+10 TO STA. 341+54 (NB) STA. 381+15 TO STA. 387+00 (NB) STA. 335+10 TO STA. 346+03 (SB)
- (8) THERMOPLASTIC PAVEMENT MARKING LINE 12" (YELLOW DIAGONAL) SPACED AT 500' C-C STA. 335+10 TO STA. 344+53 (NB) STA. 335+10 TO STA. 344+53 (SB)
- (9) MODIFIED URETHANE PAVEMENT MARKING, TYPE II LINE 4" (SOLID WHITE)(PCC PAVEMENT ONLY) STA. 350+63 TO STA. 353+48 (NB) STA. 350+44 TO STA. 353+28 (SB)
- MODIFIED URETHANE PAVEMENT MARKING, TYPE II LINE 4" (SOLID YELLOW)(PCC PAVEMENT ONLY) STA. 350+53 TO STA. 353+39 (NB) STA. 350+52 TO STA. 353+37 (SB)
- (1) MODIFIED URETHANE PAVEMENT MARKING, TYPE II LINE 8" (SOLID WHITE)(PCC PAVEMENT ONLY)

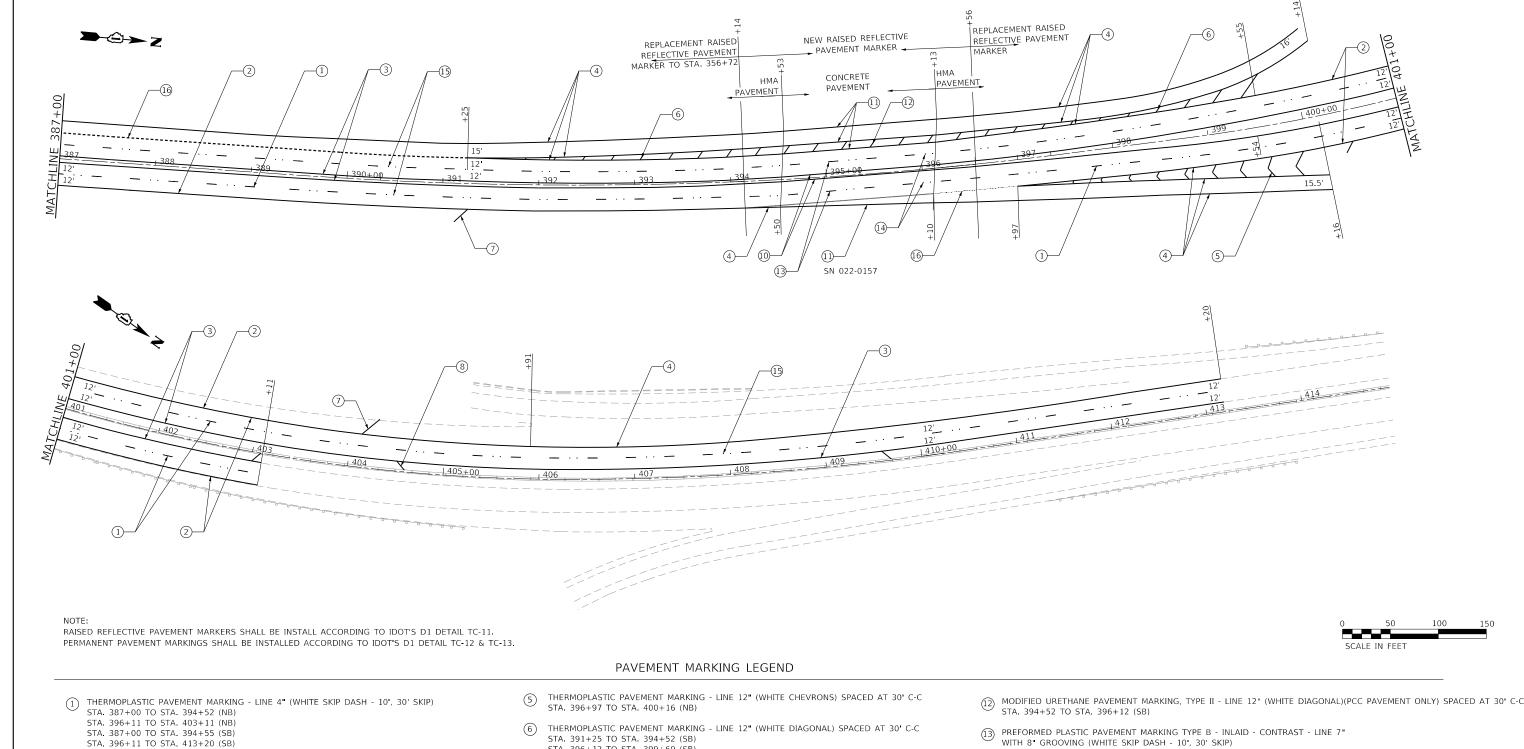
- (PCC PAVEMENT ONLY) STA. 350+58 TO STA. 353+43 (NB) STA. 350+48 TO STA. 353+33 (SB)
- (14) REPLACEMENT REFLECTOR STA. 335+10 TO STA. 349+68 (NB) STA. 335+10 TO STA. 349+68 (SB)
- (15) RAISED REFLECTIVE PAVEMENT MARKER STA. 349+68 TO STA. 387+00 (NB/SB)
- $\widehat{\mbox{(16)}}$ THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE SKIP DASH 2', 6' SKIP) STA. 379+36 TO STA. 387+00 (SB)

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CHASTAIN
& ASSOCIATES LLC
CONSULTING ENGINEERS
184-001307

USER NAME = _USER_	DESIGNED	-	JKP	REVISED -
	DRAWN	-	DMW	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED	-	SPF	REVISED -
PLOT DATE = 12/13/2018	DATE	-	11-02-2018	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL 83 OVER US	34 & BNSF – BRIDGE DI	CK OVERLAY	AND JOINT REPAIR	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PROPOSED PAVEME	NT MARKING		344	2018-041-BD&BJR	DuPAGE	51	15
	THOI USED TAVEINE	SN (022-0155 & SN 022-0157	CONTRACT	NO. 62	2H01		
SCALE: 1"=50"	SHEET 1 OF 2 SHEETS	STA. 316+10	TO STA. 387+00		ILLINOIS FED. A	ID PROJECT		



- (2) THERMOPLASTIC PAVEMENT MARKING LINE 4" (SOLID WHITE) STA. 387+00 TO STA. 394+50 (NB) STA. 400+16 TO STA. 403+11 (NB) STA. 399+55 TO STA. 405+91 (SB)
- THERMOPLASTIC PAVEMENT MARKING LINE 4" (SOLID YELLOW) STA. 387+00 TO STA. 394+52 (NB) STA. 396+11 TO STA. 403+11 (NB) STA. 387+00 TO STA. 394+52 (SB) STA. 396+12 TO STA. 413+20 (SB)
- (4) THERMOPLASTIC PAVEMENT MARKING LINE 8" (SOLID WHITE) STA. 396+10 TO STA. 400+16 (NB) STA. 394+14 TO STA. 394+50 (NB) STA. 391+25 TO STA. 394+53 (SB) STA. 396+13 TO STA. 400+14 (SB) STA. 405+91 TO STA. 413+20 (SB)

- STA. 391+25 TO STA. 394+52 (SB) STA. 396+12 TO STA. 399+60 (SB)
- THERMOPLASTIC PAVEMENT MARKING LINE 12" (WHITE DIAGONAL) SPACED AT 500' C-C STA. 387+00 TO STA. 394+50 (NB) STA. 400+16 TO STA. 403+11 (NB) STA. 399+55 TO STA. 405+91 (SB)
- THERMOPLASTIC PAVEMENT MARKING LINE 12" (YELLOW DIAGONAL) SPACED AT 500' C-C STA. 398+54 TO STA. 403+11 (NB) STA. 398+54 TO STA. 413+20 (SB)
- MODIFIED URETHANE PAVEMENT MARKING, TYPE II LINE 4" (SOLID WHITE)(PCC PAVEMENT ONLY)
- MODIFIED URETHANE PAVEMENT MARKING, TYPE II LINE 4" (SOLID YELLOW)(PCC PAVEMENT ONLY) STA. 394+53 TO STA. 396+13 (NB) STA. 394+54 TO STA. 396+14 (SB)
- MODIFIED URETHANE PAVEMENT MARKING, TYPE II LINE 8" (SOLID WHITE)(PCC PAVEMENT ONLY) STA. 394+50 TO STA. 396+10 (NB) STA. 394+54 TO STA. 396+14 (SB)

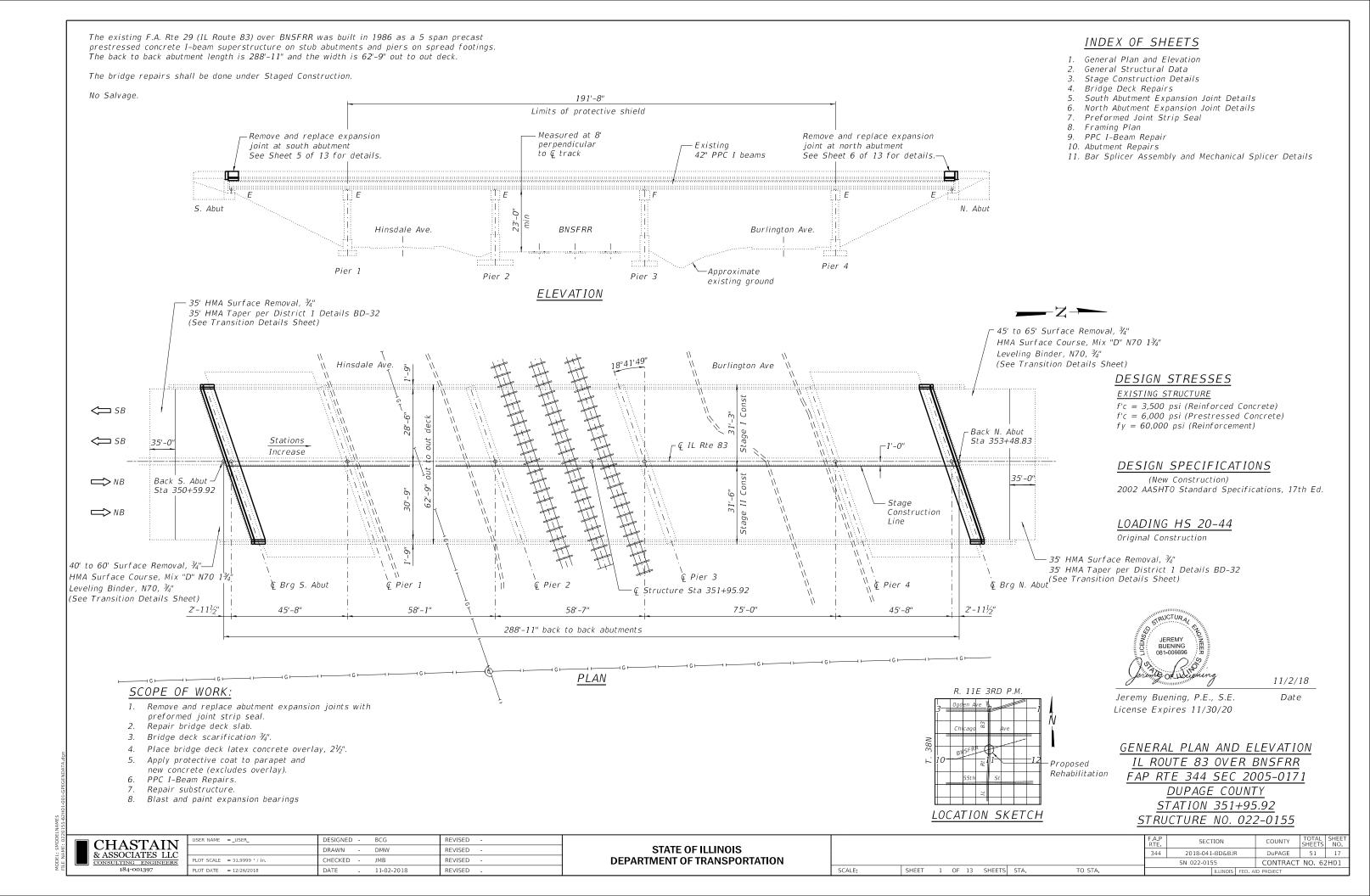
- (13) PREFORMED PLASTIC PAVEMENT MARKING TYPE B INLAID CONTRAST LINE 7" WITH 8" GROOVING (WHITE SKIP DASH 10', 30' SKIP) (PCC PAVEMENT ONLY) STA. 394+51 TO STA. 396+11 (NB) STA. 394+53 TO STA. 396+13 (SB)
- (14) REPLACEMENT REFLECTOR STA. 387+00 TO STA. 394+14 (NB) STA. 396+56 TO STA. 403+11 (NB) STA. 387+00 TO STA. 394+14 (SB) STA. 396+56 TO STA. 413+20 (SB)
- 15) RAISED REFLECTIVE PAVEMENT MARKER STA. 394+14 TO STA. 396+56 (NB/SB)
- (16) THERMOPLASTIC PAVEMENT MARKING LINE 4" (WHITE SKIP DASH 2', 6' SKIP) STA. 396+10 TO STA. 396+97 (NB) STA. 387+00 TO STA. 391+25 (SB)

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CHASTAIN	J
& ASSOCIATES LL	
CONSULTING ENGINEER	s
184-001397	

USER NAME = _USER_	DESIGNED	-	JKP	REVISED -
	DRAWN	-	DMW	REVISED -
PLOT SCALE = 100.0000 / in.	CHECKED	-	SPF	REVISED -
PLOT DATE = 12/13/2018	DATE	-	11-02-2018	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL 83 OVER US	34 & BNSF - BRIDGE DECK OVERLAY AND JOINT REPAIL	IR F.A.P. SECTION COUNTY TOTAL SHEETS NO.		
	PROPOSED PAVEMENT MARKING	344 2018-041-BD&BJR DuPAGE 51 16		
	THO COLD TAVEWENT MAINING	SN 022-0155 & SN 022-0157 CONTRACT NO. 62H01		
SCALE: 1"=50"	SHEET 2 OF 2 SHEETS STA. 387+00 TO STA. 413+20	ILLINOIS FED. AID PROJECT		



GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The CONTRACTOR shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however the CONTRACTOR will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

Joint openings shall be adjusted according to Art. 520.04. in the Standard Specs. when the deck is poured at an ambient temperature other than 50°F.

Expansion joints shall be fabricated and installed according to the Manufacturer's recommendations and as approved by the Engineer.

Expansion joints shall be fabricated to conform to the existing cross slopes of the bridge.

The steel components of all expansion bearings shall be blasted and painted according to the special provision "Cleaning and Painting Existing Steel Structures".

Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.

