

United States Department of the Interior  
National Park Service  
Class B Construction Cost Estimate

**BASIS OF ESTIMATE**

**PROJECT INFORMATION**

**Project:** Oso Comida Trailhead Improvements  
**Park:** Bear Arbor NRA  
**Park Alpha:** BEAR  
**PMIS:** XXXXXX  
**Estimate Date:** 12/16/2010  
**Prepared By:** YtB  
**Company:** NPS Bear Arbor NRA  
**Address:** 123 Bruin Meadows Rd.  
**City, State Zip:** Grizzley Hollow, CA 96023  
**Phone:** (555) 123-4567

**BACKGROUND SUPPORTING MATERIAL (Scope of Work):**

CBA Meeting meeting minutes and revisions to preferred alternative SD plans. The preferred alternative replaced the previously programmed vault toilets with a wet comfort station and septic system in response to a request by the Friends of Bruin Meadows group offer to fund an additional \$700k for the upgrade. The Scope of Work for the project now includes: Remove existing pit toilets; construct new Comfort Station, Septic system: 50 space paved parking area; Rehabilitate picnic area; Trail connection improvements; and fencing. The septic system incorporates a new technology in-tank sanitary treatment process that will be pre ordered and supplied by NPS as GFP. Purchase cost of tank and treatment materials is included in direct cost estimate.

**SOURCE OF COST DATA:**

Majority of costs are based on RS Means 2010 Assemblies Cost Data, 35th Annual Edition and 2010 Facilities Construction Cost Data (FCCD), 25th Annual Edition. Parking lot costs are based on actual, in-park FHWA road project on Bruin Meadows Road adjacent to site - adjusted down by -23% to remove remoteness, location & wage factors. Purchase price for the prefabricated Septic-King™ is an actual vendor quote FOB park warehouse. **WHENEVER RSMEANS BARE UNIT COSTS WERE USED FROM THE FCCD DATA, 10% WAS ADDED TO MATERIALS & EQUIPMENT AND 60% TO LABOR TO ACCOUNT FOR INSTALLER (Subcontractor) O&P**

**ESTIMATE ASSUMPTIONS:**

Estimate assumes that all improvements will be constructed as a single project during one construction season. East half of existing dirt parking area and trailhead will remain in operation until new paved lot and walk connections are completed. 2nd half of existing lot will be available for contractor laydown/equipment area, but contractor's labor force must park at maintenance yard 5 miles away and be shuttled into site. Shuttle costs and additional portable toilet cost impacts are included in Government Special Conditions. Septic-King™ system will be preordered by the Park to avoid long lead time from impacting installation schedule. Water for comfort station is assumed to be available from waterline in Bruin Meadows Road

**MAJOR CHANGES FROM PREVIOUS ESTIMATE:**

Previously programmed precast vault toilets have been replaced with a full service wet comfort station. Trail connection to Bruin Meadows overlook has been changed to integrally colored PCC Sidewalk for the entire 650' length. Three rail channelizing fence has been changed to single-rail seat-resistant wood rail.

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**Estimate Date:** 12/16/2010

**DESCRIPTION OF MARK-UP & ADD-ONS:**

Location Factor:	<u>6.30%</u>	Closest RS Means market Center is Redding CA; CCI=106.3
Remoteness Factor:	<u>13.0%</u>	Site is 130 miles from published commercial center. Good state highway access to site. Minor traffic impacts.
Wage Rate Factor:	<u>3.70%</u>	Compared local county Davis-Bacon wage rates to location adjusted RS Means wages for the trades anticipated.
State & Local Taxes:	<u>8.25%</u>	6% State Sales Tax plus 2.25% county and regional transportation district taxes. <b>See Comment Below</b>
Design Contingency:	<u>15.0%</u>	SD documents have few details. Scope of work is simple but since not defined in detail 15% is included for future changes
Standard. General Conditions:	<u>12.0%</u>	Relatively simple heavy/civil construction project, but the addition of wet comfort station, will increase job-site indirects from previous 10%
Government General Conditions:	<u>12.0%</u>	Higher than normal; Includes impacts associated with shuttling crews and maintaining public access to existing trail.
Historic Preservation Factor:	<u>3.00%</u>	Project is adjacent to a historical bridge and several cultural sites that will require protection/modification to plan.
Contractor Overhead:	<u>8.50%</u>	Normal mid-range for Small to medium sized Heavy/Civil contractor in this area
Contractor Profit:	<u>10.0%</u>	Economic downturn is easing and we anticipate modest increase in contractor profit by 2013 project date
Bonds and Permits:	<u>2.00%</u>	Standard to high range for low volume but established Heavy/Civil contractors. 0.5% added for building.
Contracting Method Adjustment:	<u>15.0%</u>	Preliminary indications are that negotiated sole-source SBA Section 8a or SDV procurement will be utilized.
Annual Inflation Escalation Factor:	<u>3.60%</u>	Anticipate easing of economic downturn will trigger mild inflation
Time Until Project Midpoint (Months)	<u>44</u>	RS Means data date of January 2010 until August 2013.

**OTHER COMMENTS:**

Grading plan is not complete, so quantities used are best estimate of typical costs for this type of construction. Since new comfort station will have deepened grade-beam/strip footing on piers w/PT slab on grade construction insufficient spoils will be generated to backfill existing pits. Assumed 100% import from NPS in park-stockpile.

