



CALIFORNIA'S  
COALITION  
*for* ADEQUATE  
SCHOOL HOUSING<sup>SM</sup>

[www.cashnet.org](http://www.cashnet.org)

---

**C.A.S.H. WORKSHOP**  
**Plan Verification Team (PVT)**

**Friday, December 11, 2009**

9:00 a.m. to 12:30 p.m.

Ontario Airport Marriott  
2200 East Holt Boulevard  
Ontario, California

**THE COST ESTIMATE:**

What to Include and How to Break it Down for OPSC

**HELENA JUBANY**

Jubany-NAC | Architecture

---

CALIFORNIA'S COALITION *for* ADEQUATE SCHOOL HOUSING

1130 K Street, Suite 210 • Sacramento, CA 95814 • Phone (916) 448-8577 • Fax (916) 448-7495 • [www.cashnet.org](http://www.cashnet.org)

Handout materials are available online after the workshop. To download the materials, visit [www.cashnet.org/meetings](http://www.cashnet.org/meetings) and click on the link labeled "Workshop and Conference Handouts."



CALIFORNIA'S  
COALITION  
*for* ADEQUATE  
SCHOOL HOUSING®



# "THE" Cost Estimate

**Helena Jubany**  
*Jubany-NAC|Architecture*



# SITE DEVELOPMENT WORKSHEET

**SITE DEVELOPMENT WORKSHEET FOR ADDITIONAL GRANTS**

(Rev. 10/06)

SCHOOL DISTRICT	5 DIGIT DISTRICT CODE
SCHOOL NAME	COUNTY
ARCHITECTS FIRM	DATE OF ESTIMATE
	PREPARED BY
	SIGNATURE

Plan Ref.	CSI #	Description	Quantity	Unit	Unit Cost	Total	Remark
		<b>(A) SERVICE SITE DEVELOPMENT</b>	(Go To Off-Site)		(Go To Utility)		
		<b>A1. Site Clearance - Section 1859.76(a)(1)</b>					
		Removal of trees, brush and debris.					
		<b>Site Preparation</b>					
		Clear, grub, brush, turf, roots, disposal		SF			
		<b>Tree Removal</b>					
		Remove tree, 6"-8", off site disposal		EA			
		Remove tree, 10"-14", off site disposal		EA			
		Remove tree, 20"-30", off site disposal		EA			
				A1. Site Clearance:	\$	-	
		<b>A2. Demolition - Section 1859.76(a)(2)</b>					
		Demolition and removal of existing buildings and site improvements that lie in the footprint of a building or proposed site development.					
		<b>Asphalt &amp; Concrete Paving Removal</b>					
		Remove pavement, asphalt, 5,000 to 25,000 sqft.		SF			
		Remove pavement, asphalt, 25,000 to 50,000 sqft.		SF			
		Remove pavement, asphalt, over 50,000 sqft.		SF			
		Remove concrete slab, 5" max, with rebar		SF			
		Remove concrete curb/gutter, no sawing		LF			
		Remove concrete curb-planter & batter board		SF			
		Remove concrete sidewalk, outside building		SF			
		<b>Fence &amp; Guardrail Removal</b>					
		Remove fence, chain link, 6", dispose		LF			
		Remove fence, wood, 6", dispose		LF			
		Remove guardrail, dispose		LF			
		<b>Building Demolition</b>					
		Frame building, single story		SF			
		Frame building, two story		SF			
		Frame building, three story		SF			
		Concrete block building, 2 story, no concrete columns		SF			
		Concrete block building, 3 story		SF			
		Concrete building, monolithic, large		SF			
		Concrete building, precast panel, frame roof		SF			
		Steel frame building, no fireproof		SF			
		<b>Asphalt &amp; Concrete Sawing</b>					
		Sawing asphalt up to 3"		LF			
		Sawing asphalt 3" to 6"		LF			
		Sawing concrete slab, 2"		LF			
		Sawing concrete slab, 3"		LF			

# SITE DEVELOPMENT WORKSHEET

## SITE DEVELOPMENT WORKSHEET FOR ADDITIONAL GRANTS

(Rev. 10/06)

SCHOOL DISTRICT	5 DIGIT DISTRICT CODE
SCHOOL NAME	COUNTY
ARCHITECTS FIRM	DATE OF ESTIMATE
	SIGNATURE

Indicate where to find this item in the plans

Plan Ref.	CSI #	Description	Quantity	Unit	Unit Cost	Total	Remark
		<b>(A) SERVICE SITE DEVELOPMENT</b>	(Go To Off-Site)		(Go To Utility)		
		<b>A1. Site Clearance - Section 1859.76(a)(1)</b>					
		Removal of trees, brush and debris.					
		<b>Site Preparation</b>					
		Clear, grub, brush, turf, roots, disposal		SF			
		<b>Tree Removal</b>					
		Remove tree, 6"-8", off site disposal		EA			
		Remove tree, 10"-14", off site disposal		EA			
		Remove tree, 20"-30", off site disposal		EA			
		<b>A1. Site Clearance:</b>			\$	-	
		<b>A2. Demolition - Section 1859.76(a)(2)</b>					
		Demolition and removal of existing buildings and site improvements that lie in the footprint of a building or proposed site development.					
		<b>Asphalt &amp; Concrete Paving Removal</b>					
		Remove pavement, asphalt, 5,000 to 25,000 sqft.		SF			
		Remove pavement, asphalt, 25,000 to 50,000 sqft.		SF			
		Remove pavement, asphalt, over 50,000 sqft.		SF			
		Remove concrete slab, 5" max, with rebar		SF			
		Remove concrete curb/gutter, no sawing		LF			
		Remove concrete curb-planter & batter board		SF			
		Remove concrete sidewalk, outside building		SF			
		<b>Fence &amp; Guardrail Removal</b>					
		Remove fence, chain link, 6", dispose		LF			
		Remove fence, wood, 6", dispose		LF			
		Remove guardrail, dispose		LF			
		<b>Building Demolition</b>					
		Frame building, single story		SF			
		Frame building, two story		SF			
		Frame building, three story		SF			
		Concrete block building, 2 story, no concrete columns		SF			
		Concrete block building, 3 story		SF			
		Concrete building, monolithic, large		SF			
		Concrete building, precast panel, frame roof		SF			
		Steel frame building, no fireproof		SF			
		<b>Asphalt &amp; Concrete Sawing</b>					
		Sawing asphalt up to 3"		LF			
		Sawing asphalt 3" to 6"		LF			
		Sawing concrete slab, 2"		LF			
		Sawing concrete slab, 3"		LF			