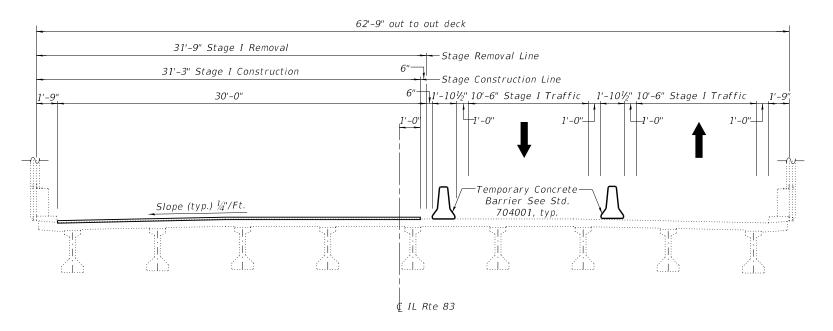
Synthetic fibers shall be added to the bridge deck Latex Concrete Overlay, see special provisions.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	34.8	-	34.8
Protective Shield	Sq. Yd.	1337	-	1337
Concrete Superstructure	Cu. Yd.	38.6	-	38.6
Bridge Deck Grooving	Sq. Yd.	1828	-	1828
Protective Coat	Sq. Yd.	305	-	305
Reinforcement Bars, Epoxy Coated	Pound	6520	-	6520
Bar Splicers	Each	26	-	26
Preformed Joint Strip Seal	Foot	130	-	130
Bridge Deck Latex Concrete Overlay, 2½"	Sq. Yd.	1823	-	1823
Bridge Deck Scarification ¾"	Sq. Yd.	1823	-	1823
Structural Repair of Concrete (Depth Equal To or Less Than 5 Inches)	Sq. Ft.	-	49	49
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	-	62	62
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	6	-	6
Acrylic Coating	Sq. Yd.	24	-	24
Cleaning and Painting Bearings	Each	72	-	72
Fiber Wrap	Sq. Ft.	119	-	119
Stone Riprap, Class B3	Sq. Yd.	-	10	10
Filter Fabric	Sq. Yd.	-	10	10

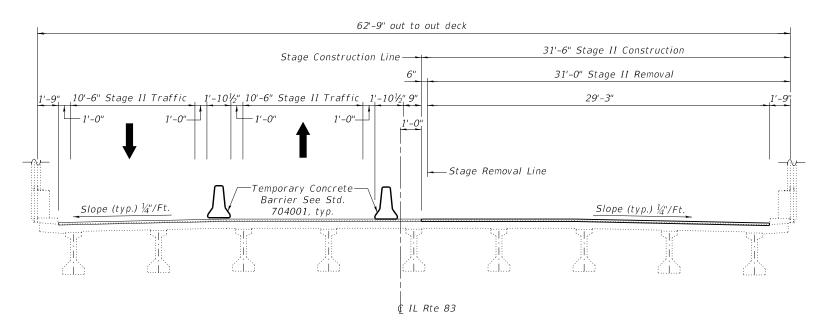
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IL ROUTE 83 OVER BNSF R.R OVERLAY AND BRIDGE REPAIRS	F.A.P RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
GENERAL STRUCTURAL DATA	344 2018-041-BD&BJR DuPAGE		51	18	
GENERAL STRUCTURAL DATA		SN 022-0155	CONTRAC	F NO. 62	2H01
SHEET 2 OF 13 SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT				



STAGE I REMOVAL & CONSTRUCTION - LOOKING NORTH

(All dimensions are perpendicular to © IL Rte 83)



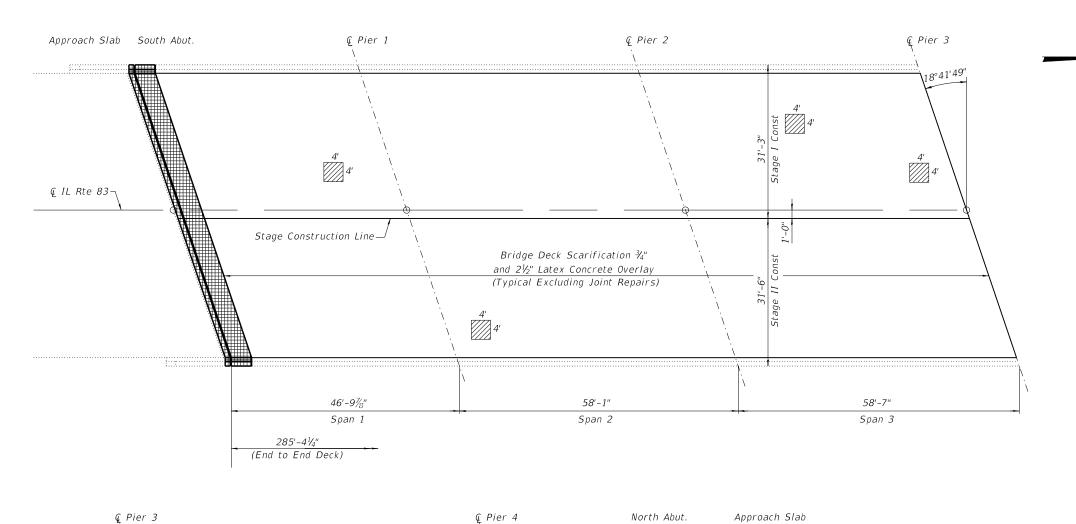
STAGE II REMOVAL & CONSTRUCTION - LOOKING NORTH

(All dimensions are perpendicular to © IL Rte 83)

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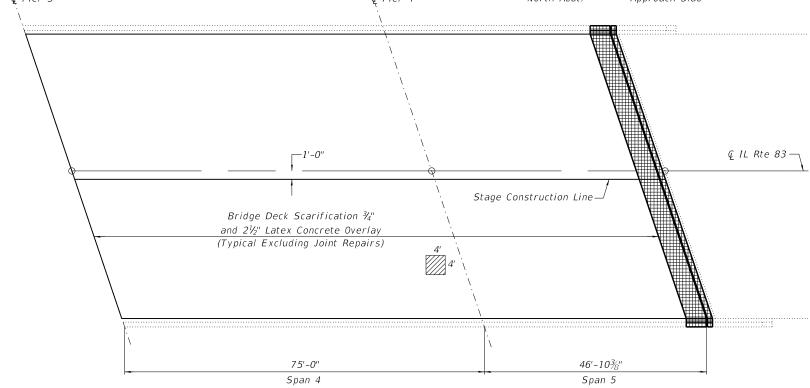
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IL ROUTE 83 OVER BNSF R.R OVERLAY AND BRIDGE REPAIRS							F.A.P RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.	
STAGE CONSTRUCTION DETAILS								344	2018-041	-BD&BJF	1	DuPAGE	51	19
									SN 022-015	55		CONTRACT	F NO. 62	2H01
:	SHEET	3	OF	13	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				$\overline{}$		



BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Protective Coat	Sq. Yd.	305
Bridge Deck Grooving	Sq. Yd.	1828
Bridge Deck Latex Concrete Overlay 2½"	Sq. Yd.	1849
Bridge Deck Scarification ¾"	Sq. Yd.	1849



<u>LEGEND</u>

Deck Slab Repair (Partial Depth)



Area of Joint Reconstruction

NOTES:

Areas of deck repairs are estimated and will be paid for as specified in the Special Provisions.

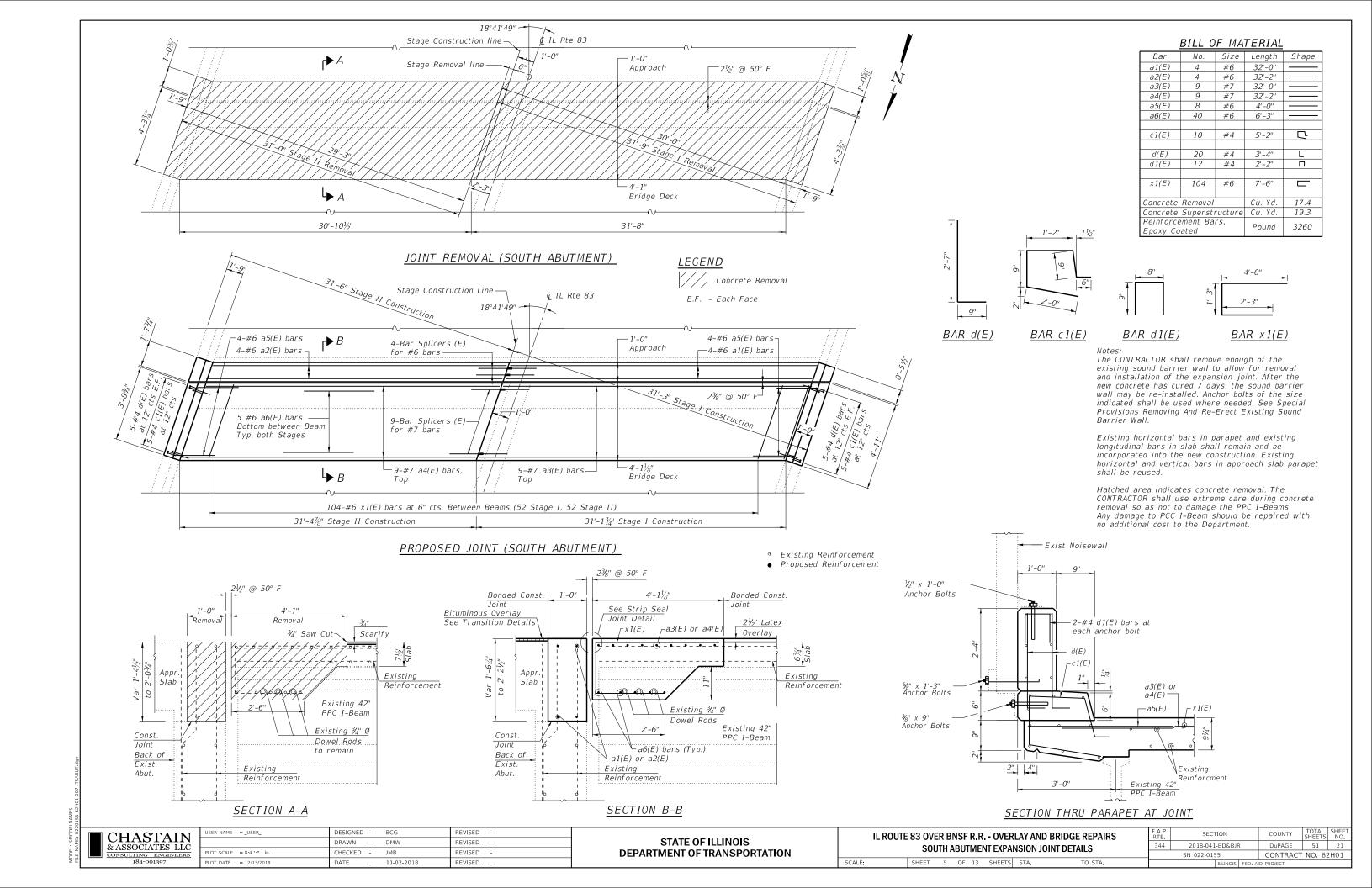
Actual type, location, and dimensions of deck repairs are to be determined and documented by the ENGINEER during construction. ENGINEER shall sound deck after deck scarification.

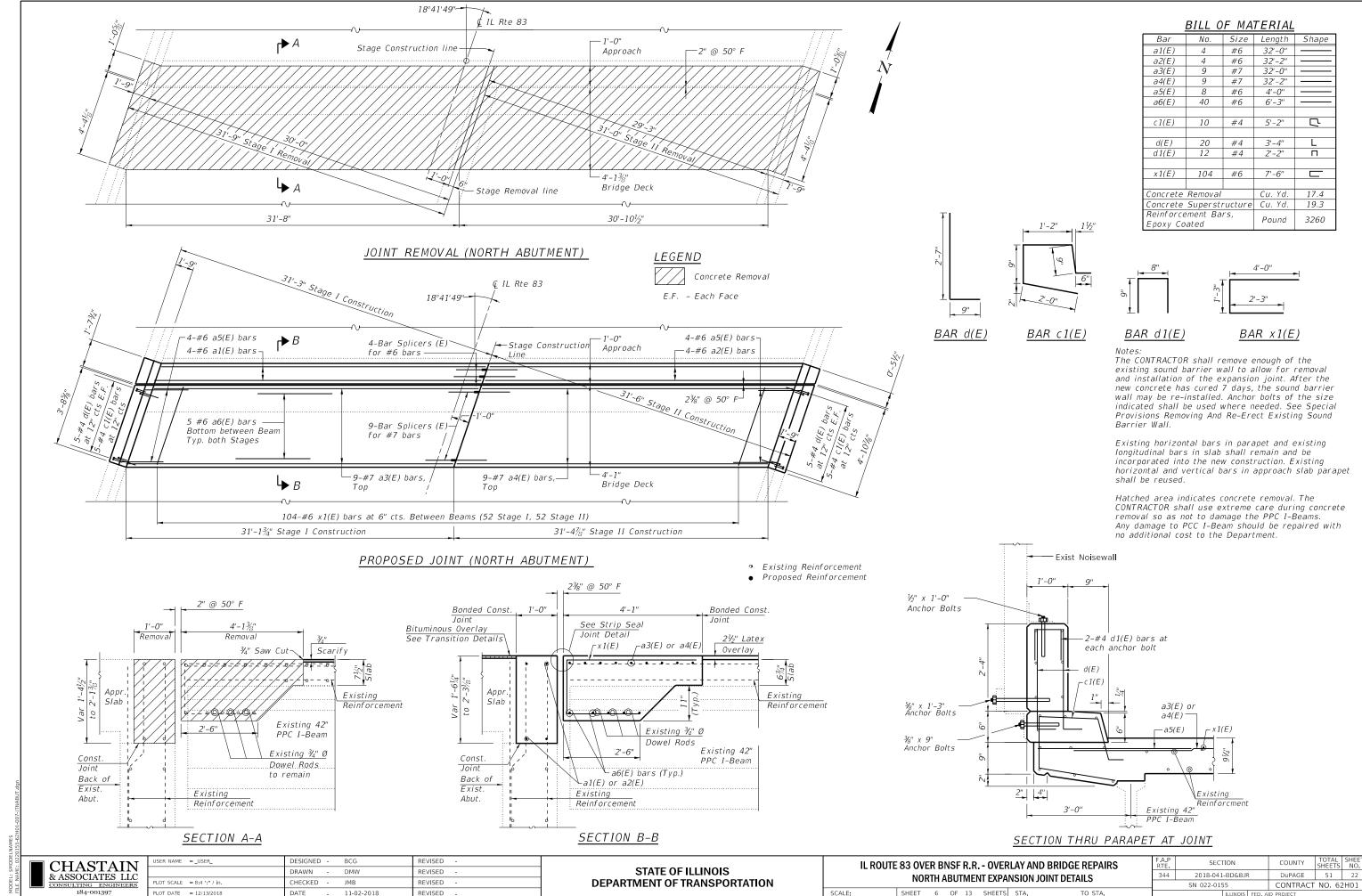
Protective Coat shall be applied to the top and inside face of all parapets and curbs as well as new concrete areas adjacent to joints. (Excludes Overlay)

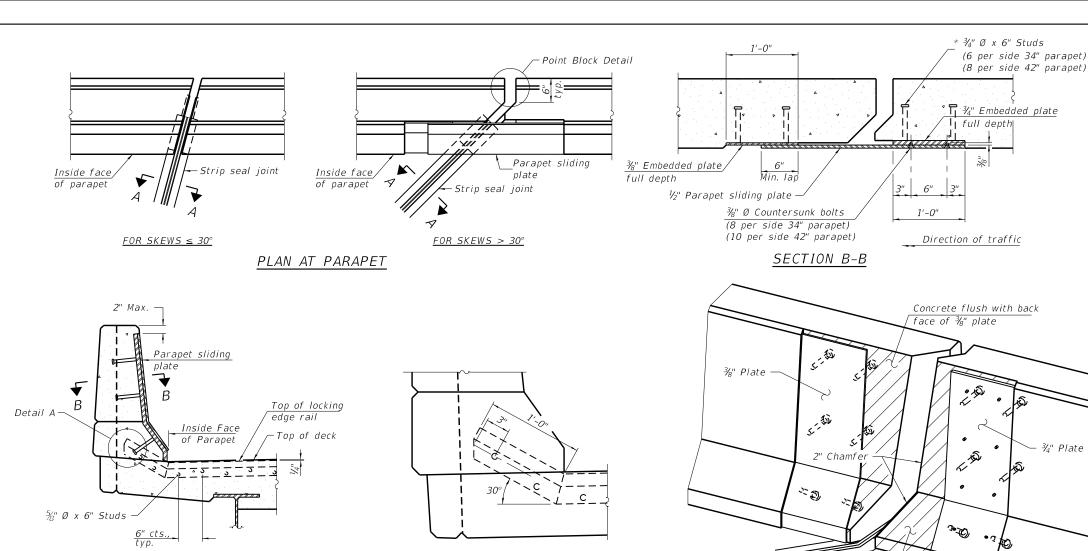
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	В	RIDGE	DECK RE	344	2018-041-BD&BJR	DuPAGE	51		
		MIDGE	DEON NE	II AIINO			SN 022-0155	CONTRACT	NO. 6
	SHEET A	OF 13	SHEETS	STA	TO STA		TILLINOIS SED A	ID DOOLECT	







ELEVATION AT PARAPET

(Skews > 30° shown. Skews ≤ 30° similar except as shown in plan view.)

DETAIL A

SECTION A-A * Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

Concrete flush with back Concrete flush with back face of ¾" plate

TRIMETRIC VIEW (Showing embedded plates only)

Locking edge railat 50° F Top of concrete Strip seal at 50° F

SHOWING ROLLED RAIL JOINT

Locking edge railat 50° F Top of concrete -Strip seal * $\frac{1}{8}$ " Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs) $\frac{3}{6}$ " ϕ threaded rods in $\frac{7}{16}$ " ϕ holes at ± 4 '-0" cts. for holding the proper joint opening based on

the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

SHOWING WELDED RAIL JOINT

LOCKING EDGE RAILS

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

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

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

applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

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

The Maximum space between locking edge rail segments shall be 36" 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.

The top surface of sidewalk sliding plates shall have a raised pattern according to ASTM A786.

Cost of parapet sliding plates, sidewalk sliding plates, embedded plates, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal.