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PMIS Number: XXXXXX

Estimate By: YtB  
Date: 12/16/10  
  
Reviewed By: BBB  
Date: 12/20/10

Asset / Project Element	Size/Count	Units
Trailhead with Comfort Station	1000	SF

Item No.	WBS	Description	Material Cost/Unit	Total Material Cost	Installation Cost/Unit	Total Install Cost	Direct Cost/Unit	Total Direct Costs	NET Cost/Unit	Total NET Costs
1	A10	Foundations	\$ 22.08	\$ 22,080	\$ 13.02	\$ 13,017	\$ 35.10	\$ 35,097	\$ 95.18	\$ 95,183
2	A20	Basement Construction	\$ 7.60	\$ 7,596	\$ 10.18	\$ 10,175	\$ 17.77	\$ 17,772	\$ 48.20	\$ 48,197
3	B10	Superstructure	\$ 6.56	\$ 6,564	\$ 4.70	\$ 4,699	\$ 11.26	\$ 11,263	\$ 30.55	\$ 30,546
4	B20	Exterior Enclosure	\$ 33.47	\$ 33,468	\$ 24.88	\$ 24,880	\$ 58.35	\$ 58,348	\$ 158.24	\$ 158,241
5	B30	Roofing	\$ 12.82	\$ 12,819	\$ 6.09	\$ 6,090	\$ 18.91	\$ 18,909	\$ 51.28	\$ 51,282
6	C10	Interior Construction	\$ 23.36	\$ 23,358	\$ 7.51	\$ 7,509	\$ 30.87	\$ 30,867	\$ 83.71	\$ 83,711
7	C20	Stairs	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
8	C30	Interior Finishes	\$ 3.43	\$ 3,429	\$ 10.91	\$ 10,912	\$ 14.34	\$ 14,341	\$ 38.89	\$ 38,893
9	D10	Conveying Systems	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
10	D20	Plumbing Systems	\$ 21.36	\$ 21,359	\$ 12.36	\$ 12,364	\$ 33.72	\$ 33,723	\$ 91.46	\$ 91,457
11	D30	HVAC	\$ 1.50	\$ 1,500	\$ 0.50	\$ 500	\$ 2.00	\$ 2,000	\$ 5.42	\$ 5,424
12	D40	Fire Protection	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
13	D50	Electrical	\$ 22.23	\$ 22,227	\$ 21.67	\$ 21,665	\$ 43.89	\$ 43,892	\$ 119.04	\$ 119,036
14	E10	Equipment	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
15	E20	Furnishings	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
16	F10	Special Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
17	F20	Selective Building Demolition	\$ 1.14	\$ 1,138	\$ 4.74	\$ 4,737	\$ 5.87	\$ 5,875	\$ 15.93	\$ 15,933
18	G10	Site Preparation	\$ 6.19	\$ 6,188	\$ 36.69	\$ 36,692	\$ 42.88	\$ 42,880	\$ 116.29	\$ 116,290
19	G20	Site Improvements	\$ 160.08	\$ 160,075	\$ 101.61	\$ 101,610	\$ 261.68	\$ 261,685	\$ 709.69	\$ 709,691
20	G30	Site Mechanical Utilities	\$ 60.00	\$ 60,000	\$ 14.00	\$ 14,000	\$ 74.00	\$ 74,000	\$ 200.69	\$ 200,689
21	G40	Site Electrical Utilities	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
22	G50	Other Site Construction	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -	\$ -
<b>Subtotal Direct Construction Costs</b>			<b>\$ 381.80</b>	<b>\$ 381,800</b>	<b>\$ 268.85</b>	<b>\$ 268,851</b>	<b>\$ 650.65</b>	<b>\$ 650,651</b>	<b>\$ 1,764.57</b>	<b>\$ 1,764,571</b>
<b>Total Value of Government Furnished Property (GFP) Included in Direct Costs</b>				<b>\$46,000.00</b>		<b>\$ -</b>	<b>\$ 46,000</b>	<b>\$ 46,000</b>	<b>In most cases GFP is normally zero - see footnote-</b>	
<b>Direct Cost Subtotal without GFP</b>				<b>\$ 335,800</b>		<b>\$ 268,851</b>		<b>\$ 604,651</b>		
<b>Published Location Factor</b>			6.30%					\$38,093	<b>Notes &amp; Comments:</b> Building only direct cost = \$294.32/sf. Building total NET cost = \$794.17/sf GFP Septic King Treatment System Pre-Purchased by Government = \$46,000	
<b>Remoteness Factor</b>			13.00%					\$78,605		
<b>Federal Wage Rate Factor</b>			3.70%		Generally applied against Labor Costs only.			\$9,947		
<b>State &amp; Local Taxes</b>			8.25%		Generally applied against Material Costs only, less GFP. Please Note if application differs.			\$27,704		
<b>Design Contingency</b>			15.00%					\$90,698		
<b>Total Direct Construction Costs</b>								<b>\$895,697</b>		
<b>Standard General Conditions</b>			12.00%		Applied to Total Direct Construction Cost less GFP			\$101,964		
<b>Government General Conditions</b>			12.00%		Applied to Total Direct Construction Cost less GFP			\$101,964		
<b>Historic Preservation Factor</b>			3.00%		Applied to Total Direct Construction Cost less GFP			\$25,491		
<b>Subtotal NET Construction Cost</b>								<b>\$1,125,115</b>		
<b>Overhead</b>			8.50%					\$91,725		
<b>Profit</b>			10.00%					\$107,911		
<b>Estimated NET Construction Cost</b>								<b>\$1,324,751</b>		
<b>Bonds &amp; Permits</b>			2.00%					\$26,495		
<b>Contracting Method Adjustment</b>			15.00%					\$198,713		
<b>Inflation Escalation</b>			44	Months	Annual Rate =	3.60%	Inc. Bonds & CMA	\$214,613		
<b>Total Estimated NET Cost of Construction</b>								<b>\$1,764,571</b>		

GFP costs are only used when the Government pre-purchases items, or provides other materials out of Government inventory, to be installed by contractor. Adjustments and Markup on GFP only include Inflation Escalation; No other adjustment factors or O&P markup have been applied.

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Class B Construction Cost Estimate (expanded)

**LINE ITEM COST SUMMARY**

Project: Oso Comida Trailhead Improvements  
 Park: Bear Arbor NRA  
 Park Alpha: BEAR  
 PMIS Number: XXXXXX

Estimate By: YtB  
 Date: 12/16/10  
 Reviewed By: BBB  
 Date: 12/20/10

Summary Item **A10 Foundations**

Total Cost: **\$35,097**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>A1010</b>	<b>STANDARD FOUNDATIONS</b>								
A1010 110-2500	RS Means Assembly A1010-110-2500	140	LF	\$ 14.55	\$2,037	\$ 22.50	\$3,150	\$ 37.05	\$5,187
	Furnish & Install 2" EPS insulation Board	560	SF	\$ 0.80	\$448	\$ 0.45	\$252	\$ 1.25	\$700
	Plus Crushable Void-form	140	LF	\$ 1.75	\$245	\$ 0.25	\$35	\$ 2.00	\$280
	<b>Installer overhead &amp; Profit included in Assembly</b>			\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>STANDARD FOUNDATIONS</b>	<b>1000</b>	<b>SF</b>	<b>\$ 2.73</b>	<b>\$2,730</b>	<b>\$ 3.44</b>	<b>\$3,437</b>	<b>\$ 6.17</b>	<b>\$6,167</b>

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>A1020</b>	<b>SPECIAL FOUNDATIONS</b>								
A1020 110-2220	Drilled caissons 10 ea x 25' long	16	EA	\$ 920.00	\$14,720	\$ 375.00	\$6,000	\$ 1,295.00	\$20,720
	Less steel shell, plus #4 rebar cage			\$ (35.00)	\$0	\$ (42.00)	\$0	\$ (77.00)	\$0
	<b>Installer overhead &amp; Profit included in Assembly</b>			\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>SPECIAL FOUNDATIONS</b>	<b>1000</b>	<b>SF</b>	<b>\$ 14.72</b>	<b>\$14,720</b>	<b>\$ 6.00</b>	<b>\$6,000</b>	<b>\$ 20.72</b>	<b>\$20,720</b>

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>A1030</b>	<b>SLAB ON GRADE - Includes 10' porch on both ends</b>								
A1030 120-4460	6" Slab on grade, trowel finish, no reinforcing	1000	SF	\$ 2.61	\$2,610	\$ 2.46	\$2,460	\$ 5.07	\$5,070
03 23 05.50-3100	Pre-stressing tendon in place	1000	SF	\$ 0.57	\$570	\$ 0.42	\$420	\$ 0.99	\$990
03 23 05.50-3105	Post tentioning after cure	1000	SF	\$ -	\$0	\$ 0.35	\$350	\$ 0.35	\$350
	Plus sand, rigid unsulation & Void-form	1000	SF	\$ 1.45	\$1,450	\$ 0.35	\$350	\$ 1.80	\$1,800
	<b>Installer overhead &amp; Profit included in Assembly</b>			\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>ends</b>	<b>1000</b>	<b>SF</b>	<b>\$ 4.63</b>	<b>\$4,630</b>	<b>\$ 3.58</b>	<b>\$3,580</b>	<b>\$ 8.21</b>	<b>\$8,210</b>

