

CITY OF OAKLAND
AGENDA REPORT

OFFICE OF THE CITY CLERK
CITY OF OAKLAND

2006 JAN 12 PM 5:18

TO: Office of the City Administrator
ATTN: Deborah Edgerly
FROM: Public Works Agency
DATE: January 17, 2006

RE: SUPPLEMENTAL REPORT RELATED TO RESOLUTION AUTHORIZING AWARD OF CONTRACT TO ANDES CONSTRUCTION, INC. FOR THE REHABILITATION OF SANITARY SEWERS IN UNDERHILLS ROAD FROM GROSVENOR PLACE TO SUNNY HILLS ROAD (PROJECT NO. C260110) FOR THE AMOUNT OF TWO HUNDRED SEVENTY-FIVE THOUSAND ONE HUNDRED SEVENTY-THREE DOLLARS (\$275,173.00)

SUMMARY

On January 10, 2006 staff presented a resolution to the Public Works Committee requesting authorization to award a construction contract to Andes Construction, Inc. in the amount of \$275,173.00 for the rehabilitation of sanitary sewers in Underhills Road from Grosvenor Place to Sunny Hills Road (Project No. C260110). Committee members raised questions regarding the prioritization of projects that led to the decision to move forward with this project.

This supplemental report is in response to the Public Works Committee's request for a response to the following three questions:

1. What is the total funding available for resurfacing in Oakland?
2. What are the criteria used to select streets proposed for resurfacing, what is the current list of streets proposed to be resurfaced, and what is the priority list for all streets in Oakland?
3. What is the method used to select sanitary sewers for improvement?

Response 1: Total funding available for resurfacing: The total funding available for street resurfacing is approximately \$3.6 million for Fiscal Year 2005/06 and \$3 million for Fiscal Year 2006/07. The table below shows the available funding by revenue source. There are restrictions to some of the funding sources, including that the Surface Transportation Program (STP) grant project funds may only be spent on the Metropolitan Transportation System streets (primarily major arterial and collector streets). It is noted that a funding level of \$26 million per year would actually be needed to address the current backlog of resurfacing needs and to maintain Oakland's streets in good condition.

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<i>Local Funding</i>	<i>FY 05 / 06</i>	<i>FY 06 / 07</i>
Street Rehabilitation (ACTIA – 2211)	\$598,122	\$609,206
Street Rehabilitation (Traffic Safety –2416)	\$675,000	
<i>Grants</i>		
Proposition 42 Funding	\$1,844,000	
STP Cycle 2 – Street Rehabilitation	\$499,000	\$1,000,000
CMA Local Streets & Roads Local Match		\$277,643
CMA Local Streets & Roads Resurfacing		\$349,145
STP Cycle 1 Augmentation – Street Rehabilitation		\$825,000
Total	\$3,616,122	\$3,060,994

Response 2: Method of selecting street resurfacing projects: Through the use of its Pavement Management System (PMS), all city streets are ranked according to their Pavement Condition Index (PCI). The PCI is determined through an objective visual inspection and each street is assigned a numerical scale from 0-100 with 100 being the best. The Pavement Management System then determines the total Citywide need and recommends streets for rehabilitation based on a constrained budget. Grant opportunities from State and Federal sources for street rehabilitation require that jurisdictions maintain and use a PMS as a condition of eligibility.

The pavement management system selects streets in the most cost effective manner. The system is designed to optimize the resources available for resurfacing individual streets, considering the relative cost to rehabilitate and resurface streets depending upon their relative condition. With the current level of funding available to Oakland, the most optimal use of funds is to rehabilitate those streets that are ranked at the lower end of “good” condition (those with a PCI of between 50 & 69) first. This priority keeps those streets from slipping into ever-poorer condition, and reflects the significantly higher costs to rehabilitate streets in poor condition. Any remaining funds would then be allocated to rehabilitating streets that are at the bottom of the poor and very poor condition.

Attachment “A” is the current list of streets that were selected based on the following criteria:

1. PCI between 50 & 69;
2. Eligibility for funding;
3. Coordination with utility upgrades by EBMUD, PG&E, etc. and
4. Resolving drainage issues.

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Underhills Road does fall within the 50-69 PCI category and was selected for a cost-effective rehabilitation. In addition, this location was selected for rehabilitation to address serious drainage conditions that cause flooding of private properties from storm run-off flows. The proposed resurfacing would correct the grading of the street and minimize flooding of private properties and reduce the potential for soil instability at this location.

A complete list of all streets in Oakland, with their PCI, is available for review at the Office of the City Clerk. Staff is working to make this list available on the Public Works Website, currently anticipated for Summer, 2006.

Response 3: Method of selecting sanitary sewer projects: Sanitary sewer capital improvement projects fall into two primary categories: those included in the 25-year Infiltration/Inflow Correction Program; and those completed as needed under the Cyclic Replacement/Rehabilitation Program.

The Infiltration and Inflow (I/I) Correction Program established a 25-year CIP to rehabilitate and enhance key portions of the sewer system that had the greatest problems with infiltration and inflow in order to eliminate sanitary sewer overflows. The areas with the highest infiltration and inflow were identified and targeted cost-effectively for system rehabilitation and/or capacity correction. The 25-year plan was prioritized, in general, to achieve the maximum sanitary sewer overflow reduction at the least initial capital cost in the shortest time possible. Also, locations with the highest impact to public health and safety were given higher priorities. This program will be completed by 2013 and Oakland's Sewer Discharge Permit with the Regional Water Quality Control Board mandates the order of these projects. Attachment B is the year-by-year prioritized list of the 25-year plan.


