

DESIGN DATA

LOCAL ROAD ADT = 75



TYPICAL SECTION PROPOSED

TYPICAL SECTION EXISTING

- OIL & CHIP SURFACE WITH BASE OF UNKNOWN THICKNESS

GENERAL NOTES

1. SEEDING: THIS WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 250 OF THE STANDARD SPECIFICATIONS AND SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR SEEDING CLASS 2 (SPECIAL).

- A. SPRING SEEDING SHALL EXTEND FROM JANUARY 1 TO JUNE 30 FALL SEEDING SHALL EXTEND FROM JULY 1 TO DECEMBER 31
- B. FERTILIZER NUTRIENTS SHALL BE APPLIED AT THE RATE OF 100 LB/ACRE C. MULCHING SHALL BE DONE IN ACCORDANCE WITH ARTICLE 251 OF THE
- STANDARD SPECIFICATIONS AND SHALL BE DONE BY METHOD 2, PROCEDURE 2 AT THE RATE OF 2 TONS PER ACRE.
- 2. NO PAYMENT FOR OVERHAUL WILL BE MADE ON THIS SECTION.



LT. & RT. STA. 9+25 TO 10+50

_		
-	ODE NO	
5	18631020	TRAFFIC BARRIER
	X2501000	
	¥2830495	
	X7010216	
	20100500	
	20200100	
	20300100	
	20400800	EURNISHED EXCA
	20700110	POPOUS CRANU
	28000305	TEMPORARY DITCI
	28000250	TEMPORARY FROM
	28000200	DEDIMETED EDOS
	28100807	STONE DUMPED
	28200200	
	40200800	
	50100100	REMOVAL OF FXI
	50105220	PIPE CULVERT R
	50300225	CONCRETE STRUC
	50300220	CONCRETE ENCAS
	50400405	PRECAST PRESTR
	50800105	REINFORCEMENT
А	50900205	STEEL BAILING T
السريز	51201800	FURNISHING STEE
	51202305	DRIVING PILES
	51203800	TEST DI F STEEL
	51500100	NAME DI ATES
	54200229	PIPE CITIVEPTE
	54261724	STEEL ELABED EN
Å	63100075	TRAFFIC RADDIED
4.3	67100100	MOBILIZATION
A	72501000	TERMINAL MARKE
قب		

A SPECIALTY ITEMS

ROUTE	SECTION	COUN	ITY	TOTAL SHEETS	SHEET NO.
T.R. 383	11-04130-00-BR	WAYNE		18	2
CONTRACT NO.	95845	ILLINOIS			

SUMMARY OF QUANTITIES						
IIEM	UNII	QUANTITY				
ER TERMINAL, TYPE 1	EACH	2				
S 2 (SPECIAL)	ACRE	0.90				
TCH (SPECIAL)	TON	50				
ROL AND PROTECTION, (SPECIAL)	L SUM	1				
, ACRES	ACRE	1.5				
TION	CU YD	410				
WATION	CU YD	360				
CAVATION	CU YD	3390				
ULAR EMBANKMENT	TON	210				
TCH CHECKS	FOOT	63				
ROSION CONTROL SEEDING	POUND	150				
DSION BARRIER	FOOT	420				
D RIPRAP, CLASS A4	TON	525				
	SQ YD	312				
RFACE COURSE, TYPE B	TON	600				
XISTING STRUCTURES	EACH	1				
REMOVAL	FOOT	38				
UCTURES	CU YD	60.2				
CASEMENT	CU YD	38.8				
TRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	3064				
T BARS	POUND	7620				
TYPE S1	FOOT	260				
TEEL PILES HP 14 X 73	FOOT	1217				
	FOOT	1217				
EL HP 14 X 73	EACH	1				
	EACH	1				
S, CLASS D, TYPE 1 24"	FOOT	74				
END SECTIONS 24"	EACH	2				
ER TERMINAL, TYPE 5A	EACH	2				
	L. SUM	1				
KER DIRECT APPLIED	EACH	4				