Summary Item **A10 Foundations**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>A10</b>	<b>Foundations</b>	<b>1000</b>	<b>SF</b>	<b>\$ 22.08</b>	<b>\$22,080</b>	<b>\$ 13.02</b>	<b>\$13,017</b>	<b>\$ 35.10</b>	<b>\$35,097</b>

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Project: Oso Comida Trailhead Improvements  
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Estimate By: YtB  
 Date: 12/16/10  
 Reviewed By: BBB  
 Date: 12/20/10

Summary Item **A20 Basement Construction**

Total Cost: \$0

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>A2020</b>	<b>BASEMENT WALLS</b>								
A2020 110-1520	48" x 8" Slab Edge Stem Wall w/reinforcing	140	LF	\$ 16.10	\$2,254	\$ 47.00	\$6,580	\$ 63.10	\$8,834
A2020 110-2240	Excavation & Backfill Foundation	560	SF	\$ 8.75	\$4,900	\$ 5.80	\$3,248	\$ 14.55	\$8,148
	dirt stockpile offsite, imported backfill			\$ -	\$0	\$ -	\$0	\$ -	\$0
	Rigid wall insulation	560	SF	\$ 0.79	\$442	\$ 0.62	\$347	\$ 1.41	\$790
<b>SUBTOTAL</b>	<b>BASEMENT WALLS</b>	<b>1000</b>	<b>SF</b>	<b>\$ 7.60</b>	<b>\$7,596</b>	<b>\$ 10.18</b>	<b>\$10,175</b>	<b>\$ 17.77</b>	<b>\$17,772</b>

Summary Item **A20 Basement Construction**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>A20</b>	<b>Basement Construction</b>	<b>1000</b>	<b>SF</b>	<b>\$ 7.60</b>	<b>\$7,596</b>	<b>\$ 10.18</b>	<b>\$10,175</b>	<b>\$ 17.77</b>	<b>\$17,772</b>

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Summary Item **B10 Superstructure**

Total Cost: \$11,263

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>B1020</b>	<b>ROOF CONSTRUCTION - Includes 10' porch cover on both ends</b>								
06 17 53.10-0300	Furnish & Install Wood Trusses 30' span	1750	SF	\$ 2.55	\$4,463	\$ 1.15	\$2,013	\$ 3.70	\$6,475
06 16 36.10-0103	1/2" cdx Plywood sheathing	1960	SF	\$ 0.46	\$902	\$ 0.65	\$1,274	\$ 1.11	\$2,176
	Misc. tie-downs,brackets & hardware allowance	1750	SF	\$ 0.20	\$350	\$ 0.35	\$613	\$ 0.55	\$963
	Heavy Timber Posts & Beams on porches	1	Allow	\$ 350.00	\$350	\$ 300.00	\$300	\$ 650.00	\$650
	Park-specific detailing allowance	1	Allow	\$ 500.00	\$500	\$ 500.00	\$500	\$ 1,000.00	\$1,000
				\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>cover on both ends</b>	<b>1000</b>	<b>SF</b>	<b>\$ 6.56</b>	<b>\$6,564</b>	<b>\$ 4.70</b>	<b>\$4,699</b>	<b>\$ 11.26</b>	<b>\$11,263</b>

Summary Item **B10 Superstructure**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>B10</b>	<b>Superstructure</b>	<b>1000</b>	<b>SF</b>	<b>\$ 6.56</b>	<b>\$6,564</b>	<b>\$ 4.70</b>	<b>\$4,699</b>	<b>\$ 11.26</b>	<b>\$11,263</b>

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 Date: 12/20/10

Summary Item **B20 Exterior Enclosure**

Total Cost: \$58,348

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>B2010</b>	<b>EXTERIOR WALLS</b>								
B2010 148-3400	8'-2x6 studwall, 16" O.C., w/R-21 insulation, 1/2" CDX, poly-wrap - Standard Assembly	1120	SF	\$ 3.56	\$3,987	\$ 5.40	\$6,048	\$ 8.96	\$10,035
	Less Exterior siding	1120	SF	\$ (1.51)	-\$1,691	\$ (1.52)	-\$1,702	\$ (3.03)	-\$3,394
04 43 10.05-0700	Stone Wainscot	560	SF	\$ 16.50	\$9,240	\$ 20.56	\$11,514	\$ 37.06	\$20,754
07 46 23.10-4100	Vertical B&B Rough Sawn Cedar Siding	450	SF	\$ 4.35	\$1,955	\$ 1.26	\$569	\$ 5.61	\$2,524
	Sustainability Upgrade	1120	SF	\$ 1.00	\$1,120	\$ 0.65	\$728	\$ 1.65	\$1,848
	Architectural upgrade allowance	1	Allow	\$ 2,500.00	\$2,500	\$ 2,500.00	\$2,500	\$ 5,000.00	\$5,000
	Privacy Screen End Panels - Allowance	320	SF	\$ 5.50	\$1,760	\$ 2.75	\$880	\$ 8.25	\$2,640
				\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>EXTERIOR WALLS</b>	<b>1000</b>	<b>SF</b>	<b>\$ 18.87</b>	<b>\$18,871</b>	<b>\$ 20.54</b>	<b>\$20,536</b>	<b>\$ 39.41</b>	<b>\$39,407</b>

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>B2020</b>	<b>EXTERIOR WINDOWS</b>								
B2020 102-3700	Wood Awning Windows, 34"x22", Dbl. pane, extra width sill, pre-finished custom color	16	EA	\$ 272.00	\$4,352	\$ 129.00	\$2,064	\$ 401.00	\$6,416
	Energy Upgrade	16	EA	\$ 30.00	\$480	\$ 5.00	\$80	\$ 35.00	\$560
	metal Cladding custom color upgrade	16		\$ 40.00	\$640	\$ 15.00	\$240	\$ 55.00	\$880
<b>SUBTOTAL</b>	<b>EXTERIOR WINDOWS</b>	<b>1000</b>	<b>SF</b>	<b>\$ 5.47</b>	<b>\$5,472</b>	<b>\$ 2.38</b>	<b>\$2,384</b>	<b>\$ 7.86</b>	<b>\$7,856</b>

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 Date: 12/16/10  
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 Date: 12/20/10

