



DEPARTMENT OF THE ARMY
HUNTINGTON DISTRICT, CORPS OF ENGINEERS
502 EIGHTH STREET
HUNTINGTON, WEST VIRGINIA 25701-2070

REPLY TO
ATTENTION OF

February 22, 2008

Engineering and Construction Division
Cost Engineering and Technical Support Branch

SUBJECT: Technical Analysis of the 90% Cost Estimate for the Fernald Preserve Visitors Center Design-Build Project

Joseph G. Werbrich
Department of Energy
175 Tri County Parkway
Suite D
Springdale, Ohio 45246

Dear Mr. Werbrich:

The Department of Energy (DOE) is in the process of converting an existing warehouse into a visitors center at the Fernald Preserve. This is being done through a design-build contract. S. M. Stoller Corporation (Stoller) is performing project management for the DOE.

In response to a request by the DOE to provide a validation review of the cost estimate, the U.S. Army Corps of Engineers, Huntington District has performed a technical analysis of Stoller's \$5,548,578 cost estimate for the 90% level of design for the visitors center. Mary Ann Rowe and Russell Craddock visited the Fernald Preserve office to gather information and review the pertinent data during the week of January 28 through February 1, 2008. We reviewed the 90% estimate, a draft of the 100% plans, and the integrated schedule. Following are our findings.

Stoller's 90% estimate is based upon quotes received from the design-build contractors Megen and URS, some suppliers, and a few items developed by Stoller. Many of the quotes are considered to be "worst case", a term used by Stoller, where there is more than enough money included in the quote to cover work anticipated even if the design is not final. The quotes supporting the 90% estimate were not verified. Refer to Adobe file FPVC \$5.6M Budget - 90% Estimate Evaluation which is bookmarked for references mentioned in these findings. For the previous 30% review some quotes were reviewed and they checked favorably with what was in the estimate. Stoller's representative informed us that some final quotes have been negotiated and that the expectations are that as time progresses many of the remaining quotes will be negotiated, resulting in lower costs.

The estimate was not reviewed based on a percentage. It is noted that there were no quantities, equipment, or labor and individual material prices to review. The estimate was based on quotes received and some of Stoller's estimated items. We provided a comparison of the baseline estimate vs. the 90% estimate. Refer to the attachment "LRH 90% Baseline Line Item

Comparison". (LRH stated above in the attachment title is an acronym for the Huntington District.) This comparison illustrates the many items added and cost and scope changes since the 30% review. We looked at the various line items identified in Stoller's 90% estimate alongside the initial funding estimate and categorized the work, as necessary, to match the breakdown shown in Stoller's \$5.6M Budget Spreadsheet as closely as possible. There was no way for us to validate individual item costs.

Our assessment is that S.M. Stoller will exceed the budget amount by approximately \$30,000. Looking at the attachment, you will see a comparison showing \$5,602,482 (the original budget) compared to \$5,629,710 (the 90% estimate assessment). The \$27,228 increase was rounded to \$30,000. A review of the bookmarked comparisons and summaries in the attachment shows the many construction, project management, overhead, and engineering and design line item additions and deletions that have been made as this project has evolved. Essentially all of the savings resulting from Stoller's decreased overhead percentage have shifted elsewhere in the estimate to cover many omissions in the initial funding estimate, and items added due to design changes. Work done prior to February 24, 2008 is being done under a contract that has 30% overhead. Work after February 24 is being done under another contract carrying an 8% overhead. Stoller provided the time frame that work was expected to be completed in relation to February 24, 2008. We applied the 30% overhead to work to be done before that date and 8% to work expected to be completed after that date. (Also we moved some items in different categories which actually didn't have any bearing on the cost.) Stoller's 90% estimate was \$5,548,578 based on a little different approach related to overheads. The 90% estimate assessment was \$81,132 higher than Stoller's 90% estimate. Increased scopes for several site features from the 60% to 100% plans were observed. Stoller's project manager feels he will be able to remain within the initial budget by either (1) negotiating any scope creep with the subcontractors in order to construct the items shown for this design-build contract or (2) changing the design to either reduce or delete portions of the work. It is obvious that deletions are occurring because some of the items shown in the February 24, 2008 set of 100% plans have already been eliminated from the design. An example is the 100' long trench drain at the parking lot.

The FPVC Integrated Project Schedule, which includes additional work beyond the scope of this design-build contract and budget, was furnished for this review. Stoller's schedule is comprehensive but includes little float time. When looking at the critical path, as well as other remaining work, there is a lot of work which goes on simultaneously. The schedule gives the impression that although enough time may be scheduled to do individual items, if materials do not arrive on time or if a subcontractor isn't able to start on the exact day scheduled then the schedule will shift. Items may have the correct duration but planning and scheduling all the work done by different disciplines, subs, and fabricators may present a challenge in the compressed construction schedule.

Some scheduled items are unrealistic. One example is the drywall installation and painting where the painting is scheduled to start before all the drywall is completely installed. It is unlikely that painting would begin before all the drywall sanding and finishing is completed and the area is cleaned of dust.

An area of concern is the fabrication of exhibits and casework due to start on 3-10-08. The complete exhibit design is not due until 3-21-08. Will the work completed between 3-10-08 and 3-21-08 really be acceptable or will it not have to be redone if there is a design change?

Another concern is that some items that are not considered to be on the critical path may get delayed some and become a part of the critical path. Will these items get done before the deadline? There is work that is scheduled to be going on prior to the final design due date. How much if any will have to be redone if the design changes?

It should also be noted that Stoller has confirmed the current pricing and schedule does not reflect overtime.

We reviewed the schedule and based on our experience; feel that it is too optimistic. Without knowledge of the crew and labor allocation, the duration shown cannot be verified. Our assessment is that Stoller will exceed the June 21, 2008 allowable schedule deadline by approximately 30 days. This would additionally impact the overall project cost. There are just many things that can extend a schedule no matter how optimistically it is put together.

The bottom line in performing a comparison between the 30% budget estimate and the 90% estimate is that Stoller is shifting funding to remain within the budget.

Sincerely,



Michael G. Ferguson, P.E.

Chief, cost and Technical Support Branch

Attachment: PDF files

\$5.6M Budget

Design Element	Baseline	Revision	EAC	Cost Source Document	Revised
1 Building Design (A/E Services)					
1.1 30% Design	\$98,600		\$98,600	Megan - Proposal Clarifications	09/26/07
1.2 60% Design	\$88,740		\$88,740	Megan - Proposal Clarifications	09/26/07
1.3 90% Design	\$44,370		\$44,370	Megan - Proposal Clarifications	09/26/07
1.4 Final Design	\$14,790		\$14,790	Megan - Proposal Clarifications	09/26/07
1.5 Construction Oversight	\$73,400		\$73,400	Megan - Proposal Clarifications	09/26/07
Total: Building Design (A/E Services)	\$319,900		\$319,900		
2 Building Construction					
2.1 Building 94K Exterior Modifications					
2.1.1 Selective Demolition: Remove Doors, Loading	\$61,390		\$61,390	Megen August 28 BAFO Division 1	09/26/07
2.1.2 Concrete Footing at Solstice Wall	\$4,000		\$4,000	Megen August 28 BAFO Division 2	09/26/07
2.1.3 Concrete Sidewalk Entry	\$2,880		\$2,880	Megen August 28 BAFO Division 2	09/26/07
2.1.4 Fill In/Compact Truck Dock Ramp	\$1,550		\$1,550	Megen August 28 BAFO Division 2	09/26/07
2.1.5 6" Slab on Grade (at Truck Dock)	\$9,940		\$9,940	Megen August 28 BAFO Division 2	09/26/07
2.1.6 Patch Slabs	\$1,200		\$1,200	Megen August 28 BAFO Division 2	09/26/07
2.1.7 Concrete Pad at Pedestrian Door	\$1,020		\$1,020	Megen August 28 BAFO Division 2	09/26/07
2.1.8 Wall Block Foundation	\$1,900		\$1,900	Megen August 28 BAFO Division 4	09/26/07
2.1.9 8" & 4" Split Face Block Two Wythe -Ext	\$72,400		\$72,400	Megen August 28 BAFO Division 4	09/26/07
2.1.10 Exterior Precast Cap	\$2,720		\$2,720	Megen August 28 BAFO Division 4	09/26/07
2.1.11 Canopy Framing/Mezzanine Steel	\$92,500		\$92,500	Megen Original Div 6 reduced \$100K	09/26/07
2.1.12 Canopy Roof Decking	\$11,500		\$11,500	Megen Original Proposal Division 6	09/26/07
2.1.13 Misc. Metals for Framing	\$18,600		\$18,600	Megen Original Proposal Division 6	09/26/07
2.1.14 Column Relocation - East Wall	\$4,500		\$4,500	Megen Original Proposal Division 6	09/26/07
2.1.15 New Column - East Wall	\$5,600		\$5,600	Megen Original Proposal Division 6	09/26/07
2.1.16 Roof Warranty	\$4,000		\$4,000	Megen Original Proposal Division 7	09/26/07
2.1.17 Roof Modifications	\$1,200		\$1,200	Megen Original Proposal Division 7	09/26/07
2.1.18 Roof Drainage Modifications	\$1,200		\$1,200	Megen Original Proposal Division 7	09/26/07
2.1.19 Sealants & Caulking	\$1,700		\$1,700	Megen Original Proposal Division 7	09/26/07
2.1.20 Emergency Egress Doors (6)	\$8,160		\$8,160	Megen Original Proposal Division 8	09/26/07
2.1.21 Front Entry Doors (4 pair)	\$25,600		\$25,600	Megen Original Proposal Division 8	09/26/07
2.1.22 Windows in Offices (84 sf)	\$4,700		\$4,700	Megen Original Proposal Division 8	09/26/07
2.1.23 Aluminum Curtain Wall (2947 sf)	\$170,928		\$170,928	Orig. Proposal (Reduced to 80% -redesign)	09/26/07
2.1.24 Skylights (0)	\$0		\$0	Megen Original Proposal Division 8	09/26/07
2.1.25 Solar Shading Louver System	\$35,000		\$35,000	Orig. Proposal (Reduced to 80% -redesign)	09/26/07
Total: Building 94K Exterior Modifications	\$544,188		\$544,188		

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\$5.6M Budget

2.2 Interior Construction and Finish						
2.2.1	Interior Precast Cap	\$3,390			\$3,390	Megen August 28 BAFO Division 4
2.2.2	4" Split Face Veneer	\$34,600			\$34,600	Megen August 28 BAFO Division 4
2.2.3	Cabinetry & Millwork	\$48,000			\$48,000	Megen August 28 BAFO Division 6
2.2.4	Misc Blocking	\$2,630			\$2,630	Megen August 28 BAFO Division 6
2.2.5	Interior/Office Doors (16)	\$21,600			\$21,600	Megen Original Proposal Division 8
2.2.6	Interior Door to DOE Office Area	\$2,800			\$2,800	Megen Original Proposal Division 8
2.2.7	Mtl Stud, Insulate, Drywall, Acoustic Ceiling	\$204,500			\$204,500	Megen August 28 BAFO Division 9
2.2.8	Sound Rating (at offices)	\$10,350			\$10,350	Megen August 28 BAFO Division 9
2.2.9	Flooring - Carpet	\$4,310			\$4,310	Megen August 28 BAFO Division 9
2.2.10	Flooring - Vinyl	\$13,560			\$13,560	Megen August 28 BAFO Division 9
2.2.11	Flooring - Clean Existing Concrete	\$3,810			\$3,810	Megen August 28 BAFO Division 9
2.2.12	Walls - Ceramic	\$13,690			\$13,690	Megen August 28 BAFO Division 9
2.2.13	Painting - Walls/Bulkhead/Ceiling	\$19,200			\$19,200	Megen August 28 BAFO Division 9
2.2.14	Painting - Wood Stain Doors	\$1,960			\$1,960	Megen August 28 BAFO Division 9
2.2.15	Interior Window Shading System	\$10,800			\$10,800	Megen August 28 BAFO Division 9
2.2.16	Fire Extinguisher & Cabinet (5)	\$1,430			\$1,430	Megen August 28 BAFO Division 10
2.2.17	Toilet Partitions (4)	\$3,200			\$3,200	Megen August 28 BAFO Division 10
2.2.18	Toilet Tissue Dispenser (5)	\$280			\$280	Megen August 28 BAFO Division 10
2.2.19	Paper Tvl Dispenser (5)	\$580			\$580	Megen August 28 BAFO Division 10
2.2.20	Grab Bar (6)	\$690			\$690	Megen August 28 BAFO Division 10
2.2.21	Mirrors (36 sf)	\$720			\$720	Megen August 28 BAFO Division 10
2.2.22	Soap Dispensers (5)	\$300			\$300	Megen August 28 BAFO Division 10
2.2.23	Lockers (5)	\$580			\$580	Megen August 28 BAFO Division 10
2.2.24	Locker Rm Bench (4 lf)	\$460			\$460	Megen August 28 BAFO Division 10
2.2.25	Recycling Tubs - Medium (3)	\$350			\$350	Megen August 28 BAFO Division 10
2.2.26	Recycling Tubs - Large (3)	\$750			\$750	Megen August 28 BAFO Division 10
2.2.27	Signage - Lettering	\$120			\$120	Megen August 28 BAFO Division 10
2.2.28	Bicycle Racks	\$2,400			\$2,400	Megen August 28 BAFO Division 11
2.2.29	Public Sustainability Program	\$0			\$0	Megen August 28 BAFO Division 11
	Total: Interior Construction and Finish	\$407,060			\$407,060	
2.3 Mechanical Systems						
2.3.1	Fire Protection	\$20,000			\$20,000	Megen August 28 BAFO Division 15
2.3.2	Plumbing	\$110,800			\$110,800	Megen August 28 BAFO Division 15
2.3.3	HVAC (Conventional Electric Heat/AC)	\$322,000			\$322,000	Megen Original Proposal Division 15
2.3.4	Third Party Commissioning - Fundamental	\$18,300			\$18,300	Megen Original Proposal Division 15

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2.3.5	Third Party Commissioning - Enhanced		\$20,750		\$20,750	Megen Original Proposal Division 15	09/26/07
2.3.6	Adder for Geothermal		\$47,000		\$47,000	Megen Original Proposal Division 15	09/26/07
	Total: Mechanical Systems		\$538,850		\$538,850		
2.4	Electrical Systems						
2.4.1	Electrical		\$199,500		\$199,500	Megen August 28 BAFO Division 16	09/26/07
2.4.2	Fire Alarm		\$17,000		\$17,000	Megen August 28 BAFO Division 16	09/26/07
	Total: Electrical Systems		\$216,500		\$216,500		
	Total Building Construction		\$1,706,598		\$1,706,598		
3	Wastewater - Biowetland						
3.1	Conceptual Design		\$14,645		\$14,645	Potential Subcontractor Proposal	09/26/07
3.2	60% Design		\$11,155		\$11,155	Potential Subcontractor Proposal	09/26/07
3.3	90% Design		\$6,090		\$6,090	Potential Subcontractor Proposal	09/26/07
3.4	Final Design		\$3,820		\$3,820	Potential Subcontractor Proposal	09/26/07
3.5	Construction Support		\$22,875		\$22,875	Potential Subcontractor Proposal	09/26/07
3.6	Mobilization/Demobilization		\$9,885		\$9,885	Potential Subcontractor Proposal	09/26/07
3.7	Pre-Construction		\$7,180		\$7,180	Potential Subcontractor Proposal	09/26/07
3.8	Septic Tank Installation (4,000 gal)		\$14,360		\$14,360	Potential Subcontractor Proposal	09/26/07
3.9	SSF Wetland		\$34,155		\$34,155	Potential Subcontractor Proposal	09/26/07
3.10	SF Wetland		\$29,577		\$29,577	Potential Subcontractor Proposal	09/26/07
3.11	Additional Construction Items		\$12,520		\$12,520	Potential Subcontractor Proposal	09/26/07
3.12	Office & Site Support		\$71,220		\$71,220	Potential Subcontractor Proposal	09/26/07
	Total: Wastewater - Biowetland		\$237,482		\$237,482		
4	EcoLandscape/Hardscape						
4.1	Landscape Design		\$10,000		\$10,000	Landscape Allowance Only	09/26/07
4.2	Remove Gravel & Regrade		\$10,000		\$10,000	Landscape Allowance Only	09/26/07
4.3	Parking Lot Lighting		\$30,000		\$30,000	Landscape Allowance Only	09/26/07
4.4	Stripe Parking Lot		\$5,000		\$5,000	Landscape Allowance Only	09/26/07
4.5	Concrete Walk from Parking (3800 sf)		\$39,900		\$39,900	Megen August 28 BAFO - Landscape	09/26/07
4.6	Light walkway from Bldg to Parking		\$20,000		\$20,000	Landscape Allowance Only	09/26/07
4.7	Cold War Garden Allowance		\$20,000		\$20,000	Landscape Allowance Only	09/26/07
4.8	Tree Allowance		\$20,000		\$20,000	Landscape Allowance Only	09/26/07
4.9	Misc Planting/Perennial Allowance		\$10,000		\$10,000	Landscape Allowance Only	09/26/07
4.10	Flag Pole (3)		\$6,300		\$6,300	Megen August 28 BAFO - Landscape	09/26/07
4.11	Handicap/Eco-Preference Parking Signage		\$2,100		\$2,100	Megen August 28 BAFO - Landscape	09/26/07
4.12	Handicap Access Ramps (2)		\$3,200		\$3,200	Megen August 28 BAFO - Landscape	09/26/07

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8.3	Project Manger Lodging (7 months)	\$8,400	\$8,400	Apartment Lease/ Furniture/ Lease for 7 mo.	09/26/07
8.4	Project Manager Per Diem	\$6,750	\$6,750		09/26/07
8.5	Procurement Airfare	\$4,000	\$4,000		09/26/07
8.6	Procurement Rental Car	\$1,000	\$1,000		09/26/07
8.7	Procurement Lodging	\$0	\$0	Stay in Rental Apartment with PM	09/26/07
8.8	Procurement Per Diem	\$1,000	\$1,000		09/26/07
8.9	Project Integrator (ML 679 hr)				09/26/07
8.10	Project Manager (JAE 1358 hr)				09/26/07
8.11	Project Controls (DS 216 hr)	\$7,882	\$7,882		09/26/07
8.12	Procurement Support (RS 385 hr)				09/26/07
	Total: Project Support/Management	\$230,921	\$230,921		09/26/07
	9 Exhibit Design				
9.1	University of Cincinnati DAAP	\$74,000	\$74,000	Original UC PO \$166K; FY07 Cost = \$46K	09/26/07
	Total: Exhibit Design	\$74,000	\$74,000	UC working to a revised \$120K budget	
	10 Exhibit Fabrication/Installation				
10.1	Exhibit Area Allowance	\$700,000	\$700,000	Exhibit allowance. UC is aware of and	09/26/07
	Total: Exhibit Fabrication/Installation	\$700,000	\$700,000	designing to \$700K	
	Subtotal	\$4,001,909	\$4,001,909		09/26/07
	Overhead (30%)	\$1,200,573	\$1,200,573		
	Total	\$5,202,482	\$5,202,482		
	FY 07 Costs				
	FY07 EAC	\$ 400,000	\$ 400,000		09/26/07
	Grand Total FPVC FY07 & FY08 Costs	\$ 5,602,482	\$ 5,602,482		