	SECTION 11-041	30–00–BR BEGINS STA	. 2+00.00	
S(1"	CALES: = 50' HOR	<u>EXIST</u> <u>R.O.W.</u>		
1"	= 5' VER	+ + - + - + - + - + - +	00	
		EXIST. R.U.W.		
	<u>P.O.T. STA. 2+00.00</u>			
	N: 636,817.11 E: 934,620.38			
	COORDINATES BASED ON NAD83 ILLINOIS EAST STATE PLANE COORDINATE SYSTEM			<u>+00</u> _/
	PI STA 4+09.73		TEMP.	DITCH CHECKS (TY
	N: 636,731.07 E: 934,820.43	CITATION OIL AND G CLAY CITY, ILLINOIS	AS CORP. 62824	Т
	COORDINATES BASED ON NAD83 ILLINOIS EAST STATE PLANE COORDINATE SYSTEM	PH. 618-676-1044	-	
	COORDINATE STOLEM			
130				ACCRECATE
430	CHANNEL EXCAVATION EARTH EXCAVATION	<u> </u>		LT. & RT. STA.
425	FURNISHED EXCAVATION			
	WILL BE SUITABLE FOR USE IN MATERIAL SHALL BE DISPOSED	THE EMBANKMENT. UNSUITABLE OF BY THE CONTRACTOR.		←
420	AGGREGATE SURFAC	<u>ce course, type b</u>	TON	
	STA. 2+00 TO 10+50		600	+50.00
415	SEEDING, CLASS 2		ACRE	
	STA. 2+00 TO TO+50		0.90	PC ST. VPC
410				
				-0.13%
405	TRAFFIC BARRIER T	ERMINAL, TYPE 1	<u>EACH</u>	
	LT. STA. 7+36 TO 7+61		TOTAL 2 EACH	
400				TEN RT.
				LT. RT. LT.
395	RT. STA. 6+04 TO 6+17 LT. STA. 7+23 TO 7+36	<u>erminal, IYPe 5A</u>	<u>EACH</u> 1 1	RT. LT. LT.
300			TOTAL 2 EACH	RT.
530				
385		109.3 -09.2	-08.5 -08.1	107.80 107.80
	II	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	-00





Existing Structure: Structure No. 096-3148. Single span pony truss bridge. 42' Bk. - Bk. Abutments. Closed concrete abutments. 14' W. concrete deck.

BILL OF MATERIALS (BRIDGE ONLY)

ITEM	UNIT	TOTAL
Porous Granular Embankment	Ton	130
Stone Dumped Riprap, Class A4	Ton	525
Filter Fabric	Sq Yd	312
Removal of Existing Structures	Each	1
Concrete Structures	Cu Yd	60.2
Concrete Encasement	Cu Yd	38.8
PPCDB (21" Depth)	Sq Ft	3064
Reinforcement Bars	Pound	7620
Steel Railing, Type S1	Foot	260
Furnishing Steel Piles HP14x73	Foot	1217
Driving Piles	Foot	1217
Test Pile Steel HP14x73	Each	1
Name Plates	Each	1
Terminal Marker - Direct Applied	Each	4

GENERAL NOTES

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

See Section 502 of the Standard Specifications for Structural Excavation.

Channel excavation shall be excavated as shown within the limits of the proposed bridge, then tapered to the existing channel at the R.O.W. line. See Roadway Plan and Profile sheet (Sheet 3) for Channel Excavation quantity.

The cost of the bedding material shall be included in the cost of the Stone Dumped Riprap, Class A4 (per the Standard Specifications) and no additional compensation will be allowed. The estimated quantity for the bedding material is 110 tons (For information only).

See Special Provisions for Soil Borings.

Do not scale these drawings.

