04-26-2019 LETTING ITEM 161

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

TRAFFIC DATA

POSTED SPEED LIMIT - 30 MPH DESIGN SPEED LIMIT - 30 MPH 2016 ADT = 450 VPD2040 ADT = 470 VPD

DESIGN DESIGNATION LOCAL ROAD



CONTACT JULIE AT 811 OR 800-892-0123 WITH THE FOLLOWING: COUNTY = WILL

CITY-TWNSHP. = LOCKPORT SEC. & 1/4 SEC. NO. 22NE 48 HOURS 12 Working days) BEFORE YOU DIG

CONTRACT NO. 61F12

Call

Before You Dig

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAP 351 (IL ROUTE 7) (FRONTAGE ROAD) OVER DES PLAINES RIVER **BRIDGE REHABILITATION AND BRIDGE PAINTING** SECTION: 15-00083-00-BR **PROJECT:** AB2A(540) **CITY OF LOCKPORT** WILL COUNTY JOB: C-91-068-16

IMPROVEMENT BEGINS EXISTING SN 099-0135 STA. 13 + 90.67 NUTSTON 5

LOCATION MAP ND SCALE

GROSS LENGTH = 677 FT. = 0.166 MILE NET LENGTH = 1877 FT. = 0.166 MILE

LOCKPORT TOWNS







INDEX OF SHEETS



FILE NAME I	

USER NAME = 488cac	DESIGNED - CAC	REVISED -
	DRAWN - CJC	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JCC	REVISED -
PLOT DATE = 11/5/2018	DATE - 10-08-18	FILE - 150440 SI

HIGHWAY STANDARDS

	000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTE
	001001-02	AREAS OF REINFORCEMENT BARS
VAT STANDANDS	001006	DECIMAL OF AN INCH AND OF A FOOT
	280001-07	TEMPORARY EROSION CONTROL SYSTEMS
	420001-09	PAVEMENT JOINTS
	420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPRO
	442201-03	CLASS C AND D PATCHES
	515001-03	NAME PLATE FOR BRIDGES
	601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
	630001-12	STEEL PLATE BEAM GUARDRAIL
	630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUAR
	631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
	631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
SEQUENCE OF CONSTRUCTION	664001-02	CHAIN LINK FENCE
	701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.
	701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24"
	701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
PING PLAN	701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
	701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DA
	701901-08	TRAFFIC CONTROL DEVICES
	720001-01	SIGN PANEL MOUNTING DETAILS
	720006-04	SIGN PANEL ERECTION DETAILS
	720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATO
	725001-01	OBJECT AND TERMINAL MARKERS
	729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FO
	780001-05	TYPICAL PAVEMENT MARKINGS
	782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOU
	B.L.R. 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVI

DISTRICT 1 DETAILS

BD-34	DISTRICT 1 DETAILS - DETAILS FOR DEPRESSED CURB $\&$ TREATMENT AT TBT TY 1 SPL
TC-10	DISTRICT 1 DETAILS - TRAFFIC CONTROL AND PROTECTIC AND DRIVEWAYS
TC-13	DISTRICT 1 DETAILS - TYPICAL PAVEMENT MARKINGS

TC-22 DISTRICT 1 DETAILS - AERTERIAL ROAD INFORMATION SIGN

COMMITMENTS

- 1. TO MINIMIZE DISTURBANCE OF THE BANDED KILLIFISH DURING SPAWNING, NO IN-STREAM WORK SHALL BE PERFORMED FROM MAY 15 TO JUNE 30.
- 2. SILTATION HAS THE POTENTIAL TO DESTROY THE PREFERRED HABITAT FOR THE BANDED KILLIFISH. THEREFORE, CONTROLLING SILTATION AND REDUCING THE DESTRUCTION OF AQUATIC PLANTS IS CRITICAL.
- 3. WORK MAY NOT BE PERFORMED IN THE WATER, EXCEPT FOR THE PLACEMENT OF MATERIALS NECESSARY FOR THE CONSTRUCTION OF CAUSEWAYS. ALL MATERIALS FOR CAUSEWAYS AND ANY FILLS USED MUST BE NON-ERODABLE. LOW GROUND-PRESSURE EQUIPMENT IS REQUIRED FOR WORK IN WETLANDS. LUMBAR TO BE USED FOR TEMPORARY CONSTRUCTION ACTIVITIES MUST BE FREE OF ALL CHEMICAL TREATMENT, NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME.

	STATE OF ILLINOIS		INDEX	OF SH	EETS, C
	DEPARTMENT OF TRANSPORTATION		ANI) HIGH	WAY S
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ERNS

ROACH SLAB

ARDRAIL TERMINALS

1.5 m) AWAY (600 mm) FROM PAVEMENT EDGE

١S AY ONLY

ORS

DR SIGNS & MARKERS)

UNTING DETAILS ICES FOR CONSTRUCTION ON RURAL LOCAL

GUTTER AND SHOULDER

ION FOR SIDE ROADS, INTERSECTIONS

0	OMMITMENTS		F.A.P. RTE	SEC1	TON	COUNTY	TOTAL SHEETS	SHEET NO.
Т			351	15-00083	3-00-BR	WILL	46	2
	ANDANDS					CONTRACT	NO. 61	LF12
S	STA.	TO STA.			ILLINOIS FED. A	ID PROJECT		



GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE "MANUAL OF TEST

- 16. IF THE CONTRACTOR'S MEANS AND METHODS REQUIRE THE CONSTRUCTION OF TEMPORARY ACCESS CAUSEWAYS IN THE DES PLAINES RIVER, THE WORK SHALL BE IN ACCORDANCE WITH THE APPLICABLE PERMITS AND RECURRING SPECIAL PROVISION FOR TEMPORARY STREAM CROSSINGS AND IN-STREAM WORK PADS.
- 17. THE PERMITS LISTED BELOW AND INCLUDED IN THE SPECIAL PROVISIONS ARE BEING PROVIDED FOR PROJECT CONSTRUCTION
 - A. METROPOLITAN WATER RECLAMATION DISTRICT OF GREATOR CHICAGO GENERAL PERMIT AND ADDENDUM.
 - UNITED STATES ARMY CORP OF ENGINEERS PERMIT Β.
 - C. ILLINOIS DEPARTMENT OF NATURAL RESOURCES, OFFICE OF WATER RESOURCES PERMIT.
 - D. ILLINOIS DEPARTMENT OF NATURAL RESOURCES INCIDENTAL TAKE AUTHORIZATION.

THE PERMITS ACCOMMODATE STAGING AREA. ACCESS ROUTES AND THE INSTALLATION OF TEMPORARY CAUSEWAYS: SEE EACH PERMIT FOR ADDITIONAL INFORMATION. IF THE CONTRACTOR ELECTS TO PURSUE MEANS AND METHODS NOT ACCOMODATED BY THE APPROVED PERMITS, HE WILL BE RESPONSIBLE FOR PERMIT RESUBMITTAL, AGENCY COORDINATION AND RELATED COSTS. NO EXTENSION OF TIME OR COMPENSATION WILL BE GRANTED AS A RESULT OF ANY DELAY IN OBTAINING THE PERMIT TO START CONSTRUCTION.

- 18. THIS PROJECT REQUIRES AN INCIDENTAL TAKE AUTHORIZATION FROM ILLINOIS DEPARTMENT OF NATURAL RESOURCES FOR CONSTRUCTION ACTIVITIES THAT MAY POTENTIALLY AFFECT THE BANDED KILLIFISH. IN ACCORDANCE WITH THAT AUTHORIZATION, THE FOLLOWING CONDITIONS MUST BE MET IF TEMPORARY ACCESS CAUSEWAYS ARE USED DURING CONSTRUCTION:
 - TO KEEP AS MUCH RIVER HABITAT OPEN AS POSSIBLE, ONLY ONE Α. CAUSEWAY SHALL BE CONSTRUCTED AND OPERATED AT A TIME. ONCE WORK IS DONE ON ONE SIDE OF THE BRIDGE, THE TEMPORARY CAUSEWAY WILL BE REMOVED AND THE OTHER CAUSEWAY COULD THEN BE CONSTRUCTED.
 - TEMPORARY CULVERTS SHALL BE PLACED THROUGH THE B CAUSEWAYS TO ALLOW THE FLOW OF THE RIVER TO PASS. THIS WILL MINIMIZE TEMPORARY PONDING AND OBSTRUCTIONS OF FLOW. **KEEPING THE FLOW CONDITIONS AS CLOSE TO EXISTING CONDITIONS** AS POSSIBLE.
- 19. ALL WORK SHALL BE IN ACCORDANCE WITH THE COMMITMENTS LISTED ON SHEET 2.

	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION			GENI	ERAL N
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		F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
IUTES		351	15-00083-00-BR		WILL	46	3
		·			CONTRACT	NO. 61	lF12
TS STA. T	o sta.		ILLINOIS	FED. AI	ID PROJECT		

		· · · · · · · · · · · · · · · · · · ·	******* *****************************			BRIDGE
	CODE NO.		ITEM	UNIT	TOTAL QUANTITY	001 3 RURAL
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)		UNIT	60	60
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)		UNIT	18	18
	20101000			FOOT	400	400
	20101100	TREE TRUNK PROTECTION	······································	EACH	10	10
*	20101200	TREE ROOT PRUNING		EACH	10	10
*	20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)		EACH	15	15
*	20101350	TREE PRUNING (OVER 10 INCH DIAMETER)		EACH	15	15
	20200100	EARTH EXCA VATION	· · · · · · · · · · · · · · · · · · ·	CUYD	110	110
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MA		CUYD	56	56
	21001000	GEOTECHNICAL FABRIC FOR GROUND STABIL	IZATION	SQYD	144	144
	21101505	TOPSOIL EXCA VATION AND PLACEMENT		CUYD	157	157
*	25000312	SEEDING, CLASS 4A		ACRE	0.10	0.10
*	25000314	SEEDING, CLASS 4B		ACRE	0.04	0.04
	28000250	TEMPORARY EROSION CONTROL SEEDING		POUND	526	526
	28000305	TEMPORARY DITCH CHECKS		FOOT	105	105
*	INDICATES SF	ECIALTY ITEM INSTRUCTION CODE 0042 TRAINEES				L
DESIGNED - CAC		REVISED -				
		REVISED	STATE OF ULINOIS		SHIM	

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 BAXTER Consulting Engineers
 USER NAME = 488coc
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 STATE OF ILLINOIS
 SUMMARY OF QUANT

