

City Design Group Inc. Drilled Pier Report											
Pier Identification		V-3 (DP1)				Date Drilled:		May 24, 2016			
Drilling Contractor		Drilling Services		Operator and Rig #		Rob Pate #300					
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology	
Diameter:		30"		Length		Variable 5' rock socket					
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		517.25		Length of Pier:		19			
Start Time:		10:41 AM		Finish Time:		11:43 AM		Delays:			
Concrete Placed Date and Time:		5/24/16 2:00 PM		Supplier:		Western		Tested:		yes	
Slump:		5.25		Air:		3.2		Temp:		82	
Ambient air temp:		81		Mix Design ID:		50fndsr3					
Design Strength @ 28 Days:		5000		Admixtures added on site:		none					
Reinforcing Steel Checked:		yes		Vertical Bar Details:		7 #8 12' 6"					
Horizontal Tie Details:		# 4 @ 6" oc 10' length						Compliant:		yes	
Clearance :		Top:		Bottom:		9'		Sides:		3.5"	
Anchor Bolts Checked:		n/a		Anchor Bolt Details:							
Strata Information:											
		Surface:		Description:		Brown lean clay					
		Depth:		Description:							
		Auger or core:		auger							
0-13						Brown lean clay					
		Depth:		Description:							
		Auger or core:		auger							
13						brown lean clay with lime stone cobbles					
		Depth:		Description:							
		Auger or core:		core							
13.0 - 19.0						lime stone					
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
Rock Socket Information:		Depth:				Type:					
CDG Technician:		David Sirois				Date:		May 24, 2016			

City Design Group Inc. Drilled Pier Report											
Pier Identification		V-4.6 (DP1)				Date Drilled:		May 24, 2016			
Drilling Contractor		Drilling Services		Operator and Rig #		Rob Pate #300					
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology	
Diameter:		30"		Length		Variable 5' rock socket					
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		517.25		Length of Pier:		19			
Start Time:		8:06 AM		Finish Time:		9:35 AM		Delays:			
Concrete Placed Date and Time:		5/24/16 1:25 PM		Supplier:		Western		Tested:		yes	
Slump:		5.25		Air:		3.2		Temp:		82	
Ambient air temp:		81		Mix Design ID:		50fndsr3					
Design Strength @ 28 Days:		5000		Admixtures added on site:		none					
Reinforcing Steel Checked:		yes		Vertical Bar Details:		7 #8 12' 6"					
Horizontal Tie Details:		# 4 @ 6" oc 10' length						Compliant:		yes	
Clearance :		Top:		Bottom:		9'		Sides:		3.5"	
Anchor Bolts Checked:		n/a		Anchor Bolt Details:							
Strata Information:											
		Surface:		Description:		Brown lean clay					
		Depth:		Description:							
		Auger or core:		auger							
0-12.5						Brown lean clay					
		Depth:		Description:							
		Auger or core:		auger							
12.75						brown lean clay with lime stone cobbles					
		Depth:		Description:							
		Auger or core:		core							
12.75 - 19.0						lime stone					
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
Rock Socket Information:		Depth:				Type:					
CDG Technician:		David Sirois				Date:		May 24, 2016			

City Design Group Inc. Drilled Pier Report												
Pier Identification		B.3-2 DP-5				Date Drilled:		6/9/2016 - 6/10/2016				
Drilling Contractor		Drilling services			Operator and Rig #			Rob Pate #300				
Job Name:		Webster Univ. ISB		Job #:		Client:		Geotechnology				
Diameter:		48"			Length		28'					
Design Information:		Top of Concrete Elevation:			536.25		Ground Elevation:		540.5			
		Bottom Elevation:			Variable		Length of Pier:		rock socket			
As Built Information:		Top of Concrete Elevation:			536.25		Ground Elevation:		540.5			
		Bottom Elevation:			512.5		Length of Pier:		28			
Start Time:		6/9/2016 1:10pm		Finish Time:		10:50 AM		Delays:				
Concrete Placed Date and Time:		6/10/16 1:00 AM				Supplier:		Metro		Tested: No		
Slump:		Air:		Temp:		Ambient air temp:		Mix Design ID:				
Design Strength @ 28 Days:						Admixtures added on site:						
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		R02-00						
Horizontal Tie Details:		R02-00								Compliant:		Yes
Clearance :		Top: Yes		Bottom: Yes		Sides: Yes				Compliant:		Yes
Anchor Bolts Checked:		N/A		Anchor Bolt Details:								
Strata Information:												
		Surface:		Description:								
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
Rock Socket Information:		Depth:		9'		Type:		Finely crystalline limestone				
CDG Technician:		Mark Arnold				Date:		June 10, 2016				