Fernald Preserve Visitors Center

Estimated Total Project Cost Update

	Full Design Implementation	Estimated Cost	Source Document	Stoller Costs	Megen Costs	URS Costs	UC Costs	Kolar Costs	Harlan Costs
1	Building Design (A/E Services)								
1.1	30% Design	\$98,600	Megen July 16 2007 Clarifications		\$98,600				
2	60% Design	\$88,740	Megen July 16 2007 Clarifications		\$88,740				
3	90% Design	\$44,370	Megen July 16 2007 Clarifications		\$44,370				
4	Final Design (Total Original Design Cost)	\$14,790	Megen July 16 2007 Clarifications		\$14,790				
5	Construction Oversight	\$73,500	Megen July 16 2007 Clarifications		\$73,500				
6	Landscape Design	\$31,000	Megen Construction Estimate Rec. 1-31 (EA Costs)		\$31,000				
7	CID 3 Design Changes Related to Solstice Wall and Other Changes	\$14,430	Megen Construction Estimate Rec. 1-31 (EA Costs)		\$14,430				
8	CID2 Incorporate UC Design into overall Construction Documents	\$7,000	Megen Construction Estimate Rec. 1-31 (EA Costs)		\$7,000				
9	CID1 Incorporate Site Elements into Design	\$3,000	Megen Construction Estimate Rec. 1-31 (EA Costs)		\$3,000				
	Total: Building Design (A/E Services)	\$375,430							
2	Building Construction								
2.1	Building 34K Exterior Modifications								
10	Selective Demolition: Remove Doors, Loading Dock, Etc.	\$47,500	Megen Construction Estimate Rec. 1-31 (Div 2)		\$47,500				
11	Sawcut accent path lines	\$0	Megen Construction Estimate Rec. 1-31 (Div 2)		\$0				
12	Temporary weather protection	\$5,000	Megen Construction Estimate Rec. 1-31 (Div 2)		\$5,000				
13	Haul building debris	\$1,800	Megen Construction Estimate Rec. 1-31 (Div 2)		\$1,800				
14	CID1 Install silt fence as required for excavations	\$1,200	Megen Construction Estimate Rec. 1-31 (Div 2)		\$1,200				
15	CID2 Chain link fence in Exhibit Area (install only)	\$960	Megen Construction Estimate Rec. 1-31 (Div 2)		\$960				
16	CID3 Sawcut and remove slab on grade at 2 entry locations	\$3,360	Megen Construction Estimate Rec. 1-31 (Div 2)		\$3,360				
17	CID3 Sawcut and remove foundation walls at 2 entry locations	\$1,620	Megen Construction Estimate Rec. 1-31 (Div 2)		\$1,620				
18	CID3 Excavate to expose foundation walls	\$720	Megen Construction Estimate Rec. 1-31 (Div 2)		\$720				
19	CID3 Soils Engineering required for revised solstice wall location	\$6,000	Megen Construction Estimate Rec. 1-14 (Div 3)		\$6,000				
20									
21	CID3 Engineers layout work required for revised solstice wall angle	\$4,200	Megen Construction Estimate Rec. 1-31 (Div 2)		\$4,200				
22	CID3 hand cut and expose structural elements in slab on grade	\$1,500	Megen Construction Estimate Rec. 1-31 (Div 2)		\$1,500				
23	CID4 Locate utilities outside building line and incorporate into project documents	\$1,200	Megen Construction Estimate Rec. 1-31 (Div 2)		\$1,200				
24	CID7 remove gravel paved area at south and west of building	\$1,250		\$1,250					
25	CID7 place salvaged stone in low area at west of building - controlled fill	\$0		\$0					
26	CID7 remove existing catch basin west of building-plug inlet/outlet pipe	\$500		\$500					
27	CID7 cold war garden landscape	\$1,000		\$1,000					
28	CID7 asphalt pavement	\$50,000		\$50,000					
29	CID7 topsoil/seed 2' band around all concrete pavement and handicap parking area	\$0		\$0					
30	CID7 adjust grades to pour sidewalks	\$2,500		\$2,500					
31	CID7 adjust grade for proper drainage	\$2,500		\$2,500					
32	CID8 Cut trenches in floors Rms 010 and 014 for Communications Equipment	\$980	Megen Construction Estimate Rec. 1-31 (Div 2)		\$980				
	Construction Modifications Total	\$133,790							

Fernald Preserve Visitors Center

Estimated Total Project Cost Update

	Full Design Implementation	Estimated Cost	Source Document	Stoller Costs	Megen Costs	URS Costs	UC Costs	Kolar Costs	Harlan Costs
	Exterior								
33	Concrete Footing at Solslice Wall	\$5,250	Megen Construction Estimate Rec. 1-31 (Div 3)		\$5,250				
34	Concrete Sidewalk Entry	\$2,500	Megen Construction Estimate Rec. 1-31 (Div 3)		\$2,500				
35	Fill In/Compact Truck Dock Ramp	\$1,370	Megen Construction Estimate Rec. 1-31 (Div 3)		\$1,370				
36	6" Slab on Grade (at Truck Dock)	\$8,800	Megen Construction Estimate Rec. 1-31 (Div 3)		\$8,800				
37	Patch Slabs	\$1,000	Megen Construction Estimate Rec. 1-31 (Div 3)		\$1,000				
38	Concrete Part at Pedestrian Door	\$900	Megen Construction Estimate Rec. 1-31 (Div 3)		\$900				
39	Wall Block Foundation	\$2,520	Megen Construction Estimate Rec. 1-31 (Div 4)		\$2,520				
40	Accent Wall w/ CMU Stone Veneer & Cap-Ext	\$72,000	Megen Construction Estimate Rec. 1-31 (Div 4)		\$72,000				
41	CID3 Changes to Masonry Solslice Wall	\$324,500	Megen Construction Estimate Rec. 1-31 (Div 4)		(\$324,500)				
42	8" & 4" Split Face Block Two Wythe -Ext	\$0	Megen Construction Estimate Rec. 1-31 (Div 4)		\$0				
43	Exterior Precast Cap	\$0	Megen Construction Estimate Rec. 1-31 (Div 4)		\$0				
44	Canopy Framing/Mezzanines Steel	\$173,140	Megen Construction Estimate Rec. 1-31 (Div 4)		\$173,140				
45	Canopy Roof Decking	\$10,000	Megen Construction Estimate Rec. 1-31 (Div 5)		\$10,000				
46	CID3 Revise front canopy design	\$3,300	Megen Construction Estimate Rec. 1-31 (Div 5)		(\$78,000)				
47	Misc. Metals for Framing	\$15,000	Megen Construction Estimate Rec. 1-31 (Div 5)		\$15,000				
48	Column Relocation - East Wall	\$4,000	Megen Construction Estimate Rec. 1-31 (Div 5)		\$4,000				
49	CID3 Delete column relocation-East Wall	\$1,400	Megen Construction Estimate Rec. 1-31 (Div 5)		(\$4,000)				
50	New Column - East Wall	\$5,000	Megen Construction Estimate Rec. 1-31 (Div 5)		\$5,000				
51	CID3 Delete new column-East Wall	\$3,500	Megen Construction Estimate Rec. 1-31 (Div 5)		(\$5,000)				
52	Roof Warranty	\$1,500	Megen Construction Estimate Rec. 1-31 (Div 7)		\$3,500				
53	CID3 Delete Roof Warranty	\$1,000	Megen Construction Estimate Rec. 1-31 (Div 7)		(\$3,500)				
54	Roof Modifications	\$1,000	Megen Construction Estimate Rec. 1-31 (Div 7)		\$1,000				
55	Roof Drainage Modifications	\$22,400	Megen Construction Estimate Rec. 1-31 (Div 7)		\$1,000				
56	Sealants & Caulking	\$1,500	Megen Construction Estimate Rec. 1-31 (Div 7)		\$1,500				
57	Front Entry Doors (4 pair)	\$191,560	Megen Construction Estimate Rec. 1-31 (Div 8)		\$22,400				
58	Aluminum Curtain Wall (2947 sf)	\$1,410	Megen Construction Estimate Rec. 1-31 (Div 8)		\$191,560				
59	CID3 Revise Curtain Wall system based on revised Solslice Wall location	\$15,000	Megen Construction Estimate Rec. 1-31 (Div 8)		(\$30,485)				
60	Skylights	\$15,000	Megen Construction Estimate Rec. 1-31 (Div 8)		\$15,000				
61	CID3 Delete motorized skylights	\$15,000	Megen Construction Estimate Rec. 1-31 (Div 8)		(\$15,000)				
62	Solar Shading Louver System	\$43,700	Megen Construction Estimate Rec. 1-31 (Div 10)		\$43,700				
63	Include Solar Shading system as a component of storefront	\$43,700	Megen Construction Estimate Rec. 1-31 (Div 10)		(\$43,700)				
64	Include Solar Shading System as a component of the Curtain Wall System	\$35,000	Megen Construction Estimate Rec. 1-31 (Div 8)		\$35,000				
65	CID3 Pour footings at revised entry locations	\$500		\$500					
66	CID3 reinforcing steel	\$0	Will be included in Footings Price Line 65	\$0					
67	CID3 concrete	\$0	Will be included in Footings Price Line 66	\$0					
68	CID3 insulation	\$0	Will be included in footings Price Line 67	\$0					
69	CID3 Revised Solslice Wall footings based on soils analysis	\$10,000		\$10,000					
70	CID3 Revise Canopy footings based on soils analysis	\$15,000		\$15,000					
71									
72	CID7 additional concrete pavement from fire exit doors to collection areas	\$11,200	Megen Construction Estimate Rec. 1-31 (Div 3)		\$0				
73	CID7 additional concrete paving exceeding original proposed amount	\$0	Megen Construction Estimate Rec. 1-31 (Div 3)		\$11,200				
74	CID7 walk at east doors to pond	\$11,300	Megen Construction Estimate Rec. 1-31 (Div 3)		\$0				
75	CID7 additional gathering area at south entry doors	\$10,350	Megen Construction Estimate Rec. 1-31 (Div 3)		\$11,300				
76	CID7 walks from south entry to CWG and parking lots	\$56,800	Megen Construction Estimate Rec. 1-31 (Div 3)		\$10,350				
77	CID7 asphalt pavement	\$0	Megen Construction Estimate Rec. 1-31 (Div 3)		\$56,800				
78	CID7 strips asphalt pavement	\$0	Covered in Line 28	\$0	\$0				
79	CID7 curb stops	\$500	Stoller Purchase Item, Stoller Estimate	\$500	\$0				
80	CID7 cold war garden footer/foundation	\$0	No footings required	\$0	\$0				
81	CID8 Replace concrete in trenches	\$1,386	Megen Construction Estimate Rec. 1-31 (Div 3)	\$0	\$1,386				
	Exterior Total	\$518,991							

Fernald Preserve Visitors Center

Estimated Total Project Cost Update

	Full Design Implementation	Estimated Cost	Source Document	Stoller Costs	Megen Costs	URS Costs	UC Costs	Kolar Costs	Harlan Costs
82	2.2 Interior Construction and Finish								
83	Accent Wall Stone Veneer & Cap Int	\$57,800	Megen Construction Estimate Rec. 1-31 (Div 4)		\$57,800				
84	Interior Precast Cap	\$0	Megen Construction Estimate Rec. 1-31 (Div 4)		\$0				
85	4" Split Face Veneer	\$0	Megen Construction Estimate Rec. 1-31 (Div 4)		\$0				
86	Cabinetry & Millwork	\$52,000	Megen Construction Estimate Rec. 1-31 (Div 6)		\$52,000				
87	CID3 Delete casework in Room 010	\$16,000	Megen Construction Estimate Rec. 1-31 (Div 6)		(\$10,000)				
88	CID3 Delete casework in Room 014	\$25,500	Megen Construction Estimate Rec. 1-31 (Div 6)		(\$25,500)				
89	Misc Blocking	\$2,250	Megen Construction Estimate Rec. 1-31 (Div 6)		\$2,250				
90	Interior/Office Doors (HM DOORS/FRAMES/HDR 3070 (6 ea))	\$7,200	Megen Construction Estimate Rec. 1-31 (Div 8)		\$7,200				
91	WD DOOR/FRAMES/HDR 3070 (15 each)	\$19,200	Megen Construction Estimate Rec. 1-31 (Div 8)		\$19,200				
92	WD DOOR/FRAMES/HDR 6070 (1 each)	\$2,500	Megen Construction Estimate Rec. 1-31 (Div 8)		\$2,500				
93	HM door/frame/hardware 3070	\$8,000	Megen Construction Estimate Rec. 1-31 (Div 8)		(\$8,000)				
94	Windows in Offices (84 sf) (Aluminum windows 84sf)	\$4,200	Megen Construction Estimate Rec. 1-31 (Div 8)		\$4,200				
95	Mil Stud, Insulate, Drywall, Acoustic Ceiling	\$183,430	Megen Construction Estimate Rec. 1-31 (Div 9)		\$183,430				
96	Sound Rating (at offices)	\$9,160	Megen Construction Estimate Rec. 1-31 (Div 9)		\$9,160				
97	Flooring - Carpet	\$5,530	Megen Construction Estimate Rec. 1-31 (Div 9)		\$5,530				
98	Flooring - Vinyl	\$11,970	Megen Construction Estimate Rec. 1-31 (Div 9)		\$11,970				
99	Flooding - Clean Existing Concrete	\$3,810	Error in Megen Estimate - \$3,810 is for cleaning, Megen original estimate was for staining concrete		\$3,810				
100	Walls - Ceramic	\$12,070	Megen Construction Estimate Rec. 1-31 (Div 9)		\$12,070				
101	Painting - Walls/Bulkhead/Ceiling	\$15,500	Megen Construction Estimate Rec. 1-31 (Div 9)		\$15,500				
102	Painting - Wood Stain Doors	\$1,800	Megen Construction Estimate Rec. 1-31 (Div 9)		\$1,800				
103	Interior Window Shading System	\$9,500	Megen Construction Estimate Rec. 1-31 (Div 9)		\$9,500				
104	Fire Extinguisher & Cabinet (5)	\$1,250	Megen Construction Estimate Rec. 1-31 (Div 10)		\$1,250				
105	Toilet Partitions (4)	\$2,800	Megen Construction Estimate Rec. 1-31 (Div 10)		\$2,800				
106	Toilet Tissue Dispenser (5)	\$250	Megen Construction Estimate Rec. 1-31 (Div 10)		\$250				
107	Paper Tow Dispenser (5)	\$500	Megen Construction Estimate Rec. 1-31 (Div 10)		\$500				
108	Grab Bar (6)	\$600	Megen Construction Estimate Rec. 1-31 (Div 10)		\$600				
109	Mirrors (36 sf)	\$540	Megen Construction Estimate Rec. 1-31 (Div 10)		\$540				
110	Soap Dispensers (5)	\$250	Megen Construction Estimate Rec. 1-31 (Div 10)		\$250				
111	Lockers (5)	\$500	Megen Construction Estimate Rec. 1-31 (Div 10)		\$500				
112	Locker Rm Bench (4 lf)	\$400	Megen Construction Estimate Rec. 1-31 (Div 10)		\$400				
113	CID3 Delete locker room bench	(\$400)	Megen Construction Estimate Rec. 1-31 (Div 10)		(\$400)				
114	Recycling Tubs - Medium (3)	\$300	Megen Construction Estimate Rec. 1-31 (Div 10)		\$300				
115	Recycling Tubs - Large (3)	\$600	Megen Construction Estimate Rec. 1-31 (Div 10)		\$600				
116	Signage - Lettering	\$1,000	Megen Construction Estimate Rec. 1-31 (Div 10)		\$1,000				
117	Bicycle Racks	\$2,000	Megen Construction Estimate Rec. 1-31 (Div 11)		\$2,000				
118	Public Sustainability Program	\$2,500	Megen Construction Estimate Rec. 1-31 (Div 11)		\$2,500				
119	Public Sustainability Education Program	\$2,500	Megen Construction Estimate Rec. 1-31 (Div 11)		(\$2,500)				
120	CID 1 TBD (Item now quantified in line item 9)				\$0				
121	CID2 Additional flooring per LIC Design	\$25,000	Megen Construction Estimate Rec. 1-14 (Div 9)		\$25,000				
122	CID2 Additional walls per LIC design	\$22,210	Megen Construction Estimate Rec. 1-14 (Div 9)		\$22,210				
123	CID2 Paint exposed ductwork over exhibit areas	\$4,000	Megen Construction Estimate Rec. 1-14 (Div 9)		\$4,000				
124	CID2 Paint exposed vinyl faced insulation over exhibit areas	\$4,500	Megen Construction Estimate Rec. 1-14 (Div 9)		\$4,500				
125	CID2 Structural Support for LIC Walls	\$2,500	Megen Construction Estimate Rec. 1-31 (Div 9)		\$2,500				
126	CID3 Add 2" rigid insulation to exterior frame walls-between masonry	\$3,200	Megen Construction Estimate Rec. 1-14 (Div 9)		\$3,200				
127	CID3 Add diagonal bracing enclosed dock bay	\$100	Megen Construction 90% Estimate Rec. 1-14 (Div 5)		\$100				
128	CID3 Add double width frame, 2 doors and 2 sets hardware to west wall	incl							
129	CID3 Add Entry Control Hardware	incl							
		\$3,100	Megen Construction 90% Estimate Rec. 1-14 (Div 8)		\$3,100				

