

## CONTRACT MODIFICATION/CHANGE ORDER LOG

**UNIVERSAL FARE SYSTEM / OP02461010001**  
**UNIVERSAL FARE SYSTEM, SUPPORT SERVICES / OP02461010MAINT000**

<b>Mod. No.</b>	<b>Description</b>	<b>Status (approved or pending)</b>	<b>Date</b>	<b>Amount</b>
1	Table X-1 Milestone Changes	Approved	8/19/2002	\$0.00
2	Ticket Vending Machine Soft Keys	Approved	9/4/2002	\$0.00
3	San Fernando Valley BRT, Additional Quantities	Approved	4/13/2004	\$7,454,844.00
4	Modification to General Conditions	Approved	10/8/2002	\$0.00
5	TVM Third Coin Hopper	Approved	8/22/2003	\$416,858.00
6	Stand Alone Validator Video Clips	Approved	3/3/2003	\$0.00
7	Gold Line Functional Test Waiver	Approved	2/13/2003	\$0.00
8	Languages Supported	Approved	2/13/2004	\$0.00
9	Modifications to Compensation & Payment	Approved	2/20/2003	\$0.00
10	Smart Card to Smart Card Value Transfer	Approved	3/3/2003	\$0.00
11	SCADA Cable Installation on Gold Line	Approved	3/3/2003	\$48,476.00
12	Gold Line Functional Test Waivers	Approved	4/8/2003	\$0.00
13	Farebox Coin Dejam	Approved	4/8/2003	\$0.00
14	Change in Milestone Schedule	Approved	4/16/2003	\$0.00
15	Time Extension, Gold Line	Approved	7/1/2003	\$0.00
16	Change from Datastream MP5 to Express Metrix	Approved	7/1/2003	\$0.00
17	Final Design Review, changes in CDRLS	Approved	7/18/2003	\$0.00
18	Deletion of Printer from Handheld Validator	Approved	1/6/2004	(\$35,252.00)
19	Variable Message Sign	Approved	2/19/2004	\$243,828.00
20	Changes to Compensation and Payment	Approved	4/7/2004	\$0.00

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21	PCMCIA Card Slot use for WAN	Approved	4/13/2004	\$0.00
22	Data Transmission System	Approved	6/22/2004	\$675,000.00
23	Mifare Card Initialization and Verification	Approved	6/8/2004	\$9,629.00
24	Farebox Mounting Adapter for NABI Buses	Approved	7/9/2004	\$32,485.00
25	Provide Regional CDCS	Approved	2/25/2005	\$5,348,335.00
25.01	Regional CDCS Overhead Rate Adjustment	Approved	1/17/2007	(\$31,621.00)
25.02	Regional CDCS Acceptance Test Participants	Approved	8/7/2008	\$0.00
26	Remove Requirement for Focus Groups	Approved	12/20/2004	(\$111,704.00)
27	Farebox Rotation	Approved	1/4/2005	\$74,967.00
28	Metro Gold Line Eastside Extension, Fare Equipment	Approved	7/25/2006	\$3,808,722.00
29	Stainless Steel Panels for TVM Alcoves	Approved	4/25/2005	\$45,521.00
30	Data Communication Cabling for Orange Line	Approved	6/10/2005	\$41,560.00
31	(Not Used)			
32	Additional Spare Part Quantities for Eastside Ext.	Approved	7/25/2005	\$15,480.00
33	Mifare Card Functionality on UFS	Approved	8/15/2005	\$33,105.00
34	Revisions to Project Schedule	Approved	10/26/2000	\$0.00
35	OCU Mount	Approved	11/15/2005	\$87,634.00
36	(Not Used)			
37	Deductive Change for Line 1.36	Approved	4/6/2007	(\$33,116.00)
38	Installation of Third TVM and Relocation of Two SAVs and Blue Line Willow Station	Approved	7/6/2006	\$10,084.00
39	Upgrade the CDCS System from IB SSA Disk Storage Subsystem to Fiber Disk	Approved	10/2/2006	\$20,000.00