 PLOT DATE = 11/5/2018
 DATE - 10-08-18
 FILE - 150440_SHT_SOQ.dgn
 FILE - 150440_SHT_SOQ.dgn
 STATE OF TRANSPORTATION
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 SHEET 1 OF 6 SHEETS STATE

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		CODE NO.		ITEM	UNIT	TOTAL QUANTITY	BRIDGE 001.3 RURAL
		28000400	PERIMETER EROSION BARRIER		FOOT	1,017	1,017
		28001100	TEMPORARY EROSION CONTROL E	BLANKET	SQ YD	1,497	1,497
		30300001	A GGREGA TE SUBGRA DE IMPROVE	2MENT	CUYD	27	27
		30300112	A GGREGA TE SUBGRA DE IMPROVE	MENT 12"	SQ YD	136	136
					-		
		42001300	PROTECTIVE COAT		SQ YD	128	128
		42000080	PAVEMENT CONNECTOR (PCC) FOR	R BRIDGE APPROACH SLAB	SQ YD	128	128
		44000100	PAVEMENT REMOVAL		SQ YD	262	262
	-	44201299	DOWEL BARS 1 1/2"		EACH	46	46
		44201765	CLASS D PATCHES, TYPE II, 10 INC	Ж	SQ YD	40	40
		44213204	TIE BARS 3/4"		EACH	38	38
		48101500	A GGREGATE SHOULDERS, TY PE B	6"	SQ YD	126	126
		50102400	CONCRETE REMOVAL		CUYD	41.6	41.6
		50200100	STRUCTURE EXCAVATION		CUYD	100	100
		50300225	CONCRETE STRUCTURES		CUYD	29.6	29.6
		50300255	CONCRETE SUPERSTRUCTURE		CUYD	55.3	55.3
	*	INDICA TES SPI INDICA TES CO	ECIALTY ITEM INSTRUCTION CODE 0042 TRAINEES				
USER NAME = 488cac	DESIGNED - CA	١C	REVISED -				
	DRAWN - CJ	c	REVISED -	STATE OF ILLINOIS		SUM	MARY OF QUANT
PLOT DATE = 11/5/2018	DATE - 10	-08-18	FILE - 150440_SHT_SOQ.dgn	DEPARTMENT OF TRANSPORTATION	SCALE: N	I.T.S. SHEET 2	OF 6 SHEETS STA.

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			CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 0013 RURAL
			50300260	BRIDGE DECK GROOVING	SQ YD	1,828	1,828
			50300300	PROTECTIVE COA T	SQ YD	298	298
			50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CUYD	90	90
			50500405	FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	24,608	24,608
			50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	44,810	44,810
			50900200	STEEL RAILING, TYPE 2399	FOOT	1,254	1,254
			51500100	NA ME PLA TES	EACH	1	1
,						· · · · · · · · · · · · · · · · · · ·	
			52000110	PREFORMED JOINT STRIP SEAL	FOOT	77	77
			52100110	ELA STOMERIC BEARING ASSEMBLY, TYPE I	EACH	24	24
			52100120	ELASTOMERIC BEARING ASSEMBLY, TY PE II	EACH	12	12
			52100505	ANCHOR BOLTS, 5/8"	EACH	72	72
			59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	40	40
			60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4
		*	63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	50	50
		*	63000003	ISTEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	114	114
		*	INDICATES SP	ECALTY ITEM			
	T	**	INDICA TES CO	INSTRUCTION CODE 0042 TRAINEES	·····		
USER NAME = 488cac	DESIGNED - DRAWN -	CAC CJC		REVISED - STATE OF ILLINOIS		SUM	MARY OF QUANT
PLOT SCALE = 20.0000 ' / in.	CHECKED -	JCC		REVISED - DEPARTMENT OF TRANSPORTATION			
PLOT DATE = 3/12/2019	DATE -	03-1	2-19	FILE - 150440_SHT_SOQ.dgn	SCALE: N	N.T.S. SHEET 3	OF 6 SHEETS STA.

188cac MODEL: 1

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			SUMMARY OF QUANTITIES			
		CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE 001.3
	*	63100045	TRAFFIC BARRIER TERMINAL, TY PE 2	EACH	1	1
	*	63100167	TRAFFIC BARRIER TERMINAL, TY PE 1 (SPECIAL) TANGENT	EACH	1	1
	*	63100087	TRAFFIC BARRIER TERMINAL, TY PE 6A	EACH	1	1
		63200310	GUARDRAIL REMOVAL	FOOT	548	548
	*	66900200	NON-SPECIAL WASTE DISPOSAL	CUYD	143	143
	*	66901001	REGULA TED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
	÷	66901002	ON-SITE MONITORING OR REGULA TED SUBSTAINCES	DAYS	5	5
. •	*	66901003	REGULA TED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1
	*	66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2
		67000400	ENGINEER'S FIELD OFFICE, TY PE A	CALMO	6	6
		67100100	MOBILIZATION	L SUM	1	1
		70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	1
	*	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	2	2
	*	72400500	RELOCATE SIGN PANEL A SSEMBLY - TYPE A	EACH	3	3
	*	72501000	TERMINAL MARKER - DIRECT A PPLIED	EACH	4	4
	* **	INDICATES SF	ECIALITY ITEM DNSTRUCTION CODE 0042 TRAINEES	I		
0000 ' / in. 2/2019	DESIGNED - CAC DRAWN - CJC CHECKED - JCC DATE - 03-1	2-19	REVISED - STATE OF ILLINOIS REVISED - DEPARTMENT OF TRANSPORTATION FILE - 150440_SHT_SOQ.dgn DEPARTMENT OF TRANSPORTATION	SCALE: N.	SUMI T.S. SHEET 4	MARY OF QUANT

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				SUMMARY OF QUANTITIES						
			T	T			PDIDOS			
		CODE NO.		ITEM	UNIT	TOTAL QUANTITY	001:3 RURAL			
	*	78008310	POLYUREA PAVEMENT MARKING T	YPE II - LINE 4"	FOOT	3,216	3,216			
	*	78200005	GUARDRAIL REFLECTORS, TYPE A		EACH	8	8			
		70001800				12	12			
		20001899		CONIT	EXCI					
		Z0001904	STRUCTURAL STEEL REMOVAL		LSUM	1	1			
				······································						
		Z0003802	REMOVAL OF EXISTING BEARINGS		EACH	24	24			
		Z0004552	APPROACH SLAB REMOVAL		SQYD	128	128			
		70000040			60 V D	1.050	4.050			
		20006012	BRIDGE DECK LA TEX CONCRETE O	VERLAY, 2 1/4 INCHES	SQYD	1,959	1,959			
	*	Z0007112	CONTAINMENT AND DISPOSAL OF I	LEAD PAINT CLEANING RESIDUES	LSUM	1	1			
	*	Z0010501	CLEA NING AND PAINTING STEEL BF	RIDGE NO. 1	LSUM	1	1			
		Z0012130	BRIDGE DECK SCARIFICATION 3/4"		SQYD	1,959	1,959			
		20013798				ï	i			
		Z0015802	PLUG EXISTING DECK DRAINS		EACH	135	135			
		Z0016001	DECK SLAB REPAIR (FULL DEPTH, "	TY PE I)	SQYD	5	5			
		Z0018004	DRAINA GE SCUPPERS, DS-12		EACH	6	6			
		70022900			FOOT	03	03			
		20022000								
	*	INDICA TES SE	LEVELTY ITEM				I			
USER NAME = 488cac	DESIGNED - CAC DRAWN - CIC		REVISED - REVISED -	STATE OF ILLINOIS		SUM	IMARY OF QUANT	TIES	F.A.P. RTE.	ECTION COUNTY
PLOT SCALE = 20.0000 ¹ / in. PLOT DATE = 3/12/2019	CHECKED - JCC DATE - 03-1	2-19	REVISED - FILE - 150440_SHT_SOQ.dgn	DEPARTMENT OF TRANSPORTATION	SCALE: N	T.S. SHEET 5	OF 6 SHEETS STA.	TO STA.		ILLINOIS FED. AID PROJECT

	CODE NO.			ITEM		UNIT	TOTAL QUANTITY	BRIDGE 001 3 RURAL		CODE NO.	Ī
	Z0030850	TEMPOR	ARY INFORMATION SIGNING			SQ FT	75	75	*	X6640560	t
											Ī
	Z0032300	JACKING	EXISTING SUPERSTRUCTURE			L SUM	1	1			
	Z0046304	PIPE UND	ERDRAINS FOR STRUCTURES 4"			FOOT	150	150			ļ
	Z0073410	TEMPOR	ARY SUPPORT SYSTEM, LOCATION 1			EACH	1	1			ł
											t
	Z0073420	TEMPOR	ARY SUPPORT SYSTEM, LOCATION 2			EACH	1	1			
**	Z0076600	TRAINEE	S			HOUR	500	500			ļ
**	70070004					HOUD	500				╞
	20076604	I RAINEE	S TRAINING PROGRAM GRADUA TE			HOUR		500			ł
*	A2002616	TREE, CA	RYA CORDIFORMIS (BITTERNUT HICK	ORY), 2" CALIPER, BALLED A	AND BURLA PPED	EACH	1	1			ŀ
											ł
*	A2002716	TREE, CA	RYA OVATA (SHAGBARK HICKORY), 2" CALIPER, BALLED AND B	URLAPPED	EACH	2	2			ļ
											ļ
*	A2006714	TREE, QL	IERCUS MACROCARPA (BUR OAK), 2	" CALIPER, BALLED AND BUR	LAPPED	EACH	2	2			ļ
*	X2511630	EROSION	CONTROL BLANKET (SPECIAL)	o convictore monthélisine	***************************************	SQYD	1,497	1,497			l
											┢
	X4022000	TEMPOR	ARY ACCESS (COMMERCIAL ENTRAN	CE)		EACH	2	2			ŀ
											ļ
	X5860110	GRANUL	AR BACKFILL FOR STRUCTURES			CUYD	78	78			ļ
*	X6310088	TRAFFIC	BARRIER TERMINAL, TYPE 6A (SPECI	AL)		EACH	3	3			l
										****	ł
*	X6330725	STEEL PL	ATE BEAM GUARDRAIL (SHORT RAD	NUS)		FOOT	55	55			ļ
*	INDICATES SP	ECIALTY	ТЕМ						*		ļ
**	INDICATES CC	DNSTRUCT	ION CODE 0042 TRAINEES						**	INDICATES CC	1
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CODE	ПЕМ	LINIT	TOTAL	BRIDGE
NO.	I CAI	UNIT	QUANTITY	001 3 RURAL
640560	CHAIN LINK FENCE 6' (SPECIAL)	FOOT	60	60
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ATES SP	ECIALTY ITEM			
CATES CO	NSTRUCTION CODE 0042 TRAINEES			
		FAP		
	SUMMARY OF QUANTITIES	RTE. 351 15-	00083-00-BR	WILL 46 9
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-	PLOT DATE = 3/12/2019	DATE - 03-12-19	FILE - 150440_SHT_SOQ.dgn		SCALE: N.T.S.	SHEET	6 (DF 6	SHEE7	rs st/
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3/12/2019 188cac MODEL: FILE NAM

