

**From:** Tom Smith [mailto:Tom@ghilotti.com]  
**Sent:** Wednesday, December 04, 2013 9:57 AM  
**To:** Seaberg Jr, Earl R@DOT  
**Subject:** 04-0A5344 - Import Borrow Quantities

Hello Earl,

Please see the attached Q-1 sheet showing the Summary of Quantities for the above referenced project. I added some typed in notes showing how the math is "broken" regarding the Import Borrow quantity. As you can see, the engineer's quantity for Bid Item 79 Import Borrow is significantly overstated. This is very problematic given the Department's aversion to entering into a contract that is broken from the beginning. I wanted to make you aware of this error so that you are able to make an informed decision regarding the award of this contract.

Because of this significant mathematical error I believe that the Department should reject all bids. Awarding this contract in its current form would be to the detriment of the Department / State.

Regards,

Thomas Smith  
Estimating Manager  
Ghilotti Construction Company

**PLACE HOT MIX ASPHALT DIKE**

STATION	Loc	TYPE C TYPE D TYPE E TYPE F								HOT MIX ASPHALT (Misc AREA)	HOT MIX ASPHALT (TYPE A)
		Type C		Type D		Type E		Type F			
		Std	Mod	Std	Mod	Std	Mod	Std	Mod		
"M" 77+50.00 TO "GL1" 89+50.00	L+			315	80	803					
"M" 86+75.57 TO 88+55.13	L+										
"M" 88+55.13 TO 89+50.39	L+					1197	178				
"M" 89+50.39 TO 100+00.39	L+								27	36	
"M" 100+00.39 TO 100+81.48	L+	81							4	2	
"GL1" 89+30.00 TO 91+61.81	R+					132			6	2	
"GL1" 91+61.81 TO 93+00.00	R+									4	
"GL1" 93+00.00 TO 96+35.00	R+							138		4	
"GL1" 96+35.00 TO 100+34.93 (HSG)	R+								135	4	
"JW" 91+44.83 TO 92+80.00	L+									11	
"JW" 92+76.98 TO 95+39.82	L+							135		6	
"JW" 96+39.82 TO 97+02.68	L+									2	
"JW" 97+02.68 TO 99+54.98	L+			65						10	
"JW" 99+54.98 TO 100+00.00 (HSG)	R+									24	
"JW" 93+10.97 TO 94+08.80	R+					875				2	
"JW" 94+08.80 TO 99+51.27	R+								98	2	
"JW" 99+51.27 TO "JW" 100+01.20	R+					543				15	
"JW" 100+01.20 TO "JW" 100+38.21	R+								50	1	
"GL2" 100+98.29 TO 101+22.85	L+	37								1	
"GL2" 101+22.85 TO 101+61.05	L+			72				25		1	
"GL2" 102+19.58 TO 104+00.00	L+									7	
"BP" 68+00.00 TO 74+24.45 (SIDE GUTTER)	R+					226				26	
"BP" 74+24.45 TO 85+46.93	R+					925				26	
"G" 77+18.33 TO 80+52.52	L+					958			19	26	
"G" 80+52.52 TO 81+17.74	L+			65						5	
"G" 81+17.74 TO 86+50.00	L+									1	
"G" 81+20.68 TO 91+31.84 (HSG)	L+					532				15	
"G" 82+90.71 TO 83+62.50	R+					1011				28	
"G" 83+62.50 TO 84+00.00	R+									1	
"G" 84+00.00 TO 86+30.47	R+									38	
"G" 86+30.47 TO 16+30.47	R+									11	
TOTAL		327	65	315	7307	1368	596	201	56	306	
* (HSG) DENOTES HIGH SIDE GUTTER		392		315	8673		797		56	306	

**PLACE HOT MIX ASPHALT (MISCELLANEOUS AREA)**

STATION	Loc	HOT MIX ASPHALT (Misc AREA)	HOT MIX ASPHALT (TYPE A)	CLASS 2 AGGREGATE BASE
"JW" 81+19.69 TO 88+09.61	L+	1617	282	270
"JW" 95+00.00 TO 103+21.28	L+	1146	200	191
"GL2" 103+84.18 TO 109+55.45	R+	168	30	28
"M" 100+62.50 TO 102+42.32	L+	592	104	99
"M" 64+74.43 TO 66+54.40	R+	136	24	23
"G" 77+18.33 TO 78+84.10	L+	170	30	29
FROM DRAINAGE			56	1.86
FROM PLACE HOT MIXED ASPHALT DIKE				
TOTAL		3915	671.86	640