Fernald Preserve Visitors Center

Estimated Total Project Cost Update

	Full Design Implementation	Estimated Cost	Source Document	Stoller Costs	Megen Costs	URS Costs	UC Costs	Kolar Costs	Harlan Costs
130	CID3 Add fluid applied air barrier to framed perimeter walls	TBD	Deleted From Previous Megen Estimate		\$0				
131	CID3 Add frames, doors and hardware in Room 010	incl	Megen Construction Estimate Rec. 1-31 (Div 6)						
132	CID3 Add plaster ceilings at entries	incl	Megen Construction Estimate Rec. 1-31 (Div 10)		\$900				
133	CID3 Add wood sills at windows	incl	Megen Construction Estimate Rec. 1-31 (Div 4)		\$2,500				
134	CID3 Additional Bathroom Accessories		Megen Construction Estimate Rec. 1-31 (Div 4)						
135	CID3 Additional Bathroom Partitions		Megen Construction Estimate Rec. 1-31 (Div 4)						
136	CID3 change wall materials to split face CMU (cement masonry unit)	incl	Megen Construction Estimate Rec. 1-31 (Div 4)						
137	CID3 change wall widths as shown	incl	Megen Construction Estimate Rec. 1-31 (Div 4)						
138	CID3 increase wall length	incl	Megen Construction Estimate Rec. 1-31 (Div 4)						
139	CID3 Reuse existing doors	incl	Megen Construction Estimate Rec. 1-31 (Div 8)		\$3,300				
140	CID3 Revise ceilings based on revised wall layouts	incl	Megen Construction Estimate Rec. 1-31 (Div 9)						
141	CID3 Revise existing building framing to add double doors to west wall	incl	Megen Construction Estimate Rec. 1-31 (Div 5)		\$990				
142	CID3 Revise flooring costs based on revised wall locations/layouts	incl	Megen Construction Estimate Rec. 1-31 (Div 9)						
143	CID3 Revise structural steel modifications based on structural analysis	\$14,500	Megen Construction Estimate Rec. 1-31 (Div 5)		\$14,500				
144	CID3 Revise walls based on revised wall layouts	incl	Megen Construction Estimate Rec. 1-31 (Div 9)						
145	CID3 Revised painting based on revised wall layouts, added doors, etc.	incl	Megen Construction Estimate Rec. 1-31 (Div 9)						
146	CID6 Add Signage (wall lettering)	\$200	Megen Construction Estimate Rec. 1-31 (Div 9)		\$200				
147	CID6 Install Owner supplied plaque	\$200	Megen Construction Estimate Rec. 1-31 (Div 9)		\$200				
148	CID7 Flagpoles	\$10,354	Megen Construction Estimate Rec. 1-31 (Div 10)		\$10,354				
149	1/2" WALL PLYWOOD SHEETING @ EXHIBIT WALLS	\$8,500	Megen Construction Estimate Rec. 1-31 (Div 6)		\$8,500				
150	CID3 Delete plywood paneling on Display walls	\$4,434	Megen Construction Estimate Rec. 1-31 (Div 6)		\$4,434				
151	Add 1 borrowed light frame	\$900	Megen Construction Estimate Rec. 1-31 (Div 8)		(\$8,500)				
152	Add access panel in Room 006	incl	Megen Construction Estimate Rec. 1-31 (Div 8)		\$900				
153	Add double width frame, 2 doors and 2 sets of hardware to west wall	\$2,500	Megen Construction Estimate Rec. 1-31 (Div 10)		\$2,500				
154	Add Glazing	\$290	Megen Construction Estimate Rec. 1-31 (Div 8)		\$290				
155	Interior Sliding Glass Wall	\$29,700	Megen Construction Estimate Rec. 1-31 (Div 8)		\$29,700				
156	Delete interior sliding glass wall	(\$29,700)	Megen Construction Estimate Rec. 1-31 (Div 8)		(\$29,700)				
157	Operable Wall	\$23,720	Megen Construction Estimate Rec. 1-31 (Div 10)		\$23,720				
158	CID3 Delete operable wall	(\$23,720)	Megen Construction Estimate Rec. 1-31 (Div 10)		(\$23,720)				
159	Recessed Ceiling Mounted projection screen	incl	Megen Construction Estimate Rec. 1-31 (Div 15)						
160	Relocate Overhead Door	\$8,000	Megen Construction Estimate Rec. 1-31 (Div 8)		\$8,000				
161	Revise Curtain Wall System to comply with DOE Security Standards	\$29,400	Megen Construction Estimate Rec. 1-31 (Div 8)		\$29,400				
162	WD door/frame/hardware 3070	\$3,840	Megen Construction Estimate Rec. 1-31 (Div 8)		\$3,840				
163	WD door/frame/hardware 6070	\$7,500	Megen Construction Estimate Rec. 1-31 (Div 8)		\$7,500				
	Interior Totals	\$516,994							
	2.3 Mechanical Systems								
164	Fire Protection	\$17,700	Megen Construction Estimate Rec. 1-31(Div 15)		\$17,700				
165	Plumbing	\$113,000	Megen Construction Estimate Rec. 1-31(Div 15)		\$113,000				
166	HVAC	\$289,000	Megen Construction Estimate Rec. 1-31(Div 15)		\$289,000				
167	Geothermal System	\$126,691	Megen Construction Estimate Rec. 1-31(Div 15)		\$126,691				
168	Third Party Commissioning - Fundamental	\$16,140	Megen Construction Estimate Rec. 1-31(Div 15)		\$16,140				
169	Third Party Commissioning - Enhanced	\$18,360	Megen Construction Estimate Rec. 1-31(Div 15)		\$18,360				
171	CID1 Investigate and determine cause of low water pressure	\$8,160	Megen Construction Estimate Rec. 1-31(Div 15)		\$8,160				
172	CID3 Add bathroom fixtures	\$0	Megen Construction Estimate Rec. 1-31(Div 15)		\$0				
173	CID7 Move entry point to mechanical room	\$4,000	Megen Construction Estimate Rec. 1-31(Div 15)		\$4,000				
	Mechanical Totals	\$593,051							
	2.4 Electrical Systems								
174	Electrical	\$185,500	Megen Construction Estimate Rec. 1-31 (Div 16)		\$185,500				
175	Fire Alarm	\$15,000	Megen Construction Estimate Rec. 1-31 (Div 16)		\$15,000				
	Electrical Total	\$200,500							

Fernald Preserve Visitors Center

Estimated Total Project Cost Update

	Full Design Implementation	Estimated Cost	Source Document	Stoller Costs	Megen Costs	URS Costs	UC Costs	Kolar Costs	Harlan Costs
3	Wastewater - Blotwetland								
176	Conceptual Design	\$14,645	Due to acceleration and design unknowns, URS has been directed to proceed directly from conceptual design to final design and is working under a T&M basis not to exceed original proposal			\$14,645			
177	90% Design	\$11,155				\$11,155			
178	90% Design	\$6,090				\$6,090			
179	Final Design	\$3,820				\$3,820			
180	Construction Support	\$22,875				\$22,875			
181	Mobilization/Demobilization	\$9,885	URS pricing is approximate. Final pricing will be provided at final design. Final pricing will be inclusive of Stoller, and OEPA comments on preliminary design.			\$9,885			
182	Pre-Construction	\$7,180				\$7,180			
183	Septic Tank Installation (4,000 gal)	\$14,360				\$14,360			
184	SSE Wetland	\$55,313				\$55,313			
185	SSE Wetland	\$37,152				\$37,152			
186	Additional Construction Items	\$0				\$0			
187	Office & Site Support	\$71,220				\$71,220			
188	Excavation of 12" outlet pipe	\$0				\$0			
189	Force Main	\$16,000	Additional estimate for force main as gravity flow system originally proposed is not possible due to site topography			\$16,000			
190	Backfill 12" outlet pipe	\$0				\$0			
191	Installation of drainage swales	\$0				\$0			
192	Installation of vegetated ditch	\$0				\$0			
193	Construction of berms in wetland	\$0				\$0			
	Blotwetlands Total	\$269,695							
4	Ecological Landscaping/Hardscape								
194	Remove Gravel & Regrade	\$10,000	Stoller Estimate, Megen Includes All Sidewalk Grading	\$10,000					
195	Parking Lot Lighting	\$0	Included in Megen 90% estimate	\$0					
196	Stripe Parking Lot	\$5,000	Stoller Estimate. Work will be coordinated with other site road striping	\$5,000					
197	Concrete Walk from Parking (3800 sf)	\$0	Included in Megen estimate	\$0					
198	Light Walkway from Bldg to Parking	\$0	Included in Megen estimate	\$0					
199	Cold War Garden Allowance	\$5,000	Stoller allowance for Cold War Garden Plants	\$5,000					
200	Tree Allowance	\$10,000	Stoller allowance for Trees Along Paths	\$10,000					
201	Misc Planting/Perennial Allowance	\$10,000	Stoller allowance for Plantings Along Sidewalk	\$10,000					
202	Flag Pole (3)	\$0	Included in Megen 90% Estimate	\$0					
203	Handicap/Eco-Preference Parking Signage	\$0	To be included with Other Site Signage	\$0					
204	Handicap Access Ramps (2)	\$0	Included in Megen Estimate	\$0					
205	Landscaping Electric	\$0	Included in Megen Estimate	\$0					
	Ecological Landscaping/Hardscape Total	\$40,000							
5	Exterior Utilities (combo - design, install and/or burial)								
206	Bury Power (Remove 6 Poles)	\$0	Included in Megen Estimate						
207	Telecom/Fiber to FPVC	\$0	Included in Megen Estimate						
208	Upgrade Water Pressure for Fire Suppression (install pump)	\$70,000	Stoller Estimate Based on Previous Monarch Pump Quote	\$70,000					
209	CID1 remove overhead power lines/poles and associated equipment	\$118,340	Megen Construction 90% Estimate Rec. 1-14 (Div 16)		\$118,340				
210	CID1 provide new under ground electrical service from last pole to FPVC	incl	Megen Construction 90% Estimate Rec. 1-14 (Div 16)						
211	CID1 provide 25 pair copper telephone service to FPVC from CWAAT	\$70,570	Megen Construction 90% Estimate Rec. 1-14 (Div 16)		\$70,570				
212	CID2 Additional lighting per UC Design	\$100,470	Megen Construction 90% Estimate Rec. 1-14 (Div 16)		\$100,470				
213	CID2 Unistut grid system	\$43,916	Megen Construction 90% Estimate Rec. 1-14 (Div 16)		\$43,916				
214	CID7 Add lighting to walks between parking lots and building	\$19,000	Megen Construction 90% Estimate Rec. 1-14 (Div 16)		\$19,000				
215	CID7 Add lighting to east end of parking lot	incl	Megen Construction 90% Estimate Rec. 1-14 (Div 16)						
216	CID8 Access Control System (Security system)	\$12,500	Megen Construction 90% Estimate Rec. 1-14 (Div 16)		\$12,500				
217	CID8 Intrusion Detection System (Security system)	\$10,508	Megen Construction 90% Estimate Rec. 1-14 (Div 16)		\$10,508				

Fernald Preserve Visitors Center

Estimated Total Project Cost Update

Full Design Implementation		Estimated Cost	Source Document	Stoller Costs	Megen Costs	URS Costs	UC Costs	Kolar Costs	Harlan Costs
Exterior Utilities (combo - design, install and/or burial) Total		\$445,304							
6 IT / Telecom									
218	Voice and Data (Cabling)	\$9,000	Megen Construction 90% Estimate Rec. 1-14 (Div 16)		\$9,000				
219	Additional Phone/Data Jacks	\$4,800	Internal Stoller Estimate	\$4,800					
220	Network Equipment	\$6,000	Internal Stoller Estimate	\$6,000					
221	Phone Punchdown and Configuration	\$1,000	Internal Stoller Estimate	\$1,000					
222	Phone Patch Panel	\$200	Internal Stoller Estimate	\$200					
223	Desktop Computers (4)	\$6,000	Internal Stoller Estimate	\$6,000					
224	Laptop Computers (2)	\$3,000	Internal Stoller Estimate	\$3,000					
225	AV for Meeting Room	\$145,000	Megen Construction 90% Estimate Rec. 1-14 (Div 16)		\$145,000				
226	AV for Media Room	\$40,000	Megen Construction 90% Estimate Rec. 1-14 (Div 16)		\$40,000				
227	CID8 Delete original AV budget	\$185,000	Megen Construction 90% Estimate Rec. 1-14 (Div 16)		(\$185,000)				
228	Closed Circuit Television (CCTV)	\$30,000	Megen Construction 90% Estimate Rec. 1-14 (Div 16)		\$30,000				
229	CID8 AV Changes - Superseded by CID 8	incl	Megen Construction 90% Estimate Rec. 1-14 (Div 16)						
230	CID8 distributed Speech/Public Access-Furnished and Installed	\$10,009	Megen Construction 90% Estimate Rec. 1-14 (Div 16)		\$10,009				
231	CID8 Add Sub-Wooder In Multi-Purpose Room	\$2,240	Megen Construction 90% Estimate Rec. 1-14 (Div 16)		\$2,240				
232	Add Revised AV Design Component	\$50,000	Estimate Based on Conversation with Megen AV Subcontractor	\$50,000					
FPVC Multimedia and IT Needs									
233	Nature and Native Sounds	\$360	Stoller to Purchase Hardware. Estimate Provided by UC	\$360					
234	Eminent Domain Stories	\$3,870	Stoller to Purchase Hardware. Estimate Provided by UC	\$3,870					
235	Trinity Explosion	\$3,715	Stoller to Purchase Hardware. Estimate Provided by UC	\$3,715					
236	Fifties Duck and Cover	\$905	Stoller to Purchase Hardware. Estimate Provided by UC	\$905					
237	Construction Sequence	\$1,270	Stoller to Purchase Hardware. Estimate Provided by UC	\$1,270					
238	Plant Operations	\$10,950	Stoller to Purchase Hardware. Estimate Provided by UC	\$10,950					
239	Beeper and Lab Environment Sound	\$0	Item Deleted From Scope	\$0					
240	Contamination Media	\$3,890	Stoller to Purchase Hardware. Estimate Provided by UC	\$3,890					
241	Demolition Sequence	\$2,720	Stoller to Purchase Hardware. Estimate Provided by UC	\$2,720					
IT / Telecom Total		\$149,929							
7 Furnishings & Misc.									
242	Office (Executive Chairs) (6)	\$2,472	Quote from Loth 9/14/07	\$2,472					
243	Guest Chairs (8)	\$2,388	Quote from Loth 9/14/07	\$2,388					
244	Event Chairs (100)	\$12,481	Quote from Loth 9/14/07	\$12,481					
245	Event Chairs (50)	\$13,117	Quote from Loth 9/14/07	\$13,117					
246	Meeting Room Chairs (16)	\$3,162	Quote from Loth 9/14/07	\$3,162					
247	Manager Offices (2)	\$9,263	Quote from Loth 9/14/07	\$9,263					
248	Support Offices (2)	\$10,697	Quote from Loth 9/14/07	\$10,697					
249	Misc. Furnishings	\$11,625	Quote from Loth 9/14/07	\$11,625					
250	Labor/Delivery/Install	\$12,993	Quote from Loth 9/14/07	\$12,993					
251	Design Service	\$2,000	Quote from Loth 9/14/07	\$2,000					
252	Aggregate Furnishings LEED Point(s)	\$2,500	Megen Construction 90% Estimate Rec. 1-14 (Div 11)		\$2,500				
253	COMMERCIAL GRADE REFRIGERATOR	3,400	Megen Construction 90% Estimate Rec. 1-14 (Div 11)		(\$2,500)				
254	CID3 Delete refrigerator	\$3,400	Megen Construction 90% Estimate Rec. 1-14 (Div 11)		\$3,400				
255	COMMERCIAL GRADE ICE-MAKER & BIN	3,400	Megen Construction 90% Estimate Rec. 1-14 (Div 11)		(\$3,400)				
256	CID3 Delete icemaker	\$80,198	Megen Construction 90% Estimate Rec. 1-14 (Div 11)		(\$3,400)				
Furnishings & Misc. Total		\$80,198							
8 Project Support/Management									
257	Project Manager Affairs (27 wks) (IAE)	\$12,160	Stoller Estimate	\$12,160					

Fernald Preserve Visitors Center

Estimated Total Project Cost Update

	Full Design Implementation	Estimated Cost	Source Document	Stoller Costs	Megen Costs	URS Costs	UC Costs	Kolar Costs	Harlan Costs
258	Project Manager Rental Car (27 wks), (JAE)		Stoller Estimate						
259	Project Manager Lodging (7 months)		Stoller Estimate						
260	Project Manager Per Diem	\$6,750	Stoller Estimate	\$6,750					
261	Procurement Airfare	\$4,000	Stoller Estimate	\$4,000					
262	Procurement Rental Car	\$1,000	Stoller Estimate	\$1,000					
263	Procurement Lodging	\$0	Stoller Estimate	\$0					
264	Procurement Per Diem	\$1,000	Stoller Estimate	\$1,000					
265	Project Integrator (ML 679 hr)		Stoller Estimate						
266	Project Manager (JAE 1358 hr)		Stoller Estimate						
267	Project Controls (DS 216 hr)		Stoller Estimate						
268	Procurement Support (RS 385 hr)		Stoller Estimate						
268A	Project Manager MGR 1 (GG 384 hr)		Stoller Estimate						
268B	Project Engineer ENE 5 (RR - 80 hr, MM 144 hr)		Stoller Estimate						
268C	Construction Inspector ENE 5 (RS - 800 hr)		Stoller Estimate						
268D	Project Coordinator STE4 (ML - 200 additional)		Stoller Estimate						
268E				\$0					
268F	Construction Inspector Airfare (8 @ \$500)	\$4,000	Stoller Estimate	\$4,000					
268G	Construction Inspector Rental Car (20 wk \$200/wk)	\$4,000	Stoller Estimate	\$4,000					
268H	Construction Inspector Lodging (120 days * \$104/day)	\$12,480	Stoller Estimate	\$12,480					
268I	Construction Inspector Per Diem (120 days * \$54/day)	\$6,480	Stoller Estimate	\$6,480					
268J									
	Project Support/Management Total	\$372,762							
9	Exhibit Design								
269	University of Cincinnati DAAP	\$74,000	John Hancock (UC) estimate of UC charges (FY08 shown only)				\$74,000		
270	Kolar Design	\$49,000						\$49,000	
	Exhibit Design Total	\$123,000							
10	Exhibit Fabrication/Installation								
271	Exhibit Area Allowance								
272	Graphic Panels		Individual Estimates Now Included in Line 284A				\$0		
273	Transparent Panels (Ecoresin)		Individual Estimates Now Included in Line 284A				\$0		
274	Wall Murals		Individual Estimates Now Included in Line 284A				\$0		
275	Overhead Fabric		Individual Estimates Now Included in Line 284A				\$0		
276	Wayfinding and signage		Individual Estimates Now Included in Line 284A				\$0		
277	Floor-mounted stands		Individual Estimates Now Included in Line 284A				\$0		
278	Casework		Individual Estimates Now Included in Line 284A				\$0		
279	Multimedia (GERHAS) Development)	\$105,300	John Hancock (UC) Jan 24 e-mail				\$105,300		
280	Graphics Development		Individual Estimates Now Included in Line 284A				\$0		
281	Finishes		Individual Estimates Now Included in Line 284A				\$0		
282	Furnishing		Individual Estimates Now Included in Line 284A				\$0		
283	Allowances		Individual Estimates Now Included in Line 284A				\$0		
284	Lighting Control, design and setting	\$12,000	NTE estimate from Ericka Hedgecock (UC)				\$12,000		
284A	Fabricate and install Exhibits	\$251,404	Harlan Graphics Notice of Award						\$251,404
284B	Allowance for additional lighting controls	\$18,000	Stoller Internal Allowance						\$18,000
	Exhibit Fabrication/Installation Total	\$386,794							
285	Megen General Conditions (Original Contract)	\$144,870							
286	Megen Fee (Original Contract)	\$98,940							