The bearing seat surfaces for the precast prestressed concrete deck beams shall be adjusted by shimming to assure firm and even bearing. As required, ¹8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing. The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current AASHTO Standard Specifications for Highway Bridges.



liam Suching D. Luekina 01/02/2019 Date of Signing

11/30/2020 Date of License Expiration

					KAAL.	IOB NO.	21918
	ROUTE	SEC	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
EVATION	TR 383	11-0413	0-00-BR		WAYNE	18	4
					CONTRACT I	NO. 958	345







VIEW C-C

BAR LIST
ONE BEAM ONLY
(Ear information only)

	(FOI I	ni or mati	ion only)	
Bar	No.	Size	Length	Shape
A(E)	11	#4	2'-7"	Ι
A1(E)	21	#4	2'-10"	ļ
B(E)	8	#5	20'-7"	I
B1(E)	9	#4	14'-2"	Ι
S(E)	49	#4	6'-5"	Г
S1(E)	8	#4	4'-11"	J
52(E)	41	#4	5'-2"	J
53(E)	14	#4	5'-2"	L
S4(E)	14	#4	4'-5"	L
U(E)	8	#5	4'-0"	Г
U1(E)	4	#4	8'-6"	Ĺ

Note:

See sheet 6 for additional details and Bill of Material.

SPAN 1 OR 3

				RAA	JOB NO.	51818
	ROUTE	SEC.	TION	COUNTY	TOTAL SHEETS	SHEET NO.
FTE DECK BEAM DETAILS	TR 383	11-04130)-00-BR	WAYNE	18	5
				CONTRACT I	NO. 9584	15



DATE

12/28/2018

REVISED

	ROUTE	SEC.	TION	COUNTY	TOTAL SHEETS	SHEET NO.	1
TE DECK BEAM DETAILS	TR 383	11 - 04130)-00-BR	WAYNE	18	6	1
				CONTRACT I	NO. 9584	15	
							1







VIEW C-C



В	AR LIS	<u>57</u>
ONE	BEAM	ONLY
15		• • • •

	(FOT	Informa	ation only)
Bar	No.	Size	Length	Shape
A(E)	11	#4	2'-7"	
A1(E)	21	#4	2'-10"	ļ
B(E)	8	#5	18'-2"	I
B1(E)	9	#4	13'-10"	Ι
S(E)	49	#4	6'-5"	Г
S1(E)	8	#4	4'-11"	J
52(E)	41	#4	5'-2"	J
53(E)	14	#4	5'-2"	L
S4(E)	14	#4	4'-3"	L
U(E)	8	#5	4'-0"	Г
U1(E)	4	#4	8'-6"	Π

Note:

See sheet 8 for additional details and Bill of Material.

SPAN 2

				RAA	JOB NO.	51818
	ROUTE	SEC	FION	COUNTY	TOTAL SHEETS	SHEET NO.
DECK BEAM DETAILS	TR 383	11-04130	-00-BR	WAYNE	18	7
				CONTRACT I	NO. 9584	45



	DESIGNED -	WDL	REVISED -		
CONSULTING ENGINEERS & LAND SURVEYORS	DRAWN -	JN	REVISED -	STATE OF ILLINOIS	
SALEM, ILLINOIS FREEBURG, ILLINOIS	CHECKED -	WDL / GLH	REVISED -	DEPARTMENT OF TRANSPORTATION	PRECASI PRESIRESSED CON
ILLINOIS DESIGN FIRM LICENSE NO. 184-000287	DATE -	12/31/2018	REVISED -		





Bar	No.	Size	Length	Shape	
h	14	#6	7 <i>'- 10"</i>		
h _l	14	#6	7′-0"	l	
h ₂	16	#6	7′-3"	<u>CUT IN</u> FIELD	
hз	6	#5	18'-0"		
р	12	#7	37′-8"		
S	38	#4	11'-3"		
SI	38	#4	3′-3"	ſ	
U	8	#6	8′-9"	Π	
V	76	#5	4'-0"		
V1	20	#5	5′-0″	<u>CUT IN</u> FIELD	
Concret	е	CU Yd	W Abut	16.5	
Structu	res	<i>cu 10</i>	E Abut	16.5	
Concret	е	CU YA	W Abut	2.8	
Encase	ment		E Abut	2.8	
Reinfor	cement	Pound	W Abut	2410	
Bars			E Abut	2410	
Furnish	ing Stee	E oot	W Abut	236	
Piles, H	IP14x73	1,001	E Abut	285	
Drivina	Piles	Foot	W Abut	ıt 236	
2 ming		1001	E Abut	285	
Test Pi	le,	Each	W Abut	1	
Steel H	P14x73		E Abut	0	
For de	tails of	niles ar	d Concret	<u>م</u>	

Encasement, see HP Pile Details Sheet.