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<b>Mod. No.</b>	<b>Description</b>	<b>Status (approved or pending)</b>	<b>Date</b>	<b>Amount</b>
40	UFS Equipment for Expo Line	Approved	2/16/2007	\$5,197,204.00
41	(Not Used)			
42	(Not Used)			
43	HHV, PMOS and CPOS Interim Maintenance Deductive Change	Approved	2/16/2007	(\$162,628.00)
44	UFS Additional Quantities for Contracted Services	Approved	2/16/2007	\$2,499,916.00
45	Replace Go-Cards with Mi-Fare Cards	Approved	2/16/2008	(\$1,157,850.00)
46	Relocation of Data Probes and Receive Vaults at Division 7	Approved	4/9/2007	\$29,787.00
47	Revisions to US Base and Regional Manuals for Release to ACS	Approved	4/23/2007	\$46,000.00
48	Expo Line, Pico Station Infrastructure	Approved	7/18/2007	\$18,542.00
49	Relocation of UFS Lab Equipment	Approved	6/2/2008	\$106,905.00
50	Expo 7 <sup>th</sup> and Metro Additional Infrastructure	Approved	8/30/2007	\$81,719.00
50.01	Expo 7 <sup>th</sup> and Metro Infrastructure Deductive change	Approved	8/30/2007	(\$30,173.00)
51	Handheld Validator Holster	Approved	10/16/2007	\$6,184.00
52	Installation and Testing of Farebox at Transportation Concepts	Approved	3/6/2008	\$16,091.00
53	Relocate OCUs on Ford Cutaways and MST Buses at Contracted Services	Approved	5/14/2008	\$79,170.00
54	Installation of one Farebox and Testing for two Fareboxes at Contracted Services	Approved	5/27/2008	\$18,842.00
55	UFS Quantity Adjustments	Approved	10/9/2008	\$0.00
56	Contracted Bus Service Equipment Change	Approved	12/3/2008	\$36,704.00

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<b>Mod. No.</b>	<b>Description</b>	<b>Status (approved or pending)</b>	<b>Date</b>	<b>Amount</b>
57	Installation and Acceptance Testing of One Farebox at First Transit	Approved	12/19/2008	\$3,040.00
58	Provide UFS Equipment for Expo from Culver City to Venice/Robertson Aerial Station	Approved	3/4/2009	\$304,246.00
59	Regional CDCS Electrical Power Reconfiguration	Approved	2/9/2009	\$17,186.00
60	Rail Equipment Warranty and Bus Equipment Warranty	Approved	2/19/2009	\$0.00
61	TAP Enables Turnstile Fare Gates for Rail Stations	Approved	4/9/2009	\$10,000,000.00
62	Provide UFS Equipment for Expo Truesdale Station	Approved	3/4/2009	\$284,167.00
63	System Support Services	Approved	6/8/2010	\$33,988,558.00
63.01	SSS, Additional Costs	Approved	3/22/2013	\$677,631.00
63.02	SSS, Orange Line Credits	Approved	3/22/2013	(\$58,243.00)
63.03	SSS, One-year Extension	Approved	3/22/2013	\$8,148,263.00
64	\$5 Dollar Bill handling Unit for Fareboxes and TVMs	Approved	7/27/2009	\$304,658.00
65	Installation of Additional SAVs for Eastside Extension	Approved	1/4/2010	\$34,077.00
66	Relocation of Wing Gate at MRL Wilshire/Normandie Station	Approved	2/2/2010	\$18,905.00
67	(Not Used)	Approved		
68	UFS Equipment for Orange Line Extension	Approved	11/2/2010	\$2,749,476.00
68.01	Transfer Maintenance Dollars to 63.01	Approved	1/25/2013	(\$677,631.00)
68.02	UFS Equipment for Orange Line Extension, Credits	Approved	3/22/2013	(\$10,982.00)
69	Additional TVM at Aviation Greenline Station	Approved	4/2/2010	\$13,031.00
70	TAP Card Physical Testing	Approved	4/28/2010	\$41,844.00
70.01	TAP Card Physical Testing	Approved	3/22/2013	\$12,658.00
71	Concession Light Functionality	Approved	6/30/2010	\$96,726.00