Fernald Preserve Visitors Center

Estimated Total Project Cost Update

	Full Design Implementation	Estimated Cost	Source Document	Stoller Costs	Megen Costs	URS Costs	UC Costs	Kolar Costs	Harlan Costs
287					\$0				
288	CID.1 Additional Engineering, Project Management and Project Oversight	\$6,880			\$6,880				
289	CID.2 Additional Engineering, Project Management and Project Oversight	\$10,840			\$10,840				
290	CID.3 Additional Engineering, Project Management and Project Oversight	\$9,060			\$9,060				
291	CID.4 Additional Engineering, Project Management and Project Oversight	\$90			\$90				
292	CID.5 Additional Engineering, Project Management and Project Oversight	\$0			\$0				
293	CID.6 Additional Engineering, Project Management and Project Oversight	\$0			\$0				
294	CID.7 Additional Engineering, Project Management and Project Oversight	\$13,800			\$13,800				
295	CID.8 Additional Engineering, Project Management and Project Oversight	\$3,480			\$3,480				
296	Other... Additional Engineering, Project Management and Project Oversight	\$48,360			\$48,360				
297					\$0				
298	CID1 Additional General Conditions	\$14,570			\$14,570				
299	CID2 Additional General Conditions	\$15,722			\$15,722				
300	CID3 Additional General Conditions	\$0			\$0				
301	CID4 Additional General Conditions	\$90			\$90				
302	CID5 Additional General Conditions	\$0			\$0				
303	CID6 Additional General Conditions	\$0			\$0				
304	CID7 Additional General Conditions	\$8,071			\$8,071				
305	CID8 Additional General Conditions	\$0			\$0				
306	Other	\$9,226			\$9,226				
307					\$0				
308	CID.1 Fee	\$8,909			\$8,909				
309	CID.2 Fee	\$9,613			\$9,613				
310	CID.3 Fee	\$0			\$0				
311	CID.4 Fee	\$55			\$55				
312	CID.5 Fee	\$0			\$0				
313	CID.6 Fee	\$0			\$0				
314	CID.7 Fee	\$4,935			\$4,935				
315	CID.8 Fee	\$5,641			\$5,641				
316	Other	\$5,641			\$5,641				
	Megen General Conditions, E, PM & PO, and Fee	\$400,578							
	Subtotal	\$4,607,016							
	Overhead (30%) Prior to Feb 25	\$180,000	Estimated \$600k work performed FY 08 pre Feb 25	\$763,390	\$3,082,137	\$269,695	\$191,300	\$49,000	\$251,494
	Overhead (8%) under LMS contract	\$320,561							
	Total Overhead	\$500,561							
	Total FPVC Costs (Direct and Overhead)	\$5,107,578							

FY 07 Costs
 FY07 EAC \$521,000
 Reduction to account for Megen FY07 costs included above **(\$60,000)**

Grand Total FPVC FY07 & FY08 Costs \$5,548,578

Item No.	FPVC \$5.6M Total Budget Item	Element	FPVC Baseline Estimate	LRH 90% Estimate Assessment	Net Funding Delta
1	Building Design (A/E Services)		\$329,900	\$730,068	\$400,168
2	Building Construction	Building 94K Exterior Modifications Electrical Systems Interior Construction and Finish Mechanical Systems	\$544,188 \$216,500 \$407,060 \$538,850 \$1,706,598	\$507,071 \$200,500 \$488,900 \$584,891 \$1,781,362	(\$37,117) (\$16,000) \$81,840 \$46,041 \$74,764
3	Wastewater - Biowetland		\$237,482	\$269,695	\$32,213
4	Eco/Landscaping/Hardscape		\$181,500	\$187,904	\$6,404
5	Exterior Utilities		\$266,910	\$445,304	\$178,394
6	IT / Telecom		\$194,400	\$149,929	(\$44,471)
7	Furnishings & Misc.		\$80,198	\$80,198	\$0
8	Project Support/Management		\$230,921	\$372,762	\$141,841
9	Exhibit Design		\$74,000	\$123,000	\$49,000
10	Exhibit Fabrication/Installation		\$700,000	\$386,794	(\$313,206)
11	Stoller Markup		\$1,200,573	\$581,694	(\$618,879)
12	Prior Expenditures-FY-07		\$400,000	\$521,000	\$121,000
13	Prior Expenditures-FY-07		\$0	\$0	\$0
Grand Total			\$5,602,482	\$5,629,710	\$27,228

Item No.	FPVC \$5.6M Total Budget Item	Element	FPVC Baseline Estimate	Stoller 90% Estimate Assessment	Net Funding Delta
1	Building Design (A/E Services)		\$329,900	\$810,068	\$480,168
2	Building Construction	Building 94K Exterior Modifications	\$544,188	\$507,071	(\$37,117)
		Electrical Systems	\$216,500	\$200,500	(\$16,000)
		Interior Construction and Finish	\$407,060	\$488,900	\$81,840
		Mechanical Systems	\$538,850	\$584,891	\$46,041
	Building Construction Sum		\$1,706,598	\$1,781,362	\$74,764
3	Wastewater - Biowetland		\$237,482	\$269,695	\$32,213
4	Eco/Landscaping/Hardscape		\$181,500	\$187,904	\$6,404
5	Exterior Utilities		\$266,910	\$445,304	\$178,394
6	IT / Telecom		\$194,400	\$149,929	(\$44,471)
7	Furnishings & Misc.		\$80,198	\$80,198	\$0
8	Project Support/Management		\$230,921	\$372,762	\$141,841
9	Exhibit Design		\$74,000	\$123,000	\$49,000
10	Exhibit Fabrication/Installation		\$700,000	\$386,794	(\$313,206)
11	Stoller Markup		\$1,200,573	\$500,561	(\$700,012)
12	Prior Expenditures-FY-07		\$400,000	\$521,000	\$121,000
13	Prior Expenditures-FY-07		\$0	(\$80,000)	(\$80,000)
Grand Total			\$5,602,482	\$5,548,577	(\$53,905)

Item No.	FPVC \$5.6M Total Budget Item	Item	Description	Line Item Number \$5.6M Spreadsheet	Line Item Number 90% Baseline Estimate	FPVC Baseline Estimate	90% Estimate Assessment	Net Funding Delta
1	Building Design (AVE Services)	Construction Inspection E&D, PM, PO	Construction Oversight Additional Engineering, Project Management, and Project Oversight	1.5	5	\$73,400	\$73,500	\$100
					230		\$9,060	\$9,060
					231		\$80	\$80
					232		\$0	\$0
					233		\$0	\$0
					234		\$13,800	\$13,800
					235		\$3,480	\$3,480
					236		\$48,360	\$48,360
					288		\$6,880	\$6,880
					289		\$10,840	\$10,840
		Engineering/Design	30% Design	1.1	1	\$98,600	\$98,600	\$0
			60% Design	1.2	2	\$88,740	\$88,740	\$0
			90% Design	1.3	3	\$44,370	\$44,370	\$0
			Final Design	1.4	4	\$14,790	\$14,790	\$0
			Landscape Design	4.1	6	\$10,000	\$10,000	\$21,000
			Design Changes Related to Solstice Wall, Etc.		7	\$0	\$14,430	\$14,430
			Incorporate U of C Design into Construction Documents		8	\$0	\$7,000	\$7,000
			Incorporate Site Elements into Design		9	\$0	\$3,000	\$3,000
			Soils Engineering for Solstice Wall Location		19	\$0	\$6,000	\$6,000
			Engineering Layout Work for Revised Solstice Wall Location		21	\$0	\$4,200	\$4,200
			Locate Utilities Outside Building and Incorporate into Project Documents		23	\$0	\$1,200	\$1,200
			TBD (Item now quantified in Line Item 9)		119	\$0	\$0	\$0
			Revise Structural Steel Modifications Based on Structural Analysis		143	\$14,500	\$14,500	\$0
			30% Design Accrual Adjustment- FY07		-		(\$60,000)	(\$60,000)
		Fees	Megan Fee (Original Contract)		286	\$95,940	\$95,940	\$0
			Other		254	\$5,641	\$5,641	\$0
			CID 1 Fee		246	\$8,909	\$8,909	\$0
			CID 2 Fee		247	\$9,613	\$9,613	\$0
			CID 3 Fee		248	(\$6,846)	(\$6,846)	\$0
			CID 4 Fee		249	\$55	\$55	\$0
			CID 5 Fee		250	\$0	\$0	\$0
			CID 6 Fee		251	\$0	\$0	\$0
			CID 7 Fee		252	\$4,935	\$4,935	\$0
			CID 8 Fee		253	(\$5,718)	(\$5,718)	\$0
		General Conditions	Megan General Conditions (Original Contract)		285	\$144,870	\$144,870	\$0
			CID 1 Additional General Conditions		238	\$14,570	\$14,570	\$0
			CID 2 Additional General Conditions		239	\$15,722	\$15,722	\$0
			CID 3 Additional General Conditions		240	\$0	\$0	\$0
			CID 4 Additional General Conditions		241	\$90	\$90	\$0
			CID 5 Additional General Conditions		242	\$0	\$0	\$0
			CID 6 Additional General Conditions		243	\$0	\$0	\$0
			CID 7 Additional General Conditions		244	\$8,071	\$8,071	\$0
			CID 8 Additional General Conditions		245	\$0	\$0	\$0
			Other		-	\$9,226	\$9,226	\$0
		Water Pressure Investigation	Investigate & Determine Cause of Low Water Pressure		171	\$8,160	\$8,160	\$0
1	Sum					\$329,900	\$730,068	\$400,168

Item No.	FPVC \$5.6M Total Budget Item	Item	Description	Line Item Number \$5.6M Spreadsheet	Line Item Number 90% Estimate	FPVC Baseline Estimate	90% Estimate Assessment	Net Funding Delta		
2	Building Construction	Cabinetry & Millwork	Cabinetry & Millwork	2.2.3	85	\$48,000	\$52,000	\$4,000		
			Delete casework in Room 010	-	86		(\$10,000)	(\$10,000)		
		Concrete Footings	Delete casework in Room 014	-	87			(\$25,500)	(\$25,500)	
			Add Wood Sills at Windows	-	133			\$0	\$0	
			Concrete Footing at Solstice Wall	2.1.2	33	\$4,000	\$5,250	\$1,250	\$1,250	
		Demolition		Pour Footings (including re-steel, concrete, and insulation) at Revised Entry Local	-	65-68	\$0	\$500	\$500	\$500
				Revised Solstice Wall Footings Based on Soil Analysis	-	69	\$0	\$10,000	\$10,000	\$10,000
				Revised Canopy Footings Based on Soil Analysis	-	70	\$0	\$15,000	\$15,000	\$15,000
				Selective Demolition: Remove Doors, Loading Dock, Etc.	2.1.1	10	\$61,390	\$47,500	(\$13,890)	(\$13,890)
				Sawcut Accent Path Lines	-	11	\$0	\$0	\$0	\$0
				Temporary Weather Protection	-	12	\$0	\$5,000	\$5,000	\$5,000
				Hauling Building Debris	-	13	\$0	\$1,800	\$1,800	\$1,800
				Sawcut and Remove SOG at 2 Entry Locations	-	16	\$0	\$3,360	\$3,360	\$3,360
				Sawcut and Remove Foundation Walls at 2 Entry Locations	-	17	\$0	\$1,620	\$1,620	\$1,620
				Hand Cut and Expose Structural Elements in SOG	-	22	\$0	\$1,500	\$1,500	\$1,500
		Doors/Windows		Sawcut Trenches in Floors Rooms 010 and 014 for Communications Equipment	-	32	\$0	\$980	\$980	\$980
				Aluminum Curtain Wall (2947 sf)	2.1.23	58	\$170,928	\$191,560	\$20,632	\$20,632
				Emergency Egress Doors (6)	2.1.20	-	\$8,160	\$0	(\$8,160)	(\$8,160)
				Front Entry Doors (4 pair)	2.1.21	57	\$25,600	\$22,400	(\$3,200)	(\$3,200)
				Interior Door to DOE Office Area	2.2.6	-	\$2,800	\$0	(\$2,800)	(\$2,800)
Interior/Office Doors (16)	2.2.5			-	\$21,600	\$0	(\$21,600)	(\$21,600)		
Skylights (0)	2.1.24			-	\$0	\$0	\$0	\$0		
Windows in Offices (64 sf)	2.1.22			93	\$4,700	\$4,200	(\$500)	(\$500)		
Revise Curtain Wall System Based on Revised Solstice Wall Location	-			59		(\$30,465)	(\$30,465)	(\$30,465)		
Skylights	-			60		\$15,000	\$15,000	\$15,000		
		Delete Motorized Skylights	-	61		(\$15,000)	(\$15,000)	(\$15,000)		
		Interior/Office Doors HM Doors/Frames/Hardware 3070 (6 EA)	-	89	\$7,200	\$7,200	\$7,200	\$7,200		
		WD Doors/Frames/Hardware 3070 (15 EA)	-	90	\$19,200	\$19,200	\$19,200	\$19,200		
		WD Doors/Frames/Hardware 6070 (1 EA)	-	91	\$2,500	\$2,500	\$2,500	\$2,500		
		HM Doors/Frames/Hardware 3070	-	92		(\$8,000)	(\$8,000)	(\$8,000)		
		Add Dbl Width Frame, 2 Doors and w sets Hardware to West Wall	-	128		\$0	\$0	\$0		
		Add Entry Control Hardware	-	129		\$3,100	\$3,100	\$3,100		
		Add Frames, Doors, and Hardware in Room 010	-	131		\$0	\$0	\$0		
		Reuse Existing Doors	-	139		\$3,300	\$3,300	\$3,300		
		Add 1 Borrowed Light Frame	-	151		\$900	\$900	\$900		
		Add Double Width Frame, Doors, and 2 Sets of Hardware to West Wall	-	153		\$2,500	\$2,500	\$2,500		
		Add Glazing	-	154		\$290	\$290	\$290		
		Interior Sliding Glass Wall	-	155		\$29,700	\$29,700	\$29,700		
		Delete Interior Sliding Glass Wall	-	156		(\$29,700)	(\$29,700)	(\$29,700)		
		Operable Wall	-	157		\$23,720	\$23,720	\$23,720		
		Delete Operable Wall	-	158		(\$23,720)	(\$23,720)	(\$23,720)		
		Relocate Overhead Door	-	160		\$8,000	\$8,000	\$8,000		
		Revise Curtain Wall Ssystem to Comply with DOE Security Standards	-	161		\$29,400	\$29,400	\$29,400		
		Wood Door/Frame/Hardware 3070	-	162		\$3,840	\$3,840	\$3,840		
		Wood Door/Frame/Hardware 6070	-	163		\$7,500	\$7,500	\$7,500		

Item No.	Item	Description	Line Item Number \$5.6M Spreadsheet	Line Item Number 90% Baseline Estimate	FPVC Baseline Estimate	90% Estimate Assessment	Net Funding Delta
2	Building Construction	Earthwork/Grading	-	-	\$0	\$1,200	\$1,200
		Electrical	2.4.1	174	\$199,500	\$185,500	(\$14,000)
		Equipment	2.4.2	175	\$17,000	\$15,000	(\$2,000)
		Exhibits	2.2.28	116	\$2,400	\$2,000	(\$400)
		Fill	2.2.29	117	\$0	\$2,500	\$2,500
		Fire Protection	-	118	-	(\$2,500)	(\$2,500)
		Flooring	2.1.4	35	\$1,550	\$1,370	(\$180)
		Framing & Wall/Ceiling Finishes	2.3.1	164	\$20,000	\$17,700	(\$2,300)
		Insulation	2.2.9	96	\$4,310	\$4,000	\$4,000
		Masonry	2.2.10	97	\$13,560	\$11,970	(\$1,590)
		HVAC	2.2.11	98	\$3,810	\$3,810	\$0
		HVAC	-	120	-	\$25,000	\$25,000
		Masonry	-	142	-	\$0	\$0
		HVAC	HVAC	Misc Blocking	2.2.4	88	\$2,630
Mtl Stud, Insulate, Drywall, Acoustic Ceiling	2.2.7			94	\$204,430	\$183,430	(\$21,000)
Walls - Ceramic	2.2.12			99	\$13,890	\$12,070	(\$1,820)
Additional Walls per UC Design	-			121	-	\$22,210	\$22,210
Wall Type G	-			125	-	\$3,200	\$3,200
Add Plaster Ceilings at Entries	-			132	-	\$0	\$0
Revise Ceilings based on Revised Wall Layouts	-			140	-	\$0	\$0
Revise Existing Building Framing to Add Dbl Doors to West Wall	-			141	-	\$990	\$990
Revise Walls Based on Revised Wall Layouts	-			144	-	\$0	\$0
Revised Painting Based on Revised Wall Layouts, Added Doors, Etc.	-			145	-	\$0	\$0
1/2" Wall Plywood Sheeting at Exhibit Walls	-			149	-	\$8,500	\$8,500
Delete Plywood Paneling on Display Walls	-			150	-	(\$8,500)	(\$8,500)
Insulation	Insulation			Adder for Geothermal	2.3.6	167	\$47,000
		HVAC (Conventional Electric Heat/AC)	2.3.3	166	\$322,000	\$289,000	(\$33,000)
		Third Party Commissioning - Enhanced	2.3.5	169	\$20,750	\$18,380	(\$2,370)
		Third Party Commissioning - Fundamental	2.3.4	168	\$18,300	\$16,140	(\$2,160)
		Sound Rating (at offices)	2.2.8	95	\$10,350	\$9,160	(\$1,190)
		Add 2" Rigid Insulation to Exterior Frame Walls - Between Masonry	-	126	-	\$100	\$100
		4" Split Face Veneer	2.2.2	84	\$34,600	\$0	(\$34,600)
		8" & 4" Split Face Block Two Wythe -Ext	2.1.9	42	\$72,400	\$0	(\$72,400)
		Exterior Precast Cap	2.1.10	43	\$2,720	\$0	(\$2,720)
		Interior Precast Cap	2.2.1	83	\$3,390	\$0	(\$3,390)
		Wall Block Foundation	2.1.8	39	\$1,900	\$2,520	\$620
		Accent Wall 8" CMU and Cap-Ext	-	40	\$0	\$72,000	\$72,000
		Changes to Masonry Solslice Wall	-	41	-	(\$34,500)	(\$34,500)
Accent Wall CMU and Cap-Int	-	82	-	\$57,800	\$57,800		
Change Wall Materials to Split Face CMU	-	136	-	\$0	\$0		
Change Wall Width as shown	-	137	-	\$0	\$0		
Increase Wall Length	-	138	-	\$0	\$0		

