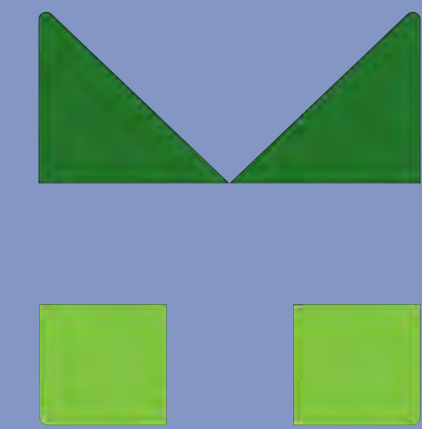


Bayside Drive Safety Improvement Project



A.M.F Engineering | Design Team T-5

Client Consultant: Mark Thomas
Project Manager: Jose Guadalupe Santillan Avelar
Design Engineers: Cyndi Wu, Dawn Malla, Zilei Dong
Industry Advisors: Arturo Vivar, P.E, Darlyn Hernandez, Chuck Karunathilake, Gerardo Padilla, Yon Chung
WINTER DESIGN REVIEW 2020



MARK THOMAS

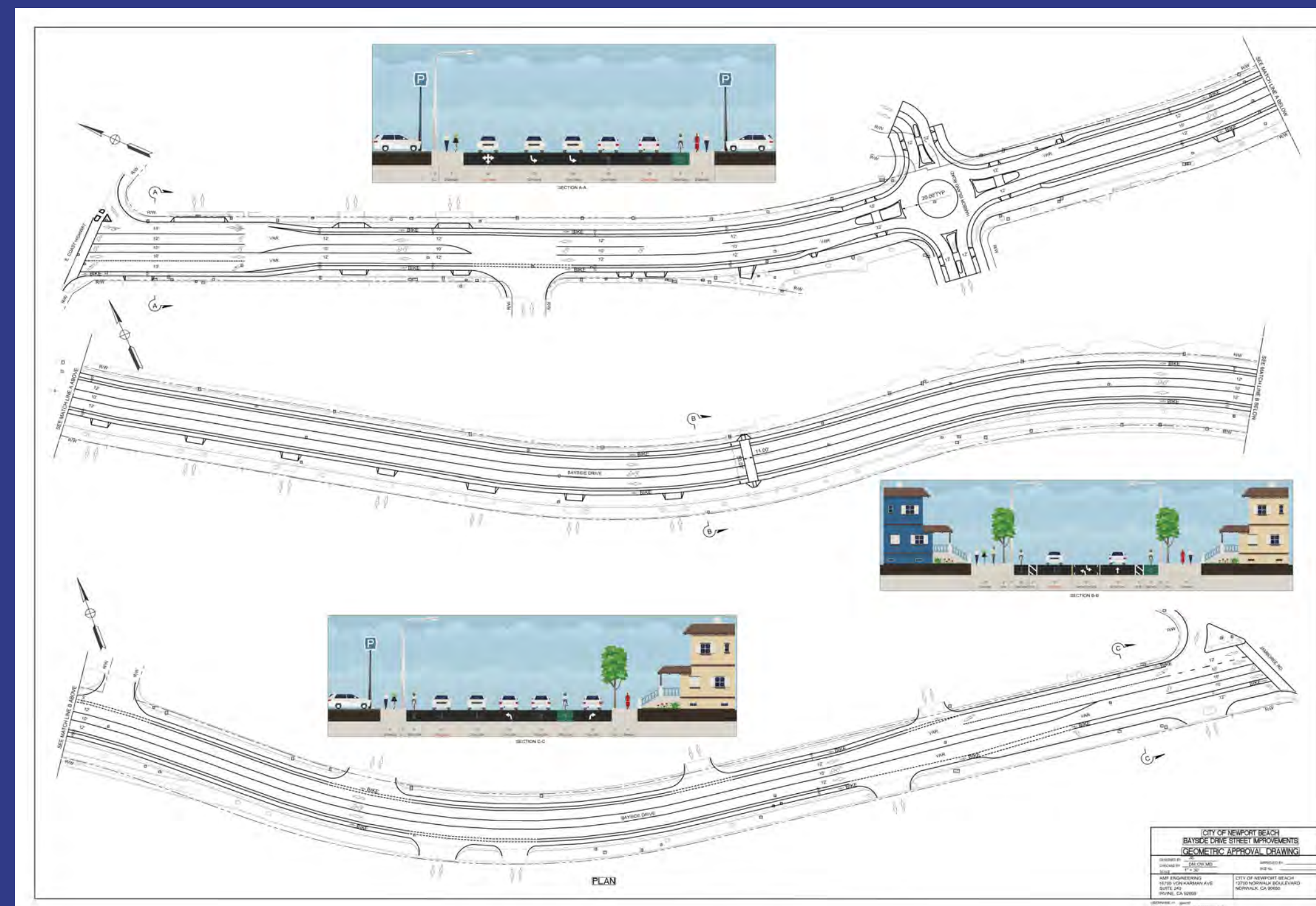
PROJECT DESCRIPTION

A.M.F Engineering is working in collaboration with Mark Thomas to implement traffic calming strategies on Bayside Drive in the City of Newport Beach between East Coast Highway and Jamboree Road to increase pedestrian and bicyclist safety. Bayside Drive is a secondary arterial that provides connections for numerous users. The limits of the project are between the corridor from East Coast Highway to Jamboree Road/Marina Avenue.