City Design Group Inc. Drilled Pier Report												
Pier Identification		A.1-2				Date Drilled:		June 17, 2016				
Drilling Contractor		Drilling services			Operator and Rig #			Rob Pate #300				
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology		
Diameter:		30"			Length			34.5				
Design Information:		Top of Concrete Elevation:			536.25		Ground Elevation:		540.5			
		Bottom Elevation:			Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:			536.25		Ground Elevation:		540.5			
		Bottom Elevation:			506		Length of Pier:		34.5			
Start Time:				Finish Time:				Delays:				
Concrete Placed Date and Time:		6/17/2016				Supplier:				Tested: Yes		
Slump:		6.0		Air:		1.6		Temp:		92		
								Ambient air temp:				
Design Strength @ 28 Days:						Admixtures added on site:		2.5 g HRWR				
Reinforcing Steel Checked:		Yes				Vertical Bar Details:		R02-00				
Horizontal Tie Details:		R02-00								Compliant:		Yes
Clearance :		Top:		Yes		Bottom:		Yes		Sides:		Yes
Anchor Bolts Checked:		N/A				Anchor Bolt Details:						
Strata Information:												
		Surface:		Description:								
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
Rock Socket Information:		Depth:				Type:						
CDG Technician:		Mark Arnold					Date:		June 17, 2016			

City Design Group Inc. Drilled Pier Report											
Pier Identification		A.2-1.6				Date Drilled:		June 13, 2016			
Drilling Contractor		Drilling services		Operator and Rig #		Rob Pate #300					
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology	
Diameter:		36"		Length		36.5					
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		504.5		Length of Pier:		36.5			
Start Time:				Finish Time:				Delays:			
Concrete Placed Date and Time:		N/A		Supplier:				Tested:		NO	
Slump:				Air:				Temp:			
Design Strength @ 28 Days:				Ambient air temp:				Mix Design ID:			
Reinforcing Steel Checked:		Yes		Admixtures added on site:							
Horizontal Tie Details:		Yes		Vertical Bar Details:		R02-00					
Clearance :		Top:		Yes		Bottom:		Yes		Sides:	
										Compliant:	
										Yes	
Anchor Bolts Checked:		N/A		Anchor Bolt Details:							
Strata Information:											
		Surface:		Description:							
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
Rock Socket Information:		Depth:		30"		Type:		Finely crystalline limestone			
CDG Technician:		Mark Arnold				Date:		June 13, 2016			

City Design Group Inc. Drilled Pier Report													
Pier Identification		A.2-1.9				Date Drilled:		June 16, 2016					
Drilling Contractor		Drilling services		Operator and Rig #		Rob Pate #300							
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology			
Diameter:		30"		Length		38'							
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5					
		Bottom Elevation:		Variable		Length of Pier:		5' rock socket					
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5					
		Bottom Elevation:		502.5		Length of Pier:		38'					
Start Time:				Finish Time:				Delays:					
Concrete Placed Date and Time:		6/16/16 9:50 AM		Supplier:		Metro		Tested:		Yes			
Slump:		5.8		Air:		1.8		Temp:		86			
Design Strength @ 28 Days:		5000		Admixtures added on site:		2.5g HRWR		Ambient air temp:		91-95			
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		R02-00							
Horizontal Tie Details:		R02-00								Compliant:		Yes	
Clearance :		Top:		Yes		Bottom:		Yes		Sides:		Yes	
Anchor Bolts Checked:		N/A		Anchor Bolt Details:									
Strata Information:													
		Surface:		Description:									
		Depth:		Description:									
		Auger or core:											
		Depth:		Description:									
		Auger or core:											
		Depth:		Description:									
		Auger or core:											
		Depth:		Description:									
		Auger or core:											
Rock Socket Information:		Depth:				Type:							
CDG Technician:		Mark Arnold				Date:		June 16, 2016					