Summary Item **B20 Exterior Enclosure**

Total Cost: \$58,348

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>B2030</b>	<b>EXTERIOR DOORS</b>								
B2030 220-3950	Insulated Steel Door Assy. w/ 5-3/4" steel frame, lockset, hardware, pre-finished custom color, installed and adjusted	5	EA	\$ 1,600.00	\$8,000	\$ 350.00	\$1,750	\$ 1,950.00	\$9,750
	140Add Automatic Hydraulic Closer	5	Unit	\$ 225.00	\$1,125	\$ 42.00	\$210	\$ 267.00	\$1,335
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>EXTERIOR DOORS</b>	<b>1000</b>	<b>SF</b>	<b>\$ 9.13</b>	<b>\$9,125</b>	<b>\$ 1.96</b>	<b>\$1,960</b>	<b>\$ 11.09</b>	<b>\$11,085</b>

Summary Item **B20 Exterior Enclosure**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>B20</b>	<b>Exterior Enclosure</b>	<b>1000</b>	<b>SF</b>	<b>\$ 33.47</b>	<b>\$33,468</b>	<b>\$ 24.88</b>	<b>\$24,880</b>	<b>\$ 58.35</b>	<b>\$58,348</b>



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Estimate By: YtB  
 Date: 12/16/10  
 Reviewed By: BBB  
 Date: 12/20/10

Summary Item **B30 Roofing**

Total Cost: \$18,909

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>B3010</b>	<b>ROOF COVERINGS</b>								
07 41 13.20-0720	22 Ga. Raised seam steel roof - standard finish	1960	SF	\$ 6.11	\$11,966	\$ 2.41	\$4,722	\$ 8.51	\$16,687
07 41 13.20 - 1200	Roof Ridge Cap	70	LF	\$ 3.50	\$245	\$ 2.71	\$189	\$ 6.20	\$434
B301 430-	Misc. Fashings, Roof penetrations, boots hardware, etc.	1	LS	\$ 250.00	\$250	\$ 300.00	\$300	\$ 550.00	\$550
B3010 610-1200	5" Galvanized Gutters	140	LF	\$ 1.75	\$245	\$ 4.96	\$694	\$ 6.71	\$939
B3010 620-0200	Rectangular Downspouts	56	LF	\$ 2.02	\$113	\$ 3.30	\$185	\$ 5.32	\$298
<b>SUBTOTAL</b>	<b>ROOF COVERINGS</b>	<b>1000</b>	<b>SF</b>	<b>\$ 12.82</b>	<b>\$12,819</b>	<b>\$ 6.09</b>	<b>\$6,090</b>	<b>\$ 18.91</b>	<b>\$18,909</b>

Summary Item **B30 Roofing**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>B30</b>	<b>Roofing</b>	<b>1000</b>	<b>SF</b>	<b>\$ 12.82</b>	<b>\$12,819</b>	<b>\$ 6.09</b>	<b>\$6,090</b>	<b>\$ 18.91</b>	<b>\$18,909</b>

United States Department of the Interior  
National Park Service  
Class B Construction Cost Estimate (expanded)

**LINE ITEM COST SUMMARY**

Project: Oso Comida Trailhead Improvements  
 Park: Bear Arbor NRA  
 Park Alpha: BEAR  
 PMIS Number: XXXXXX

Estimate By: YtB  
 Date: 12/16/10  
 Reviewed By: BBB  
 Date: 12/20/10

Summary Item **C10 Interior Construction**

Total Cost: **\$30,867**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>C1010</b>	<b>INTERIOR PARTITIONS</b>								
C1010 124-2602	Interior wet wall partitions	500	SF	\$ 1.88	\$940	\$ 4.18	\$2,090	\$ 6.06	\$3,030
C1010 128-0840	5/8" WR drywall on inside of exterior walls	1440	SF	\$ 0.47	\$677	\$ 0.55	\$792	\$ 1.02	\$1,469
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>INTERIOR PARTITIONS</b>	<b>1000</b>	<b>SF</b>	<b>\$ 1.62</b>	<b>\$1,617</b>	<b>\$ 2.88</b>	<b>\$2,882</b>	<b>\$ 4.50</b>	<b>\$4,499</b>

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>C1030</b>	<b>FITTINGS</b>								
C1030 110-0600	Toilet Partitions F&C dual hung, Stainless Steel	5	EA	\$ 1,675.00	\$8,375	\$ 205.00	\$1,025	\$ 1,880.00	\$9,400
C1030 110-0620	Handicap addition	2	EA	\$ 315.00	\$630	\$ -	\$0	\$ 315.00	\$630
C1030 110-1140	Entrance Screens	4	EA	\$ 985.00	\$3,940	\$ 68.50	\$274	\$ 1,053.50	\$4,214
C1030 110-1380	Urinal Screens, Floor mounted, Stainless Steel	4	EA	\$ 630.00	\$2,520	\$ 128.00	\$512	\$ 758.00	\$3,032
C1030 830-0170	Vanity Counter	16	LF	\$ 236.00	\$3,776	\$ 51.00	\$816	\$ 287.00	\$4,592
C1030 710-	Bathroom Accessories Allowance	1	Allow	\$ 2,500.00	\$2,500	\$ 2,000.00	\$2,000	\$ 4,500.00	\$4,500
<b>SUBTOTAL</b>	<b>FITTINGS</b>	<b>1000</b>	<b>SF</b>	<b>\$ 21.74</b>	<b>\$21,741</b>	<b>\$ 4.63</b>	<b>\$4,627</b>	<b>\$ 26.37</b>	<b>\$26,368</b>

Summary Item **C10 Interior Construction**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>C10</b>	<b>Interior Construction</b>	<b>1000</b>	<b>SF</b>	<b>\$ 23.36</b>	<b>\$23,358</b>	<b>\$ 7.51</b>	<b>\$7,509</b>	<b>\$ 30.87</b>	<b>\$30,867</b>

United States Department of the Interior  
National Park Service  
Class B Construction Cost Estimate (expanded)

**LINE ITEM COST SUMMARY**

Project: Oso Comida Trailhead Improvements  
 Park: Bear Arbor NRA  
 Park Alpha: BEAR  
 PMIS Number: XXXXXX

Estimate By: YtB  
 Date: 12/16/10  
 Reviewed By: BBB  
 Date: 12/20/10

Summary Item **C30 Interior Finishes**

Total Cost: \$14,341

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>C3010</b>	<b>WALL FINISHES</b>								
C3020 230-1080	Epoxy wall Coating	1600	SF	\$ 1.06	\$1,696	\$ 2.98	\$4,768	\$ 4.04	\$6,464
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>WALL FINISHES</b>	<b>1000</b>	<b>SF</b>	<b>\$ 1.70</b>	<b>\$1,696</b>	<b>\$ 4.77</b>	<b>\$4,768</b>	<b>\$ 6.46</b>	<b>\$6,464</b>

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>C3020</b>	<b>FLOOR FINISHES</b>								
03 35 29.3-4050	2 Coat Epoxy Floor Finish	1000	SF	\$ 0.25	\$253	\$ 0.70	\$704	\$ 0.96	\$957
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>FLOOR FINISHES</b>	<b>1000</b>	<b>SF</b>	<b>\$ 0.25</b>	<b>\$253</b>	<b>\$ 0.70</b>	<b>\$704</b>	<b>\$ 0.96</b>	<b>\$957</b>

United States Department of the Interior  
National Park Service  
Class B Construction Cost Estimate (expanded)