In addition to the 25-year I/I Correction Program, approximately \$2 million is programmed each year for "cyclic" projects. They include projects that respond to maintenance requests and emergencies through our on-call contractor. Additionally, this program funds projects that rehabilitate sewers in coordination with street resurfacing program. Rehabilitating lines in advance of resurfacing is part of our effort to eliminate the need to return to newly resurfaced streets to make utility repairs. This funding is generally adequate to address the ongoing need and there is not a backlog for these projects; they are initiated as needed when inspections or complaints indicate a need to replace a sewer line.

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ACTION REQUESTED OF THE CITY COUNCIL

This is a supplemental report related to award of a construction contract to Andes Construction, Inc. Staff recommends that the City Council accept this supplemental information and approve the resolution.

Respectfully submitted,


for RAUL GODINEZ II, P.E.
Director, Public Works Agency

Reviewed by:
Michael Neary, P.E.
Assistant Director, Public Works Agency
Design & Construction Services Department

Prepared by:
Gus Amirzehni, P.E.
Supervising Civil Engineer
Engineering Design

APPROVED AND FORWARDED TO THE
CITY COUNCIL:


OFFICE OF THE CITY ADMINISTRATOR

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**CITY OF OAKLAND
STREET REHABILITATION PROGRAM**

CONTRACT	STREET	FROM	TO	WIDTH	LENGTH	AREA (SF)	Estimated Cost
							\$
	104th Av	Royal Ann	E St	30	361	10,830	\$ 20,456.67
	108th Av	Foothill Blvd	MacArthur Blvd	26	394	10,244	\$ 19,349.78
Cycle 1 Aug	11th St	Broadway	Madison	65	2,301	149,565	\$ 282,511.67
	14th St	Oak	Linden St	55	6,342	348,810	\$ 658,863.33
	18th Av	E 20th St	E 24th St	32	2,317	74,144	\$ 140,049.78
Prop 42	21st St	Mytle St	Filbert St	18	83	1,494	\$ 2,822.00
Prop 42	22nd St	Webster St	Broadway	36	221	7,956	\$ 15,028.00
Prop 42	23rd St	Harrison St	Waverly Av	40	366	14,640	\$ 27,653.33
Prop 42	24th Av	E 20th St	E 21st St	35	2,525	88,375	\$ 166,930.56
Prop 42	24th Av	Foothill Blvd	E 20th St	36	479	17,244	\$ 32,572.00
Prop 42	24th Av	International Blvd	Foothill Blvd	30	928	27,840	\$ 52,586.67
05-06	27th St	ML King Wy	Telegraph Av	77.6	1099	85,282	\$ 161,088.98
05-06	27th St	San Pablo St	MLK Wy	195.2	1060	206,912	\$ 390,833.78
05-06	27th St	Telegraph Av	Broadway	79.4	1115	88,531	\$ 167,225.22
Prop 42	28th St	Telegraph Av	Merrimac St	30	723	21,690	\$ 40,970.00
	29th Av	E 10th St	Bridge	30	234	7,020	\$ 13,260.00
	33rd Av	E 16th St	E 17th St	36	304	10,944	\$ 20,672.00
STP Cycle 2	35 Ave	Foothill Blvd	Harper St	24	538	12,912	\$ 24,389.33
STP Cycle 2	35th Av	E 12th St	International Blvd	36	917	33,012	\$ 62,356.00
05-06	35th Av	International Blvd	HWY 580	36	8,263	297,468	\$ 561,884.00
STP Cycle 2	35th Av	San Leandro	E 12th St	50	726	36,300	\$ 68,566.67
	36th Av	Foothill Blvd	Harper St	24	538	12,912	\$ 24,389.33
Prop 42	37th St	Webster St	Telegraph Av	36	2,390	86,040	\$ 162,520.00
	38th St	Telegraph Av	Broadway	36	498	17,928	\$ 33,864.00
	39th Av	Allendale Av	West end	26	452	11,752	\$ 22,198.22
	39th Av	Fire Plug	Bayo St	30	2,145	64,350	\$ 121,550.00
	39th Av	Masterson St	Bayo St	38	891	33,858	\$ 63,954.00
	39th Av	Masterson St	MacArthur Blvd	26	817	21,242	\$ 40,123.78
	39th Av	Victor Av	MacArthur Blvd	45	713	32,085	\$ 60,605.00
	45th St	City Limit	Linden St	26	4,237	110,162	\$ 208,083.78
	46th St	ML King Wy	City Limit	26	983	25,558	\$ 48,276.22
	47th Av	Ygnacio Av	Melrose Av	22	891	19,602	\$ 37,026.00
Prop 42	49th St	Shafter Av	Lawton Av	28	3,256	91,168	\$ 172,206.22
	4th St	Broadway	Oak St	20	695	13,900	\$ 26,255.56