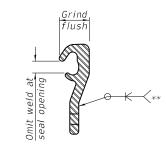
34" F-shape barrier shown, 42" F-shape similar as noted. The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

<u>ROLLED</u> WELDED RAIL (EXTRUDED) RAIL

7/16"

IL

SCALE:



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	130

EJ-SS-S

CHAST

& ASSOCIAT

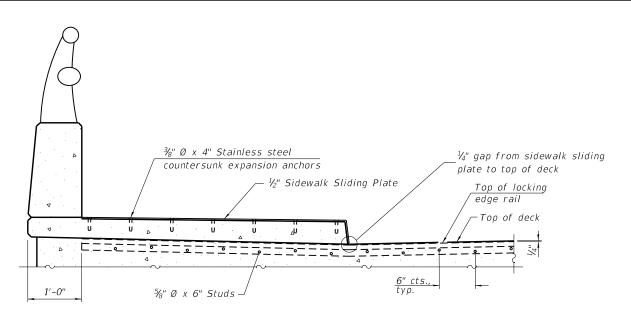
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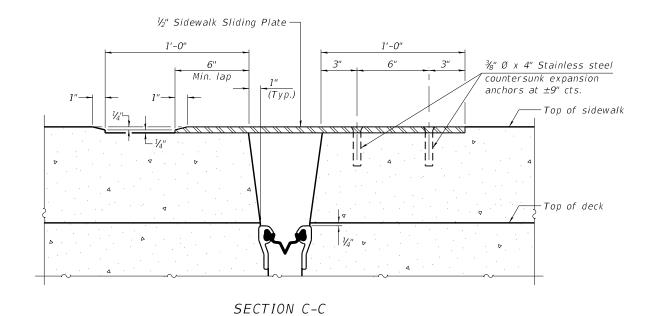
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	(Sheet 1 of 3)										
ROUTE 83 OVER BNSF R.R OVERLAY AND BRIDGE REPAIRS											
PREFORMED JOINT STRIP SEAL - SIDEWALK											
	SHEET	7	OF	13	SHEETS	STA	TO STA				

F.A.P RTE	SECT	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEE NO.
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	SN 022-015	CONTRACT	NO. 62	2H01		
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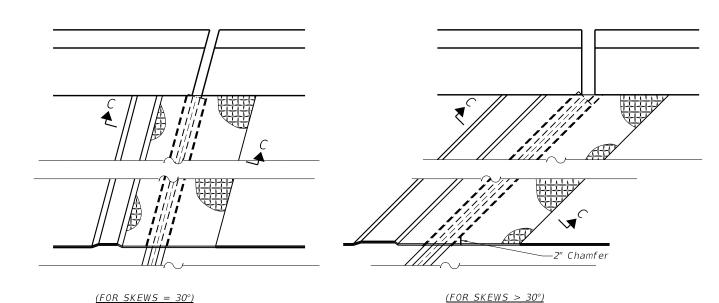
ELEVATION AT RAISED SIDEWALK



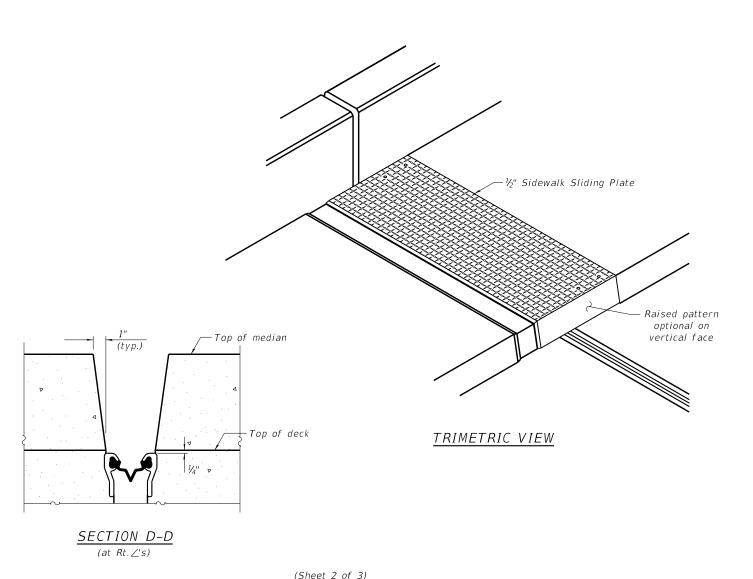
Top of Median Top of locking edge rail Top of deck Top of steel Top of locking edge rail Top of steel Top of steel Top of locking edge rail

ELEVATION AT MEDIAN

For skews > 30°, chamfer acute corners 2" similar to sidewalk.



PLAN AT RAISED SIDEWALK



EJ-SS-S

8-11-17

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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

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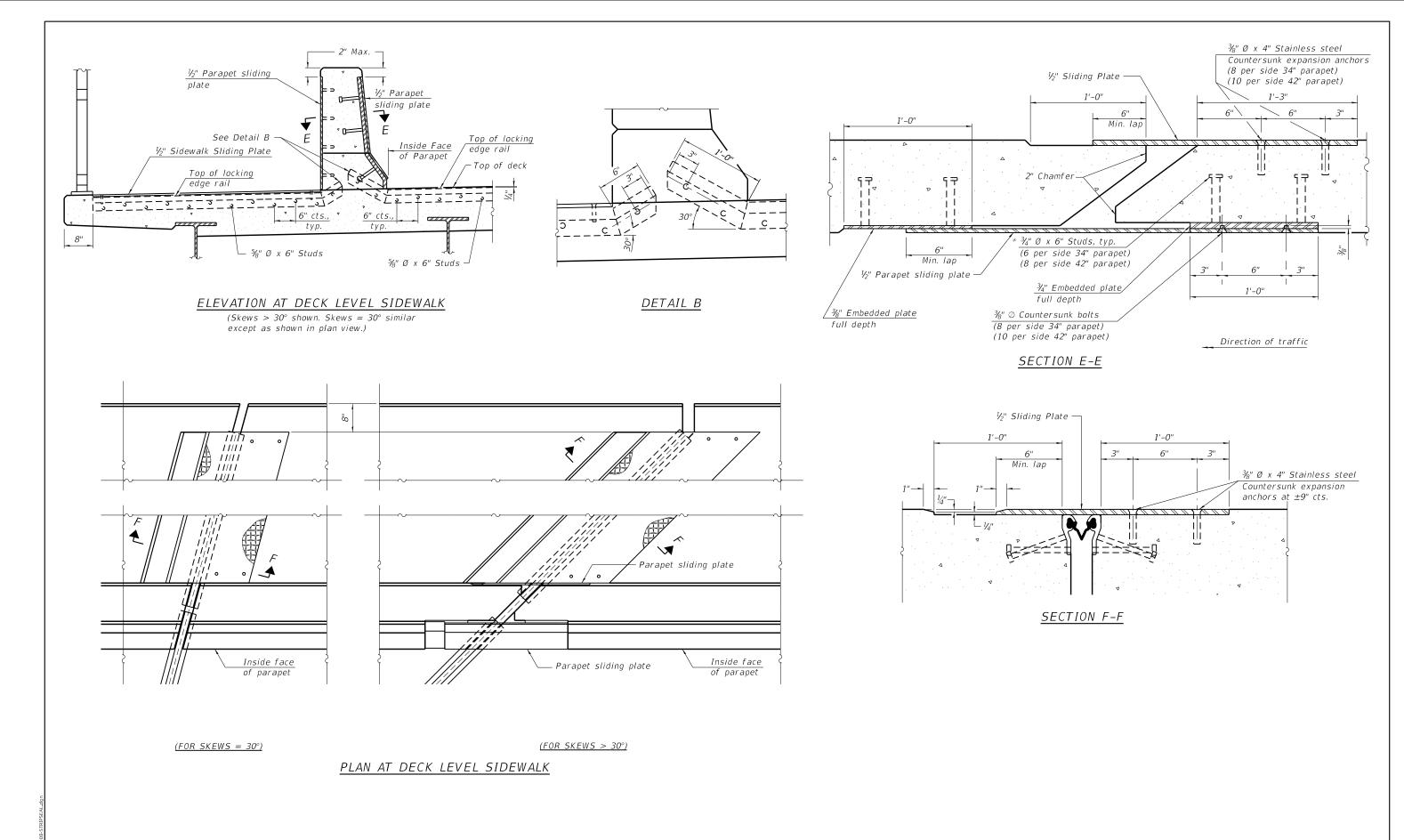
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IL ROUTE 83 OVER BNSF R.R OVERLAY AND BRIDGE REPAIRS	F.A.P RTE						
PREFORMED JOINT STRIP SEAL - SIDEWALK - II							
FREFURIVIED JUINI STRIF SEAL - SIDEWALK - II							
CHEET 9 OF 13 CHEETC CTA TO CTA							

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 SECTION
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 TOTAL SHEETS NO.

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 344
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 SN 022-0155
 CONTRACT
 NO. 62-H01

 TO STA.
 ILLINOIS FED. AID PROJECT



EJ-SS-S

8-11-17

CHASTAIN
& ASSOCIATES LLC
CONSULTING ENGINEERS
PLOT

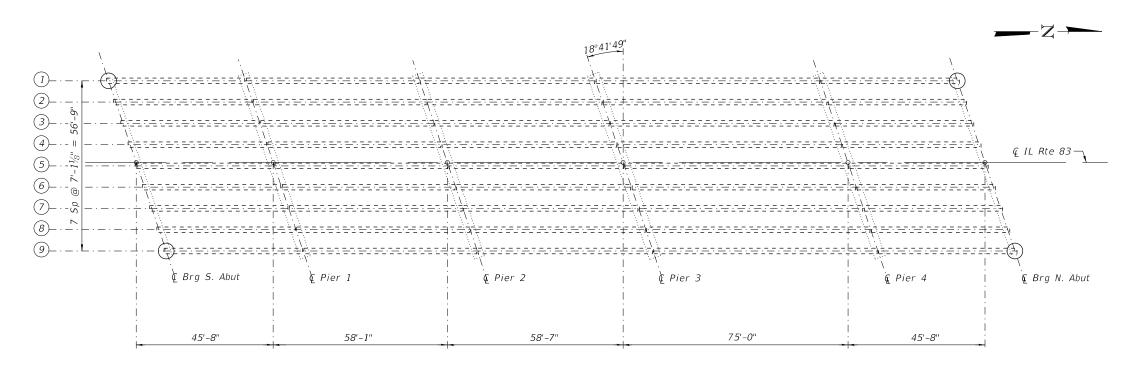
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



FRAMING PLAN

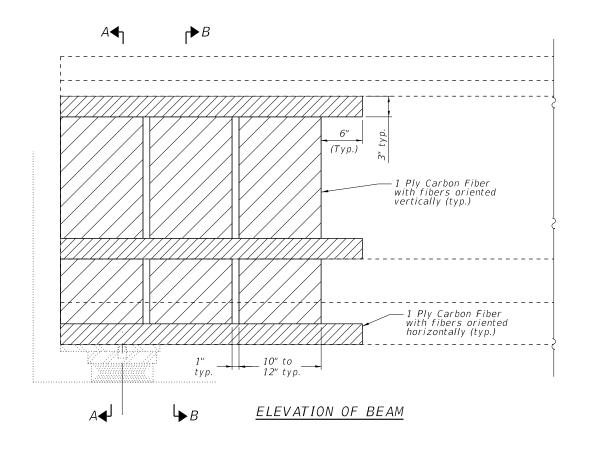
PCC I-Beam Repair (End of Beam)

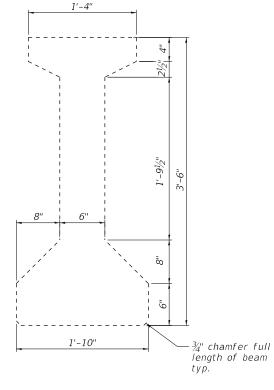
Note: Follow Special Provision "FRP Strengthening for PPC I-Beam Repairs", "Precast Prestressed Concrete I-Beam Repair", and details on Sheet 11 of 13 for end of beam repairs.

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	FRAMING PLAN								344 2018-041-BD&BJR DuPAGE 51			26
FRAMING FLAN								SN 022-0155	CONTRACT	NO. 62	2H01	
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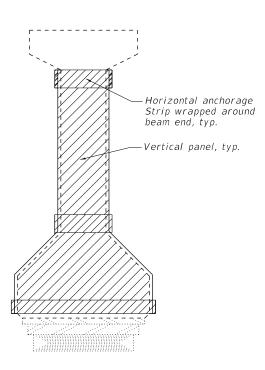


PPC I-BEAM REPAIR

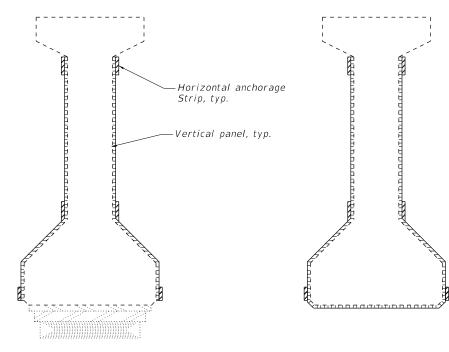
Location	Sq Ft
Beam 1 - N. Abut	2.0
Beam 9 - N. Abut	2.5
Beam 1 - S. Abut	0.0
Beam 9 - S. Abut	1.3

CROSS SECTION

SCALE:



BEAM END VIEW



Notes:

Vertical panels must be between 10" and 12". The space between each vertical panel shall be 1". Vertical panels shall extend beyond the repair zone by a minimum of 3". Vertical panels located above the bearing location shall be placed in two pieces as shown in Section A-A. At locations in front of the bearing, the vertical panels shall be one continuous strip wrapping beneath the bottom flange as shown in Section B-B.

Horizontal anchorage strips shall be 3" wide and extend a minimum of 6" beyond the vertical panels. The horizontal anchorage strips shall be placed on top of the vertical panels. In areas where deterioration occurs in the ends of beams, the anchorage strip shall wrap around the beam end in one continuous strip.

Spalled concrete and exposed reinforcement shall be repaired according to the special provision "PRECAST PRESTRESSED CONCRETE I-BEAM REPAIRS".

Acrylic coating shall be placed over fiber wrap repairs.

See special provisions for "FRP STRENGTHENING FOR PPC I-BEAM REPAIRS."

BILL OF MATERIAL

Item	Unit	Total
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	6
Fiber Wrap	Sq. Ft.	114
Acrylic Coating	Sq. Yd.	24

CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS 184-001297

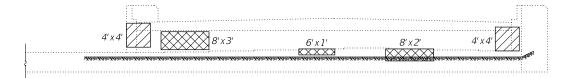
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PLOT DATE = 12/13/2018	DATE	-	11-02-2018	REVISED -	

SECTION A-A

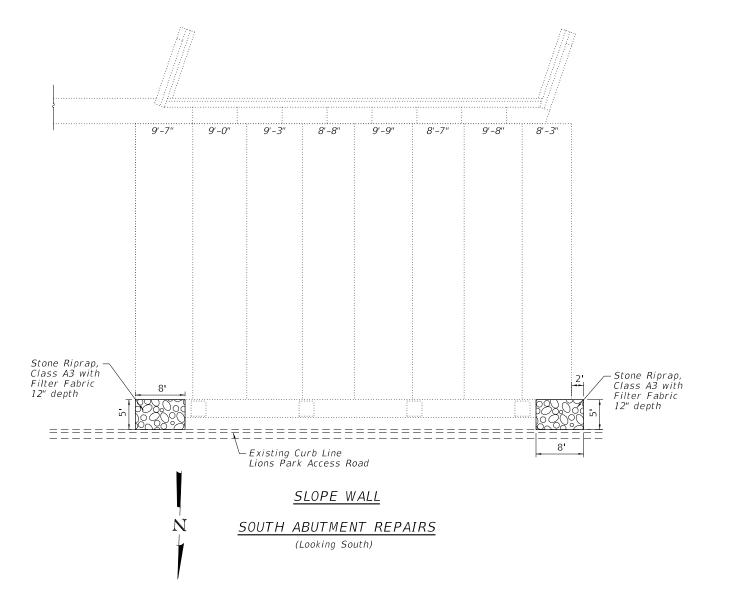
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTION B-B

IL ROUTE 83 OVER BNSF R.R OVERLAY AND BRIDGE REPAIRS	F.A.P RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PPC I-BEAM REPAIR DETAILS	344	2018-041-BD&BJR	DuPAGE	51	27
I I G I-DEAW RELAIR DETAILS		SN 022-0155	CONTRAC	F NO. 62	2H01
SHEET 11 OF 13 SHEETS STA. TO STA.		ILLINOIS FED	. AID PROJECT		

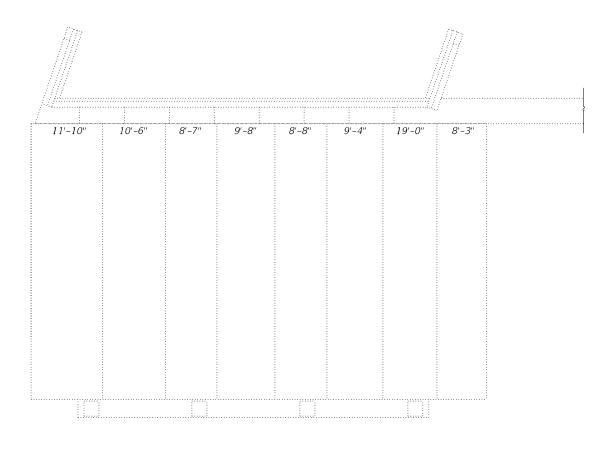


SOUTH ABUTMENT - ELEVATION





NORTH ABUTMENT - ELEVATION



SLOPE WALL NORTH ABUTMENT REPAIRS (Looking North)

Notes

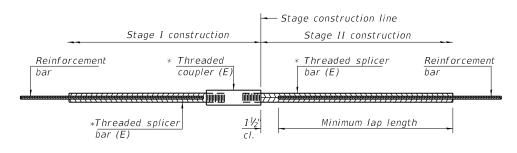
Repair details shown on this sheet were taken from the District's inspection sheetsand field inspections completed by Chastain and Associates. Actual locations, size, and depth shall be verified in the field.

BILL OF MATERIAL

SYMBOL		17	UNIT	QUANT I	TY	
	Structural F (Depth Equa		Sq. Ft.	49		
	Structural F (Depth Equa		Sq. Ft.	62		
	Stone Ripra	p , C	Sq.Yd.	10		
BRIDGE REPAIRS		F.A.P RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.



