

Appendix K

Preliminary Project Cost Estimate

Palomar Street Grade Separation

Project Cost Estimate

Revised: January 16, 2020

Design Level:

Project Report

Estimated By:

HNTB

Item	Quantity	Unit	Unit Price	Amount	Subtotal
Earthwork					
CLEARING AND GRUBBING	1	LS	\$ 300,000	\$ 300,000	
REMOVE PCC SIDEWALK	36,018	SF	\$ 2	\$ 72,040	
REMOVE AC PAVEMENT	195,310	SF	\$ 2	\$ 390,620	
REMOVE CURB AND GUTTER	7,000	LF	\$ 8	\$ 56,000	
EARTH EMBANKMENT (FILL)	3,700	CY	\$ 20	\$ 74,000	
EXCAVATION (CUT)	84,000	CY	\$ 25	\$ 2,100,000	
Subtotal					\$2,992,660
Site Civil					
AC PAVEMENT	3,666	TON	\$ 120	\$ 439,920	
AGGREGATE BASE	9,163	CY	\$ 50	\$ 458,150	
PCC CURB RAMP	4,633	SF	\$ 25	\$ 115,830	
PCC SIDEWALK	35,982	SF	\$ 6	\$ 215,890	
PCC STAMPED CONCRETE	5,224	SF	\$ 15	\$ 78,360	
PCC DRIVEWAY	1,571	SF	\$ 15	\$ 23,570	
PCC CROSS GUTTER	4,576	SF	\$ 15	\$ 68,640	
CURB AND GUTTER	5,316	LF	\$ 25	\$ 132,900	
CURB ONLY	4,380	LF	\$ 20	\$ 87,600	
RETAINING CURB	218	LF	\$ 20	\$ 4,360	
Subtotal					\$1,625,220
Traffic & Lighting					
TRAFFIC CONTROL	1	LS	\$ 500,000	\$ 500,000	
TEMPORARY LIGHTING	1	LS	\$ 150,000	\$ 150,000	
TRAFFIC SIGNAL - Palomar/Trenton	1	LS	\$ 275,000	\$ 275,000	
TRAFFIC SIGNAL - Palomar/Shopping Center	1	LS	\$ 275,000	\$ 275,000	
TRAFFIC SIGNAL - HAWK	1	LS	\$ 175,000	\$ 175,000	
SIGNING, STRIPING, MARKINGS	1	LS	\$ 100,000	\$ 100,000	
STREET LIGHTING	25	EA	\$ 20,000	\$ 500,000	
Subtotal					\$1,975,000
Track					
CROSSOVER	1	LS	\$ 1,300,000	\$ 1,300,000	
TEMPORARY AT-GRADE CROSSING	1	LS	\$ 500,000	\$ 500,000	
Subtotal					\$1,800,000
Rail Signal & OCS					
OCS MODIFICATION/STAGING	4	EA	\$ 250,000	\$ 1,000,000	
MISC SIGNALING ALLOWANCE	1	LS	\$ 1,350,000	\$ 1,350,000	
Subtotal					\$2,350,000
Structures					
BRIDGE - INDUSTRIAL	7,415	SF	\$ 280	\$ 2,076,200	
BRIDGE - RAILROAD	7,250	SF	\$ 1,025	\$ 7,431,250	
RETAINING WALLS SIDEWALK	10,267	SF	\$ 125	\$ 1,283,371	
RETAINING WALLS UPPER SECANT PILE	22,601	SF	\$ 150	\$ 3,390,150	
RETAINING WALL RAILING	2,693	LF	\$ 200	\$ 538,600	
STAIR RAILING	420	LF	\$ 150	\$ 63,042	
BARRIER RAILING	681	LF	\$ 250	\$ 170,335	
STAIRWELLS	2	EA	\$ 150,000	\$ 300,000	
SHEETING/SHORING/BRACING	1	LS	\$ 250,000	\$ 250,000	
Subtotal					\$15,502,948

