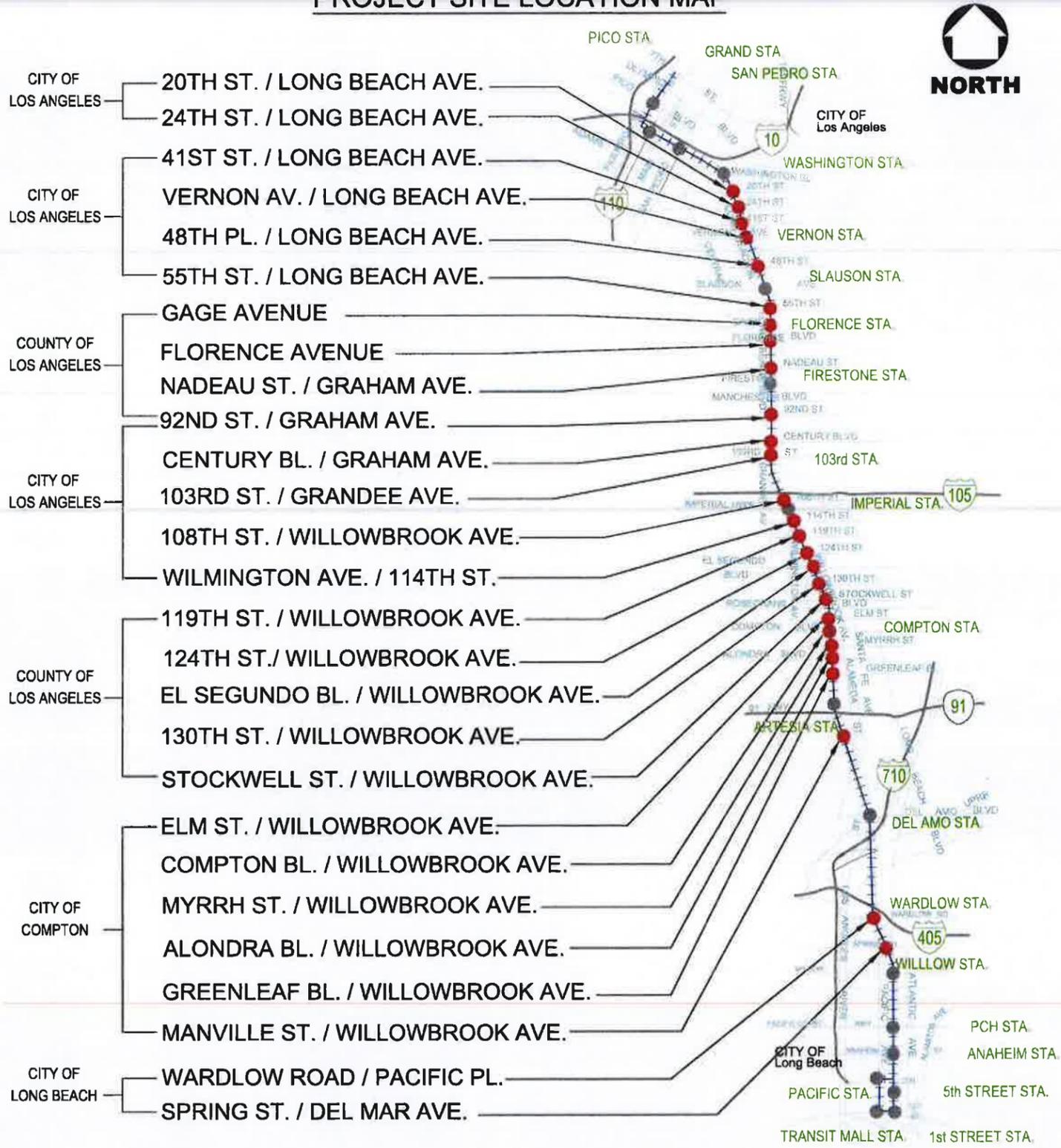


ATTACHMENT C
RECONCILIATION OF ESTIMATES RELATED TO PROJECTS
205063 and 205104 - MBL Pedestrian Safety Enhancement At Grade Crossings