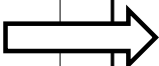
# SITE DEVELOPMENT WORKSHEET

## SITE DEVELOPMENT WORKSHEET FOR ADDITIONAL GRANTS

(Rev. 10/06)

SCHOOL DISTRICT	5 DIGIT DISTRICT CODE
SCHOOL NAME	COUNTY
ARCHITECTS FIRM	DATE OF ESTIMATE
	SIGNATURE

Indicate the CSI# from the Saylor current construction Cost



CSI #	Description	Quantity	Unit	Unit Cost	Total	Remark
	<b>(A) SERVICE SITE DEVELOPMENT</b>					
	<b>A1. Site Clearance - Section 1859.76(a)(1)</b>					
	Removal of trees, brush and debris.					
	<b>Site Preparation</b>					
	Clear, grub, brush, turf, roots, disposal		SF			
	<b>Tree Removal</b>					
	Remove tree, 6"-8", off site disposal		EA			
	Remove tree, 10"-14", off site disposal		EA			
	Remove tree, 20"-30", off site disposal		EA			
	<b>A1. Site Clearance:</b>			\$	-	
	<b>A2. Demolition - Section 1859.76(a)(2)</b>					
	Demolition and removal of existing buildings and site improvements that lie in the footprint of a building or proposed site development.					
	<b>Asphalt &amp; Concrete Paving Removal</b>					
	Remove pavement, asphalt, 5,000 to 25,000 sqft.		SF			
	Remove pavement, asphalt, 25,000 to 50,000 sqft.		SF			
	Remove pavement, asphalt, over 50,000 sqft.		SF			
	Remove concrete slab, 5" max, with rebar		SF			
	Remove concrete curb/gutter, no sawing		LF			
	Remove concrete curb-planter & batter board		SF			
	Remove concrete sidewalk, outside building		SF			
	<b>Fence &amp; Guardrail Removal</b>					
	Remove fence, chain link, 6', dispose		LF			
	Remove fence, wood, 6', dispose		LF			
	Remove guardrail, dispose		LF			
	<b>Building Demolition</b>					
	Frame building, single story		SF			
	Frame building, two story		SF			
	Frame building, three story		SF			
	Concrete block building, 2 story, no concrete columns		SF			
	Concrete block building, 3 story		SF			
	Concrete building, monolithic, large		SF			
	Concrete building, precast panel, frame roof		SF			
	Steel frame building, no fireproof		SF			
	<b>Asphalt &amp; Concrete Sawing</b>					
	Sawing asphalt up to 3"		LF			
	Sawing asphalt 3" to 6"		LF			
	Sawing concrete slab, 2"		LF			
	Sawing concrete slab, 3"		LF			

# SITE DEVELOPMENT WORKSHEET

## SITE DEVELOPMENT WORKSHEET FOR ADDITIONAL GRANTS

(Rev. 10/02)

SCHOOL DISTRICT	5 DIGIT DISTRICT CODE
SCHOOL NAME	COUNTY
ARCHITECTS FIRM	DATE OF ESTIMATE
	PREPARED BY
	SIGNATURE

Plan Ref.	CSI #	Description	Quantity	Unit	Unit Cost	Total	Remark
		<b>(A) SERVICE SITE DEVELOPMENT</b>	(Go To Off-Site)		(Go To Utility)		
		<b>A1. Site Clearance - Section 1859.76(a)(1)</b> Removal of trees, brush and debris.					
		<b>Site Preparation</b> Clear, grub, brush, turf, roots, disposal		SF			
		<b>Tree Removal</b> Remove tree, 6"-8", off site disposal Remove tree, 10"-14", off site disposal Remove tree, 20"-30", off site disposal		SF			
		<b>A2. Demolition - Section 1859.76(a)(2)</b> Demolition and removal of existing buildings and site improvements that lie in the footprint of a building or proposed site development.					
		<b>Asphalt &amp; Concrete Paving Removal</b> Remove pavement, asphalt, 5,000 to 25,000 sqft. Remove pavement, asphalt, 25,000 to 50,000 sqft. Remove pavement, asphalt, over 50,000 sqft. Remove concrete slab, 5" max, with rebar Remove concrete curb/gutter, no sawing Remove concrete curb-planter & batter board Remove concrete sidewalk, outside building		SF SF SF SF LF SF SF			
		<b>Fence &amp; Guardrail Removal</b> Remove fence, chain link, 6', dispose Remove fence, wood, 6', dispose Remove guardrail, dispose		LF LF LF			
		<b>Building Demolition</b> Frame building, single story Frame building, two story Frame building, three story Concrete block building, 2 story, no concrete columns Concrete block building, 3 story Concrete building, monolithic, large Concrete building, precast panel, frame roof Steel frame building, no fireproof		SF SF SF SF SF SF SF SF			
		<b>Asphalt &amp; Concrete Sawing</b> Sawing asphalt up to 3" Sawing asphalt 3" to 6" Sawing concrete slab, 2" Sawing concrete slab, 3"		LF LF LF LF			

Quantity & Unit

# SITE DEVELOPMENT WORKSHEET

## SITE DEVELOPMENT WORKSHEET FOR ADDITIONAL GRANTS

(Rev. 10/05)