SUMMARY OF QUANTITIES



	APPROACH	SLAB
2	<u>)</u> ''	

							RTE	SECTION	COUNTY	SHEETS	SHEET NO.
			IYPIC	AL SECI	IONS		351	15-00083-00-BR	WILL	46	10
DEPARIMENT OF TRANSPORTATION							_		CONTRAC	T NO. 61	1F12
T_TYPSEC.dgn	SCALE: N.T.S.	SHEET 1	OF 2	SHEETS	STA.	TO STA.		ILLINOIS FED. A	AID PROJECT		

HOT-MIX ASPHALT MIXTURE REQUIREMENT	S
TURE TYPE	AIR VOIDS @ Ndes
CHING	
SS D PATCH (HMA BINDER IL-19mm), 10"	4% @ 70 GYR

							EARTHWO	RK						
LOCA	TION			21101505		30300001		20201200	20200100					66900200
STA T	O STA	TOPSOIL EXCAVATION	EXCAVATION FOR PLACEMENT (15% SHRINKAGE)	TOPSOIL EXCAVATION AND PLACEMENT	TOPSOIL BALANCE WASTE (+) OR SHORTAGE (-)	AGGREGATE SUBGRADE IMPROVEMENT	UNSUITABLE EXCAVATION (TOPSOIL)	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL	EARTH EXCAVATION	TOTAL SUITABLE EXCAVATION	EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE)	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE ()	NON-SPECIAL WASTE DISPOSAL
		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CUYD)	(CU YD)	(CU YD)	(CU YD)
FRONTAGE RO	AD	94	80	52	+29	27	29	56	110	110	93	10	+87	+143
13+90.00	14+00.00	2.0	1.8	1.1	+0.7	-	0.7	0.7	0.1	0.1	0.1	0.5	(-0)	+0
14+00.00	14+50.00	16.3	13.9	9.2	+4.7	-	4.7	4.7	1.0	1.0		2.8	(-3)	+2
14+50.00	15+00.00	24.3	20.7	12.8	+7.9	-	7.9	7.9	4.0	4.0	3.5	1.8	+2	+10
15+00.00	15+50.00	26.5	22.6	12.9	+9.7	-	9.7	9.7	5.2	5.2	4.5	1.2	+4	+14
15+50.00	15+70.00	10.7	9.1	5.2	+3.9	6.0	3.9	9.9	13.4	13.4	11.4	0.9	+11	+21
15+70.00	16+00.00	11.5	9.8	7.8	+2.0	7.0	2.0	9.0	39.3	39.3	33.4	1.8	+32	+41
16+00.00	16+09.60	2.2	2.0	2.5	(-0.5)	1.0	-	1.0	13.0	13.0	11.1	0.6	+11	+12
16+09.60	16+09.60	0.0	-	0.0	-	-	-	-	-	-	-	-	-	-
16+09.60	22+14.40	0.0	-	0.0	-	-	-	-	-	-	-	-	-	-
22+14.40	22+50.00	0.0	-	0.0	-	5.5	-	5.5	19.3	19.3	16.5	-	+17	+23
22+63.40	22+63.40	0.0	-	0.0	-	7.5	-	7.5	14.6	14.6	12.4	-	+13	+21
TEMPORARY C	AUSEWAY	105	90	105	-16									
13+75	14+14 RT	17.0	14.5	17.0	(-2.5)									
14+14	16+15 RT	35.0	29.8	35.0	(-5.2)									
21+35	21+97 LT	35.0	29.8	35.0	(-5.2)									
21+97	22+51 LT	18.0	15.3	18.0	(-2.7)									
тот	ALS	199	170	157	13	27	29	56	110	110	93	10	87	143

			TREE SC	HEDULE	
			A2002616	A2002716	A2006714
			TREE, CARYA CORDIFORMIS	TREE, CARYA OVATA (SHAGBARK	TREE, QUERCUS MACROCARPA (BUR
			(BITTERNUT HICKORY), 2" CALIPER,	HICKORY), 2" CALIPER, BALLED AND	OAK), 2" CALIPER, BALLED AND
			BALLED AND BURLAPPED	BURLAPPED	BURLAPPED
STATION	OFFSET (FT)	SIDE	EACH	EACH	EACH
15+00	30.0	RT			1
15+25	30.0	RT		1	
15+50	30.0	RT	1		
15+75	30.0	RT		1	
16+00	30.0	RT			1
			1	2	2

	ROADWAY SCHEDULE							
		44000100	42000080	44201765	30300112	21001000	48101500	
		PAVEMENT REMOVAL	PROPOSED PCC PAVEMENT CONNECTOR FOR BRIDGE APROACH SLAB	CLASS D PATCHES, TYPE II, 10 INCH	AGGREGATE SUBGRADE IMPROVEMENT 12"	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	AGGREGATE SHOULDERS, TYPE B 6"	
FROM	то	SQ YD	SY YD	SY YD	SY YD	SQ YD	SQ YD	
IL ROUTE 7 (F	FRONTAGE R	OAD)						
15+60.60	16+09.60	131	64		68	72		
22+14.40	22+63.40	131	64		68	72		

тот	ALS	262	128	40	136	144	126
22+18.00	22+48.00						14
22+48.00	22+67.00			20			
22+48.00	22+67.00			20			
22+10.00	22+49.00						18
13+92.00	15+60.60						57
14+50.00	15+60.60						37
22+14.40	22+63.40	131	64		68	72	
15+60.60	16+09.60	131	64		68	72	
IL ROUTE 7 (FRONTAGE ROA	D)					

RANTER SWOODMAN	USER NAME = 488cac	DESIGNED - CAC	REVISED -
		DRAWN - CJC	REVISED -
Consulting Engineers	PLOT SCALE = 20.0000 ' / in.	CHECKED - JCC	REVISED -
-	PLOT DATE = 11/5/2018	DATE - 10-08-18	FILE - 150440_9

(20200100) (20201200) REMOVAL AND DISPOSAL OF UI (21101505) TOPSOIL EXCAVAT (30300001) AGGREGATE SUBG (66900200) NON-SPECI

	EROSION CONTROL SCHEDULE							
			28001100	28000250	28000305	28000400		
FROM	ТО	SIDF	TEMPORARY EROSION CONTROL BLANKET SQ YD	TEMPORARY EROSION CONTROL SEEDING POUND	TEMPORARY DITCH CHECKS FOOT	PERIMETER EROSION BARRIER FOOT		
IL 7 FRONTA	GE ROAD							
14+32	16+04	LT	187	66		185		
13+92	16+14	RT	241	85		217		
22+15	22+31	LT	15	5				
22+27	22+54	RT	13	5				
TEMPORARY	ACCESS FO	R BRIDGE WORK						
13+75	14+14	RT	515	181	45	300		
21+35	21+97	LT	526	185	60	315		
	TOTALS	S	1,497	526	105	1,017		

			PARKW	AY RESTORATION			
				21101505	25000312	25000314	X2511630 EROSION
			PROPOSED RESTORATION AREA	TOPSOIL EXCAVATION AND PLACEMENT	SEEDING, CLASS 4A	SEEDING, CLASS 4B	CONTROL BLANKET (SPECIAL)
FROM	ТО	SIDE	SQ YD	CU YD	ACRE	ACRE	SQ YD
IL 7 FRONT	AGE ROAD						
14+32	16+04	LT	187	21	0.01		187
13+92	16+14	RT	241	27	0.01		241
22+15	22+31	LT	15	2	0.01		15
22+27	22+54	RT	13	2	0.01		13
TEMPORAR	Y ACCESS FO	R BRIDGE	WORK				
13+75	14+14	RT	178	17	0.02		178
14+14	16+15	RT	337	35		0.02	337
21+35	21+97	LT	338	35	0.02	0.02	338
21+97	22+51	LT	188	18	0.02		188
	TOTALS	1	1,497	157	0.10	0.04	1,497

SCHEDULE OF QU

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

_SHT_SCHEDULE.dgn

SCALE: N.T.S.

SHEET 1 OF 1 SHEETS

EARTHWORK PAY ITEM SUMMARY

TOTAL	_
110	CU YD
56	CU YD
157	CU YD
27	CU YD
143	CU YD
	TOTAL 110 56 157 27 143

F.A.P. RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.
351	15-0008	15-00083-00-BR		WILL	46	11
_				CONTRAG	CT NO. 6	1F12
		ILLINOIS	FED. AI	D PROJECT		
	F.A.P. RTE. 351	F.A.P. RTE. 351 15-0008	F.A.P. RTE. SECTION 351 15-00083-00-BR ILLINOIS ILLINOIS	F.A.P. RTE. SECTION 351 15-00083-00-BR ILLINOIS FED. A	F.A.P. RTE. SECTION COUNTY 351 15-00083-00-BR WILL CONTRACTION ILLINOIS	F.A.P. RTE. SECTION COUNTY TOTAL SHEETS 351 15-00083-00-BR WILL 46 CONTRACT NO. 61 ILLINOIS FED. AID PROJECT



BECNCHMARK DATA

BM #4	X SET ONTOP ELEV 578.07	CONCRETE PILLAR (NAVD 88)

X SET SE ONTOP POST OF BRIDGE ELEV 584.63 (NAVD 88) BM #6

CONTROL POINTS

СР	#1	N1794324.331	E1056168.827	ELEV 573.89	СΡ	Х	CL W B
CP	#2	N1794125.241	E1056685.927	ELEV 579.023	CP	Х	S WALK
CP	#3	N1794029.313	E1057008.953	ELEV 582.025	CP	Х	CL EAS
CP	#5	N1794043.384	E1056920.552	ELEV 581.652	CP	Х	S WALK





IL ROUTE 7 FRONTAGE ROAD

OF



1,056,025.54 Sta	12+00.00
Dist 41.08	
1,056,054.80 Sta	12+41.08
° 34' 10.38" E Dist 14	1.18
l,794,327.61 E LT)	1,056,154.44
1,794,412.19 E 1,794,287.00 E 1,794,829.76 E 3" E 4" E L" E	1,056,065.09 1,056,270.57 1,056,460.39
° 43' 26.04" E Dist 86	6.29
1,057,088.30 Sta	23+63.96
Dist 86.04	
1,057,169.95 Sta	24+50.00

IES AND BENCHMARKS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		15-00083-00-BR	WILL	46	12
			CONTRACT	NO. 63	1F12
SHEETS STA. 13+50 TO STA. 24+00		ILLINOIS FED. A	ID PROJECT		







MAINTENANCE OF TRAFFIC AND CONSTRUCTION STAGING NOTES

- CLOSED.
- STAGING.
- PROTECTION.
- CONSTRUCTION UTILIZING THE PAY ITEM FOR TEMPORARY ACCESS (COMMERCIAL ENTRANCE).
- EXISTS.
- LOCATIONS AT THE START OF CONSTRUCTION.

