GENERAL NOTES:

- 1. Reinforcement bars designated (E) shall be epoxy coated.
- 2. Layout of slope protection system may be varied to suit ground conditions in the field as directed by the engineer.
- 3. The embankment configuration shown shall be the minimum embankment that must be placed and compacted prior to the construction of the abutments.
- 4. Protective Coat shall not be applied to surfaces to which Waterproofing Membrane System is applied.
- 5. The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- 6. Backfill shall be placed behind the abutiment after the superstructure has been poured and falsework removed. See Article 502.10 of the Standard Specifications.

|--|

	N	. ABUT.	S. Al	BUT.
Q100		414.87	414.	64
Q500) .	414.87	414.	64

WATERWAY INFORMATION

Exist. Overtopping Elev. = 424.73 @ Sta. 1+56.95									
Drainage Area = 2.37 Sq. Mi. Prop. Overtopping Elev. = 425.59 @ Sta. 52+09.16									
Flood	Freq.	a	Opening	Sq. Ft.	Nat.	Head	- Ft.	Headwa	ater El.
11000	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
	10	1080	192.11	289,56	421.83	0.00	0.00	421.83	421.83
Design	30	1618	245.41	352.36	423.40	0.15	0.00	423.55	423.40
	50	1810	261.21	368.76	423.81	0.25	0.00	424.06	423.8.
Base	100	2140	272.39	391.56	424.38	0.46	0.00	424.84	424.38
Overtop Exist.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Overtop Prop.	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Max. Calc.	500	3000	272.39	405.85	425.30	1.24	0.00	426.54	425.30
10 Yr. Valaaity through Exist. Pridgo - 5.82 ft/s									

10 Yr. Velocity through Exist. Bridge = 5.82 ft/s 10 Yr. Velocity through Prop. Bridge = 3.82 ft/s



SECTION THRU ABUTMENT

Stone Riprap, Class A4

SECTION A-A

4'-0"

Reddina-

Filter fabric_



CRAFORD, MURPHY & TLLY, INC. CONSULTING ENGINEERS LICENSE No. 184-000613	USER NAME =	DESIGNED - BPD	REVISED -		GENERAL DATA	F.A. SE	ECTION	COUNTY	TOTAL	SHEET
	PLOT SCALE = PLOT DATE =	CHECKED - WLB	REVISED -	ISED - STATE OF ILLINOIS STOLUTION		163 34B-2	34B-2	JOHNSON	37	14
		DRAWN - GLD REVISED - DEPARTMENT OF TRANSPORTATION	SINUCIUNE NO. 044-0002	i		CONTRACT NO. 78267				
		CHECKED - DECEMBER 2013	REVISED -		SHEET NO. 2 OF 12 SHEETS	ILLINOIS FED. AID PROJECT				

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		-		
ITEM	UNIT	SUPER	SUB	TOTAL
Stope Ripran Class A4	Sa Yd		365	365
	59.70.		505	505
Filler Fabric	Ca Vd		ZCE	ZCE
Filler Fabric	Sq. 1a.		365	365
	_			
Hot-Mix Asphast Surface Course, Mix "C", N50	lon	12		12
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		185	185
Shabiaro Expananon	00. 70.		100	100
Conorata Structuras	Cu Vd		60.0	60.0
	<i>cu. ru.</i>		60.2	60.2
Concrete Superstructure	Cu. Yd.	7.0		7.0
Concrete Encasement	Cu. Yd.		4.2	4.2
Precast Prestressed Concrete Deck Reams (17" Denth)	Sa Et	777		777
	04. / //			
Deieferennet Dere Freue Conted	Deved	100	2200	2000
Reinforcement Bars, Epoxy Coarea	Pouna	190	8800	8990
Steel Railing, Type T1	Foot	96		96
Furnishing Steel Piles, HP 12x63	Foot		277	277
Driving Piles	Foot		277	277
511111g 1 1100	1 001		<u> </u>	
Tact Pila Stool UP 12x63	Each		1	1
	LUCH		1	1
Name Plates	Each	1		1
Waterproofing Membrane System	Sq. Yd.	77		77
Geocomposite Wall Drain	Sa. Yd.		51.5	51.5
<i>_</i>				
Grapular Backfill for Structures	Cu Yd		136	136
	00. 10.		150	1.50
	F 1		70	70
Pipe Underdrains for Structures 4"	r oot		10	10
Portland Cement Mortar Fairing Course	Foot		216	216

TOTAL BILL OF MATERIAL