Use of Funds	Original Project Estimate (19 intersections; 11 active gates)	Revised Original Project Estimate (19 intersections; 11 active gates) After Final Design	Difference	Incremental Costs for New Safety Upgrades (27 intersections, 108 active gates)	Total Costs New MBL Project (Projects 205104 and 205603)	
Design Phase						
Engineering Facilities and Systems	\$166,868	\$327,000	(\$160,132)		\$327,000	
Other Metro Departments	\$0	\$190,000	(\$190,000)		\$190,000	
Outside Consultants	\$0	\$389,359	(\$389,359)	\$1,958,641	\$2,348,000	
Design Phase Total	\$166,868	\$906,359	(\$739,491)	\$1,958,641	\$2,865,000	
Construction Phase (By Metro and Contractor)						
Crossing Panels (By Metro)	\$1,493,100	\$1,346,000	\$147,100		\$1,346,000	
Flagging (By Metro)	\$525,881	\$600,000	(\$74,119)		\$600,000	
Construction Contract Bid (C1086-205063)	\$4,648,595	\$4,648,595	\$0	\$0	\$4,648,595	
Construction Contract Bid (C1086-205063) due to CPUC Requirements	\$0	\$0	\$0	\$7,262,711	\$7,262,711	Increase in cost due to CPUC requirements for installing active pedestrian gates at all grade crossings
Utilities Conflicts (Allowance)	\$0	\$125,000	(\$125,000)	\$375,000	\$500,000	Potential utilities conflict due not anticipated in the original budget
Outside Curb ADA Compliance	\$100,250	\$100,250	\$0	\$468,518	\$568,768	
Subtotal Metro Construction Phase	\$6,767,826	\$6,819,845	(\$52,019)	\$8,106,229	\$14,926,074	
Construction Phase (By Union Pacific)						
UPRR Concret Panels	\$0	\$0	\$0	\$1,830,190	\$1,830,190	UPRR grade crossing cost required by UPRR and was not anticipated in the original estimate (See UPRR letter dated 03/12/15)
UPRR Active Warning Devices	\$0	\$0	\$0	\$6,371,826	\$6,371,826	UPRR active warning devices required by CPUC and was not anticipated in the original estimate (See UPRR letter dated 03/12/15)
UPRR Flagging	\$0	\$0	\$0	\$600,000	\$600,000	
UPRR ROW Easement	\$0	\$0	\$0	\$470,000	\$470,000	UPRR Right-of-Way cost was not anticipated in the original budget (See UPRR letter dated 03/12/15)
Contingency on UP Work (T&M) @15%	\$0	\$0	\$0	\$1,391,000	\$1,391,000	
Subtotal Union Pacific Construction Phase	\$0	\$0	\$0	\$10,663,016	\$10,663,016	
Construction Soft Cost						
				\$0		
Engineering (DSDC, RFI, Submittals Review) @8%	\$0	\$545,588	(\$545,588)	\$648,498	\$1,194,086	Soft Cost were not anticipated in the original budget
Construction Management @8%	\$0	\$545,588	(\$545,588)	\$648,498	\$1,194,086	Soft Cost were not anticipated in the original budget
Third Party @2%	\$0	\$136,397	(\$136,397)	\$162,125	\$298,521	Soft Cost were not anticipated in the original budget
Agency Costs: Project Control, Procurement, etc. 4%	\$0	\$272,794	(\$272,794)	\$324,249	\$597,043	Soft Cost were not anticipated in the original budget
Contract Modification Authority (CMA) @10%	\$765,306	\$487,385	\$277,922	\$810,623	\$1,298,007	Higher due to increase in construction cost
Subtotal Soft Costs	\$765,306	\$1,987,750	(\$1,222,444)	\$2,593,993	\$4,581,744	Higher due to increase in construction cost
Construction Phase Total	\$7,533,132	\$8,807,595	(\$1,274,463)	\$21,363,238	\$30,170,834	
Total Project cost	\$7,700,000	\$9,713,954	(\$2,013,954)	\$23,321,879	\$33,035,834	