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72	(Not Used)	Approved		
73	API Test Server Imaging	Approved	9/9/2010	\$45,024.00
74	Contract Services Relocation	Approved	11/1/2010	\$33,854.00
75	Limited Function Sales Office Terminals, Increase Quantity	Approved	2/15/2011	\$993,795.00
76	CISCO ASA Acquisition and Implementation for API Test and Production Servers	Approved	2/28/2011	\$59,209.00
77	Cubic LU Key Installation	Approved	3/3/2011	\$69,097.00
78	Updates Farebox Configuration to Support ARUB Wireless Security Data Transfer	Approved	3/3/2011	\$40,204.00
79	Relocation of UFS Test Lab Equipment	Approved	4/25/2011	\$80,911.00
80	7 Byte UID Support	Approved	4/20/2011	\$362,069.00
81	Fare Gate Fencing Installation Modifications, North Hollywood and Avalon Stations	Approved	4/25/2011	\$24,004.00
82	Additional TVM at Hollywood/Western Redline Station	Approved	4/25/2011	\$15,531.00
83	Purchase Drive Control Unit Light Validators DCU-LV	Approved	4/25/2011	\$363,492.00
84	Install TVMs at Three Metro customer Centers	Approved	6/6/2011	\$386,680.00
85	Cubic Modification to Gate Software/Locking Commands	Approved	6/29/2011	\$111,188.00
86	UFS Equipment for Expo Phase I Farmdale Station	Approved	7/26/2011	\$415,184.00
87	Relocation of TVMs at the Green Line Long Beach Station	Approved	8/25/2011	\$15,909.00
88	Mobile Validator Non- Recurring Engineering System Development	Approved	10/12/2011	\$611,677.00

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89	Expo Pico Station North Platform TVM/SAV Work	Approved	3/5/2012	\$17,592.00
90	Deletion of Contract Line Items 1.03, 1.04 & 1.33	Approved	2/15/2012	(\$20,622.00)
91	Orange Line Installation of 12 Metro Provided SAVs	Approved	2/15/2012	\$34,483.00
92	(Not Used)			
93	(Not Used)			
94	System Support Services, Six Year Extension	Approved	7/1/2013	\$55,000,000.00
94.01	(Not Used)			
94.02	System Support Services for Expo II and Foothill Extension	Approved	3/2/2015	\$1,152,749.00
94.03	Maintenance Support Services for 54 TVMs	Approved	4/14/2016	\$838,211.00
95	UFS Equipment Storage Costs	Approved	6/13/2012	\$4,129.00
96	Faregating, Three Additional Swing Gates	Approved	2/4/2013	\$44,611.00
97	Green Line Faregating Additional Fire Key Switches at Vermont Station	Approved	4/1/2013	\$8,392.00
98	Emergency Swing Gate Upgrades	Approved	4/15/2013	\$252,145.00
99	Removal of TVM from Wilshire/LaBrea Customer Center	Approved	10/8/2013	\$4,883.00
100	Supplying and Supporting a Turnkey Mobile Validator System	Approved	7/1/2013	\$2,996,113.00
101	Bus Division Vault Relocation	Approved	8/1/2013	\$995,940.00
102	Install One TVM at East Portal Customer Service Center and One at Culver City Station	Approved	10/8/2013	\$252,905.00
103	El Monte Bus Facility TVMs	Approved	10/15/2013	\$474,753.00