City Design Group Inc. Drilled Pier Report													
Pier Identification		A.5 - 1.6				Date Drilled:		June 9, 2016					
Drilling Contractor		Drilling services		Operator and Rig #		Rob Pate #300							
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology			
Diameter:		36		Length		30'							
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5					
		Bottom Elevation:		Variable		Length of Pier:		6' rock socket					
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5					
		Bottom Elevation:		510.5		Length of Pier:		30'					
Start Time:		7:00 AM		Finish Time:		10:30 AM		Delays:					
Concrete Placed Date and Time:		6/9/16 11:00 AM				Supplier:		Metro		Tested: Yes			
Slump:		6.5		Air:		1.7		Temp:		86			
Design Strength @ 28 Days:		5000		Admixtures added on site:		1g Super P							
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		R02-00							
Horizontal Tie Details:		R02-00								Compliant:		Yes	
Clearance :		Top:		Yes		Bottom:		Yes		Sides:		Yes	
Anchor Bolts Checked:		N/A		Anchor Bolt Details:									
Strata Information:													
		Surface:		Description:									
		Depth:		Description:									
		Auger or core:											
		Depth:		Description:									
		Auger or core:											
		Depth:		Description:									
		Auger or core:											
		Depth:		Description:									
		Auger or core:											
Rock Socket Information:		Depth:		10"		Type:		Moderately crystalline limestone					
CDG Technician:		Mark Arnold				Date:		June 9, 2016					

City Design Group Inc. Drilled Pier Report												
Pier Identification		A.5-2				Date Drilled:		June 13, 2016				
Drilling Contractor		Drilling services			Operator and Rig #			Rob Pate #300				
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology		
Diameter:		46"			Length			36				
Design Information:		Top of Concrete Elevation:			536.25		Ground Elevation:		540.5			
		Bottom Elevation:			Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:			536.25		Ground Elevation:		540.5			
		Bottom Elevation:			504.5		Length of Pier:		36			
Start Time:		7:00 AM		Finish Time:				Delays:				
Concrete Placed Date and Time:				Supplier:				Metro		Tested: Yes		
Slump:		Air:		Temp:		Ambient air temp:		Mix Design ID:				
Design Strength @ 28 Days:				Admixtures added on site:				2g HRWR				
Reinforcing Steel Checked:				Yes		Vertical Bar Details:		R02-00				
Horizontal Tie Details:				R02-00						Compliant:		Yes
Clearance :		Top:		Yes	Bottom:		Yes	Sides:		Yes	Compliant:	Yes
Anchor Bolts Checked:		N/A		Anchor Bolt Details:								
Strata Information:												
		Surface:		Description:								
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
Rock Socket Information:		Depth:		65"		Type:		Finely crystalline limestone				
CDG Technician:		Mark Arnold				Date:		June 13, 2016				

City Design Group Inc. Drilled Pier Report												
Pier Identification		A-1.6				Date Drilled:		June 8, 2016				
Drilling Contractor		Drilling services		Operator and Rig #		Rob Pate #300						
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology		
Diameter:						Length		30				
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5				
		Bottom Elevation:		Variable		Length of Pier:		5' rock socket				
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5				
		Bottom Elevation:		510.5		Length of Pier:		30				
Start Time:		8:10 AM		Finish Time:		10:45 AM		Delays:				
Concrete Placed Date and Time:		6/8/16 2:10 PM				Supplier:		Metro		Tested: No		
Slump:		Air:		Temp:		Ambient air temp:		82		Mix Design ID: 50FNDSR		
Design Strength @ 28 Days:		5000		Admixtures added on site:		1g Super P						
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		S 004						
Horizontal Tie Details:		S 004								Compliant:		Yes
Clearance :		Top: Yes		Bottom: Yes		Sides: Yes				Compliant:		Yes
Anchor Bolts Checked:		N/A		Anchor Bolt Details:								
Strata Information:												
		Surface:		Description:								
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
Rock Socket Information:		Depth:		5.5'		Type:		Moderate to Finely crystalline limestone				
CDG Technician:		Mark Arnold				Date:		June 8, 2016				