**LINE ITEM COST SUMMARY**

Project: Oso Comida Trailhead Improvements  
 Park: Bear Arbor NRA  
 Park Alpha: BEAR  
 PMIS Number: XXXXXX

Estimate By: YtB  
 Date: 12/16/10  
 Reviewed By: BBB  
 Date: 12/20/10

Summary Item **C30 Interior Finishes**

Total Cost: \$14,341

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>C3030</b>	<b>CEILING FINISHES</b>								
C3030 105 2400	2-coat Gypsum Drywall on Furring painted	1000	SF	\$ 1.48	\$1,480	\$ 5.44	\$5,440	\$ 6.92	\$6,920
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>CEILING FINISHES</b>	<b>1000</b>	<b>SF</b>	<b>\$ 1.48</b>	<b>\$1,480</b>	<b>\$ 5.44</b>	<b>\$5,440</b>	<b>\$ 6.92</b>	<b>\$6,920</b>

Summary Item **C30 Interior Finishes**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>C30</b>	<b>Interior Finishes</b>	<b>1000</b>	<b>SF</b>	<b>\$ 3.43</b>	<b>\$3,429</b>	<b>\$ 10.91</b>	<b>\$10,912</b>	<b>\$ 14.34</b>	<b>\$14,341</b>

United States Department of the Interior  
National Park Service  
Class B Construction Cost Estimate (expanded)

**LINE ITEM COST SUMMARY**

Project: Oso Comida Trailhead Improvements  
 Park: Bear Arbor NRA  
 Park Alpha: BEAR  
 PMIS Number: XXXXXX

Estimate By: YtB  
 Date: 12/16/10  
 Reviewed By: BBB  
 Date: 12/20/10

Summary Item **D20 Plumbing Systems**

Total Cost: **\$33,723**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>D2010</b>	<b>PLUMBING FIXTURES</b>								
D2010 120-1760	Water Closets, Battery Mount, Wall hung, SxS, 1st	2	Ea	\$ 1,500.00	\$3,000	\$ 775.00	\$1,550	\$ 2,275.00	\$4,550
D2010 120-1800	Additional Closet Sets	3	Ea	\$ 1,425.00	\$4,275	\$ 730.00	\$2,190	\$ 2,155.00	\$6,465
D2010 210-2000	Wall hung Urinals	2	Ea	\$ 565.00	\$1,130	\$ 745.00	\$1,490	\$ 1,310.00	\$2,620
D 2010 310-1760	Stainless Steel sinks, Self Rimming	5	EA	\$ 660.00	\$3,300	\$ 665.00	\$3,325	\$ 1,325.00	\$6,625
ADA Upgrade	Accessibility Upgrade	5	Ea	\$ 50.00	\$250	\$ 55.00	\$275	\$ 105.00	\$525
D2010 440-4260	Floor Sevice Sink Complete	1	Unit	\$ 1,580.00	\$1,580	\$ 940.00	\$940	\$ 2,520.00	\$2,520
Allowance	NPS sustainablity & durability upgrade	1	Allow	\$ 3,383.75	\$3,384	\$ 169.19	\$169	\$ 3,552.94	\$3,553
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>PLUMBING FIXTURES</b>	<b>1000</b>	<b>SF</b>	<b>\$ 16.92</b>	<b>\$16,919</b>	<b>\$ 9.94</b>	<b>\$9,939</b>	<b>\$ 26.86</b>	<b>\$26,858</b>

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>D2020</b>	<b>DOMESTIC WATER DISTRIBUTION</b>								
D220	Additional Rough In piping Allowance	1	Allow	\$ 1,250.00	\$1,250	\$ 500.00	\$500	\$ 1,750.00	\$1,750
D220 250-1780	Gas Water Heater Assembly	1	Ea	\$ 2,690.00	\$2,690	\$ 1,675.00	\$1,675	\$ 4,365.00	\$4,365
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>DOMESTIC WATER DISTRIBUTION</b>	<b>1000</b>	<b>SF</b>	<b>\$ 3.94</b>	<b>\$3,940</b>	<b>\$ 2.18</b>	<b>\$2,175</b>	<b>\$ 6.12</b>	<b>\$6,115</b>

United States Department of the Interior  
National Park Service  
Class B Construction Cost Estimate (expanded)

**LINE ITEM COST SUMMARY**

Project: Oso Comida Trailhead Improvements  
 Park: Bear Arbor NRA  
 Park Alpha: BEAR  
 PMIS Number: XXXXXX

Estimate By: YtB  
 Date: 12/16/10  
 Reviewed By: BBB  
 Date: 12/20/10

**Summary Item D20 Plumbing Systems**

**Total Cost: \$33,723**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>D2030</b>	<b>SANITARY WASTE</b>								
D2030	Additional Waste piping allowance	1	Allow	\$ 500.00	\$500	\$ 250.00	\$250	\$ 750.00	\$750
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>SANITARY WASTE</b>	<b>1000</b>	<b>SF</b>	<b>\$ 0.50</b>	<b>\$500</b>	<b>\$ 0.25</b>	<b>\$250</b>	<b>\$ 0.75</b>	<b>\$750</b>

**Summary Item D20 Plumbing Systems**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>D20</b>	<b>Plumbing Systems</b>	<b>1000</b>	<b>SF</b>	<b>\$ 21.36</b>	<b>\$21,359</b>	<b>\$ 12.36</b>	<b>\$12,364</b>	<b>\$ 33.72</b>	<b>\$33,723</b>

United States Department of the Interior  
National Park Service  
Class B Construction Cost Estimate (expanded)

**LINE ITEM COST SUMMARY**

Project: Oso Comida Trailhead Improvements  
 Park: Bear Arbor NRA  
 Park Alpha: BEAR  
 PMIS Number: XXXXXX

Estimate By: YtB  
 Date: 12/16/10  
 Reviewed By: BBB  
 Date: 12/20/10

Summary Item **D30 HVAC**

Total Cost: **\$2,000**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>D3040</b>	<b>DISTRIBUTION SYSTEMS (HVAC)</b>								
D3040 -Allow	Summer Ventilaiton system	1	Allow	\$ 1,500.00	\$1,500	\$ 500.00	\$500	\$ 2,000.00	\$2,000
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>DISTRIBUTION SYSTEMS (HVAC)</b>	<b>1000</b>	<b>SF</b>	<b>\$ 1.50</b>	<b>\$1,500</b>	<b>\$ 0.50</b>	<b>\$500</b>	<b>\$ 2.00</b>	<b>\$2,000</b>

Summary Item **D30 HVAC**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>D30</b>	<b>HVAC</b>	<b>1000</b>	<b>SF</b>	<b>\$ 1.50</b>	<b>\$1,500</b>	<b>\$ 0.50</b>	<b>\$500</b>	<b>\$ 2.00</b>	<b>\$2,000</b>

United States Department of the Interior  
National Park Service  
Class B Construction Cost Estimate (expanded)

**LINE ITEM COST SUMMARY**

Project: Oso Comida Trailhead Improvements  
 Park: Bear Arbor NRA  
 Park Alpha: BEAR  
 PMIS Number: XXXXXX

