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CMB Meeting Minutes #176

DATE:	July 08, 2014
MEETING DATE:	July 02, 2014
LOCATION:	821 Howard St, Main Conference Room
TIME:	3:00 PM
ATTENDEES:	J Funghi (JF), R. Redmond (RR), A. Clifford, (AC), M. Acosta (MA), M. Vilcheck,(MV), E. Stassevitch (ES), B. Ward (BW), L. Zurinaga (LZ),
COPIES TO:	Attendees: S. Farhangi (SF), M. Henry (MH), A. Hoe (AH), B. Lebovitz (BL)R. Nguyen (RN), M. Latch (ML), M. Kobler (MK), J. Wang (JW), K. Shah S. (KS), Tisell (ST), J. Xia (JX), V. Chow (VC), J. Park (JP), S. Jefferis (SJ), S. Espinal (SE), R. Hansen (RH), D. Kuehn (DK) File No. M544.1.5.0890
REFERENCE	Project No. M544.1, Contract No. 149 Task 1-8.02
SUBJECT:	Configuration Management Board Meeting # 176 – Rev. No. 0

RECORD OF MEETING (Italicized text indicates status update of open items)

ITEM #	DISCUSSION	ACTION BY DUE DATE
1-	M. Acosta presented a status update for PCC 006 - AT&T Ductbank Relocation – In addition to the original scope called for by AT&T, supplement work has been added and cost proposal received. MA indicated that the original scope called for by AT&T (which differed from the work called out on the contract documents) cost comparison and negotiations have been conducted successfully for and amount of \$225K . For the supplement work, both the engineer's estimate and the Contractor's proposal were unreasonable high, and MA recommends performing the work on a force account basis for an amount NTE \$400K. The CMB agreed with the negotiated costs and with proceeding with the supplemental work on force account basis (see attached), provided the RE receives written confirmation from AT&T of their agreement of the total cost to be reimbursed through the form B process.	
2-	A. Clifford presented the summary record of negotiations (RON) in support of the negotiated contract change settlement amount between the Contractor and SFMTA for Claim #3 (COR 085) SFWD Impacts at MOS North. The CMB agreed to proceed with a CMod to compensate the Contractor for a total of 11.5 days in standby cost associated with SFWD untimely completion of their work, asbestos abatement and SFWD changing the notified and agreed start date for Not to Exceed amount of \$71,633 AGREE – CMB	
3-	A. Clifford presented the summary record of negotiations (RON) in support of the negotiated contract change settlement amount between the Contractor and SFMTA for Claim #4 (COR 070) Jet Grout Quantity Overrun. The CMB agreed to proceed with a CMod to compensate the Contractor for jet grout volumes based on the bid item unit price of \$700/cubic yard for Not to Exceed amount of \$168,700 AGREE – CMB	







ITEM #	DISCUSSION	ACTION BY DUE DATE
 -4	CN1300 Trend Report for the week of 07/01/14 was reviewed, noting improvements made to the "remarks" column by the OE/RE in providing a status update to the trend.	

ACTION ITEMS

ITEM #	MTG DATE	MTG ACTION DATE	DESCRIPTION	BIC	DUE DATE	STATUS
8	07/24/13	07/24/13	1252 – Breakdown of Bid Item GE-3	AC/MLe	07/09/14	Ореп
2	08/14/13 ·	08/14/13	1252 – CMod #8 (PSI strength) – Statement of occurrence post meeting record of approval which overrode CM8 direction	AC/MLe	07/09/14	Open
2&3	08/28/13	08/28/13	1252 – COR 97 & 98 – gravel encountered action plan from Engineering of Record (DP1)	AC/MLe	07/09/14	Open
5	09/25/13	10/02/13	1300 - PCC CTS 0001 - Contractor Cost Proposal	MK	07/09/14	Open
2.	10/09/13	10/09/13	1252 – Design Clause - confirmation of existing contract language in CN 1252 and CN 1300 regarding existing conditions related to utilities	JW/AH	07/09/14	; Ореп
1	10/16/13	10/16/13	1252 – COR 102 - Determine if the Contractor received 1251 as built information before they began operations	AC/MLe	07/09/14	Open
1-	10/16/13	10/16/13	1252 - COR 102 - Graphic showing the location of the headwalls control line	AC/MLe	07/09/14	Open:
3	10/23/13	10/23/13	1252 – PCC 014 - Contractor Cost Proposal	JW/AC	07/09/14	Open
2	1,1/06/13	11/06/13	1252 - COR 017 – Notify utility of cost as Form B bill update under CN1250 or CN1251	AC/MLe	07/09/14	Open
2	11/13/13	11/13/13	1300 – Setup a meeting with DT to confirm the use to control traffic	vc ,	07/09/14	Орел .
NA	11/13/13	1/1/13/13	1252 – Confirm who is being billed for the use of PCO's at 5 th St.	AC/MLe	07/09/14	Open
2	11/20/13	11/20/13	1300 - PCC 00X - PGE Traffic Control - Utility verification letter	мк	07/09/14	Open
9	12/11/13	12/11/13	1252 - Trend Log Segment Measuring Frequency line item credit (1.3M)	AC/MLe	07/09/14	Open
2	01/08/14	01/08/14	1300 - PCC - Contractor Cost Proposal - Geoprobes	RR/ST	07/09/14	Open
4	01/08/14	01/08/14	1300 - PCC - Contractor Cost Proposal - Joint Trench Condults	мк	07/09/14	Open
4	01/15/14	01/15/14	1300 - CTS confirmation from PG&E of cost for concrete encasement of lines	мк	07/09/14	Open
1	07/02/14	Q7/02/14	1300 - STS PCC 006 AT&T Addl Vaults and Ductbank - written agreement of cost & reimbursement to CSP	MA	07/09/14	Ореп

Meeting adjourned at 4:10pm

These meeting minutes have been prepared by B. Ward and reviewed by E. Stassevitch, and are the preparer's interpretation of discussions that took place. If the reader's interpretation differs, please contact the author in writing within four (4) days of receipt of these minutes.

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[Date review completed]

Signed:

CMB Meeting - No. 176

[initials of preparer & reviewer] Date:



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Meeting Agenda

Project No. M544.1, Contract No. CS-149 Program/Construction Management Configuration Management Board (CMB) Meeting No. 176 July 02, 2014 3:00pm – 5:00pm Central Subway Project Office 821 Howard St. 2nd Floor Main Conference Room

Attendees:

John Funghi	Brad Lebovitz	Luis Zurinaga	
Albert Hoe	Roger Nguyen		
Mark Latch	Richard Redmond		
Eric Stassevitch	Beverly Ward		

- 1252 COR 085 (Claim #3) SFWD Impacts at MOS North Approval Negotiated Cost/NTE

 COR 070 (Claim #4) Jet Grout Quantity Overrun Approval Negotiated Cost/NTE
- 1300 PCC #6 AT&T Additional Vaults and Ductbank- Approval Cost/NTE (Previously discussed at CMB Mtg #149)
- 3. Trend Log –
- 4. Other Business –







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Meeting Attendance Sheet

Project No. M544.1, Contract No. 149 Program/Construction Management Configuration Management Board Special Meeting No. 176 July 02 2014 3:00 p.m. – 5:00 p.m. Central Subway Project Office 821 Howard, 2nd Floor Main Conference Room

Deliver Meeting Attendance Sheet with original signatures/initials to Document Control.							
NAME	AFFILIATION	PHONE	E-MAIL (for minutes)	INITIALS			
Please enter nam			ame is listed below. nail address if your name is not listed	below.			
Acosta, Mike	SFMTA	(415) 701-5282	Mike.Acosta@sfmta.com	m			
Chow, Vivian	SFMTA	(415) 701-5264	Vivian.chow@sfmta.com	d			
Clifford, Alex	CSP	(415) 243-0953	Alex.Clifford@sfmta.com	A			
Farhangi, Shahnam	SFMTA	(415) 554-0721	Shahnam.Farhangi@sfmta.com	0			
Funghi, John	SFMTA	(415) 701-4299	John.Funghi@sfmta.com	AS			
Haley, John	SFMTA		John.Haley@sfmta.com	1			
Henry, Melvyn	SFMTA	(415) 701-5719	Melvyn.Henry@sfmta.com				
Hoe, Albert	SFMTA	(415) 701-4289	Albert.Hoe@sfmta.com				
Jefferis, Scott	SFMTA	(415) 238-4679	Richard.Jefferis@sfmta.com				
Kelly, Jim	SFMTA		Jim:Kelly@sfmta.com				
Kobler, Mike	CSP	(415) 850-4750	Mike.kobler@sfmta.com				
Kuehn, David	STV/PMOC	(510) 464-8053	David.kuehn@stvinc.com				
Latch, Mark	CSP	(415) 701-5294	Mark.Latch@sfmta.com	-			
Lebovitz, Brad	STV/PMOC	(510) 464-8052	Bradley.lebovitz@stvinc.com				
Nguyen, Roger	SFMTA	(415) 701-4312	Roger.Nguyen@sfmta.com				

Municipal Transportation Agency

SFMTA





SJAITINI	E-MAIL (for minutes)	BHONE	NOITAIJIIAA	BMAN
00	Joon.Park@sfmta.com	2474-107 (314)	ATMAS	Park, Joon
RE	Richard.Redmond@sfmta.com Kartik.Shah@sfmta.com	7048-099 (214) 	SFMTA SFMTA	Shah, Katik Shah, Katik
Se .	Eric.Stassevitch@stmta.com	9747-102 (917)	CSP	Stassevitch, Eric
	moz.stmtz@llezit.evez	962-099 (917)	СЗЬ	Tisell, Steve
DI	Mark.Vilcheck@stmta.com	(412) 201-4293	СЗЬ	Vilcheck Mark
and	moo.etmts@pneW.eneL	7824-107 (314)	ATMJ2	enst ,gneW
(SF)	Beverly.Ward@stmts.com	1623-107 (314)	СЗЬ	Ward, Beverly
int	Luis.zurinaga@sfcta.org	9969-912 (917)	SFCTA	siud ,egeninuZ
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CMB Change No.: <u>CMB – 162</u> Initial Implementing Change Control Procedure No.:1252 – COR - 085

		G	ENERA	L		
Proposed Change Sponsor:		A. Cliffe	ord	Rec	ceived by CMB:	07/02/2014
Affected Disciplines:	Utility					(Date)
Impacts of Change					t To Exceed	
	\$71,300				• •/	
Contract(s) Directly Affe	cted by th	is Propo	sed Cha	nge:		
1250 1251 1252 1 2 3 3 (CP01) (CP02) (CP03)	1253 4 🔲 (CP04)	1254 5 🔲 (CP05)	1255 6 🔲 (CP06)	1256 7 🔲 (CP07)		
CONFIC	SURATIO	N MANA			RD APPROVAL	s
		Aare	e with th	S <i>ignatui</i> e D	<i>res</i> Isagree with the	Date
			hange		Change	
Program	Director:	X	-			7-2-14
Deputy Program	Manager:	<0)			
PM Project	Services:	1	201	$\hat{\Omega}$		
PM Project Con	struction:	11.	VIIS	/		7/2/14
SFMTA O & M	Manager:		1	-		1972
SFMTA Safety and	Security	(<u>_</u>			
SFC		- A	n	-		25al 14
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CHANGE ORDER REQUEST NUMBER 085

SFMTA Contract No. 1252

Contractor:

CENTRAL SUBWAY-TUNNELING-

Barnard Impregilo Healy JV 420 Fourth Street San Francisco, CA 94107

SUMMARY RECORD OF NEGOTIATIONS

SCOPE OF WORK:

The City agrees to compensate the Contractor for 11.5 days of standby costs for the equipment described below for standby incurred during the construction of the Moscone Station North headwall.

Description	Quantity	Description	Quantity
Linkbelt TCC750 75T Hydro Crane	1	Stein Diaphragm Grab Jaw	1
500 KW Generator	1	Koden Drilling Monitor	1
Liebherr 855 Crane	. 1	Mission Pump 3X4 R 40HP	3
15 Ton Carry Deck Crane	1	Mission Pump 5X4 R 50HP	<u> </u>
Diesel Light Tower	2	Mission Pump 6X8 R 150HP	1
185 CFM Air Compressor	1	Mission Pump 3X4 R 40HP	.1
18,000 Gallon Slurry Tank	7.	Dialog Lutz with NEMO	1
Auto Bentonite Mixer	1	KS 3000 Incl. Grab+Guide	1
Derrick Desander 300M3	1	Stein Extension 36"	1
Electrical 20" Container	1	Stein Diaphragm Wall Grab Body	1
100HP VFD Pump Control Panel	<u>1</u>	Stein Jaws'36"	1
STEIN Extension for SK 280-800	1	Screwsucker Pump	3
STEIN Diaphragm Wall Grab Body	-1	Water pump HP Gould 40 HP	1 .

REASON FOR CHANGE:

The Contractor (Barnard Impregilo Healy J.V) claims that their subcontractor (Condon-Johnson & Assoc, - Nicholson Construction Company J.V) incurred additional standby equipment costs during the construction of the Moscone Station North headwall as result of delays experienced during installation of a 24" water line by the San Francisco Water Department (SFWD). Per anali

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The SFMTA's original position was that coordination with the SFWD for the water line work was BIHJV's responsibility and that delays caused by the SFWD were not the responsibility of the SFMTA. Additionally, the SFMTA informed BIHJV that they had repeatedly changed their schedule for the water line work and had not provided the SFWD an adequate 3 week notice to instruct them to proceed with performing their portion of the work (tie-in and chlorination).

After re-consideration, the SFMTA determined that delays due to the SFWD were compensable under Specification 33 11 00 (Water Utility Distribution Piping) due to the fact that the SFWD did not perform their work in a timely manner which resulted in additional equipment standby costs for BIHJV and their subcontractor and delayed the completion of the tie-ins. off a minimum term 2 コーカーボー 注意設定)

- A. SFMTA Engineer's Estimate: \$80,977.73
- B. Contractor's Proposal: \$103,107.11, as contained in Claim No. 3 proposal dated 12/18/2013
- C. Negotiated Amount: \$71,309 -

\$71,653 **NEGOTIATION HISTORY:**

On March 26th, 2013, the Contractor sent letter no. 106 providing notice of additional costs due to SFWD delays.



Municipal Transportation Agency



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Summary Record of Negotiations Contract 1252

On April 2nd, 2013, the Contractor submitted Change Order Request (COR) No. 085, alleging that in accordance with the Contract the San Francisco Water Department (SFWD) is responsible for completing the waterline reroutes (chlorination and tie-in) in a specified duration and that the SFWD failed to complete this work in the contractual durations. As a result the Contractor claimed that the headwall construction operation had been incurring standby costs with a rough order of magnitude of \$345,600.

On April 18th, 2013, the City provided letter no. 151, response to BIHJV letter no. 106, denying additional compensation for the contractual tie-in work.

On April 21st, 2013, the Contractor sent letter no. 121 stating that they disagree with the SFMTA's determination stated in letter no. 151.

On May 21st, 2013, SFMTA sent letter no. 160 indicating that COR 085 does not represent a change to the contract work.

On June 12th, 2013, the Contractor sent letter no. 133 requesting that COR 085 be referred to the Issue Resolution Ladder (IRL) process as formalized in SFMTA Letter No. 036.

On September 26th, 2013, a "Level 2" IRL meeting was held. No offer was presented to BIHJV and the original determination stated in SFMTA Letter No. 160 remained accurate.

On October 9th, 2013, a "Level 3" IRL meeting was held. Neither SFMTA nor BIHJV agreed to the other party's position during negotiations and no settlement was reached.

On November 8th, 2013, the Contractor issued a Notice of Potential Claim for COR 085 (BIHJV Letter No. 183), as all parties involved were unable to reach an agreement.

On December 18th, 2013, the Contractor submitted Claim No. 03, in the amount of \$103,107 claiming that standby equipment costs as a result of SFWD delays constituted Additional Work.

On February 12th, 2014, the Contractor submitted a request for review of Claim No. 03 by the SFTMA Deputy Executive Director (BIHJV Letter No. 212).

On April 15th, 2014, at an executive level IRL meeting, John Funghi (SFMTA Program Director) and Jeff Higgins (BIH Chief Executive Officer) negotiated resolution of Contract Claim No. 3 and Contract Claim No. 04.

SFMTA and BIH agreed that 8 days standby were attributable to the SF Water Departments untimely completion of their work and changing crew requirements for excavation size. 2 days were attributable to the abatement of asbestos, and 1.5 days due to delay in the SF Water Department starting work initially. SFMTA and BIH agreed that 1.5 days of delay was attributable to BIH changing the notified and agreed start date for the SF Water Department.

Both parties conclude that the Total Negotiated Amount of \$71,300 to be a fair and reasonable compensation for this work.