City Design Group Inc. Drilled Pier Report											
Pier Identification		A-1.8				Date Drilled:		June 10, 2016			
Drilling Contractor		Drilling services		Operator and Rig #		Rob Pate #300					
Job Name:		Webster Univ. ISB		Job #:		Client:		Geotechnology			
Diameter:		30		Length		33					
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		507.5		Length of Pier:		33			
Start Time:		7:20 AM		Finish Time:		10:45 AM		Delays:			
Concrete Placed Date and Time:		6/10/16 11:40 AM				Supplier:		Metro		Tested: Yes	
Slump:		5		Air:		1.6		Temp:		89	
Design Strength @ 28 Days:		5000		Admixtures added on site:				87		Mix Design ID: 50FNDSR3	
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		R02-00					
Horizontal Tie Details:		R02-00								Compliant: Yes	
Clearance :		Top: Yes		Bottom: Yes		Sides: Yes				Compliant: Yes	
Anchor Bolts Checked:		N/A		Anchor Bolt Details:							
Strata Information:											
		Surface:		Description:							
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
Rock Socket Information:		Depth:		52"		Type:		Finely crystalline limestone			
CDG Technician:		Mark Arnold				Date:		June 10, 2016			

City Design Group Inc. Drilled Pier Report												
Pier Identification		A-2				Date Drilled:		June 9, 2016				
Drilling Contractor		Drilling services			Operator and Rig #							
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology		
Diameter:		30			Length			34				
Design Information:		Top of Concrete Elevation:			536.25		Ground Elevation:		540.5			
		Bottom Elevation:			Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:			536.25		Ground Elevation:		540.5			
		Bottom Elevation:					Length of Pier:					
Start Time:				Finish Time:				Delays:				
Concrete Placed Date and Time:		6/9/16 2:00 PM				Supplier:		Metro		Tested: No		
Slump:				Air:		Temp:		Ambient air temp:		89 Mix Design ID: 50FNDSR3		
Design Strength @ 28 Days:		5000		Admixtures added on site:								
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		R02-00						
Horizontal Tie Details:		R02-00								Compliant:		Yes
Clearance :		Top: Yes		Bottom: Yes		Sides: Yes				Compliant:		Yes
Anchor Bolts Checked:		N/A		Anchor Bolt Details:								
Strata Information:												
		Surface:		Description:								
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
Rock Socket Information:		Depth:		2'		Type:		Moderately crystalline limestone				
CDG Technician:		Mark Arnold					Date:		June 9, 2016			

City Design Group Inc. Drilled Pier Report											
Pier Identification		A-3 (DP1, PC1)				Date Drilled:		6/1/2016 - 6/2/2016			
Drilling Contractor		Drilling services		Operator and Rig #		Rob Pate #300					
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology	
Diameter:		30"		Length		27'					
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:				Length of Pier:		27'			
Start Time:		1:30 PM		Finish Time:		6/2/2016 1:50		Delays:			
Concrete Placed Date and Time:		6/2/2016 0:00		Supplier:		Metro		Tested:		Yes	
Slump:		5.3		Air:		2		Temp:		83	
Design Strength @ 28 Days:		5000		Admixtures added on site:		87		Mix Design ID:		50FNDRNA	
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		S 004					
Horizontal Tie Details:		S 004									
Clearance :		Top:		Bottom:		Sides:		Compliant:		Yes	
								Compliant:		Yes	
Anchor Bolts Checked:		N/A		Anchor Bolt Details:							
Strata Information:											
		Surface:		Description:							
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
Rock Socket Information:		Depth:		Type:		Finely crystalline limestone					
CDG Technician:		Mark Arnold				Date:		June 2, 2016			

City Design Group Inc. Drilled Pier Report											
Pier Identification		B.3-1.6				Date Drilled:		June 8, 2016			
Drilling Contractor		Drilling services		Operator and Rig #		Rob Pate #300		4400			
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology	
Diameter:		36		Length		31					
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		Variable		Length of Pier:		6' rock socket			
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		509.5		Length of Pier:		31'			
Start Time:		9:20 AM		Finish Time:		12:00 PM		Delays:			
Concrete Placed Date and Time:		6/8/16 12:50 PM		Supplier:		Metro		Tested:		No	
Slump:		Air:		Temp:		Ambient air temp:		Mix Design ID:		50FNDSR	
Design Strength @ 28 Days:		5000		Admixtures added on site:		1g Super P					
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		S 004					
Horizontal Tie Details:				S004				Compliant:		Yes	
Clearance :		Top: Yes		Bottom: Yes		Sides: Yes		Compliant:		Yes	
Anchor Bolts Checked:		N/A		Anchor Bolt Details:							
Strata Information:											
		Surface:		Description:							
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
Rock Socket Information:		Depth:		2'		Type:		Hard coal			
CDG Technician:		Mark Arnold				Date:		June 8, 2016			