SCHOOL DISTRICT	5 DIGIT DISTRICT CODE
SCHOOL NAME	COUNTY
ARCHITECTS FIRM	DATE OF ESTIMATE
	SIGNATURE

Plan Ref.	CSI #	Description	Quantity	Unit	Unit Cost	Total	Remark
		<b>(A) SERVICE SITE DEVELOPMENT</b>					
		<b>A1. Site Clearance - Section 1859.76(a)(1)</b>					
		Removal of trees, brush and debris.					
		<b>Site Preparation</b>					
		Clear, grub, brush, turt, roots, disposal		SF			
		<b>Tree Removal</b>					
		Remove tree, 6"-8", off site disposal		EA			
		Remove tree, 10"-14", off site disposal		EA			
		Remove tree, 20"-30", off site disposal		EA			
		<b>A2. Demolition - Section 1859.76(a)(2)</b>					
		Demolition and removal of existing buildings and site improvements that lie in the footprint of a building or proposed site development.					
		<b>Asphalt &amp; Concrete Paving Removal</b>					
		Remove pavement, asphalt, 5,000 to 25,000 sqft.		SF			
		Remove pavement, asphalt, 25,000 to 50,000 sqft.		SF			
		Remove pavement, asphalt, over 50,000 sqft.		SF			
		Remove concrete slab, 5" max. with rebar		SF			
		Remove concrete curb/gutter, no sawing		LF			
		Remove concrete curb-planter & batter board		SF			
		Remove concrete sidewalk, outside building		SF			
		<b>Fence &amp; Guardrail Removal</b>					
		Remove fence, chain link, 6', dispose		LF			
		Remove fence, wood, 6', dispose		LF			
		Remove guardrail, dispose		LF			
		<b>Building Demolition</b>					
		Frame building, single story		SF			
		Frame building, two story		SF			
		Frame building, three story		SF			
		Concrete block building, 2 story, no concrete columns		SF			
		Concrete block building, 3 story		SF			
		Concrete building, monolithic, large		SF			
		Concrete building, precast panel, frame roof		SF			
		Steel frame building, no fireproof		SF			
		<b>Asphalt &amp; Concrete Sawing</b>					
		Sawing asphalt up to 3"		LF			
		Sawing asphalt 3" to 6"		LF			
		Sawing concrete slab, 2"		LF			
		Sawing concrete slab, 3"		LF			
		<b>A1. Site Clearance:</b>			\$	-	

Unit Cost from Saylor

# SITE DEVELOPMENT WORKSHEET

## SITE DEVELOPMENT WORKSHEET FOR ADDITIONAL GRANTS

(Rev. 10/02)

SCHOOL DISTRICT	5 DIGIT DISTRICT CODE
SCHOOL NAME	COUNTY
ARCHITECTS FIRM	DATE OF ESTIMATE
	PREPARED BY
	SIGNATURE

Plan Ref.	CSI #	Description	Quantity	Unit	Unit Cost	Total	Remark
		<b>(A) SERVICE SITE DEVELOPMENT</b>					
		<b>A1. Site Clearance - Section 1859.76(a)(1)</b>					
		Removal of trees, brush and debris.					
		<b>Site Preparation</b>					
		Clear, grub, brush, turt, roots, disposal		SF			
		<b>Tree Removal</b>					
		Remove tree, 6"-8", off site disposal		EA			
		Remove tree, 10"-14", off site disposal		EA			
		Remove tree, 20"-30", off site disposal		EA			
		<b>A2. Demolition - Section 1859.76(a)(2)</b>					
		Demolition and removal of existing buildings and site improvements that lie in the footprint of a building or proposed site development.					
		<b>Asphalt &amp; Concrete Paving Removal</b>					
		Remove pavement, asphalt, 5,000 to 25,000 sqft.		SF			
		Remove pavement, asphalt, 25,000 to 50,000 sqft.		SF			
		Remove pavement, asphalt, over 50,000 sqft.		SF			
		Remove concrete slab, 5" max, with rebar		SF			
		Remove concrete curb/gutter, no sawing		LF			
		Remove concrete curb-planter & batter board		SF			
		Remove concrete sidewalk, outside building		SF			
		<b>Fence &amp; Guardrail Removal</b>					
		Remove fence, chain link, 6', dispose		LF			
		Remove fence, wood, 6', dispose		LF			
		Remove guardrail, dispose		LF			
		<b>Building Demolition</b>					
		Frame building, single story		SF			
		Frame building, two story		SF			
		Frame building, three story		SF			
		Concrete block building, 2 story, no concrete columns		SF			
		Concrete block building, 3 story		SF			
		Concrete building, monolithic, large		SF			
		Concrete building, precast panel, frame roof		SF			
		Steel frame building, no fireproof		SF			
		<b>Asphalt &amp; Concrete Sawing</b>					
		Sawing asphalt up to 3"		LF			
		Sawing asphalt 3" to 6"		LF			
		Sawing concrete slab, 2"		LF			
		Sawing concrete slab, 3"		LF			
		<b>A1. Site Clearance:</b>			\$	-	

A little explanation goes a long way

# SITE DEVELOPMENT WORKSHEET

## SITE DEVELOPMENT WORKSHEET FOR ADDITIONAL GRANTS

(Rev. 10/06)