Summary Record of Negotiations Contract 1252 Change Order Request No. 085 Page 3 of 3

By:

Alex Clifford SFMTA Construction Manager





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Equipment Description	CJA-NCC/BIH Cost Proposal					
	Total Delay Hours	Standby Rate	Total Amount			
Linkbelt TCC750 75T Hydro	104	\$ 70.14	\$ 7,294.56			
500 KW GENERATOR	104	\$ 16.27	\$ 1,692.08			
LIEBHERR 855	104	\$ 63.35	\$ 6,588.40			
15 TON CARRY DECK CRANE	104	\$ 8.74	\$ 908.96			
DIESEL LIGHT TOWER	104	\$ 0.82	\$ 85.28			
DIESEL LIGHT TOWER	104	\$ 0.82	\$ 85.28			
185CFM AIR COMPRESSOR	104	\$ 2.34	\$ 243.36			
18,000 GAL SLURRY TANK	104	\$ 1.88	\$ 195.52			
18,000 GAL SLURRY TANK	104	\$ 1.88	\$ 195.52			
18,000 GAL SLURRY TANK	104	\$ 1.88	\$ 195.52			
18,000 GAL SLURRY TANK	104	\$ 1.88	\$ 195.52			
18,000 GAL SLURRY TANK	104	\$ 1.88	\$ 195.52			
18,000 GAL SLURRY TANK	104	\$ 1.88	\$ 195.52			
18,000 GAL SLURRY TANK	104	\$ 1.88	\$ 195.52			
AUTO BENTONITE MIXER	104	\$ 10.05	\$ 1,045.20			
DERRICK DESANDER 300M3	104	\$ 218.75	\$ 22,750.00			
ELECTRIC 20' CONTAINER	104	\$ 4.63	\$ 481.52			
100HP VFD PUMP CONTROL PANEL MONTH	104	\$ 8.16	\$ 848.64			
STEIN EXT FOR SK 280-800	104	\$ 1.17	\$ 121.68			
STEIN DIAPHRAGM WALL GRAB BODY	104	\$ 12.84	\$ 1,335.36			
STEIN DIAPHRAGM GRAB JAW	104	\$ 5.13	\$ 533.52			
KODEN DRILLING MONITOR	104	\$ 13.37	\$ 1,390.48			
MISSION PUMP 3X4 R 40HP MONTH	104	\$ 24.47	\$ 2,544.88			
MISSION PUMP 3X4 R 40HP MONTH	104	\$ 24.47	\$ 2,544.88			
MISSION PUMP 3X4 R 40HP MONTH	104	\$ 24.47	\$ 2,544.88			
MISSION PUMP 5X4 R 50HP MONTH	104	\$ 24.47	\$ 2,544.88			
MISSION PUMP 6X8 R 150HP MONTH	104	\$ 24.47	\$ 2,544.88			
MISSION PUMP 3X4 R 40HP MONTH	104	\$ 24.47	\$ 2,544.88			
DIALOG LUTZ WITH NEMO	104	\$ 6.08	\$ 632.32			
KS 3000 INCLD GRAB+GUIDE	104	\$ 44.70	\$ 4,648.80			
STEIN EXTENSION 36"	104	\$ 1.13	\$ 117.52			
STEIN DIAPHRAGM WALL GRAB BODY	104	\$ 12.34	\$ 1,283.36			
STEIN JAWS 36"	104	\$ 4.93	\$ 512.72			
SCREWSUCKER PUMP MONTH	104	\$ 37.72	\$ 3,922.88			
SCREWSUCKER PUMP MONTH	104	\$ 37.72	\$ 3,922.88			
SCREWSUCKER PUMP MONTH	104	\$ 37.72	\$ 3,922.88			
WATER PUMP HP GOULD 40HP MONTH	104	\$ 24.47	\$ 2,544.88			
	3,848.00		\$ 83,543.65			

SFMTA Review						
Total Delay Hours	Standby Rate	Total Amount	SFMTA Notes			
104	\$ 70.14	\$ 7,294.56				
104	\$ 16.27	\$ 1,692.08				
104	\$ 63.35	\$ 6,588.40				
104	\$ 8.74	\$ 908.96				
104	\$ 0.82	\$ 85.28				
104	\$ 0.82	\$ 85.28				
104	\$ 2.34	\$ 243.36				
104	\$ 1.88	\$ 195.52				
104	\$ 1.88	\$ 195.52				
104	\$ 1.88	\$ 195.52				
104	\$ 1.88	\$ 195.52				
104	\$ 1.88	\$ 195.52				
104	\$ 1.88	\$ 195.52				
104	\$ 1.88	\$ 195.52				
104	\$ 10.05	\$ 1,045.20				
104	\$ 109.38	\$ 11,375.00	1			
104	\$ 4.63	\$ 481.52				
104	\$ 8.16	\$ 848.64				
104	\$ 1.17	\$ 121.68				
104	\$ 12.84	\$ 1,335.36	EX1			
104	\$ 5.13	\$ 533.52				
104	\$ 13.37	\$ 1,390.48				
104	\$ 24.47	\$ 2,544.88				
104	\$ 24.47	\$ 2,544.88				
104	\$ 24.47	\$ 2,544.88				
104	\$ 24.47	\$ 2,544.88				
104	\$ 24.47	\$ 2,544.88				
104	\$ 24.47	\$ 2,544.88				
104	\$ 6.08	\$ 632.32				
			EX2			
			EX3			
104	\$ 37.72	\$ 3,922.88				
104	\$ 37.72	\$ 3,922.88				
104	\$ 37.72	\$ 3,922.88				
104	\$ 24.47	\$ 2,544.88				
3,432.00		\$ 65,613.08				



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CJA-NCC Subtotal	\$ 83,543.65
CJA-NCC OH&P Markup (15%)	\$ 12,531.55
CJA-NCC Bond Markup (0.52%)	\$ 499.59
CJA-NCC Total Cost	\$ 96,574.79
BIH OH&P Markup (5%)	\$ 4,828.74
BIH Bond Markup (1.68%)	\$ 1,703.58
BIH Total Cost	\$ 103,107.11
(as contained in proposal)	-

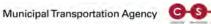
CJA-NCC Subtotal	\$	65,613.08
CJA-NCC OH&P Markup (15%)	\$	9,841.96
CJA-NCC Bond Markup (0.52%)	\$	392.37
CJA-NCC Total Cost	\$	75,847.41
BIH OH&P Markup (5%)	\$	3,792.37
BIH Bond Markup (1.68%)	\$	1,337.95
BIH Total Cost	ć	90 077 72
(as modified by SFMTA)	Ş	80,977.73

SFMTA Notes:

1: There is no approved standby rate for the DERRICK DESANDER 300M3 piece of equipment. CJA-NCC's proposal uses the active rate for this equipment. CJA-NCC submitted a 'Trial to Purchase Agreement' to backup the \$218.75/hour active cost approved by the SFMTA. The terms of this agreement state that the trial period expires after 90 days (dated September 28, 2012). The SFMTA therefore regards this equipment as owned by CJA-NCC and therefore subject to a delay factor less than 1.00. The 3-part desanding equipment consists of: a.) tank (Caltrans delay factor 0.60) b.) shaker/fluid seperator (Caltrans delay factor 0.44) and c.) water/mud cleaner (Caltrans delay factor 0.47). Since CJA-NCC has not provided the SFMTA with backup for a delay factor, the SFMTA proposes averaging the listed delay factor to determine a composite delay factor of 0.50.

EX1/2/3: During review it was noted that CJA-NCC had included costs for 3 sets of hydraulic excavators. Set #1: GSG9141, GSK8001, JSK9141 / Set #2: SBA8551 / Set #3: SKE91401, SKG70104, SKJ91401. The SFMTA surface inspector stated that CJA-NCC only had one set at MOS during the delay period in question. The SFMTA modified cost above has removed EX2 and EX3.





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CLAIM No. 03 Slurry Wall Standby Impacts at Moscone Due to SFWD



PREPARED BY:

Condon-Johnson Nicholson Joint Venture 420 Fourth Street San Francisco, CA 94107 Phone: (510) 868-8090 Fax: (510) 568-9316





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Narrative Summary

Claim Merit

Once the North Panel N-3 was completed by CJA/NCC on February 5th, the site was turned over to Synergy to prepare for the arrival of SFWD. Synergy completed the excavation of their work, including excavation of the trench and tie-in locations for the 12" and installation of the 12" pipe and pressure testing on Friday February 15th, effectively starting the clock for SFWD to work on the following work day, Tuesday February 19th. SFWD was timely in the 12" operation, completing the chlorination by February 22nd and completing the tie-in by March 4th, within their allotted 10 day window.

However, Synergy completed all their work for the 20" location on February 22nd, effectively starting the clock for SFWD to work on the following work day, Monday February 25th. They did not finish until March 27th which is 13 more days than the specifications.

Claim Amount

In accordance with ARTICLE 13 – CONTRACT AND GOVERNMENT CODE CLAIMS, SECTION 13.02, we submit a Contract Claim for additional compensation in the amount of **\$103,107.11**





List of documents relating to Contract Claim

Specifications SECTION 33 11 00

Drawings

WD 001 – WD 413

Correspondence

COR FORMS:

COR No. 85 (04/02/2013) COR No. 85 Revised (11/08/2013) **CS CN 1252 LETTERS:** Letter No. 151 Letter No. 160 **BIH LETTERS:** Letter No. 080 Letter No. 106 Letter No. 121 Letter No. 133 Letter No. 183 **CJA/NCC LETTERS:** SL-073 SL-078 SL-120

SUMMARY RECORD OF NEGOTIATION Dated 10/01/13 SUMMARY RECORD OF NEGOTIATION Dated 11/03/13

Schedules

See Attachment E.





Chronology of events and correspondence

- 01/17/2013: BIHJV sends letter No. 080; Notification that SFWD work is required to facilitate the waterlines.
- 01/22/2013: BIHJV setup a pre-construction meeting with SFMTA and SFWD.
- 03/20/2013: CJA/NCC sends letter No. SL-073; Notice of DSC for North Headwall– Standby impact due to SFWD.
- 03/20/2013: CJA/NCC sends letter No. SL-078; Notice of DSC for South Headwall– Standby impact due to SFWD.
- 03/26/2013: BIHJV sends letter No. 106; Notification of Additional Costs SFWD Impact at Moscone.
- 04/02/2013: BIHJV submits COR No. 085 to SFMTA.
- 04/18/2013: SFMTA sends letter No. 151, response to BIHJV letter 106; SFMTA denies providing additional compensation for the contractual tie-in work.
- 04/21/2013: BIHJV sends letter No. 121, response to SFMTA letter 151; BIHJV disagrees with the SFMTA's determination stated in its letter.
- 05/21/2013: SFMTA sends letter No. 160; SFMTA determines that Change Order Request No. 085 does not represent a change to the contract work.
- 06/12/2013: BIHJV sends letter No. 133, response to SFMTA letter 160; BIHJV proposes to meet with SFMTA project management team to initiate the issue resolution ladder process.
- 10/01/2013: SFMTA Summary Record of Negotiations for the IRL meeting was sent and no offer was presented to BIHJV. The original determination stated in SFMTA letter No. 160 remained accurate.
- 11/03/2013: SFMTA Summary Record of Negotiations for the IRL meeting was sent. No settlement was reached.
- 11/06/2013: CJA/NCC sends letter No. SL-120; Notice of potential claim.
- 11/08/2013: BIHJV submits revised version of COR No. 085 to SFMTA.
- 11/08/2013: BIHJV sends letter No. 183; Notice of potential claim.





Analysis of Contract Claim merit

- During the construction of Moscone Station North Headwall (approximately STA 150+00), BIHJV's subcontractor, CJA-NCC, was impacted by the San Francisco Water Department (SFWD).
- In accordance with Specification Section 33.11.00, BIHJV provided a detailed schedule illustrating the preceding utility activities at Moscone and a written notification to SFWD 3 weeks prior to SFWD's future work. In addition to this, BIHJV had made extensive efforts to coordinate with SFWD including, but not limited to, arranging and attending several preconstruction meetings, on-going coordination efforts with SFWD field inspectors, and expedited procurement of additional fittings requested by SFWD.
- The headwall construction sequence required the 12" and 20" low pressure waterlines to be rerouted prior to completing the headwalls. The contract specifications require SFWD water tie-in and chlorination work to be completed in a specified duration, assuming the Contractor coordinated the available work with SFWD.

Pursuant to Specification Section 33 11 00-1.03.D, BIHJV was to allow for the following amount of time for SFWD to perform their scope of work:

- 1. Making connection to an existing main: 5 working days
- 2. Chlorination including laboratory results: 5 working days
- SFWD did not complete its work in the contract specified durations. As a result, CJA-NCC incurred standby equipment costs as headwall construction equipment was forced to remain idle, on standby, for a period of time longer than that defined in the contact specifications while SFWD completed its work.
- Although this work did not affect the critical path of the project, BIHJV's subcontractor, CJA-NCC incurred additional costs as a result of the SFWD delays. Cost impacts to slurry wall activities were equal to a total of 13 days of standby equipment costs.





Analysis of Contract Claim cost



BARNARD IMPREGILO HEALY JOINT VENTURE

420 Fourth Street San Francisco, CA 94107, PH (415) 546-0799, FX (415) 546-3822 CN-1252: Third Street Lightrail Program Phase 2 - Central Subway Project

COR No. 085: MOS North Headwall - SFWD Impacts

Conflict - LS Summary

Labor	\$0.00
Labor Markup at Specified 15%	\$0.00
Materials	\$0.00
Materials Markup at Specified 15%	\$0.00
Equipment	\$0.00
Equipment Markup at Specified 15%	\$0.00
Other Items And Expenditures	\$0.00
Other Items And Expenditures Markup at Specified 15%	\$0.00
Subcontractors (CJA-NCC)	\$96,574.79
Contractors Markup at Specified 5%	\$4,828.74
Total Project Costs	\$101,403.53
HJV Payment & Performance Bonds & Builder's Risk Insurance (1.68%)	\$1,703.58
Total Amount	\$103,107.11

Contract No.: 1252 JOB # 21134





Condon-Johnson & Associates, Inc. - Nicholson Construction Company Joint Venture

(CJA-NCC JV)

Slurry Wall Standby Impacts at MOS Due to SFWD

Contract Title: Third Street Light Rail Program, Phase 2-Central Subway Tunneling PCO #: 041 Description: Below is the daily standby cost for the slurry wall equipment. 10/08/13

SUMMARY OF COSTS

ITEM	DESCRIPTION		AMOUNT		
	1. D Wall Standby Impacts at MOS due to SFWD	Direct Labor (Wages)	\$	-	
		Direct Labor (Burden)	\$	-	
	13 Days Impacted, \$7,428.83/Day	13 Days Impacted, \$7,428.83/Day Equipment			
		Material/Other	\$	-	
	SUBTOTAL		\$	83,543.65	
	Markup (15.00 % of SUBTOTAL)	\$	12,531.55		
	SUBTOTAL	\$	96,075.20		
	Bond (0.52 %)	\$	499.59		
	TOTAL		\$	96,574.79	

Remarks: (See calculation of costs on enclosed spreadsheets)

Third Street Light Rail Program, Phase 2-Central Subway Tunneling JOB # 21134

1. D Wall Standby Impacts at MOS due to SFWD

PCO #: 041

EQUIPMENT COST





Condon-Johnson & Associates, Inc. - Nicholson Construction Company Joint Venture

(CJA-NCC JV)