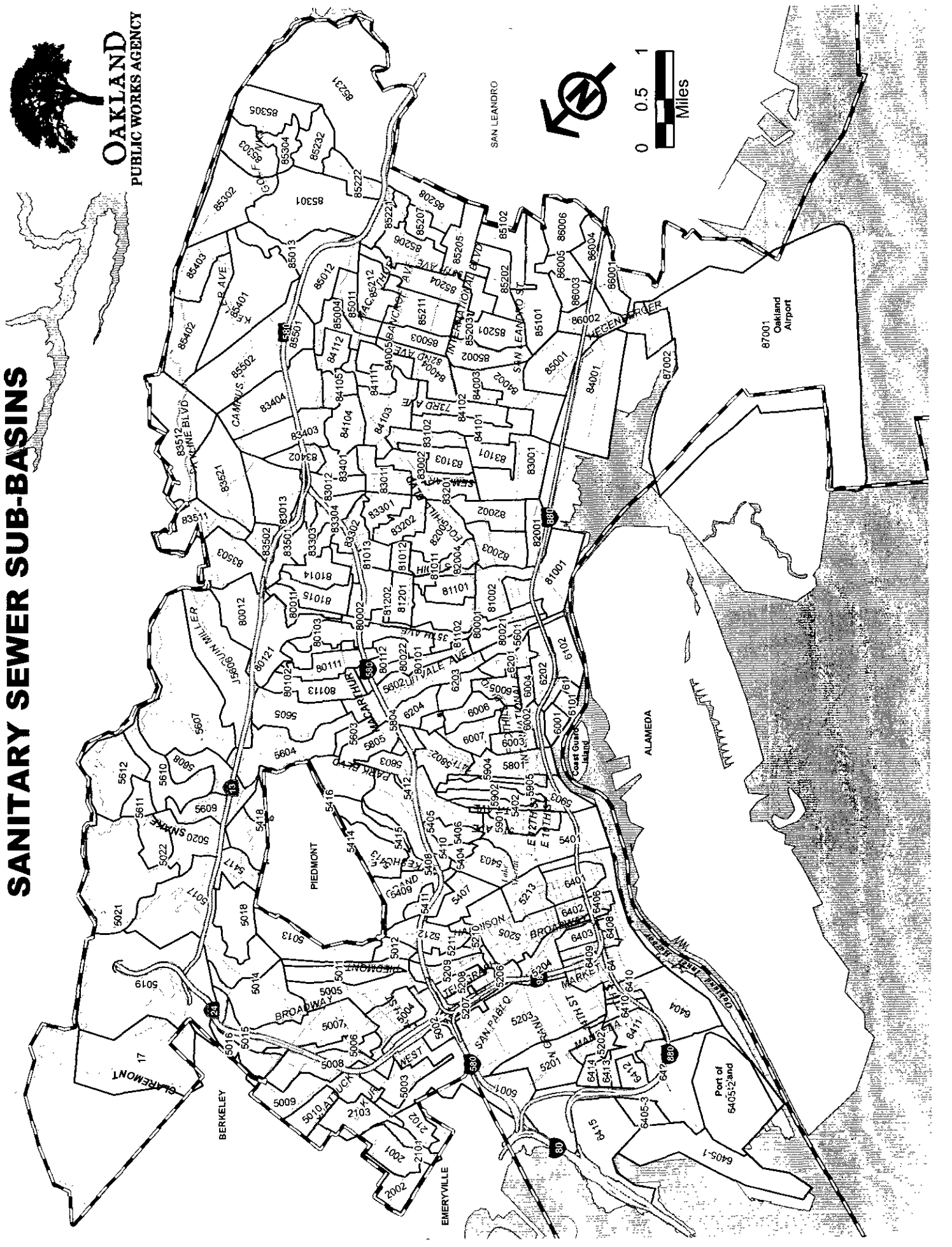
CONTRACT	STREET	FROM	TO	WIDTH	LENGTH	AREA (SF)	Estimated Cost
							\$
	56th Av	Robert St	MacArthur Blvd	30	1,814	54,420	\$ 102,793.33
05-06	56th St	Carberry Av	Shattuck Av	35	1,525	53,375	\$ 100,819.44
05-06	58th St	Carberry Av	Telegraph Av	20	720	14,400	\$ 27,200.00
05-06	59th St	Shattuck Av	Racine St	30	2,416	72,480	\$ 136,906.67
	62nd Av	Mauritania Av	MacArthur Blvd	36	205	7,380	\$ 13,940.00
Prop 42	62nd St	Telegraph Av	Claremont Av	34	1,263	42,942	\$ 81,112.67
Prop 42	63rd St	Marshall St	Vallejo St	25	1,738	43,450	\$ 82,072.22
05-06	66th Ave	Bridge	Oakport Rd	26	627	16,302	\$ 30,792.67
05-06	66th Ave	Coliseum Way	Bridge	47	640	30,080	\$ 56,817.78
	66th Ave	Olmstead St	San Leandro	41	1,040	42,640	\$ 80,542.22
05-06	66th Ave	RR Track	Coliseum Way	49	776	38,024	\$ 71,823.11
05-06	66th Ave	San Leandro	RR Track	41	518	21,238	\$ 40,116.22
	6th St	Oak St	Jefferson St	26	2,151	55,926	\$ 105,638.00
STP Cycle 2	8 St	Harrison St	Broadway	60.2	1,141	68,688	\$ 129,744.38
	A St	98th Ave	92nd Ave	32	1,734	55,488	\$ 104,810.67
	Alice St	5th St	Embarcadero	18	1,233	22,194	\$ 41,922.00
	Asilomar Dr	Colton Blvd	Balboa Dr	26	1,359	35,334	\$ 66,742.00
	Asilomar Dr	Tampa Av	Aztec Dr	60	4,418	265,080	\$ 500,706.67
	Aspenwall Rd	Thornhill Rd	Gouldin Rd	17	2,460	41,820	\$ 78,993.33
	Balboa Dr	Colton Blvd	Paso Robles	28	296	8,288	\$ 15,655.11
05-06	Barrows Rd	Trestle Glen Rd	Creed Rd	34	1,016	34,544	\$ 65,249.78
	Blair Av	City Limit	North End	44	465	20,460	\$ 38,646.67
	Brookdale Av	Fruitvale Av	35th Av	30	294	8,820	\$ 16,660.00
Prop 42	Campus Dr	High Knoll Dr	Pavement Change	35	2,846	99,610	\$ 188,152.22
	Capistrano Dr	Acalanes Dr	Topanga D.	36	1,525	54,900	\$ 103,700.00
STP Cycle 2	Castro St	2 St	5 St	42	963	40,446	\$ 76,398.00
	Chelton Dr	Elderberry Dr	Bagshotte Dr	18	963	17,334	\$ 32,742.00
05-06	Cherry St	90th Av	100th Av	28	3,252	91,056	\$ 171,994.67
05-06	Cherry St	98th Ave	90th Ave	31	2,121	65,751	\$ 124,196.33
	Clarewood Dr	Harbord Dr	Broadway Tr	34	4,700	159,800	\$ 301,844.44
	Clarke St	Redondo Av	Claremont Av	32	1,264	40,448	\$ 76,401.78
STP Cycle 2	Coliseum Wy	RR Track	66 Ave	66.1	1,552	102,587	\$ 193,775.82
	Cotter St	Shetland Av	N/End	20	1,394	27,880	\$ 52,662.22
05-06	Creed Rd	Trestle Glen Rd	North End	28	763	21,364	\$ 40,354.22
	Crown Av	Merriewood Dr	Merriewood Dr	52	5,955	309,660	\$ 584,913.33
	E 12th St	1st Av	2nd Av	34	2,052	69,768	\$ 131,784.00
STP Cycle 2	E 12th St	2nd Av	14th Av	35	5,566	194,810	\$ 367,974.44
	E 12th St	40th Ave	High St	30	813	24,390	\$ 46,070.00