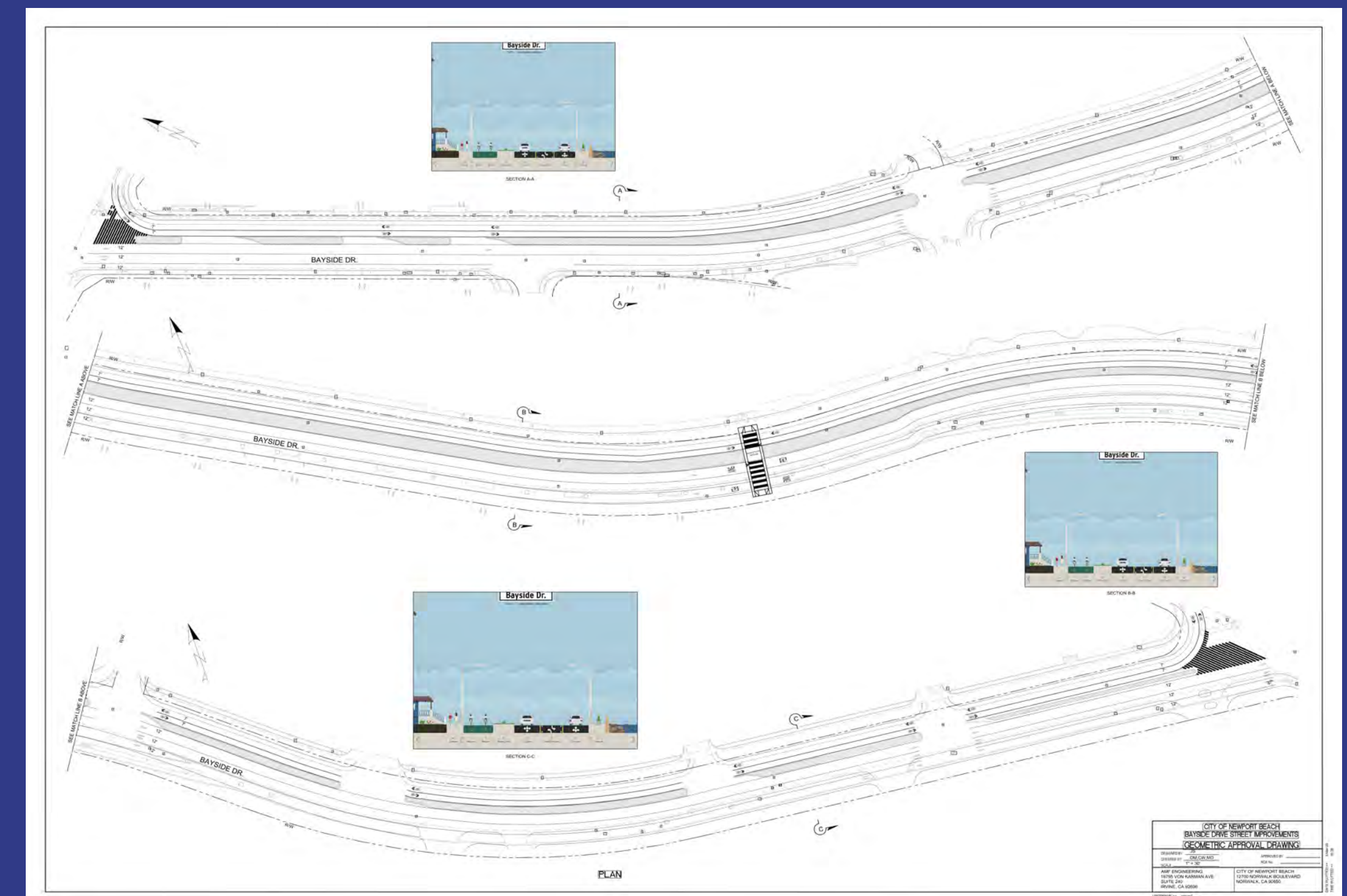
SITE LOCATION



ALTERNATIVE 1



ALTERNATIVE 2



COST ESTIMATION

Alternative 1				
Item	Cost	Unit	Amount	Total Cost
Remove Concrete (Curb, Gutter, & Sidewalk)	\$408.65	C.Y.	33	\$13,485.45
Remove Asphalt & Concrete Pavement	\$9.94	S.F.	247,500	\$2,460,150.00
Minor Concrete (Curb, Sidewalk, & Curb Ramps)	\$1,298.00	C.Y.	716	\$929,368.00
Place Hot Mix Asphalt	\$13.44	S.F.	225,000	\$3,024,000.00
Thermoplastic Pavement Marking	\$6.48	S.F.	11250	\$72,900.00
Street Signing	\$500.00	Unit	35	\$17,500.00
Roundabout Flat price	\$250,000.00	Unit	1	\$250,000.00
Final Cost				\$6,767,403.45

Alternative 2				
Item	Cost	Unit	Amount	Total Cost
Remove Concrete (Curb, Gutter, & Sidewalk)	\$408.65	C.Y.	25	\$10,216.25
Remove Asphalt & Concrete Pavement	\$9.94	S.F.	215,000	\$2,137,100.00
Minor Concrete (Curb, Sidewalk, & Curb Ramps)	\$1,298.00	C.Y.	850	\$1,103,300.00
Place Hot Mix Asphalt	\$13.44	S.F.	195,000	\$2,620,800.00
Thermoplastic Pavement Marking	\$6.48	S.F.	9550	\$61,884.00
Street Signing	\$500.00	Unit	21	\$10,500.00
Final Cost				\$5,943,800.25

PLANS FOR NEXT PHASE

Project, Specifications, and Estimates (PS&E)
Roadway Plans
Signing & Striping Plans
Pavement Rehabilitation