City Design Group Inc. Drilled Pier Report											
Pier Identification		B-7				Date Drilled:		6/7/2016 - 6/8/2016			
Drilling Contractor		Drilling services		Operator and Rig #		Rob Pate #300					
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology	
Diameter:				Length		17.75					
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		522.8		Length of Pier:		17.75			
Start Time:		1:25 PM		Finish Time:		6/8/2016 7:10		Delays:			
Concrete Placed Date and Time:		6/8/16 8:30 AM		Supplier:		Metro		Tested:		Yes	
Slump:		5.5		Air:		1.7		Temp:		82	
								Ambient air temp:		74	
Design Strength @ 28 Days:		5000		Admixtures added on site:		1g Super P					
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		S004					
Horizontal Tie Details:		S004						Compliant:		Yes	
Clearance :		Top:		Yes		Bottom:		Yes		Sides:	
										Compliant:	
Anchor Bolts Checked:		N/A		Anchor Bolt Details:							
Strata Information:											
		Surface:		Description:							
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
Rock Socket Information:		Depth:		6.75		Type:		Moderate to finely crystalline limestone			
CDG Technician:		Mark Arnold				Date:		6/7/2016 - 6/8/2016			

City Design Group Inc. Drilled Pier Report											
Pier Identification		F.4 - 7.3				Date Drilled:		6/5/2016 - 6/6/2016			
Drilling Contractor		Drilling services		Operator and Rig #		Rob Pate #300					
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology	
Diameter:		30		Length		17'					
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		523.5		Length of Pier:		17'			
Start Time:		1:15 PM		Finish Time:		2:30		Delays:			
Concrete Placed Date and Time:		6/6/2016		Supplier:		Metro		Tested:		Yes	
Slump:		7"		Air:		1.7		Temp:		83	
								Ambient air temp:		73	
Design Strength @ 28 Days:		5000		Admixtures added on site:		1/2 Super P					
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		S 004					
Horizontal Tie Details:		S 004						Compliant:		Yes	
Clearance :		Top: Yes		Bottom: Yes		Sides: Yes				Compliant: Yes	
Anchor Bolts Checked:		N/A		Anchor Bolt Details:							
Strata Information:											
		Surface:		Description:							
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
Rock Socket Information:		Depth:		5'		Type:		Finely crystalline limestone			
CDG Technician:		Mark Arnold				Date:		June 6, 2016			

City Design Group Inc. Drilled Pier Report													
Pier Identification		F.5				Date Drilled:		6/7/2016 - 6/8/2016					
Drilling Contractor		Drilling services		Operator and Rig #		Rob Pate #300							
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology			
Diameter:		30		Length		19.4							
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5					
		Bottom Elevation:		Variable		Length of Pier:		5' rock socket					
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5					
		Bottom Elevation:		520.1		Length of Pier:		19.4					
Start Time:		1:30 PM		Finish Time:		6/8/2016 7:05		Delays:					
Concrete Placed Date and Time:		6/8/16 8:45 AM		Supplier:		Metro		Tested:		Yes			
Slump:		5.5		Air:		1.7		Temp:		82			
								Ambient air temp:		73			
Design Strength @ 28 Days:		5000		Admixtures added on site:		1g Super P							
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		S004							
Horizontal Tie Details:		S004								Compliant:		Yes	
Clearance :		Top:		Yes		Bottom:		Yes		Sides:		Yes	
Anchor Bolts Checked:		N/A		Anchor Bolt Details:									
Strata Information:													
		Surface:		Description:									
		Depth:		Description:									
		Auger or core:											
		Depth:		Description:									
		Auger or core:											
		Depth:		Description:									
		Auger or core:											
		Depth:		Description:									
		Auger or core:											
Rock Socket Information:		Depth:		7.9		Type:		Moderate to Finely crystalline limestone					
CDG Technician:		Mark Arnold				Date:		6/7/2016 - 6/8/2016					