USER NAME = 488cac	DESIGNED - CAC	REVISED -
	DRAWN - CJC	REVISED -
PLOT SCALE = 300.0000 ' / in.	CHECKED - JCC	REVISED -
PLOT DATE = 11/5/2018	DATE - 10-08-18	FILE - 150440_SHT_N

1. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER, BUSINESSES, RESIDENTS AND THE CITY WHEN ACCESS TO DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL DISTRIBUTE NOTICES PROVIDED BY THE CITY TO BUSINESSES AND RESIDENTS AT LEAST 24 HOURS PRIOR TO PLANNED CLOSURES. EVERY EFFORT SHALL BE MADE TO NOTIFY RESIDENTS INCLUDING KNOCKING ON DOORS WHEN DRIVEWAYS ARE ABOUT TO BE

2. THE ENGINEER SHALL BE INFORMED 48 HOURS IN ADVANCE OF ANY CHANGE IN CONSTRUCTION

3. THE FURNISHING, INSTALLING, AND RELOCATION OF ALL TRAFFIC SIGNS SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND PROTECTION. ALL CONFLICTING TRAFFIC SIGNS SHALL BE COVERED AS DIRECTED BY THE ENGINEER. THIS SHALL BE INCLUDED IN THE COST FOR TRAFFIC CONTROL AND

4. THE CONTRACTOR SHALL PROVIDE TEMPORARY ACCESS TO COMMERCIAL DRIVEWAYS DURING

5. THE CONTRACTOR SHALL SUBMIT A PREPLANNED SEQUENCE OF WORK AT THE PRECONSTRUCTION CONFERENCE FOR REVIEW AND APPROVAL. WORK SHALL BE SCHEDULED TO MINIMIZE INCONVENIENCE TO RESIDENTS AND BUSINESSES AND TO MAINTAIN A REASONABLE LEVEL OF CONSTRUCTION EFFICIENCY. THE ENGINEER RESERVES THE RIGHT TO RESTRICT WORK ON ANY ROADWAY SEGMENT IF CONSTRUCTION OPERATIONS ON A PREVIOUS SEGMENT ARE UNACCEPTABLE: TRAFFIC CONTROL OPERATIONS BECOME UNACCEPTABLE; OR AN EROSION CONTROL DEFICIENCY

6. CONSTRUCTION VEHICLES AND/OR EQUIPMENT SHALL NOT BE PARKED OVERNIGHT WITHIN THE RIGHT-OF-WAY. THE ENGINEER WILL ASSIST THE CONTRACTOR IN IDENTIFYING CONSTRUCTION STAGING

SUGGESTED SEQUENCE OF CONSTRUCTION

<u>STAGE 1</u>

CONSTRUCTION

- ESTABLISH EROSION CONTROL MEASURES AND TREE PROTECTION. 1.
- 2. COMPLETE TREE REMOVAL.
- COMPLETE UTILITY RELOCATIONS. 3.

TRAFFIC

- UTILIZE B.L.R. 21-9 FOR CLOSURE OF IL 7 FRONTAGE ROAD. MODIFY AND/OR SUPPLEMENT THE ROAD CLOSURE HIGHWAY STANDARD B.L.R. 21-9. R11-2 SIGN, SPECIFIED IN THE HIGHWAY STANDARD, SHALL READ "BRIDGE CLOSED".
- 2. EXISTING TYPE III BARRICADES AND TEMPORARY CONCRETE BARRIER SHALL BE RELOCATED TO THE LOCKPORT PUBLIC WORKS YARD AT 17112 PRIME BOULEVARD UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- FOR WORK OUTSIDE THE ROAD CLOSURE, UTILIZE TRAFFIC CONTROL STANDARDS AND 3. LANE CLOSURES AS APPROVED BY THE ENGINEER ACCORDING TO HIGHWAY STANDARDS 701001, 701006, 701011, 701301, AND 701311.

<u>STAGE 2</u>

CONSTRUCTION

- INSTALL TEMPORARY SUPPORT SYSTEM AT PIERS 2 & 6. 1.
- 2. PERFORM STRUCTURAL REPAIRS OF BRIDGE (SEE BRIDGE PLANS FOR SPECIFIC STAGING)
- 3. REMOVE EXISTING PAVEMENT AND GUARDRAIL
- PERFORM EARTHWORK GRADING.
- CONSTRUCT AGGREGATE SUBGRADE IMPROVEMENTS.
- CONSTRUCT APPROACH AND CONNECTOR PAVEMENT.
- INSTALL PAVEMENT MARKINGS. 8. INSTALL GUARDRAIL AND TERMINAL SECTIONS

TRAFFIC

- MAINTAIN THE ROAD CLOSURE ACCORDING TO HIGHWAY STANDARD B.L.R. 21-9.
- FOR WORK OUTSIDE THE ROAD CLOSURE, UTILIZE TRAFFIC CONTROL STANDARDS AND 2. LANE CLOSURES AS APPROVED BY THE ENGINEER ACCORDING TO HIGHWAY STANDARDS 701001, 701006, 701011, 701301, AND 701311.

STAGE 3

CONSTRUCTION

- 1. REOPEN ROADWAY.
- COMPLETE PUNCH LIST ITEMS.
- REMOVE TEMPORARY EROSION CONTROL ITEMS ONCE SEED ESTABLISHES 3.

TRAFFIC

UTILIZE TRAFFIC CONTROL STANDARDS AND LANE CLOSURES AS APPROVED BY THE 1 ENGINEER ACCORDING TO HIGHWAY STANDARDS 701001, 701006, 701011, 701301, AND 701311.

			SUGGESTED	MAINTI	ENANCE
	STATE OF ILLINOIS		AND	SEQUEN	CE OF C
MOT-1.dgn		SCALE:	SHEET	OF	SHEETS

OF TRAFFIC NOTES ONSTRUCTION		F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
		351	15-00083-00-BR		WILL	46	16
					CONTRACT	NO 61	lF12
5 STA.	TO STA.			ILLINOIS FED. A	ID PROJECT		



 STATE OF ILLINOIS	EROSION COI
DEPARTMENT OF TRANSPORTATION	

							CONTRACT I
ETS	STA.	13+50	to sta. 24+00	I	LLINOIS	FED. Al	D PROJECT

GENERAL SOIL EROSION AND SEDIMENT CONTROL NOTES

- 1. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- 2. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- 3. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES IMMEDIATELY AFTER DISTURBANCE, OR REDISTURBANCE.
- 4. AREAS OR EMBANKMENTS HAVING SLOPES GREATER THAN OR EQUAL TO 3H:1V. AND APPROVED BY THE ENFORCEMENT OFFICER, SHALL BE STABILIZED WITH MAT OR BLANKET IN COMBINATION WITH SEEDING.
- 5. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- 6. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE CONTRACTOR SHALL BE ULTIMATELY RESPONSIBLE FOR MAINTENANCE AND REPAIR OF EROSION CONTROL MEASURES.
- 7. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (e.g. SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURE. DEWATERING DIRECTLY INTO STREAMS, WETLANDS, FIELD TILES OR STORM WATER STRUCTURES IS PROHIBITED.
- 8. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE WILL-SOUTH COOK COUNTY SWCD, ENGINEER, OR LOCAL AGENCY.
- THE CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH WILL-SOUTH COOK COUNTY SOIL AND WATER CONSERVATION DISTRICT AND OTHER INTERESTED REGULATORY AGENCIES AND OFFICIALS PRIOR TO CONSTRUCTION.
- 10. THE CONTRACTOR SHALL COMPLY WITH REQUIREMENTS FROM THE U.S. ARMY CORPS OF ENGINEERS, WILL-SOUTH COOK COUNTY SOIL AND WATER CONSERVATION DISTRICT, AND CITY OF LOCKPORT.
- 11. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS IN THE ILLINOIS URBAN MANUAL.
- 12. ALL EROSION CONTROL MEASURES MUST BE INSPECTED WEEKLY AND WITHIN 24 HOURS AFTER EACH RAIN EVENT RESULTING IN RUNOFF FROM THE SITE.
- 13. WORK IN THE WATERWAY SHOULD BE TIMED TO TAKE PLACE DURING LOW FLOW CONDITIONS.
- 14. WORK MAY NOT BE PERFORMED IN THE WATER, EXCEPT FOR THE PLACEMENT OF MATERIALS NECESSARY FOR THE CONSTRUCTION OF CAUSEWAYS. ALL MATERIALS FOR CAUSEWAYS AND ANY FILLS USED MUST BE NON-ERODABLE AND CONSTRUCTED TO WITHSTAND HIGH FLOWS. LOW GROUND-PRESSURE EQUIPMENT IS REQUIRED FOR WORK IN WETLANDS. LUMBER TO BE USED FOR TEMPORARY CONSTRUCTION ACTIVITIES MUST BE FREE OF ALL CHEMICAL TREATMENT. NO EQUIPMENT MAY ENTER THE WATER AT ANY TIME.