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<b>Mod. No.</b>	<b>Description</b>	<b>Status (approved or pending)</b>	<b>Date</b>	<b>Amount</b>
104	Fare Gate Consoles for Expo 2, Colorado/4 <sup>th</sup> Street Station	Approved	5/26/2014	\$380,000.00
105	TVM and SAV Relocations	Approved	12/16/2013	\$1,456,632.00
106	Modification to Nextfare to Allow for Segregation of Facility Specific Data	Approved	1/29/2014	\$647,869.00
107	Passback Modification	Approved	2/18/2014	\$70,301.00
108	UFS PCI Compliance	Approved	10/23/2014	\$9,015,319.00
109	Service Provider Support	Approved	6/14/2014	\$66,777.00
110	Autoload Segregation by Muni	Approved	6/30/2014	\$111,707.00
111	SAV Three Distinct Tones	Approved	8/4/2014	\$46,634.00
112	Modify TAP Vending Machine to Improve Purchases	Approved	8/4/2014	\$250,000.00
113	ADA TVM Upgrades for CN No. 162 and 150 Replacement TVMs	Approved	8/5/2014	\$416,815.00
114 A	UFS Equipment for Gold Line Foothill Extension	Approved	8/25/2014	\$1,878,756.00
114 B	UFS Equipment for Expo Phase	Approved	8/25/2014	\$3,783,200.00
115	FBX External Interface Spec Changes	Approved	8/19/2014	\$20,488.00
116	Willowbrook Station Blue Line SAVs	Approved	11/19/2014	\$62,882.00
117	TAP-In, TAP-In, Transfer Gate	Approved	11/19/2014	\$88,598.00
118	Virtual Gate Arrangement of SAVs at Gold Line Union Station Entrance	Approved	11/19/2014	\$84,964.00
119	Conversion of Expo 1 Aerial Stations to Fare Gates	Approved	3/2/2015	\$3,077,952.00
120	Change in Service Level Agreement for TVM & GC Network Additions at No Cost	Approved	3/2/2015	\$0.00
121	Emergency Swing Gate External Alarm Mode	Approved	11/19/2014	\$0.00

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122	Installation of Colorado & 4 <sup>th</sup> Faregates & ESGs	Approved	3/2/2015	\$163,143.00
123	OCDC Replacement Equipment Software and Installation	Approved	5/12/2015	\$681,068.00
124	Expo One Claim No. 1 Settlement	Approved	5/26/2015	\$19,648.00
125	UFS Global Network, Change for Credit/Debit Processing at TVM	Approved	5/12/2015	\$52,735.00
126	Metrolink Integration Support	Approved	5/12/2015	\$56,073.00
127	Metro Network Assistance	Approved	5/12/2015	\$48,758.00
128	Division 13 Bus Operations TVMs	Approved	5/12/2015	\$99,401.00
129	Fare Equipment Changes at MRL North Hollywood Station	Approved	5/12/2015	\$577,401.00
130	Installation of Additional TVM at MRL Civic Center Station North Entrance	Approved	7/15/2015	\$21,593.00
131	Relocate One TVM From Hawthorne to Hollywood	Approved	9/2/2015	\$31,983.00
132	Service Provider Support – Deductive Change (Mod 109)	Approved	6/13/2015	(\$66,777.00)
133	Additional Emergency Swing Gate for Expo 2	Approved	6/3/2015	\$10,970.00
134	Metrolink Support for LU Encoding	Approved	10/7/2015	\$13,666.00
135	Emergency Swing Gate Hinge Post Substitution at Expo 2 Bundy Station – No Cost Change	Approved	10/21/2015	\$0.00
136	Relocation of TVMs at MGL Artesia Station	Pending		\$0.00
137	(Not Used)			
138	Vertiba Support (Salesforce – CRM)	Approved	8/20/2015	\$9,671.00
139	Regional Inter Agency Transfer Policy Change	Approved	1/21/2015	\$435,000.00



