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Introduction	The REDC Building
Infroduction	Location: Erie, PA
Pre-bid <i>WBE/MBE</i>	Building Occupants: School of Business and School of Engineering and Engineering Technology
Scope Review	Owner: The Pennsylvania State University and Department of General Services
Procurement	Total Cost: \$30 million Structure: Steel
Skylight	Exterior: Glass, Metal Panel, and Brick Walls Thermoplastic Roofing
Construction Windmill	Size: 161,500 Sq.Ft.; 2.5 stories
Conclusion	
Questions	

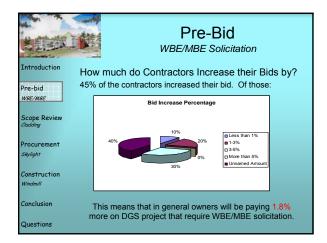


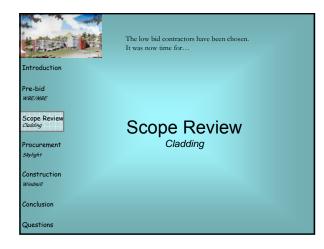












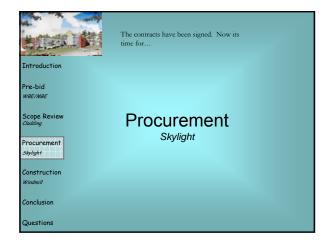


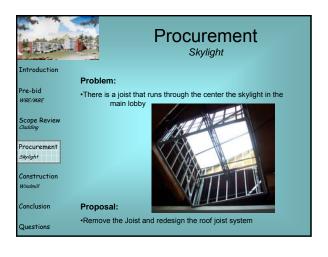
	Sco	pe R		W
Introduction	Cost:			
Pre-bid <i>WBE/MBE</i>	Name	Cost/ SF	Cost	Maintenance
Scope Review	Glass and aluminum supports	\$45	\$175,500	\$0
Cladding	Brick	\$28.75	\$112,125	\$0
Procurement Skylight	Metal Siding and aluminum supports	\$9.79	\$35,244	\$229,670 (@4%)
Construction Windmill	This makes the Brick the Chea cost for metal panel is cheaper		n event tho	ught the initial
Conclusion				
Questions				

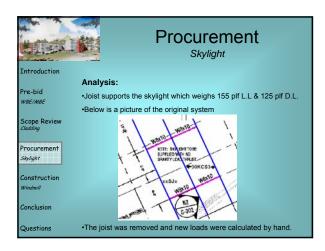
No. of Street,					
Introduction	Schedule:				
Pre-bid <i>WBE/MBE</i>	Name	Daily Output	Construction Length		
Scope Review	Glass and Supports	98 SF/Day	41 days		
Cladding	Brick	230 SF/Day	17 days		
Procurement Skylight	Metal Siding	775 SF/Day	6 days		
Construction	Aluminum supports	1020 SF/Day	1 day added to systems that need this		
Windmill Conclusion	Metal Panel is the fastest This means that adding a				

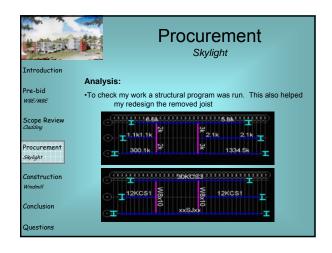
	Scope Review	
Introduction Pre-bid	Structural Support:	
WBE/MBE		
Scope Review		
Procurement Skylight		
Construction Windmill	METAL SECTION DI MASONYY WALL-SECTION DI MASONYY WALL-SECTION CONTRACTORY CONTRACTORY CONTRACTORY CONTRACTORY CONTRACTORY	5
Conclusion	All three systems are supported by the same curtain wall even though the metal panel is 12 psf, the glass is 30 psf, and the brick is 55 psf.	
Questions		

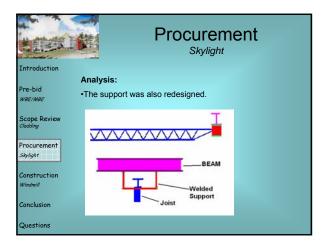
* Electron		Scope _{Cla}	dding	vv
Introduction	Conclusion:			
Pre-bid	Research	Metal Panel	Glass	Brick
Scope Review	Lifetime Cost (@ 4%)	\$229,670	\$175,500	\$112,125
Cladding	Maintenance	\$85,000 every 7 years	\$0	\$0
Procurement	System	\$35,244	\$175,500	\$112,125
Skylight	Schedule	6 days	41 day	17 days
Construction	Structure	All same	All same	All same
winamin	Constructability	Worst	Middle	Best
Conclusion Questions		ends up being the best sys hanged as a change order		ing.