- 15. IF BYPASS PUMPING IS NECESSARY, THE PUMP SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM BEING SUCKED INTO THE HOSE. THE BYPASS DISCHARGE SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE (ROCK CHECK DAM, PLYWOOD. SHEET PILE. ETC.) PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION OF DOWNSTREAM AREAS. CLEANING OR FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES.
- 16. DEWATERING MEASURES SHALL COMPLY WITH THE ILLINOIS URBAN MANUAL. DURING DEWATERING. THE WATER SHALL BE FILTERED TO REMOVE SEDIMENT PRIOR TO DISCHARGE TO THE STREAM. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONIC POLYMERS, DEWATERING BAGS. OR OTHER APPROPRIATE METHODS. FILTRATION AREA SHALL BE PLACED ON A STABILIZED AREA OR DISCHARGE TO AN ENERGY DISSAPATING SURFACE PRIOR TO BEING RE-INTRODUCED TO DOWNSTREAM WATERWAY. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY. THE DISCHARGE FROM THE DEWATERING DEVICE SHALL NOT CAUSE EROSION. ANY TREATMENT REQUIRED IS THE CONTRACTORS RESPONSIBILITY AND NO EXTRA COSTS WILL BE PAID.
- 17. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED FOR REVIEW BY THE WILL-SOUTH COOK COUNTY SWCD.
- 18. EXCEPT WHERE SHOWN OTHERWISE ON THE PLANS. THE SIDE SLOPES MUST BE RESEEDED AND STABILIZED IMMEDIATELY AFTER FINAL GRADING WITH AN APPROPRIATE EROSION CONTROL BLANKET PRIOR TO ACCEPTING FLOWS. THE BOTTOM OF THE CHANNEL MUST BE BROUGHT BACK TO ITS ORIGINAL GRADE AND STABLE ENOUGH TO ACCEPT FLOWS.
- 19. THE PORTION OF THE SIDE SLOPE THAT IS ABOVE THE OBSERVED WATER ELEVATION SHALL BE STABILIZED AS SPECIFIED IN THE PLANS PRIOR TO ACCEPTING FLOWS. THE SUBSTRATE AND TOE OF SLOPE THAT HAS BEEN DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PROPOSED OR PRE-CONSTRUCTION CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.
- 20. STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE FOR MORE THAN THREE DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
- 21. CONCRETE WASHOUT FACILITIES SHALL BE INSTALLED, OPERATED AND MAINTAINED IN ACCORDANCE WITH THE ILLINOIS URBAN MANUAL.
- 22. ALL ADJACENT ROADWAYS MUST BE KEPT CLEAR OF DEBRIS, INSPECTED DAILY AND CLEANED WHEN NECESSARY.
- 23. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- 24. FINAL ACCEPTANCE OF PROJECT WILL BE CONTIGENT ON RECORD DRAWING APPROVAL BY THE ENGINEER.
- 25. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS, PERMITS, AND ASSURE COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS.
- 26. THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DEPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO THE DEVELOPMENT SITE, CHANNEL, WATERS OF THE U.S. OR ISOLATED WATERS OF WILL COUNTY. THE CONTRACTOR SHALL MAINTAIN THE DEVELOPMENT SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.
- 27. THIS PROJECT REQUIRES ARMY CORPS OF ENGINEERS (USACE) 404 PERMIT THAT WILL BE SECURED BY THE CITY, AS A CONDITION OF THIS PERMIT. THE CONTRACTOR WILL NEED TO SUBMIT AN IN-STREAM WORK PLAN TO WILL-SOUTH COOK SWCD FOR APPROVAL. GUIDELINES ON ACCEPTABLE IN-STREAM WORK TECHNIQUES CAN BE FOUND ON THE USACE WEBSITE. THE USACE DEFINES AND DETERMINES IN-STREAM WORK.

THE COST OF ALL MATERIALS, EQUIPMENT, AND LABOR NECCESSARY TO COMPLY WITH THE ABOVE PROVISIONS TO PREPARE, ACCESS, AND IMPLEMENT AN IN-STREAM WORK PLAN WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICE FOR THE WORK FOR WHICH IT IS REQUIRED AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

REVISED

REVISED

REVISED

- 10-08-18

MAINTENANCE SCHEDULE

1. SILT FENCE - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL SILT FENCE WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE SILT FENCE FUNCTIONAL AS DESIGNED.

2. EROSION BLANKET - AT A MINIMUM, THE CONTRACTOR SHALL INSPECT ALL EROSION BLANKET WEEKLY OR AFTER EACH ONE-HALF INCH OR GREATER RAINFALL EVENT. ANY REQUIRED REPAIRS SHALL BE MADE BY THE CONTRACTOR TO KEEP THE EROSION BLANKET FUNCTIONAL AS DESIGNED.

3. THE EROSION CONTROL QUANTITIES PROVIDED IN THE PLANS ARE APPROXIMATE. THE ACTUAL NEED FOR QUANTITIES WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

SUGGESTED CONSTRUCTION SEQUENCING

1. INSTALL SEDIMENT AND EROSION CONTROL SYSTEMS. 2. INSTALL FIRST CAUSEWAY (EITHER SIDE). 3. PERFORM WORK WITHOUT DEBRIS ENTERING THE EXISTING WATERWAY. 4. DECONSTRUCT FIRST CAUSEWAY. 5. INSTALL SECOND CAUSEWAY ON OPPOSITE SIDE OF THE RIVER. 6. PERFORM WORK WITHOUT DEBRIS ENTERING THE EXISTING WATERWAY. 7. DECONSTRUCT SECOND CAUSEWAY. 8. COMPLETE RESTORATION OF ALL DISTURBED AREAS. 9. REMOVE EROSION CONTROL MEASURES.

F CONTROL NOTES		F.A.P. RTE.	F.A.P. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
		351	15-00083-00-BR			WILL	46	18	
		CONTRACT NO. 61F1					LF12		
5	STA.	o sta.			ILLINOIS	FED. AI	D PROJECT		



DES PLAINES RIVER			N	
4"	LINE (DOUBLE YELL	LOW, 11" C-C) EXISTING Q IL 7 FR	ONTAGE RD	Т Н Ш
<u>.</u> <u>r</u> <u>r</u> <u>r</u> <u>r</u>		x=		
/				EE BEI
				- 20 -
	XXXXX	<u></u>	<u></u>	
				TCH LINE STA
		LEGEND		A M
		EROSION CONTROL WITH CLASS 4A SE	_ BLANKET (S EDING	SPECIAL)
		EROSION CONTROL WITH CLASS 4B SE	_ BLANKET (S EDING	SPECIAL)
	(+)	PROPOSED TREE		
		WETLAND BOUND	ARY	
		WATERS EDGE		
PAVE	MENT MARKING LEG	GEND		
(1) (2) $(x - x - x)$ $(x - x - x - x - x - x - x - x - x)$ $(x - x - x - x - x - x - x - x - x - x -$	POLYUREA PAVEME POLYUREA PAVEME MV 77777777777777777777777777777777	ENT MARKING TYPE ENT MARKING TYPE VRD PROPERTY STING EASEMENT	II - LINE 4" (II - LINE 4" (WHITE) DOUBLE YELLOW)
BRIDGE WEIGHT LIMIT 8	B TONS" / /			
END	/			
/ IMPROVEMENTS STA 22+67.62				
_ <u></u> <u>k</u>				
NOTES:		<u> </u>		
I. THE LOCATION	ATION OF THE PROP SHALL BE DETERN S. SEE TREE SCHEN ORMATION. EXIST	POSED TREES ARE A MINED AND APPROV DULE, SCHEDULE OF ING EASEMENT ////////////////////////////////////	APPROXIMATE ED IN THE FI = QUANTITIES ∠	E. FINAL TREE ELD BY THE 5 FOR
AND LANDSCAP		A.P. SECTIO		COUNTY TOTAL SHEET SHEETS NO.
S STA. 13+50 TO	STA. 24+00	<u>المارية (15-00083-0</u>		WILL 46 19 CONTRACT NO. 61F12

Benchmark: See Alignment & Ties Sheet

Existing Structure: S.N. 099-0135 is an 8-span steel superstructure with concrete deck, built in 1957 under Section 535-B-F-1, F.A. Route 62. Bridge skew is 15 degree (right). Configuration for spans 1-2 continuous 62'-62'; spans 3-6 continuous 77'-98'-6"-98'-6"-77'; spans 7-8 continuous 62'-62'. Overall span back to back of abutments is $603'-0\frac{1}{2}''$ with an out to out width of 35'-8''. 36" steel girders spaced at 6'-7" support a non-composite 7" concrete slab. Steel roller bearings at abutment and piers 2 & 6; steel rocker bearings at Piers 3 & 5; fixed steel bearings at piers 1, 4 & 7. Closed concrete abutments supported on spread footing, keyed into rock. Solid wall concrete piers on spread footings, keyed into rock.



DEPARTMENT OF TRANSPORTATION

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<u>GENERAL PLAN</u>				
IL-7 FRONTA	GE ROAD OVER DES PLAINES RIVER			
<u>S</u>	ECTION 15-00083-00-BR			
	WILL COUNTY			
belief,	STATION 19+12			
oading shown	TRUCTURE NO. 099-0135			
e of structure – LRFD Bridge				

GENERAL PLAN		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
TRUCTURE NO 000 0125	51	15-00083-00-BR			WILL	46	20
1100101L NO. 055-0135					CONTRACT	NO. 6	1F12
SHEET NO. 1 OF 21 SHEETS			ILLINOIS	FED. AI	D PROJECT		

<u>GENERAL NOTES</u>

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in painted areas. Bolts $\frac{7}{8}$ -in. Ø, holes 1-in. Ø, unless otherwise noted.

No field welding is permitted except as specified in the contract documents. Reinforcement bars designated (E) shall be epoxy coated.

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

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except causeways.

Copies of record drawings for the existing bridge are available upon request. Contact Baxter & Woodman at (815) 459–1260 Ext. 4415 and allow up to two business days.

PAINTING NOTES

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

Cleaning and painting of the existing structural steel shall be as specified in the special provision for "Cleaning and Painting Existing Steel Structures". All existing steel shall be cleaned per Near White Blast Cleaning – SSPC-SP10. All existing steel shall be painted according to the requirements of Paint System 1 -OZ/E/U. The color of the final finish coat for all interior steel surfaces shall be Gray, Munsell No 5B 7/1. The color of the final finish coat for the exterior and bottom flange of the fascia beams shall be Interstate Green, Munsell No. 7.5G 4/8.