Item No.	Item	Description	Line Item Number \$5.6M Spreadsheet	Line Item Number 90% Estimate	FPVC Baseline Estimate	90% Estimate	Net Funding Delta		
2	FPVC \$5.6M Total Budget Item Building Construction	Painting	2.2.13	100	\$19,200	\$15,500	(\$3,700)		
		Painting - Walls/Bulkhead/Ceiling	2.2.14	101	\$1,960	\$1,800	(\$160)		
				Painting - Wood Stain Doors	-	122	\$4,000	\$4,000	
				Paint Exposed Ductwork Over Exhibit Areas	-	123	\$4,500	\$4,500	
				Paint Exposed Vinyl Faced Insulation Over Exhibit Areas	-	123	\$113,000	\$2,200	
			Plumbing		2.3.2	165	\$110,800	\$113,000	\$2,200
				Add Bathroom Fixtures	-	172	\$0	\$0	
			Roof Decking		2.1.12	46	\$11,500	\$10,000	(\$1,500)
			Roof Drainage		2.1.18	55	\$1,200	\$1,000	(\$200)
			Roof Drainage Modifications		2.1.17	54	\$1,200	\$1,000	(\$200)
			Roof Modifications		2.1.17	54	\$1,200	\$1,000	(\$200)
			Roof Warranty		2.1.16	52	\$4,000	\$3,500	(\$500)
				Delete Roof Warranty	-	53	\$3,500	(\$3,500)	
			Sealants & Caulking		2.1.19	56	\$1,700	\$1,500	(\$200)
			Solar Shades		2.1.25	62	\$35,000	\$43,700	\$8,700
				Include Solar Shading System as a Component of Storefront	-	63	\$43,700	(\$43,700)	
				Solar Shading Add to Curtain Wall System	-	64	\$0	\$35,000	\$35,000
			Specialties		2.2.16	103	\$1,430	\$1,250	(\$180)
				Grab Bar (6)	2.2.20	107	\$690	\$600	(\$90)
				Locker Rm Bench (4 lf)	2.2.24	111	\$460	\$400	(\$60)
				Lockers (5)	2.2.23	110	\$580	\$500	(\$80)
				Mirrors (36 sf)	2.2.21	108	\$720	\$540	(\$180)
		Paper Tow Dispenser (5)	2.2.19	106	\$560	\$500	(\$60)		
		Recycling Tubs - Large (3)	2.2.26	114	\$750	\$600	(\$150)		
		Recycling Tubs - Medium (3)	2.2.25	113	\$350	\$300	(\$50)		
		Signage - Lettering	2.2.27	115	\$120	\$1,000	\$880		
		Soap Dispensers (5)	2.2.22	109	\$300	\$250	(\$50)		
		Toilet Partitions (4)	2.2.17	104	\$3,200	\$2,800	(\$400)		
		Toilet Tissue Dispenser (5)	2.2.18	105	\$280	\$250	(\$30)		
		Delete Locker Rm Bench (4 lf)	-	112	\$900	(\$400)			
		Additional Bathroom Accessories	-	134	\$900	\$900			
		Additional Bathroom Partitions	-	135	\$2,500	\$2,500			
		Add Signage (Wall Lettering)	-	146	\$200	\$200			
		Install Owner Supplied Plaque	-	147	\$200	\$200			
		Add Access Panel in Room 006	-	152	\$0	\$0			
	Structural Steel Framing		2.1.11	44	\$92,500	\$173,140	\$80,640		
		Column Relocation - East Wall	2.1.14	48	\$4,500	\$4,000	(\$500)		
		Misc. Metals for Framing	2.1.13	47	\$18,600	\$15,000	(\$3,600)		
		New Column - East Wall	2.1.15	50	\$5,600	\$5,000	(\$600)		
		Revisions to Front Canopy Design	-	45		(\$78,000)			
		Delete Column Relocation - East Wall	-	49		(\$4,000)			
		Delete New Column - East Wall	-	51		(\$5,000)			
		Structural Support for UC Walls	-	124		\$2,500			
		Add Diagonal Bracing Enclosed Dock Bay	-	127		\$0			
		Add Fluid Applied Air Barrier to Framed Perimeter Walls	-	130		\$0			
	T&M Protection Window Shading System		2.2.15	102	\$10,800	\$9,500	(\$1,300)		
		Interior Window Shading System	-	102	\$10,800	\$9,500	(\$1,300)		

Item No.	FPVC \$5.6M Total Budget Item	Item	Description	Line Item Number \$5.6M Spreadsheet	Line Item Number 90% Estimate	FPVC 90% Baseline Estimate	90% Estimate Assessment	Net Funding Delta
2	Building Construction	Pavement	6" Slab on Grade (at Truck Dock) Concrete Pad at Pedestrian Door Concrete Sidewalk Entry Patch Slabs Additional Gathering Area at South Entry Doors Replace Concrete in Trenches	2.1.5 2.1.7 2.1.3 2.1.6 -	36 38 34 37 75	\$9,940 \$1,020 \$2,880 \$1,200 \$10,350	\$8,800 \$900 \$2,500 \$1,000 \$1,386	(\$1,140) (\$120) (\$380) (\$200) \$1,386
2	Sum					\$17,065,588	\$1,781,362	\$74,764
3	Wastewater - Blowfield	Engineering/Design	60% Design 90% Design Conceptual Design Final Design Office & Site Support	3.2 3.3 3.1 3.4 3.12	177 178 176 179 187	\$11,155 \$6,090 \$14,645 \$3,820 \$71,220	\$11,155 \$6,090 \$14,645 \$3,820 \$71,220	\$0 \$0 \$0 \$0 \$0
		Overhead Sewage Treatment System Installation	Additional Construction Items Mobilization/Demobilization Pre-Construction Septic Tank Installation (4,000 gal) SF Wetland SSF Wetland Excavation of 12" Outlet Pipe Force Main Backfill 12" Outlet Pipe Installation of Drainage Swales Installation of Vegetated Ditch Construction of Berms in Wetland	3.11 3.6 3.7 3.8 3.10 3.9 - - - - - -	186 181 182 183 185 184 188 189 190 191 192 193	\$12,520 \$9,885 \$7,180 \$14,360 \$29,577 \$34,155 \$0 \$0 \$0 \$0 \$0 \$0	\$0 \$9,885 \$7,180 \$14,360 \$29,577 \$34,155 \$0 \$0 \$0 \$0 \$0 \$0	(\$12,520) \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0 \$0
3	Sum	Supervision & Inspection	Construction Support	3.5	180	\$22,875	\$22,875	\$0
4	Eco/Landscaping/Hardscape	Concrete Footings Demolition Earthwork/Grading	Cold War Garden Footer/Foundation Remove Existing Catch Basin West of Building - Plug Inlet/Outlet Pipe Remove Gravel & Regrade Remove Gravel Paved Area at South and West of Building Controlled Fill - Place Salvaged Stone in Low Area at West of Building Adjust Grades to Pour Sidewalks Adjust Grade for Proper Drainage	- - 4.2 - - -	80 26 194 24 25 30	\$0 \$0 \$10,000 \$0 \$0 \$0	\$0 \$500 \$10,000 \$1,250 \$0 \$2,500	\$0 \$500 \$0 \$1,250 \$0 \$2,500
		Electrical-Exterior	Landscape Electric Light walkway from Bldg to Parking Parking Lot Lighting Flagpoles	4.13 5.6 4.3 4.10	205 198 195 202	\$15,000 \$20,000 \$30,000 \$6,300	\$0 \$0 \$0 \$10,354	(\$15,000) (\$20,000) (\$30,000) (\$8,300)
		Flagpoles	Flagpoles	4.10	202	\$6,300	\$0	(\$6,300)
		Handicap Ramps Handicap Signage	Handicap Access Ramps (2) Handicap/Eco-Preference Parking Signage	4.12 4.11	204 203	\$3,200 \$2,100	\$0 \$0	(\$3,200) (\$2,100)
		Landscaping/Seeding	Cold War Garden Allowance Misc Planting/Perennial Allowance Tree Allowance Cold War Garden Landscape Topsoil and Seed 2' Band Around All Concrete Pavement and Handicap Parking	4.7 4.9 4.8 - -	199 201 200 27 29	\$20,000 \$10,000 \$20,000 \$0 \$0	\$5,000 \$10,000 \$10,000 \$1,000 \$0	(\$15,000) \$0 \$10,000 (\$1,000) \$0
3	Sum					\$237,482	\$269,895	\$32,213

Item No.	FPVC \$5.6M Total Budget Item	Item	Description	Line Item Number \$5.6M Spreadsheet	Line Item Number 90% Estimate	FPVC 90% Baseline Estimate	90% Estimate Assessment	Net Funding Delta
4	Ecol/Landscaping/Hardscape	Pavement	Concrete Walk from Parking (3800 sf)	4.5	197	\$39,900	\$0	(\$39,900)
			Stripe Parking Lot	4.4	196	\$5,000	\$5,000	\$0
			Asphalt Pavement		28	\$0	\$50,000	\$50,000
			Additional Concrete Pavement from Fire Exit Doors to Collection Areas		72		\$11,200	\$11,200
			Additional Concrete Pavement Exceeding Original Proposed Amount		73		\$0	\$0
			Walk at East Doors to Pond		74		\$11,300	\$11,300
			Walks from South Entry to Cold War Garden and Parking Lots		76		\$56,800	\$56,800
			Asphalt Pavement (Covered in Line 28)		77		\$0	\$0
			Stripe Asphalt Pavement		78		\$0	\$0
			Curb Stops		79		\$500	\$500
4 Sum						\$181,500	\$187,904	\$6,404
5	Exterior Utilities	Electrical-Exterior	Bury Power (Remove 6 Poles)	5.1	206	\$118,340	\$0	(\$118,340)
			Telecom/Fiber to FPVC	5.2	207	\$70,570	\$0	(\$70,570)
			Remove Overhead Power Lines, Poles and Associated Equipment		209		\$118,340	\$118,340
			Provide New UG Electrical Service from Last Pole to FPVC		210		\$0	\$0
			Provide 25 Pair Copper Telephone Service to FPVC from CWAAT		211		\$70,570	\$70,570
			Additional Lighting Per UC Design		212		\$100,470	\$100,470
			Unistrut System		213		\$43,916	\$43,916
			Add Lighting to Walks Between Parking Lots and Building		214		\$19,000	\$19,000
			Add Lighting to East End of Parking Lot		215		\$0	\$0
		Fire Protection	Upgrade Water Pressure for Fire Suppression	5.3	208	\$78,000	\$70,000	(\$8,000)
		Security	Access Control System - Security		216		\$12,500	\$12,500
			Intrusion Detection System - Security		217		\$10,508	\$10,508
5 Sum						\$266,910	\$445,304	\$178,394
6	IT / Telecom	AV Equipment	AV for Media Room	6.9	226	\$45,200	\$40,000	(\$5,200)
			AV for Meeting Room	7.8	225	\$114,000	\$145,000	\$31,000
			Recessed Ceiling Mounted Projection Screen		189		\$0	\$0
			Delete Original AV Budget		227		(\$185,000)	(\$185,000)
			Closed Circuit Television (CCTV)		228		\$30,000	\$30,000
			AV Changes superseded by CID 8		229		\$0	\$0
			Distributed Speech/Public Access-Furnished and Installed		230		\$10,009	\$10,009
			Add Sub-Woofer in Multi-Purpose Room		231		\$2,240	\$2,240
			Add Revised AV Design Component		232		\$50,000	\$50,000
			Eminent Domain Stories		234		\$3,870	\$3,870
			Trinity Explosion		235		\$3,715	\$3,715
			Fifiles Duck and Cover		236		\$905	\$905
			Construction Sequence		237		\$1,270	\$1,270
			Plant Operations		238		\$10,950	\$10,950
			Beeper and Lab Environment Sound		239		\$0	\$0
			Contamination Media		240		\$3,890	\$3,890
			Demolition Sequence		241		\$2,720	\$2,720
			Nature and Native Sounds		233		\$360	\$360
		Computers	Desktop Computers (4)	6.6	223	\$6,000	\$6,000	\$0
			Laptop Computers (2)	6.7	224	\$7,000	\$3,000	(\$4,000)
		Network	Additional Phone/Data Jacks	6.2	219	\$4,800	\$4,800	\$0
			Network Equipment	6.3	220	\$6,000	\$6,000	\$0
		Phones	Voice and Data (Cabling)	6.1	218	\$10,200	\$9,000	(\$1,200)
			Phone Patch Panel	6.5	222	\$200	\$200	\$0
			Phone Punchdown and Configuration	6.4	221	\$1,000	\$1,000	\$0
6 Sum						\$194,400	\$149,929	\$44,471

Item No.	FPVC \$5.6M Total Budget Item	Item	Description	Line Item Number \$5.6M Spreadsheet	Line Item Number Estimate	FPVC 90% Baseline Estimate	90% Estimate Assessment	Net Funding Delta			
7	Furnishings & Misc.	Chairs	Event Chairs (100)	7.3	244	\$12,481	\$12,481	\$0			
			Event Chairs (50)	7.4	245	\$13,117	\$13,117	\$0			
			Guest Chairs (8)	7.2	243	\$2,388	\$2,388	\$0			
			Meeting Room Chairs (16)	7.5	246	\$3,162	\$3,162	\$0			
			Office (Executive Chairs) (5)	7.1	242	\$2,472	\$2,472	\$0			
			Design Service	7.10	251	\$2,000	\$2,000	\$0			
			Commercial Grade Refrigerator	-	253	\$2,500	\$2,500	\$0			
			Delete Refrigerator	-	254	(\$2,500)	(\$2,500)	\$0			
			Commercial Grade Ice-Maker & Bin	-	255	\$3,400	\$3,400	\$0			
			Delete Commercial Grade Ice-Maker & Bin	-	256	(\$3,400)	(\$3,400)	\$0			
			Labor/Delivery/Install	7.9	250	\$12,993	\$12,993	\$0			
			Misc. Furnishings	7.8	249	\$11,625	\$11,625	\$0			
			Manager offices (2)	7.6	247	\$9,263	\$9,263	\$0			
Support offices (2)	7.7	248	\$10,697	\$10,697	\$0						
7 Sum						\$80,198	\$80,198	\$0			
8	Project Support & Management	Construction Inspection Overhead	Construction Inspector ENE 5 (RS - 800 hr)	-	268C		\$58,064	\$58,064			
			Procurement Airfare	8.5	261	\$4,000	\$4,000	\$0			
			Procurement Lodging	8.7	263	\$0	\$0	\$0			
			Procurement Per Diem	8.8	264	\$1,000	\$1,000	\$0			
			Procurement Rental Car	8.6	262	\$1,000	\$1,000	\$0			
			Procurement Support (RS 385 hr)	8.12	268	\$32,062	\$32,062	\$0			
			Project Controls (DS 216 hr)	8.11	267	\$7,882	\$7,882	\$0			
			Project Integrator (ML 679 hr)	8.9	265	\$37,833	\$37,833	\$0			
			Project Manager (JAE 1358 hr)	8.10	266	\$113,094	\$113,094	\$0			
			Project Manager MGR 1 (GG 384 hr)	-	268A		\$25,728	\$25,728			
			Project Engineer ENE 5 (RR - 80 hr, MM 144 hr)	-	268B		\$20,481	\$20,481			
			Project Coordinator STE 4 (ML - 200 additional)	-	268D		\$10,608	\$10,608			
			Project Manager Per Diem	8.4	260	\$6,750	\$6,750	\$0			
			Project Manager Airfare (27 wks)	8.1	257	\$12,150	\$12,150	\$0			
			Project Manager Rental Car (27 wks)	8.2	258	\$6,750	\$6,750	\$0			
			Project Manager Lodging (7 months)	8.3	259	\$8,400	\$8,400	\$0			
			Construction Inspector Airfare (8 @ \$500)	-	268F		\$4,000	\$4,000			
			Construction Inspector Rental Car (20 Wk @ \$200/Wk)	-	268G		\$4,000	\$4,000			
			Construction Inspector Lodging (120 days @ \$104/day)	-	268H		\$12,480	\$12,480			
			Construction Inspector PerDiem (120 days @ \$54/day)	-	268I		\$6,480	\$6,480			
			8 Sum						\$230,921	\$372,762	\$141,841
			9	Exhibit Design	Engineering/Design	Exhibit Design	9.1	269	\$74,000	\$74,000	\$0
						9 Sum					\$74,000
9 Sum						\$74,000	\$123,000	\$49,000			

Item No.	FPVC \$5.6M Total Budget Item	Item	Description	Line Item Number \$5.6M Spreadsheet	Line Item Number 90% Baseline Estimate	FPVC 90% Baseline Estimate	90% Estimate Assessment	Net Funding Delta
10	Exhibit Fabrication & Installation	Exhibits	Exhibit Area Allowance	10.1		\$700,000	\$0	(\$700,000)
			Graphic Panels		272		\$0	\$0
			Transparent Panels (Ecoresin)		273		\$0	\$0
			Wall Murals		274		\$0	\$0
			Overhead Fabric		275		\$0	\$0
			Wayfinding and Signage		276		\$0	\$0
			Floor Mounted Stands		277		\$0	\$0
			Casework		278		\$0	\$0
			Multimedia (CERHAS) Development		279	\$105,300	\$105,300	\$105,300
			Graphics Development		280		\$0	\$0
			Finishes		281		\$0	\$0
			Furnishing		282		\$0	\$0
			Allowances		283		\$0	\$0
			Lighting Control, Design and Setting		284	\$12,000	\$12,000	\$12,000
			Fabricate and Install Exhibits		284A	\$251,494	\$251,494	\$251,494
			Allowance for Additional Lighting Controls		284B	\$18,000	\$18,000	\$18,000
10	Sum					\$700,000	\$386,794	(\$313,206)
11	Stoller Markup					\$1,200,573	\$581,694	(\$618,879)
11	Sum					\$1,200,573	\$581,694	(\$618,879)
12	Prior Expenditures-FY-07	Adjustments				\$400,000	\$521,000	\$121,000
12	Sum					\$400,000	\$521,000	\$121,000
13	Prior Expenditures-FY-07	Adjustments				\$0	\$0	\$0
13	Sum					\$0	\$0	\$0
	Grand Total					\$5,602,482	\$5,629,710	\$27,228