E & OIT ME												
TAG	Date		Day 1	Day 2	Day 3	Day 4			Total	Unit	Standby	Total
	Work Authorization								hr	Rate	Rate	Amount
	Description											
a.	Equipment Cost											
7155	Linkbelt TCC750 75T Hydro	ST	104.00						104.00	\$ -	\$ 70.14	\$ 7,294.51
21134-AA	500 KW GENERATOR	ST	104.00						104.00	\$ -	\$ 16.27	\$ 1,691.98
21134-AC	LIEBHERR 855	ST	104.00						104.00	\$ -	\$ 63.35	\$ 6,588.19
21134-AD	15 TON CARRY DECK CRANE	ST	104.00						104.00	\$ -	\$ 8.74	\$ 908.67
21134-AH	DIESEL LIGHT TOWER	ST	104.00						104.00	\$-	\$ 0.82	\$ 84.86
21134-AK	DIESEL LIGHT TOWER	ST	104.00						104.00	\$-	\$ 0.82	\$ 84.86
21134-AO	185CFM AIR COMPRESSOR	ST	104.00						104.00	\$-	\$ 2.34	\$ 242.87
A29160T	18,000 GAL SLURRY TANK	ST	104.00						104.00	\$-	\$ 1.88	\$ 195.10
A29220T	18,000 GAL SLURRY TANK	ST	104.00						104.00	\$-	\$ 1.88	\$ 195.10
A29250T	18,000 GAL SLURRY TANK	ST	104.00						104.00	\$-	\$ 1.88	\$ 195.10
A32350T	18,000 GAL SLURRY TANK	ST	104.00						104.00	\$-	\$ 1.88	\$ 195.10
A35250T	18,000 GAL SLURRY TANK	ST	104.00						104.00	\$-	\$ 1.88	\$ 195.10
A60310T	18,000 GAL SLURRY TANK	ST	104.00						104.00	\$-	\$ 1.88	\$ 195.10
A60320T	18,000 GAL SLURRY TANK	ST	104.00						104.00	\$-	\$ 1.88	\$ 195.10
ABM30001	AUTO BENTONITE MIXER	ST	104.00						104.00	\$-	\$ 10.05	\$ 1,045.35
DBD3002	DERRICK DESANDER 300M3	ST	104.00						104.00	\$-	\$ 218.75	\$ 22,750.00
ECB2001	ELECTRIC 20' CONTAINER	ST	104.00						104.00	\$-	\$ 4.63	\$ 481.75
ECP1007	100HP VFD PUMP CONTROL PANEL MONTH	ST	104.00						104.00	\$-	\$ 8.16	\$ 848.23
GSG9141	STEIN EXT FOR SK 280-800	ST	104.00						104.00	\$-	\$ 1.17	\$ 121.68
GSK8001	STEIN DIAPHRAGM WALL GRAB BODY	ST	104.00						104.00	\$-	\$ 12.84	\$ 1,335.34
JSK9141	STEIN DIAPHRAGM GRAB JAW	ST	104.00						104.00	\$-	\$ 5.13	\$ 533.39
KDM01	KODEN DRILLING MONITOR	ST	104.00						104.00	\$-	\$ 13.37	\$ 1,390.14
MP4313	MISSION PUMP 3X4 R 40HP MONTH	ST	104.00						104.00	\$-	\$ 24.47	\$ 2,544.58
MP4316	MISSION PUMP 3X4 R 40HP MONTH	ST	104.00						104.00	\$-	\$ 24.47	\$ 2,544.58
MP4317	MISSION PUMP 3X4 R 40HP MONTH	ST	104.00						104.00	\$-	\$ 24.47	\$ 2,544.58
MP543	MISSION PUMP 5X4 R 50HP MONTH	ST	104.00						104.00	\$-	\$ 24.47	\$ 2,544.82
MP6805	MISSION PUMP 6X8 R 150HP MONTH	ST	104.00						104.00	\$-	\$ 24.47	\$ 2,544.79
MP861	MISSION PUMP 3X4 R 40HP MONTH	ST	104.00						104.00	\$-	\$ 24.47	\$ 2,544.58
QCD45004	DIALOG LUTZ WITH NEMO	ST	104.00						104.00	\$-	\$ 6.08	\$ 632.30
SBA8551	KS 3000 INCLD GRAB+GUIDE	ST	104.00						104.00	\$-	\$ 44.70	\$ 4,648.72
SKE91401	STEIN EXTENSION 36"	ST	104.00						104.00	\$ -	\$ 1.13	\$ 117.28
SKG70104	STEIN DIAPHRAGM WALL GRAB BODY	ST	104.00						104.00	\$-	\$ 12.34	\$ 1,283.36
SKJ91401	STEIN JAWS 36"	ST	104.00						104.00	\$ -	\$ 4.93	\$ 512.60
SSP20201	SCREWSUCKER PUMP MONTH	ST	104.00						104.00	\$ -	\$ 37.72	\$ 3,923.04
SSP20204	SCREWSUCKER PUMP MONTH	ST	104.00						104.00	\$-	\$ 37.72	\$ 3,923.04
SSP20205	SCREWSUCKER PUMP MONTH	ST	104.00						104.00	\$ -	\$ 37.72	\$ 3,923.04
WPG0001	WATER PUMP HP GOULD 40HP MONTH	ST	104.00						104.00	\$ -	\$ 24.47	\$ 2,544.83
_	Subtotal		3,848.00	-	-	-	-	-	3,848.00			\$ 83,543.65

February 2013	y 2013					
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday I RANEL N. 3 COLORED	Saturday 2 Groundhog Day
5	4	5 N-3 GUIDEWALL DEMO COMPLETE (20445)	e e e e e e e e e e e e e e e e e e e	7 EXCAVATE TIE4 NS N COMPLETE (2DAYS)	7 8 EXCAVATE TIGINS N PANEL 3-3 COMPLETE COMPLETE (2DNYS) EXERDATE 424	6
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17	18 Presidents' Day	19 D * 10 OAY CLOCK	20 2) EXCANATE FOR 201	213	22 4) 22 4) FINISH CHICENANTE 12" (4DNY S) 12" (4DNY S) 12" (4DNY S) 12" (2DNY S)	23
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	# TIE IN. COMPLETE		PRINT DRY			
31 Easter						



Connecting people. Connecting communities.

CMB Change No.: <u>CMB – 163</u> Initial Implementing Change Control Procedure No.:1252 – COR - 070

		(GENERA			
Proposed Change Sponsor:		A. Cliff	ord	Rec	ceived by CMB:	07/02/2014
Affected Disciplines:	Excavati	ion and	Support			(Date)
			oupport			
Impacts of Change	LB Jet G	Grout Qu	antity Ov	errun		
	Claim 04 \$168,700		070) Am	ount Not	t To Exceed	
Contract(s) Directly Affe	cted by thi	is Propo	sed Cha	inge:		
1250 1251 1252	1253	1254	1255	1256		
	4	5	6	7		
(CP01) (CP02) (CP03)		(CP05)				2
CONTR				Signatur		,
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SFMTA O & M I	Manager:	0.0				11
SFMTA Safety and	Security	\subset	2			
SFC		\nearrow	to			2 July 14
		$\int C$	omment	s		7



Connecting people. Connecting communities.

CHANGE ORDER REQUEST NUMBER 070

21.25 SFMTA Contract No. 1252 **CENTRAL SUBWAY TUNNELING**

Contractor: NUAL. 1.2 Barnard Impregilo Healy JV 420 Fourth Street San Francisco, CA 94107

Williams Harrison Barrow

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SUMMARY RECORD OF NEGOTIATIONS inge som fördet målans beföreter i för fram socie at benört, stjärs socie socie Fra socie affreksing i hander sokadet socie i socie socie socie at beföre socie.

SCOPE OF WORK:

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1.0.27

The City agrees to compensate the Contractor for an additional ground treatment quantity of 241 cubic yards (CY) at the east and west side of the TBM Launch Box treated area. REAR AND TRANSPORTED AND A THE PROPERTY OF A REAL AND A

REASON FOR CHANGE:

Bid Item ES-3 of Section 01 20 00 Price and Payment Procedures states that "Estimates for progress payment purposes will be made based on the extent of ground treatment performed, measured by the in-situ cubic vard to the dimensions indicated for work compensable under this item, and multiplied by the unit price bid."

Contract Drawing ES-163 Rev.1 provides minimum dimensions for the extent of the ground treatment for the TBM launch box. A note on the plan and section view of the drawing also indicates that the TBM Breakout Ground Treatment is "Designed by Contractor." Note 8 on the same drawing states, "Grout to be designed by the Contractor." The Contractor shall develop the proposed grouting plans based on the conditions at the TBM Launch Box and the requirements shown on this sheet. The Contractor shall submit the proposed grouting plans to Engineer for review and approval." data as the design of the second s

The main purpose for having a Solicreté breakout zone is to provide relatively impermeable ground for the Tunnel Boring Machines (TBMs) to start mining within. The minimum dimensions were not sufficient to produce a large enough Solicrete breakout zone for a safe TBM breakout because the overall length of the TBM shield and cutterhead exceeds the minimum length shown in the Contract Drawings. The zone had to be sized to allow installation and backfill grouting of at least one ring of the tunnel liner to provide a watertight seal to develop between the treated impermeable ground and the tunnel liner. Once a satisfactory seal has been developed, the TBM may safely exit the improved ground with a reduced risk of water and soil inflow into the tunnel/TBM Launch Box interface. The lack of a sufficient seal in un-improved ground would result in water and soil inflow which would likely cause significant and potentially catastrophic ground settlement at the breakout (i.e. the intersection of 4th and Harrison). The Contractor designed the minimum jet grout layout to provide for the development of a sufficient seal. The design allows for the encapsulation of the TBM and one ring with only 1.8' of cover between the TBM cutterhead and edge of jet grout. The Contractor has provided additional protection by installing a breakout seal prior to mining. 4 17840/26

The Schedule of Bid Prices indicates that Bid Item ES-3 (Ground Treatment TBM Launch Box Breakouts) has an estimated quantity of 2,831 CY of in-situ treated ground. The Contractor installed 3,929 CY of Sollcrete (Jet Grout) for ground treatment which has been verified by the SFMTA. This translates to an additional quantity of 1,098 CY of around treatment beyond the quantity listed for Bid Item ES-3.

The City previously compensated the Contractor for 857 CY of additional ground treatment (Contract Modification No. 22) above the Bid Item ES-3 quantity. This Contract Modification increases the total installed quantity to 3,929 CY.

- A. SFMTA Estimate: \$168,700; \$700/CY (ES-3 Bid Item unit price) multiplied by 241 CY
- B. Contractor's Proposal: \$168,700, as contained in Claim No. 4 proposal dated 03/07/2014
- C. Negotiated Amount: \$168,700

Municipal Transportation Agency



415.701,5262 Phone 821 Howard Street San Francisco, Ca 94103 415.701.5222 Fax

1 .

central cosubway

Summary Record of Negotiations Contract 1252

NEGOTIATION HISTORY:

On February 18th, 2013, the Contractor submitted Change Order Request (COR) No. 070, alleging that the actual jet grout quantity required at the TBM Launch Box was in excess of the quantity listed for Bid Item ES-3 on the Schedule of Bid Prices. As a result the Contractor claimed estimated direct cost impacts to be \$768,600 which is equal to 1,098 CY at the ES-3 Bid Item unit price of \$700/CY.

sent a prel tra-

On March 21st, 2013, the City provided letter no. 129, in which the City contended that COR 070, for the jet grout quantity overrun, represented a change to the contract work and that the scope and cost must be confirmed and agreed to pursuant to Article 6 of the General Provisions prior to executing a Contract Modification.

On April 22nd, 2013, the City provided letter no. 145, in which the City agreed to an additional ground treatment quantity of 857 CY in excess of the 2,831 CY listed for Bid Item ES·3 on the Schedule of Bid Prices. This total of 3,688 CY represented the total extent of ground treatment indicated on Contract Drawing ES·163 Rev. 1 for which the City agreed to compensate the Contractor. The remaining 241 CY the Contractor claimed represents an area outside the jet grouted zone indicated on the drawings which the City determined was incidental to the work. As a result, the City did not agree to compensate the Contractor for 241 CY of jet grout installed in these areas.

On April 23rd, 2013, the Contractor sent letter no. 120 which stated that BIHJV disagreed with SFMTA's determination that 3,688 CY represents the total extent of ground treatment indicated on Contract Drawing ES-163 Rev.1 and that they would submit a written COR for the remaining 241 CY which was in disagreement.

On December 31st, 2013, Contract Modification No. 22 was certified for \$599,900. This amount represents 857 CY at the original Bid Item price of \$700/CY. Contract Modification No. 22 did not include the disputed quantity of 241 CY that the Contractor claimed for the jet grout columns on the east and west side of the TBM Launch Box treated area.

Both parties agreed to refer COR 070 to the Issue Resolution Ladder (IRL) process as formalized in SFMTA Letter No. 036.

On January 8th, 2014, the SFMTA offered the Contractor a settlement of \$84,350 at a "Level 3" IRL meeting. The Contractor did not accept the settlement offer and there was no change in the claimed amount of \$168,700.

On January 21st, 2014, the Contractor issued a Notice of Potential Claim for COR 070 (BIHJV Letter No. 197), as all parties involved were unable to reach an agreement.

On March 7th, 2014, the Contractor submitted Claim No. 04, in the amount of \$168,700 claiming additional costs associated with the installation of jet grout columns (241 CY).

On April 15th, 2014, at an executive level IRL meeting, John Funghi (SFMTA Program Director) and Jeff Higgins (BIH Chief Executive Officer) negotiated resolution of Contract Claim No. 3 and Contract Claim No. 04.

SFMTA determined that due to ambiguity in delineating compensable in-situ jet grout, compensating the Contractor for in place jet grout volumes would be a fair and reasonable resolution. A determination would most likely be found in favor of BIHJV if Claim No. 04 were brought before the Dispute Resolution Board or litigation, and that the requested amount (\$168,700) was fair and reasonable based on the confirmed in-situ quantities and verified ES-3 Bid Item unit price (\$700/cubic yard). The unit price was previously verified by separate analysis included with Contract Modification No. 22.







Summary Record of Negotiations Contract 1252

Both parties conclude that the Total Negotiated Amount of \$168,700 to be a fair and reasonable compensation for this work.

By:

Alex Clifford SFMTA Construction Manager







CLAIM No. 04

LAUNCH BOX – JET GROUT QUANTITY OVERRUN (SCALLOPS)



PREPARED BY:

Barnard Impregilo Healy Joint Venture 420 Fourth Street San Francisco, CA 94107 Ph: (415) 546-0799 Fax: (415)546-3822



March 7, 2014

Letter No. 219

Mun Wei Leong Resident Engineer San Francisco Municipal Transportation Agency 821 Howard Street, 2nd Floor San Francisco, CA 94103

Subject:	Third Street Light Rail Program Phase II Central Subway Tunneling Contract No. 1252
Ret	Contract Claim No. 4 - Launch Box Jet Grout Quantity Overrun (Scallops)

Mr: Leong:

This letter shall serve as Contract Claim No. 4 in accordance with Article 13 of the General Conditions concerning the SFMTA's denial to reimburse the Contractor for additional costs associated with the installation of Jet Grout Scallops, 241 cy of the total 3,929 cy, at the Launch Box location as further described in Change Order Request (COR) No. 070 revision 1 dated September 9, 2013.

The Contract Claim is made in good faith and Contractor with due diligence investigated its claim and gathered and reviewed such relevant evidence and documents to support the Contract Claim. Supporting data and documents submitted in support of the Contract Claim are accurate and complete to the best of the Contractor's knowledge. The amount requested accurately reflects the Contract adjustment for which the Contractor believes the City is liable.

The Contract Claim is submitted under the penalty of perjury and is to be considered certified.

Sincerely.

Jack i Jucit

Ben Campbell Project Manager

BENALF OF

Cc: Dan Schall, BIHJV Jim McDonald, BIHJV Keith Bizzack, CJA/NCC JV



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Narrative Summary
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BIHJV in-situ Jet Grout Volume Calculation for Launch Box Breakouts
COR No. 070 package (2/16/13)
COR No. 070 Revision 1 package (9/13/13)
Contract Modification No. 22

Narrative Summary

General

Barnard Impregilo Healy Joint Venture (BIHJV) and subcontractor, Condon-Johnson & Associates, Inc. – Nicholson Construction Company Joint Venture (CJA-NCC JV), installed a total in-situ volume of ground treatment at the Launch Box location that exceeded the Contract Bid Item ES-3 quantity stated in the Schedule of Bid Prices. The in-situ quantity of ground treatment installed at this location was equal to 139% of the Bid Item ES-3 quantity, or an additional 1,098 CY.

The San Francisco Municipal Transportation Agency (SFMTA) split the quantity overrun into two components; 1) total volume of ground treatment excluding the scallops on the east and west columns, 857 CY, and 2) total volume of scallops on the east and west columns, 241 CY. The in-situ volume of ground treatment without scallops on the east and west columns was agreed to be Additional Work between BIHJV and SFMTA, and compensation was provided to BIHJV as further described in Contract Modification No. 22. The SFMTA contended that the additional volume of jet grout scallops was incidental to the Work and was not Additional Work and subsequently payment to BIHJV was denied.

Claim Merit and Amount

The basis for BIHJV's contract claim originated as a result of the SFMTA's denial of payment to BIHJV for the in-situ Jet Grout scallops, 241 CY, installed at the north end of the Launch Box. The denial of payment for said Work is in violation of the terms stated in the Division 1 Technical Specifications, Section 01 20 00 – 1.04A.3 (Bid Item ES-3 – Ground Treatment at TBM Launch Box Breakouts).

Additionally, the Contract Drawings do not indicate a Pay Limit Line for Ground Treatment at the Launch Box Breakouts and do not include specific notes excluding payment for any portion of the in-situ jet grout quantity required to meet the minimum dimensions of the breakout ground treatment area. BIHJV relied on the accuracy of the Contract Specifications and Drawings in the development of its Bid Item ES-3 unit price.

In accordance with General Provisions Article 13, Section 13.02 (CONTRACT CLAIM), BIHJV submits a Contract Claim to the SFMTA for additional compensation in the amount of **\$168,000.00**.

Claim Clause

General Requirements specification section 01.20.00 - 1.04A.3 (Bid Item ES-3 – Ground Treatment at TBM Launch Box Breakouts) defines how the Work is quantified "measured by the in-situ cubic yard to the dimensions indicated for Work compensable under this bid item, and multiplied by the unit price bid item."