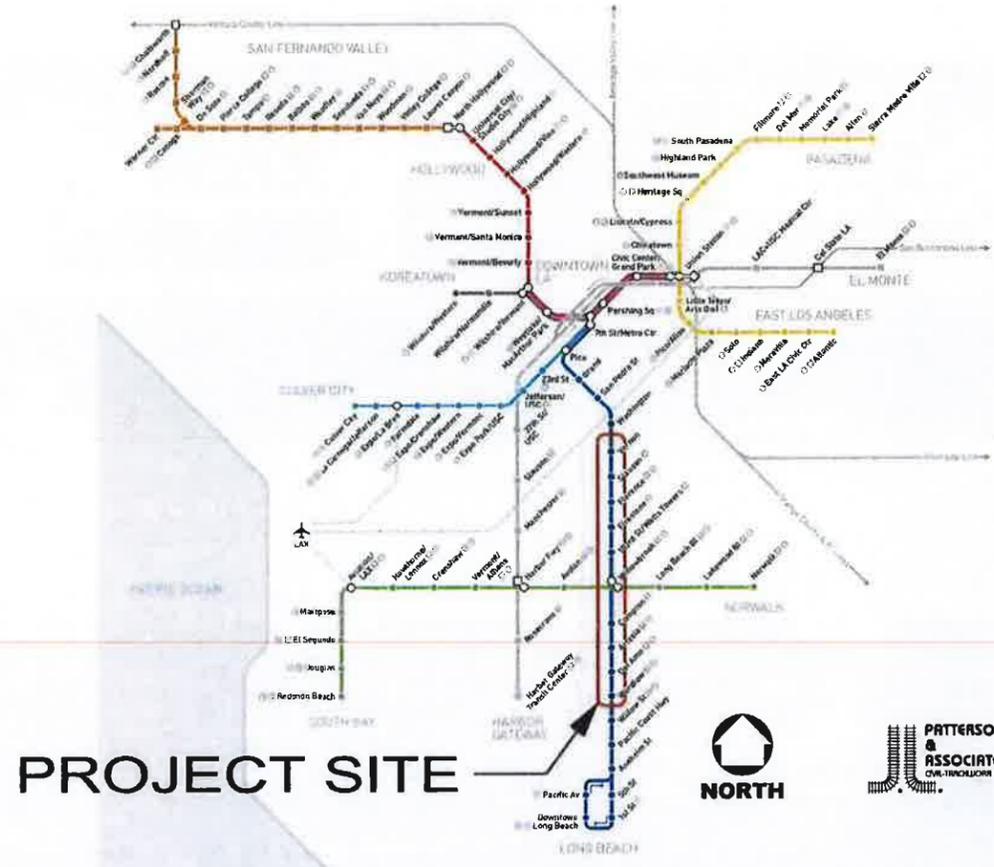
PROJECT SITE LOCATION MAP



METRO BLUE LINE
PEDESTRIAN AND SWING GATE
INSTALLATION

CONTRACT NUMBER - C1086

JUNE 25, 2014



PATTERSON & ASSOCIATES, INC.
725 TOWN & COUNTRY RD
SUITE 300
ORANGE, CA 92868



LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

[Signature]
RECOMMENDED
DATE 7/28/14

[Signature]
APPROVED
DATE 7/29/2014

TYPICAL GRADE CROSSING IMPROVEMENT

UPRR GRADE CROSSING PANEL EXTENSION BY UPRR FORCES

ACTIVE PEDESTRIAN GATE REQUIRED BY CPUC (UPRR INSTALLED)

UPRR PROPERTY ENCROACHMENT COST

CITY OF LA REQUIREMENT: FARSIDE ADA RAMP CONSTRUCTION

METRO

UPRR

UPRR FLAGGING COST

CITY OF LA REQUIREMENT: FARSIDE ADA RAMP AND STREET IMPROVEMENTS

ACTIVE PEDESTRIAN GATE REQUIRED BY CPUC

ATTACHMENT C
page 3 of 3

