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## **CONTRACT MODIFICATION No. 01**

SFMTA Contract No. 1266-2, ATCS Implementation

Consultant:

Thales Transport & Security, Inc.

5500 Corporate Drive, Suite 500

Pittsburgh, PA 15237

## Contract Modification No. 01 - Early Re-Assignment of ATCS Implementation Work

1. Summary and Purpose. The Parties execute this Contract Modification No. 1 to amend Contract No. 1266-2 to: (a) affirm the early reassignment of this Contract from Tutor Perini Corporation (TPC) to the SFMTA; (b) to establish a contract value for remaining re-assigned ATCS Implementation Work; and. (c) to memorialize agreement of the parties that potential cost and time issues pre-dating and unrelated to the early reassignment will be dealt with in a separate, future contract modification(s).

## 2. Background.

- a. Contract 1266-2 ("ATCS Implementation Contract") between the SFMTA and Thales establishes the rights and obligations of the parties for the design, implementation, installation oversight, and testing of the ATCS for the Central Subway ("ATCS Implementation Work").
- b. The SFMTA awarded Contract 1300 to TPC in May 2013 to construct the Central Subway stations, trackway and systems. Contract 1266-2 provided that the SFMTA would assign Contract 1266-2 to TPC for Thales to perform ATCS Implementation Work as a subcontractor to TPC. On April 8, 2014, the SFMTA assigned Contract No. 1266-2 to TPC for Thales to commence performance of its ATCS Implementation Work as a subcontractor to TPC. Contract 1300 and Contract 1266-2 further provided that TPC would re-assign Contract 1266-2 back to the SFMTA at Final Acceptance of Contract 1300 or upon commencement of Revenue Service, and thereafter Thales would fulfill its warranty obligations directly for the SFMTA.
- c. Disagreements arose between TPC and Thales regarding ATCS design, schedule and coordination. To mitigate any potential impact or delay to the Project caused by the disagreements, the SFMTA notified TPC that it would exercise its right under Contract 1300 to implement a partial termination for convenience of Thales' ATCS design, system testing and equipment procurement, so that Thales would no longer be a subcontractor to TPC, but would perform ATCS work directly for the SFMTA. Construction-related ATCS Work to be performed by TPC was not terminated and remains under Contract No. 1300. This action effected an early reassignment of Contract 1266-2 from TPC back to the SFMTA. In a letter dated January 31, 2019, Thales confirmed it had no objection to that early reassignment of Contract 1266-2.
- d. On February 28, 2019, the SFMTA certified Contract Modification No. 093 to Contract No. 1300 effectuating the termination for convenience of ATCS Implementation Work under Contract No. 1266-2. This Contract Modification memorializes and confirms that reassignment of Contract 1266-2, which will allow the SFMTA to create an administrative account for payment to Thales for the services it has performed and will perform under the reassigned Contract 1266-2.

## 3. Contract 1266-2 is amended as set out below.

- a. Reassignment of Contract. Section 6.12 is deleted and replaced in its entirety as follows:
  - 6.12 Reassignment of Contract to City: By Contract Modification 93 to the Construction Contract (Contract 1300, Construction of Central Subway Stations, Trackway and System) with Tutor Perini Corporation, dated February 28, 2019, the SFMTA partially terminated ATCS Work under Contract 1300, and directed that Contract 1266-2 be reassigned to the SFMTA, and that the Work Thales shall perform under Contract 1266-2 be provided directly to the SFMTA. Thales







In Witness Whereof, the parties have executed this Modification in San Francisco, California as of this day 30 per 2019.

THALES TRANSIT & SECURITY, INC.

By:

**Duncan Lewis** 

CEO

Thales Transport & Security, Inc.