LIST OF SPECIFICATIONS

Item N	o. Specification Section Article or Section	Specification Description
1	Proposals and Contract Forms	Schedule of Bid Prices
2	General Provisions - Article 9.04	Unit Price Work
3	General Provisions - Article 13.01	Notice of Potential Claim
4	General Provisions - Article 13.02	Contract Claim
5	Technical Specifications - Section 01 20 00 - 1.04A.3	Price and Payment Procedures: Bid Item ES-3 - Ground Treatment at TBM Launch Box Breakouts
6	Technical Specifications - Section 31 32 13.36	Earthwork (Jet Grouting)

LIST OF DRAWINGS

Item		
No.	Drawing	Drawing Description
1	Conformed Volume 1 Dwg No. ES-163	Excavation and Ground Support TBM Launch Box General Arrangement
I	Comormed volume 1 Dwg No. ES-165	Ground Treatment
2	BIHJV Dwg	Jet Grout Volume Analysis
3	BIHJV Dwg	Jet Grout Scallop Dwg
4	BIHJV Dwg	Scallop Columns - Nadir intersection point
5	BIHJV Dwg	Scallop Columns - Nadir intersection point (zoomed in)

LIST OF CLARIFICATIONS / RFIs

Item		
No.	Clarification	Clarification Description
0	N/A	N/A

LIST OF CORRESPONDENCE

Item N	o. Correspondence Item	Correspondence Description
1	SFMTA Letter No. 129	SFMTA Letter granting merit to BIHJV for Additional Jet Grout Compensation
2	Record Of Negotiation (RON) - Executive Level IRL	RON memorializing discussions held between SFMTA, BIHJV and CJA/NCC JV regarding compensation for the Launch Box Jet Grout Scallops qty (241 CY)
3	BIHJV Letter No. 197	BIHJV Letter - Notice of Potential Claim (Launch Box Jet Grout Quantity Overrun (Scallops qty)
4	BIHJV Letter No. 219	BIHJV Letter - Contract Claim No. 4 (Launch Box Jet Grout Quantity Overrun (Scallops qty)

LIST OF SCHEDULES

Item		
No.	Schedule Item	Schedule Description
1	Schedule Update No. 5	BIH Schedule Update No. 5 (June 2012 Update)
2	Schedule Update No. 6	BIH Schedule Update No. 6 (July 2012 Update)
3	Schedule Update No. 7	BIH Schedule Update No. 7 (August 2012 Update)
4	Schedule Update No. 8	BIH Schedule Update No. 8 (September 2012 Update)
5	Schedule Update No. 9	BIH Schedule Update No. 9 (October 2012 Update)
6	Schedule Update No. 10	BIH Schedule Update No. 10 (November 2012 Update)
7	Schedule Update No. 11	BIH Schedule Update No. 11 (December 2012 Update)
8	Schedule Update No. 12	BIH Schedule Update No. 6 (January 2013 Update)

LIST OF OTHER DOCUMENTS

Item

No.	Other Item	Other Item Description
1	Submittal No. 31 32 13.36-006	BIHJV created revised Launch Box Jet Grout Dwg
2	SFMTA Submittal No. 31 32 13.36-006	Approved Submittal Response
3	BIHJV Jet Grout Volume Calculation	BIHJV in-situ Jet Grout Volume calculation (with & without scallops)
4	Change Order Request No. 070	BIHJV COR No. 070 package
5	Change Order Request No. 070 (Revision 1)	BIHJV COR No. 070 Rev 1 package
6	SFMTA CMOD No. 22 document	SFMTA certified CMOD No. 22 package for compensation to BIHJV for Additional Jet Grout Volume (857 CY), but excluding the Jet Grout scallops qty (241 CY)

CHRONOLOGY OF EVENTS AND CORRESPONDENCE

ITEM		
No.	DATE	EVENT DESCRIPTION
1	06/01/12	BIHJV & CJA/NCC JV started Jet Grout work at the Launch Box TBM Breakout Location per schedule update no. 5
2	07/01/12	BIHJV & CJA/NCC JV performed Jet Grout work at the Launch Box TBM Breakout Location per schedule update no. 6
3	07/27/12	BIHJV submitted a revised Launch Box Jet Grout Shop Dwg depicting an additional row of columns required for a successful TBM Breakout
4	08/01/12	BIHJV & CJA/NCC JV performed Jet Grout work at the Launch Box TBM Breakout Location per schedule update no. 7
5	08/21/12	SFMTA approved the revised Launch Box Jet Grout Shop Dwg depicting an additional row of columns required for a successful TBM Breakout
6	09/01/12	BIHJV & CJA/NCC JV performed Jet Grout work at the Launch Box TBM Breakout Location per schedule update no. 8
7	10/01/12	BIHJV & CJA/NCC JV performed Jet Grout work at the Launch Box TBM Breakout Location per schedule update no. 9
8	11/01/12	BIHJV & CJA/NCC JV performed Jet Grout work at the Launch Box TBM Breakout Location per schedule update no. 10
9	12/01/12	BIHJV & CJA/NCC JV performed Jet Grout work at the Launch Box TBM Breakout Location per schedule update no. 11
10	01/01/13	BIHJV & CJA/NCC JV completed Jet Grout work at the Launch Box TBM Breakout Location per schedule update no. 12
11	02/18/13	BIHJV submitted the original Change Order Request (COR) No. 070 for (Launch Box - Jet Grout Quantity Overrun)
12	03/21/13	SFMTA granted merit for the COR No. 70 Additional Work
13	09/13/13	BIHJV submitted the final revision for COR No. 070 (Launch Box - Jet Grout Quantity Overrun) after negotiating cost details with the SFMTA project team for approximately 6 months, March 2013 - September 2013
14	01/06/14	SFMTA certified CMOD No. 22 (Payment for Additional Jet Grout Work at the Launch Box TBM Breakout location) for a total amount equal to \$599,900.00. CMOD No. 22 didn't compensate BIHJV for the scallops qty (241 CY) on the east and west Jet Grout columns at the Launch Box location which triggered the Issue Resolution Ladder process.
15	01/08/14	SFMTA and BIHJV held an Issue Resolution Ladder (IRL) meeting with Dan Schall, Keith Bizzack, Rich Redman
16	01/16/14	SFMTA sent the final RON from the 1/8/14 IRL meeting memorializing each party's position
17	01/21/14	BIHJV sent NOPC Letter No. 197
18	03/07/14	BIHJV sent Contract CLAIM No. 4

Analysis of Contract Claim Merit

- 1. Technical Specifications 01 20 00 1.04A.3 (Bid Item ES-3 Ground Treatment at TBM Launch Box Breakouts) is measured by the "in-situ cubic yard to the dimensions indicated for work" as defined in the Contract Specifications.
- 2. BIHJV and CJA-NCC JV collectively installed a total of 3,929 CY of "in-situ" jet grout volume, quantity approved by the SFMTA, as needed to achieve the "min" ground treatment area at the north end of the Launch Box.
- 3. The SFMTA has denied compensation for the "in-situ" volume of Jet Grout along the east and west borders (scallops) of the Launch Box TBM breakout ground treatment area that is installed beyond a 5'-0" MIN dimension line shown on ES-163 which equates to 241 CY of in-situ Jet Grout.
- 4. The scallop shaped volumes on ALL sides were necessary in order to achieve the ES-163 dwg "min" dimension footprint indicated for the Work.
- 5. The SFMTA paid for the scallops on the north border of the ES-163 dwg, but doesn't believe BIHJV is owed compensation for the scallops on the east and west borders. This is not consistent.
- 6. The ES-163 dwg layout of the rows of columns is a result of providing the most efficient pattern of overlapping circles emerging in rows from the north wall of the Launch Box heading to the north. This is why there is an alternating pattern of columns along the east and west boundaries. Since the northern end of the jet grout zone was defined as variable or "designed by contractor", additional rows of columns could and were added as required to meet BIHJV's design criteria for a successful TBM breakout in order to accommodate the actual TBM size. The SFMTA did not dispute the fact that the northern boundary columns should be paid in full which they were paid in full.
- 7. Dwg ES-163 defines the "min" dimensions (east & west borders) required for the TBM breakout ground treatment area. The "min" dimensions do not make reference to a "pay" dimension, therefore should not be used to exclude payment for jet grout outside of this "min" dimension, but yet required to achieve the minimum dimension.
- 8. If the ES-163 dwg included a note cross referencing the 5' 0" MIN dimension line with any type of Pay limit note, BIHJV could have adjusted the unit price to include the anticipated Jet Grout volume beyond this "min" dimension line as required to meet the "min" dimensions at the time of Bid. BIHJV relied on the accuracy of the Technical Specifications Measurement and Payment definition for the installation of ground treatment at the TBM Launch Box breakouts "in-situ" (situated in its natural state), in other words the column complete, unaltered or truncated.
- 9. The SFMTA received an advantage at the time of bid as BIHJV submitted a unit price for Bid Item ES-3 which considered a full reimbursement for all "in-situ" jet grout volume required to meet the 5' 0" MIN dimension line along the east and west borders of the TBM Launch Box Breakout Ground Treatment area. The unit price for Bid Item ES-3 would have been higher if BIHJV would have known the intent of the 5' 0" MIN dimension line really represented a pay dimension line and any "insitu" Jet Grout volume outside of this limit was not compensable.
- 10. The 5'-0" MIN. dimension on the ES-163 dwg represents the nadir intersection point of the jet grout columns installed in order to achieve the required ground treatment. A dimension is not provided for the apex of the jet grout column so it is to this minimum point BIHJV was to work to and the volume of the" in-situ" Jet Grout column, the entire column, with this minimum intersection point defined that equals the total quantity.



BARNARD IMPREGILO HEALY JOINT VENTURE

420 Fourth Street San Francisco, CA 94107, PH (415) 546-0799, FX (415) 546-3822 CN-1252: Third Street Lightrail Program Phase 2 - Central Subway Project

CLAIM No. 4

Launch Box - Jet Grout Quantity Overrun (Scallops only)

COR No. 070 Cost Summary - Scallops only

BID ITEM NO.	DESCRIPTION		UNIT PRICE	QTY	AMOUNT
ES-3	Ground Treatment TBM Launch Box Breakouts	CY	\$700.00	241	\$168,700.00
Total Am	nount			\$168	3,700.00

UNIT PRICE COST ANALYSIS LAUNCH BOX - JET GROUT WORK

Unit Price Cost Justification:

The SFMTA project team and BIH collectively prepared an estimate to determine the actual unit price realized by BIH & CJA/NCC for the performance of Jet Grout Work at the Launch Box location as needed to adjust for the quantity overrun. BIH demonstrated an actual unit price equal to **\$736/cy.** The SFMTA used the bid item unit price of \$700/cy for compensation to BIH & CJA/NCC for all Launch Box Jet Grout that exceeded 100% of the bid item quantity (857cy) per CMOD No. 22. BIH used the same unit price, bid item unit price, multiplied by the scallops quantity (241cy) for a total price included within CLAIM No. 4 = **\$168,700.00**



BARNARD IMPREGILO HEALY JOINT VENTURE

420 Fourth Street San Francisco, CA 94107, PH (415) 546-0799, FX (415) 546-3822 CONTRACT 1252: Third Street Lightrail Program Phase 2 - Central Subway Project

> **09/13/13** Revision 1

COR 070: Launch Box - Jet Grout Qty Overrun

Summary of LS Costs

Cost Impacts

	·	Total Cost
ractor (BIHJV)		
Labor	\$	118,110.98
Equipment	\$	184,146.10
Material	\$	-
Subcontractor (Trucking/Disposal)	\$	140,259.2
Street Marking Line Item (LS)	\$	7,500.0
Potholing Line Item (LS)	\$	50,000.0
BIHJV Direct Costs Subtotal	\$	500,016.3
Markup on CJA-NCC Costs (5%)	\$	108,780.6
Markup on Direct Costs - L, E, M (15%)	\$	53,963.5
Markup on Lower Tier Subcontractor Costs (5%)	\$	7,012.9
Performance & Payment Bonds/ Builders Risk Insurance (1.68%)	\$	47,802.5
BIHJV TOTAL	\$	717,576.0

Subcontractor (CJA-NCC)

Labor	\$ 463,445.62
Equipment	\$ 512,477.95
Material	\$ 311,381.30
Subcontractor (Badger Trucking)	\$ 596,627.00
Additional Mobilization (LS)	\$ 50,000.00
CJA-NCC Direct Costs Subtotal	\$ 1,933,931.87
Markup on Direct Costs - L, E, M (15%)	\$ 200,595.73
Markup on Lower Tier Subcontractor Costs (5%)	\$ 29,831.35
Payment & Performance Bonds (0.52%)	\$ 11,254.67
CJA-NCC TOTAL	\$ 2,175,613.62

Total Amount	\$ 2,893,189.66
Actual Jet Grout Qty (CY)	3,929
Unit Price Jet Grout (\$/CY)	<mark>\$736.37</mark>
Actual Launch Box Jet Grout Unit Price realized by BIH & CJA/NCC	

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CHANGE ORDER REQUEST FORM

CONTRACT 1252: Third Street Lightrail Program Phase 2 - Central Subway Project Project Office Address: 420 Fourth Street San Francisco, CA 94107, PH (415) 546-0799, FAX (415) 546-3822

TITLE: COR # 070: Jet Grout Quantity Greater than Bid Item ES-3 Quantity

GENERAL:

The additional work described herein consists of the actual required jet grout quantity that is in excess of the quantity listed for Bid Item ES-3 (Ground Treatment TBM Launch Box Breakouts) on the Schedule of Bid Prices. Specifically, Bid Item ES-3 has an estimated quantity of 2,831 CY of in-situ treated ground (soilcrete), while the actual required soilcrete quantity is 3,929 CY. This translates to an additional quantity of 1,098 CY beyond the quantity listed for Bid Item ES-3.

The Contract specifies that the final dimensions of the Ground Treatment Breakout are to be designed by the Contractor. This is consistent for all Ground Treatment unit price bid items, as the final dimensions of the Ground Treatment areas are dependent on the final design of the TBMs. The Ground Treatment Breakout design will be referred to as the "Contractor Design". The layout for the Contractor Design was developed in accordance with the Contract to the minimum dimensions required by BIHJV for a safe TBM mining operation.

BIHJV is seeking compensation for the additional work required to achieve the soilcrete volumes represented by the Contractor Design. SFMTA has directed BIHJV to track this issue through the Change Order process.

DIRECT COST IMPACTS:

The estimated direct cost impacts, in excess of the 2,831 cy stated for Bid Item ES-3, are \$768,600. This cost is derived using the additional qty, 1,098 CY, multiplied by the ES-3 Bid Item unit price of \$700/CY.

TIME IMPACTS:

There are no time impacts associated with this additional work.

WHAT (DECRIPTION OF COR):

Contract Drawing ES-163 depicts the minimum extents of the TBM Breakout Ground Treatment. It should be noted that the bid quantity is actually lower than the theoretical volume of the soilcrete zone shown in ES-163, using the minimum dimensions given therein. The minimum dimensions were not sufficient to produce a large enough soilcrete breakout zone for a safe TBM breakout. The main purpose for having a soilcrete breakout zone is to provide relatively impermeable ground for the TBMs to start mining within. The zone must be sized to allow installation and backfill grouting of enough of the tunnel liner to provide a watertight seal to develop between the treated impermeable ground and the tunnel liner. Once a satisfactory seal has been developed, the TBM may safely exit the improved ground with a reduced risk of water and soil inflow into the tunnel/TBM Launch Box interface. The lack of a sufficient seal in un-improved ground would result in water and soil inflow which would likely cause significant and potentially catastrophic ground settlement at the breakout (i.e. the intersection of 4th and Harrison). Therefore, BIHJV has designed the minimum jet grout layout to provide for the development of a sufficient seal.

It should be further noted that BIHJV selected breakout dimensions that would only provide a minimal factor of safety for the development of a satisfactory seal. To help compensate for this, BIHJV has elected to purchase a TBM seal, which will be installed within the TBM Launch Box and will supplement the sealing effort of the treated ground. Without such additional measure, the jet grout ground treatment area would need to be even further enlarged.

The Contract Documents specify for the soilcrete zone to be Contractor designed, pursuant to the following:

- 1. Contract Drawing ES-163:
 - a. Every dimension shown for the ground treatment zone is given as a minimum dimension
 - b. Numerous dimensions include a note that specifically states "TBM Breakout Ground Treatment designed by Contractor"
 - c. Note 8 states, "Grout to be designed by the Contractor. The Contractor shall develop the proposed grouting plans based on the conditions at the TBM Launch Box and the requirements shown on this sheet. The Contractor shall submit the proposed grouting plans to Engineer for review and approval.
- 2. Specification Section 31 32 13.36 (Jet Grouting):
 - a. Paragraph 1.01.A states, "The locations and extents of the required jet grouting are shown on the Contract Drawings"
 - Paragraph 1.04 states, "Submittals: [...] Shop Drawings: Design, specifications, method of operation, supporting calculations, and other data pertaining to but not limited to the following: 1. Jet Grouting column layout"
 - c. Paragraph 1.06.B states, "[Submit] the following information for methods of construction: [...] Key installation plan showing column placement including proposed column spacing and design overlap, depths of placement, angles of inclination, drill hole deviation allowance and provision for closure columns"
 - d. Paragraph 3.01.C states, "Install jet grout columns and jet grout plugs in the sequence shown on the Contract Drawings, unless otherwise instructed by the Engineer at least 90 days before subsequent construction encroaches"
 - e. Paragraph 3.02.D.9 states, "Complete jet grouting for the entire area as shown on the Contract Drawings"
 - f. Paragraph 3.03.C.4.a states, "Perform production jet grouting to construct soil-grout walls, blocks and sections at locations and with dimensions shown on the Contract Drawings or reviewed Shop Drawings and as specified herein.