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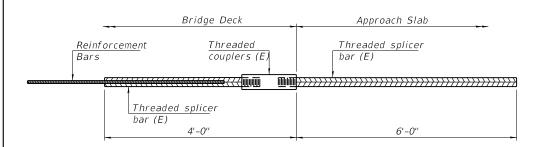


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + $1\frac{1}{2}$ " + thread length

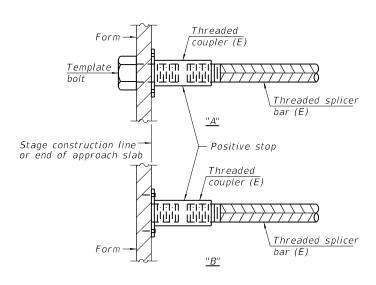
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

<u> </u>			
Location	Bar	No. assemblies	Minimum
	size	required	lap length
S. Abut. Joint	#6	4	3'-7"
S. Abut. Joint	#7	9	4'-8"
N. Abut. Joint	#6	4	3'-7"
N. Abut. Joint	#7	9	4'-8"



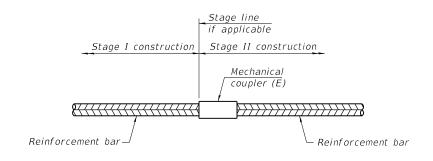
BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 0



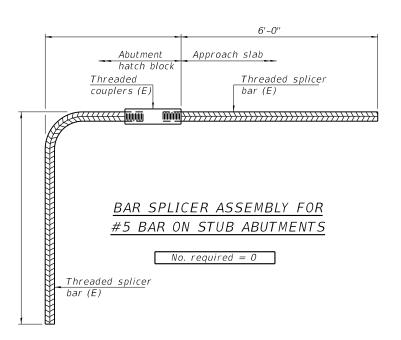
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

BSD-1

2-17-2017

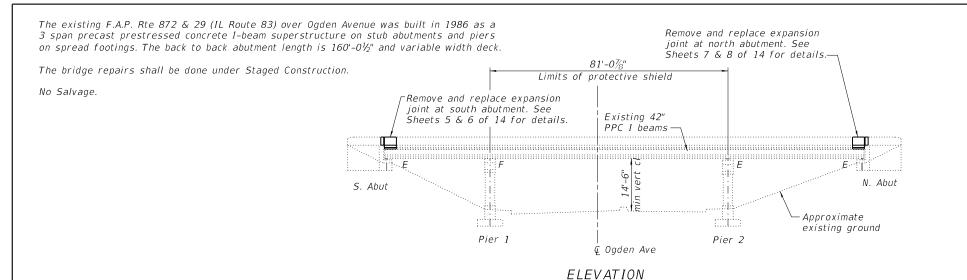
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184-001397

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PLOT DATE = 12/13/2018	DATE -	11-02-2018	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

 						D BRIDGE REPAIRS L SPLICER DETAILS	
SHEET	13	OF	13	SHEETS	STA.	TO STA.	

F.A.P RTE	SEC ⁻	TION		COUNTY	TOTAL SHEETS	SHEET NO.
344	2018-041	-BD&BJF	₹	DuPAGE	51	29
	SN 022-01	55	CONTRACT	NO. 62	2H01	
		ILLINOIS	FED. A	ID PROJECT		



160'-01/3' along outside face of deck -35′ HMA Surface Removal, ¾" © Brg S. Abut © Pier 1 € Ogden Ave 1 11 € Pier 2 Brg N. Abut 35' HMA Taper per District 1 Details BD-32 1 11 (See Transition Details Sheet) 6°50'49" 1 || ← Ramp B 1 || 1 || 1 // 1 11 $\triangleleft SB$ 7'-9½" Stage Construction $\triangleleft SB$ Back S Abut Line -Back N. Abut Sta 394+64.59 Sta 396+28.12 1 || 395 | Loc tan at 1 || G IL Rte 83 □⇒ NB Sta 395+45.57 1 || 1 || 1 || □⇒ NB 1 || ΤÏ ΤÏ \Longrightarrow Ramp C 1 || 1 || 11:1: 35' HMA Surface Removal, ¾" 35' HMA Taper per District 1 Details BD-32 - Sta 395+45.57 © IL Rte 83 = Sta 1850+01.77 © Ogden Ave 11-1 (See Transition Details Sheet) 11 1 39'-21/4" 81'-0%" 39'-11/5" 159'-45/" R. 11E 3RD P.M. End to end deck SCOPE OF WORK: Proposed PLANRehabilitation Remove and replace abutment expansion joints with preformed joint strip seal. Repair bridge deck slab. 3. Bridge deck scarification ¾". 4. Place bridge deck latex concrete overlay, 21/2". Apply protective coat to parapet and new concrete (excludes overlay).

INDEX OF SHEETS

- 1. General Plan and Elevation
- 2. General Structural Data
- 3. Stage Construction Details
- 4. Bridge Deck Repairs
- 5. South Abutment Expansion Joint Details
- 6. South Abutment Expansion Joint Details 7. North Abutment Expansion Joint Details
- 8. North Abutment Expansion Joint Details
- 9. Preformed Joint Strip Seal
- 10. PPC I-Beam Repair
- 11. Bearing Details Abutments
- 12. Abutment Repairs
- 13. Pier Repairs
- 14. Bar Splicer Assembly and Mechanical Splicer Details

<u>DESIGN STRESSES</u>

EXISTING STRUCTURE

f'c = 3,500 psi (Reinforced Concrete) f'c = 6,000 psi (Prestressed Concrete) fy = 60,000 psi (Reinforcement)

DESIGN SPECIFICATIONS

(New Construction) 2002 AASHTO Standard Specifications, 17th Ed.

LOADING HS 20-44

Original Construction



11/2/18

Jeremy Buening, P.E., S.E License Expires 11/30/20 Date

COUNTY

DuPAGE 51 30

CONTRACT NO. 62H01

GENERAL PLAN AND ELEVATION
IL ROUTE 83 OVER OGDEN AVENUE
FAP RTE 872 & 29 SEC 2005-0171

DUPAGE COUNTY

STATION 395+45.57

STRUCTURE NO. 022-0157

CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS 184-001397

PPC I-Beam Repairs.

Repair substructure.

Replace abutments expansion bearings.

USER NAME = _USER_	DESIGNED -	BCG	REVISED -
	DRAWN -	DMW	REVISED -
PLOT SCALE = 31.9999 / in.	CHECKED -	JMB	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

								F.A.P RTE	SECTION
								344	2018-041-BD8
								SN 022-0157	
CALE:	SHEET	1	OF	14	SHEETS	STA.	TO STA.		ILLIN

LOCATION SKETCH

GENERAL NOTES

Plan dimensions and details relative to existing plans are subject to nominal construction variations. The CONTRACTOR shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however the CONTRACTOR will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars designated (E) shall be epoxy coated.

Joint openings shall be adjusted according to Art. 520.04. in the Standard Specs. when the deck is poured at an ambient temperature other than 50°F.

Expansion joints shall be fabricated and installed according to the Manufacturer's recommendations and as approved by the Engineer.

Expansion joints shall be fabricated to conform to the existing cross slopes of the bridge.

The steel components of all expansion bearings not being replaced shall be blasted and painted according to the special provision "Cleaning and Painting Existing Steel Structures".

Existing reinforcement extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.

Existing underpass lighting system at the US 34 bridge shall be maintained and protected. The Contractor will not be required to assume maintenance of this system unless its modification is required for the completion of the specified bridge work or it is damaged during the course of the work. Such damage shall be repaired at no additional cost to the State.

Synthetic fibers shall be added to the bridge deck Latex Concrete Overlay, See special provisions.

All structural steel shall conform to AASHTO classification M-270 Gr. 50, unless otherwise noted.

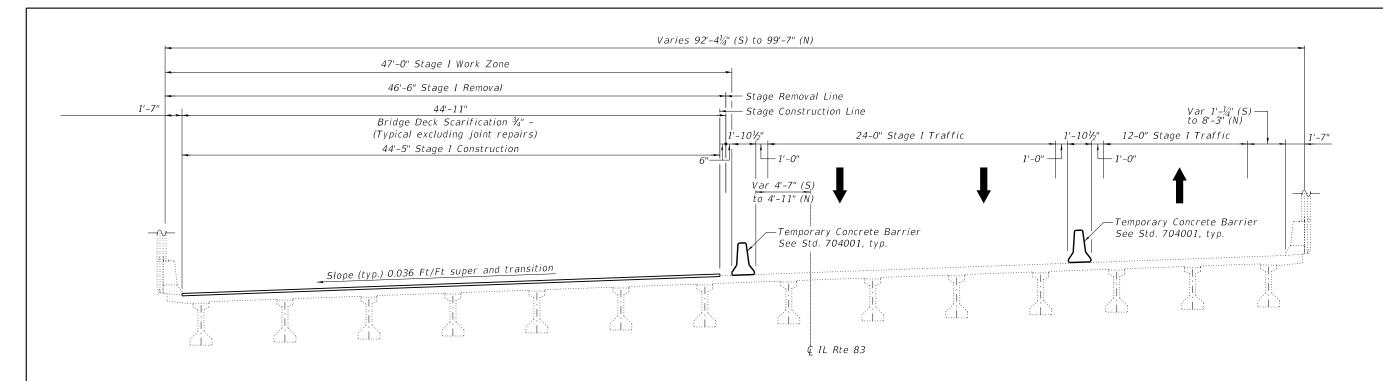
CHASTAIN & ASSOCIATES LLC

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	DRAWN	-	DMW	REVISED -	
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TOTAL BILL OF MATERIAL

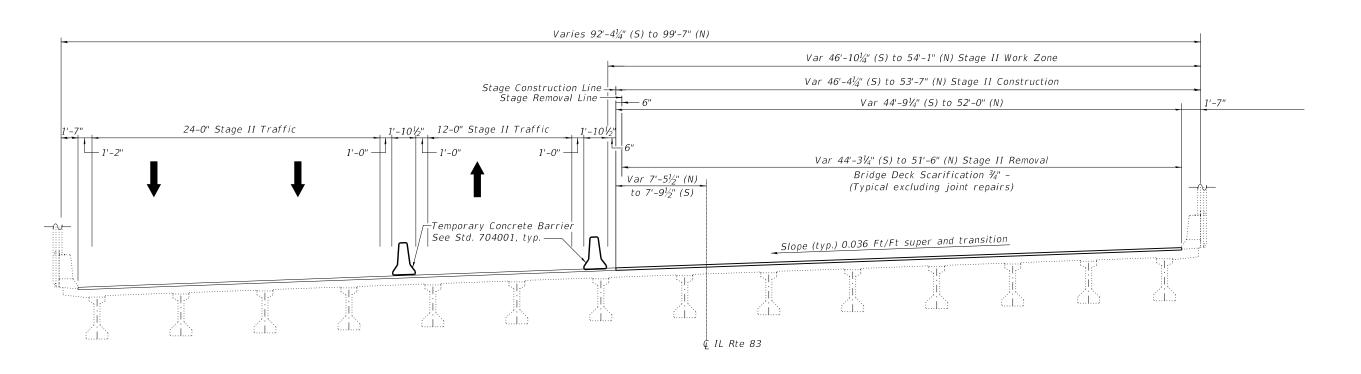
ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Removal	Cu. Yd.	47.2	-	47.2
Protective Shield	Sq. Yd.	861	-	861
Concrete Superstructure	Cu. Yd.	52.6	_	52.6
Bridge Deck Grooving	Sq. Yd.	1618	-	1618
Protective Coat	Sq. Yd.	254	-	254
Reinforcement Bars, Epoxy Coated	Pound	10210	_	10210
Bar Splicers	Each	26	-	26
Preformed Joint Strip Seal	Foot	191	-	191
Elastomeric Bearing Assembly, Type II	Each	28	_	28
Anchor Bolts, 3/4"	Each	112	_	112
Bridge Deck Latex Concrete Overlay, 2½"	Sq. Yd.	1548	-	1548
Bridge Deck Scarification $\frac{3}{4}$ "	Sq. Yd.	1548	-	1548
Structural Repair of Concrete (Depth Equal To or Less Than 5 Inches)	Sq. Ft.	-	490	490
Structural Repair of Concrete (Depth Greater Than 5 Inches)	Sq. Ft.	-	45	45
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	7	1	7
Jack and Remove Existing Bearings	Each	28		28
Acrylic Coating	Sq. Yd.	26	248	274
Cleaning and Painting Bearings	Each	28		28
Fiber Wrap	Sq. Ft.	114	1115	1229
Controlled Low Strength Material	Cu. Yd.	-	5	5
Slope Wall Crack Sealing	Foot	-	461	461

UTE 83 OVER OGDEN AVENUE - OVERLAY AND BRIDGE REPAIRS GENERAL STRUCTURAL DATA							F.A.P RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.			
							344	2018-041-8	BD&BJF		DuPAGE	51	31		
GENERAL STRUCTURAL DATA						SN 022-0157 CONTRACT NO. 621					2H01				
	SHEET	2	OF	14	SHEETS	STA.	TO STA.		I	LLINOIS	FED. AI	D PROJECT			



STAGE I REMOVAL & CONSTRUCTION - LOOKING NORTH

(All dimensions are perpendicular to © IL Rte 83)



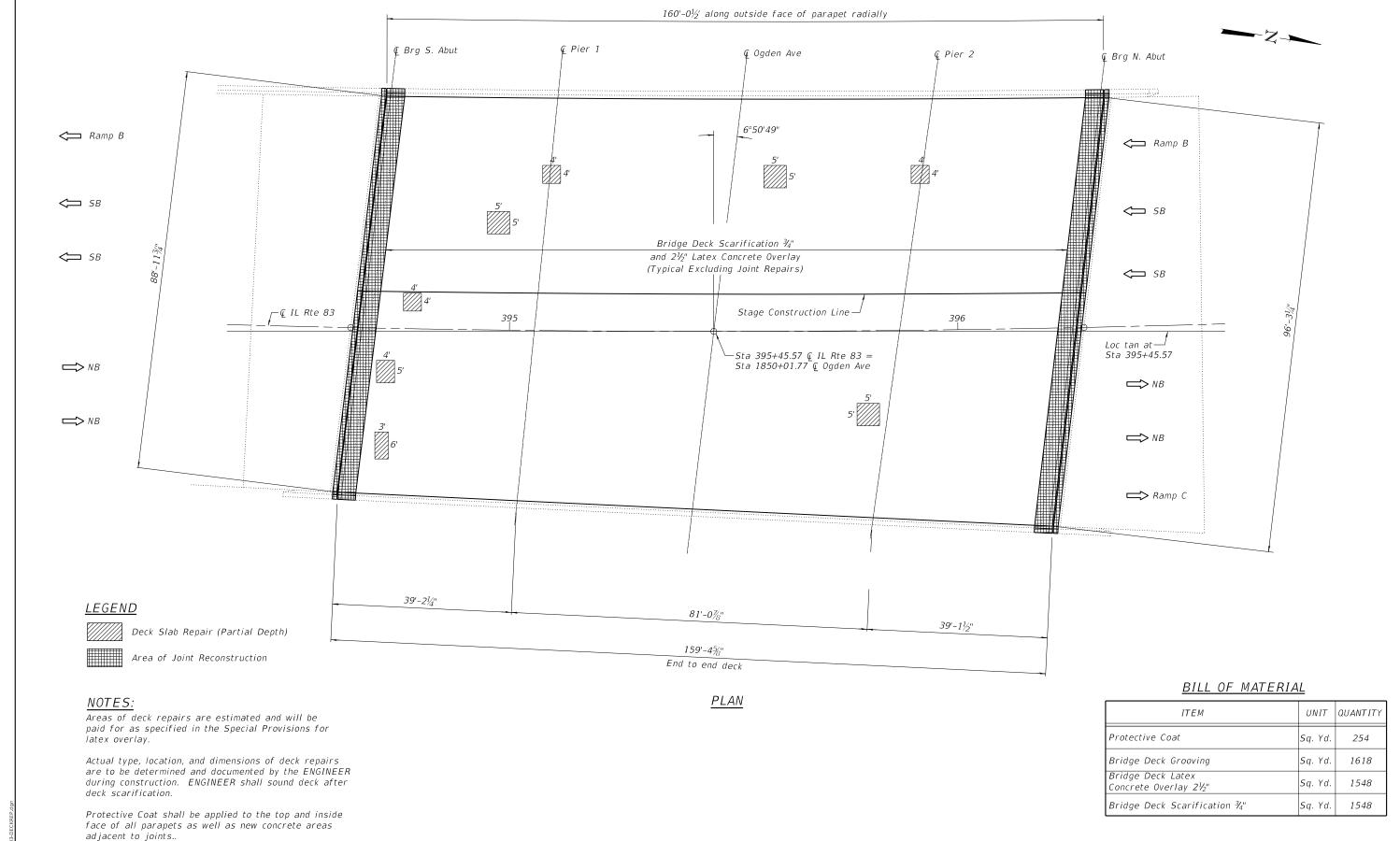
STAGE II REMOVAL & CONSTRUCTION - LOOKING NORTH

(All dimensions are perpendicular to © IL Rte 83)