Estimate By: YtB  
 Date: 12/16/10  
 Reviewed By: BBB  
 Date: 12/20/10

Summary Item **D50 Electrical**

Total Cost: \$43,892

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>D5010</b>	<b>ELECTRICAL SERVICE &amp; DISTRIBUTION</b>								
D5050 120-0620	1phz. 200 Amp, 120/208V, Service Panel & feeders	1	EA	\$ 1,100.00	\$1,100	\$ 1,425.00	\$1,425	\$ 2,525.00	\$2,525
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>ELECTRICAL SERVICE &amp; DISTRIBUTION</b>	<b>1000</b>	<b>SF</b>	<b>\$ 1.10</b>	<b>\$1,100</b>	<b>\$ 1.43</b>	<b>\$1,425</b>	<b>\$ 2.53</b>	<b>\$2,525</b>

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>D5020</b>	<b>LIGHTING &amp; BRANCH WIRING</b>								
D5020 210-0520	Energy Saving Fluorescent lighting	800	SF	\$ 1.76	\$1,408	\$ 3.37	\$2,696	\$ 5.13	\$4,104
D5020 216-0200	Utility Chase lighting	200	SF	\$ 1.02	\$204	\$ 1.37	\$274	\$ 2.39	\$478
D5020 120-0760	Receptacles	800	SF	\$ 0.60	\$480	\$ 2.16	\$1,728	\$ 2.76	\$2,208
D5020 120-0800	Switches	800	SF	\$ 0.20	\$160	\$ 0.64	\$512	\$ 0.84	\$672
D5020 145 0360	230V wiring to septic system	1	EA	\$ 675.00	\$675	\$ 900.00	\$900	\$ 1,575.00	\$1,575
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>LIGHTING &amp; BRANCH WIRING</b>	<b>1000</b>	<b>SF</b>	<b>\$ 2.93</b>	<b>\$2,927</b>	<b>\$ 6.11</b>	<b>\$6,110</b>	<b>\$ 9.04</b>	<b>\$9,037</b>

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>D5040</b>	<b>SPECIAL ELECTRICAL SYSTEMS</b>								
D5040 420-0100	PV System Allowance	3000	Watt	\$ 5.25	\$15,750	\$ 3.75	\$11,250	\$ 9.00	\$27,000
D5040 420-1050	Battery Storage	0	EA	\$ 850.00	\$0	\$ 300.00	\$0	\$ 1,150.00	\$0
Misc.	Misc. Installation Costs	1	LS	\$ 1,200.00	\$1,200	\$ 500.00	\$500	\$ 1,700.00	\$1,700
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>SPECIAL ELECTRICAL SYSTEMS</b>	<b>1000</b>	<b>SF</b>	<b>\$ 16.95</b>	<b>\$16,950</b>	<b>\$ 11.75</b>	<b>\$11,750</b>	<b>\$ 28.70</b>	<b>\$28,700</b>



United States Department of the Interior  
National Park Service  
Class B Construction Cost Estimate (expanded)

**LINE ITEM COST SUMMARY**

Project: Oso Comida Trailhead Improvements  
 Park: Bear Arbor NRA  
 Park Alpha: BEAR  
 PMIS Number: XXXXXX

Estimate By: YtB  
 Date: 12/16/10  
 Reviewed By: BBB  
 Date: 12/20/10

Summary Item **D50 Electrical**

Total Cost: \$43,892

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>D5090</b>	<b>OTHER ELECTRICAL SYSTEMS</b>								
D5090 510-1000	Baseboard Heat for shoulder season only	1000	SF	\$ 1.25	\$1,250	\$ 2.38	\$2,380	\$ 3.63	\$3,630
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>OTHER ELECTRICAL SYSTEMS</b>	<b>1000</b>	<b>SF</b>	<b>\$ 1.25</b>	<b>\$1,250</b>	<b>\$ 2.38</b>	<b>\$2,380</b>	<b>\$ 3.63</b>	<b>\$3,630</b>

Summary Item **D50 Electrical**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>D50</b>	<b>Electrical</b>	<b>1000</b>	<b>SF</b>	<b>\$ 22.23</b>	<b>\$22,227</b>	<b>\$ 21.67</b>	<b>\$21,665</b>	<b>\$ 43.89</b>	<b>\$43,892</b>

United States Department of the Interior  
National Park Service  
Class B Construction Cost Estimate (expanded)

**LINE ITEM COST SUMMARY**

Project: Oso Comida Trailhead Improvements  
 Park: Bear Arbor NRA  
 Park Alpha: BEAR  
 PMIS Number: XXXXXX

Estimate By: YtB  
 Date: 12/16/10  
 Reviewed By: BBB  
 Date: 12/20/10

Summary Item **F20 Selective Building Demolition**

Total Cost: \$5,875

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>F2010</b>	<b>BUILDING ELEMENTS DEMOLITION</b>								
Optional Code	Demo structures- haul to dump; Means Crew B-30	1	Day	\$ -	\$0	\$ 3,987.86	\$3,988	\$ 3,987.86	\$3,988
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>BUILDING ELEMENTS DEMOLITION</b>	<b>1000</b>	<b>SF</b>	<b>\$ 0.70</b>	<b>\$700</b>	<b>\$ 3.99</b>	<b>\$3,988</b>	<b>\$ 4.69</b>	<b>\$4,688</b>

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>F2020</b>	<b>HAZARDOUS COMPONENTS ABATEMENT</b>								
Optional Code	Pump & Flush existing pits	1	LS	\$ -	\$0	\$ 500.00	\$500	\$ 500.00	\$500
Optional Code	Import, Backfill & hand compact pits	50	CY	\$ 8.75	\$438	\$ 4.99	\$250	\$ 13.74	\$687
Optional Code	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>HAZARDOUS COMPONENTS ABATEMENT</b>	<b>1000</b>	<b>SF</b>	<b>\$ 0.44</b>	<b>\$438</b>	<b>\$ 0.75</b>	<b>\$750</b>	<b>\$ 1.19</b>	<b>\$1,187</b>

Summary Item **F20 Selective Building Demolition**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>F20</b>	<b>Selective Building Demolition</b>	<b>1000</b>	<b>SF</b>	<b>\$ 1.14</b>	<b>\$1,138</b>	<b>\$ 4.74</b>	<b>\$4,737</b>	<b>\$ 5.87</b>	<b>\$5,875</b>

United States Department of the Interior  
National Park Service  
Class B Construction Cost Estimate (expanded)

**LINE ITEM COST SUMMARY**

Project: Oso Comida Trailhead Improvements  
 Park: Bear Arbor NRA  
 Park Alpha: BEAR  
 PMIS Number: XXXXXX