The Organic Zinc Rich Primer/Epoxy/Urethane paint system shall be used for painting of new structural steel unless otherwise noted. The entire system shall be shop applied, with the exception of the exterior surfaces, masked off connection surfaces, field installed fasteners, and damaged areas, all of which shall be touched up and finish coated in the field. The color of the final finish coat for all interior steel surfaces shall be gray, Munsell No. 5B 7/1. The color of the final finish coat for the exterior surfaces shall be Interstate Green, Munsell No. 7.5G 4/8.

The entire existing steel superstructure shall be cleaned and painted as noted, with the exception of existing beam ends at abutments to be encased in concrete, and associated steel diaphragms. These areas shall be cleaned as noted and painted with the primer coat only, or additional coats at the contractor's option. All steel surfaces not to be encased in concrete shall receive the complete OZ/E/U paint system as noted.

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	PLOT DATE =	DATE – 03-12-19	REVISED -

INDEX OF SHEETS

- 1. General Plan
- 2. General Data
- 3. Deck Repair I
- 4. Deck Repair II
- 5. Expansion Joint Replacement Details
- 6. Preformed Joint Strip Seal
- 7. Diaphragm Details
- 8. West Approach Slab Details I
- 9. West Approach Slab Details II
- 10. East Approach Slab Details
- 11. Bearing Details at Abutments
- 12. Bearing Details I at Piers 2 & 6
- 13. Bearing Details II at Piers 2 & 6
- 14. Abutment Removal Details 15. West Abutment
- 16. East Abutment
- 17. Structural Steel Repairs I
- 18. Structural Steel Repairs II
- 19. Structural Steel Repairs III
- 20. Drainage Scupper, DS-12
- 21. Steel Railing, Type 2399



2" PJF (per Article 1051.09 of Standard Specifications) full width and vertically at edges bonded to abutment cap with suitable adhesive as recommended by supplier.



(Horiz. dims. @ Rt. L's)

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101)

STATE OF ILLINOIS	GENERAL DA
DEPARTMENT OF TRANSPORTATION	STRUCTURE NO.
	SHEET NO. 2 OF 21

ITEM	UNIT	TOTAL
Removal	Cu Yd	41.6
Excavation	Cu Yd	100
Structures	Cu Yd	29.6
Superstructure	Cu Yd	55.3
eck Grooving	Sq Yd	1,828
e Coat	Sq Yd	298
Superstructure (Approach Slab)	Cu Yd	90
g And Erecting Structural Steel	Pound	24,608
and Painting Steel Bridge No. 1	L Sum	1
ment Bars, Epoxy Coated	Pound	44,810
ling, Type 2399	Foot	1,254
tes	Each	1
d Joint Strip Seal	Foot	77
ic Bearing Assembly, Type I	Each	24
ic Bearing Assembly, Type II	Each	12
olts, 5/8"	Each	72
site Wall Drain	Sq Yd	40
Backfill for Structures	Cu Yd	78
Remove Existing Bearings	Each	12
l Steel Removal	L Sum	1
of Existing Bearings	Each	24
Slab Removal	Sq Yd	128
eck Latex Concrete Overlay, $2\frac{1}{4}$ Inches	Sq Yd	1,959
ent and Disposal of Lead Paint Cleaning Residues	L Sum	1
eck Scarification $\frac{3}{4}$ "	Sq Yd	1,959
ting Deck Drains	Each	135
Repair (Full Depth, Type I)	Sq Yd	5
Scuppers, DS-12	Each	6
xisting Superstructure	L Sum	1
erdrains for Structures 4"	Foot	150
y Support System, Location 1	Each	1
y Support System, Location 2	Each	1

TOTAL BILL OF MATERIAL

Granular Backfill for Structures (See Supplemental Specification)

Approach slab Excavation is paid for as Structure Excavation Fabric Reinforced Elastomeric Mat according to Section 1028 of Std. Specs. Fabric mat shall be 24" wide * Geotechnical Fabric for and attached full width and vertically at edges to the abutment cap with a $3/8" \times 5"$ steel plate and $1/2" \phi$ studs with nuts and washers at 12" cts. Cost included with Concrete Superstructure. - *Drainage Aggregate *4" • Perforated Pipe Underdrain

(Slope to drain min. 0.5%)

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

ΑΤΑ	F.A.P. RTE.	SECT	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
000 0125		351 15-00083-00-BR			WILL	46	21
039-0120					CONTRAC	F NO. 6	1F12
SHEETS			ILLINOIS	FED. AI	d project		





Notes:

Entire existing deck to be scarified $\frac{3}{4}$ " and overlayed with $2\frac{1}{4}$ " Latex Concrete.

Existing reinforcement bars & dowel rods extending into new concrete are to be cleaned and incorporated into new construction. Deck repair areas are estimated from field visit Fall 2015. Actual locations or repairs made shall be shown by the Engineer on As Built plans.

Drains shall be located clear of all diaphragms.



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<u>LEGEND</u> \bigotimes Deck reconstruction **Partial Depth Patching (88 Sq Yd, for entire deck) **Partial Depth Patching shown for information only.

BILL OF MATERIAL							
Item	Unit	Total					
Deck Slab Repair (Full Depth, Type I)	Sq Yd	5					
Bridge Deck Scarification, $\frac{3}{4}$ "	Sq Yd	1,959					
Bridge Deck Grooving	Sq Yd	1,828					
Bridge Deck Latex Concrete Overlay, 2¼"	Sq Yd	1,959					
Quantity is estimated (not shown on	nlan)						

STATE OF ILLINOIS	DECK REPAIRS I STRUCTURE NO 099-0135	F.A.P. RTE. 351	SECTION 15-00083-00-BR	COUNTY	TOTAL SHEETS 46	SHEET NO. 22
DEPARTMENT OF TRANSPORTATION	3111001011E 110: 033-0135			CONTRAC	T NO. 63	IF12
	SHEET NO. 3 OF 21 SHEETS		ILLINOIS F	ED. AID PROJECT		

* Quantity is estimated. (not shown on plan)



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		DECK REPAIRS II	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STRUCTURE NO 000_0135	351	15-00083-00-BR	WILL	46	23
		31N0CIONE NO. 039-0135	-		CONTRACT	F NO. 6	1F12
		SHEET NO. 4 OF 21 SHEETS		ILLINOIS FED. AI	D PROJECT		

Bar	No.	Size	Length	Shape
a2(E)	48	#5	2'-0''	
Concrete	e Removal		Cu Yd	2.0
Plug Exi	sting Dec	k Drains	Each	135
Reinforc	ement Bai	rs,	Pound	110
Ероху С	oated			
Concrete	e Superstr	ucture	Cu Yd	2.1
Protecti	ve Coat		Sq Yd	9



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Notes:

Hatched areas indicate concrete sections to be removed. Care shall be exercised by the contractor during and following Concrete Removal operations to ensure that the existing rebar remaining in place are not damaged. All existing reinforcement to be incorporated into new

construction shall be blast-cleaned, straightened, and properly positioned prior to concrete placement. Any reinforcement damaged during

Concrete Removal shall be repaired or replaced using an approved Bar Splicer or Mechanical System. Cost Included with Concrete Removal. Existing railing posts and anchorage devices adjacent to expansion joints shall be maintained in place, cleaned and incorporated into new construction Cost included with Concrete Removal.

Existing reinforcement bars that are parallel to the expansion joint shall be removed.

Removal of the existing expansion joints will not be paid for separately, but shall be included with the cost of Structural Steel Removal.

Top Surface of new concrete shall be constructed $1\frac{1}{2}$ " higher than existing slab elevation, after all Jacking Superstructure operations are completed.

Bar	No.	Size	Length	Shape
a(E)	20	#5	6'-3''	
a1(E)	20	#5	36'-4"	
c(E)	24	#5	2'-6"	l
c1(E)	24	#5	2'-7"	
x(E)	144	#5	2'-7"	L
Concre	te Remo	val	Cu Yd	10.2
Reinfo	rcement	Bars,	Dound	1 0 2 0
Ероху	Coated		Pounu	1,920
Concre	te			126
Supers	structure	<u> </u>	CUTU	12.0
Protect	tive Coa	t	Sq Yd	37

BILL OF MATERIAL



ACEMENT DETAILS		SEC	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
		15-0008	3-00-BR		WILL	46	24
099-0135					CONTRACT	46 4CT NO. 61	1F12
I SHEETS			ILLINOIS	FED. AI	D PROJECT		



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

	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PREFORMED JOINT STRIP SEAL	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET
		STRUCTURE NO 099_0135	351	15-00083-00-BR	WILL	46	25
					CONTRA	CT NO. 6	51F12
		SHEET NO. 6 OF 21 SHEETS		ILLINOIS	FED AID PROJECT		



LOCKING EDGE RAIL SPLICE

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

LOCKING EDGE RAILS

Notes:

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4¹/₂" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

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

The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb shall be welded as shown in the locking edge rail splice detail.

Cost of embedded plates, and anchorage studs included with Preformed Joint Strip Seal.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck 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.

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	77



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	West Approach					
Point	Тор	Bottom				
А	573.29	572.46				
В	573.51	572.68				
С	573.22	572.39				
D	573.18	572.35				
Е	573.24	572.41				
F	573.11	572.28				
G	573.19	572.36				
Н	573.36	572.53				
Ι	573.08	572.25				

LAB DETAILS I		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
000 0125	351	15-0008	3-00-BR		WILL	46	27
. 035–0135					CONTRACT	NO. 6	1F12
SHEETS			ILLINOIS	FED. AI	D PROJECT		



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Notes: Standard Specifications. For railing details, see sheet 21 of 21.

	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	WEST APPROACH SLAB DETAILS II STRUCTURE NO. 099–0135	F.A.P. RTE. 351	SECTION 15-00083-00-BR	COUNTY TOT SHE WILL 4		SHEET NO. 28 1F12
		SHEET NO. 9 OF 21 SHEETS		ILLINOIS FED.	AID PROJECT		
•		•		· ·			

<u>17/8</u>" typ.

The joint opening shall be adjusted for temperature per Article 520.04 of the

Curb concrete under railing shall be paid for as Concrete Superstructure. Approach slab shall be paid for as Concrete Superstructure (Approach Slab). Approach footing concrete shall be paid for as Concrete Structures. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf. Cost of excavation for approach footing included with Concrete Structures. For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 21.