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CHASTAIN
& ASSOCIATES LLC
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CONSULTING ENGINEERS
184-001307

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LOT DATE = 12/27/2018	DATE - 11-02-2018	REVISED -

IL ROUTE 83 OVER OGDEN AVENUE - OVERLAY AND BRIDGE REPAIRS STAGE CONSTRUCTION DETAILS							F.A.P RTE	A.P. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
							344	2018-041-BD&BJR		DuPAGE	51	32
STAGE CONSTRUCTION DETAILS						SN 022-0157 CONTRACT NO. 62H0					2H01	
ALE:	SHEET	3	OF	14	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT				

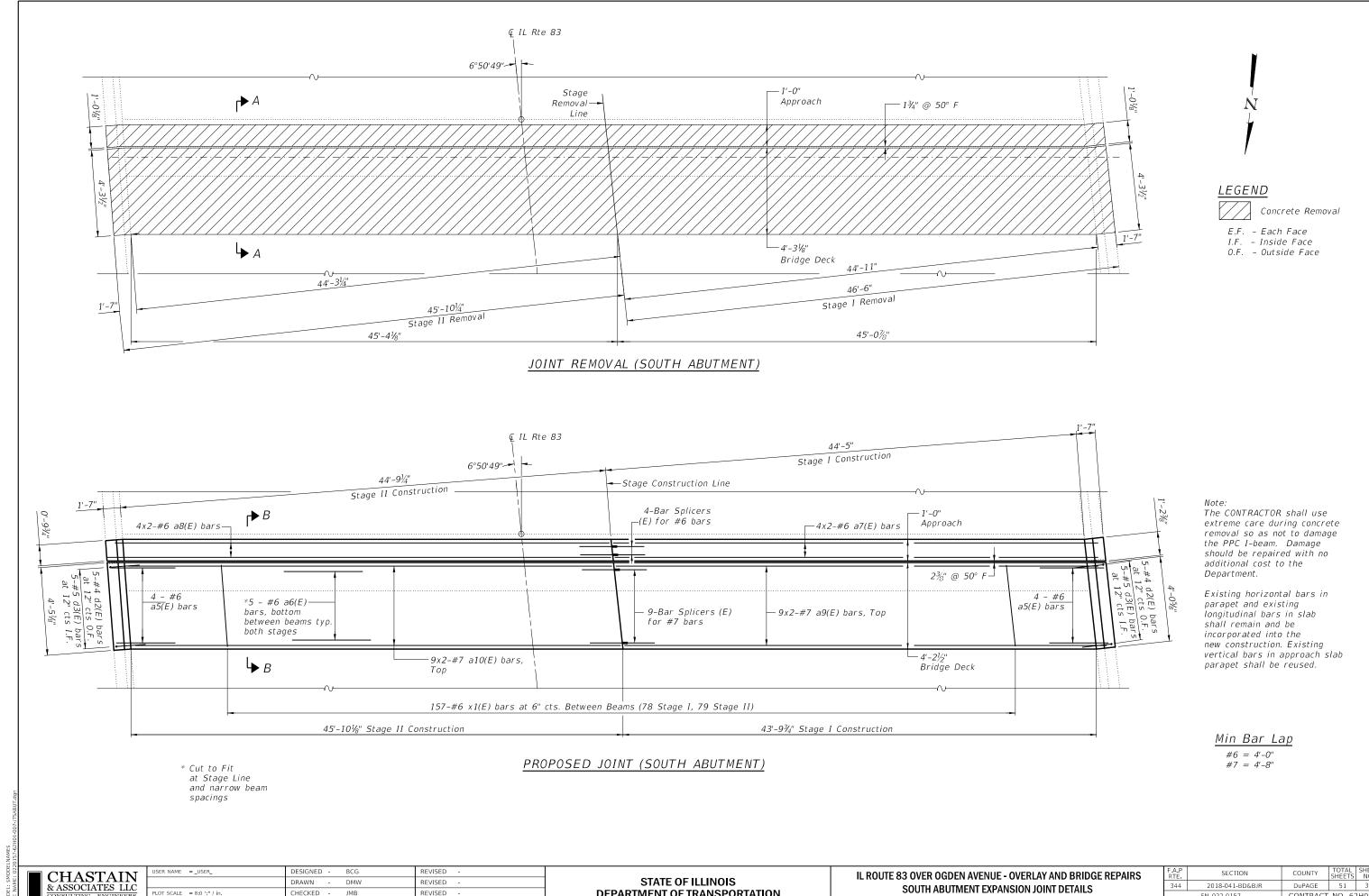


FILE NAME: 0220157-62H01-003-0

CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS 184-001397

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 83 OVER OGDEN AVENUE - OVERLAY AND BRIDGE REPAIRS								F.A.P RTE	SECT	TON	COUNTY	TOTAL SHEETS	SHEET NO.
BRIDGE DECK REPAIRS							344	2018-041	-BD&BJR	DuPAGE	51	33	
DIVIDGE DEGIT REPAIRS							SN 022-0157 CONTRACT NO. 62H0						
ALE:	SHEET	4	OF	14	SHEETS	STA.	TO STA.			ILLINOIS FED. A	ID PROJECT		

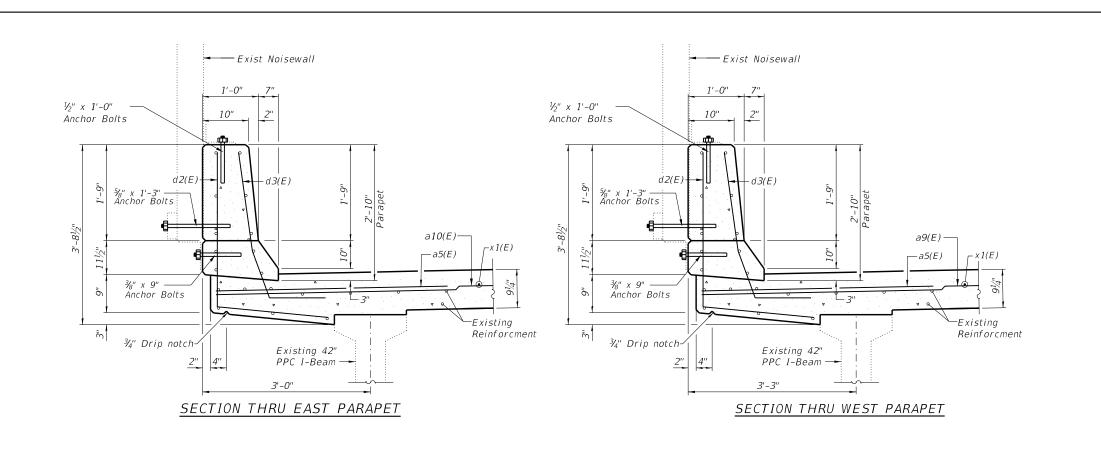


JMB REVISED PLOT DATE = 12/13/2018 DATE 11-02-2018 REVISED

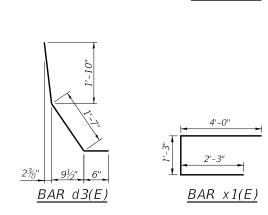
DEPARTMENT OF TRANSPORTATION

SHEET 5 OF 14 SHEETS STA.

DuPAGE 51 34 SN 022-0157 CONTRACT NO. 62H01



Existing Reinforcement



BAR d2(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a5(E)	8	#6	4'-0"	
a6(E)	65	#6	6'-3"	
a7(E)	8	#6	24'-7"	
a8(E)	8	#6	24'-9"	
a9(E)	18	#7	24'-11"	
a10(E)	18	#7	25'-1"	
d2(E)	10	#4	5'-2"	<u> </u>
d3(E)	10	#5	3'-11"	
x1(E)	157	#6	7'-6"	
Concrete		Cu. Yd.	22.6	
Concrete		Cu. Yd.	25.2	
Reinforce Epoxy Co		Pound	4930	

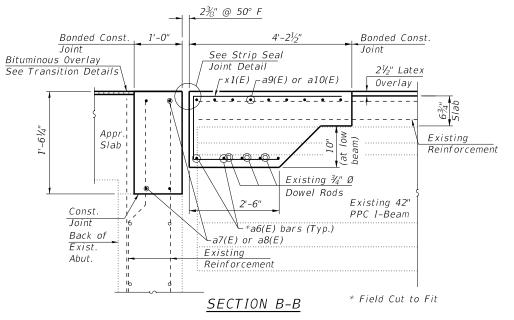
Notes:

The CONTRACTOR shall remove enough of the existing sound barrier wall to allow for removal and installation of the expansion joint. After the new concrete has cured 7 days, the sound barrier wall may be re-installed. This work shall be paid for as Remove and Re-erect Existing Sound Barrier Wall. Anchor bolts of the size indicated shall be used where needed. See Special Provisions.

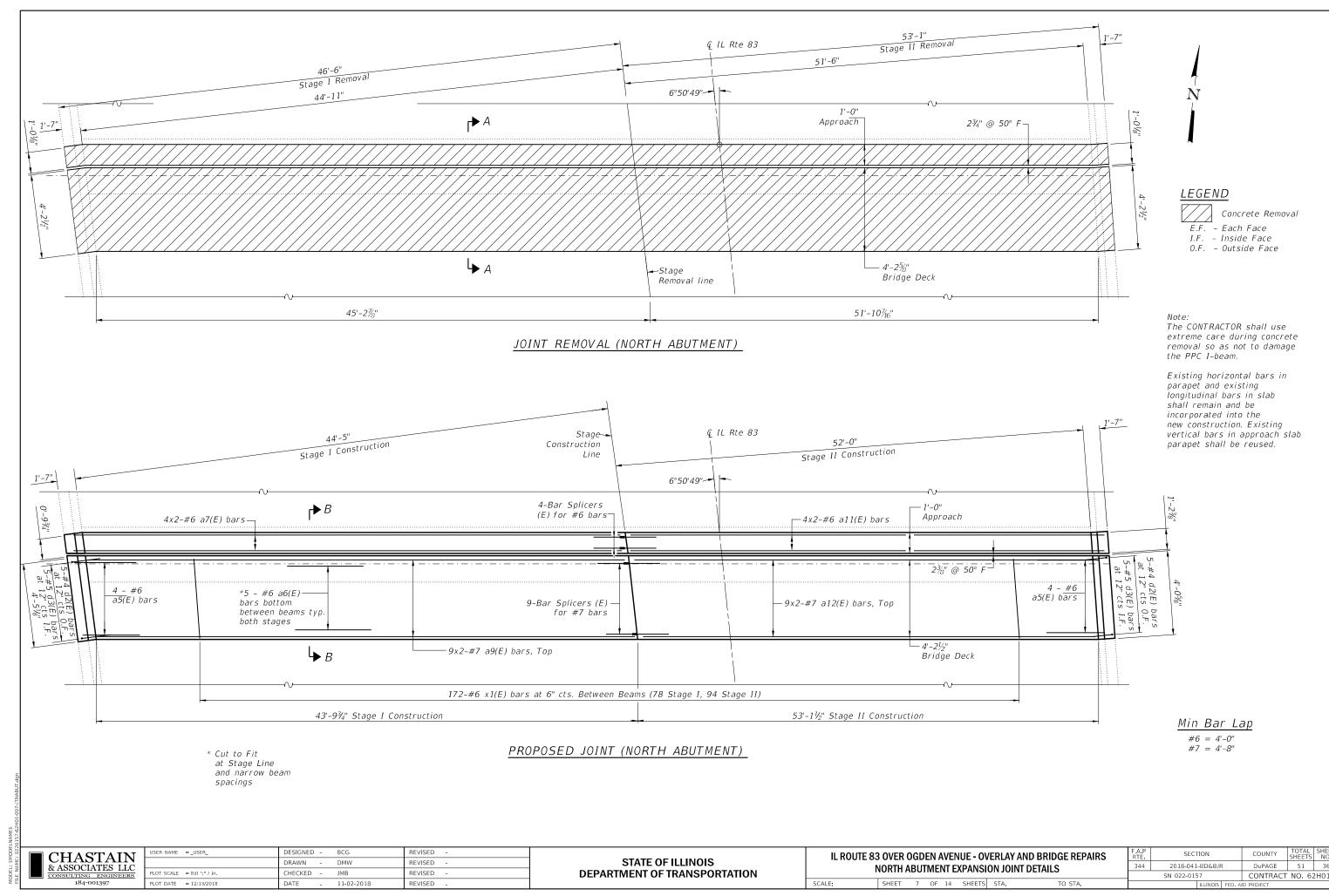
Existing horizontal bars in parapet and existing longitudinal bars in slab shall remain and be incorporated into the new construction. Existing vertical bars in approach slab parapet shall be reused.

Hatched area indicates concrete removal. The CONTRACTOR shall use extreme care during concrete removal so as not to damage the PPC-I beams.

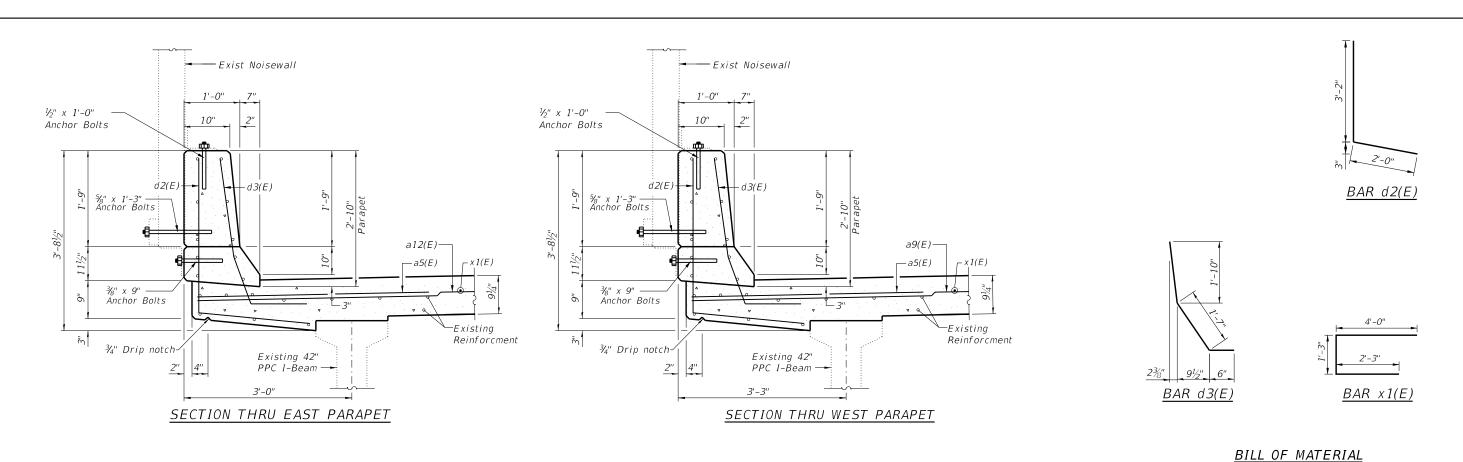
•	Proposed Reinforcement
<u>SECTION A-A</u>	



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DuPAGE 51 36 CONTRACT NO. 62H01



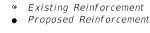
Bar	No.	Size	Length	Shape
a5(E)	8	#6	4'-0"	
a6(E)	65	#6	6'-3"	
a7(E)	8	#6	24'-7"	
a9(E)	18	#7	24'-11"	
a11(E)	8	#6	28'-5"	
a12(E)	18	#7	28'-9"	
(0/5)			=: 0::	
d2(E)	10	#4	5'-2" 3'-11"	Ļ
d3(E)	10	#5	3'-11"	
v.1/F)	172	4.0	71 (11	_
x1(E)	172	#6	7'-6"	<u> </u>
Concrete	Removal	Cu. Yd.	24.6	
Concrete		ructure	Cu. Yd.	27.4
Reinforce			cu. ru.	
Epoxy Co		, ,,	Pound	5280

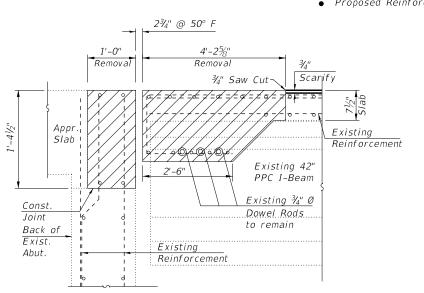
Notes

The CONTRACTOR shall remove enough of the existing sound barrier wall to allow for removal and installation of the expansion joint. After the new concrete has cured 7 days, the sound barrier wall may be re-installed. Anchor bolts of the size indicated shall be used where needed. See Special Provisions.

Existing horizontal bars in parapet and existing longitudinal bars in slab shall remain and be incorporated into the new construction. Existing vertical bars in approach slab parapet shall be reused.

Hatched area indicates concrete removal. The CONTRACTOR shall use extreme care during concrete removal so as not to damage the PPC-I beams.





SECTION A	<u>-A</u>				
USER NAME = _USER_	DESIGNED -		BCG	REVISED	-
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PLOT DATE = 12/27/2018	DATE -	-	11-02-2018	REVISED	-

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

2¾" @ 50° F

See Strip Seal

Joint Detail

4'-21/5"

 $_{\Gamma}$ x1(E) $_{\Gamma}$ a9(E) or a12(E)

*a6(E) bars (Typ.)