Estimate By: YtB  
 Date: 12/16/10  
 Reviewed By: BBB  
 Date: 12/20/10

Summary Item **G10 Site Preparation**

Total Cost: \$42,880

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>G1010</b>	<b>SITE CLEARING</b>								
	Erosion Control	1	Allow	\$ 4,000.00	\$4,000	\$ 2,500.00	\$2,500	\$ 6,500.00	\$6,500
	Clear & Grub Parking Area	40000	SF	\$ -	\$0	\$ 0.25	\$10,000	\$ 0.25	\$10,000
	Selective Tree Removal	10	EA	\$ -	\$0	\$ 350.00	\$3,500	\$ 350.00	\$3,500
	Misc. Site Clearing	1	LS	\$ -	\$0	\$ 2,500.00	\$2,500	\$ 2,500.00	\$2,500
	Hand Clear New Trail Alignment	500	LF	\$ -	\$0	\$ 5.00	\$2,500	\$ 5.00	\$2,500
	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>SITE CLEARING</b>	<b>1000</b>	<b>SF</b>	<b>\$ 4.00</b>	<b>\$4,000</b>	<b>\$ 21.00</b>	<b>\$21,000</b>	<b>\$ 25.00</b>	<b>\$25,000</b>

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>G1020</b>	<b>SITE DEMOLITION &amp; RELOCATIONS</b>								
	Misc. site Demolition	1	LS	\$ -	\$0	\$ 1,500.00	\$1,500	\$ 1,500.00	\$1,500
	Remove Existing Picnic Tables & Grills	1	LS	\$ -	\$0	\$ 2,500.00	\$2,500	\$ 2,500.00	\$2,500
	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>SITE DEMOLITION &amp; RELOCATIONS</b>	<b>1000</b>	<b>SF</b>	<b>\$ -</b>	<b>\$0</b>	<b>\$ 4.00</b>	<b>\$4,000</b>	<b>\$ 4.00</b>	<b>\$4,000</b>

United States Department of the Interior  
National Park Service  
Class B Construction Cost Estimate (expanded)

**LINE ITEM COST SUMMARY**

Project: Oso Comida Trailhead Improvements  
 Park: Bear Arbor NRA  
 Park Alpha: BEAR  
 PMIS Number: XXXXXX

Estimate By: YtB  
 Date: 12/16/10  
 Reviewed By: BBB  
 Date: 12/20/10

Summary Item **G10 Site Preparation**

Total Cost: \$42,880

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>G1030</b>	<b>SITE EARTHWORK</b>								
	Imported fill for building Pad	250	CY	\$ 8.75	\$2,188	\$ 4.99	\$1,248	\$ 13.74	\$3,435
	Onsite Cut to fill	1500	CY	\$ -	\$0	\$ 3.81	\$5,715	\$ 3.81	\$5,715
	Fine Grade Building Pad	2000	SF	\$ -	\$0	\$ 0.25	\$500	\$ 0.25	\$500
	Clean-up and Fine Grade around Building	5000	SF	\$ -	\$0	\$ 0.15	\$750	\$ 0.15	\$750
	Backfill & Compact existing pits	50	CY	\$ -	\$0	\$ 4.99	\$250	\$ 4.99	\$250
	Fine Grade & Compact Picnic subgrades	3500	SF	\$ -	\$0	\$ 0.30	\$1,050	\$ 0.30	\$1,050
	Hand Grade Trail	3000	SF	\$ -	\$0	\$ 0.50	\$1,500	\$ 0.50	\$1,500
	G1030 Scarify existing dirt parking lot	10000	SF	\$ -	\$0	\$ 0.05	\$500	\$ 0.05	\$500
	Scarify Existing Trail 500' x 3'	1500	SF	\$ -	\$0	\$ 0.12	\$180	\$ 0.12	\$180
<b>SUBTOTAL</b>	<b>SITE EARTHWORK</b>	<b>1000</b>	<b>SF</b>	<b>\$ 2.19</b>	<b>\$2,188</b>	<b>\$ 11.69</b>	<b>\$11,692</b>	<b>\$ 13.88</b>	<b>\$13,880</b>

Summary Item **G10 Site Preparation**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>G10</b>	<b>Site Preparation</b>	<b>1000</b>	<b>SF</b>	<b>\$ 6.19</b>	<b>\$6,188</b>	<b>\$ 36.69</b>	<b>\$36,692</b>	<b>\$ 42.88</b>	<b>\$42,880</b>

United States Department of the Interior  
National Park Service  
Class B Construction Cost Estimate (expanded)

**LINE ITEM COST SUMMARY**

Project: Oso Comida Trailhead Improvements  
Park: Bear Arbor NRA  
Park Alpha: BEAR  
PMIS Number: XXXXXX

Estimate By: YtB  
Date: 12/16/10  
Reviewed By: BBB  
Date: 12/20/10

Summary Item **G20 Site Improvements**

Total Cost: **\$261,685**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>G2010</b>	<b>ROADWAYS</b>								
Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>G2020</b>	<b>PARKING LOTS</b>								
	Subgrade Prep Parking Lot	4050	SY	\$ -	\$0	\$ 0.75	\$3,038	\$ 0.75	\$3,038
	Furnish & Install 6" Roadbase	4050	SY	\$ 4.75	\$19,238	\$ 4.00	\$16,200	\$ 8.75	\$35,438
	Furnish & Install 3" Asphalt Paving	4050	SY	\$ 8.75	\$35,438	\$ 4.50	\$18,225	\$ 13.25	\$53,663
	Striping	46	Spaces	\$ 10.00	\$460	\$ 32.00	\$1,472	\$ 42.00	\$1,932
	Accessible spaces	4	EA	\$ 85.00	\$340	\$ 165.00	\$660	\$ 250.00	\$1,000
	Sign Allowance	1	Allow	\$ 2,000.00	\$2,000	\$ 500.00	\$500	\$ 2,500.00	\$2,500
	Curb & Gutter	1000	LF	\$ 10.00	\$10,000	\$ 12.50	\$12,500	\$ 22.50	\$22,500
				\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>PARKING LOTS</b>	<b>1000</b>	<b>SF</b>	<b>\$ 67.48</b>	<b>\$67,475</b>	<b>\$ 52.59</b>	<b>\$52,595</b>	<b>\$ 120.07</b>	<b>\$120,070</b>

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>G2030</b>	<b>PEDESTRIAN PAVING</b>								
	Pedestrian Sidewalks at parking lot	3500	SF	\$ 4.00	\$14,000	\$ 2.50	\$8,750	\$ 6.50	\$22,750
	Handicap Ramps	2	EA	\$ 400.00	\$800	\$ 450.00	\$900	\$ 850.00	\$1,700
	Furnish & Install Decomposed Granite DG	170	Tons	\$ 45.00	\$7,650	\$ 17.00	\$2,890	\$ 62.00	\$10,540
	Mix, spread, finegrade & compact organic binder	6500	SF	\$ 1.00	\$6,500	\$ 0.50	\$3,250	\$ 1.50	\$9,750
	Pedestrian Sidewalks-Trial Connection	1500	SF	\$ 4.00	\$6,000	\$ 2.50	\$3,750	\$ 6.50	\$9,750
	Concrete Flatwork at Building	2000	SF	\$ 4.00	\$8,000	\$ 2.50	\$5,000	\$ 6.50	\$13,000
			Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>PEDESTRIAN PAVING</b>	<b>1000</b>	<b>SF</b>	<b>\$ 42.95</b>	<b>\$42,950</b>	<b>\$ 24.54</b>	<b>\$24,540</b>	<b>\$ 67.49</b>	<b>\$67,490</b>