CONTRACT	STREET	FROM	TO	WIDTH	LENGTH	AREA (SF)	Estimated Cost
							\$
	E 15th St	14th Av	26th Av	36	693	24,948	\$ 47,124.00
	E 20th St	14th Av	10th Av	36	314	11,304	\$ 21,352.00
Prop 42	E 21st St	Park Blvd	14th Av	16	3,252	52,032	\$ 98,282.67
	E 32nd St	14th Av	Ardley St	26	567	14,742	\$ 27,846.00
	Edes Av	105th Av	Bergedo Dr	30	2,113	63,390	\$ 119,736.67
	Edgewater Dr	Hegenberger Rd	West end	24	567	13,608	\$ 25,704.00
	Elysian Fields Dr	Golf Link Rd	Pavement Change	24	984	23,616	\$ 44,608.00
	Elysian Fields Dr	Keller Av	Pavement Change	24	2,555	61,320	\$ 115,826.67
	Emerald St	Garnet St	41 St	26	3,373	87,698	\$ 165,651.78
	Essex St	Alcatraz Av	East End	36	429	15,444	\$ 29,172.00
	Exeter Dr	Chelton Dr	Carisbrook Dr	20	2,152	43,040	\$ 81,297.78
	Farallon Wy	Pineneedle Dr	South end	30	312	9,360	\$ 17,680.00
	Florida St	North End	South end	30	1,864	55,920	\$ 105,626.67
	Glen Artney Ct	Dunkirk Av	S/End	30	902	27,060	\$ 51,113.33
	Grizzly Terrace Dr	990 Ft	900 Ft	42	1,066	44,772	\$ 84,569.33
	Grizzly Terrace Dr	990 Ft	Marlborough Terrace	26	291	7,566	\$ 14,291.33
	Grizzly Terrace Dr	Fire Plug	Fire Plug	30	271	8,130	\$ 15,356.67
	Guido St	Monterey Blvd	Bennett Pl	51	2,560	130,560	\$ 246,613.33
	Harwood Av	East End	Ross St	52	4,429	230,308	\$ 435,026.22
	Hassler Wy	Oakport Rd	Edgewater Dr	39	1,043	40,677	\$ 76,834.33
	Hawthorne Av	Summit St	Webster St	44	281	12,364	\$ 23,354.22
	Hickory St	Fuitvale Ave	West End	26	450	11,700	\$ 22,100.00
STP Cycle 2	High St	Brookdale	Redding Rd	40	2,764	110,560	\$ 208,835.56
STP Cycle 2	High St	Foothill Blvd	Brookdale Ave	34.2	4,205	143,811	\$ 271,643.00
STP Cycle 2	High St	Jenson St	Oakport Rd	37.2	287	10,676	\$ 20,166.53
	Hillmont St	73rd Ave	Partridge	23	3,412	78,476	\$ 148,232.44
	Holman Rd	Bates Rd	Fleet Rd	24	2,020	48,480	\$ 91,573.33
	Inverness Ct	Donna Wy	South end	36	775	27,900	\$ 52,700.00
	Ivanhoe Rd	Chabot Rd	Harwood Av	26	260	6,760	\$ 12,768.89
	Jackson St	5th St	Embarcadero	20	367	7,340	\$ 13,864.44
Prop 42	Joaquin Miller Rd	Sanborn Dr	Monterey Blvd	50	4,322	216,100	\$ 408,188.89
Prop 42	Joaquin Miller Rd	Skyline Blvd	Sanborn Dr	50	2,092	104,600	\$ 197,577.78
	John St	Piedmont Av	Howe St	56	4,237	237,272	\$ 448,180.44
	Jordan Rd	Monterey Blvd	Redwood Rd	28	505	14,140	\$ 26,708.89
	Key Ct	Scotia Av	N/End	34	656	22,304	\$ 42,129.78
	Krohn Ln	Drake Dr	East End	37	317	11,729	\$ 22,154.78