City Design Group Inc. Drilled Pier Report												
Pier Identification		F.5-5				Date Drilled:		June 7, 2016				
Drilling Contractor		Drilling services			Operator and Rig #			Rob Pate #300				
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology		
Diameter:		36"			Length			18.9				
Design Information:		Top of Concrete Elevation:			536.25		Ground Elevation:		540.5			
		Bottom Elevation:			Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:			536.25		Ground Elevation:		540.5			
		Bottom Elevation:			521.6		Length of Pier:		18.9			
Start Time:		10:10 AM		Finish Time:		11:40		Delays:				
Concrete Placed Date and Time:		6/7/16 2:30 PM				Supplier:		Metro		Tested: N/A		
Slump:				Air:		Temp:		Ambient air temp:		79		
Design Strength @ 28 Days:		5000		Admixtures added on site:								
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		S004						
Horizontal Tie Details:		S004								Compliant:		Yes
Clearance :		Top: Yes		Bottom: Yes		Sides: Yes				Compliant:		Yes
Anchor Bolts Checked:		N/A		Anchor Bolt Details:								
Strata Information:												
		Surface:		Description:								
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
Rock Socket Information:		Depth:		7.9		Type:		Moderate to finely crystalline limestone				
CDG Technician:		Mark Arnold					Date:		June 7, 2016			

City Design Group Inc. Drilled Pier Report													
Pier Identification		F.5-6				Date Drilled:		June 7, 2016					
Drilling Contractor		Drilling services		Operator and Rig #		Rob Pate #300							
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology			
Diameter:		36		Length		21.9							
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5					
		Bottom Elevation:		Variable		Length of Pier:		5' rock socket					
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5					
		Bottom Elevation:		518.6		Length of Pier:		21.9					
Start Time:		7:00 AM		Finish Time:		8:25		Delays:					
Concrete Placed Date and Time:		6/7/16 11:00 AM				Supplier:		Metro		Tested: Yes			
Slump:		5.75		Air:		1.8		Temp:		83			
Design Strength @ 28 Days:		5000		Admixtures added on site:		76		Mix Design ID:		50FNDSR			
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		S004							
Horizontal Tie Details:		S004								Compliant:		Yes	
Clearance :		Top:		Yes		Bottom:		Yes		Sides:		Yes	
Anchor Bolts Checked:		N/A		Anchor Bolt Details:									
Strata Information:													
		Surface:		Description:									
		Depth:		Description:									
		Auger or core:											
		Depth:		Description:									
		Auger or core:											
		Depth:		Description:									
		Auger or core:											
		Depth:		Description:									
		Auger or core:											
Rock Socket Information:		Depth:		9.3		Type:		Moderate to finely crystalline limestone					
CDG Technician:		Mark Arnold				Date:		June 7, 2016					

City Design Group Inc. Drilled Pier Report											
Pier Identification		F-7				Date Drilled:		June 7, 2016			
Drilling Contractor		Drilling services		Operator and Rig #		Rob Pate #300					
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology	
Diameter:		30"		Length		15.9					
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		526.6		Length of Pier:		15.9			
Start Time:		11:00 AM		Finish Time:		12:40		Delays:			
Concrete Placed Date and Time:		6/7/16 2:15 PM		Supplier:		Metro		Tested:		N/A	
Slump:				Air:				Temp:			
						Ambient air temp:		79		Mix Design ID:	
Design Strength @ 28 Days:		5000		Admixtures added on site:							
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		S004					
Horizontal Tie Details:				S004				Compliant:		Yes	
Clearance :		Top: Yes		Bottom: Yes		Sides: Yes				Compliant: Yes	
Anchor Bolts Checked:		N/A		Anchor Bolt Details:							
Strata Information:											
		Surface:		Description:							
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
Rock Socket Information:		Depth:		5.75		Type:		Moderate to finely crystalline limestone			
CDG Technician:		Mark Arnold				Date:		June 7, 2016			

City Design Group Inc. Drilled Pier Report											
Pier Identification		F-8				Date Drilled:		June 6, 2016			
Drilling Contractor		Drilling services		Operator and Rig #		Rob Pate #300					
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology	
Diameter:		30"		Length		20'					
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		520.5		Length of Pier:		20'			
Start Time:		9:50 AM		Finish Time:		11:00		Delays:			
Concrete Placed Date and Time:		6/6/2016		Supplier:				Tested:		N/A	
Slump:				Air:				Ambient air temp:			
Design Strength @ 28 Days:				Admixtures added on site:							
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		S 004					
Horizontal Tie Details:				S 004				Compliant:		Yes	
Clearance :		Top: Yes		Bottom: Yes		Sides: Yes				Compliant: Yes	
Anchor Bolts Checked:		N/A		Anchor Bolt Details:							
Strata Information:											
		Surface:		Description:							
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
Rock Socket Information:		Depth:		8.4'		Type:		Finely crystalline limestone			
CDG Technician:		Mark Arnold				Date:		June 6, 2016			