United States Department of the Interior  
National Park Service  
Class B Construction Cost Estimate (expanded)

**LINE ITEM COST SUMMARY**

Project: Oso Comida Trailhead Improvements  
 Park: Bear Arbor NRA  
 Park Alpha: BEAR  
 PMIS Number: XXXXXX

Estimate By: YtB  
 Date: 12/16/10  
 Reviewed By: BBB  
 Date: 12/20/10

Summary Item **G20 Site Improvements**

Total Cost: **\$261,685**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>G2040</b>	<b>SITE DEVELOPMENT</b>								
	Install new seat resistant single rail fence	500	LF	\$ 35.00	\$17,500	\$ -	\$0	\$ 35.00	\$17,500
				\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>SITE DEVELOPMENT</b>	<b>1000</b>	<b>SF</b>	<b>\$ 17.50</b>	<b>\$17,500</b>	<b>\$ -</b>	<b>\$0</b>	<b>\$ 17.50</b>	<b>\$17,500</b>

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>G2050</b>	<b>LANDSCAPING</b>								
	Parking lot landscape allowance	1	LS	\$ 15,000.00	\$15,000	\$ 5,000.00	\$5,000	\$ 20,000.00	\$20,000
	Picnic Area landscape repairs & improvements	1	LS	\$ 500.00	\$500	\$ 2,000.00	\$2,000	\$ 2,500.00	\$2,500
	Trail landscape repairs & improvements	1	LS	\$ 500.00	\$500	\$ 2,000.00	\$2,000	\$ 2,500.00	\$2,500
	Soil amenders	11500	SF	\$ 0.10	\$1,150	\$ 0.15	\$1,725	\$ 0.25	\$2,875
	Place Barrier Rocks	1	Allow	\$ -	\$0	\$ 2,500.00	\$2,500	\$ 2,500.00	\$2,500
	Install native shrubs	150	EA	\$ 30.00	\$4,500	\$ 15.00	\$2,250	\$ 45.00	\$6,750
	Install Selective Trees	20	EA	\$ 250.00	\$5,000	\$ 100.00	\$2,000	\$ 350.00	\$7,000
				\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>LANDSCAPING</b>	<b>1000</b>	<b>SF</b>	<b>\$ 26.65</b>	<b>\$26,650</b>	<b>\$ 17.48</b>	<b>\$17,475</b>	<b>\$ 44.13</b>	<b>\$44,125</b>

United States Department of the Interior  
National Park Service  
Class B Construction Cost Estimate (expanded)

**LINE ITEM COST SUMMARY**

Project: Oso Comida Trailhead Improvements  
 Park: Bear Arbor NRA  
 Park Alpha: BEAR  
 PMIS Number: XXXXXX

Estimate By: YtB  
 Date: 12/16/10  
 Reviewed By: BBB  
 Date: 12/20/10

Summary Item **G20 Site Improvements**

Total Cost: \$261,685

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>G2060</b>	<b>SITE FURNISHINGS</b>								
	Misc Site Furnishings	1	Allow	\$ 1,500.00	\$1,500	\$ 1,000.00	\$1,000	\$ 2,500.00	\$2,500
	Reinstall Site Furnishings at Picnic area	1	LS	\$ 4,000.00	\$4,000	\$ 6,000.00	\$6,000	\$ 10,000.00	\$10,000
	Description	0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
				\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>SITE FURNISHINGS</b>	<b>1000</b>	<b>SF</b>	<b>\$ 5.50</b>	<b>\$5,500</b>	<b>\$ 7.00</b>	<b>\$7,000</b>	<b>\$ 12.50</b>	<b>\$12,500</b>

Summary Item **G20 Site Improvements**

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>G20</b>	<b>Site Improvements</b>	<b>1000</b>	<b>SF</b>	<b>\$ 160.08</b>	<b>\$160,075</b>	<b>\$ 101.61</b>	<b>\$101,610</b>	<b>\$ 261.68</b>	<b>\$261,685</b>

United States Department of the Interior  
National Park Service  
Class B Construction Cost Estimate (expanded)

**LINE ITEM COST SUMMARY**

Project: Oso Comida Trailhead Improvements  
 Park: Bear Arbor NRA  
 Park Alpha: BEAR  
 PMIS Number: XXXXXX

Estimate By: YtB  
 Date: 12/16/10  
 Reviewed By: BBB  
 Date: 1220/10

Summary Item **G30 Site Mechanical Utilities**

Total Cost: \$74,000

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>G3010</b>	<b>WATER SUPPLY</b>								
	Water Connection to Bruin Meadows Road	1	Allow	\$ 3,500.00	\$3,500	\$ 5,500.00	\$5,500	\$ 9,000.00	\$9,000
		0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
		0	Unit	\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>WATER SUPPLY</b>	<b>1000</b>	<b>SF</b>	<b>\$ 3.50</b>	<b>\$3,500</b>	<b>\$ 5.50</b>	<b>\$5,500</b>	<b>\$ 9.00</b>	<b>\$9,000</b>

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>G3020</b>	<b>SANITARY SEWER</b>								
	Install Septic King Tank & Treatment system	1	LS	\$ 46,000.00	\$46,000	\$ 3,500.00	\$3,500	\$ 49,500.00	\$49,500
	Install Leach field	1	LS	\$ 7,500.00	\$7,500	\$ 3,000.00	\$3,000	\$ 10,500.00	\$10,500
				\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>SANITARY SEWER</b>	<b>1000</b>	<b>SF</b>	<b>\$ 53.50</b>	<b>\$53,500</b>	<b>\$ 6.50</b>	<b>\$6,500</b>	<b>\$ 60.00</b>	<b>\$60,000</b>

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>G3030</b>	<b>STORM SEWER</b>								
Optional Code	Parking Lot Drainage Improvements	1	Allow	\$ 3,000.00	\$3,000	\$ 2,000.00	\$2,000	\$ 5,000.00	\$5,000
				\$ -	\$0	\$ -	\$0	\$ -	\$0
				\$ -	\$0	\$ -	\$0	\$ -	\$0
<b>SUBTOTAL</b>	<b>STORM SEWER</b>	<b>1000</b>	<b>SF</b>	<b>\$ 3.00</b>	<b>\$3,000</b>	<b>\$ 2.00</b>	<b>\$2,000</b>	<b>\$ 5.00</b>	<b>\$5,000</b>

Uniformat II WBS Code	Description	Quantity	Unit	MATERIAL		INSTALLATION		TOTALS	
				Material Cost/Unit	Total Material Cost	Install Cost/Unit	Total Install Cost	Total Cost/Unit	Total Cost
<b>G30</b>	<b>Site Mechanical Utilities</b>	<b>1000</b>	<b>SF</b>	<b>\$ 60.00</b>	<b>\$60,000</b>	<b>\$ 14.00</b>	<b>\$14,000</b>	<b>\$ 74.00</b>	<b>\$74,000</b>