### INDEX OF SHEETS

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#### GENERAL NOTES

- 1. All work shall be done in accordance with the Illinois Department of Transportation (IDOT) Standard Specifications For Road and Bridge Construction; Adopted January 1, 2007 and latest Supplemental Specifications and recurring Special Provisions, unless noted otherwise.
- 2. All structural steel shall be AASHTO M 270 Grade 50W.
- 3. No field welding is permitted except as specified in the contract documents.
- 4. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
- 5. Reinforcement bars designated (E) shall be epoxy coated.
- 6. The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.
- 7. The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at substructures specified or approved by the Engineer before ordering the remainder of piles.

#### PREFABRICATED PEDESTRIAN BRIDGE

- 8. The Prefabricated Pedestrian Bridge shall be designed, fabricated, delivered, and erected according to the Special Provisions of "Pedestrian Truss Superstructure" and design plans.
- 9. The style of the bridge shall be Pratt Truss or Approved Equal.
- 10. All steel shall be unpainted weathering steel conforming to the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel."
- 11. Field welding of construction accessories will not be permitted to the Truss Superstructure.
- 12. Steel fabrication inspection services shall be performed by the Bureau of Bridges and Structures, Illinois Department of Transportation.
- 13. Contractor shall coordinate with Pre-Engineered Bridge Manufacturer for Concrete and Reinforcement Requirements for Reinforced Concrete Bridge Deck. Cost of Concrete Bridge Deck included with the pay item "Pedestrian Truss Superstructure".
- 14. Protective coat shall be applied over top surface of Concrete Bridge Deck. Cost shall be paid for separately with the item "Protective Coat".
- 15. Road closure times for setting the pedestrian bridge over Rakow Road shall be as directed by the Engineer and may require night time closure and work. No additional compansation shall be paid for night time road closures and/or work for setting the Pedestrian Bridge.

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MCI	HENR	ү сог	INTY
	LOAD	ING F	110
STRUCT	URE I	NO. 0:	56-992

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See	Std.	5150	201







CROSS SECTION (Looking upstation

Non Composite Galvanized Steel Deck Form (See Special Provisions)

- 1							DAMONY DOAD FROM ACKNAM DOAD TO HUMOIS DOUTE 21		TOTAL SHEET
Ē		USER NAME = Rdwy_Lisle	DESIGNED – A. Yargicoglu	REVISED -	SION		RAKOW ROAD FROM ACKMAN ROAD TO ILLINOIS ROUTE 31	RTE. SECTION	COUNTY SHEETS NO.
	PATRICK	PLOT CONFIG= PDF(Grey_Large).plt	DRAWN - A. Yargicoglu	REVISED -		MCHENRY COUNTY	PEDESTRIAN BRIDGE OVER RAKOW ROAD	0336 05-00308-00-WR	MCHENRY 606 404
	ENGINEERING INC.	'PLOT SCALE = 1:1.33333	CHECKED - A. Durbak	REVISED -		DIVISION OF TRANSPORTATION	STA 173 + 34.68 STRUCTURE NO. 056-9921		CONTRACT NO.
	LISLE, ILLINOIS	PLOT DATE = 7/28/2010	DATE - 8/2/2010	REVISED -	PUSPONIN		SCALE: NONE SHEET NO. STR 2 OF 22 STA. TO STA. FE	ED. ROAD DIST. NO. ILLINOIS FED. A	AID PROJECT

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TOTAL DILL OF		12/14-		
ITEM	UNIT	SUPER	SUB	TOTAL
1. Start				
s Granular Embankment, Special	Cu. Yd		60	60
ure Excavation	Cu. Yd		160	160
ete Structures	Cu. Yd		95.8	95.8
Liner Textured Surface	Sq. Ft		582	582
tive Coat	Sq. Yd	387	27	414
rcement Bars, Epoxy Coated	Pound		11,020	11,020
e Railing, Special	Foot		43	43
hing Steel Piles HP10X42	Foot		160	160
7 Piles	Foot		160	160
Pile Steel HP10X42	Each		2	2
Plates	Each		1	1
ete Sealer	Sq. Ft		195	195
mposite Wall Drain	Sq. Yd		41	41
Inderdrains for Structures 4"	Foot		76	76
trian Truss Superstructure	Sq. Ft	3,480		3,480

## TOTAL RILL OF MATERIAL

Porous

Strùcti

Concre orm

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Reinfo Bicycle

urnis

Drivind

rest F

Vame

Concre Geocor

Pipe L

Pedest

Note:

# BRIDGE REACTION TABLE

(75'-0" SPAN)				
ITEM	VERTICAL (LBS)	LATERAL (LBS)	LONGITUDINAL (LBS)	
DEAD LOAD	27,050			
UNIFORM LIVE LOAD	19,130			
SERVICE VEHICLE LOAD	11,170			
UPLIFT WIND 20 PSF WINDWARD/LEEWARD	-6,660/ -2,340			
WIND	±2,392	3,990	3,700	
THERMAL			1,630	

Bridge Lifting Weight = 21,000 lbs. (larger of 2 pieces) Total Bridge Weight = 40,700 lbs (without Concrete Deck)

## BRIDGE REACTION TABLE

(140'-0" SPAN)				
ITEM	VERTICAL (LBS)	LATERAL (LBS)	LONGITUDINAL (LBS)	
DEAD LOAD	58,700	98 W -		
UNIFORM LIVE LOAD	35,700			
SERVICE VEHICLE LOAD	11,370	·		
UPLIFT WIND 20 PSF WINDWARD/LEEWARD	-12,440/ -4,370			
WIND	±4,465	7,450	6,400	
THERMAL			3,530	

Bridge Lifting Weight = 36,400 lbs. (largest of 3 pieces) Total Bridge Weight = 108,800 lbs (without Concrete Deck)

Bridge Reactions are the envelope of Service Loads at each bearing assembly. All footings have been designed based on these reactions.

### GENERAL NOTES AND TOTAL BILL OF MATERIAL