CONTRACT	STREET	FROM	TO	WIDTH	LENGTH	AREA (SF)	Estimated Cost
							\$
Prop 42	Lakeshore Av	E 18th St	MacArthur Blvd	32	7,796	249,472	\$ 471,224.89
05-06	Lane Ct	Harbord Dr	North End	30	488	14,640	\$ 27,653.33
	MaCall St	58th St	59th St.	24	691	16,584	\$ 31,325.33
STP Cycle 2	Macarthur Blvd	Durant Ave	Foothill Blvd	60.5	2,417	146,229	\$ 276,209.39
	Malcolm Av	Sheldon St	Caloden St	36	234	8,424	\$ 15,912.00
	Marlow Dr	Revere Av	Brookfield Av	36	1,735	62,460	\$ 117,980.00
05-06	Marr Av	Harbord Dr	Lane Ct	36	679	24,444	\$ 46,172.00
	Marshall St	59th St	55th St	26	509	13,234	\$ 24,997.56
	Marshall St	63rd St	Stanford Av	30	1,472	44,160	\$ 83,413.33
	Marshall St	Ocean Av	64th St	18	2,435	43,830	\$ 82,790.00
	McDonell Av	Mountain Blvd	East End	36	312	11,232	\$ 21,216.00
	Midvale Av	Dakota St	MacArthur Blvd	35	1,987	69,545	\$ 131,362.78
	Mirasol Av	Granada Av	Murillo Av	35	432	15,120	\$ 28,560.00
STP Cycle 2	MLK Wy	W. Grand Ave	27 St	56.5	1,573	88,875	\$ 167,874.06
	Montecito Dr	Lenox Av	Park View	35	825	28,875	\$ 54,541.67
	Moss Av	Leighton St	Vernon St	22	3,730	82,060	\$ 155,002.22
	Moss Av	MacArthur Blvd	Harrison St	29	1,420	41,180	\$ 77,784.44
	Moss Av	Oakland Av	Vernon St	20	2,241	44,820	\$ 84,660.00
	Mountain Blvd	615 Mountain Blvd	North end	30	551	16,530	\$ 31,223.33
	Mountain Blvd	Florence Terr	615 Mountain Blvd	30	166	4,980	\$ 9,406.67
	Mountain View	Leona St	Leona St	20	905	18,100	\$ 34,188.89
	Murillo Av	Oak Knoll Blvd	Margarita Av	26	1,423	36,998	\$ 69,885.11
	Nottingham Dr	Merriewood Dr	Merriewood Dr	30	977	29,310	\$ 55,363.33
Prop 42	Oakport Rd	Hassler Way	66th Ave	25	3,061	76,525	\$ 144,547.22
	Oakwood Dr	Sobrante	Thornhill	28	729	20,412	\$ 38,556.00
	Oliver Av	Stanley Av	Truman Av	22	1,026	22,572	\$ 42,636.00
	Pampas Av	High St	S/End	22	601	13,222	\$ 24,974.89
	Peabody Ln	Vallejo St	San Pablo Av	38	2,755	104,690	\$ 197,747.78
	Pelham Pl	Girvin Dr	West End	34	2,277	77,418	\$ 146,234.00
	Pelham Pl	Grivin Dr	Westover Dr	36	673	24,228	\$ 45,764.00
Prop 42	Perkins St	Orange St	Grand Av	36	1,056	38,016	\$ 71,808.00
05-06 Slurry	Phaeton Dr	Hansom Dr	Hansom Dr	24	590	14,160	\$ 26,746.67
STP Cycle 2	Powell St	Stanford Ave	City Limit	60	400	24,000	\$ 45,333.33
	Racine St	Telegraph Av	60th St	20	741	14,820	\$ 27,993.33
	Randolph Ave	MacArthur Blvd	Benton St	30	2,100	63,000	\$ 119,000.00
	Renwick St	Allendale Av	Fairfax Av	30	1,189	35,670	\$ 67,376.67
	Revere Av	Marlow Dr	Marlow Dr	20	223	4,460	\$ 8,424.44
	Rhoda Av	Montana St	MacArthur Blvd	36	4,044	145,584	\$ 274,992.00

CONTRACT	STREET	FROM	TO	WIDTH	LENGTH	AREA (SF)	Estimated Cost
							\$
	Rincon Dr	Zinn Dr	Drake Dr	30	771	23,130	\$ 43,690.00
Cycle 1 Aug	San Leandro	66th Ave	Hegenberger	78	1,898	148,044	\$ 279,638.67
	Saroni Dr	Shepherd Cyn Rd	Woodrow Dr	36	1,323	47,628	\$ 89,964.00
	School St	Fruitvale Av	35th Av	26	690	17,940	\$ 33,886.67
Cycle 1 Aug	Seminary Ave	Camden St	Sunnymere Ave	48	3,994	191,712	\$ 362,122.67
	Shaw	Stanley Av	Truman Av	26	1,753	45,578	\$ 86,091.78
05-06 Slurry	Shay Dr	Hansom Dr	Hansom Dr	30	304	9,120	\$ 17,226.67
	Shelterwood Dr	Shepherd Cyn Rd	Westover Dr	32	4,708	150,656	\$ 284,572.44
	Shetland Av	Golf Links Rd	Scotia Av	12	370	4,440	\$ 8,386.67
	Sigourney Av	Elysian Fields	West end	20	607	12,140	\$ 22,931.11
	Skyline Blvd	Broadway Terr	Grizzly Peak	26	2,018	52,468	\$ 99,106.22
	Slyhowe Rd	Monterey Blvd	d/end	20	689	13,780	\$ 26,028.89
	St Paul Ct	Proctor Av	Masonic Av	18	358	6,444	\$ 12,172.00
Prop 42	Stacy St	Scotia Av	Shetland Av	24	3,490	83,760	\$ 158,213.33
STP Cycle 2	Stanford Ave	Powell St	San Pablo Av	60	407	24,420	\$ 46,126.67
	Stephens Wy	Gravatt Dr	Gravatt Dr	22	558	12,276	\$ 23,188.00
Cycle 1 Aug	Telegraph Ave	40th St	45th St	67	1,402	93,934	\$ 177,430.89
Prop 42	Telegraph Ave	45th St	52nd	70	1,573	110,110	\$ 207,985.56
STP Cycle 2	Telegraph Ave	MacArthur Blvd	40 St	66.8	1,020	68,136	\$ 128,701.33
	Thorndale Dr	990ft. W/Elverton Dr	Sobrante Rd	30	341	10,230	\$ 19,323.33
	Thornhill Dr	Fire Plug	Overlake Ct	30	531	15,930	\$ 30,090.00
Cycle 1 Aug	Tiffin Rd	Waterhouse Rd	Lyman	85	294	24,990	\$ 47,203.33
	Truitt Ln	Clarewood Dr	d/end	24	1,713	41,112	\$ 77,656.00
	Turnley Av	Fairway Av	South End	24	394	9,456	\$ 17,861.33
05-06	Underhills Rd	Grosvenor Pl	Sunnyhills Rd	18	1,453	26,154	\$ 49,402.00
	Union St	W. Grand Ave	28th St	24	1,608	38,592	\$ 72,896.00
	Valdez St	28th St	27th St	20	931	18,620	\$ 35,171.11
	Villanova Dr	Manzanita Dr	Manzanita Dr	20	1,275	25,500	\$ 48,166.67
05-06	Wadean Pl	55th Av	54th Av	24	210	5,040	\$ 9,520.00
	Westover Dr	Shelterwood Dr	Thackeray Dr	16	413	6,608	\$ 12,481.78
	Westwood Wy	Aspinall Rd	Westwood Ct	36	617	22,212	\$ 41,956.00
	Zinn Dr	Asilomar Dr	North End	19	298	5,662	\$ 10,694.89
	Zinn Dr	South End	Drake Dr	20	108	2,160	\$ 4,080.00
TOTAL LENGTH (FT)					251,503	Estimated	\$ 17,172,594