-a7(E) or a11(E)

SECTION B-B

Existing

Reinforcement

Existing ¾" Ø
Dowel Rods

Bonded Const.

2½" Latex

Existing

Reinforcement

Overlay

Existing 42"

PPC I-Beam

* Field Cut to Fit

SCALE:

Joint

Bonded Const. Joint

Appr.

Slab

Const.

Joint

Back of

Exist.

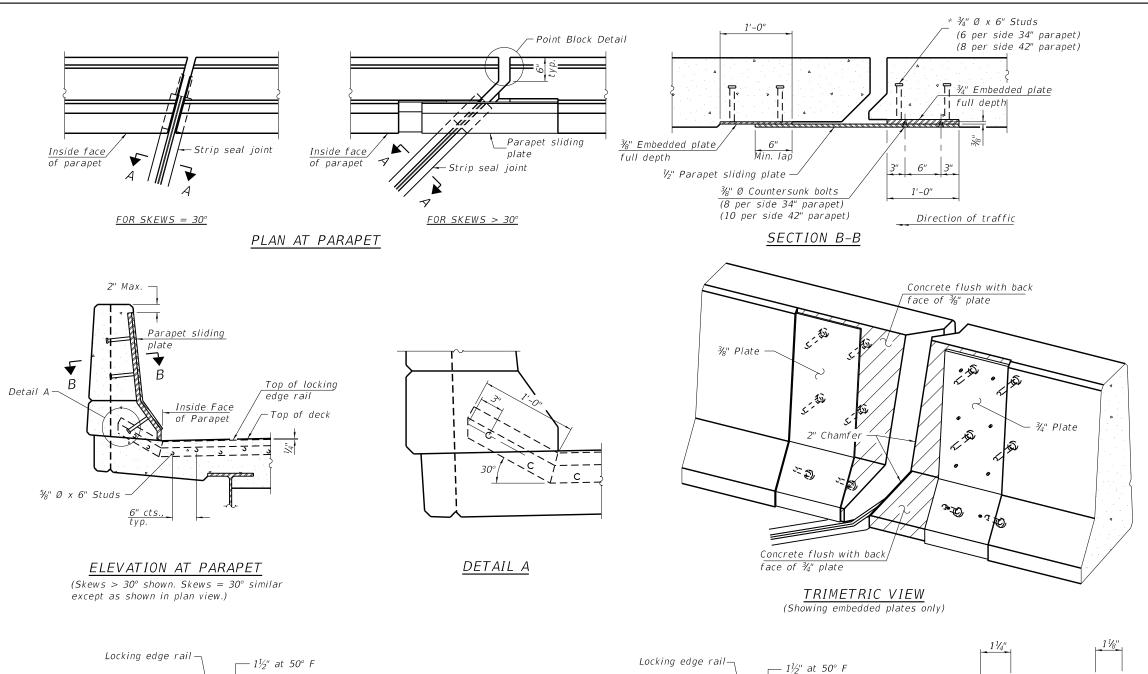
Abut.

Bituminous Overlay

See Transition Details

IL ROUTE 83 OVER OGDEN AVENUE - OVERLAY AND BRIDGE REPAIRS									SECT	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.	
NORTH ABUTMENT EXPANSION JOINT DETAILS								344 2018-041-BD&BJR		DuPAGE	51	37			
·	NONTH ADDITION LAT ANSION JOINT DETAILS								SN 022-0157 CONTRACT NO.			NO. 62	2H01		
ALE:	SHEET	8	OF	14	SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	ID PROJECT			

CHASTAIN & ASSOCIATES LLC



Notes:

The strip seal shall be made continuous and shall have a minimum thickness of \mathcal{V}_4 ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4½" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

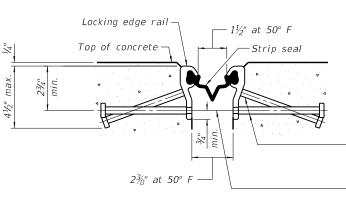
All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " 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.

The top surface of sidewalk sliding plates shall have a raised pattern according to ASTM A786.

Cost of parapet sliding plates, sidewalk sliding plates, embedded plates, anchorage studs, and expansion anchors included with Preformed Joint Strip Seal.

34" F-shape barrier shown, 42" F-shape similar as noted. The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



8-11-17

SHOWING ROLLED RAIL JOINT

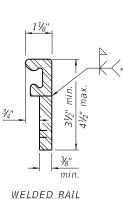
* ½" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

* ½" Ø threaded rods in ½" Ø holes at ±4'-0" cts.—
for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.

7/16"

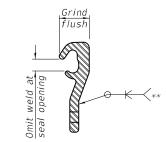
<u>ROLLED</u>

(EXTRUDED) RAIL



LOCKING EDGE RAILS

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



LOCKING EDGE RAIL SPLICE

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

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	191

SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.

EJ-SS

CHASTAIN
& ASSOCIATES LLC

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PLOT DATE = 12/13/2018	DATE	-	11-02-2018	REVISED	-

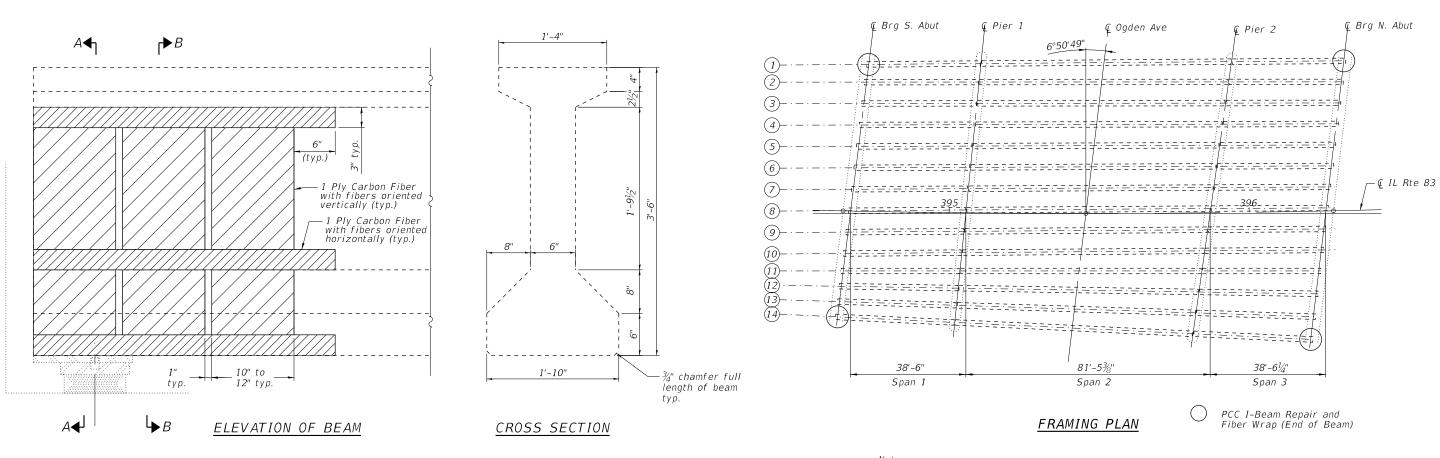
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

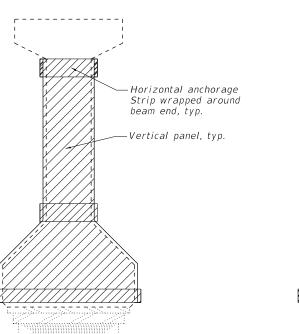
SHOWING WELDED RAIL JOINT

Top of concrete

IL ROUTE 83					NUE - OV D JOINT S		AND BRIDGE REPAIRS EAL
SCALE:	SHEET	9	OF	14	SHEETS	STA.	TO STA.

F.A.P RTE	SECT	ПОИ		COUNTY	TOTAL SHEETS	SHEI
344	2018-041	-BD&BJF	1	DuPAGE	51	38
	SN 022-015	57	CONTRACT	NO. 62	2H01	
		ILLINOIS	EED Δ	ID PROJECT		





BEAM END VIEW

SECTION A-A

Horizontal anchorage -Vertical panel, typ.

Strip, typ.

SECTION B-B

Notes:

Vertical panels must be between 10" and 12". The space between each vertical panel shall be 1". Vertical panels shall extend beyond the repair zone by a minimum of 3". Vertical panels located above the bearing location shall be placed in two pieces as shown in Section A-A. At locations in front of the bearing, the vertical panels shall be one continuous strip wrapping beneath the bottom flange as shown in Section B-B.

Horizontal anchorage strips shall be 3" wide and extend a minimum of 6" beyond the vertical panels. The horizontal anchorage strips shall be placed on top of the vertical panels. In areas where deterioration occurs in the ends of beams, the anchorage strip shall wrap around the beam end in one continuous strip.

Spalled concrete and exposed reinforcement shall be repaired according to the special provision "PRECAST PRESTRESSED CONCRETE I-BEAM REPAIRS".

Acrylic coating shall be placed over fiber wrap repairs.

See special provisions for "FRP STRENGTHENING FOR PPC I-BEAM REPAIRS."

PPC I-BEAM REPAIR

Location	Sq Ft
Beam 1 - N. Abut	4.0
Beam 14 - N. Abut	1.0
Beam 1 - S. Abut	1.0
Beam 14 - S. Abut	1.0

SCALE:

BILL OF MATERIAL

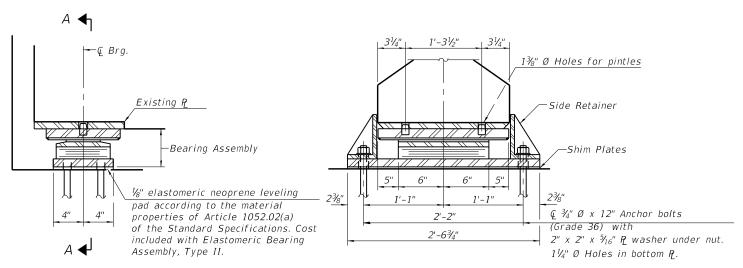
Item	Unit	Total
Precast Prestressed Concrete I-Beam Repair	Sq. Ft.	7
Fiber Wrap	Sq. Ft.	115
Acrylic Coating	Sq. Yd.	26

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USER NAME = _USER_	DESIGNED -	BCG	REVISED -
	DRAWN -	DMW	REVISED -
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PLOT DATE = 12/13/2018	DATE -	11-02-2018	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL ROUTE 83	IL ROUTE 83 OVER OGDEN AVENUE - OVERLAY AND BRIDGE REPAIRS							F.A.P SECTION COUNTY			COUNTY	TOTAL SHEETS	SHEET NO.
	PPC I-BEAM REPAIR DETAILS						344	344 2018-041-BD&BJR			51	39	
	FFG I-DEAW REPAIR DETAILS							SN 022-0157 CONTRACT NO. 621				2H01	
ALE:	SHEET	10	OF	14	SHEETS	STA.	TO STA.			ILLINOIS FED. A	ID PROJECT		



SECTION AT ABUT.

SECTION A-A

PINTLE

EXISTING BEARING REMOVAL DETAIL

⊊ Brg.

Burn existing side retainer bolts flush with existing concrete surface. Grind existing bolt smooth and seal with epoxy. Cost included with Jack and Remove Existing Bearings

Notes:

Remove Existing

Bearing

Anchor bolts shall be ASTM F1554 all-thread (or an Engineerapproved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

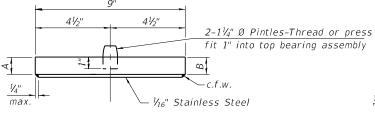
Side retainers and other steel members required for the bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type II.

The $\frac{1}{8}$ " PTFE sheet shall be bonded directly to the top steel plate with a two-component, medium viscosity epoxy resin, conforming to the requirements of the Federal Specification MMM-A-134, Type I. The bond agent shall be applied on the full area of the contact surfaces.

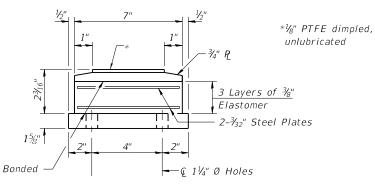
Bonding of $\frac{1}{8}$ " PTFE sheet during vulcanizing process will be permitted provided the process and method of adjusting assembly height is approved by the Engineer.

Top and bottom bearing assembly steel shall have fy = 50 ksi.

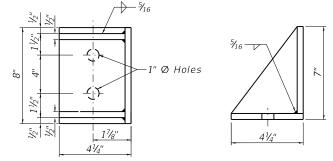
TYPE II ELASTOMERIC EXP. BRG.



TOP BEARING ASSEMBLY

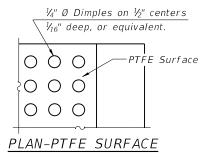


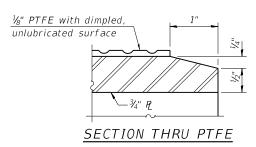
BOTTOM BEARING ASSEMBLY



SIDE RETAINER

Equivalent rolled angle with stiffness will be allowed in lieu of welded plates.





- & Top Brg. ⊊ Bott. Brg. -€ Bott. Brg.

BELOW 50°F.

<u>ABOVE 50°</u>F. $D=\frac{1}{8}$ " per each 100' of expansion for every 15° temp. change from the normal temp. of 50°F.

EXPANSION BEARING ORIENTATION

The above diagrams are for informational purposes only to show the amount of expected offset "D" for the current temperature in the field.

JACK AND REMOVE EXISTING BEARING PROCEDURE

- 1. The Contractor shall submit for approval by the Engineer, plans for jacking existing beams and installing new bearings prior to commencing any related work. Minimum jack capacity is 75 tons.
- 2. Prior to ordering any material, the Contractor shall verify fill plate thickness required at each bearing.
- 3. Jacking and removing existing bearings shall be done after the existing joint is removed and prior to placing the new joint concrete.
- 4. Jacking lifts shall be limited in accordance with the special provision "Jack and Remove Existing Bearings."
- 5. The new bearings, plates, and side retainers shall be in place and the jack shall be lowered before the new concrete deck at the joints is poured.

BEARING DIMENSIONS

	Тор	Plate	Shim		
Bearing	Dime	nsions	Plates		
	A B		Height		
S. Abut	11/2"	11/2"	111/16"		
N. Abut	11/2"	13/4"	1% ₁₆ "		

BEAM REACTIONS

		S. Abut	N. Abut
$R_{\text{\tiny DL}}$	(k)	27.6	27.6
R	(k)	33.4	33.4
Impact	(k)	10.0	10.0
RTotal	(k)	71.0	71.0

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type II	Each	28
Anchor Bolts, ¾"	Each	112
Jack and Remove Existing Bearings	Each	28

CHASTAIN & ASSOCIATES LLC

	USER NAME = _USER_	DESIGNED -	BCG	REVISED -
		DRAWN -	DMW	REVISED -
	PLOT SCALE = 0.1667 / in.	CHECKED -	JMB	REVISED -
	PLOT DATE = 12/13/2018	DATE -	11-02-2018	REVISED -
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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

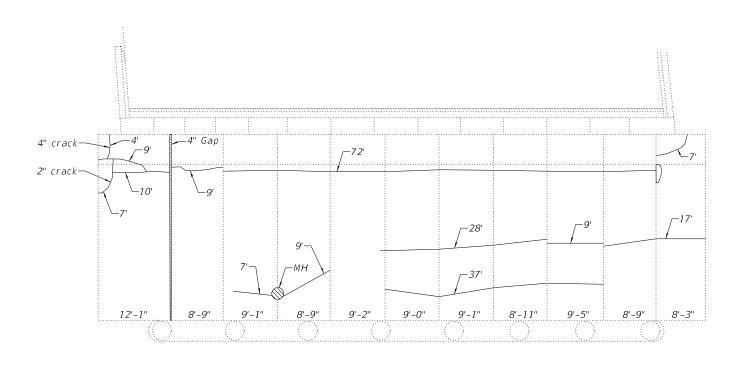
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344	2018-041	-BD&BJF	₹	DuPAGE	51	40
	SN 022-01	57	CONTRACT	NO. 62	2H01	
		ILLINOIS	FED. A	ID PROJECT		

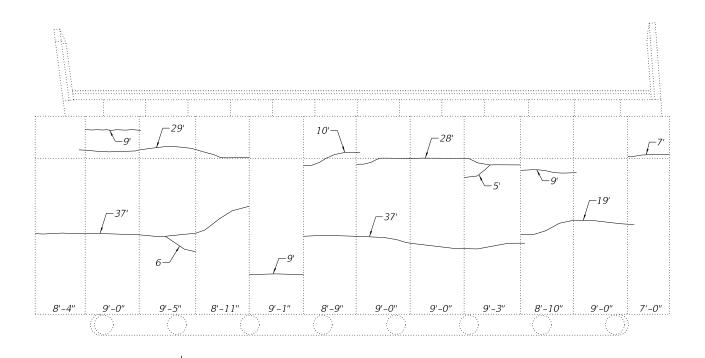




SOUTH ABUTMENT - ELEVATION

NORTH ABUTMENT - ELEVATION





SLOPE WALL SOUTH ABUTMENT REPAIRS (Looking South)

SLOPE WALL NORTH ABUTMENT REPAIRS

(Looking North)

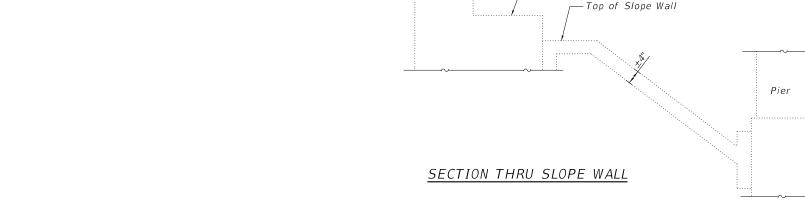
Repair details shown on this sheet were taken from the District's inspection sheetsand field inspections completed by Chastain and Associates. Actual locations, size, and depth shall be verified in the field.