				RAAL.	OB NO.	51818
	ROUTE	SECT	TON	COUNTY	TOTAL SHEETS	SHEET NO.
FTAILS	TR 383	11-0413	0-00-BR	WAYNE	18	10
				CONTRACT	NO. 958	345



PIER DETAIL



(Normal to ₢)



BAR ss





BILL OF MATERIAL FOR ONE PIER

Bar	No.	Size	Length	Shape
р	12	#7	37′-8"	
S2	36	#4	11′-5"	
Sz	38	#4	3′-9"	Ĺ
U1	8	#6	9′-3″	
Concret	e	CU YA	Pier 1	13.6
Structur	res	00 /0	Pier 2	13.6
Concret	e	CU YA	Pier 1	16.6
Encaser	nent	00 /0	Pier 2	16.6
Reinford	cement	Pound	Pier 1	1400
Bars			Pier 2	1400
Furnishi	ing Steel	Foot	Pier 1	354
Piles, H	P14x73	,,	Pier 2	342
Drivina	Piles	Foot	Pier 1	354
		1,001	Pier 2	342

For details of piles and Concrete Encasement, see HP Pile Details Sheet.

RAALIOR NO 51818

			10.041	00 110.	51010
	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IS	TR 383	11-04130-00-BR	WAYNE	18	11
			CONTRACT	NO. 958	345



RHUTASEL and ASSOCIATES, INC. CONSULTING ENGINEERS + LAND SURVEYORS SALEM. ILLINOIS ILLINOIS DESIGN FIRM LICENSE NO. 184-000287 STATE OF ILLINOIS DRAWN REVISED JN CHECKED - WDL / GLH **DEPARTMENT OF TRANSPORTATION** REVISED -DATE 12/31/2018 REVISED

HP PILE DET

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 ½ "	1"	7 / 8''	7 ∛ 4″	5 % ″	V 2"
x102	12 ½ "	7 / 8''	3 4″	7 ∛ 4″	5 / 8''	<u>1</u> Z"
x89	12 ½ "	¥4''	¹ 1 ₁₆ "	7 ∛ 4″	5/8''	<i>1</i> <u>/</u> 2"
x73	12 ½ "	5 / 8''	9 1 16''	7 ∛ 4″	5 / 8''	<u>1</u> Z"
HP 12x84	10"	7 / 8''	¹ 1 ₁₆ "	6 ½ ″	5/8''	V2"
x74	10"	7 / 8''	¹ 1 ₁₆ "	6 ½ ″	5/8''	V2"
x63	10"	5 / 8''	1 ⁄2''	6 ½ ″	¥2"	₹ % ″
x53	10"	5 / 8''	1 /2''	6 ½ ″	¥2"	3∕8″
HP 10x57	8"	¥4″	% 16"	51 / 4″	V 2"	3∕8″
x42	8"	5 % "	% 16"	5½″	V2"	3∕8″
HP 8x36	7"	5 % "	7/ 16"	4 1 ⁄4"	¹ /2"	3∕8"

				RAAI .	IOB NO.	51818
	ROUTE	SEC	FION	COUNTY	TOTAL SHEETS	SHEET NO.
All S	TR 383	11-0413	0-00-BR	WAYNE	18	12
,				CONTRACT	NO. 958	345