WEST APPROACH BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a12(E)	92	#5	20'-1''	L
a13(E)	60	#8	35'-10"	
a14(E)	67	#5	7'-4''	·]
b10(E)	55	#5	29'-8''	
b11(E)	87	#9	29'-8''	
b12(E)	4	#5	28'-10"	
b13(E)	4	#5	14'-8''	
b14(E)	1	#4	14'-4''	
d10(E)	49	#5	6'-8''	
e10(E)	3	#5	28'-10"	
e11(E)	3	#5	14'-8''	
t10(E)	70	#4	10'-0''	
w11(E)	40	#5	36'-0"	
			• • • • •	
Concrete	Superstr	ructure	Cu Yd	1.8
Concrete Superstructure			Cu Yd	48.3
(Approach Slab)				10.0
Concrete Structures			Cu Yd	10.9
Reinforcement Bars, Epoxy Coated			Pound	21,300
Protectiv	e Coat		Sq Yd	120

BAR a12(E)

19'-5"

6'-6''

<u>BAR a14(E)</u>



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TOP AND BOTTOM ELEVATIONS FOR EAST APPROACH FOOTING

	East Approach					
Point	Тор	Bottom				
А	580.17	579.34				
В	580.42	579.59				
С	580.23	579.40				
D	580.24	579.41				
Е	580.50	579.67				
F	580.30	579.47				



- * Cost included with Concrete Superstructure (Approach Slab).
- ** Per manufacturer recommendations

Bar	No.	Size	Length	Shape
a10(E)	46	#5	30'-8"	
a11(E)	60	#8	30'-8"	
b10(E)	46	#5	29'-8''	
b11(E)	73	#9	29'-8''	
t10(E)	62	#4	10'-0''	
w10(E)	40	#5	30'-8''	
Concrete	Supersti	ructure	Cu Vd	<i>A</i> 17
(Approach Slab)		Curu	41.7	
Concrete Structures			Cu Yd	9.6
Reinforce	ement Bal	Pound	16 970	
Epoxy Coated			rounu	10,070
Protectiv	e Coat		Sq Yd	100

<u>EAST APPROACH</u> BILL OF MATERIAL

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications.

Approach slab shall be paid for as Concrete Superstructure (Approach Slab). Approach footing concrete shall be paid for as Concrete Structures. The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf. Cost of excavation for approach footing included with Concrete Structures. For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 21.

LAB DETAILS		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
000_0135	351	1 15-00083-00-BR			WILL	46	29
000-0100	-				CONTRAC	T NO. 6	1F12
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BEAM	REACTIONS	5 AT ABUTMENTS
		East & West
RD	(K)	35.7
R 4_	(K)	35.3
IMP.	(K)	9.4
R (Tot	al) (K)	80.4

	East Abut.	West Abut.
Beam 1		
Beam 2		
Beam 3		
Beam 4	1/4''	1/4''
Beam 5	3/ ''	3/ '' /8
Beam 6		

bearing plate. Weight included with Furnishing and Erecting Structural Steel.

Notes:

Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Min Jack Capacity = 62 Tons.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved 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 elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 207, Grade 50.

Two $\frac{1}{8}$ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

STATI	E OF	ILLINOIS
DEPARTMENT	OF 1	FRANSPORTATION

EXISTING BEARING REMOVAL DETAIL

Cost Included with Jack and Remove Existing Bearings

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I	Each	12
Anchor Bolts, $\frac{5}{8}$ "	Each	24
<i>Furnishing and Erecting</i> <i>Structural Steel</i>	Pound	169
Jack and Remove Existing Bearings	Each	12

T ABUTMENTS 099–0135		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
		15-00083-00-BR			WILL	46	30
					CONTRAC	CT NO. 6	1F12
L SHEETS			ILLINOIS	FED. AI	d project		

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BEAM	REACTIONS	AT SPANS 2 & 7
		Piers 2 & 6
RD	(K)	21.9
RЦ	(K)	35.3
IMP.	(K)	9.4
R (To	tal) (K)	66.6

	Pier 2	Pier 6
Beam 1	1/_''	1/2"
Beam 2		
Beam 3	1/_''	1/2"
Beam 4	$\frac{1}{4''} \& \frac{1}{2''}$	$\frac{1}{4}'' \& \frac{1}{2}''$
Beam 5	3/ "	3/8"
Beam 6	1/" 2	1/2"

SHIM TABLE

Match plan dimension of steel extension. Weight included with Furnishing and Erecting Structural Steel.

Notes:

New steel extensions, shim plates and connection bolts are included with Furnishing and Erecting Structural Steel. Prior to ordering any material, the Contractor shall verify in the field all bearing height and shim thickness dimensions. Adjustment must account for deck heave due to pack rust (if present).

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved 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 elastomeric bearing assembly shall be included in the cost of Elastomeric Bearing Assembly, Type I.

The structural steel plates of the Bearing Assembly shall conform to the requirements of AASHTO M 207, Grade 50.

Two $\frac{1}{8}$ in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Length of $\frac{3}{4}$ " bolts connecting to bottom beam flange varies by location. See sheets 17-19 of 21 for additional plates not shown here.

 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BEARING DETAILS I AT PII
DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. 099-
	SHEET NO. 12 OF 21 SHE

T PIERS 2 & 6	F.A.P. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
000_0135	351	15-00083-00-BR		WILL	46	31
099-0135				CONTRACT	NO. 6	1F12
1 SHEETS		ILLINOIS	FED. AI	D PROJECT		

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- 10-08-18

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STRUCTURE NO

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

AT PIERS 2 & 6 D. 099–0135	RTE. SECTION			COUNTY	SHEETS	NO.	
0 000_0135	351	15-00083	8-00-BR		WILL	46	32
7.035-0135					CONTRACT	NO. 6	1F12
21 SHEETS			ILLINOIS	FED. AI	d project		

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		ABUTMENT REMOVAL DETAILS	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	STATE OF ILLINUIS	STRUCTURE NO 000-0135	351	15-00083-00-BR	WILL	46	33
	DEPARTMENT OF TRANSPORTATION	31100101L 110.039-0135	·		CONTRAC	T NO. 6	1F12
	SHEET NO. 14 OF 21 SHEETS	ILLINOIS FED. AID PROJECT					

Notes: Hatched areas indicate Concrete Removal. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal. See sheets 15 and 16 of 21 for Concrete Removal quantities for abutments.

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STATE OF ILLINOIS	WEST ABUTN
DEPARTMENT OF TRANSPORTATION	STRUCTURE NO. (
	SHEET NO. 15 OF 21

Bar	No.	Size	Length	Shape
h(E)	6	#5	36'-9"	
u(E)	37	#4	5'-3''	
Concrete Removal			Cu. Yd.	10.4
Concrete Structures			Cu. Yd.	4.5
Reinforcement Bars,			Pound	260
Epoxy	Coated		FUUTU	500

MENT 099–0135		P. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
000 0135		15-00083-00-BR			WILL	46	34
099-0135					CONTRACT	NO. 6	1F12
SHEETS			ILLINOIS	FED. AI	D PROJECT		

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Bar	No.	Size	Length	Shape
h(E)	6	#5	36'-9"	
u(E)	37	#4	5'-3''	
Concrete Removal			Cu. Yd.	11.4
Concrete Structures			Cu. Yd.	4.6
Reinforcement Bars,			Pound	260
Epoxy Coated			rounu	500

VIENT		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
099–0135	351	15-0008	3-00-BR		WILL	46	35
					CONTRACT	NO. 6	1F12
SHEETS			ILLINOIS	FED. AI	D PROJECT		

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- Top of existing beam

TABL	LE	1		
SPANS	2	&	7	

Beam No.	A	В	# of Fill P_
1	3"	1'-4¾"	0
2	4 ¹ / ₂ "	1'-7¾"	3
3	5 ⁵ ⁄8″	1'-87/8"	3
4	5 ⁷ ⁄8″	1'-85/8"	2
5	5¼″	1'-8''	2
6	$4^{1/8''}$	1'-5%"	0

<u>SPANS 3 & 6</u>

Beam No.	A	В	# of Fill P_
1	3"	1'-4¾"	0
2	4 ¹ / ₂ "	1'-7¾"	3
3	5 ⁵ ⁄8″	1'-7 ⁷ ⁄8''	1
4	5 ⁷ ⁄8″	1'-85/8"	2
5	5¼″	1'-8''	2
6	$4^{1}/_{8}''$	1'-5%"	0

Note:

Dimensions "A" and "B" are after Jacking Existing Superstructure operations are complete.

BILL OF MATERIAL

Item	Unit	Total
<i>Temporary Support System, Location No. 1</i>	Each	1
<i>Temporary Support System, Location No. 2</i>	Each	1
Jacking Existing Superstructure	L Sum	1
Structural Steel Removal	L Sum	1
Furnishing and Erecting Structural Steel	Pound	19,827

All holes 1" \oslash for $\frac{7}{8}$ " bolts unless noted otherwise. Cost of drilling holes in existing steel members is included with Furnishing and Erecting Structural Steel.

See sheets 18 and 19 of 21 for Repairs "B" thru "F".

Prior to installation of new structural steel, all portions of existing beams within one foot of new steel elements shall be cleaned according to the contract requirements, painted with the Primer Coat as specified, and painted with the intermediate coat at the contractor's option. Cost included with Cleaning and Painting Steel Bridge No. 1.

Installation of new diaphragms shall not commence until all bolts for new web plates and clip angles are fully tightened, Jacking Existing Superstructure operations are completed, and all beams are in their final relative positions.

Removal of the existing expansion joints will not be paid for separately, but shall be included with cost of Structural Steel Removal.

Jacking Existing Superstructure shall consist of permanently adjusting the designated beam ends upward from their current positions, as shown in the Steel Repair Location Plan on this sheet. Three beams shall receive this adjustment, at the locations shown and by the amounts shown. Cost of these adjustments shall be included with Jacking Existing

STATE OF ILLINOIS	STRUCTURAL STEE STRUCTURE NO
DEPARTMENT OF TRANSPORTATION	SHEET NO. 17 OF 2

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. REPAIRS III	F.A.P. RTE	SECT	FION		COUNTY	TOTAL SHEETS	SHEET NO.
099_0135	351 15-00083-00		3-00-BR	WILL		46	38
. 033-0133					CONTRACT	NO. 6	1F12
1 SHEETS			ILLINOIS	FED. AI	D PROJECT		

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DATE

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STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-12.