Item No.	FPVC \$5.6M Total Budget Item	Item	FPVC Baseline Estimate	90% Estimate Assessment	Net Funding Delta		
1	Building Design (A/E Services)	Construction Inspection	\$73,400	\$73,500	\$100		
		E&O, PM, PO		\$82,500	\$82,500		
		Engineering/Design	\$266,500	\$247,800	(\$18,700)		
		Fees		\$115,529	\$115,529		
		General Conditions		\$192,549	\$192,549		
		Water Pressure Investigation		\$9,169	\$9,169		
	Building Design (A/E Services) Sum		\$329,300	\$170,068	\$140,168		
2	Building Construction	Cabinetry & Millwork	\$48,000	\$16,500	(\$31,500)		
		Concrete Footings	\$4,000	\$30,750	\$26,750		
		Demolition	\$63,380	\$63,750	\$370		
		Doors/Windows	\$283,780	\$269,406	\$35,617		
		Earthwork/Grading	\$0	\$1,920	\$1,920		
		Electrical	\$216,500	\$260,500	(\$16,000)		
		Equipment	\$2,400	\$2,000	(\$400)		
		Exhibits	\$0	\$960	\$960		
		Fill	\$1,550	\$1,370	(\$180)		
		Fire Protection	\$20,000	\$21,700	\$1,700		
		Flooring	\$21,680	\$46,310	\$24,630		
		Framing & Wall/Ceiling Finishes	\$220,820	\$224,150	\$3,330		
		FPVC	\$408,050	\$450,191	\$42,141		
		Insulation	\$10,350	\$9,250	(\$1,090)		
		Masonry	\$115,010	\$97,820	(\$17,190)		
		Painting	\$21,180	\$25,800	\$4,640		
		Plumbing	\$110,800	\$113,000	\$2,200		
		Roof Decking	\$11,500	\$10,000	(\$1,500)		
		Roof Drainage	\$1,200	\$1,000	(\$200)		
		Roof Modifications	\$1,200	\$1,000	(\$200)		
		Roof Warranty	\$4,000	\$0	(\$4,000)		
		Sealants & Caulking	\$1,700	\$1,500	(\$200)		
		Solar Shades	\$35,000	\$35,000	\$0		
		Specialties	\$9,460	\$12,390	\$2,930		
		Structural Steel Framing	\$121,200	\$112,640	(\$8,560)		
		T&M Protection		\$0	\$0		
		Window Shading System	\$10,800	\$9,500	(\$1,300)		
		Pavement	\$15,040	\$24,936	\$9,896		
			Building Construction Sum		\$1,706,599	\$1,781,362	\$74,764
		3	Wastewater - Biowetland	Engineering/Design	\$35,710	\$35,710	\$0
				Overhead	\$71,220	\$71,220	\$0
				Sewage Treatment System Installation	\$107,677	\$139,890	\$32,213
				Supervision & Inspection	\$22,875	\$22,875	\$0
	Wastewater - Biowetland Sum		\$237,482	\$269,695	\$32,213		
4	Eco/Landscaping/Hardscape	Concrete Footings		\$0	\$0		
		Demolition	\$0	\$500	\$500		
		Earthwork/Grading	\$10,000	\$16,250	\$6,250		
		Electrical-Exterior	\$65,000	\$0	(\$65,000)		
		Flagpoles	\$6,300	\$10,354	\$4,054		
		Handicap Ramps	\$3,200	\$0	(\$3,200)		
		Handicap Signage	\$2,100	\$0	(\$2,100)		
		Landscaping/Seeding	\$50,000	\$26,000	(\$24,000)		
		Pavement	\$44,900	\$134,800	\$89,900		
	Eco/Landscaping/Hardscape Sum		\$181,500	\$187,904	\$6,404		
5	Exterior Utilities	Electrical-Exterior	\$188,910	\$352,296	\$163,386		
		Fire Protection	\$78,000	\$70,000	(\$8,000)		
		Security		\$23,008	\$23,008		
	Exterior Utilities Sum		\$266,910	\$445,304	\$178,394		
6	IT / Telecom	AV Equipment	\$159,200	\$119,929	(\$39,271)		
		Computers	\$13,000	\$9,000	(\$4,000)		
		Network	\$21,000	\$19,800	(\$1,200)		
		Phones	\$1,200	\$1,200	\$0		
	IT / Telecom Sum		\$194,400	\$149,929	(\$44,471)		
7	Furnishings & Misc.	Chairs	\$33,620	\$33,620	\$0		
		Engineering/Design	\$2,000	\$2,000	\$0		
		Equipment		\$0	\$0		
		Labor - Delivery & Installation	\$12,993	\$12,993	\$0		
		Miscellaneous	\$11,625	\$11,625	\$0		
		Office Furnishings	\$19,960	\$19,960	\$0		
	Furnishings & Misc. Sum		\$80,198	\$80,198	\$0		
8	Project Support/Management	Construction Inspection		\$58,064	\$58,064		
		Overhead	\$6,000	\$6,000	\$0		
		Project Management	\$190,871	\$247,688	\$56,817		
		Travel	\$34,050	\$61,010	\$26,960		
	Project Support/Management Sum		\$230,921	\$372,762	\$141,841		
9	Exhibit Design		\$74,000	\$123,000	\$49,000		
10	Exhibit Fabrication/Installation		\$700,000	\$386,794	(\$313,206)		
11	Stoller Markup		\$1,200,573	\$561,694	(\$638,879)		
12	Prior Expenditures-FY-07		\$400,000	\$524,000	\$124,000		
	Grand Total		\$5,602,482	\$5,628,710	\$27,228		

Contractor	FPVC Baseline Estimate	LRH 90% Estimate Assessment	Net Funding Delta
Megan	[REDACTED]	[REDACTED]	[REDACTED]
Stoller	[REDACTED]	[REDACTED]	[REDACTED]
URS	[REDACTED]	[REDACTED]	[REDACTED]
U of C	[REDACTED]	[REDACTED]	[REDACTED]
Kolar	[REDACTED]	[REDACTED]	[REDACTED]
Harlan Graphics	[REDACTED]	[REDACTED]	[REDACTED]
Unspecified - Prior Expenditures	\$400,000	\$521,000	\$121,000
Grand Total	\$5,602,482	\$5,629,710	\$27,228

Activity ID	Activity Name	Start	Finish	Original Duration
Total		01-Oct-07	30-Sep-08	251
Project: 0_1_502.1.06.506 Fernald, OH Site				
WBS: 0_1_502.1.06.506.6 Construction - Visitors Center Site Prep for O...				
WBS: 0_1_502.1.06.506.6.05 Construction - Visitors Center Site Prep for O...				
CPR-1000	Prepare Site for Opening	25-Feb-08*	08-Jun-08	75
A5780	Meeting Room Use Policies/Contracts	25-Feb-08*	07-Mar-08	10
A5790	Volunteer Program Policies	25-Feb-08*	15-Apr-08	37
A5840	Develop Shing Oak Trail Curriculum	25-Feb-08*	19-May-08	61
A5860	Develop GREEN Building Curriculum	25-Feb-08*	23-May-08	65
A5870	Develop Nature Related Educational Curriculum	25-Feb-08*	25-Apr-08	45
A5880	Develop Escorted Tour Router/Talking Points	25-Feb-08*	23-May-08	65
A5890	Develop Exhibit Talking Points	25-Feb-08*	25-Apr-08	45
A5910	Develop Marketing Plan	25-Feb-08*	25-Apr-08	45
A5940	Update Access Plan	25-Feb-08*	30-Apr-08	48
A5950	Update Security Plan	25-Feb-08*	13-Jun-08	79
A5570	Finalize Detailed Design	25-Feb-08*	14-Mar-08	15
A5170	Install New Site Perimeter Signage	25-Feb-08*	21-Mar-08	20
A5665	Develop Green Cleaning Program	25-Feb-08*	17-Mar-08	16
A5930	Staffing	03-Mar-08*	15-Apr-08	32
A5750	SOW for Maintenance Records	17-Mar-08*	21-Mar-08	5
A5800	Revise SOW for Security Service	17-Mar-08*	21-Mar-08	5
A5820	Revise SOW for Emergency Service	17-Mar-08*	21-Mar-08	5
A5850	Develop Biowalland Educational Curriculum	17-Mar-08*	23-May-08	50
A5900	Develop Opening Weekend Event Planning	17-Mar-08*	23-May-08	50
A5670	SOW for Custodial Services	18-Mar-08*	24-Mar-08	5
A5810	Procure Security Service	24-Mar-08*	30-Apr-08	28
A5830	Procure Emergency Services	24-Mar-08*	30-Apr-08	28
A5680	Solicit Custodial Services	26-Mar-08*	28-Apr-08	24
A5760	Solicit Maintenance Service	26-Mar-08*	28-Apr-08	24
A5960	Update STO-8	15-Apr-08*	02-Jun-08	34
A5690	Procure Custodial Services	29-Apr-08*	19-May-08	15
A5770	Procure Maintenance Service	01-May-08*	29-Aug-08	85
A5710	As-built Drawings	01-May-08*	30-May-08	21
A5700	Place Appropriate Trash/Recycling Receipts	02-Jun-08*	12-Jun-08	9
A5730	Maintenance Training	02-Jun-08*	12-Jun-08	9
A5740	Update Property Records	02-Jun-08*	31-Jul-08	43
WBS: 0_1_502.1.06.506.6.05.BA Borrow Area				
A5650	Borrow Area Summary Hammock	24-Mar-08	21-May-08	43
A5580	Grade	24-Mar-08	21-May-08	43
A5590	Install Culvert and Erosion Protection	24-Mar-08*	28-Mar-08	5
A5600	Conduct Debris Sweep	31-Mar-08*	03-Apr-08	4
A5610	Apply Cover Material Where Needed	07-Apr-08*	04-Apr-08	5
A5620	Install Puddle Duck Pond Overlook	14-Apr-08*	11-Apr-08	5
A5640	Install Signs (Interpretive/Wayfinding)	21-Apr-08*	18-Apr-08	5
			23-Apr-08	3

Remaining Level of Effort
 Actual Work
 Remaining Work
 Critical Remaining Work
 M..

TASK filter: Fernald Deliverable Not=No.

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Activity ID	Activity Name	Start	Finish	Original Duration	ES	EF	LS	LF	Activity Name
A5660	Install Additional Landscaping/Seed Disturbed Area	24-Apr-08*	30-Apr-08*	5					Install Additional Landscaping/Seed Disturbed Area
A5630	Mow/Trim Grass	20-May-08*	21-May-08*	2					Mow/Trim Grass
WBS: 0_1.502.1.06.506.6.05.BIO Blowlend Trail									
A5560	Blowlend Trail Summary Hammock	25-Feb-08	16-May-08	60					Blowlend Trail Summary Hammock
A5490	Finalize Detailed Design (Blowlend Trail)	25-Feb-08*	14-Mar-08	15					Finalize Detailed Design (Blowlend Trail)
A5575	Finalize Detailed Design (Barron Area)	25-Feb-08*	14-Mar-08	15					Finalize Detailed Design (Barron Area)
A5500	Grade	28-Apr-08*	29-Apr-08*	2					Grade
A5510	Conduct Debris Sweep	30-Apr-08*	02-May-08	3					Conduct Debris Sweep
A5520	Apply Cover Material and Edging	12-May-08*	16-May-08	5					Apply Cover Material and Edging
A5530	Install Signs (Interpretive/Wayfinding)	12-May-08*	14-May-08	3					Install Signs (Interpretive/Wayfinding)
A5540	Install Access Restrictions	13-May-08*	14-May-08	2					Install Access Restrictions
A5550	Install Additional Landscaping/Seed Disturbed Area	15-May-08*	16-May-08	2					Install Additional Landscaping/Seed Disturbed Area
WBS: 0_1.502.1.06.506.6.05.EP Eco Park									
A5270	Eco Park Summary Hammock	27-Feb-08	17-Jun-08	79					Eco Park Summary Hammock
A5230	Upgrade Parking Area (Fresh Gravel)	27-Feb-08*	28-Feb-08*	2					Upgrade Parking Area (Fresh Gravel)
A5260	Install Additional Landscaping	31-Mar-08*	11-Apr-08*	10					Install Additional Landscaping
A5220	Repair/Maintain Overlooks	14-Apr-08*	18-Apr-08*	5					Repair/Maintain Overlooks
A5210	Mow/Trim Grass	19-May-08*	20-May-08	2					Mow/Trim Grass
A5250	Conduct Debris Sweep	21-May-08*	22-May-08	2					Conduct Debris Sweep
A5470	Ship Low Level Waste	23-May-08*	30-May-08	5					Ship Low Level Waste
A5240	Install New Signage	16-Jun-08*	17-Jun-08	2					Install New Signage
WBS: 0_1.502.1.06.506.6.05.FG Front Gate									
A5060	Front Gate Summary Hammock	10-Mar-08	19-Jun-08	73					Front Gate Summary Hammock
A5000	Install Entrance Sign	10-Mar-08	19-Jun-08	73					Install Entrance Sign
A5010	Install Information Kiosk	10-Mar-08*	12-Mar-08	3					Install Information Kiosk
A5030	Install New Gate	13-Mar-08*	19-Mar-08	5					Install New Gate
A5040	Install Lighting	17-Mar-08*	18-Mar-08	1					Install Lighting
A5050	Install Landscapes/Seed Disturbed Areas	21-Mar-08*	28-Mar-08	6					Install Landscapes/Seed Disturbed Areas
A5130	RepaVe/Repair Road Where Needed	27-May-08*	06-Jun-08	9					RepaVe/Repair Road Where Needed
A5140	Stripe Road	09-Jun-08*	13-Jun-08	5					Stripe Road
A5020	Install Additional Signage (Hours, etc)	16-Jun-08*	16-Jun-08	1					Install Additional Signage (Hours, etc)
A5150	Install Reflectors	16-Jun-08*	19-Jun-08	4					Install Reflectors
WBS: 0_1.502.1.06.506.6.05.PR Paved Road									
A5100	Paved Road Summary Hammock	25-Feb-08	21-Mar-08	20					Paved Road Summary Hammock
A5080	Install Borrow Area Parking Pull-off	25-Feb-08*	26-Feb-08	2					Install Borrow Area Parking Pull-off
A5090	Install Lighting Where Needed	18-Mar-08*	21-Mar-08	4					Install Lighting Where Needed
WBS: 0_1.502.1.06.506.6.05.SOT Shingle Oak Trail									
A5370	Shingle Oak Trail Summary Hammock	25-Feb-08	13-Jun-08	79					Shingle Oak Trail Summary Hammock
A5280	Finalize Detailed Design (Shingle Oak)	25-Feb-08*	14-Mar-08	15					Finalize Detailed Design (Shingle Oak)
A5290	Grade	28-Apr-08*	12-May-08	11					Grade
A5300	Install Culvert and Bridge	13-May-08*	15-May-08	3					Install Culvert and Bridge
A5310	Conduct Debris Sweep	13-May-08*	19-May-08	5					Conduct Debris Sweep
A5320	Apply Cover Material	20-May-08*	30-May-08	8					Apply Cover Material
A5330	Install Bird Blind	02-Jun-08*	08-Jun-08	5					Install Bird Blind
A5350	Install Access Restrictions	02-Jun-08*	02-Jun-08	1					Install Access Restrictions

Remaining Level of Effort
 Remaining Work
 Critical Remaining Work

Remaining Work
 Critical Remaining Work

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Remaining Level of Effort (Green bar)

Actual Work (Red bar)

Remaining Work (Green diamond)

Critical Remaining Work (Red diamond)

M. (Blue diamond)

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Activity ID	Activity Name	Start	Finish	Original Duration
80	Install Artifacts	20-May-08	23-May-08	4
90	Install Multimedia Hardware/Equipment	20-May-08	23-May-08	4
80	Develop/Complete Punchlist/Clean Exhibit Area	27-May-08*	05-Jun-08	8
100	Test Multimedia	27-May-08	04-Jun-08	7
110	Exhibits Installation Complete	01-Jun-08*	06-Jun-08*	0
Project: 1.09.9.5.003_BEFORE Fernald Site Construction - In...				
WBS: 1.09.9.6.003_BEFORE.01.01 Site Construction				
WBS: 1.09.9.5.003_BEFORE.01.01 Blowfilland				
A1055	Award contract	01-Oct-07	07-Mar-08	108
A1060	Concept Design (30%)	21-Nov-07*	31-Dec-07	26
A2060	Stoller Review 30% Design	02-Jan-08*	14-Jan-08	9
A2070	Develop Draft Final Design	15-Jan-08	07-Mar-08	37
A1070	Present Conceptual Design to OEPA	15-Jan-08*	15-Jan-08	1
A1080	OEPA Review of Concept Design	15-Jan-08*	23-Jan-08	6
A1090	Complete design	16-Jan-08*	07-Feb-08	16
A2350	OEPA Conceptual Design Approval	08-Feb-08*	08-Feb-08*	0
WBS: 1.09.9.5.003_BEFORE.01.02 FPVC Landscaping				
A1000	Landscape Design	02-Jan-08	12-Jun-08	114
RG-7001	Procure liner material	02-Jan-08*	29-Jan-08	19
RG-7002	Procure water control structures	04-Feb-08*	28-Feb-08	18
RG-7003	Procure plant material	04-Feb-08*	28-Feb-08	18
RG-7005	Procure goose control measures	04-Feb-08*	28-Feb-08	18
SV-7055	Procure plant material	04-Feb-08*	29-Feb-08	19
SV-7057	Procure fencing materials	04-Feb-08*	29-Feb-08	19
S-7068	Procure seed	04-Feb-08*	29-Feb-08	19
RG2-7019	Uncover existing downspout drainage	15-Feb-08*	28-Feb-08	9
RG2-7020	Infill existing manhole	15-Feb-08*	28-Feb-08	9
RG2-7021	Demo top of manhole	15-Feb-08*	28-Feb-08	9
A1001	100% Landscape/Hardscape Design Complete	15-Feb-08*	15-Feb-08*	0
SC-7042	Move to DO building	19-Feb-08*	19-Feb-08	1
A1020	Install hardscape and sidewalk	04-Mar-08*	31-Mar-08	20
A1010	Construct Cold War garden	18-Mar-08*	31-Mar-08	10
A1040	Install outdoor electric	01-Apr-08	14-Apr-08	10
A1050	Install flag poles	01-Apr-08	07-Apr-08	5
A1030	Plant trees and plants	01-May-08*	12-Jun-08	30
Project: 1.09.9.5.003_POST Fernald Site Construction - In...				
WBS: 1.09.9.6.003_POST.01.01 Site Construction				
WBS: 1.09.9.5.003_POST.01.01 Blowfilland				
WBS: 1.09.9.5.003_POST.01.01.A Design				
CTR-1110	Stoller Review and Comment on Draft Final Design	07-Mar-08*	11-Mar-08	36
CTR-1120	Submit Draft Final Design to Agencies	12-Mar-08*	17-Mar-08	3
CTR-1130	Agency Review of Draft Final Design	18-Mar-08*	18-Apr-08	4
CTR-1140	Final Design to Stoller	21-Apr-08*	24-Apr-08	24
CTR-1175	Final Design Submittal: Stoller, OEPA, USEPA	25-Apr-08*	25-Apr-08	1
A1146	100% Design Complete	25-Apr-08	25-Apr-08	0

Legend:

- Remaining Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- M.