SCHOOL DISTRICT	5 DIGIT DISTRICT CODE
SCHOOL NAME	COUNTY
ARCHITECTS FIRM	DATE OF ESTIMATE
	SIGNATURE

Hide all rows that are not applicable

Plan Ref.	CSI #	Description	Quantity	Unit	Unit Cost	Total	Remark
		<b>(A) SERVICE SITE DEVELOPMENT</b>	(Go To Off-Site)		(Go To Utility)		
		<b>A1. Site Clearance - Section 1859.76(a)(1)</b>					
		Removal of trees, brush and debris.					
		<b>Site Preparation</b>					
		Clear, grub, brush, turf, roots, disposal		SF			
		<b>Tree Removal</b>					
		Remove tree, 6"-8", off site disposal		EA			
		Remove tree, 10"-14", off site disposal		EA			
		Remove tree, 20"-30", off site disposal		EA			
		<b>A1. Site Clearance:</b>			\$	-	
		<b>A2. Demolition - Section 1859.76(a)(2)</b>					
		Demolition and removal of existing buildings and site improvements that lie in the footprint of a building or proposed site development.					
		<b>Asphalt &amp; Concrete Paving Removal</b>					
		Remove pavement, asphalt, 5,000 to 25,000 sqft.		SF			
		Remove pavement, asphalt, 25,000 to 50,000 sqft.		SF			
		Remove pavement, asphalt, over 50,000 sqft.		SF			
		Remove concrete slab, 5" max, with rebar		SF			
		Remove concrete curb/gutter, no sawing		LF			
		Remove concrete curb-planter & batter board		SF			
		Remove concrete sidewalk, outside building		SF			
		<b>Fence &amp; Guardrail Removal</b>					
		Remove fence, chain link, 6", dispose		LF			
		Remove fence, wood, 6", dispose		LF			
		Remove guardrail, dispose		LF			
		<b>Building Demolition</b>					
		Frame building, single story		SF			
		Frame building, two story		SF			
		Frame building, three story		SF			
		Concrete block building, 2 story, no concrete columns		SF			
		Concrete block building, 3 story		SF			
		Concrete building, monolithic, large		SF			
		Concrete building, precast panel, frame roof		SF			
		Steel frame building, no fireproof		SF			
		<b>Asphalt &amp; Concrete Sawing</b>					
		Sawing asphalt up to 3"		LF			
		Sawing asphalt 3" to 6"		LF			
		Sawing concrete slab, 2"		LF			
		Sawing concrete slab, 3"		LF			

**SITE DEVELOPMENT WORKSHEET FOR ADDITIONAL GRANTS**

(Rev. 07/02)

SCHOOL DISTRICT	5 DIGIT DISTRICT CODE
ROSEMEAD SCHOOL DISTRICT	64931
SCHOOL NAME	COUNTY
MUSCATEL MIDDLE SCHOOL	LOS ANGELES
ARCHITECTS FIRM	DATE OF ESTIMATE
JUBANY-NAC ARCHITECTURE	9/1/2009

Plan Ref.	CSI #	Description	Quantity		Unit	Unit Cost	Total	Remark
			Go To	Off-Site				
<b>(A) SERVICE SITE DEVELOPMENT</b>								
<b>A1. Site Clearance - Section 1859.76(a)(1)</b>								
Removal of trees, brush and debris.								
<b>Site Preparation</b>								
A-1.1	02.2001 011	Clear, grub, brush, turf, roots, disposal	25,736	SF	0.18	4,632		
<b>Tree Removal</b>								
A-1.1	02.1104 011	Remove tree, 6"-8", off site disposal	5	EA	289.99	1,450		
							<b>A1. Site Clearance:</b>	<b>\$ 6,082</b>
<b>A2. Demolition - Section 1859.76(a)(2)</b>								
Demolition and removal of existing buildings and site improvements that lie in the footprint of a building or proposed site development.								
<b>Asphalt &amp; Concrete Paving Removal</b>								
A-1.1	02.1101 021	Remove pavement, asphalt, 25,000 to 50,000 sqft.	5,593	SF	0.63	3,524		
A-1.1	02.1101 081	Remove concrete curb/gutter, no sawing	62	LF	2.63	163		
<b>Building Demolition</b>								
A-1.1		Frame building, single story	2	EA	25,000.00	50,000		Removal and demolition of 2 aged relocatable buildings
<b>Asphalt &amp; Concrete Sawing</b>								
A-1.1	02.1101 033	Sawing asphalt 3" to 6"	798	LF	2.98	2,378		
<b>Asbestos Removal</b>								
Recommended provide cost estimate from your local abatement contractors.								
							<b>A2. Demolition:</b>	<b>\$ 56,065</b>
<b>A3. Rerouting Utility Lines - Section 1859.76(a)(3)</b>								
Removal and rerouting of existing utility service lying in the footprint of a proposed building or proposed site development.								
<b>Remove Utility Lines</b>								
A-1.1	02.1105 031	Remove (E) sewer line, up to 4"	80	LF	9.56	765		
<b>Reinstall Utility Lines</b>								
A-1.2	02.5111 011	Reinstall (N) sewer line, up to 4"	1,119	LF	27.43	30,694		
							<b>A3. Rerouting Utility Lines:</b>	<b>\$ 31,459</b>
<b>A4. Rough Grading - Section 1859.76(a)(4)</b>								
<b>A5. Soil Compaction - Section 1859.76(a)(5)</b>								
Soil compaction adhering to common engineering practices and engineered fill when required by a soil report. Report must be available for review by the OPSC.								
<b>Fill Preparation</b>								
A-1.1 & A-1.2	02.2001 051	Scarify & compact top 6"	28,976	SF	0.26	7,534		See Attached Soils Report
							<b>A5. Soil Compaction:</b>	<b>\$ 7,534</b>
<b>A6. Storm Drains - Section 1859.76(a)(6)</b>								
On-site drainage facilities including inlets, below grade drainage facilities, and retention basins.								
<b>Storm drainage, w/trench, fittings.</b>								
A-1.2	02.5113 031	Pipe, PVC, SDR-35, 8"	196	LF	38.43	7,532		
A-1.2	02.5304 081	Pipe, PVC, Sch 80, 8"	65	LF	48.65	3,162		For Schedule 80, add 26% to the material cost plus 100% for a 8" pipe
A-1.2	02.5501 011	Catch basins, with grate, light duty	3	EA	1,002.99	3,009		
Catch basin, 2' x 2' x 2', grate, light duty								
<b>Drop inlets, precast conc., thick wall, standard grates</b>								
<b>Manholes, with lid &amp; rungs</b>								
<b>Cleanouts</b>								
<b>Retention Basins</b>								
<b>Underground Culverts</b>								
							<b>A6. Storm Drains:</b>	<b>\$ 13,703</b>
<b>A7. Erosion Control - Section 1857.76(a)(7)</b>								
Erosion control improvements such as plant material, temporary sprinkler systems, jute mesh and straw, due to the embankments having a slope of at least 2:1 and a vertical height greater than 6 feet. [Permanent sprinkler systems are also allowed and are more appropriate to the purpose of erosion control].								
C-1.2		Webbed revegetation mat	9,368	SF	7.00	65,576		Unit cost from Means Construction Cost
							<b>A7. Erosion Control:</b>	<b>\$ 65,576</b>
<b>A8. Stairs, Ramps, &amp; Retaining Walls - Section 1859.76(a)(8)</b>								