ANCHOR STUD DETAIL

<u>bill of mater</u>	RIAL	
ITEM	UNIT	QUANTITY
Drainage Scupper, DS-12	Each	6

SCUPPER DETAILS		SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
STRUCTURE NO. 099–0135	351	1 15-00083-00-BR			WILL	46	39
					CONTRACT	NO. 6	1F12
SHEET NO. 20 OF 21 SHEETS			ILLINOIS	FED. AI	D PROJECT		

SHEET	NO. 21	OF 21

angle to accommodate the transition from bridge to approach slab at southwest corner. See West Approach Slab Details and Deck Repair I

expansion joint shall be provided with locknuts and shall be tightened

Т	D	A	В	С	Е
<i>≤</i> 4″	$2^{1/2''}$	1'-8''	2"	4''	$2^{1/2''}$
$> 4'' \le 6^{1/2''}$	3¾"	2'-0''	2 ¹ / ₂ "	5 ¹ /2"	3 ¹ /2"
$> 6^{1/2''} \le 9''$	5"	2'-4"	3 ¹ / ₂ "	6 ¹ /2"	9"
> <i>9</i> ″ ≤ <i>13</i> ″	7"	2'-10"	$4^{1/2}$ "	8 ¹ / ₂ "	1 1"
Rail Splice	1/,''	1'-8"	2"	4''	

T = Total movement at expansion joint as shown on the design plans.

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	1,254

YPE 2399	F.A.P. RTE.	A.P. SECTION		COUNTY	TOTAL SHEETS	SHEET NO	
000 0135		15-00083-00-BR			WILL	46	40
033-0133					CONTRACT	NO. 6	1F12
SHEETS			ILLINOIS	FED. AI	D PROJECT		

STEEL PLATE BEAM GUARD RAIL	EDGE OF SHOULDER OR BACK OF CURB & GUTTER 1:10 MAX_
7/7	CROSS SLOPE
REGATE SHOULDERS 10 (250)	EDGE OF AGGREGATE SHOULDER OR HMA SHOULDER STABILIZATION UNLESS OTHEF EDGE O OR HMA SI BASED O
E NOTE 1)	DEPRESSED CUF WITH DEPRESSED CUF WITH DEPRESSED CUF WITH
SHOULDER, 6 (150) FFIC BARRIER TERMINAL.	AGGREGATE SHOUL ACCORDING TO SE
NG TERMINAL SECTION Uardrail system.	HMA SHOULDERS 6 PAID ACCORDING
AL SECTION. /INAL. THE TERMINAL THE HEIGHT OF THE	COMB. CONC. C&G AND TRAFFIC BAR SPECIFIED WILL E
M	
<u>GUTTER</u> 45 MPH (70 kmh)]	
R. BOR0 12-08-2008 R. BOR0 09-14-2009 STATE P. BOR0 08-06-2012 DEDADTAGENT	OF ILLINOIS DE TRANSPORTATION DE TRANSPORTATION

G, STEEL PLATE BEAM GUARD RAIL RRIER TERMINAL, OF THE TYPE BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL

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

URB & (GUTTER AND	RTE. SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
AT TBT TY.1 SPL.		351	15-00083-00-BR	WILL	46	41
		BD600–10 (BD 34) CONTRACT NO. ^{61F12}				
S STA.	TO STA.	ILLINOIS FED. AID PROJECT				

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		* COLLECTOR * COLLECTOR SPEED LIMIT> 40 MPH (60 km/h)	* TYPE WITH LIGHTS	III BARRICADES TWO FLASHING AME S ON EACH. (SEE N 200'± (WORK AREA']	AD RUCTION IEAD BER IOTE 2) 60 m±) IVEWAY
NOTES 1. SIDE RC SHOWN a) 0 M b) T B T 2. SIDE RC AS SHO a) 0 F C AS SHO a) 0 F B 0 3. CONES I SPACINC IN HEIG 4. WHEN T SIGNING BE USEI	AD WITH A SPEED ON THE DRAWING A NE "ROAD CONSTRU OUNTED ON IT APP HE CLOSED PORTION LOCKING WITH TYPE HE CROSS SECTION OAD WITH A SPEED WN ON THE DRAWIN NE "ROAD CONSTRU LASHER MOUNTED O F THE MAIN ROUTE, HE CLOSED PORTION LOCKING WITH TYPE F THE CLOSED PORTION LOCKING DAY OPEF HT.	LIMIT OF 40 MP ND AS DIRECTED CTION AHEAD" SI ROXIMATELY 200 N OF THE MAIN F I, TYPE II OR OF THE CLOSED LIMIT GREATER G AND AS DIRECT CTION AHEAD" SI N IT APPROXIMA N OF THE MAIN F III BARRICADES TION. ED FOR BARRICADES TION. ED FOR BARRICADES S BETWEEN THE B ONE, A SINGLE HE DOUBLE HEADED	H (60 km/h) (BY THE ENGIN GN 36 × 36 ((60 m) IN AL ROUTE SHALL F TYPE III BARF PORTION. THAN 40 MPH FED BY THE EN GN 48 × 48 (FELY 500' (150 ROUTE SHALL F , 1/2 OF THE DES OR DRUMS SHALL BE A M EGINNING OF EADED ARROW ARROW (M6-4).	OR LESS AS NEER: 900×900) WITH A DVANCE OF THE MA BE PROTECTED BY RICADES, 1/3 OF (60 km/h) NGINEER: 1.2 m × 1.2 m) WI O m) IN ADVANCE BE PROTECTED BY CROSS SECTION AT HALF THE INIMUM OF 28 (710 THE MAINLINE (M6-1) SHALL	FLASHER AIN ROUTE.
STATE OF ILLINOIS DEPARTMENT OF TRANSPORT	ATION	SCALE: NONE	TRAFFIC CO SIDE ROADS, SHEET 1	ONTROL AND PROINTERSECTIONS, AOF 1SHEETSST	TECTION F ND DRIVE

- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

PROTECTION FOR		F.A.P. Rte.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
IS, AND DRIVEWAYS		351	15-00083-00-BR	WILL	46	42	
			TC-10	CONTRACT	NO_ 61F	12	
S	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

TWO-4 (100) YELLOW @ 11 (280) C-C-		
NO DIAGONALS 4' (1.2 m) OUTSIDE TO OUTSIDE OF LINES		
TWO-4 (100) YELLOW @ 11 (280) C-C	N	
4' (1.2 m) WIDE MEDIANS ONLY 8 (200) W	8 (200) WHITE	00) WHITE
VARIES 11 (280) C-C 0) @ 11 (280) C-C MEDIAN LENGTH VARIES R= @ 10	12 (300) WHITE DIAGONALS D' (3 m) OR LESS SPACING ISLAND OFFSET FROM PAVEMENT EDGE	8 (20
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES. AGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))	8 (200) WHITE	2 (50) 1
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (MORE THAN 45MPH (70 km/h))	RAISED ISLAND	ł
MEDIANS OVER 4' (1.2 m) WIDE	ISLAND AT PAVEMENT EDGE	2 (50)
4 (100) YELLOW 4 (100) YELLOW LINES (51/2 (140) C-C)	TYPICAL ISLAND MARKIN	2 I <u>G</u>
	TYPE OF MARKING	WIDTH OF
TWO-4 (100) YELLOW @ 11 (280) C-C 4 (100) YELLOW LINES (51/2 (140) C-C)	CENTERLINE ON 2 LANE PAVEMENT	4 (100)
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.	CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)
	FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 e 4 (100)
8' (2.4 m) WAY LEFT TURN LANE	DOTTED LINES (EXTENSIONS OF CENTER, LANE OR	4 (100) 5 (125) ON FREE SAME AS LINE E EXTENDED
TYPICAL PAINTED MEDIAN MARKING	TURN LANE MARKINGS) EDGE LINES	4 (100)
	TURN LANE MARKINGS	6 (150) LINE; FL SIZE LETTERS & SYMBOLS (8' (2.4
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT /
50' (15 m) TO 200' (60 m) + 10' (3 m) = 10' (3 m) = 6 (150) WHITE	CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°
	STOP LINES	24 (600)
10' (3 m)	PAINTED MEDIANS	2 @ 4 (100) WIT 12 (300) DIAGON @ 45° NO DIAGONALS L 4' (1.2 m) WIDE
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SO. FT. (1.5 m ²) $ONLY$ AREA = 20.8 SO. FT. (1.9 m ²)	GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 DIAGONALS @ 45
← TURN LANES IN EXCESS OF 400′ (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".	RAILROAD CROSSING	24 (600) TRANSV LINES; "RR" IS LETTERS; 16 (40 LINE FOR "X"
TYPICAL LEFT (OR RIGHT) TURN LANE	SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS $\geq 8'$)	12 (300) e 45°
TYPICAL TURN LANE MARKING	U TURN ARROW	SEE DETAIL
	2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL
	FOR FURTHER DETAILS ON PAVEMENT MAR STANDARD SPECIFICATIONS FOR ROAD AND CONSTRUCTION AND STATE STANDARD 780	RKING REFER TO D BRIDGE DOO1.
JUCIUS 09-09-09		DISTRICT 0

JUCIUS	09-09-09
JUCIUS	07-01-13
JUCIUS	12-21-15
JUCIUS	04-12-16

STATE OF ILLINOIS DISTRICT DEPARTMENT OF TRANSPORTATION SCALE: NONE SHEET 1 OF 1 SHEET 1

→|₁₂|<u>→</u> (300)

U-TURN

LANE REDUCTION TRANSITION

lane reduction arrows required at speeds of 45 mph or greater or when specified in plans.

LINE	PATTERN	COLOR	SPACING /REMARKS
	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
	SOLID	YELLOW	11 (280) C-C
	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
EWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
BEING	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
ULL & "4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
N	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH: 51/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEET TURN
ARROW		WHITE	MARKING DETAIL
	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
TH NALS USED FOR MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
2 (300) 5°	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))
VERSE 6′(1.8 m) 00)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
	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 (OVER 45MPH (70 km/h))
	SOLID	WHITE	16.3 SF
	SOLID	WHITE	30.4 SF

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

DISTRICT ONE TVPICAL PAVEMENT MARKINGS		F.A. P. Rte	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		351	15-00083-00-BR	WILL	46	43
			TC-13 CONTRACT NO. 61F12			
T 1 OF 1 SHEETS STA.	TO STA.	ILLINOIS FED. AID PROJECT				

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OAD		F.A.P. Rte.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
J	SIGN		351	15-00083-00-BR	WILL	46	44
	SIGN			TC-22	CONTRACT	NO_ 61F	12
	STA.	TO STA.	FED. RC	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		