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Activity Name	Start	Finish	Original Duration
WBS: 1.09.9.5.003_POST.01.01.B General Requirements			
CTR-1180 Final Construction Cost/Approval	12-Mar-08	14-May-08	46
CTR-1190 P&P Bond	12-Mar-08*	20-Mar-08	7
A1110 Mobilization	21-Mar-08	21-Mar-08	1
A1145 Initiate Blowtand Construction	24-Mar-08*	25-Mar-08	2
WBS: 1.09.9.5.003_POST.01.01.B.A Septic Tank			
A1120 Install pipe and tanks	26-Mar-08	03-Apr-08	7
CTR-3000 Septic Tank Hammock	26-Mar-08	03-Apr-08	7
CTR-2010 Clearing and Grubbing	27-Mar-08	28-Mar-08	2
CTR-3010 Excavation for Septic Tanks	26-Mar-08*	26-Mar-08	1
CTR-3020 Install Piping to SSF Wetland	27-Mar-08	27-Mar-08	1
CTR-3030 Backfill to Grade	28-Mar-08	02-Apr-08	4
WBS: 1.09.9.5.003_POST.01.01.B.B Subsurface Flow Wetland			
CTR-4000 SSF Wetlands Hammock	14-Apr-08	23-Apr-08	7
CTR-4010 Excavation	14-Apr-08	22-Apr-08	7
CTR-4015 Insertion of Piping Under Liner	14-Apr-08*	14-Apr-08	1
A4530 Install Electrical	15-Apr-08	15-Apr-08	1
CTR-4020 Installation of Liner	16-Apr-08*	22-Apr-08	5
CTR-4030 Placement of Stones and Pea Gravel	16-Apr-08	16-Apr-08	1
CTR-4040 Piping	17-Apr-08	21-Apr-08	3
CTR-4050 Topsoil Placement	17-Apr-08	17-Apr-08	1
WBS: 1.09.9.5.003_POST.01.01.B.C Surface Flow Wetland			
CTR-5000 SF Wetlands Hammock	23-Apr-08	07-May-08	11
CTR-5010 Excavation and Separation Berms	23-Apr-08	07-May-08	11
A1210 Install Outfall Piping	23-Apr-08	29-Apr-08	5
CTR-6030 Install Topsoil/Organic Matter	30-Apr-08	01-May-08	3
WBS: 1.09.9.5.003_POST.01.01.B.D Plant and Seed Wetland			
A1140 Plant and seed blowtand Hammock	08-May-08	14-May-08	5
CTR-7010 Grade Excess Excavation Material	08-May-08	14-May-08	5
CTR-7005 Install Wetland Plants	08-May-08*	12-May-08	3
CTR-7020 Seed and Mulch Disturbed Areas	08-May-08*	09-May-08	2
WBS: 1.09.9.5.003_POST.01.01.C Closeout			
A1160 Office and site support	12-Mar-08	23-May-08	53
A1170 Construction support	12-Mar-08*	23-May-08	53
A4710 Complete Punchlist Items	15-May-08*	21-May-08	5
A1150 Demobilize	22-May-08*	23-May-08	2
A1180 Complete Blowtand Construction	23-May-08	23-May-08	0
WBS: 1.09.9.5.003_POST.01.02 Exploration			
WBS: 1.09.9.5.003_POST.01.02.A Exterior			
A1200 Hardscape Installation Hammock	31-Mar-08	24-Apr-08	19
A1060 Grade Sidewalk	31-Mar-08*	04-Apr-08	5
A1070 Install Exterior Lighting	07-Apr-08	18-Apr-08	10
A1080 Form and Pour Sidewalk	07-Apr-08	16-Apr-08	10
A1080 Install Coldwar Garden	21-Apr-08	23-Apr-08	3
A1190 Final Grade	21-Apr-08	23-Apr-08	3

Remaining Level of Effort

Remaining Work

Actual Work

Remaining Work

Critical Remaining Work

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Activity ID	Activity Name	Start	Finish	Original Duration
A1010	Construct Cold War garden (install bricks/stone)	23-Apr-08*	24-Apr-08	2
WBS: 1.09.9.5.003_POST.01.02.B Planting and Fencing				
RG-7011	Procure Materials Hammock	25-Feb-08	06-May-08	52
RG-7001	Procure wetland liner material	25-Feb-08*	06-May-08	52
RG-7002	Procure water control structures	25-Feb-08*	25-Mar-08	22
RG-7003	Procure plant material	25-Feb-08*	25-Mar-08	22
RG-7005	Procure goose control measures	25-Feb-08*	25-Mar-08	22
SV-7057	Procure fencing materials	25-Feb-08*	25-Mar-08	22
S-7068	Procure seed	25-Feb-08*	25-Mar-08	22
SV-7066	Procure, receive and stage mulch and topsoil	03-Mar-08*	25-Mar-08	22
RG-7006	Receive and stage herbaceous plugs	07-Apr-08*	06-May-08	22
WBS: 1.09.9.5.003_POST.01.02.C Rain Garden No. 2				
RG2-7049	Install Rain Garden No. 2 Hammock	25-Feb-08	14-May-08	58
RG2-7019	Uncover existing downspout drainage	25-Feb-08*	28-Feb-08	4
RG2-7020	Infill existing manhole	25-Feb-08*	28-Feb-08	4
RG2-7021	Demo top of manhole	25-Feb-08*	28-Feb-08	4
RG2-7022	Grade basin and drainage	28-Apr-08*	30-Apr-08	3
RG2-7023	Install outfall culvert	30-Apr-08*	30-Apr-08	1
RG2-7024	Grade raised planting bed	01-May-08*	02-May-08	2
RG2-7025	Install liner	08-May-08*	07-May-08	2
RG2-7026	Install erosion control stone	08-May-08*	07-May-08	2
RG2-7027	Finish grade	07-May-08*	08-May-08	2
RG2-7028	Add topsoil	08-May-08*	09-May-08	2
RG2-7029	Plant herbaceous vegetation	12-May-08*	13-May-08	2
RG2-7030	Install goose control measures	13-May-08*	14-May-08	2
WBS: 1.09.9.5.003_POST.01.02.D Upgrade Parking Area				
PA-1000	Upgrade Parking Area Hammock	25-Feb-08	30-May-08	68
SC-7043	Apply clearcoat	25-Feb-08	30-May-08	68
AL-7052	Weed and mulch existing prairie island	25-Feb-08*	25-Feb-08	1
RG3-7034	Backfill other parking islands	03-Mar-08*	06-Mar-08	4
SC-7044	Backfill base location	12-May-08*	16-May-08	5
RG3-7036	Install erosion control stone	16-May-08*	16-May-08	1
SC-7045	Pour concrete base	19-May-08*	20-May-08	2
RG3-7037	Finish grade	19-May-08*	23-May-08	5
RG3-7038	Add topsoil	20-May-08*	21-May-08	2
SC-7046	Move to parking area	21-May-08*	22-May-08	2
PL-1000	Strip New Parking Lot	27-May-08*	27-May-08	1
RG3-7040	Install goose control measures	28-May-08*	30-May-08	3
RG1-7018	Install Rain Garden No. 1 Hammock	29-May-08*	30-May-08	2
WBS: 1.09.9.5.003_POST.01.02.E Rain Garden No. 1				
RG1-7008	Uncover existing culvert	17-Mar-08	16-Apr-08	23
RG1-7009	Install new standpipe	17-Mar-08*	16-Apr-08	23
RG1-7010	Backfill	21-Mar-08*	24-Mar-08	2
RG1-7011	Grade basin and drainage	25-Mar-08*	28-Mar-08	4
RG1-7012	Install liner	31-Mar-08*	02-Apr-08	3

Remaining Level of Effort
 Remaining Work
 Critical Remaining Work

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Activity ID	Activity Name	Start	Finish	Original Duration	Month
RG1-7013	Install outfall	04-Apr-08*	04-Apr-08	1	APR
RG1-7014	Finish grade	07-Apr-08*	08-Apr-08	2	APR
RG1-7015	Add topsoil	08-Apr-08*	09-Apr-08	2	APR
RG1-7016	Plant herbaceous vegetation	10-Apr-08*	14-Apr-08	3	APR
RG1-7017	Install goose control measures	15-Apr-08*	16-Apr-08	2	APR
WBS: 1.09.9.5.003_POST.01.02.F_Amenities					
AL-7068	Install Amenities Hammock	08-May-08	23-May-08	12	MAY
AL-7048	Install wayfinding signage	08-May-08*	13-May-08	4	MAY
AL-7049	Place glacial erratics	14-May-08*	15-May-08	2	MAY
AL-7050	Install planting bed around big rock	16-May-08*	19-May-08	2	MAY
AL-7051	Install wildlife boxes/feeding boxes	20-May-08*	23-May-08	4	MAY
B-7090	Install Bike Rack	22-May-08*	23-May-08	2	MAY
WBS: 1.09.9.5.003_POST.01.02.G Seeding Prep Areas					
S-7080	Seeding Prep Areas Hammock	27-May-08	05-Jun-08	8	JUN
S-7070	Finish grade	27-May-08	05-Jun-08	8	JUN
S-7071	Apply topsoil where needed	27-May-08*	30-May-08	4	JUN
WBS: 1.09.9.5.003_POST.01.02.H Seed Prairie Areas					
PS-7083	Seed Prairie Areas Hammock	23-May-08	10-Jul-08	36	JUL
PS-7073	Apply mycorrhizae	23-May-08	16-Jul-08	36	JUL
PS-7074	Till areas to be seeded	27-May-08*	29-May-08	3	JUN
PS-7076	Pick up trash	02-Jun-08*	03-Jun-08	3	JUN
PS-7075	Rake tilled areas	04-Jun-08*	06-Jun-08	5	JUN
PS-7077	Seed with seed drill	09-Jun-08*	08-Jun-08	3	JUN
PS-7078	Install goose control measures	10-Jul-08*	11-Jun-08	3	JUN
WBS: 1.09.9.5.003_POST.01.02.J Seed Turf Areas					
TS-7092	Seed Turf Areas Hammock	30-May-08	17-Jun-08	13	JUN
TS-7080	Apply fertilizer	30-May-08*	17-Jun-08	13	JUN
TS-7081	Till areas to be seeded	04-Jun-08*	03-Jun-08	3	JUN
TS-7082	Rake tilled areas	05-Jun-08*	05-Jun-08	2	JUN
TS-7083	Broadcast seed	06-Jun-08*	05-Jun-08	1	JUN
TS-7084	Rake seeded areas	06-Jun-08*	10-Jun-08	3	JUN
TS-7085	Roll seeded areas	06-Jun-08*	10-Jun-08	3	JUN
TS-7086	Apply straw mulch	06-Jun-08*	10-Jun-08	3	JUN
TS-7087	Install goose control measures	11-Jun-08*	10-Jun-08	3	JUN
A-2000	Landscape/Hardscape Installation Complete	11-Jun-08*	11-Jun-08*	0	JUN
WBS: 1.09.9.5.003_POST.01.02.K Plant Trees and Plants					
A1030	Plant trees and plants Hammock	28-Mar-08	23-May-08	40	MAY
SV-7058	Set up staging area	28-Mar-08	23-May-08	40	MAY
SV-7059	Receive and stage plant material	01-Apr-08*	01-Apr-08	2	APR
PI-7062	Plant Various site locations	03-Apr-08*	03-Apr-08	1	APR
PI-7063	Plant Solstice line	08-May-08*	14-May-08	5	MAY
PI-7061	Plant Parking area	15-May-08*	19-May-08	3	MAY
PI-7064	Plant Building vines	20-May-08*	21-May-08	2	MAY
Project: 1.09.9.1.001_BEFORE Fernald Visitors Center Task					
WBS: 1.09.9.1.001_BEFORE.01 Project Management					
		01-Oct-07 A	06-Jun-08	172	JUN
		01-Oct-07 A	06-Jun-08	172	JUN

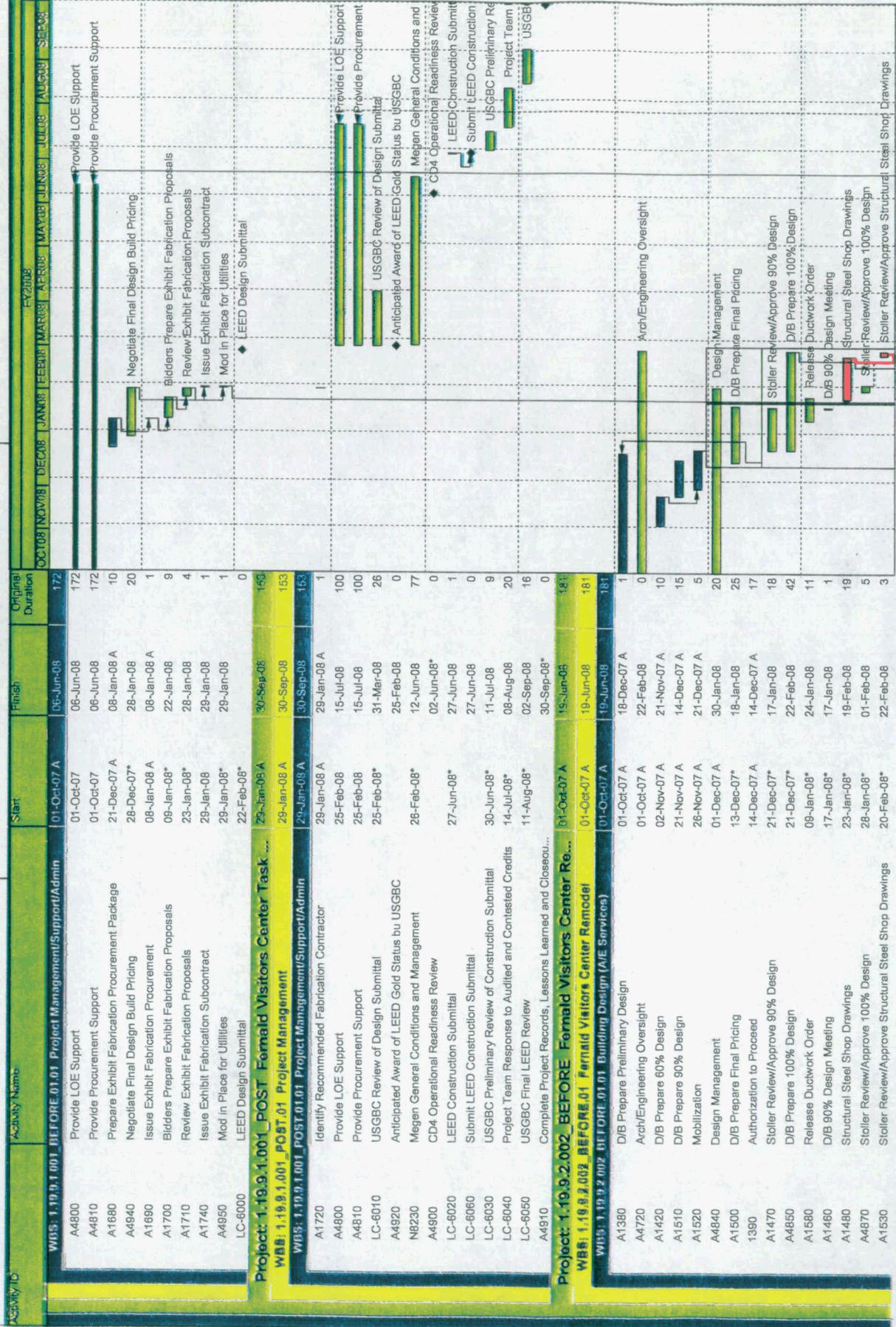
Remaining Level of Effort
 Remaining Work
 Critical Remaining Work