Pump Controlled Low-Strength Material in locations where slope wall undermining has occurred. Quantity shown is the estimated quantity, exact quantity to be determined in field.

BILL OF MATERIAL

	SYMBOL		ΙT	UNIT	QUANTIT	⁻ Y	
				r of Concrete or Less Than 5")	Sq. Ft.	45	
		Structural F (Depth Equa		Sq. Ft.	62		
		Controlled L	.ow-S	Cu. Yd.	5		
		Slope Wall	Crack	Sealing	Feet	461	
١N	ND BRIDGE REPAIRS		F.A.P RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	AIRS		344	2018-041-BD&BJR	DuPAGE	51	41
	_i /\ii\O						

CONTRACT NO. 62H01

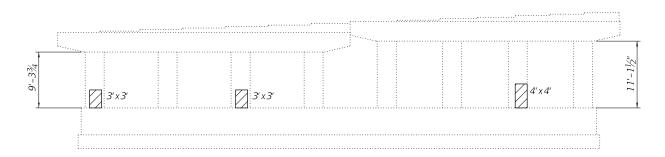


CHASTAIN & ASSOCIATES LLC CONSULTING ENGINEERS 184-001397

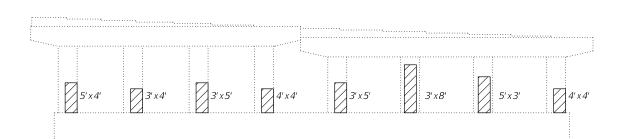
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PLOT DATE = 12/13/2018	DATE	-	11-02-2018	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

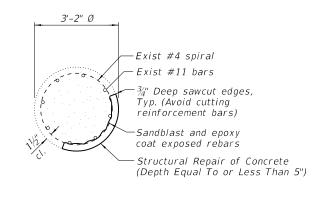
Top of Abutment Seat



ELEVATION - PIER 1 (Looking North)



ELEVATION - PIER 1 (Looking South)



TYPICAL SECTION THRU EXISTING PIER COLUMN

3'-2" Ø

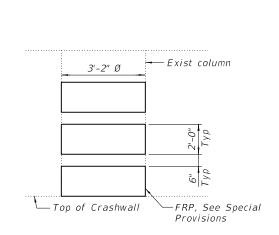
-Exist #4 spiral

-Exist #11 bars

Spalled or delaminated

areas of concrete

TYPICAL SECTION THRU PIER COLUMN REPAIR



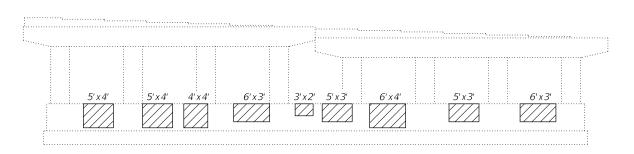
SCALE:

FIBER WRAP DETAIL

SB Columns to receive 3 FRP bands NB Columns to receive 4 FRP bands

2'x8' -4' x 5'

ELEVATION - PIER 2 (Looking North)



ELEVATION - PIER 2

(Looking South)

BILL OF MATERIAL

SYMBOL	ITEM	UNIT	QUANTITY
	Structural Repair of Concrete (Depth Equal To or Less Than 5")	Sq. Ft.	490
	Fiber Wrap	Sq. Ft.	1115
	Acrylic Coating	Sq. Yd.	248

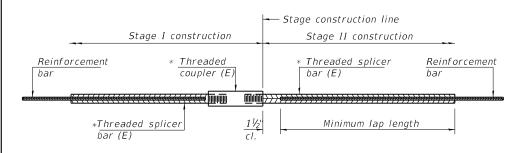
Repair details shown on this sheet were taken from the District's inspection sheets. Actual locations, size, and depth shall be verified in the field.

Fiber wrap shall be according to the Special Provision "FRP Strengthening".

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CHASTAIN	I
& ASSOCIATES LLC	I
CONSULTING ENGINEERS	ı
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USER NAME = _USER_	DESIGNED -	-	BCG	REVISED -
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IL ROUTE 83 OVER OGDEN AVENUE - OVERLAY AND BRIDGE REPAIRS PIER REPAIRS							F.A.P RTE	RTE SECTION COUN		COUNTY	TOTAL SHEETS	SHEET NO.		
							344	4 2018-041-BD&BJR Du		DuPAGE	51	42		
	I ILII ILLEAINO							SN 022-0157			CONTRACT NO. 62H01			
ALE:	SHEET	13	OF	14	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		

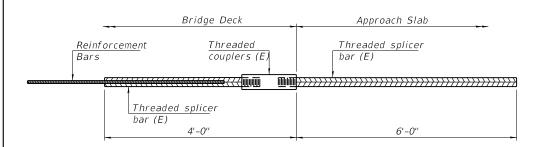


STANDARD BAR SPLICER ASSEMBLY

Threaded splicer bar length = min. lap length + $1\frac{1}{2}$ " + thread length

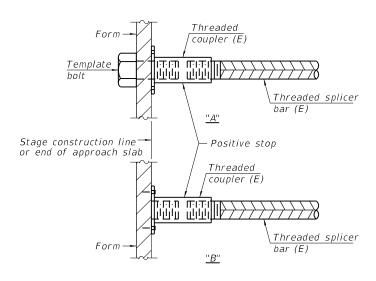
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar	No. assemblies	Minimum
	size	required	lap length
S. Abut. Joint	#6	4	3'-7"
S. Abut. Joint	#7	9	4'-8"
N. Abut. Joint	#6	4	3'-7"
N. Abut. Joint	#7	9	4'-8"



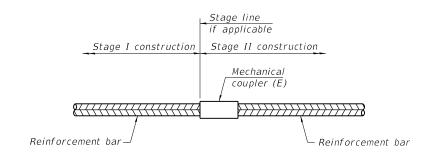
BAR SPLICER ASSEMBLY FOR #5 BAR ON INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

No. required = 0



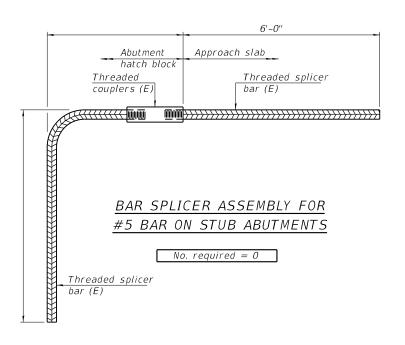
INSTALLATION AND SETTING METHODS

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



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.

2-17-2017

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& ASSOCIATES LLC
CONSULTING ENGINEERS
184-001397

USER NAME = _USER_	DESIGNED - BCG	REVISED -
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PLOT DATE = 12/13/2018	DATE - 11-02-2018	REVISED -
PLOT DATE = 12/13/2018	DATE - 11-02-2018	REVISED -

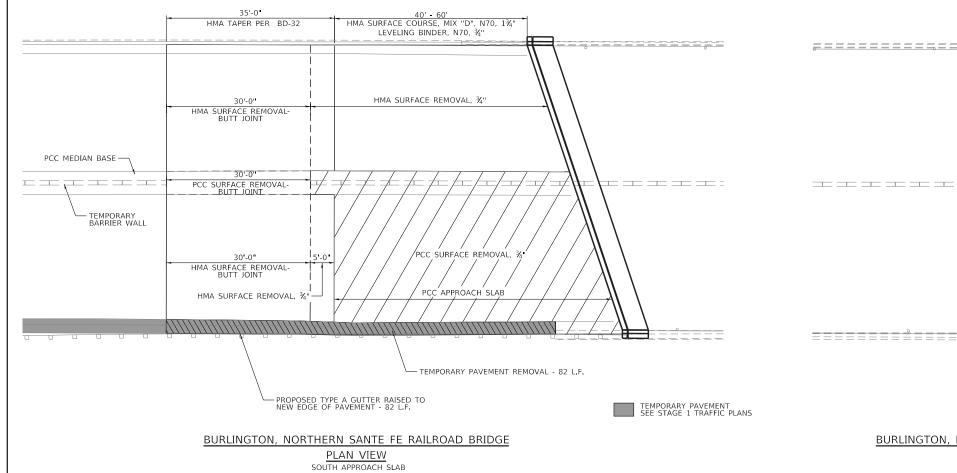
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

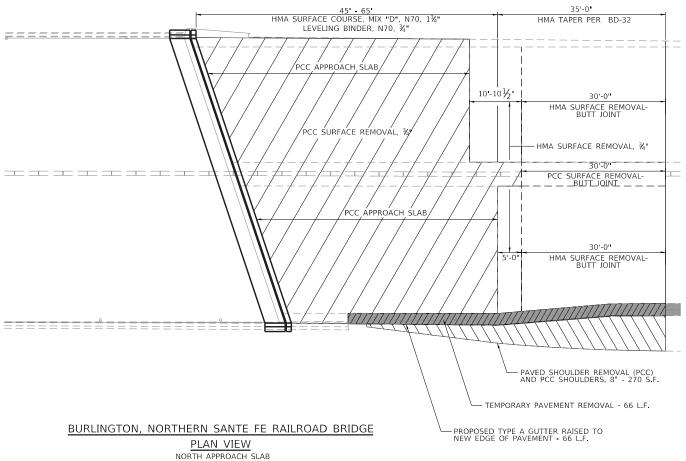
IL ROUTE 83	IL ROUTE 83 OVER OGDEN AVENUE - OVERLAY AND BRIDGE REPAIRS											
BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS												
DAILOIL	DAN SPLICEN ASSEMBLI AND MICCHANICAL SPLICEN DETAILS											
SCALE:	SHEET	14	OF	14	SHEETS	STA.	TO STA.		_			

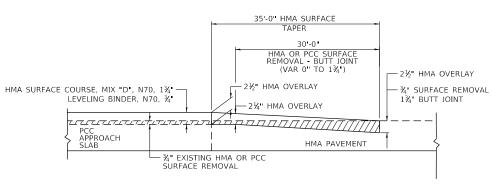
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	SN 022-015	57	CONTRACT	NO. 62	2H01	
		ILLINOIS	FED. A	ID PROJECT		

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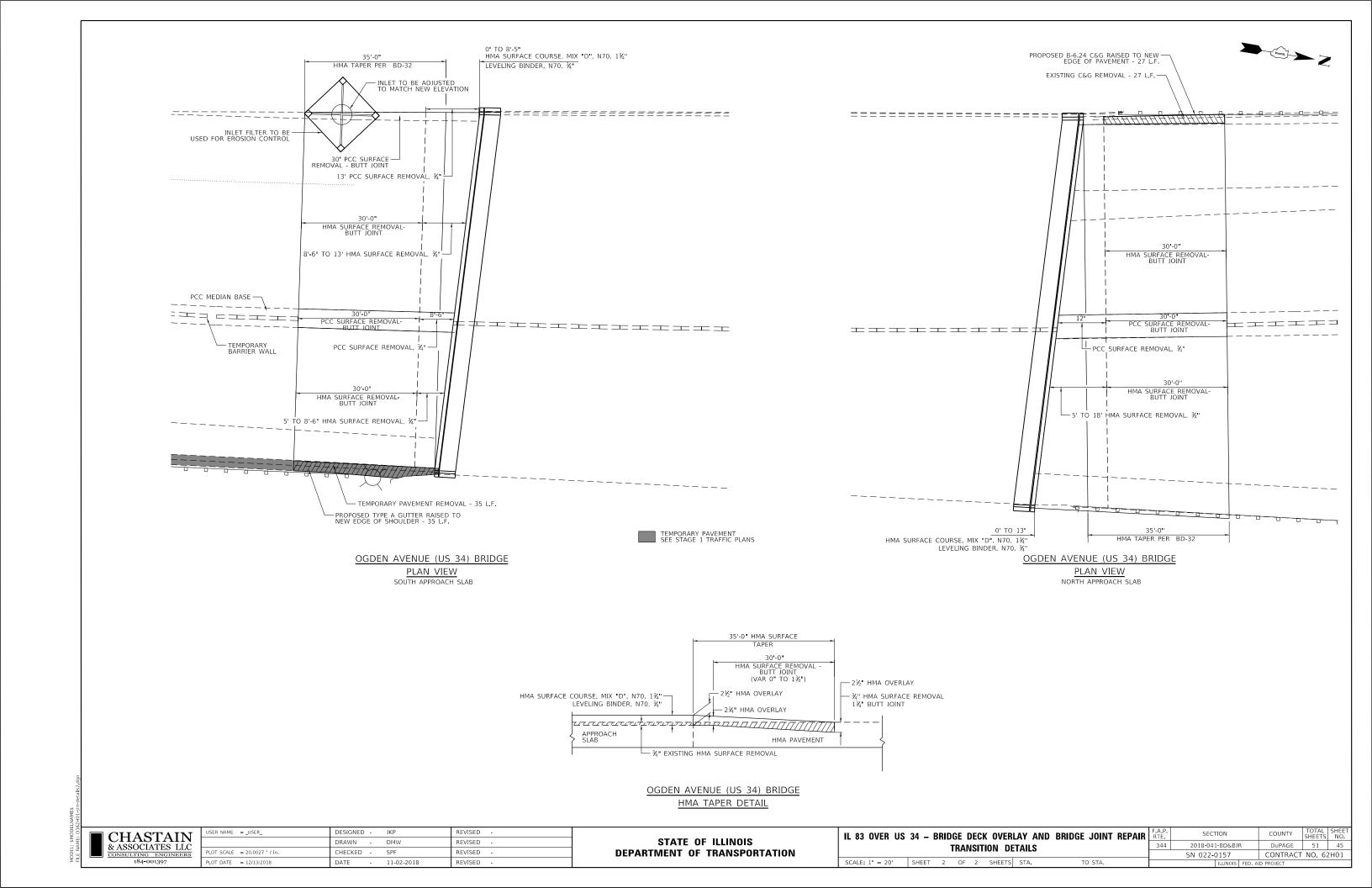
BURLINGTON, NORTHERN SANTE FE RAILROAD BRIDGE HMA TAPER DETAIL

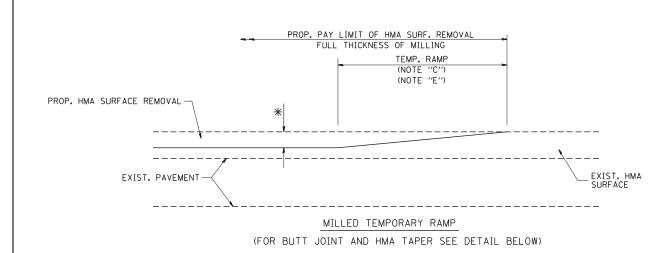
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CONSULTING ENGINEERS	L
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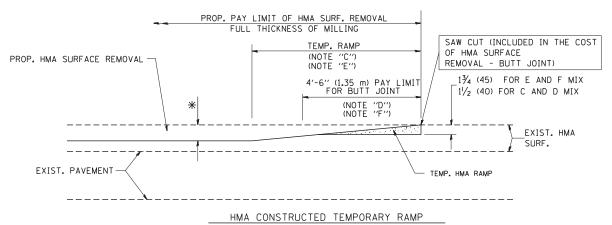
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

IL 83 OVER BNSF – BRIDGE DECK OVERLAY AND BRIDGE JOINT REPAIR							F.A.P. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
TRANSITION DETAILS							344 2018-041-BD&BJR		DuPAGE	51	44		
INANSITION DETAILS										SN 022-0155	CONTRACT	NO. 62	2H01
SCALE: $1' = 20''$	SHEET	1	OF	2	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT				





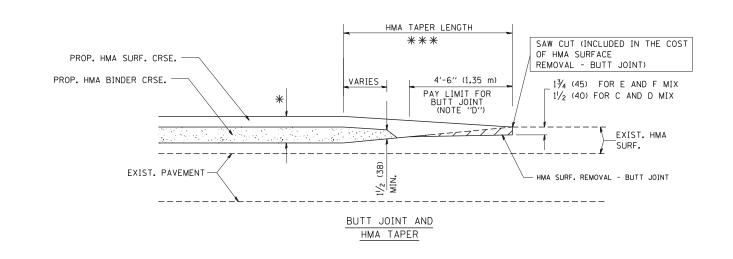
OPTION 1



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



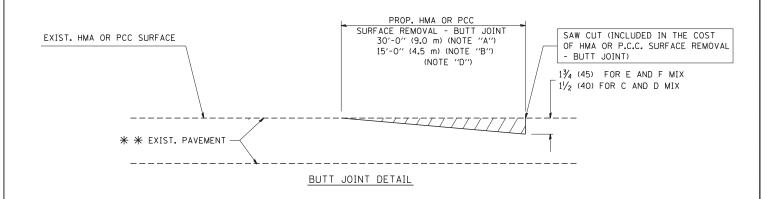
TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

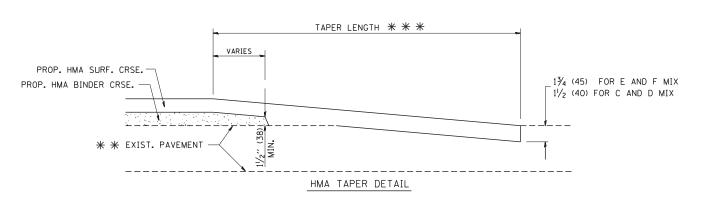
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS

OTHERWISE SHOWN.