SANITARY SEWER SUB-BASINS



Sanitary Sewer System Infiltration/Inflow Correction Program					
25-Year Compliance Plan					
Year	Type	Basin-Subbasin	FY	Project Cost	Council District
1	Rehabilitation	54-01	1987/88	\$2,076,000	2
1	Rehabilitation	54-07	1987/88	\$1,540,000	3
1	Rehabilitation	54-08	1987/88	\$1,374,000	2
1	Rehabilitation	54-11	1987/88	\$558,000	2
1	Rehabilitation	54-17	1987/88	\$840,000	1, 4
1	Rehabilitation	81-202	1987/88	\$1,264,000	4
1	Rehabilitation	83-303	1987/88	\$379,000	4, 6
1	Rehabilitation	84-005	1987/88	\$1,006,000	6
1	Relief	54-10.000	1987/88	\$2,087,000	3
1	Relief	54-11.000	1987/88		2, 3
1	Relief	54-12.000	1987/88		2
1	Relief	54-8.100	1987/88	\$1,272,000	3
1	Relief	54-8.200	1987/88		3
1	Relief	54-8.210	1987/88		2
1	Relief	54-9.000	1987/88		3
1	Relief	85-4A	1987/88		\$490,000
1	Relief	85-4B	1987/88	\$474,000	7
1	Relief	85-4C	1987/88	\$664,000	7
2	Rehabilitation	54-03	1988/89	\$627,000	2
2	Rehabilitation	54-06	1988/89	\$1,078,000	2
2	Rehabilitation	85-304	1988/89	\$928,000	7
2	Rehabilitation	85-305	1988/89		7
2	Relief	50-10.000	1988/89	\$1,178,000	1
2	Relief	50-11.000	1988/89		1
2	Relief	50-12.000	1988/89		1
2	Relief	50-7.100	1988/89		1
2	Relief	50-7.200	1988/89		1
2	Relief	50-7.300	1988/89		1
2	Relief	50-8.100	1988/89	\$1,109,000	1
2	Relief	50-8.200	1988/89		1
2	Relief	50-8.300	1988/89		1
2	Relief	54-6.000	1988/89	\$2,877,000	2, 3
2	Relief	54-7.000	1988/89		2, 3
2	Relief	54-8.000	1988/89		2, 3
2	Relief	83-2	1988/89	\$1,780,000	6
2	Relief	83-4A	1988/89	\$1,970,000	6
2	Relief	83-4B	1988/89		6
2	Relief	83-5A	1988/89		6
2	Relief	83-5B	1988/89		6
2	Relief	83-6	1988/89		6
2	Relief	83-7A	1988/89		6
2	Relief	83-7B	1988/89		6
2	Relief	83-8	1988/89		6
2	Relief	83-9	1988/89		6
2	Relief	84-2A	1988/89	\$1,532,000	6, 7
2	Relief	84-2B	1988/89		6, 7
2	Relief	84-4	1988/89		6, 7
2	Relief	84-5A	1988/89		6, 7