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Item	Quantity	Unit	Unit Price	Amount	Subtotal
Culverts and Drainage					
PUMP STATION	1	LS	\$ 2,500,000	\$ 2,500,000	
18" RCP	250	LF	\$ 200	\$ 50,000	
24" RCP	780	LF	\$ 225	\$ 175,500	
48" RCP	270	LF	\$ 400	\$ 108,000	
60" RCP	870	LF	\$ 650	\$ 565,500	
24" RCP, 3000D, JACK BORE	130	LF	\$ 750	\$ 97,500	
CATCH BASINS/INLETS	21	EA	\$ 10,000	\$ 210,000	
MANHOLES/JUNCTIONS	14	EA	\$ 7,500	\$ 105,000	
DETENTION BASIN & CHAMBERS	1	EA	\$ 425,000	\$ 425,000	
STORMWATER DEVICES (Filterra, Bioswale, etc.)	19	EA	\$ 40,000	\$ 760,000	
Subtotal					\$4,996,500
Landscape & Irrigation					
24" BOX TREES	130	EA	\$ 800	\$ 104,000	
LANDSCAPE	42,408	SF	\$ 8	\$ 339,264	
IRRIGATION	42,408	SF	\$ 10	\$ 424,080	
Subtotal					\$867,344
Site Mitigation					
SWPP	1	LS	\$ 250,000	\$ 250,000	
DEWATERING	1	LS	\$ 100,000	\$ 100,000	
PERMANENT EROSION CONTROL (HYDROSEED)	1	LS	\$ 50,000	\$ 50,000	
Subtotal					\$400,000
Utilities					
SEWER 8" VCP	295	LF	\$ 175	\$ 51,625	
SEWER 15" VCP	40	LF	\$ 200	\$ 8,000	
SEWER 21" VCP	470	LF	\$ 275	\$ 129,250	
SEWER MANHOLES	10	EA	\$ 7,500	\$ 75,000	
SEWER FORCE MAIN THRU BRIDGE	40	LF	\$ 500	\$ 20,000	
SEWER LIFT STATION	1	LS	\$ 1,500,000	\$ 1,500,000	
WATER 8" DIP	210	LF	\$ 200	\$ 42,000	
WATER 10" DIP	2,050	LF	\$ 250	\$ 512,500	
WATER 16" DIP	314	LF	\$ 299	\$ 93,886	
WATER 16" DIP	315	LF	\$ 300	\$ 94,500	
SDG&E Steel Pole Relocation (in easement)	1	LS	\$ 1,500,000	\$ 1,500,000	
Subtotal					\$4,026,761
Base Construction Estimate (BCE)				\$ 36,536,433	
MINOR ADDITIONS/ALLOWANCES	10.00%	x	BCE	\$ 3,653,600	
Contractor Mobilization	10.00%	x	BCE	\$ 3,653,600	
Contractor Demobilization	5.00%	x	BCE	\$ 1,826,800	
Contingency	25.00%	x	BCE	\$ 9,134,100	
Subtotal					\$18,268,100
				CONSTRUCTION COST ESTIMATE (CCE)	\$ 54,805,000

Right-of-Way

Temporary R/W, Easements	123,088	SF	\$ 37	\$ 4,563,000	
Easements (Utility/Drainage)	106,928	SF	\$ 10	\$ 1,077,000	
Easements (Roadway Purposes)	13,871	SF	\$ 375	\$ 5,202,000	
Property Acquisition	64,368	SF	\$ 60	\$ 3,862,000	
Appraisals & ROW Consultant	15	%	R.O.W Costs	\$ 2,206,900	
Right-of-way Contingency (10% to 35%)	35	%	R.O.W Costs	\$ 5,149,300	
				RIGHT-OF-WAY COST ESTIMATE	\$ 22,060,000

NOTE:

Acquisition assumes that MTS rail corridor and trolley station site are via permit only with no associated acquisition cost.

Additionally, southwest corner at Palomar and Industrial are offers of dedication from the development, no costs shown.

Additional utility easements may be required.

Cost to cure, goodwill, severance damages included