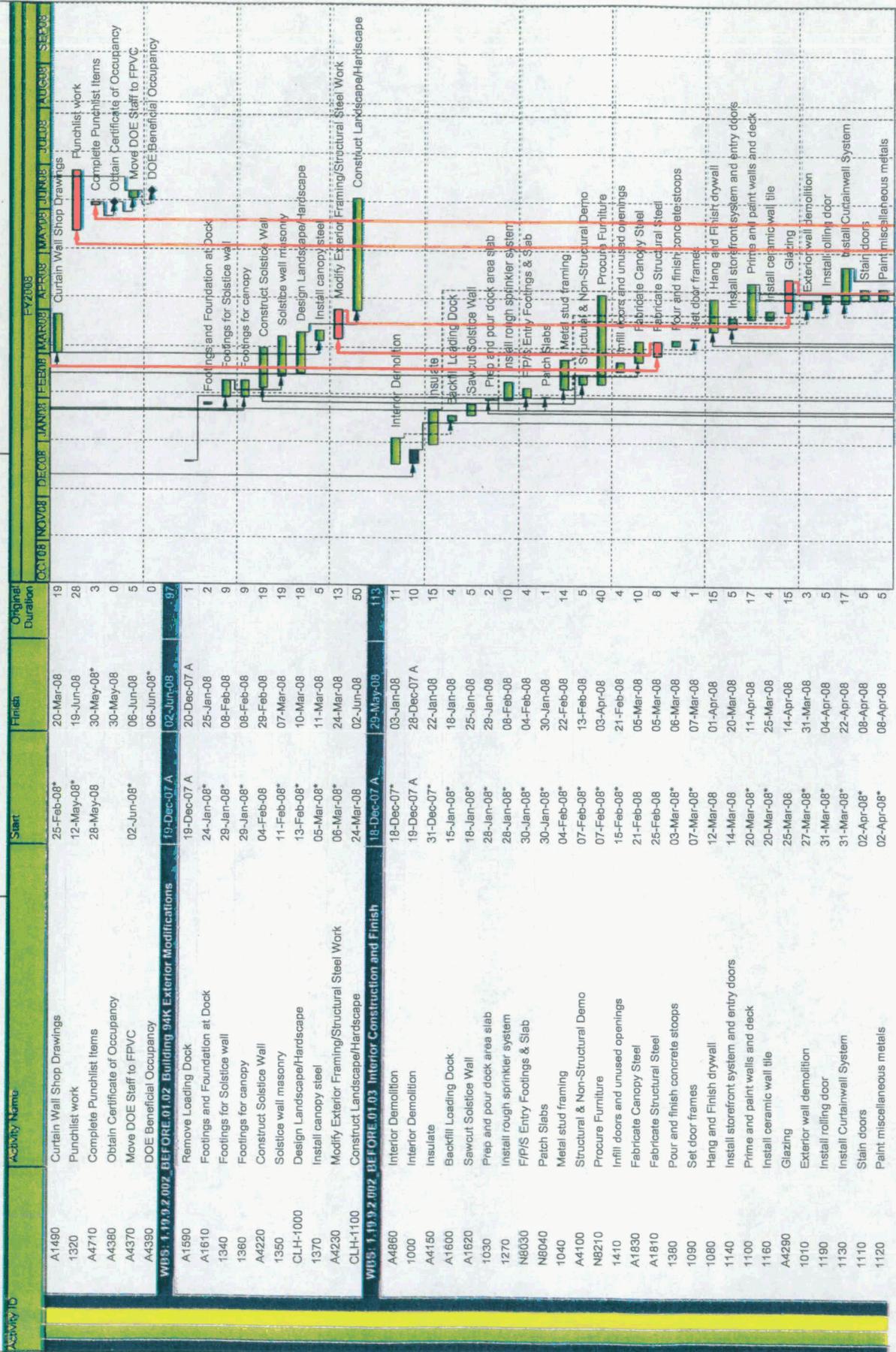
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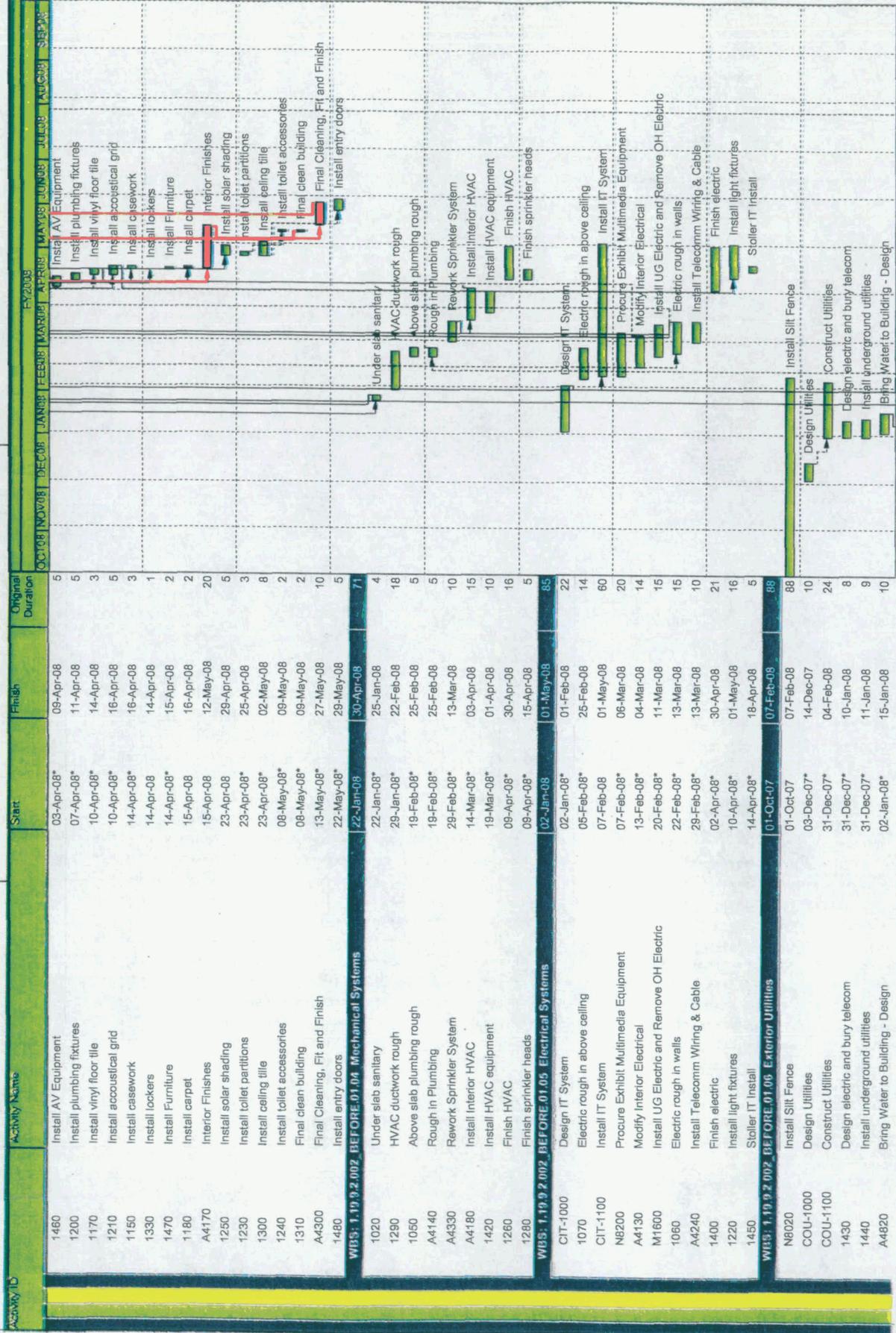
Remaining Level of Effort

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Critical Remaining Work

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Legend: Remaining Level of Effort (Green), Actual Work (Red), Remaining Work (Blue), Critical Remaining Work (Black)

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Activity ID	Activity Name	Start	Finish	Original Duration	Calendar
A4830	Bring Water to Building - Construction	16-Jan-08	06-Feb-08	15	01
A1390	Evaluate potable water line	17-Jan-08*	23-Jan-08	4	01
COW-1010	Design Water System	22-Jan-08*	28-Jan-08	5	01
COW-1110	Install Water System	22-Jan-08	28-Jan-08	5	01
A1400	Upgrade potable water line	22-Jan-08*	28-Jan-08	5	01
WB5: 1.19.9.2.002_BEFORE.01.07 IT Requirements					
A3030	Review Requirements	21-Dec-07	05-Mar-08	50	01
A4610	DAD Prepare Hardware Estimate	02-Jan-08	15-Jan-08	10	01
A4620	Prepare Integrated Installation Plan	08-Jan-08	22-Jan-08	10	01
A4630	Stoller IT Review/Approve Plan	08-Jan-08	22-Jan-08	10	01
A4640	Specify CAWWT Network	23-Jan-08	05-Feb-08	10	01
A4660	Install CAWWT Onsite Lines	23-Jan-08	12-Feb-08	15	01
A4680	Specify CV Network	30-Jan-08	05-Feb-08	10	01
A2700	Evaluate Design Criteria (VC, CWWAT, Fire)	30-Jan-08	05-Feb-08	5	01
A2750	Investigate Line	30-Jan-08	12-Feb-08	10	01
A4400	Develop Base Drawings	05-Feb-08*	11-Feb-08	5	01
A2710	Evaluate Current Domestic Water Installation	06-Feb-08	12-Feb-08	5	01
A4650	Procure CAWWT Network	06-Feb-08	05-Mar-08	20	01
A4680	Procure VC Network	06-Feb-08	05-Mar-08	20	01
Project: 1.19.9.2.002_POST Fernald Visitors Center Remo...					
WB5: 1.19.9.2.002_POST.01 Building Design (A/E Services)					
A4720	Arch/Engineering Oversight	11-Feb-08 A	16-Jun-08	89	01
A4840	Design Management	25-Feb-08*	16-Jun-08	80	01
A4850	Building Commissioning	25-Feb-08*	16-Jun-08	80	01
1320	Punchlist work	01-May-08	14-Mar-08	15	01
1340	Substantial Completion of Building	02-May-08*	14-Mar-08	10	01
1360	Building Complete and Ready for Turnover	02-May-08*	15-May-08	0	01
A4370	Move DOE Staff to FPVC	02-Jun-08*	15-May-08	0	01
A4860	Beneficial Occupancy	02-Jun-08	06-Jun-08	0	01
WB5: 1.19.9.2.002_POST.01.02 Building 94K Exterior Modifications					
1350	Solstice wall masonry	11-Feb-08 A	02-Jun-08	79	01
CLH-1000	Design Landscape/Hardscape	11-Feb-08 A	07-Mar-08	19	01
A4220	Construct Solstice Wall	25-Feb-08*	10-Mar-08	11	01
1370	Install canopy steel	25-Feb-08	28-Feb-08	4	01
A1800	Structural Steel Modifications	05-Mar-08*	11-Mar-08	5	01
CLH-1100	Construct Landscape/Hardscape	06-Mar-08	24-Mar-08	13	01
A1050	Install flag poles	24-Mar-08*	02-Jun-08	50	01
1250	Install solar shading	22-Apr-08*	28-Apr-08	5	01
WB5: 1.19.9.2.002_POST.01.03 Interior Construction and Finish					
1060	Electric rough in walls	13-Feb-08 A	28-May-08	74	01
A1810	Fabricate Structural Steel	13-Feb-08 A	04-Mar-08	14	01
A1820	Order Curtain Wall System	25-Feb-08	05-Mar-08	8	01
A1830	Fabricate Canopy Steel	25-Feb-08	28-Mar-08	25	01
M1250	Install solar shading	25-Feb-08	04-Mar-08	7	01
		25-Feb-08	26-Feb-08	2	01

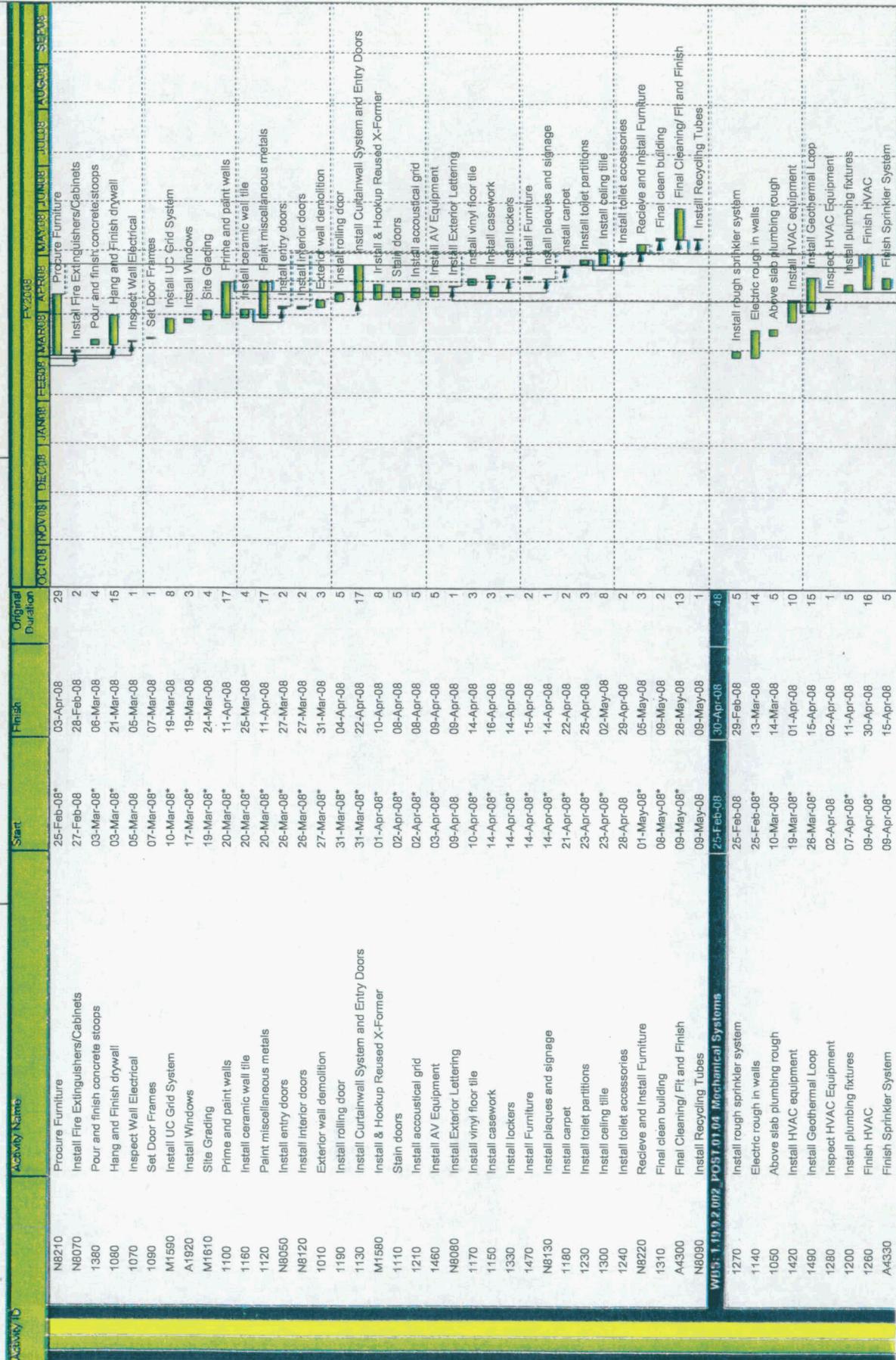
Legend:

- Remaining Level of Effort
- Actual Work
- Remaining Work
- Critical Remaining Work
- M.

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■ Remaining Level of Effort
 ■ Remaining Work
 ◆ M.
 ■ Critical Remaining Work

Activity ID	Activity Name	Start	Finish	Original Duration	CC103	NOV08	DEC08	JAN08	FEB08	MAR08	APR08	MAY08	JUN08	JUL08	AUG08	SEP08
A2260	Finish Sprinkler Heads	09-Apr-08*	15-Apr-08	5												
1440	Geothermal System Complete	15-Apr-08	15-Apr-08	0												
A4180	Complete Interior HVAC	16-Apr-08*	25-Apr-08	8												
WBS: 1.19.9.2.002_POST.01.05 Electrical Systems																
A4240	Install Telecomm Wiring & Cable	13-Feb-08 A	05-May-08	59												
CIT-1100	Install IT System	25-Feb-08	01-May-08	49												
M1600	Install UG Electric and Remove OH Electric	25-Feb-08*	11-Mar-08	12												
N8200	Procure Exhibit Multimedia Equipment	25-Feb-08*	03-Mar-08	6												
A2220	Finish Electrical	02-Apr-08*	30-Apr-08	21												
A1040	Install outdoor electric	08-Apr-08*	21-Apr-08	10												
1220	Install light fixtures	10-Apr-08*	30-Apr-08	15												
1450	Stoller IT Install	14-Apr-08*	18-Apr-08	5												
N8110	Install Entry Control System	01-May-08	05-May-08	3												
N8140	Install Fire Alarm	01-May-08	02-May-08	2												
N8160	Install Access Control System	01-May-08	02-May-08	2												
N8170	Install Intrusion Detection/Security System	01-May-08	02-May-08	2												
N8180	Install PA System	05-May-08	05-May-08	1												
WBS: 1.19.9.2.002_POST.01.06 Exterior Utilities																
COU-1000	Design Utilities	25-Feb-08	30-Apr-08	48												
A4820	Bring Water to Building - Design	25-Feb-08*	07-Mar-08	10												
1430	Design electric and bury telecom	25-Feb-08*	05-Mar-08	8												
A4830	Bring Water to Building - Construction	10-Mar-08	28-Mar-08	15												
A4500	Bury Line	17-Apr-08*	30-Apr-08	10												
WBS: 1.19.9.3.003_POST.01.07 Parking and Walkway																
M1620	Site Concrete	01-Apr-08*	22-Apr-08	16												
M1630	Place Asphalt Pavement	15-Apr-08*	18-Apr-08	4												
N8060	Install Curb Stops	21-Apr-08	22-Apr-08	2												
N8150	Stripe Parking Lot	21-Apr-08*	21-Apr-08*	1												
Project: 1.19.9.3.003_POST Fernald Visitors Center - IT/Telecom																
WBS: 1.19.9.3.003_POST.01 Fernald Visitors Center - IT/Telecom																
A4650	Procure CAWWT Network	25-Feb-08	27-May-08	66												
A4680	Procure VC Network	25-Feb-08	27-May-08	66												
3	Video conference equipment procurement	03-Mar-08*	05-Mar-08	8												
5	cawwt connection Completed	07-Mar-08*	19-Mar-08	13												
8	Workstation procurement	21-Mar-08*	11-Mar-08	3												
9	Multifunction device procurement	21-Mar-08*	09-Apr-08	14												
14	Video telecon equipment install	16-Apr-08*	18-Apr-08	21												
6	Utilities trench between cawwt and visitor center completed	30-Apr-08*	16-Apr-08	1												
7	Utility trench lines terminated and tested (fiber and copper)	30-Apr-08*	19-May-08	14												
10	VC wiring completion	01-May-08*	01-May-08	2												
11	Switch configured and fiber connection from VC to cawwt ...	05-May-08*	07-May-08	5												
12	Data connectivity tested	07-May-08*	06-May-08	2												
13	Phone punch down from DADtel-connect VC to cawwt ph...	16-May-08*	07-May-08	1												
15	ISDN line (for VTC) install service deliv...	23-May-08*	19-May-08	2												
			23-May-08	1												

Legend:

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Fernald Integrated Sched. Development

1.09.9.1.001_BEFORE... Fernald Visitors Center Task

Activity ID	Activity Name	Start	Finish	Original Duration
16	Workstations installed and connected	23-May-08*	27-May-08	2
17	Network printer installed and connected	23-May-08*	23-May-08	1



Remaining Level of Effort
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 M..