



7 August 2013

County of Monterey Public Works  
 Department  
 168 West Alisal Street, 2<sup>nd</sup> Floor  
 Salinas, CA 93901

**Subject:** Updated Engineer's Cost Estimate - Site Improvements

**Project:** Cathrein Acres Subdivision  
 APNo's 125-291-001 & 125-621-017  
 Monterey County, California

**Reference(s):** Improvement Plans for Cathrein Acres Subdivision  
 Sheets 1-28, Job # 19, latest revised dated 4/2/09,  
 prepared by LandSet Engineers, Inc. - Final Map  
 of Cathrein Acres, A Private Road Subdivision, Sheets  
 1-14, Job #19, dated February 2009, prepared by  
 LandSet Engineers, Inc.

**Attention:** Mr. Chad Alinio

Dear Mr. Alinio:

The Civil Engineer's Cost Estimate is summarized below. Please refer to attachment showing a project cost detailed worksheet of project breakdown listing items, quantities, unit prices and totals.

**Roadways:**

Streets	\$ 558,487.50
Retaining Walls	\$ 129,820.00
<b>Subtotal:</b>	<b>\$ 688,307.50</b>

**Underground:**

Storm Drainage	\$ 215,850.00
Water	\$ 164,650.00
<b>Subtotal:</b>	<b>\$ 380,500.00</b>

**Joint Trench**

**Subtotal: \$ 135,000.00**

**Monumentation:**

Street Monuments	\$ 8,250.00
Property Corners	\$ 21,500.00
<b>Subtotal:</b>	<b>\$ 29,750.00</b>

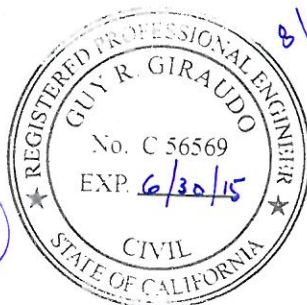
**Grand Total: \$1,233,557.50**

If you have any further questions or comments or require additional information, please do not hesitate to contact me.

Respectively Submitted,  
 Landset Engineers, Inc.

Guy R. Giraud, P.E.  
 R.C.E. No. 56569  
 Exp. 6/30/15  
 enc.

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# CATHERINE ACRES SUB'D

ENGINEER'S ESTIMATE FOR SITE IMPROVEMENTS - JOB #19 - AUGUST 7, 2013

DESCRIPTION	QUANTITY	UNIT PRICE	TOTAL
STRIP SITE	3,000 CY	\$1.00	\$3,000.00
PREP FILL AREAS	284,000 SF	\$0.05	\$14,200.00
CUT TO FILL	22,000 CY	\$1.25	\$27,500.00
PLACE IMPORT	36,450 CY	\$1.50	\$54,675.00
FINISH STREETS	148,000 SF	\$0.13	\$19,240.00
FINISH ACCESS ROADS	12,300 SF	\$0.18	\$2,214.00
FINISH VALLEY GUTTER	5,550 LF	\$0.15	\$832.50
FINISH PONDS	13,400 SF	\$0.18	\$2,376.00
AGGREGATE BASE (STREETS/DW)	5,550 TON	\$18.00	\$99,900.00
AGGREGATE BASE (ACCESS RD)	500 TON	\$20.00	\$10,000.00
ASHALT CONCRETE	2,400 TON	\$80.00	\$192,000.00
AC DIKE	790 LF	\$5.00	\$3,950.00
VERTICAL CURB	2,050 LF	\$14.00	\$28,700.00
VALLEY GUTTER W/ 6" AB CUSHION	5,550 LF	\$18.00	\$99,900.00
<b>STREETS- PUBLIC/PRIVATE Total</b>			<b>\$558,487.50</b>
18" STORM DRAIN PIPE	2,400 LF	\$35.00	\$84,000.00
STORM DRAIN MANHOLE	7 EA	\$2,500.00	\$17,500.00
CHRISTY U-21	24 EA	\$1,800.00	\$43,200.00
CHRISTY V-64	1 EA	\$250.00	\$250.00
FLARED INLET	30 EA	\$750.00	\$22,500.00
SAND AND GREASE TANKS	2 EA	\$3,000.00	\$6,000.00
BIOSWALE	8,000 SF	\$3.00	\$24,000.00
PITS	23 EA	\$800.00	\$18,400.00
<b>STORM DRAIN Total</b>			<b>\$215,850.00</b>
8" WATER MAIN	3,800 LF	\$24.00	\$91,200.00
6" WATER MAIN	865 LF	\$22.00	\$19,030.00
4" WATER MAIN	1,480 LF	\$18.00	\$26,640.00
2" WATER MAIN	190 LF	\$12.00	\$2,280.00
WATER SERVICE	27 EA	\$300.00	\$8,100.00
FIRE HYDRANT	8 EA	\$2,000.00	\$16,000.00
BLOW-OFF	2 EA	\$500.00	\$1,000.00
SAMPLE STATION	1 EA	\$400.00	\$400.00
<b>WATER Total</b>			<b>\$164,650.00</b>
REDI ROCK WALL	2,820 SSF	\$20.00	\$56,400.00
CMU WALL	1,240 SSF	\$25.00	\$31,000.00
KEYSTONE WALL	1,915 SSF	\$18.00	\$34,470.00
METAL BEAM GUARD RAIL	265 LF	\$30.00	\$7,950.00
<b>OTHER INFRASTRUCTURE Total</b>			<b>\$129,820.00</b>
<b>Grand Total</b>			<b>\$1,068,807.50</b>

## ADD ALTERNATE

JOINT TRENCH	27 LOTS	\$5,000.00	\$135,000.00
CENTERLINE MONUMENTS	15 EA	\$550.00	\$8,250.00
PROPERTY CORNERS	1LS	\$21,500.00	\$21,500.00