PTN 11 (10)

Division 2	02 - SITEWORK			Union	Union	Open	Open	Unit
CSI #	Description	Unit	Material	Install	Total	Install	Total	Man-Hrs
02.0000 000	<b>SITE WORK:</b>							
02.1000 000	<b>DEMOLITION:</b> <i>Note: Unless stated otherwise, demolition includes disposal. Other uncommon conditions, such as excessive haul distances, unusual work hours, high voltage lines, limited access or volatile materials must be accounted for by either increased costs or separate allowances.</i>							
02.1100 000	<b>SITE DEMOLITION:</b>							
02.1101 000	<b>PAVEMENT &amp; MISCELLANEOUS CONCRETE REMOVAL:</b> <i>Note: The following prices include disposal for short haul dumps. Adjustments are necessary for long hauls.</i>							
02.1101 011	Remove pavement, asphaltic concrete, 5,000 to 25,000	SF	.55	.28	.83	.20	.75	0.0038
02.1101 021	Remove pavement, asphaltic concrete, 25,000 to 50,000	SF	.35	.28	.63	.20	.55	0.0038
02.1101 031	Remove pavement, asphaltic concrete, over 50,000	SF	.24	.18	.42	.13	.37	0.0024
02.1101 033	Sawcut pavement, asphaltic concrete	LF	.75	1.48	2.23	1.06	1.81	0.0200
02.1101 035	Pulverize, asphaltic concrete, for recompaction, 4"	SF	.09	.11	.20	.08	.17	0.0015
02.1101 041	Remove concrete slab, 5" max; no rebar	SF	.51	.76	1.27	.35	.86	0.0128
02.1101 051	Remove concrete slab, 5" max, with rebar	SF	.57	.98	1.55	.45	1.02	0.0165
02.1101 061	Remove concrete slab, 9"-12", with rebar	SF	2.75	4.26	7.01	1.96	4.71	0.0716
02.1101 071	Remove concrete slab, 13"-18", with rebar	SF	3.98	7.66	11.64	3.54	7.52	0.1289
02.1101 081	Remove concrete curb/gutter, no sawing	LF	.95	1.68	2.63	.77	1.72	0.0282
02.1101 091	Remove concrete curb-planter & batter board	SF	1.18	2.36	3.54	1.09	2.27	0.0397
02.1101 101	Remove concrete drive, with curb retainer & walk	LF	.55	.99	1.54	.46	1.01	0.0166
02.1101 111	Remove concrete sidewalk, outside building	SF	.42	.87	1.29	.40	.82	0.0147
02.1101 121	Remove concrete catch basin, sump, dry well	EA	108.26	179.42	287.68	82.84	191.10	3.0190
02.1101 131	Dump charges, low	TON	18.44		18.44		18.44	
02.1101 141	Dump charges, mid	TON	26.43		26.43		26.43	
02.1101 151	Dump charges, high	TON	36.66		36.66		36.66	
02.1102 000	<b>FENCE &amp; GUARDRAIL REMOVAL:</b>							
02.1102 011	Remove fence, chain link, 6', dispose	LF	.44	1.75	2.19	.81	1.25	0.0295
02.1102 021	Remove fence, chain link, 6', salvage	LF	.58	2.41	2.99	1.11	1.69	0.0406
02.1102 031	Remove fence, wood, 6', dispose	LF	.17	.93	1.10	.43	.60	0.0157
02.1102 041	Remove guardrail, dispose	LF	.56	3.75	4.31	2.38	2.94	0.0541
02.1102 051	Remove guardrail, salvage	LF	.77	2.96	3.73	1.37	2.14	0.0498
02.1103 000	<b>MANHOLE REMOVAL:</b>							
02.1103 011	Remove manhole, 6'	EA	133.40	309.44	442.84	196.19	329.59	4.4640
02.1103 021	Remove manhole, 7'-12'	EA	253.51	436.72	690.23	276.89	530.40	6.3000
02.1103 031	Remove manhole, break bellow collar, sand fill & plug	EA	105.42	128.94	234.36	81.75	187.17	1.8600
02.1103 041	Remove manhole, reset to grade, average	EA	124.57	81.04	205.61	51.38	175.95	1.1690
02.1104 000	<b>TREE &amp; POLE REMOVAL:</b> <i>Note: Tree removal includes removal of stump.</i>							
02.1104 011	Remove tree, 6"-8", off site disposal	EA	128.00	161.99	289.99	102.71	230.71	2.3369
02.1104 021	Remove tree, 10"-14", off site disposal	EA	166.99	161.99	328.98	102.71	269.70	2.3369
02.1104 031	Remove tree, 20"-30", off site disposal	EA	417.64	405.00	822.64	256.77	674.41	5.8424
02.1104 041	Remove tree, orchard clear	EA	48.59	40.44	89.03	25.64	74.23	0.5534
02.1104 051	Remove tree, walnut/tap root	EA	83.40	119.30	202.70	75.64	159.04	1.7210
02.1104 061	Remove tree, burning, large areas	EA	27.75	24.13	51.88	11.14	38.89	0.4061
02.1104 071	Remove pole, salvage condition	EA	29.41	326.12	355.53	150.57	179.98	5.4874
02.1105 000	<b>MISC REMOVAL, RELOCATE TO FACILITATE ABOVE ITEMS:</b>							
02.1105 011	Remove hydrant, with reset, thrust blocks	EA	118.33	401.69	520.02	185.47	303.80	6.7590
02.1105 021	Storm drain line to 15", dispose	LF	2.81	6.40	9.21	2.96	5.77	0.1077
02.1105 031	Sanitary line, 8"-12", complete	LF	3.26	6.30	9.56	2.91	6.17	0.1060
02.1200 000	<b>GENERAL BUILDING DEMOLITION:</b>							
02.1201 000	<b>BUILDING DEMOLITION:</b> <i>Note: For fireproofing on steel, add 30% to the total cost. For salvage of steel, add 50% to the total cost.</i>							
02.1201 011	Frame building, single story	SF	.16	3.77	3.93	1.74	1.90	0.0635
02.1201 021	Frame building, two story	SF	.16	3.65	3.81	1.69	1.85	0.0615
02.1201 031	Frame building, three story	SF	.16	3.58	3.74	1.65	1.81	0.0602
02.1201 041	Concrete block building, 2 story, no concrete columns	SF	.76	7.43	8.19	3.43	4.19	0.1251