HOLCOMB FOUNDATIO P.O. Box 88 Carbondale, II. 62903	N E 618- 618-	N(-52 -45	GIN 29-5 57-8	E 526 399	RING INC. 32 31 fax	Page	1	of	
Bridge	e F	οι	ind	at	ion Boring Log				-
Project: <u>H-13096</u> Bridge Section: 11-04130-00-88 Statio	e <u>TR-</u>	<u>-38</u>	<u>3 ov</u>	er	Little Dry Fork	Date:	5/9	/201	2
Structure: 096-3148		<u> </u>	<u>v</u>		Bore	d by:	3. Sc	<u>bwart</u>	Z
County: <u>Wayne</u>					Checke	d By:⊥	Hol	<u>comb</u>	_
Boring No: 2	Do		sf		Surface Water Elev			sf	Ī
Offset:18' Lt	svat			8	Ground Water Elev. During Drilling401.	8 soli		i ti	
	ŭ	z	g	≯	Upon Completion <u>407</u> .	8 1	z	8	
<u>Ground Surface</u> 407.8 Brown Silty CLAY to Cigvey	0				clay (continued)		╧		t
SILT (A-6 to A-4)		1			,				
	_	5	1.1S	25			4	1.28	ţ
									t
									ł
	-5	2	0.58	21			- 5	1.3B	ľ
Brown Mottled Gray Silty							4		
CLAY (A-6) with sand		o	0.2B	30			<u>л</u> 6	1.4B	ŀ
									ł
			<u> </u>						
	-10	1	0.78	28		<u> </u>	1	Ì.	
							_		
		3	0.88	23			5 18	3.4B	2
with sand						<u> </u>	<u> </u>		ſ
		_							
	<u> 15 </u>	3	0.48	26					
							_		
		0	0.8B	28		 	0 17	2.9B	1
						<u>-4</u>	<u>4</u> .		
							-		
	-20	<u> </u>	0.8B	30		·			
					36	4.3			
		0	0.7B	24	Gray Sandy CLAY (A-6)				-
N = Standard Penetration Tes Blows per foot to drive 2" C Split Spoon Sampler 12" with a 140 lbs, bammer falling 30	t).D. "	Qu St w-	reng Wat	th er	nfined Compressive B = in tons/sq.ft. S = Content-percentage E = en dry weight-% P =	Bulge F Shear f Estimat	ailur ailur ed V	e e alue	-

·	P.O. Box 88 Carbondale, II. 62903	3	N ⊑ 618- 618-	-52 -45	29	526 399	FRING INC. 62 91 fax		Pag
ļ	E	Bridge	F	οι	Ind	a.	tion Boring	Log	
	Project: <u>H-13096</u> Section: <u>11-04130-00-BR</u> Structure: <u>096-3148</u> County: <u>Wayne</u>	Bridge Statior	<u>TR-</u>	<u>-38</u> 3+7	<u>3 ov</u>	<u>er</u>	Little Dry Fork	D Bored Checked	oate: by: By:
	Boring No: 2 Station: <u>6+98</u> Offset: <u>18'1t</u>		Elevation	Z	Qu tsf	% %	Surface Water Elev Ground Water Elev During Drilling Upon Completion	v / <u>401.8</u> 407.8	
	clay (continued)		45	53	4.05	21			
G	Gray SANDSTONE	356.8	-50	100 /4" 100 /2"	2.4S	17			
Ē	ind of Boring @ -56.5'	351.3		100 /2"		15			
	N = Standard Penetrat Blows per foot to driv Split Spoon Sampler 12 a 140 lbs barmer fol	ion Test (e 2" 0. 2" with	 D.	Qu Str w-	Un engt Wate	cor ch er	nfined Compressive in tons/sq.ft. Content-percentage	B = B S = S E = E:	ulge hea stin





Carbonadie, II. 62903 6	18–	45	7–8	99	1 fax	F	Page
Bridge	Fo	วน	nd	at	ion Boring l	_og	
Project: <u>H-13096</u> Bridge <u>Section: 11-04130-00-BR</u> Station Structure: <u>096-3148</u> County: Wayne	<u>TR-</u> 6	<u>38</u> ; +7	<u>3 ov</u> 0	<u>er</u>	Little Dry Fork	Da Bored t hecked F	te: <u>5</u> ру: <u>в</u> . Зv:т.
Boring No:	¢				Surface Water Elev	1	, <u> </u>
Station: 6+38 Offset: 21'Lt	Elevatio	N	Qu tsf	ж ж	Ground Water Elev During Drilling Upon Completion	402.2	Elevatio
Ground Surface 408.2	0				clay (continued)		
SILT (A-6 to A-4)	_						
		3	0.48	29			
-							-25
-							
	-5	4	1.05	22			
402.2	_						· · ···
to Clayey SILT (A-6 to A-4)		0	0.6B	27			-77
with sand -							<u>– </u>
-							
-	-10	2	0.48	27			
-							_
-		0		27			
-							<u></u>
103 7 ⁻							
Brown Fine to Medium SAND	-15	5		26			
392.2							_
Gray Clayey SAND (A—2—4) with pebbles		0		26			
							<u>-4(</u>
-	-20	3	0.7B	32			
387.2	_						
Gray Silty CLAY (A=6) with sand		0	0.58	26			