Year	Type	Basin-Subbasin	FY	Project Cost	Council District
2	Relief	84-5B	1988/89		6, 7
2	Relief	84-6	1988/89		6, 7
2	Relief	85-10A	1988/89		7
2	Relief	85-4D	1988/89	\$365,000	7
2	Relief	85-5A	1988/89		7
2	Relief	85-5B	1988/89		7
2	Relief	85-6	1988/89	\$1,020,000	7
2	Relief	85-7	1988/89		7
2	Relief	85-8	1988/89		7
2	Relief	85-9	1988/89		7
3	Rehabilitation	52-10	1989/90	\$570,000	3
3	Relief	52-14.000	1989/90		3
3	Relief	50-1.500	1989/90		2
3	Relief	50-12.100	1989/90		2
3	Relief	50-12.200	1989/90	\$359,000	2
3	Relief	50-14.000	1989/90		2
3	Relief	50-17.000	1989/90		2
3	Relief	50-18.000	1989/90		2
3	Relief	50-1.000	1989/90		3
3	Relief	50-2.000	1989/90	\$1,020,000	3
3	Relief	50-3.000	1989/90		3
3	Relief	50-5.000	1989/90		3
3	Relief	80-1A	1989/90		5
3	Relief	80-4A	1989/90	\$415,000	4
3	Relief	80-4B	1989/90		4
3	Relief	81-5	1989/90	\$80,000	5
4	Rehabilitation	50-15	1990/91	\$580,000	1
4	Rehabilitation	84-002	1990/91	\$645,000	7
4	Rehabilitation	85-013	1990/91	\$960,000	7
4	Relief	21-1.000	1990/91	\$1,766,298	1
4	Relief	54-3.000	1990/91	\$2,262,000	2
4	Relief	54-4.000	1990/91		2
4	Relief	54-5.000	1990/91	\$2,920,000	2
4	Relief	82-1A	1990/91		5
4	Relief	82-1B	1990/91	\$686,000	5
4	Relief	83-1	1990/91		6, 7
4	Relief	83-3A	1990/91		6, 7
4	Relief	83-3B	1990/91		6, 7
4	Relief	84-1	1990/91	\$12,682,789	6, 7
4	Relief	84-3A	1990/91		6, 7
4	Relief	84-3B	1990/91		6, 7
4	Relief	85-1B	1990/91		6, 7
5	Rehabilitation	83-301	1991/92	\$1,151,000	6
5	Rehabilitation	83-302	1991/92	\$1,189,000	6
5	Rehabilitation	83-304	1991/92	\$481,000	6
5	Rehabilitation	83-521	1991/92	\$457,000	6
5	Rehabilitation	84-103	1991/92	\$1,105,000	6
5	Rehabilitation	86-004	1991/92		7
5	Relief	86-1	1991/92	\$593,000	7
5	Relief	80-1B	1991/92	\$1,031,000	5
5	Relief	80-2A	1991/92	\$87,400	5

Year	Type	Basin-Subbasin	FY	Project Cost	Council District
5	Relief	80-2B	1991/92	\$1,355,000	5
6	Rehabilitation	56-08	1992/93	\$1,720,000	4
6	Rehabilitation	80-012	1992/93	\$1,034,000	4
6	Rehabilitation	80-121	1992/93	\$2,573,000	4
6	Rehabilitation	84-111	1992/93	\$650,000	6
6	Rehabilitation	85-001	1992/93	\$730,000	7
6	Rehabilitation	87-002	1992/93	\$451,000	7
6	Relief	54-2.000	1992/93	\$1,000,000	2
6	Relief	56-8.000	1992/93	\$224,000	4
6	Relief	56-9.000	1992/93		4
6	Relief	62-4.000	1992/93	\$410,000	5
6	Relief	80-6A	1992/93	\$1,142,000	4
6	Relief	80-6B	1992/93		4
7	Rehabilitation	50-17-3	1993/94	\$1,793,000	1, 4
7	Rehabilitation	50-17-4	1993/94		1, 4
7	Rehabilitation	52-13	1993/94	\$1,288,000	3
7	Rehabilitation	59-02	1993/94	\$858,000	2
7	Rehabilitation	86-006	1993/94	\$2,011,000	7
7	Relief	52-11.200	1993/94	\$134,000	3
7	Relief	52-8.300	1993/94	\$196,000	3
7	Relief	52-8.400	1993/94	\$551,000	3
7	Relief	56-1.000	1993/94	\$930,000	5
7	Relief	59-1.120	1993/94	\$240,000	2
7	Relief	59-2.200	1993/94	\$188,000	2
7	Relief	59-3.000	1993/94		2
7	Relief	59-4.000	1993/94		2
8	Rehabilitation	50-03	1994/95	\$1,249,000	1
8	Rehabilitation	52-11	1994/95	\$852,800	3
8	Rehabilitation	85-301	1994/95	\$1,450,800	7
8	Relief	56-2.000	1994/95	\$566,800	5
8	Relief	56-3.000	1994/95	\$2,317,100	5
9	Rehabilitation	56-10	1995/96	\$2,785,300	4
9	Rehabilitation	60-02	1995/96	\$507,600	2
9	Rehabilitation	80-011	1995/96	\$1,035,700	4
9	Relief	54-8.221	1995/96	\$73,000	2
9	Relief	54-8.222	1995/96	\$505,000	2
9	Relief	56-10.000	1995/96	\$878,000	4
9	Relief	56-11.000	1995/96		4
9	Relief	56-12.000	1995/96		4
9	Relief	60-3.100	1995/96	\$401,800	2, 5
9	Relief	60-6.000	1995/96		2, 5
9	Relief	80-3A	1995/96	\$708,500	4
9	Relief	80-3B	1995/96		4
10	Rehabilitation	62-03	1996/97	\$807,500	5
10	Rehabilitation	64-02	1996/97	\$1,185,000	2, 3
10	Rehabilitation	80-002	1996/97	\$603,700	4
10	Rehabilitation	85-212	1996/97	\$2,256,800	7
10	Relief	52-8.100	1996/97	\$4,142,600	3
10	Relief	52-8.200	1996/97	\$2,664,400	3
10	Relief	62-3.000	1996/97	\$589,100	5
10	Relief	6402-1.000	1996/97	\$701,100	2, 3