DIST	COUNTY	ROUTE	POST MILES TOTAL PROJECT	SHEET NO.	TOTAL SHEETS
04	Sol	12,80	2 1/2.8 12.0/13.1	381	597

REGISTERED CIVIL ENGINEER  
DATE: 1-1-13  
5-6-13  
PLANS APPROVAL DATE

THE STATE OF CALIFORNIA OR ITS OFFICERS OR AGENTS SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF SCANNED COPIES OF THIS PLAN SHEET.

MARK THOMAS & COMPANY, INC.  
3000 DAK ROAD, SUITE 630  
PALMIST CREEK, CA 94497

SOLID TRANSPORTATION AUTHORITY  
ONE HARBOR CENTER, SUITE 130  
SUNSHINE CITY, CA 94588

REVISIONS:  
DATE REVISION BY: 5/20/13  
J. M. FANGOURN  
R. S. BIRDAN  
MICHAEL J. LONMAN

**EARTHWORK SUMMARY**

ALIGNMENT	ROADWAY EXCAVATION	ROCK EXCAVATION	EMBANKMENT (N)	IMPORTED BORROW	ROADWAY EXCAVATION (TYPE Y-1)(AERIALY DEPOSITED LEAD)
"M"	23041		19041	19041	1273
"JW"	62976	65770	25411	193885	140361
"B"	6			13814	13814
"S"	204			97131	96927
"GL1"	3002			23553	20551
"BP"	1159			14415	13256
"G"	7881			19685	19104
"GU"	650			82028	82028
"GR1"	442			11230	5450
"A"	38			244	208
"AM"	29			100	71
BIOFILTRATION BASIN	1213				
SUB-TOTAL	110016	25411	480576	421597	1273
SUBSIDENCE	110016	25411	480576	42180	
TOTAL	110016	25411	528634	463757	1273

(N) - NOT A SEPARATE PAY ITEM, FOR INFORMATION ONLY

SHEET NUMBER	HOT MIX ASPHALT (OPEN GRADED)	RUBBERIZED HOT MIX ASPHALT (GAP GRADED)	HOT MIX ASPHALT (TYPE A)	JOINTED PLAIN CONCRETE PAVEMENT	LEAN CONCRETE BASE
L-1	470	928	1085		654
L-2	381	1957	3889	4125	2329
L-3	103	751	1574	6618	2335
L-4	825	1153	2782		862
L-5	635				
L-6	757	1514	311		176
L-7	591	1183	2804		1267
L-8	524	1234	3556		1644
L-9					
L-10		911	119		
L-11		269	538	19	
L-12		1075	1808		
ACCESS ROAD-DRAINAGE BASIN					
SAFETY EDGE	208			73	85
HMA (VOT DEPTH)				6300	
FROM PLACE HMA DIKE				306	
TEMPORARY PAVEMENT				8287	
FROM PLACE HMA (Misc AREA)				871.86	
FROM MINOR CONCRETE (Misc)					
TOTAL	4594	10575	33798.86	10635	9352

**CONCRETE BLOCK WALL**

STATION	LOCATION	CONCRETE BLOCK WALL
"AM" 10+80 TO 11+10.00	L+	80
"AM" 10+80 TO 11+34.95	R+	141
TOTAL		221

Total Roadway Excavation (CY) = 110,016 + 25,411 = 135,427 CY

Total Embankment (CY) = 528,634 CY

Total Import Required (CY) = 528,634 - 135,427 = 393,207 CY

Caltrans Calculated Imported Borrow = 463,757 CY → BID ITEM 79

Imported Borrow Overage = 70,550 CY

(The above numbers include the 10% compaction and subsidence)

**TEMPORARY MECHANICALLY STABILIZED EMBANKMENT**

STATION	SOFT
"G" 68+91.00 TO 68+68.00	1750
"G" 70+76.40 TO 70+48.50	1860
"G" 71+15.20 TO 71+49.80	3260
"G" 75+21.90 TO 71+21.90	2580
"G" 76+42.50 TO 79+58.50	6320
TOTAL	15770

**SUMMARY OF QUANTITIES**

2 REPLACED PER ADDENDUM No. 2 DATED NOVEMBER 8, 2013