It should be noted that the reviewed and approved Contractor Design (represented by Submittal No. 31 32 13.36-006) included a jet grout layout that yields 4,146 CY of in-situ soilcrete. BIHJV subsequently modified the design to improve the efficiency of the column layout. This led to the development of the jet grout layout within Transmittal #00691, which also took into account initial results from the jet grout testing program. This resulted in a total in-situ soilcrete volume of 3,929 CY, which is an overall reduction of in-situ soilcrete from the approved design by 217 CY. This reduction translates into a savings to SFMTA of \$151,900.

WHY (REASON FOR COR):

This COR is being generated at the request of the SFMTA as a means to track the payment of this jet grout quantity in excess of the quantity listed in the Schedule of Bid Prices.

WHERE (LOCATION/STATION):

This Ground Treatment work for the TBM Launch Box Breakouts is on the north side of the north headwall of the TBM Launch Box.

WHEN (OCCURRENCE DATE, ACTION DATE):

- 5/30/2012 Original jet grout layout within Submittal No. 31 32 13.36-002 approved by SFMTA
- 7/27/2012 Revised jet grout layout within Submittal No. 31 32 13.36-006 sent to SFMTA
- 7/27/2012 Notified SFMTA of expected volume of jet grout within Transmittal #00482
- 8/21/2012 Submittal No. 31 32 13.36-006 is approved by SFMTA
- 9/26/2012 Transmittal #00691 (Revised jet grout layout for efficiency) is sent to SFMTA
- 1/8/2013 Jet grouting work is completed at the TBM Launch Box

HOW (RECOMMENDATION OF ACTION):

Bid Item ES-3 is a unit price bid item that has been installed to the pay limits as identified herein, for the reasons stated herein. No additional action necessary.

 SPEC REF:
 31 32 13.36; 01 20 00

 APPLICABLE DRAWINGS:
 ES-163

LIST OF ATTACHMENTS: See following page.

PREPARED BY:

Jack Sucilsky Project Engineer

9/13/2013

Contractor's Representative (Name, Title)

DATE

CLAIM No. 4 (LB - Jet Grout Scallops) CONTRACT NO. 1252 THIRD STREET LIGHT RAIL PROGRAM PHASE 2 CENTRAL SUBWAY TUNNELING

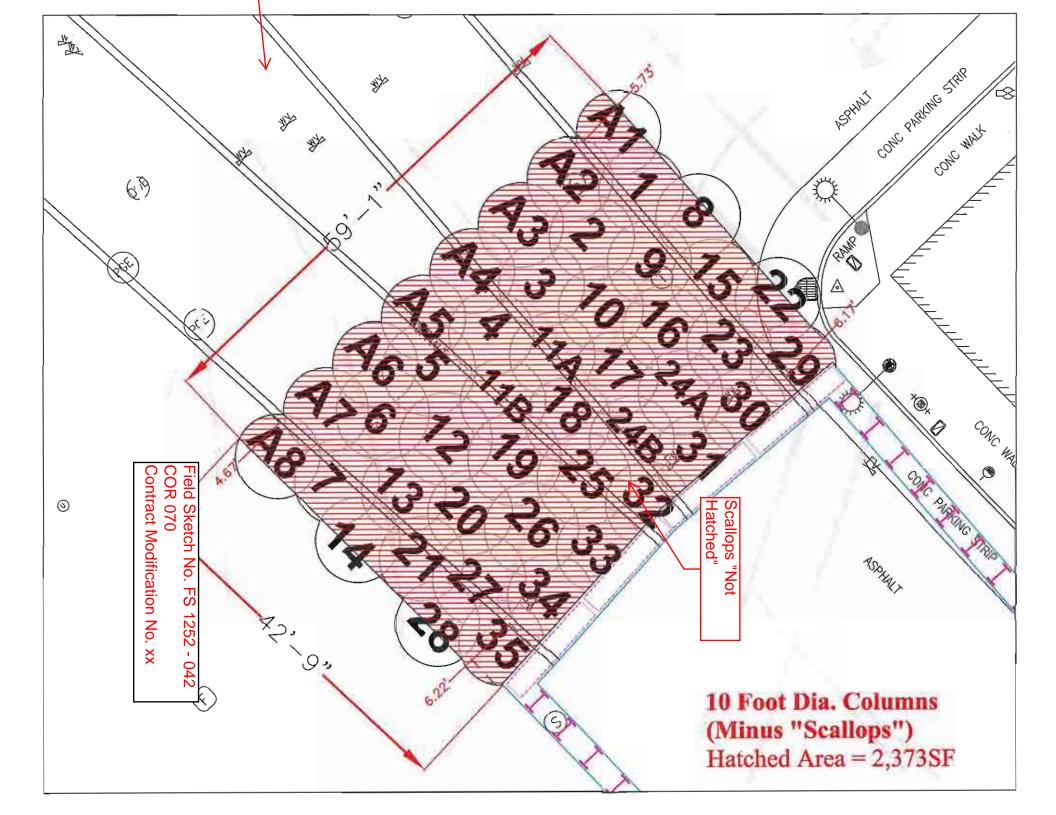
SCHEDULE OF BID PRICES ADDENDUM NO. 6

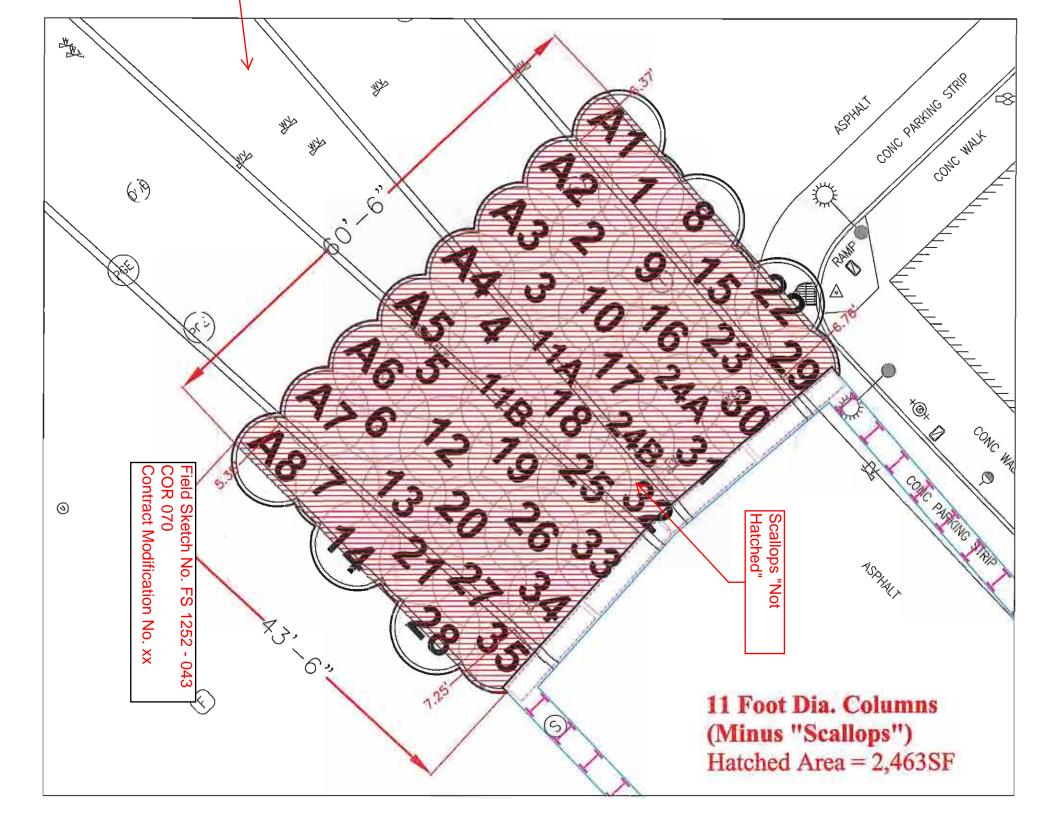
Name of Bidder:

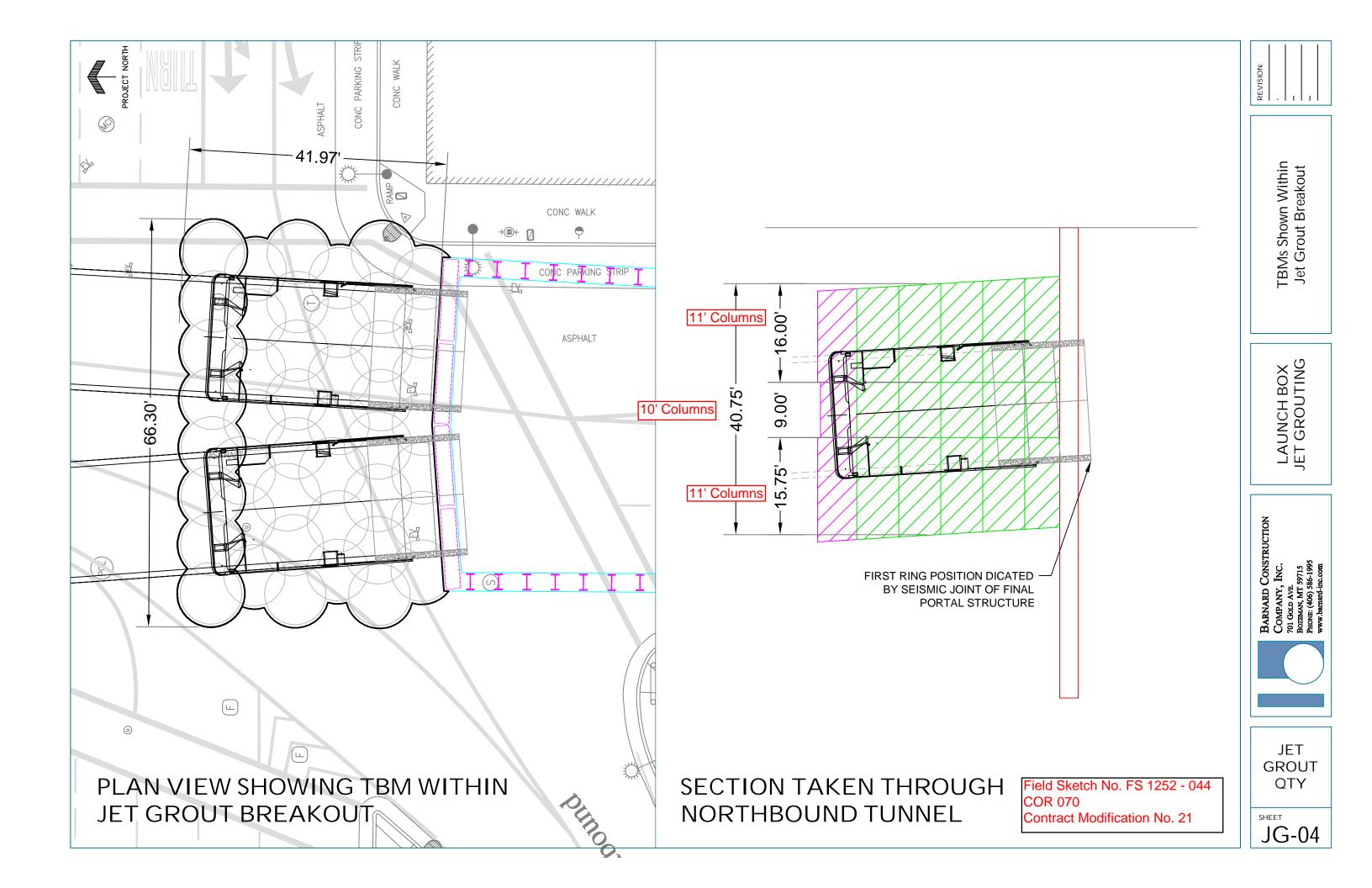
Unit Defin	ition: LS - Lump Sum, CY = Cubic Yards, LF = Linear Feet, CF = Cubic Feet				
Bid Item	Bid Item Description	Quantity	Unit	Unit Price	Total Amount
	GENERAL - GE				
GE-1	TBM PROCUREMENT AND MOBILIZATION, AND SEGMENT MOULD PROCUREMENT		LS		
GE-2	FIELD MOBILIZATION AND DEMOBILIZATION		LS		
GE-3	UTILITY DEMOLITION, SEWER, WATER DISTRIBUTION, AUXILIARY WATER SUPPLY SYSTEM. ROAD DEMOLITION. PAVEMENT		LS		
GE-4	NOT USED				
GE-5	NOT USED				
GE-6	CONTRACT WORK FOR WHICH A BID ITEM HAS NOT BEEN ESTABLISHED		LS		
GE-7	REPAIR OF CATEGORY B PIPES ALLOWANCE		ALLOWANCE		\$300,000
GE-8	ENVIRONMENTAL MITIGATION ALLOWANCE		ALLOWANCE		\$300,000
GE-9	DISPUTES REVIEW BOARD ALLOWANCE		ALLOWANCE		\$100,000
GE-10	PARTNERING ALLOWANCE		ALLOWANCE		\$100,000
GE-11	SOCIALLY/ECONOMICALLY DISADVANTAGED EMPLOYMENT OPPORTUNITIES ALLOWANCE		ALLOWANCE		\$1,000,000
GE-12	RELOCATION OF EXISTING LIGHTING CONTROL EQUIPMENT ALLOWANCE		ALLOWANCE		\$50,000
GE-13	TRAFFIC CONTROL - CITY PERSONNEL ALLOWANCE		ALLOWANCE		\$740,000
	EXCAVATION AND GROUND SUPPORT - ES				
ES-1	SHEETING, SHORING, AND BRACING		LS		
ES-2	TBM LAUNCH BOX CONSTRUCTION		LS		
ES-3	GROUND TREATMENT TBM LAUNCH BOX BREAKOUTS	2,831	CY		
ES-4	GROUND TREATMENT AT RETRIEVAL SHAFT BREAKOUTS	2,477	CY		
ES-5	GROUND TREATMENT AT CROSS PASSAGE NUMBER 5	3,748	СҮ		
ES-6	CONSTRUCTION OF HEADWALLS AT UNION SQUARE/MARKET STREET STATION		LS		
ES-7	CONSTRUCTION OF HEADWALLS AT MOSCONE STATION		LS		
ES-8	ADDITIONAL COSTS OF HAZARDOUS WASTE ALLOWANCE		ALLOWANCE		\$200,000
	STRUCTURAL - ST				
ST-1	CONSTRUCTION OF 4TH STREET PORTAL STRUCTURE		LS		
ST-2	CONSTRUCTION OF TUNNELS		LS		
ST-3	CONSTRUCTION OF CROSS PASSAGES		LS		
ST-4	CONSTRUCTION OF BASE BID PERMANENT RETRIEVAL SHAFT		LS		
	BUILDING PROTECTION - BP				
BP-1	PROTECTION AND MONITORING		LS		
BP-2	PROTECTION AND MONITORING ALLOWANCE		ALLOWANCE		\$100,000
BP-3	ELLIS STREET AND GREEN STREET TEMPORARY ACCESS SHAFTS		LS		
BP-4	COMPENSATION GROUT HOLES	20,910	LF		
BP-5	COMPENSATION GROUTING	20,900	CF		
А.	TOTAL BASE BID				

	OPTIONAL BID ITEMS		
ST-OP1	RETRIEVAL SHAFT OPTION (DEDUCT OPTION)	LS	
GE-OP1	OWNER CONTROLLED INSURANCE PROGRAM (DEDUCT OPTION)	LS	

See Special Provisions, Section SP-1, for Award Procedures







IN-SITU SOILCRETE VOLUME FOR LAUNCH BOX BREAKOUT MINUS THE EAST AND WEST "SCALLOPS"

 IN-SITU VOLUME CALCULATION: Based on jet grout layout sent to SFMTA under transmittal #00691. Yielding 11' Diameter Columns for upper 16' feet Yielding 10' Diameter Columns for middle 9' feet Yielding 11' Diameter Columns for lower 15.75' feet 	
<u>UPPER 16 FEET</u> Surface area of treated ground minus the east/west "scallops" = 2,463 SF Column Height: 16 ft	
Total in-situ soilcrete = (2,463 ft^2 * 16 ft)/27 ft^3/CY = <u>1460 CY for u</u>	pper 16'
MIDDLE 9 FEET Surface area of treated ground minus the east/west "scallops" = 2,373 SF Column Height: 9 ft	
Total in-situ soilcrete = (2,373 ft^2 * 9 ft)/27 ft^3/CY =	niddle 9'
LOWER 15.75 FEET Surface area of treated ground minus the east/west "scallops" = 2,463 SF Column Height: 15.75 ft	
Total in-situ soilcrete = (2,463 ft^2 * 15.75 ft)/27 ft^3/CY =1,437 CY for lowe	er 15.75'
TOTAL IN-SITU VOLUME OF SOILCRETE MINUS THE EAST & WEST "SCALLOPS" = 3	8,688 CY
TOTAL IN-SITU VOLUME OF SOILCRETE = 3 DELTA = 3	3,929 CY 241 CY

- b. The cost of designing, furnishing, installing, and maintaining sheeting, shoring, and bracing of trenches and open excavations five feet or deeper is paid for under other bid items. The cost of the Fourth Street Portal Structure is paid for under other bid items.
- c. Estimates for progress payment purposes will be made based on the Contractor's approved schedule of values.