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139.01	Regional Inter Agency Transfer (IAT) Policy Change	Approved	7/15/2016	\$480,000.00
140	54 TVMs, purchase and insctall	Approved	4/14/2016	\$5,194,834.00
141	(Not Used)			
142	Network, back office station configuration and IAT support	Approved	4/25/2017	\$14,578.00
143	Reduction in monthly PM services	Approved	5/8/2017	(\$404,550.00)
144	20 BMV Install Kits	Approved	5/8/2017	\$10,310.00
145	Sales, Use, Activate, Initialize, and read transactions into Nextfare	Approved	5/25/2017	\$0.00
146	TVM Screen Flow Phase 2	Approved	6/30/2017	\$475,000.00
147	Revisions to Mod 140/CN 185.03 TVM Deployment Scope of Work	Approved	8/28/2017	\$0.00
148	405 BMVs and 480 Install Kits	Approved	11/20/2017	\$990,059.00
149	UFS Equipment for Crenshaw/LAX	Approved	12/1/2017	\$5,920,997.00
150	CPA Change to Include Terminal ID	Approved	10/18/2017	\$45,487.00
151	UFS Equipment for Regional Connector	Approved	12/1/2017	\$3,316,556.00
151.01	Revisions to CN/Mod for Regional Connector Claim	Approved	3/28/2022	\$42,148.00
151.02	Storage Period Adjustment for Regional Connector Project (No-Cost)	Approved	2/7/2023	-
151.03	Not Used	-	-	-
151.04	Additional Cost for out-of-scope work – Regional Connector Project	Approved	3/28/2023	\$19,523.79
152	TAP System Patching	Approved	4/4/2018	\$165,337.00
153	Network Back Office Configuration	Approved	4/12/2018	\$37,222.00
154	TAP System Wide Upgrades	Approved	6/28/2018	\$22,104,750.00

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155	TAP System Support Services	Approved	4/25/2019	\$68,220,642.00
155.01	Maintenance of CLAX/Regional Connector	Approved	9/22/2022	\$1,054,539.00
<b>155.02</b>	<b>TAP 2.0 System Maintenance Support Services</b>	<b>Pending</b>	<b>Pending</b>	<b>\$78,883,737.00</b>
156	Latitude/Longitude to A102 Reports	Approved	6/29/2018	\$14,994.00
157	Willowbrook/Rosa Parks Station Improvements	Approved	10/25/2018	\$2,622,560.00
158	Net Backup DPOO License & Support	Approved	6/7/2019	\$55,281.00
159	Procure Additional BMVs	Approved	6/27/2019	\$434,680.00
160	Q-Radar License Renewal	Approved	5/14/2020	\$53,647.00
161	Additional ITS Network Equipment/Regional Connector Project	Approved	7/23/2021	\$57,860.00
162	Additional ITS Network Equipment/CLAX Station	Approved	7/23/2021	\$124,591.00
163/163.01	UFS Equipment for Purple Line Extension, Phase 1 Project	Approved	10/1/2021	\$4,038,756.00
164	Fare Capping Project	Approved	10/22/2021	\$5,662,667.00
165	Replacement of BMVs for All Door Boarding	Approved	2/24/2022	\$9,545,440.00
165.01	Bus Mobile Validators (BMVs) for TAP Municipal Operators & Micro Transit services	Approved	7/27/2023	\$4,032,850.00
166	LIFE Fare Capping for Regular Cards	Approved	4/6/2022	\$149,888.00
168	Non-RMP Changes & Promo Card Enhancements	Approved	6/23/2022	\$387,000.00
169	QRadar License Renewal	Approved	6/30/2022	\$90,055.00
170	UFS Equipment for AMC/96 <sup>th</sup> St Station	Approved	9/20/2022	\$3,660,472.00
171	Fare Capping Phased Approach	Approved	2/14/2023	\$274,940.00
172	Rolling Weekly (7-Day) Pass	Approved	3/8/2023	\$1,255,979.00

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173	TAP Core Server & TVM Upgrade Project	Approved	6/22/2023	\$12,364,519.00
174	TAP System Enhancements	Approved	6/27/2023	\$481,116.00
175	UFS Equipment for PLE/Gold Line /WRP	Approved	3/28/2024	\$10,394,406.00
<b>176</b>	<b>TAP 2.0 System Upgrade</b>	<b>Pending</b>	<b>Pending</b>	<b>\$66,423,946.00</b>
	<b>Modification Total:</b>			<b>\$478,883,013.79</b>
	<b>Original Contract:</b>		<b>2/28/2002</b>	<b>\$84,003,444.00</b>
	<b>Total:</b>			<b>\$562,886,457.79</b>