Year	Type	Basin-Subbasin	FY	Project Cost	Council District
11	Rehabilitation	50-17-6	1997/98	\$1,781,800	1, 4
11	Rehabilitation	85-302	1997/98	\$946,600	7
11	Relief	56-4.000	1997/98	\$145,600	4
11	Relief	56-4.100	1997/98	\$35,500	4
11	Relief	56-5.000	1997/98	\$254,200	4
11	Relief	56-6.000	1997/98	\$879,000	4
11	Relief	6401-1.000	1997/98	\$34,800	3
11	Relief	6403-1.000	1997/98	\$1,351,400	3
12	Rehabilitation	62-04	1998/99	\$1,027,200	5
12	Rehabilitation	85-011	1998/99	\$853,200	7
12	Relief	52-7.000	1998/99	\$557,200	3
12	Relief	52-8.000	1998/99	\$238,100	3
12	Relief	52-9.000	1998/99	\$256,100	3
12	Relief	58-3.100	1998/99	\$5,200	5
12	Relief	58-3.200	1998/99	\$153,600	5
12	Relief	58-3.300	1998/99	\$292,300	5
12	Relief	62-2.000	1998/99	\$1,139,200	5
12	Relief	80-5A	1998/99	\$257,800	4
12	Relief	80-5B	1998/99	\$1,499,500	4, 5
13	Rehabilitation	21-03	1999/00	\$3,095,000	1
13	Rehabilitation	64-07	1999/00	\$266,600	2, 3
13	Rehabilitation	82-001	1999/00	\$431,500	6
13	Rehabilitation	85-004	1999/00	\$1,509,100	6, 7
13	Relief	21-2.000	1999/00	\$126,400	1
13	Relief	52-1.000	1999/00	\$845,200	3
14	Rehabilitation	58-01	2000/01	\$4,870,400	2
14	Relief	58-2.000	2000/01	\$47,100	2, 5
14	Relief	58-3.000	2000/01	\$252,700	2, 5
15	Rehabilitation	20-02	2001/02	\$2,048,200	4
15	Rehabilitation	80-111	2001/02	\$2,189,900	6
15	Rehabilitation	84-105	2001/02	\$807,800	6
15	Rehabilitation	84-112	2001/02	\$1,790,700	6
16	Rehabilitation	20-01	2002/03	\$1,406,900	1
16	Rehabilitation	81-014	2002/03	\$2,159,700	4, 6
16	Relief	52-2.000	2002/03	\$1,406,000	3
16	Relief	52-3.000	2002/03	\$221,700	3
17	Rehabilitation	52-05	2003/04	\$5,362,000	3
17	Rehabilitation	80-103	2003/04	\$1,955,800	4
17	Relief	58-4.000	2003/04	\$92,300	5
18	Rehabilitation	64-06	2004/05	\$339,800	2, 3
18	Rehabilitation	85-303	2004/05	\$1,058,400	7
18	Relief	52-4.000	2004/05	\$2,179,200	3
18	Relief	52-5.000	2004/05	\$1,362,500	3
19	Rehabilitation	64-01	2005/06	\$2,689,200	2, 3
19	Rehabilitation	80-112	2005/06	\$2,585,600	4, 5
19	Rehabilitation	83-101	2005/06	\$1,546,800	6
19	Relief	6404-1.000	2005/06	\$162,500	3
20	Relief	6405-2.000	2006/07	\$14,100	3
20	Relief	6405-3.000	2006/07	\$2,145,000	3
21	Rehabilitation	85-101	2007/08	\$1,709,800	7
21	Rehabilitation	85-232	2007/08	\$1,338,500	7

Year	Type	Basin-Subbasin	FY	Project Cost	Council District
21	Rehabilitation	86-003	2007/08	\$1,475,800	7
21	Relief	6405-4.000	2007/08	\$1,191,500	3
21	Relief	82-2	2007/08	\$154,800	4, 5
21	Relief	82-3	2007/08	\$1,093,200	4
22	Rehabilitation	80-113	2008/09	\$3,561,600	4
22	Rehabilitation	84-104	2008/09	\$856,000	6
22	Rehabilitation	85-502	2008/09	\$1,038,400	6
22	Relief	54-2.100	2008/09	\$309,300	2
22	Relief	54-2.200	2008/09	\$479,700	2
22	Relief	54-5.100	2008/09	\$415,400	2
22	Relief	54-5.120	2008/09	\$18,900	2
22	Relief	54-5.200	2008/09	\$152,000	2
22	Relief	54-5.300	2008/09	\$489,900	2
22	Relief	54-8.230	2008/09	\$134,600	2
23	Rehabilitation	50-10	2009/10	\$2,519,000	1
23	Rehabilitation	85-012	2009/10	\$1,377,600	7
23	Relief	54-8.240	2009/10	\$537,600	2
23	Relief	54-8.250	2009/10	\$243,400	2
23	Relief	54-8.260	2009/10	\$89,900	2
23	Relief	56-3.100	2009/10	\$416,200	4
23	Relief	56-3.200	2009/10	\$897,100	4
23	Relief	81-3A	2009/10	\$623,900	4
23	Relief	81-3B	2009/10	\$1,485,500	4
24	Relief	52-6.000	2010/11	\$2,136,600	3
24	Relief	54-8.400	2010/11	\$557,300	2
24	Relief	54-8.610	2010/11	\$533,100	2
24	Relief	54-8.900	2010/11	\$53,100	2
24	Relief	81-1	2010/11	\$4,185,900	5
24	Relief	81-4	2010/11	\$889,200	5
25	Rehabilitation	61-01	2011/12	\$436,900	5
25	Rehabilitation	80-102	2011/12	\$2,160,300	4
25	Relief	54-8.500	2011/12	\$303,100	2
25	Relief	54-8.600	2011/12	\$2,753,500	2
25	Relief	54-8.700	2011/12	\$441,000	2
25	Relief	56-6.120	2011/12	\$682,200	4
25	Relief	61-2.000	2011/12	\$268,500	5
25	Relief	81-2	2011/12	\$1,053,500	4, 5
			Total	\$201,028,287	