

WATER INFORMATION TABLE

Route:	Higgins Road (IL-72)		S.N.	Unknown		Computed:	LJS		Date:	4/19/2011	
Section:	Sta 364+75		S.N.	Unknown		Checked:			Date:		
County:	Cook		Waterway:	Salt Creek West Branch Tributary A							
Drainage Area	0.80	Sq. Mi.	Existing Low Grade Elevation =	N/A		Proposed Low Grade Elevation =	789.50 ft Sta 365+02				
			Waterway Opening (sq. ft.)*			Created Head (ft.)		Headwater Elevation			
Flood	Frequency Year	Discharge (cfs)	Existing	Proposed	Natural H.W.E.	Existing	Proposed	Existing	Proposed		
Design	10	118	N/A	70.9	785.25	0.00	0.00	785.25	785.25		
Base	50	201	N/A	182.3	787.42	0.00	0.00	787.42	787.42		
Overtopping	100	250	N/A	364.2	770.39	0.00	0.01	770.39	770.40		
Max.	>100										
	500										
10 Year Velocity through Existing Structure =				N/A		10 Year Velocity through Proposed Structure =				1.50 fps	
		*Based on Natural HW E									
DATUM:		All elevations on NGVD29 Datum									
ALL-TIME H.W.E. & DATE:		770.0 ft. (USGS HA-87, October 1954)									
						Elevations computed from CBBEL HEC-RAS 04/11.					
SCOPE OF WORK:		Proposed bike path bridge.									
			EXISTING STRUCTURE						PROPOSED STRUCTURE		
			Type:	N/A		Type:	Freespan Pedestrian Bridge				
			Length:	N/A		Length:	12'11"				
			Span:	N/A		Span:	55'				
			Height:	N/A		Height:	6.3'				
			Skew:	N/A		Skew:	43o				
			US Invert:	N/A		US Invert:	761.50				
			DS Invert:	N/A		DS Invert:	761.50				

THIS SHEET SIZE IS 22"x34" ANYTHING SMALLER IS A REDUCTION

	ENGINEER:	LICENSED:	REVISIONS			PROJECT DESCRIPTION			HIGGINS BIKE PATH PROJECT		
			REV	DATE	DESCRIPTION	TIMBER PEDESTRIAN BRIDGE			HOFFMAN ESTATES, IL		
						DESIGNED LOADING			WATER INFORMATION TABLE		
						85-PSF OR 5 TON GVW (L/360 DEFLECTION)			DATE	DRAWN BY:	PROJECT NUMBER
					APPROVED BY:	DATE APPROVED:	4/6/11	D. MATTHEWS	209031	49 of 86	005