**SITE DEVELOPMENT WORKSHEET FOR ADDITIONAL GRANTS**

(Rev. 07/02)

SCHOOL DISTRICT <b>ROSEMEAD SCHOOL DISTRICT</b>	5 DIGIT DISTRICT CODE 64931
SCHOOL NAME <b>MUSCATEL MIDDLE SCHOOL</b>	COUNTY <b>LOS ANGELES</b>
ARCHITECTS FIRM <b>JUBANY-NAC ARCHITECTURE</b>	DATE OF ESTIMATE <b>9/1/2009</b>

PTN 11 (10)

Plan Ref.	CSI #	Description	Quantity		Unit	Unit Cost	Total	Remark
			Go To	Off-Site				
<b>(A) SERVICE SITE DEVELOPMENT</b>								
<b>A1. Site Clearance - Section 1859.76(a)(1)</b>								
Removal of trees, brush and debris.								
<b>Site Preparation</b>								
A-1.1	02.2001 011	Clear, grub, brush, turf, roots, disposal	25,736	SF	0.18	4,632		
A-1.1	02.1104 011	<b>Tree Removal</b> Remove tree, 6"-8", off site disposal	5	EA	289.99	1,450		
							<b>A1. Site Clearance: \$ 6,082</b>	
<b>A2. Demolition - Section 1859.76(a)(2)</b>								
Demolition and removal of existing buildings and site improvements that lie in the footprint of a building or proposed site development.								
<b>Asphalt &amp; Concrete Paving Removal</b>								
A-1.1	02.1101 021	Remove pavement, asphalt, 25,000 to 50,000 sqft.	5,593	SF	0.63	3,524		
A-1.1	02.1101 081	Remove concrete curb/gutter, no sawing	62	LF	2.63	163		
<b>Building Demolition</b>								
A-1.1		Frame building, single story	2	EA	25,000.00	50,000		Removal and demolition of 2 aged relocatable buildings
<b>Asphalt &amp; Concrete Sawing</b>								
A-1.1	02.1101 033	Sawing asphalt 3" to 6"	798	LF	2.98	2,378		
<b>Asbestos Removal</b> <i>Recommended provide cost estimate from your local abatement contractors.</i>								
							<b>A2. Demolition: \$ 56,065</b>	
<b>A3. Rerouting Utility Lines - Section 1859.76(a)(3)</b>								
Removal and rerouting of existing utility service lying in the footprint of a proposed building or proposed site development.								
<b>Remove Utility Lines</b>								
A-1.1	02.1105 031	Remove (E) sewer line, up to 4"	80	LF	9.56	765		
<b>Reinstall Utility Lines</b>								
A-1.2	02.5111 011	Reinstall (N) sewer line, up to 4"	1,119	LF	27.43	30,694		
							<b>A3. Rerouting Utility Lines: \$ 31,459</b>	
<b>A4. Rough Grading - Section 1859.76(a)(4)</b>								
<b>A5. Soil Compaction - Section 1859.76(a)(5)</b>								
Soil compaction adhering to common engineering practices and engineered fill when required by a soil report. Report must be available for review by the OPSC.								
<b>Fill Preparation</b>								
A-1.1 & A-1.2	02.2001 051	Scarify & compact top 6"	28,976	SF	0.26	7,534		See Attached Soils Report
							<b>A5. Soil Compaction: \$ 7,534</b>	
<b>A6. Storm Drains - Section 1859.76(a)(6)</b>								
On-site drainage facilities including inlets, below grade drainage facilities, and retention basins.								
<b>Storm drainage, w/trench, fittings.</b>								
A-1.2	02.5113 031	Pipe, PVC, SDR-35, 8"	196	LF	38.43	7,532		
A-1.2	02.5304 081	Pipe, PVC, Sch 80, 8"	65	LF	48.65	3,162		For Schedule 80, add 26% to the material cost plus 100% for a 8" pipe
A-1.2	02.5501 011	<b>Catch basins, with grate, light duty</b> Catch basin, 2' x 2' x 2', grate, light duty	3	EA	1,002.99	3,009		
<b>Drop inlets, precast conc., thick wall, standard grates</b>								
<b>Manholes, with lid &amp; rungs</b>								
<b>Cleanouts</b>								
<b>Retention Basins</b>								
<b>Underground Culverts</b>								
							<b>A6. Storm Drains: \$ 13,703</b>	
<b>A7. Erosion Control - Section 1857.76(a)(7)</b>								
Erosion control improvements such as plant material, temporary sprinkler systems, jute mesh and straw, due to the embankments having a slope of at least 2:1 and a vertical height greater than 6 feet. [Permanent sprinkler systems are also allowed and are more appropriate to the purpose of erosion control].								
C-1.2		Webbed revegetation mat	9,368	SF	7.00	65,576		Unit cost from Means Construction Cost
							<b>A7. Erosion Control: \$ 65,576</b>	
<b>A8. Stairs, Ramps, &amp; Retaining Walls - Section 1859.76(a)(8)</b>								