CITY AND COUNTY OF SAN FRANCISCO

By:

Tom Maguire

Interim Director of Transportation

San Francisco Municipal Transportation Agency

**APPROVED AS TO FORM:** 

By:

Robert K. Stone
Deputy City Attorney

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		SUBTOTALS	SOV by elements	Percent Complete	Paid to Date	Remaining Amoun
1	NTP	495,774	495,774	100%	495,774	
2	Initial Submittals	778,482	778,482	100%	778,482	
	THUR GOVINGE	170,402	110,402	10070	710,402	
3 (	Preliminary Design	2,075,952	2,075,952	100%	2,075,952	
$\dashv$		1				
4	Intermediate Design	3,113,928			2,531,771	582,
4.1	AZLM Test results		896,983	85%	762,436	
	Interface Control Document	ļ	643,943 129,747	85% 68%	547,352 88,228	- 17
	Safety Related Design Assumptions  Description of Safety Assurance Concepts and Program		247,411	85%	210,299	
	Description of overall ATCS System		129,747	68%	88,228	
	Standards used to design Vital ATCS Software		129,747	85%	110,285	
	Preliminary Hazard Analysis Intermediate Design Review Package		518,988 417,362	85% 68%	441,140 283,806	
7.0	Internediate Design (Concord ackage		3,113,928	0070	200,000	
$\Box$						
	Final Design Recommended Spare Parts List	2,594,940	129,747	68%	703,708 88,228	1,891,
	Testing and Startup Program Plan	<del> </del>	247,411	68%	168,239	
5.3	Standards used to design Class 1 Hardware		129,747	85%	110,285	
$\overline{}$	Fault Tree Analysis		518,988	0%	0	
	ATCS Reliability Analysis  Maintainability Analysis		247,762 247,762	68% 68%	168,478 168,478	
	Schematic Drawing of ATCS Room Equipment		518,988	0%	0	
5.8	Room Layout Drawings		403,796	0%	0	
5.9	Final Design Review Package		150,740 2,594,940	0%	0	
_			2,054,540			
	FAT Complete	2,366,271			0	2,366
$\rightarrow$	Release BOM for Procurements		389,173	0%	0	
	Test Lab Available Complete Flow Diagrams, Functional Block Diagrams	-	235,630 494,274	0% 0%	0	
	FMECA of Class 1 Hardware		494,274	0%	Ō	
6.5	FAT Test Results		752,919	0%	0	74
-			2,366,271			- 3.1
7	Hardware Procurement	2,912,783			468,391	2,444,
7.1	Rack Layout Drawings		235,630	0%	0	
	Equipment Arrangement Drawings		394,272	0%	0	
	Power Distribution Drawings and power Calculations Wire Routing Diagrams		394,274 389,173	68%	268,107 0	
	Equipment Plans and Installation Drawings		494,274	0%	0	
	Circuit Plans for all I/O functions		235,630	0%	0	
	Schematics of new Hardware Components Shop Drawings for all Equipment		298,271 235,630	0% 0%	0	
	Foundation, Grounding Arrangements		235,630	85%	200,285	
			2,912,783			
		0.405.404				0.405
_	Deliver Hardware Deliver Hardware	3,425,424	3,425,424	0%	0	3,425
<u> </u>	Solitor Halomaro		011201121			
	Installation, Software	2,580,868			0	
	Installation Procedures Preventative Maintenance Plan	,	448,444 212,067	0% 0%	0	2,580
	Guideway Correspondence Testing		270,073	0%	0	
9.4	PICO Test results		448,444	0%	0	
	Operating and Maintenance Manuals		212,067	0%	0	
	ATCS Reliability Demonstration Test Plan ATCS Maintainability Demonstration Test Plan	<del> </del>	132,067 157,195	0% 0%	0	
	Book of Plans for each Train Control Room		350,256	0%	0	
9.9	Book of Plans for each Central Control Equipment Room		350,256	0%	0	
$\dashv$			2,580,868			
10	Start up & Testing	2,220,059			0	2,220.
10.1	as built drawings for train control rooms		681,204	0%	0	
$\overline{}$	as built drawings for central control equipment room		681,204	0%	0	
10.3	SAT test reports		857,652 2,220,059	0%	0	
_11	Substantial Completion	1,235,686	2,220,000		0	1,235,
11.1	System integration Tests Completed		494,274	0%	0	
	System Integration test reports Draft		494,274	0% 0%	. 0	
11.3	SFMTA training completed		247,137 1,235,686	υ%	0	
12	Final Acceptance	988,549	1,200,000		0	988,
12.1	Final system integration test reports		494,274	0%	0	
12.2	Successful completion of reliability demonstration test plan		494,274 988,549	0%	0	
	Total Total	24,788,716	24,788,716	n/a	7,054,079	17,734,
					Contract 1266-1	-3,425,
	1266-1	3,425,424			CMOD 073	90,