City Design Group Inc. Drilled Pier Report											
Pier Identification		W-3 (DP1, PC1)				Date Drilled:		June 1, 2016			
Drilling Contractor		Drilling services		Operator and Rig #		Rob Pate #300					
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology	
Diameter:		30"/36"		Length		35.8					
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		502.7		Length of Pier:		35.8			
Start Time:		7:00 AM		Finish Time:		12:30		Delays:			
Concrete Placed Date and Time:		6/1/2016 1:57		Supplier:		Metro		Tested:		Yes	
Slump:		3.0		Air:		2.1		Temp:			
Design Strength @ 28 Days:		5000		Admixtures added on site:							
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		S 004					
Horizontal Tie Details:		S 004						Compliant:		Yes	
Clearance :		Top:		Bottom:		Sides:		Compliant:		Yes	
Anchor Bolts Checked:		N/A		Anchor Bolt Details:							
Strata Information:											
		Surface:		Description:							
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
Rock Socket Information: 5'		Depth:		35.8'		Type:		Bedrock			
CDG Technician:		Mark Arnold				Date:		June 1, 2016			

City Design Group Inc. Drilled Pier Report											
Pier Identification		W-4.5				Date Drilled:		6/2/2016 - 6/3/2016			
Drilling Contractor		Drilling services		Operator and Rig #		Rob Pate #300					
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology	
Diameter:		30'		Length							
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		508.9		Length of Pier:		31.6			
Start Time:		7:35 AM		Finish Time:		6/3/2016 10:45		Delays:			
Concrete Placed Date and Time:		6/2/2016 12:00		Supplier:		Metro		Tested:		Yes	
Slump:		6		Air:		2		Temp:		83	
						Ambient air temp		73			
Design Strength @ 28 Days:		5000		Admixtures added on site:		1g Super P					
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		S 004					
Horizontal Tie Details:		S 004						Compliant:		Yes	
Clearance :		Top:		Yes		Bottom:		Yes		Sides:	
										Compliant:	
Anchor Bolts Checked:		N/A		Anchor Bolt Details:							
Strata Information:											
		Surface:		Description:							
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
Rock Socket Information:		Depth:				Type:					
CDG Technician:		Mark Arnold				Date:		June 3, 2016			

City Design Group Inc. Drilled Pier Report											
Pier Identification		X-3				Date Drilled:		June 6, 2016			
Drilling Contractor		Drilling services			Operator and Rig #		Rob Pate #300				
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology	
Diameter:					Length		20'				
Design Information:		Top of Concrete Elevation:			536.25		Ground Elevation:		540.5		
		Bottom Elevation:			Variable		Length of Pier:		5' rock socket		
As Built Information:		Top of Concrete Elevation:			536.25		Ground Elevation:		540.5		
		Bottom Elevation:			520.5		Length of Pier:		20'		
Start Time:		7:45 AM		Finish Time:		10:15		Delays:			
Concrete Placed Date and Time:		6/6/2016				Supplier:		Metro		Tested: N/A	
Slump:				Air:		Temp:		Ambient air temp:		Mix Design ID:	
Design Strength @ 28 Days:						Admixtures added on site:					
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		S 004					
Horizontal Tie Details:		S 004									
Clearance :		Top: Yes		Bottom: Yes		Sides: Yes				Compliant: Yes	
Anchor Bolts Checked:		N/A		Anchor Bolt Details:							
Strata Information:											
		Surface:		Description:							
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
Rock Socket Information:		Depth:		6.2		Type:		Finely crystalline limestone			
CDG Technician:		Mark Arnold				Date:		June 6, 2016			

City Design Group Inc. Drilled Pier Report											
Pier Identification		X-4.5				Date Drilled:		June 7, 2016			
Drilling Contractor		Drilling services		Operator and Rig #		Rob Pate #300					
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology	
Diameter:		30		Length		21'					
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		519.5		Length of Pier:		21'			
Start Time:		7:10 AM		Finish Time:		8:55		Delays:			
Concrete Placed Date and Time:		6/7/16 2:40 PM		Supplier:		Metro		Tested:		N/A	
Slump:		5.5		Air:		1.7		Temp:		82	
Design Strength @ 28 Days:				Ambient air temp:		74		Mix Design ID:		50FNDSR	
Reinforcing Steel Checked:		Yes		Admixtures added on site:							
Horizontal Tie Details:		Yes		Vertical Bar Details:							
Clearance :		Top:		Bottom:		Sides:				Compliant:	
Anchor Bolts Checked:		N/A		Anchor Bolt Details:							
Strata Information:											
		Surface:		Description:							
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
Rock Socket Information:		Depth:		7'		Type:		Moderate to finely crystalline limestone			
CDG Technician:		Mark Arnold				Date:		June 7, 2016			