School District:		Application number		Site Name:		By/Date	By/Date	By/Date	Estimate Reference						
Category	Plan Location	Item	Quantity	Unit	Unit Cost	Architect's Estimate	Base Grant	Transfer> Service Site	Transfer> Off Site	Transfer> Utilities	Unverified work	Cross check	OPSC Allowance	Comments	Saylor Publications
<b>(a) Service Site</b>															
<b>(1) Site clearance</b>															
	A-1.1	Clear and grub	25,736	sf	\$0.18	\$4,632.48	\$0				\$0	\$4,632	\$4,632.48		
	A-1.1	Remove tree, 6"-8"	5	ea	\$289.99	\$1,449.95	\$0				\$0	\$1,450	\$1,449.95		
			0		\$0.00	\$0.00	\$0				\$0	\$0			
			0		\$0.00	\$0.00	\$0				\$0	\$0			
			0		\$0.00	\$0.00	\$0				\$0	\$0			
			0		\$0.00	\$0.00	\$0				\$0	\$0			
		<b>Sub Total</b>				\$6,082.43	\$0	\$0	\$0	\$0	\$0	\$6,082.43	\$4,632.48		
<b>(2) Demolition</b>															
	A-1.1	Remove Pavement, asphalt	5,593	sf	\$0.63	\$3,523.59	\$0				\$0	\$3,524	\$3,523.59		
	A-1.1	Remove concrete curb/gutter	62	lf	\$2.63	\$163.06	\$0				\$0	\$163	\$163.06		
	A-1.1	Frame Building, Single Story	2	ls	\$25,000.00	\$50,000.00	\$0				\$50,000	\$50,000	\$0.00	Cannot verify lump sum. Provide quantity and unit cost breakdown.	
	A-1.1	Saving asphalt 3" to 6"	798	lf	\$2.98	\$2,378.04	\$0				\$2,378	\$2,378	\$2,378.04		
		<b>Sub Total</b>				\$56,064.69	\$0	\$0	\$0	\$0	\$52,378.04	\$56,064.69	\$6,064.69		
<b>(3) Rerouting utility lines</b>															
		<b>Sub Total</b>				\$31,459.00	\$0	\$0	\$0	\$0	\$0	\$31,459.00	\$31,459.00		
<b>(4) Rough Grading</b>															
		<b>Sub Total</b>				\$0.00	\$0	\$0	\$0	\$0	\$0	\$0.00	\$0.00		
<b>(5) Soil Compaction</b>															
	A-1.1 & A-1.2	Scarify & compact top 6"	28,976	sf	\$0.26	\$7,534.00	\$0				\$7,534	\$7,534	\$0.00	Cannot verify quantity. Provide soil report to verify the requirements of over-excavation.	
		<b>Sub Total</b>				\$7,534.00	\$0	\$0	\$0	\$0	\$0	\$7,534.00	\$7,534.00		
<b>(6) Storm Drains</b>															
		<b>Sub Total</b>				\$13,703.00	\$0	\$0	\$0	\$0	\$0	\$13,703.00	\$13,703.00		
<b>(7) Erosion control on 2:1 embankments over 6'</b>															
	C-1.2	Webbed Revegetation mat	9,368	sf	\$7.00	\$65,576.00	\$0				\$65,576	\$65,576	\$0.00	Cannot verify unit cost	
		<b>Sub Total</b>				\$65,576.00	\$0	\$0	\$0	\$0	\$65,576	\$65,576.00	\$0.00		
<b>(8) Stairs, ramps &amp; retaining walls for 2:1 embankments over 6'</b>															
		<b>Sub Total</b>				\$0.00	\$0	\$0	\$0	\$0	\$0	\$0.00	\$0.00		
<b>(9) Relocation of relocatables in the footprint of the building</b>															
		<b>Sub Total</b>				\$0.00	\$0	\$0	\$0	\$0	\$0	\$0.00	\$0.00		
<b>(10) Fire loop &amp; access road</b>															
		<b>Sub Total</b>				\$44,043.00	\$0	\$0	\$0	\$0	\$0	\$44,043.00	\$44,043.00		
<b>(11) Multi-Level parking structure per (A) thru (D)</b>															
		<b>Sub Total</b>				\$0.00	\$0	\$0	\$0	\$0	\$0	\$0.00	\$0.00		
<b>(12) Removal and relocation of relocatables eligible for replacement</b>															
		<b>Sub Total</b>				\$0.00	\$0	\$0	\$0	\$0	\$0	\$0.00	\$0.00		
<b>(13) Others</b>															
	A-1.2	Grasspave at firelane	8,990	sf	\$7.05	\$63,379.50	\$0				\$0	\$63,380	\$63,379.50		
			0		\$0.00	\$0.00	\$0				\$0	\$0	\$0		
			0		\$0.00	\$0.00	\$0				\$0	\$0	\$0		
			0		\$0.00	\$0.00	\$0				\$0	\$0	\$0		
			0		\$0.00	\$0.00	\$0				\$0	\$0	\$0		
			0		\$0.00	\$0.00	\$0				\$0	\$0	\$0		
		<b>Sub Total</b>				\$63,379.50	\$0	\$0	\$0	\$0	\$0	\$63,379.50	\$63,379.50		
		<b>Service Site Total</b>				\$287,842	\$1,200	\$0	\$0	\$0	\$18,768	\$287,842	\$170,816		
		(13) General Requirements	15%			\$43,176							\$25,622		
		(13) Design costs	8%			\$26,481							\$15,715		
		<b>Allowance Total</b>				\$178,750							\$106,077		