>>>3. Bid Item ES-3—Ground Treatment at TBM Launch Box Breakouts

- a. The unit price for this bid item shall include full payment for the cost of work and materials necessary for ground treatment at the TBM Launch Box Breakouts.
- b. The cost of ground treatment at other locations is paid for under other bid items.
- c. Estimates for progress payment purposes will be made based on the extent of ground treatment performed, measured by the in-situ cubic yard to the dimensions indicated for work compensable under this item, and multiplied by the unit price bid.

4. Bid Item ES-4—Ground Treatment at Retrieval Shaft Breakouts

- a. The unit price for this bid item shall include full payment for the cost of work and materials necessary for ground treatment at the Retrieval Shaft Breakouts.
- b. The cost of ground treatment at other locations is paid for under other bid items.
- c. Estimates for progress payment purposes will be made based on the extent of ground treatment performed, measured by the in-situ cubic yard to the dimensions indicated for work compensable under this item, and multiplied by the unit price bid.

5. Bid Item ES-5—Ground Treatment at Cross Passage Number 5

- a. The unit price for this bid item shall include full payment for the cost of work and materials necessary for ground treatment at Cross Passage Number 5.
- b. The cost of ground treatment at other locations is paid for under other bid items.
- c. Estimates for progress payment purposes will be made based on the extent of ground treatment performed, measured by the in-situ cubic yard to the dimensions indicated for work compensable under this item, and multiplied by the unit price bid.

6. Bid Item ES-6— Construction of Headwalls at Union Square/Market Street Station

a. The lump sum price for this bid item shall include full payment for the cost of work and materials necessary for construction of secant pile

- 2. It may be necessary at times that portions of the Contractor's Work be discontinued, in order that the Engineer may make measurements or surveys without interruptions or other interference that might impair the accuracy of the results. At any time, on request of the Engineer, the Contractor shall discontinue its Work to such extent as may be necessary for the purposes of the Engineer.
- 3. No direct payment will be made for the cost to the Contractor of any work or delay occasioned by making measurements, or by inspection, and no extension of time will be allowed for such delays.

9.04 UNIT PRICE WORK

- A. General: Where the Contract Documents provide that all or part of the Work is to be Unit Price Work, initially the Contract Sum will be deemed to include for all Unit Price Work an amount equal to the product of the established unit price Bid for each Item of Unit Price Work times the estimated quantity of each Item as indicated in the Schedule of Bid Prices. The estimated quantities of unit price Items are not guaranteed and are solely for the purpose of comparing Bids and determining an initial Contract Total Bid Price. Determination of the actual quantities and classifications of Unit Price Work will be made in accordance with Division 1, and the Contract Sum will be adjusted based on the actual quantities of Work performed. Each unit price on the Schedule of Bid Prices shall include an amount considered by Contractor to cover Contractor's markup for overhead and profit as defined in Section 6.04.
- B. Quantity Increases: Should the pay quantity of actual Work required under any Bid Item be, or be increased to, more than 125 percent of the quantity shown in the Schedule of Bid Prices, the City may request a reduction in the unit price bid for that particular Bid Item. Such reduction in price will be negotiated in accordance with Article 6:
 - When the compensation payable for the number of units of an Item of Unit Price Work performed in excess of 125 percent of the quantity as indicated on the Schedule of Bid Price is less than \$5,000 at the unit price Bid therefor, the City reserves the right to make no adjustment in said unit price if the City so elects, except that an adjustment will be made if Contractor submits a Change Order Request (COR) in accordance with the requirements of Section 6.02.
 - 2. At the City's option, payment for Unit Price Work in such excess will be made on a Force Account basis as provided in Section 6.05 in lieu of adjusting the unit price in accordance with subsections 6.04.B.1 or 6.04.B.2 above.
 - C. Quantity Decreases: Should the pay quantity of actual Work required under any Bid Item be, or be reduced to, less than 75 percent of the quantity shown in the Schedule of Bid Prices and the value of the depletion, based on Contract bid prices, exceeds Two Thousand Dollars (\$2,000.00), the Contractor may request an increase in the unit price bid for that particular Bid Item, but must prove to the SFMTA's satisfaction that any price increase was caused by the reduction in quantity. Such increase in price, adjusted to compensate for fixed costs, will be negotiated in accordance with Article 6:

- 1. Payment for the total pay quantity for such Bid Item will in no case exceed the payment which would have been made for 75 percent of the quantity set forth in the Schedule of Bid Prices at the original unit price therefor.
- 2. At the City's option, payment for the Work involved in such deficiency will be made on a Force Account basis as provided in Section 6.05 in lieu of adjusting the unit price in accordance with subsections 6.04.C.1 and 6.04.C.2 above.

9.05 ALLOWANCE

A. Progress payments on account of allowances named in the Schedule of Bid shall be made for such sums as may be acceptable to the City. Prior to final payment, an appropriate Contract Modification will be issued as directed by the Engineer to reflect actual amounts due Contractor and amounts to be credited to the City of on account of Work covered by allowances, and the Contract Sum will be adjusted accordingly.

9.06 MEASUREMENT.

- A. General.
 - In addition to the general requirements in this Section, reference is made to the more specific requirements in other Sections of these General Provisions or the Special Provisions or Division 1 covering the methods of measuring and paying for particular materials and types of work.
 - 2. Except where payment for the Work is made at the lump sum or other set price bid for the particular item, payment shall be based on measurements of the completed Work in accordance with, and by instruments and devices calibrated to, United States Standard Measures, and the units of measurement for payment, and the limits thereof, shall be as shown on the Drawing or specified in the Special Provisions or the Technical Specifications, or in the absence thereof, as set forth in these General Provisions. The Engineer will make the measurements at no cost to the Contractor except as otherwise specified.
 - In estimating progress payments and final quantities, all lengths and areas shall be based on horizontal measurements, unless otherwise specified. The polar planimeter may be used for measurement of areas in estimating quantities under the Contract.
 - Volumes of excavation and embankment, unless otherwise specified, shall be computed by the method of average end areas and appropriate horizontal distances.
- B. Weight Measurements.
 - Material paid for by the ton, if local material or material not shipped by rail, shall be weighed on platform scales furnished by the Contractor, or on public scales at the expense of the Contractor. A ton shall consist of 2,000 pounds avoirdupois. The platform scales shall be of sufficient size and capacity to concurrently weigh the load and vehicle carrying the load. The Contractor shall furnish the Engineer with a Certificate of Inspection from the Sealer of Weights and Measures of the County

Jacobs Associates + Engineers/Consultants

an Francisco + San Diego + Pasadena	 Sealtie + Portiano 	i + Boslon + New	York + Melbourne
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	tral Su	bway - 100% Design Estima Tunnels, 4th & Harrison to N		Client SFMTA/AECOM MOS, UMS, & CT Stal	lions w		Job No. 4235.0 Cross	Estimator TLP/MH Passages	Rev O	Computed 02/28/201 10:10 A
		,		DIRECT COST DETAI				-		
L	lo4+	Loader oper. >4cy (Grp 3)				\$76.74	/mhr	13.60 r	mhr	\$1,04
E	1966	Wheel Loader Cat 966/4.8cy				\$93.84 /	/hr	13.60 k	าr	\$1,27
L	lab	General Labor (Grp 1)				\$61.77	/mhr	13.60 r	mhr	\$84
No.		scription		Item Quantity/Unit		uction rate	Other	lixed time		Fotal time
004	Jet Gi	routing - Launch Box		2,831 cy	200	cy/day			14.2	work days
		manhours		Equipment		Material		Subcontract		Item C
		341		\$10,661		\$1,022	4	51, 0 23,390		\$1,057,8
		0.120	\$8.04	\$3.77		\$0.36		\$361.49		\$373.6
		Stalus (Addilivo)		Work schedule	-			er ST pay		er OT pay
		Schedule factor (Normal)	8 hr/shift	1 shift/day		day/week	0	hr/shift	0	hr/shift
		ea. Launch Box	Jet grout Height			Note:				
		lf long*		If Excavated Diameter		Jet grouting to		npleted after	rexca	vation
		l í w ide		It min. encasement*		prior to TBM a	arrival.			
		ví tali	40.67	vi						
	2831	cy Grouting	-							
				um per dwg. ES-163						
R/T	Code	Resourco Description	Resource Oty/Unit	Production rate	Factor	Resource Uni		Resource Qu		Resourco Co
М	sts	Small tools and supplies			4.05	\$3.00 /		340.8 r		\$1,02
S	jg	Jet Grouting	GC Support		1.05	\$300 /	су	297 3 c	сy	\$891,70
L	lo4+	Loader oper. >4cy (Grp 3)	all support			\$76.74	/mhr	113.6 r	nhr	\$8,71
Ē	1966	Wheel Loader Cat 966/4.8cy				\$93.84 /		113.6 1		\$10,66
Ľ	lab	General Labor (Grp 1)			2	\$61.77 /		227.2		\$14,00
s		Muck disposal (wet / pH)	2831 lcy		_	\$46.49		2831		\$131,62
No.	ltem De	scription		Item Quantity/Unit	Prod	uction rate	Other	lixed time	1	Fotal time
		outing - Retrieval Shaft		2477 cy	200	cy/day			12.4	work days
		manhours	Labor	Equipment		Material		Subcontract		Item Co
		298		\$9,309		\$89 3		\$895,421		\$925,49
		0.120		\$3.76		\$0.36		\$361.49		\$373.6
		Status (Additive)		Work schedule		-	Qlha	ar ST pay	Oth	er QT pay
	1.000	Schedule factor (Normal)	8 hr/shift	1 shift/day	5	day/week	0	hr/shift	0	hr/shift
		ea. Launch Box	Jet grout Height	· · · · ·		Note:				
		If long*		If Excavated Diameter		Jet Grout to b	e comp	leted after sl	haít co	nstr.
		If wide		ft min. encasement*		prior to TBM a	•			
		vf tall	40.67	vf						
		cy Grouting	· _							
		,	* minimu	um dimension to achiev	ve over	all quantity pe	er desig	ner.		
в⁄т	Coda	Resource Description	Resource Qty/Unit	Production rate	Factor	Resourco Uni		Resource Qu	antity	Resource Co
M	sts	Small tools and supplies				\$3.00 /	mhr	297.6 n	nhr	\$89
S	jg	Jet Grouting			1.05	\$30 0 /		2601 d		\$780,25
S		Muck disposal (wet / pH)	2477 lcy GC Support			\$46.49 /	lcy	2477 la	су	\$115,16
	lo4+	Loader oper. >4cy (Grp 3)	ao ouppon			\$76.74 /	mhr	99.20 n	nhr	\$7,6 [°]
L E		Wheel Loader Cat 966/4.8cy				\$93.84 /		99.20 h		\$9,3
					0	\$93.84 / \$61.77 /		198.4 n		ֆ9,3 \$12,2
L	lab	General Labor (Grp 1)			2	401.777		190.4		φ12,2

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4235 Central Subway - 100%-JA.1.xls/Directs v8.6 Printed on 2/28/2011, 11:18 AM. Page 6 of 70

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Jacobs Associates + Engineers/Consultants San Francisco + San Diego + Pasadena + Seatlle + Portland + Boston + New York + Melbourne

Project	Client	Job No.	Estimator	Rev	Computed on
Central Subway - 100% Design Estimate	SFMTA/AECOM	4235.0	TLP/MH	0	02/28/2011
Twin EPB Tunnels, 4th & Harrison to N.Beach, throug	Cross Pa	ssages		10:10 AM	
CYCLE TIME ANALYSES and QUANTITY TAKEOFF					
During to Overside up					

Project Overview

Both TBM Drives start from Fourth St. Portal, mining in a northwesterly direction.

Project Stationing						
Portal		NB	lf	SB	lf	Segment Type
TBM Tunnel Start - Portal		163+53		163+52		
Moscone Start		156+28	725	156+25	726	1
Moscone Stop		152+98	330	152+95	330	2
Cross Passage No. 5/Sump		142+12		142+09		
Union/Market Start		134+71	1828	134+46	1849	1
Union/Market Stop		130+91	380	130+66	380	2
Cross Passage No. 4		125+99		125+74		
Cross Passage No. 3		118 +4 9		118+24		
Cross Passage No. 2				110+74		
ChinaTown Start		107+12	2378	106+88	2378	1
ChinaTown Stop		100+67	645	100+42	645	2
Cross Passage No. 1		98+79		98+ 54		
Retrieval Shaft						
TBM Tunnel End		81+20	1947	81+20	1922	1
Total Length	NB	8233		8231		

2470 LF Franciscan 5763.13 LF Surficial

Portal to Retrieval Southbound Tunne				
Configuration/Takeoff				
Tunnel Length	8231 lf	Tunnel Excavation	12.424 bcy/lf	102,266 bcy
Ring Width / Shove Length	4 lf			
ID Bolted/gasketed segments	214 in < 0	CONTRACT SPECIFIED Inside Area	249.8	sf
Segment thickness	1 1 in	Concrete Vol.	2 cy/lf	
OD Bolted/gasketed segments	236 in			
TBM Brushes	2 in	Tailseal grease	0.05 lb/cir.ft	3.1 lb/lf
TBM Tailshield ID	240 in	Segment Grouting	0.974 cy/lí	8,017 cy
TBM Tailshield Thickness	3 in	Assuming Tail grouting worst cas	e option	
TBM Overcut	1 in	1" allowance on radius for steering	ng, ignore for grout	ing
OD EPBM	248 in			

SB EPBM Cycle	20.67 ft	excavate	d diamet	er				8,233
Cutterhead speed	2 r p	m				_		
Reach	1	2	3	4	5	6		
Length	5,763		2,470				I	
Average Instantaneous ROP	0.75		0.25				in/rev	
Rate of Penetration	7.5		2.5				ít/hr	
Excavate stroke	4.0 ft	stroke	6.0	t/hr averag	je over 2 rea	ches	40.1 mir	l I
Erect initial support	30.0 m	in			-		30.0 mir	ı
Basic Cycle					•••		70.1 mir	۱
Downtime-general	20%						14.1 mir	ı
Advance survey laser delay	30.0 m	in every	200	f			0.6 mir	1
Advance track/utilities delay		in every	32	f			1.9 mir	ı
Add Conveyor Cartridge Delay	120.0 m		600	f			0.8 mir	ı
····· ································	m	in					0.0 mir	1
Sustained cycle							86.7 mir	۱
Sustained advance rale	51 lf.	/day base	don	18 .5 I	mining hrs/d	lay	160.8 day	/
% Delay for burying TBM/Learnir	20% 0	f rate	1% (of reach	8.2 lf/d	lay	7.8 day	/
% Delay for learning curve	50% o	f rate	6% (of reach	20.4 lf/d	lay	9.8 day	/
% Delay for Tight Curves	50% o	f rate	8%	of reach	20.4 lf/d	lay	12.9 day	/
Obstructions (boulders)	d	av					0.0 day	/
Mechanical problems		av					0.0 day	
M Excav. UMS&retr.sh. JG & SP	6.0 d						6.0 day	
BM Excav. MOS JG & SlurryWall	2 d						2.0 day	

CONTRACT NO. 1252 THIRD STREET LIGHT RAIL PROGRAM PHASE 2 CENTRAL BUBWAY TUNNELING

BCHEDULE OF BID PRICES - Addandum No. 6 🛛 🧳

Name of Bidder: Barnard Impregilo Healy Joint Venture

Unit Definition: LS - Lump Sum. CY = Cubic Yardes LP = Linear Feet. CF = Cubic Feet Bid Rem Did Rem Description Quantity Մոն Unit Price Total Amount GENERAL - GE TBM PROCUREMENT AND MOBILIZATION, AND SEGMENT MOULD GE-I LS 00,000 PROCURBMENT GE-2 FIELD MOBILIZATION AND DEMOBILIZATION ιs UTILITY DUMOLITION, SEWER, WATER DISTRIBUTION, AUXILIARY GE-3 1.5 60 WATER SUPPLY SYSTEM, ROAD DEMOLITION, PAVEMENT GB-4 NOT USED . GI-5 NOTUSED CONTRACT WORK FOR WHICH A BID ITEM HAS NOT BEEN GE-6 LS **ESTABLISHED** 300,000 GE-7 REPAIR OF CATEGORY B PIPES ALLOWANCE ALLOWANCE \$300,000 OB-8 ENVIRONMENTAL MITIGATION ALLOWANCE ALLOWANCE \$300,000 OE-9 DISPUTES REVIEW DOARD ALLOWANCE ALLOWANCE . • \$100,000 OB-10 PARTNERING ALLOWANCE ALLOWANCE \$100,000 SOCIALLY/ECONOMICALLY DISADVANTAGED EMPLOYMENT **GB-1**1 ALLOWANC8 \$1,000,000 OPPORTUNITIES ALLOWANCE RELOCATION OF EXISTING LIGHTING CONTROL EQUIPMENT GE-12 ALLOWANCE \$50,000 ALLOWANCE GE-13 TRAFFIC CONTROL - CITY PERSONNEL ALLOWANCE ATLOW ANCI \$740,000 EXCAVATION AND GROUND SUPPORT - ES ES-1 SHEETING, SHORING, AND BRACING LS 000 ES-2 TBM LAUNCH BOX CONSTRUCTION LS OOD. 000 ES-3 GROUND TREATMENT TEM LAUNCH BOX BREAKOLITS 2,831 CΥ つり 200 BS-4 OROUND TREATMENT AT RETRIEVAL SHAFT BREAKOUTS CY 2.477 ς 725 ES-5 GROUND TREATMENT AT CROSS PASSAGE NUMBER 5 3.748 CY 430 10 CONSTRUCTION OF HEADWALLS AT UNION SQUARE/MARKET **E\$-6** LS 00.000 STREET STATION CONSTRUCTION OF HEADWALLS AT MOSCONE STATION ES-7 LS 06,000 ADDITIONAL COSTS OF HAZARDOUS WASTE ALLOWANCE ES-8 ALLOWANCE \$200,000 STRUCTURAL-ST ST-1 CONSTRUCTION OF 4TH STREET PORTAL STRUCTURE ιs 800,000 R2 445,000 ST-2 CONSTRUCTION OF TUNNELS LS ST-3 CONSTRUCTION OF CROSS PASSAGES LS 400,000 ST-4 CONSTRUCTION OF BASE BID PERMANENT RETRIEVAL SHAFT LS 760:000 BUILDING PROTECTION - BP BP--7 PROTECTION AND MONITORING LS 00,000 BP-2 PROTECTION AND MONITORING ALLOWANCE ALLOWANCE \$100,000 BP-3 BLUS STREET AND GREEN STREET TEMPORARY ACCESS SHAFTS 1.5 <u>70, 000</u> BP-4 COMPENSATION GROUT HOLES 20,910 LF 150 **BP-5** COMPENSATION GROUTING 20,90D CF 500 A. TOTAL BASE BID 01