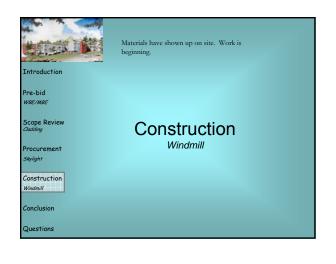


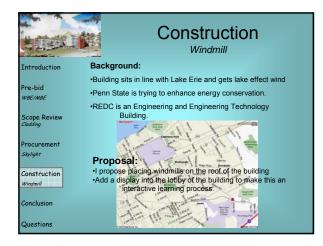


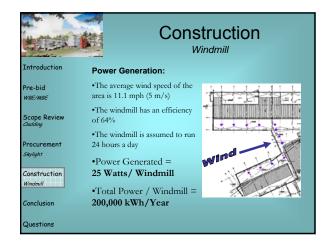


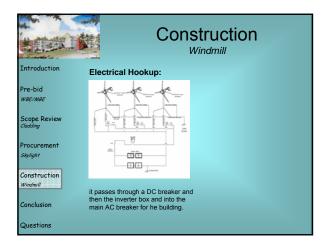
	Pro	Skylight	nt
Cost:			
Name	Unit	Original Amount	New Amount
30KCS3	13.13 per LF	69 LF (\$905.97)	36 LF (\$472.68)
12KCS1	9.57 per LF	0	23 LF (\$220.11)
Welding	51.60 per LF	0	4 LF (\$206.40)
1" Steel Plate	39 per SF	0	2 SF (\$78.00)
	Total	\$905.97	\$977.19
This is a total in	crease of just c	over \$71.	
Name	Unit	Original Amount	New Amount
Name Welding	Unit 12 per Day	Original Amount 0	New Amount 4 LF (+2hr 40 min)
	Name 30KCS3 12KCS1 Welding 1" Steel Plate	Name Unit 30KCS3 13.13 per LF 12KCS1 9.57 per LF Weiding 51.60 per LF 1" Steel Plate 39 per SF Total Total	Name Unit Original Amount 30KCS3 13.13 per LF 69 LF (\$905.97) 12KCS1 9.57 per LF 0 Welding 51.60 per LF 0 1"Steel Plate 39 per SF 0



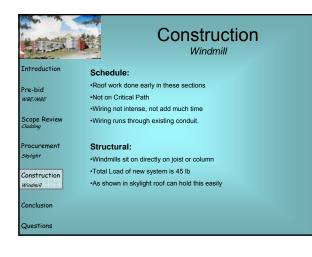


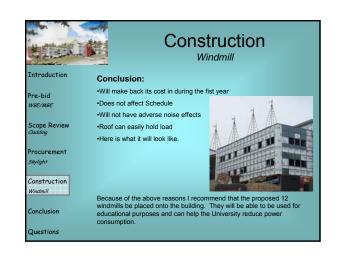


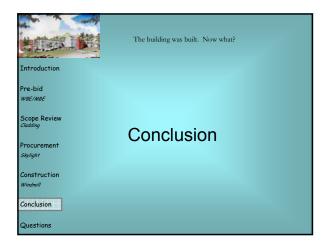




	Construction Windmill
Introduction	Cost:
Pre-bid <i>WBE/MBE</i>	 Power savings = 9.6 ¢/kWh → \$18,800/windmill saved Total Savings in electrical costs in first year = \$225,600 Windmill Costs = \$1,500/windmill
Scope Review Cladding	•Kiosk = \$2,600 •Backup Battery system = \$3,000
Procurement	•Wiring = \$6,000
Skylight	•Total Cost= \$30,000
Construction Windmill	Noise: •Sits on isolators so no vibrations travel through building
Conclusion	Blades have anti-flutter system
Questions	•Motor has speed control



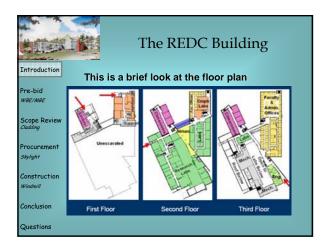




Introduction		Price	Time	Other
Pre-bid	Industry	+ 1.8%	+ Time	
<i>WBE/MBE</i> Scope Review	Cladding To glass	- \$117,545	+11 days	Same structure & Constructability
Cladding	Skylight	+ \$71	+ 3 hours	New structure and steel schedule
Procurement <i>Skylight</i>	Windmill	- \$195,600	+ Time	Same structure and noise new electrical
	Total	- \$313,145	+15 days	No other changes

ALL DE	Conclusion
Introduction	
Pre-bid WBE/MBE Scope Review Cladding	And the building was built cheaper, was cheaper to run and was better for the environment. So, they all lived happily ever after
Procurement Skylight	
Construction Windmill	The End
Conclusion	
Questions	





	Pre-Bid WBE/MBE Solicitation
Introduction	What Are the biggest problems with WBE/MBE Solicitation?
Pre-bid WBE/MBE	 The WBE/MBE Subcontractors are not properly qualified.
WBE/MBE	 The WBE/MBE Subcontractors not responding
Scope Review	 The resulting bids not low enough bids.
Procurement	What do contractors think of this process?
Skylight	 Many Contractors feel that this program does not help truly disadvantaged businesses and is
Construction	therefore corrupt.
Windmill	 Other contractors feel that there should be no difference between "disadvantaged businesses"
Conclusion	and other companies.
Questions	