School District:		Application number		Site Name:		By/Date	By/Date	By/Date	Estimate Reference						
Category	Plan Location	Item	Quantity	Unit	Unit Cost	Architect's Estimate	Base Grant	Transfer> Service Site	Transfer> Off Site	Transfer> Utilities	Unverified work	Cross check	OPSC Allowance	Comments	Saylor Publications
<b>(a) Service Site</b>															
<b>(1) Site clearance</b>															
	A-1.1	Clear and grub	25,736	sf	\$0.18	\$4,632.48	\$0				\$0	\$4,632	\$4,632.48		
	A-1.1	Remove tree, 6"-8"	5	ea	\$289.99	\$1,449.95	\$0				\$0	\$1,450	\$1,449.95		
			0		\$0.00	\$0.00	\$0								
			0		\$0.00	\$0.00	\$0								
			0		\$0.00	\$0.00	\$0								
			0		\$0.00	\$0.00	\$0								
		<b>Sub Total</b>				\$6,082.43	\$0	\$0							
<b>(2) Demolition</b>															
	A-1.1	Remove Pavement, asphalt	5,593	sf	\$0.63	\$3,523.59	\$0								
	A-1.1	Remove concrete curb/gutter	62	lf	\$2.63	\$163.06	\$0				\$0	\$163	\$163.06		
	A-1.1	Frame Building, Single Story	2	ls	\$25,000.00	\$50,000.00	\$0				\$50,000	\$50,000	\$0.00	Cannot verify lump sum. Provide quantity and unit cost breakdown.	
	A-1.1	Saving asphalt 3" to 6"	798	lf	\$2.98	\$2,378.04	\$0								
		<b>Sub Total</b>				\$56,064.69	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0.00		
<b>(3) Rerouting utility lines</b>															
		<b>Sub Total</b>				\$31,459.00	\$0	\$0	\$0	\$0	\$0	\$31,459.00	\$31,459.00		
<b>(4) Rough Grading</b>															
		<b>Sub Total</b>				\$0.00	\$0	\$0	\$0	\$0	\$0	\$0.00	\$0.00		
<b>(5) Soil Compaction</b>															
	A-1.1 & A-1.2	Scarify & compact top 6"	28,976	sf	\$0.26	\$7,534.00	\$0				\$7,534	\$7,534	\$0.00	Cannot verify quantity. Provide soil report to verify the requirements of over-excavation.	
		<b>Sub Total</b>				\$7,534.00	\$0	\$0	\$0	\$0	\$7,534	\$7,534.00	\$7,534.00		
<b>(6) Storm Drains</b>															
		<b>Sub Total</b>				\$13,703.00	\$0	\$0	\$0	\$0	\$0	\$13,703.00	\$13,703.00		
<b>(7) Erosion control on 2:1 embankments over 6'</b>															
	C-1.2	Webbed Revegetation mat	9,368	sf	\$7.00	\$65,576.00	\$0				\$65,576	\$65,576	\$0.00	Cannot verify unit cost	
		<b>Sub Total</b>				\$65,576.00	\$0	\$0	\$0	\$0	\$65,576	\$65,576.00	\$0.00		
<b>(8) Stairs, ramps &amp; retaining walls for 2:1 embankments over 6'</b>															
		<b>Sub Total</b>				\$0.00	\$0	\$0	\$0	\$0	\$0	\$0.00	\$0.00		
<b>(9) Relocation of relocatables in the footprint of the building</b>															
		<b>Sub Total</b>				\$0.00	\$0	\$0	\$0	\$0	\$0	\$0.00	\$0.00		
<b>(10) Fire loop &amp; access road</b>															
		<b>Sub Total</b>				\$44,043.00	\$0	\$0	\$0	\$0	\$0	\$44,043.00	\$44,043.00		
<b>(11) Multi-Level parking structure per (A) thru (D)</b>															
		<b>Sub Total</b>				\$0.00	\$0	\$0	\$0	\$0	\$0	\$0.00	\$0.00		
<b>(12) Removal and relocation of relocatables eligible for replacement</b>															
		<b>Sub Total</b>				\$0.00	\$0	\$0	\$0	\$0	\$0	\$0.00	\$0.00		
<b>(13) Others</b>															
	A-1.2	Grasspave at firelane	8,990	sf	\$7.05	\$63,379.50	\$0				\$0	\$63,380	\$63,379.50		
			0		\$0.00	\$0.00	\$0				\$0	\$0	\$0		
			0		\$0.00	\$0.00	\$0				\$0	\$0	\$0		
			0		\$0.00	\$0.00	\$0				\$0	\$0	\$0		
			0		\$0.00	\$0.00	\$0				\$0	\$0	\$0		
			0		\$0.00	\$0.00	\$0				\$0	\$0	\$0		
		<b>Sub Total</b>				\$63,379.50	\$0	\$0	\$0	\$0	\$0	\$63,379.50	\$63,379.50		
		<b>Service Site Total</b>				\$287,842	\$1,200	\$0	\$0	\$0	\$18,768	\$287,842	\$170,816		
		(13) General Requirements	15%			\$43,176							\$25,622		
		(13) Design costs	8%			\$26,481							\$15,715		
		<b>Allowance Total</b>				\$178,750							\$106,077		

Move frame building – 1 story  
 960sf x \$25.52 = 24,499.20  
 from 02.1216 031

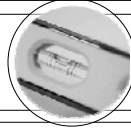


Enclosed Soils Report



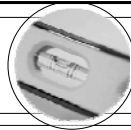
Enclosed Means Report





Amount Requested = \$178,750

OPSC Allowance = \$177,750



### ***Support Documentation w/Cost Estimate***

- ✓ DSA approved plans.
- ✓ DSA approved specifications.
- ✓ Additional Information if Applicable:
  - ✓ Cost back-up information including reference to other Cost Estimate publications, Contractor's proposal, etc.
  - ✓ Local authority approved off-site plans or preliminary approval letter from the local authorities.
  - ✓ Soil/geotechnical reports to back up grading and excavation requirements.
  - ✓ Reference plan pages on worksheet and show calculations for grading and fill in comments.
  - ✓ Local Utility Districts fee schedules and calculations.
  - ✓ Local Utility Companies connection fee information.