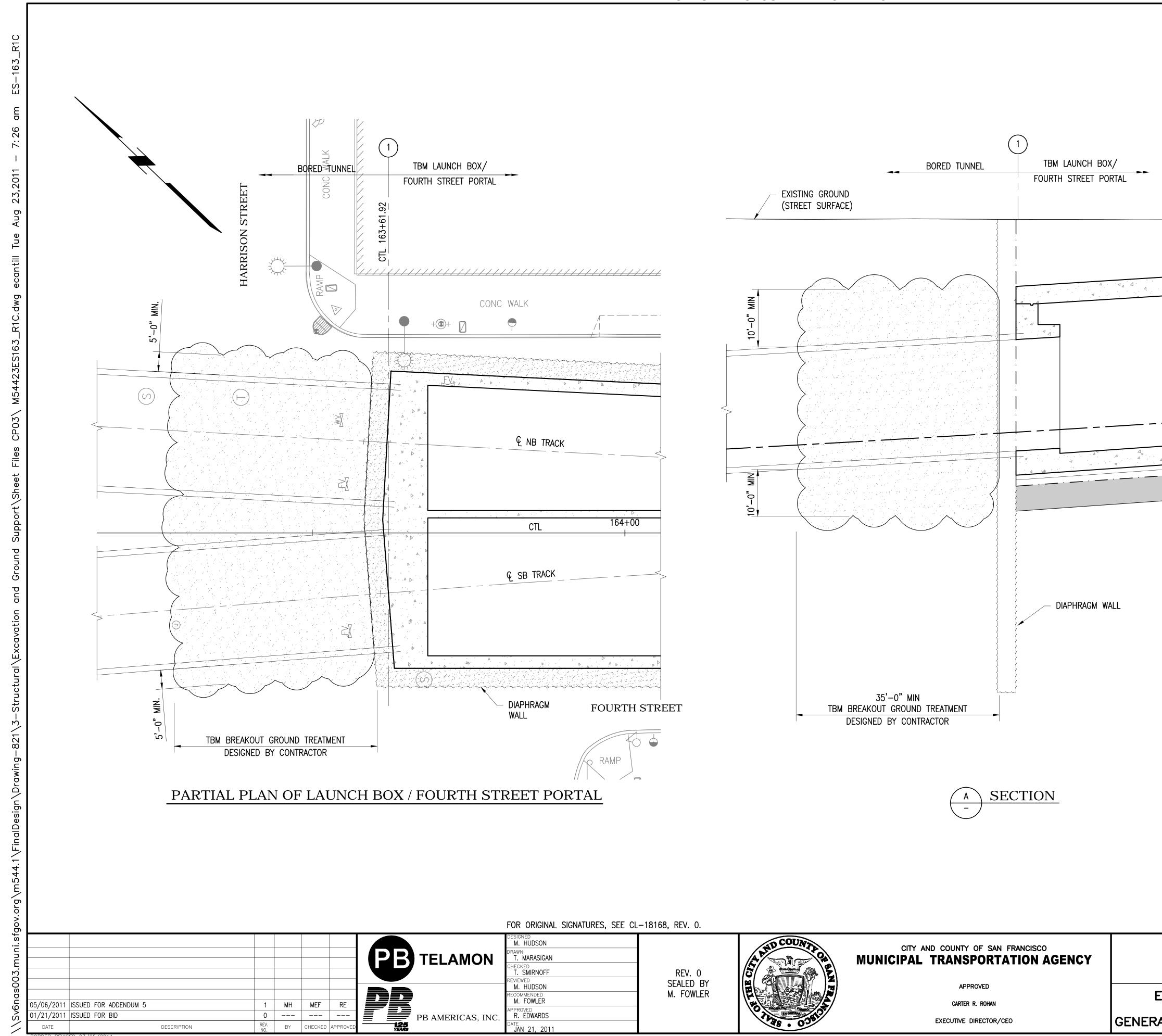
OPTIONAL BID ITEMS	· ·		
ST-OPI RETREVAL SHAFT OFTION (DEDUCT OPTION)	LS	 1	1927,335
GE-OPI OWNER CONTROLLED INSURANCE PROGRAM (DEDUCT OPTION)	1.5	ß	6,202,480

4,1

See Special Provisions, Section SP-1, for Award Procedures

Rev. May 13, 2011 Addandum No. 6

Next Page is 5



WARNING: THIS RECORD CONTAINS SENSITIVE SECURITY INFORMATION THAT IS CONTROLLED UNDER 49 CFR PARTS 15 AND 1520. NO PART OF THE TRANSPORTATION SECURITY ADMINISTRATION OR THE SECRETARY OF TRANSPORTATION. UNAUTHORIZED RELEASE MAY RESULT IN CIVIL PENALTY OF OTHER ACTION.

NOTES:

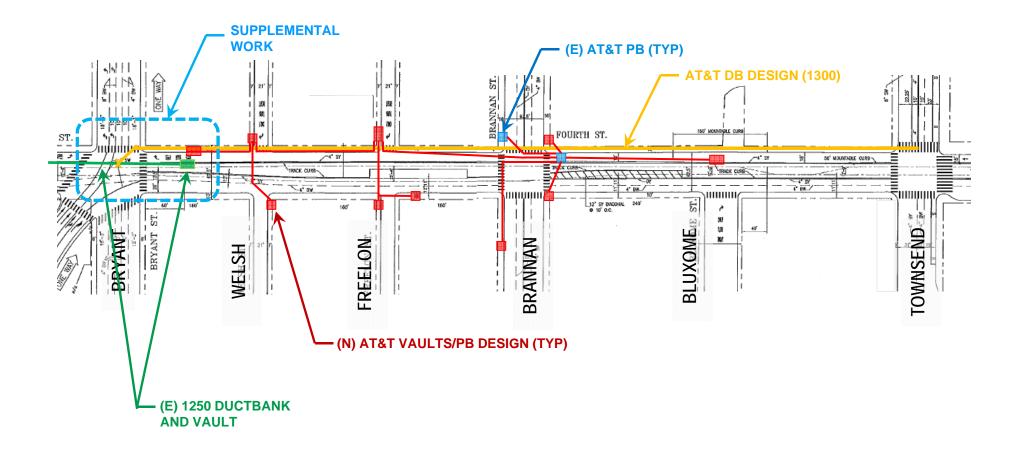
- 1. UTILITY LOCATIONS TO BE VERIFIED BY POTHOLING BEFORE GROUTING.
- 2. SEE UTILITIES DRAWINGS FOR UTILITY DIVERSIONS DURING CONSTRUCTION.
- 3. SEE SPECIFICATIONS FOR RESTRICTIONS ON ROAD OCCUPATION INCLUDING MUNI TROLLEY OPERATION REQUIREMENTS.
- 4. ALL GROUTING SHOWN SHALL BE PERFORMED AND COMPLETED BEFORE START OF TBM TUNNEL. SEE SPECIFICATION.
- 5. MAINTAIN AND PROTECT VEHICULAR AND PEDESTRIAN TRAFFIC AT ALL TIMES DURING DRILLING AND GROUTING.
- 6. IMPLEMENT ENVIRONMENTAL CONTROL TO CONTAIN DRILLING AND GROUT SPOILS AND PROTECT AGAINST SPOIL ENTRY INTO SEWERS, ROADS, WATERCOURSES AND WATERWAYS.
- 7. STAGE WORK TO MINIMIZE ROAD CLOSURES.
- 8. GROUT TO BE DESIGNED BY THE CONTRACTOR. THE CONTRACTOR SHALL DEVELOP THE PROPOSED GROUTING PLANS BASED ON THE CONDITIONS AT THE TBM LAUNCH BOX AND THE REQUIREMENTS SHOWN ON THIS SHEET. THE CONTRACTOR SHALL SUBMIT THE PROPOSED GROUTING PLANS TO ENGINEER FOR REVIEW AND APPROVAL.
- 9. CENTERLINES AND SPRINGLINES SHOWN ARE THE PLANNED OR DESIGN LOCATIONS.
- 10. INSTALL JET GROUTING IN SEQUENCE WITH DIAPHRAGM WALLS BEFORE EXCAVATION BELOW ROAD DECK STARTS.

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4	4.	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	Δ···· · · · ·	4	• •

4' 0 4' 8' SCALE: 1/8"=	12' 16' 20' 1'-0"
CON	FORMED
THIRD STREET LIGHT RAIL PROGRAM PHASE 2 – CENTRAL SUBWAY TUNNELS	CONTRACT NO. 1252 SFMTA CONTROL NO. CL-18168
EXCAVATION AND GROUND SUPPORT TBM LAUNCH BOX AL ARRANGEMENT – GROUND TREATMENT	DRAWING NO. ES-163 SHEET NO. 1

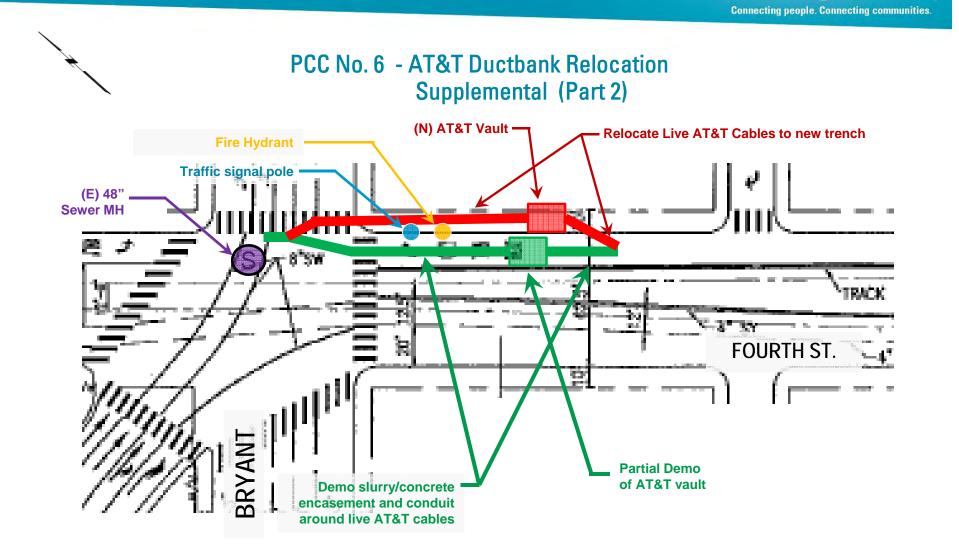


PCC No. 6 - AT&T Ductbank Relocation (Part 1)













central **T**subway

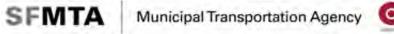
central central

Connecting people. Connecting communities.

Cost Analysis Contract No. 1300 - STS Proposed Contract Change (PCC) - 006

No.	Activity Name	Engineer's Estimate	Contractor Proposal	Abbett Electric Agreed Amount	Final Agreed Amount with Markup (5% Prime, 2.215%B&I)	RE Comment
10	Traffic Control:	\$ 33,861.17	\$ 80,495.35		\$ 35,000.00	Contractor used 2 laborers and 1 flagger full time at regular rate and 1 hour of overtime rate per day for 33 days. Also, charged for 1 safety engineer for 4 hours per day. Very excessive cost. Recommend to use engineer's estimate as a basis for agreed cost.
20	Potholing:	\$ 4,748.25	\$ 26,196.17		\$ 26,000.00	Potholing was done on force account, hence recommend to accept contractor proposal. Contractor agreed to round off amount.
30	Furnish and Install Cast-In-Place PTS69 Manhole (14'x6'x9')	\$ 55,307.59	\$ 74,630.94	\$ 66,000.00	\$ 70,835.00	Contractor priced manhole at both pre-cast and cast-in-plac EE priced it as pre-cast only. Contractor explained that bottom of MH has to be cast-in-place with rebar. Abbett Electric used higher than approved labor rates. Abbett Electric agreed to lower his price to \$66,000, which the RE accepted.
40	Furnish and Install T5 Pullbox (3'x5'x4')	\$ 13,875.04	\$ 14,285.88	\$ 13,000.00	\$ 13,952.35	Difference is minimal. Abbett Electric used higher than approved labor rates. Abbett Electric agreed with \$13,000, which RE accepted.
50	Furnish and Install T3 Pullbox (2.5'x4'x3')	\$ 18,740.51	\$ 18,002.47	\$ 16,000.00	\$ 17,172.12	Difference is minimal. Abbett Electric used higher than approved labor rates. Abbett Electric agreed with \$16,000, which RE accepted.
60	Excavation and Restoration for PTS69 Manhole at 4th/Bluxome	\$ 75,612.36	\$ 59,080.07	\$ 45,000.00	\$ 48,296.59	Engineer estimate overestimated installation and removal or shoring by about \$20,000. Abbett Electric used higher than approved labor rates. Abbett Electric agreed to lower his price to \$45,000, which the RE accepted.
70	Excavation and Restoration for T3 Pullbox in Sidewalk	\$ 11,691.81	\$ 9,718.58	\$ 7,000.00	\$ 7,512.80	Engineer estimate overestimated demo sidewalk and backf Abbett Electric used higher than approved labor rates. Abb Electric agreed to lower his price to \$7,000, which the RE accepted.
80	Trench Excavation and Restoration (2'x4')	\$ 100,684.74	\$ 80,297.67	\$ 60,000.00	\$ 64,395.45	Engineer Estimate overestimated labor hours. Abbett Elect used higher than approved labor rates. Abbett Electric agre to lower his price to \$60,000, which the RE accepted.
90	Install 4" Conduits with Sand Backfill	\$ 19,690.10	\$ 30,732.25	\$ 24,000.00	\$ 25,758.18	Abbett Electric overestimated material cost by about \$3,00 Abbett Electric used higher than approved labor rates. Abb Electric agreed to lower his price to \$24,000, which the RE accepted.
100	Excavation and Restoration for T5 Pullbox in Sidewalk (Credit)	\$ (3,804.94)	\$ (1,919.42)	\$ (2,000.00)	\$ (2,146.52)	Abbett Electric used higher than approved labor rates. Abb Electric agreed to a credit of \$2,000, which the RE accepted
110	Trench Excavation and Restoration (3'x6') (Credit - Sidewalk)	\$ (44,921.04)	\$ (26,275.85)	\$ (21,000.00)	\$ (22,538.41)	Engineer Estimate overestimated the demolition of roadwa excavation and shoring. Abbett Electric underestimated lab hours but used higher than approved labor rates. Abbett Electric agreed to a credit of \$31,000, which the RE accepte
120	Trench Excavation and Restoration (3'x6') (Credit - Street)	\$ (22,073.01)	\$ (17,479.31)	\$ (14,000.00)	\$ (15,025.61)	Engineer Estimate overestimated excavation and shoring. Abbett Electric used higher than approved labor rates. Abb Electric agreed to a credit of \$14,000, which the RE accepte
130	Install 4" Conduits with Slurry Encasement (Credit)	\$ (44,277.11)	\$ (55,580.27)	\$ (41,000.00)	\$ (44,003.56)	Engineer Estimate overestimated labor hours to install conduits. Abbett Electric used higher than approved labor rates resulting in overestimated credit. Abbett Electric agre to a credit of \$31,000, which the RE accepted.
	Subtotal (Part I):	\$ 219,135.46	\$ 292,184.51		\$ 225,208.40	Additional Work (Part I) = \$308,922.48. Credit (Part I) = \$83,714.09

	Total (Part I and Part II):	\$ 784,555.46	\$ 1,137,475.51	\$ 625,208.40	
140	Supplemental Work (Part II)	\$ 565,420.00	\$ 845,291.00	\$ 400,000.00	Proposal is from Synergy. RE does not agree with many of the scope included in Synergy's proposal. RE recommends to proceed with supplemental work on force account based on adjusted engineer's estimate. Traffic control equipment in the engineer's estimate used daily rate for a duration of 64 days. This can be reduced by simply applying monthly rate. Recommend to adjust engineer estimate down to \$400,000 and to be used as a Not-to-Exceed amount for force account work.