City Design Group Inc. Drilled Pier Report											
Pier Identification		Y-3				Date Drilled:		June 3, 2016			
Drilling Contractor		Drilling services		Operator and Rig #		Rob Pate #300					
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology	
Diameter:		30'		Length		21.5					
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		519		Length of Pier:		21.5			
Start Time:		7:00 AM		Finish Time:		10:30		Delays:			
Concrete Placed Date and Time:		6/3/2016		Supplier:		Metro		Tested:		Yes	
Slump:		6		Air:		2		Temp:		83	
						Ambient air temp		73			
Design Strength @ 28 Days:		5000		Admixtures added on site:		1g Super P					
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		S 004					
Horizontal Tie Details:		S 004						Compliant:		Yes	
Clearance :		Top:		Yes		Bottom:		Yes		Sides:	
										Compliant:	
Anchor Bolts Checked:		N/A		Anchor Bolt Details:							
Strata Information:											
		Surface:		Description:							
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
Rock Socket Information:		Depth:		6.5		Type:		Finely crystalline limestone			
CDG Technician:		Mark Arnold				Date:		June 3, 2016			

City Design Group Inc. Drilled Pier Report											
Pier Identification		Y-4.5				Date Drilled:		June 6, 2016			
Drilling Contractor		Drilling services		Operator and Rig #		Rob Pate #300					
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology	
Diameter:		30		Length							
Design Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:		536.25		Ground Elevation:		540.5			
		Bottom Elevation:		522.1		Length of Pier:					
Start Time:		11:40 AM		Finish Time:		2:00		Delays:			
Concrete Placed Date and Time:		6/6/2016		Supplier:				Tested:		N/A	
Slump:				Air:				Ambient air temp:			
Design Strength @ 28 Days:		5000		Admixtures added on site:							
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		S 004					
Horizontal Tie Details:		S 004						Compliant:		Yes	
Clearance :		Top: Yes		Bottom: Yes		Sides: Yes		Compliant:		Yes	
Anchor Bolts Checked:		N/A		Anchor Bolt Details:							
Strata Information:											
		Surface:		Description:							
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
		Depth:		Description:							
		Auger or core:									
Rock Socket Information:		Depth:		6.4'		Type:		Moderate to Finely crystalline limestone			
CDG Technician:		Mark Arnold				Date:		June 6, 2016			

City Design Group Inc. Drilled Pier Report												
Pier Identification		Z4.4 (DP1, PC1)				Date Drilled:		June 1, 2016				
Drilling Contractor		Drilling services			Operator and Rig #		Rob Pate #300					
Job Name:		Webster Univ. ISB		Job #:		13250		Client:		Geotechnology		
Diameter:		30"			Length		17.7'					
Design Information:		Top of Concrete Elevation:			536.25		Ground Elevation:		540.5			
		Bottom Elevation:			Variable		Length of Pier:		5' rock socket			
As Built Information:		Top of Concrete Elevation:			536.25		Ground Elevation:		540.5			
		Bottom Elevation:			518.8		Length of Pier:		17.9'			
Start Time:		7:50 AM		Finish Time:		10:35		Delays:				
Concrete Placed Date and Time:		6/1/2016 1:45				Supplier:		Metro		Tested: Yes		
Slump:		3.0		Air:		2.1		Temp:		87		
Design Strength @ 28 Days:		5000		Admixtures added on site:				Ambient air temp:		80		
Reinforcing Steel Checked:		Yes		Vertical Bar Details:		S 004						
Horizontal Tie Details:		S 004								Compliant:		Yes
Clearance :		Top:		Bottom:		Sides:				Compliant:		Yes
Anchor Bolts Checked:		N/A		Anchor Bolt Details:								
Strata Information:												
		Surface:		Description:								
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
		Depth:		Description:								
		Auger or core:										
Rock Socket Information:		Depth:		5.7'		Type:		Bedrock				
CDG Technician:		Mark Arnold				Date:		June 1, 2016				