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

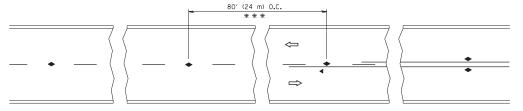
NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL BUTT JOINT
- G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- ** * 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

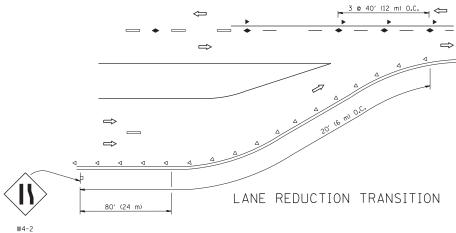
THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOTT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

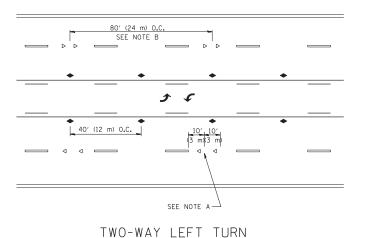
SCALE: NONE



*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

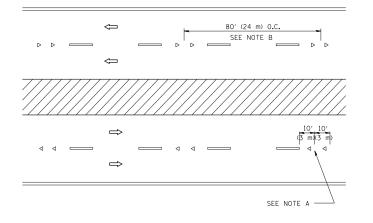
TWO-LANE/TWO-WAY





 \Rightarrow \Rightarrow SEE NOTE A -

MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

- 1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

SYMBOLS

---- YELLOW STRIPE

---- WHITE STRIPE

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (₩/O)
- TWO-WAY AMBER MARKER

DESIGN NOTES

- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- 2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE

MINIMUM OF 3 W EQUALLY SPACED 3 @ 80' (24 m) O.C. — ___ 3 @ 80′ (24 m) O.C. 3 @ 40' (12 m) 3 @ 40' (12 m) 40' (12 m) \triangleleft \Rightarrow \Rightarrow 40′ (12 m) 0.C. ◆ 40′ (12 m) 0.C. * SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE * * WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

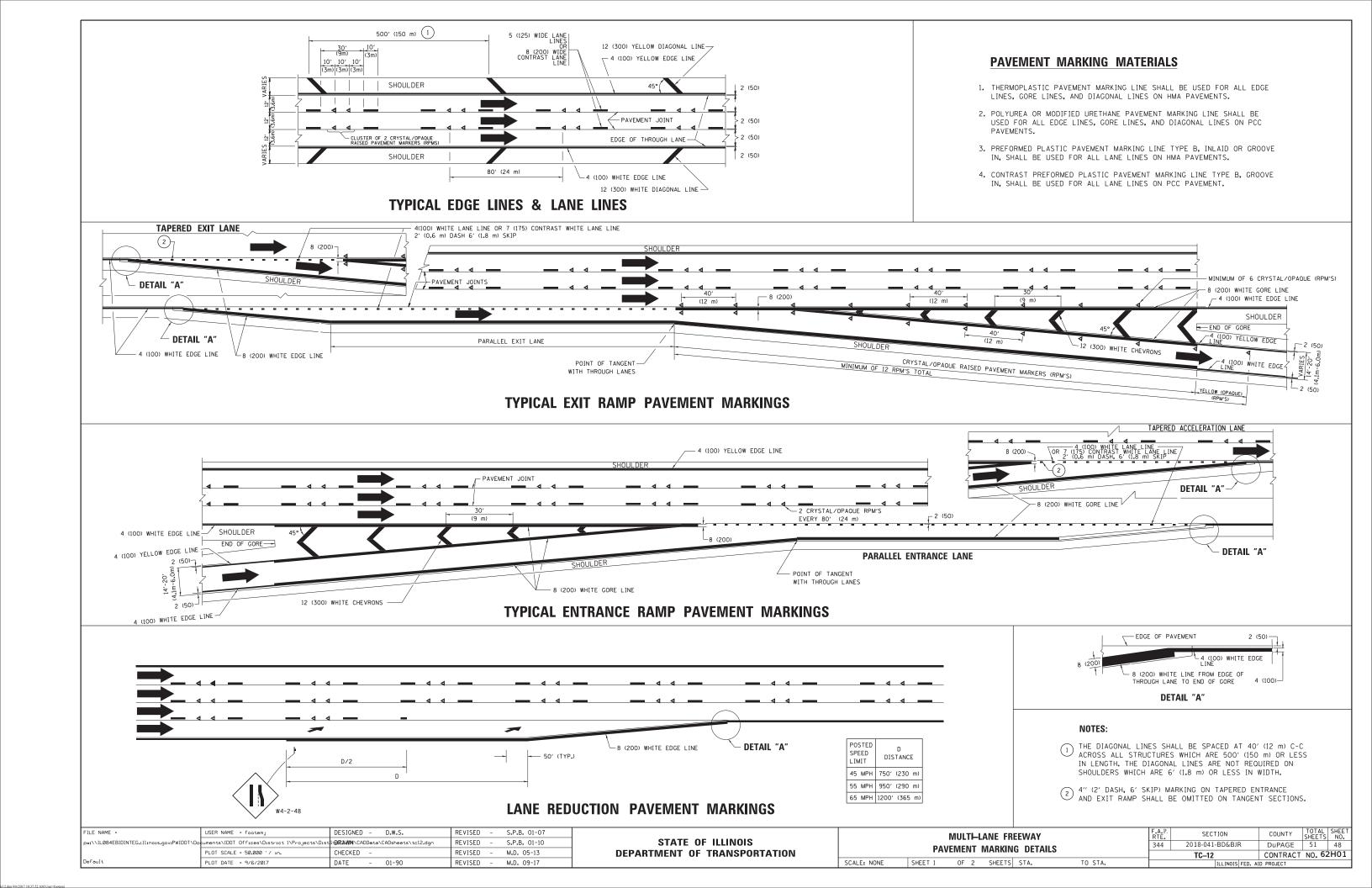
LEFT TURN

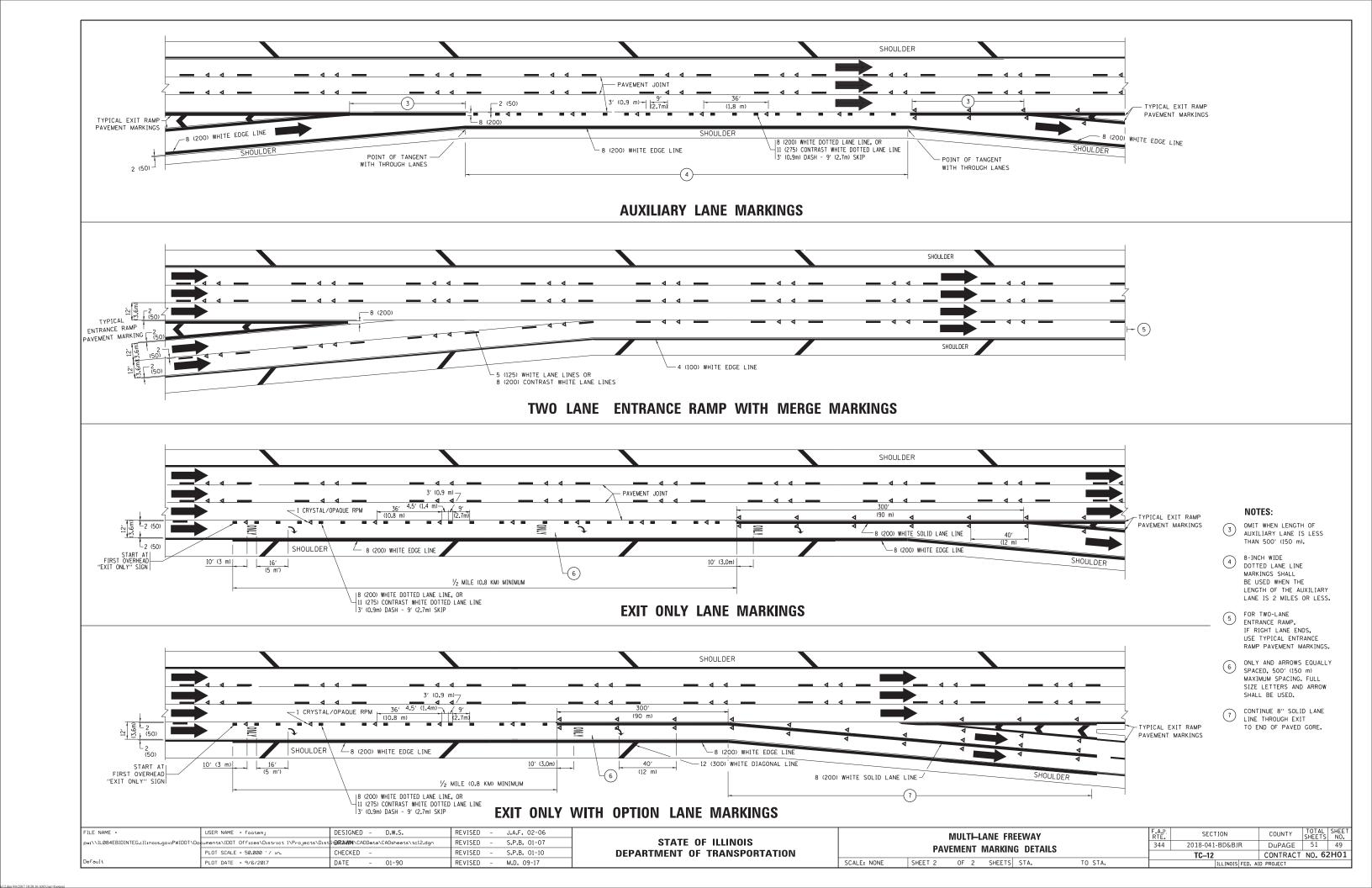
All dimensions are in inches (millimeters) unless otherwise shown.

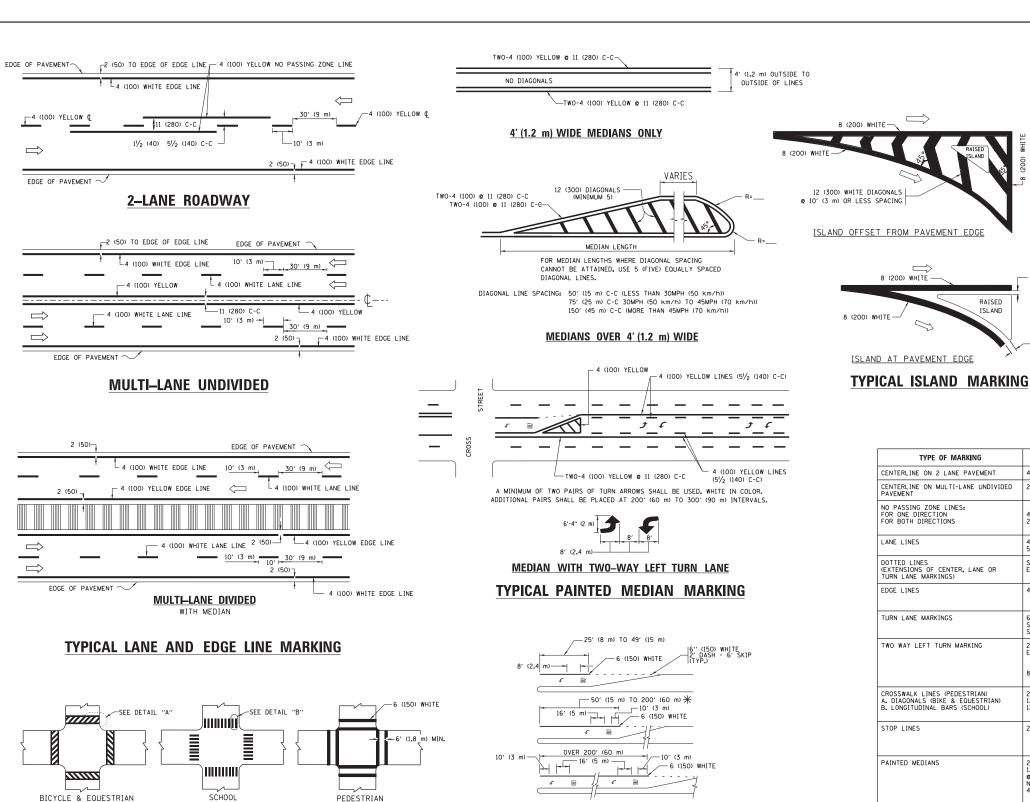
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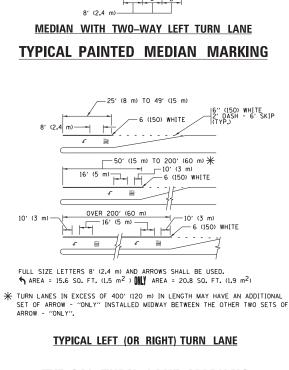
SION ISPORTATION

		TYPICAL APP	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
ı	DAIGED D	EFLECTIVE PAVEMENT MAI	KEBS (SNUM BLUM	PECICTANT\	344	2018-041-BD&BJR	DuPAGE	51	47
ı	NAISED N	EFECTIVE PAVEMENT MAI		TC-11	CONTRACT NO.62H01				
	SCALE: NONE	SHEET NO. 1 OF 1 SHEE	S STA.	TO STA.	FED. RO	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			









TYPICAL TURN LANE MARKING

D(FT) SPEED LIMIT 425 500 580 45 665 50 750 55 40 (1020) **COMBINATION** LEFT AND U-TURN 5'-4" (1620) √ 32 R (810) LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

			01111	
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 e 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH, 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EOUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSMALK, IF PRESENT. OTHERMISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 ml LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m²) EACH "X"=54.0 SO. FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) © 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (0VER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

U-TURN

6'-4" (1930)

— 2 (50)

2 (50)

RAISED

ISLAND

8 (200) WHITE -

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME =	USER NAME = leysa	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-
W:\diststd\22x34\tcl3.dgn		DRAWN -	REVISED - C. JUCIUS 07-01-1
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Default	PLOT DATE = 6/23/2017	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-1

TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF

- 6 (150) WHITE

DETAIL "A"

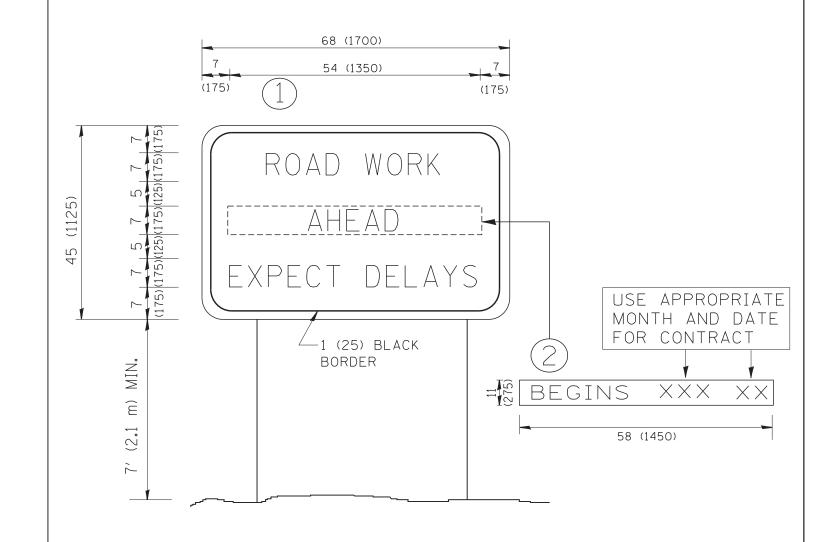
2' (600)

DETAIL "B"

12 (300) WHITE

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE						F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS					344	2018-041-BD&BJR	DuPAGE	51	50	
TTFIGAL PAVEIVIENT IVIANNINUS							TC-13	CONTRACT	NO. 6	2H01
SCALE: NONE	SHEET 1	OF	1 SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		



NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97			ARTERIAL ROAD		F.A.P.	SECTION	COUNTY	TOTAL S	HEET NO.
W:\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS	INFORMATION SIGN			344	2018-041-BD&BJR	DuPAGE	51 51	51
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION	INFURMATION SIG				TC-22	CONTRACT NO. 62HO1		
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJE		AID PROJECT		