Carbondale, II. 6290	3	618- 618-	-52 -45	29—5 57—6	526 399	2 11 fax	Page
	Bridge	e F	οι	ind	at	ion Boring Log	
Project: <u>H–13096</u> Section: <u>11–04130–00–BR</u> Structure <u>: 096–3148</u> County: <u>Wayne</u>	Bridge Statior	_ <u>_TR-</u> £	<u>-38</u> 5+7	<u>3 ov</u> 0	er	Little Dry Fork Bored Checked	Date: i by:_i i By:_ī
Boring No: <u>1</u> Station: <u>6+38</u> Offset: <u>21'. Lt</u>		Elevation	z	Qu tsf	w %	Surface Water Elev. Ground Water Elev. During Drilling <u>402.2</u> Upon Completion <u>407.2</u>	Elevation
clay (continued)		_45	13	2.78	20		
							<u>-7</u>
Gray Clayey SAND (A—2	<u> </u>	_					
		-50	27	4.6S	16		
							<u>7</u>
Gray SANDSTONE	354.7		100 /2"	-	<u>18</u>		
		<u>-55</u>					
			100 /2"		15		
							<u>–8</u>
	349.2		100 /3"	-	15		
		<u>–60</u>					
							_
							<u>–8</u>
		<u>~65</u>					
N = Standard Penetra	tion Test	<u>ł</u>	<u> </u>			for the Commentation of D	

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R.383	11-04130-00-BR	WAYNE	18	13
CONTRACT NO. 9	95845	ILLINOIS	·	·









4	405														405	4
																00
	400														400	
						D	esign el	=409.8	0					 		
							FILL ARE	A =93.2								
							CUT ARE	A =56.3								
	415					 							 	 	415	
3	410														110	3
50	410														410	+ 50
	405		 			D	ESIGN EL	=408.6	4						405	
							 FILL_ARF	A =29.3								
							CUT AR	A = 2.0								
-+						 							 	 		
	410													 	410	
3	405														105	3
	405					 D	ESIGN EL	=407.9	8					 	405	+
							FILL AR	A = 2.9								
	400						CUT AR	EA =8.0						 	400	
	415													415		
2	410													410	2	
50															50	
		-														ROU T.R. (
	405					 D	ESIGN EL	=407.8	0					 405		TE 383 RACT
							FILL ARI	A = 0.0								NO.
							CUT ARE	A =19.6								=
																-041.
																CTION
	415					 							 	 415		0-BR
	410													 410		
I																
				1	I						F `]				
2	105													105	2	
2 + 00	405						FILL ARI	A = 3.8						405	2 + 00	
2 + 00	405						FILL ARI CUT ARI	A =3.8 A =5.6						405	2 + 00	TOT 1E
2 + 00	405						FILL ARI CUT ARI	A =3.8 A =5.6						405	2 + 00	Y TOTAL SHEETS 18
2 + 00	405						FILL ARI CUT ARI	A =3.8 A =5.6						405	2 + 00	TOTAL 18



5																				5	
50	405		~																405	5	<u> </u>
	400																		400		
	/								DESIGN E	L =413.6	55									CONT	ROU
									CUT ARE	A =249. A =12.3	0 3									RACT NO.	;
																					2
	415																	415			SECTION
5												+							5)
	410																	410		ILLINOIS	COUN
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