 821 Howard Street 415 701 5262 Phone San Francisco, Ca 94103 415 701 5222 Fax

PCC 6 Supplemental Work – Justification for Proceeding on Force Account

- There is a big uncertainty on how much is concrete encasement and slurry encasement of AT&T ductbank to be chipped. Concrete encasement is required on conduit bends and conduit bends are dictated by field condition, which is not captured in as-built. This uncertainly affects production rate and therefore a lump sum agreement could not be achieved.
- AT&T is exploring to hire its own subcontractor to chip the ductbank, demo conduits and transfer cables to new trench. If successful in hiring a subcontractor, these scope will be eliminated from STS contract.
- 3. The scope of work included in Synergy's proposal contains contract work and scope already included in Part I of the PCC. Unless Synergy's proposal is cleaned up to eliminate these scope, RE is not in position to negotiate. In addition, Synergy labor and equipment costs for the valid change order work are extremely high, which makes negotiation very difficult. This work is very critical to project completion and therefore needs to move forward very quickly.
- 4. Removal and replacement of AWSS fire hydrant is part of the supplemental scope. However, this work may not be necessary if enough slack in AT&T cables can be achieved to swing over the top of AWSS hydrant. The amount of slack in cables could not be determined until cables are exposed.
- 5. Engineer Estimate is \$565,420. RE believes traffic control, excavation, demo and transferring of cables are overestimated. RE believes a Not-To-Exceed amount of \$400,000 would suffice to fund the supplemental work.

Tutor Perini Corporation 530 Bush St, Suite 302 San Francisco, CA 94108 Tel: 415/638-6052



SFMTA - 181

6/19/2014

S. 1

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SF Municipal Transportation Agency 821 Howard Street 2nd Floor San Francisco, CA 94103 Attn: Richard Redmond

Reference: Third Street Light Rail Program Phase 2 – Central Subway Stations, Surface, Track and Systems, Contract No. 1300, TPC 10176000

Subject: Proposed Contract Change (PCC#006 Supplemental) – Proposed Scope and Cost – STS – AT&T Ductbank Design Changes

Dear Mr. Redmond,

In response to SFMTA's request for pricing for PCC#006 Supplemental For Relocation of Additional AT&T & MUNI Ductbank as described in your Engineers Estimate for PCC No 5 Estimate (STS) Supplemental Scope of Work, Tutor Perini Corporation (TPC) provides herewith a lump sum cost proposal for this Proposed Contract Change in the (additive/deductive) amount of \$845,291.00 (Fight Hundred Forty Five Thousand Two Hundred Ninety One and 00/100 Dollars) per the following scope:

- Includes Abbett Electric additional costs for relocating AT&T and MUNI ductbanks per the PCC#006 (STS) Supplemental Engineer Estimate Template Items 10 through 80 which has a net add of 13 weeks of work based on 5 days/week and 8 hours/day.
- Includes TPC additional costs for additional sound and seismic monitoring and for safety
 engineer to support Abbett Electric for their extra work noted above.
- Excludes any work and charges not specifically included in attached proposal such as delay impact costs.

In accordance with the above and contract provisions, please provide a Contract Modification to us promptly for the additional costs so that further delays and payment for this extra work may be mitigated. Although there is currently some float in our baseline schedule where the early start date is indicated as April 12, 2014, it won't be long before the 6 additional weeks from the PCC#006 start date and the non-concurrent 13 additional weeks from this PCC#006 Supplemental impact the schedule and cause a delay. A time impact analysis (TIA) will be provided once the extent of the extra work scope is finalized and the baseline schedule is approved. Please expedite your response.

If you have any questions, please contact the undersigned at 415-638-6052.

Respectfully, Tutor Perinl Corporation

Patricle Jennings Project Manager

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cc: File, 10-2.0017

Tutor Perini Corporation

CCO Scope and Cost Analysis

SF Municipal Transportation Agency Third Street Light Rall Program Phase 2 Central Subway Stations, Surface, Track and Systems Contract No. 1300, TPC 10176000

PCC#006 Supplemental STS - AT&T Ductbank Design Changes

Index	Change Item	item No.	Details	aics	Total	Value
1			Relocate MUNI Ductbank to Sidewalk at 4th and Bryant Streets		5	141,935
2			Relocate AT&T Ductbank to Sidewalk at 4th and Bryant Streets		\$	699,599
3			Additional Noise & Seismic Monitoring		\$	3,756
	13	1000	TOTAL.		\$	845,291

TUTOR PERMI CORPORATION

SF Municipal Transportation Agency Third Street Light Real Program Phase 2 Central Subway Stations, Burtana, Track and Systema Contract No. 1300, TPC 10178000 (415) 638-6052

PCC#0068 73000017 Proposal Sheet

Year 2014 Edition

DESCRIPTION

PCC#906 Supplemental STS - AT&T Ductbank Deelgn Changes

RFCs included: EXPIRATION DATE: 5 days from receipt Warranties, Rebardion Witholding, Impacts to Miniority Gosts, and CCEP Impacts Preservation of Property Casts Unknown at this Time

RFts included:

Submittals Included:

TEM			LAIT		EQUIPALIBIT		SPECIALISY LINEY	NICONTRACT	TOTAL,	TOTAL	TOTAL	TOTAL	TOTAL	TOT	
NÇ,	ITEM DESCRIPTION			RATE	BALTS	RATE		RATE	DUCTLANCE	alter California	DIRECT MATERIAL	SPECIAL INT	TREAT AUGORITHAN		_
	HECAP PROM MICHIG BRIET								46,574.18	\$ 5,194,80		\$0.00	\$ 730,901.44	\$ 787	2,870
	Dumpeter Pulls	_	TA											5	
	Dust Control		1.											\$	
	Engineering (#100/hr = 75/hr W/25%mu below)		HER.											\$	
	Faid Design		Hint											\$.	,
	First Aid & Safety April		1018											\$	
	Freisit Cost	-	L in 1										ł	\$	
	Hervy Duty Scaffold		EA											5	
	Install / Remove / Relocate Temporary Stairs				_		1							\$	
	Management Trics to Field													\$	
	Miss, & Comparisables		1.											£	
	Mac, & Fuel Succharge													\$	
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	Parmite		E.											8	
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	CONTRACTOR OVERHEAD & PROFIT-ON EQUIPMENT				\$ 5,194.80					\$ 779.22					77
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Phone (415) 864-7500 Contractor's California License No. 104855, C 10-A

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COMMERCIAL INDUSTRIAL

ABBETT ELECTRIC CORPORATION

CONTRACTORS 1850 Bryant Street San Francisco, California 94110

June 13, 2014

Tutor-Parini Corporation Attention: Gary Elganson Direct: (415) 638-6034 Cell: (310) 505-8420 SFMTA Central Subway Project 530 Bush Street San Francisco, Ca. 94106

Reference: STS Supplemental P.C.C. No. 6 Proposal

Subject: AT&T Ductbank Relocation 4th and Bryant Street

Attention: Gary Elgenson

Abbett Electric is pleased to provide you with the following quotation proposal for (STS) PCC No. 6 Supplemental for relocation of the existing AT&T Ductbank and Muni Ductbank at 4th and Bryant Street. The proposal is broken out by separating the Muni Ductbank (SFMTA) from the AT&T Ductbank work (AT&T).

Enclosed within Abbett Electric's quotation is our Subcontractor's, Synergy Project Management, Inc. and Valverde Construction, Inc.'s proposals. Under the proposal for the Muni Ductbank (SFMTA work) includes both Abbett Electric's contract work (Muni cable removal) and Synergy's costs that total \$75,548.74.

Under the proposal for the AT&T Ductbank (AT&T work) includes Abbett Electric's work for temporary traffic signal, Valverde's work for relocation of AWSS Hydrant and Synergy's work for relocation of AT&T Ductbank that total \$651,852.70.

Sincerely, Abbett Electric Corporation

B. Abbett

ABBETT ELECTRIC CORPORATION RELOCATE MUNI DUCTBANK TO SIDEWALK AT 4TH AND BRYANT STREETS CENTRAL SUBWAY (STS) PCC-006 SUPPLEMENTAL

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COST SUMMARY	DIRECT COST SUBTOTAL	OVERH	EAD & PROFIT	TOTAL
LABOR	\$24,521.84	15%	\$3,678.28	\$28,200.12
MATERIALS	\$13,590.28	15%	\$2,038.54	\$15,628.82
EQUIPMENT	\$23,143.26	15%	\$3,471.49	\$26,614.75
SUBTOTAL	\$61,255.38			\$70,443.69
BONDS & INSURANCE	\$70,443.69	2.14%	\$1,507.49	\$1,507.49
SYNERGY TOTAL			-	\$71,951.18
ABBETT ELECTRIC CORPORATION MARK-UP		5%		\$3,597.58
TOTAL			-	\$75,548.74

NOTE: MUNI CABLE REMOVAL BY ABBETT ELECTRIC CORPORATION (Contract Work)

COST SUMMARY	DIRECT COST SUBTOTAL	OVERHE	AD & PROFIT	TOTAL
LABOR	\$224,289.92	15%	\$33,644.99	\$257,944.91
MATERIALS	\$ 85 ,405 . 97	15%	\$9,810.90	\$75,218.87
EQUIPMENT	\$216,354.34	1 5%	\$32,453.15	\$248,807.49
VENDORS	\$3,500.00	5%	\$175.00	\$3,675.00
SUBTOTAL	\$509, 56 0.23			\$585,644.2 8
BONDS & INSURANCE	\$585,644.26	2.14%	\$12,532.79	\$12,532.79
SYNERGY TOTAL				\$598,177.05
ABBETT ELECTRIC CORPORATION MARK-UP		5%		\$29,908.85
VALVERDE TOTAL (AWSS Hydnant)	\$17,058.00	5%	\$852,90	\$17,910.90
ABBETT ELECTRIC (TEMP TRAFFIC SIGNAL)				\$5,855.90
TOTAL				\$651,852.70
6/13/2014				

RELOCATE AT&T DUCTBANK TO SIDEWALK AT 4TH AND BRYANT STREETS DELETE AT&T MANHOLE (PCC 006) AND 12-4" AT&T CONDUITS (CONTRACT WORK)

VALVERDE CONSTRUCTION, INC. Ommani Engineering Contractors License No. 276469 10918 Shoemaker Ave. Senta Fe Springs, California 90670 Tel (562) 906-1826 Fax (562) 906-1918

June 13, 2014

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Abbett Electric 1850 Bryant Street San Francisco, CA, 94110

Attention: Jeff Abbeit

Reference: Phase 2 Central Subway Project - Contract 1300

Subject:

Dear Jeff;

Valverde Construction, Inc. hereby submits its price to remove and re-install the AWSS fire hydrant at 4th and Bryant. Valverde Construction's cost estimate to perform the work is:

STS Remove & Replace AWSS Fire Hydrani @ 4* and Bryant



Attached is a cost breakdown to substantiate the price above. This work includes sawcutting & excavation, removal & reinstallation of existing hydrast only, thrust block and backfill.

Price excludes Cal Trans closures, night work, permanent street & sidewalk restoration, lead joints, hydrant lateral removal & replacement, and supply of new hydrant, lateral pipe & fittings/tie rod assembly.

The fire hydrant is assumed to be connected to recently installed DIP with MJ connections, not cast iron pipe. If the water department intends to pressure test the reinstallation, please add \$1,500.00 to the price above.

Schedule impact: 3days

Pieses feel free to contact me with any questions you may have.

Sincerely, Valverie Construction, Inc.

 ${oldsymbol{arsigma}}$ Marcus Gomez **Project Manager**

Remove and reinstall FH

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Labor	Foremen	68	1		632.56	3	5	1,697.68			
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	Operator	82	-			3	š	3,836.88			
	Laborer .	68	3	•	426.32	3		3,030.00	s	7,399.44	
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Equipmen	nt					•	-				
	Job truck	68	1	\$	263.20	3	\$	769,60			
	Beckhoe	68	1	\$	447 <u>.</u> 44	3	ş	1,342.32			
	Breaker	e #	1	\$	143.52	1	\$	143.52			
	Dump truck rental	CE	1	5	760.00	1	\$	760,00			
	Traffic Control	65	1	ŝ	150.00	3	5	450.00			
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								Subtotal:	\$	13,628.84	\frown

Markup: \$ 2,029.33 Total: \$ 15,668.17

Change Order Request

6/9/2014

Synergy Project Management, Inc.

30 Grant Avenue, Suite 300 San Francisco, CA 94108 Phone (415) 467-3000 Fax (415) 467-3001 www.SynergyPM.com



<u>.lob:</u>	1300	<u>Date:</u>	June 9. 2014
COR Title:	Relocate ATT Vault to Sidewalk at 4th and Br	ryant	
	Change Order Requ	est No. 1r2	
Cost Summery	Direct Cost Subiotal Overhead & Profit		Total
Labor	\$248.821.76 15%	\$37,323,26	\$286,145.02

Labor	\$248,821.76	15%	\$37,323.26	\$286,145.02
Materials	* \$78,996.25	15%	\$11,849 ,44	\$90,845.68
Equipment	\$239,497.60	15%	\$35,924.64	\$275,422.24
Unit priced items	\$0.00	0%	\$0.00	\$0.00
Vendors	\$3,500.00	5%	\$175.00	\$3,575.00
Additional Overhead	\$0.00	0.0%	\$0,00	\$0.00
Subtotal	\$570,816.61			\$656,097.95
Bonds & Insurance	\$656,087.95	2.14%	\$14,040.28	\$14,040.28
Total				\$670,128.23
Time Extension Reque	sted (in working days):			TED

1. Spec. Reference:	General Provisions	
2. Drawing Reference:	ATT Drawings Dated 12/	13/13
3. What (Description):	trench in sidewalk, Move	amo concrete encasement on X20 existing ATT Conduit, Excevate new live ATT Cables into new trench in aldewalk, Install new MUN/ duct bank, Conduit, Slurry encase, backfill, street base, Install new aldewalk. See Labor a COR Breakdown tab.
4. Where (Location):	4th and Bryant	
5. Exclusions/Conditions	Permits	Adjusting utilities crossing trench shall be paid on FA if needed
	Restrooms	Underplaning if needed TBD by Soil Engineer
	Progress Prnts.	SWIPP
	No retention	Traffic Plans (Traffic Control is included but not the Plans)
	QC Plans	Police / PCO

Prepared By Synergy Estimator

Lebor and Material Detail

Synergy Project Management, Inc.

Changa Order Request 6/9/2014

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Labor and Material Detail

Syntergy Project Management, Inc.

Chairge Order Request 6/9/2014

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Dump Fees			30.00		\$ 400.00	\$ 12,000.00
Sluny			60.00	CY	\$ 130.00	
Import.Sand				LD	- \$- 250.00	
ATT Rebar			1.00	ى	\$ 1,500.00	
ATT-Base Concrete			9.00	CY	\$ 150.00	
ATT Vault				کا	\$ 19,500.00	
Concrete for Duct bank Terminatio	n		9.00	CY	\$ 150.00	
Veult-Rocking			-	LS -	\$ 1,000.00	
Vault Ricor Rings			-	EA	\$ 200,00	\$ -
MUNI HOPE Conduits 4"		-	360.00		\$ 15.00	\$ 5,400.00
MUNI HDPE Conduits - 2" - 1			360.00	LF	\$ 8.00	
ATT Split Duct - 4" PVC		-	1,560.00	LF	\$ 12.00	
SFDT 4" PVC Conduits			120.00	ĿF	\$ 8.00	
Curb Concrete			6.00	<u> </u>	\$ 150.00	
Sidowalk Concrete			18.00	CY	\$ 150.00	\$ -2,700,00
Handicap Ramp Concrete			4.00	CY	\$ 180.00	\$ 720.00
nverted Domes for Ramps			4.00	EA	\$ 400.00	\$ 1,600.00
Street Base for Ex. ATT trench			15.00	CY	\$ 150.00	\$
Street Base for New ATT trench			5.00	CY	\$ 150.00	
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otal		1				\$ 3,500.00

		A	T&T Form B			
Date:	7/2/2014					
Item		SF	MTA/Tutor	F	AT&T Form B	
No.	Description	Con	tract Amount		Amount	Comment
1	PCC 6 Part I - vaults & DBs (extra work)	\$	308,922.48	\$	308,922.48	Agreed amount
2	PCC 6 Part I - vaults & DBs (credit work)	\$	(83,714.09)	\$	-	Agreed amount
3	PCC 6 Part II - cable shift (supplemental extra work)	\$	400,000.00	\$	400,000.00	Actual amount for reimbursement to be tracked on force account.
4	AT&T Contract work (for STS package)	\$	100,000.00	\$	100,000.00	Amount as placeholder only. Final amount TBD.
5	Future AT&T extra work	\$	50,000.00	\$	50,000.00	Amount as placeholder only. Final amount TBD.
	Total:	\$	775,208.39	\$	858,922.48	Final amount TBD



Connecting people. Connecting communities.

CMB Meeting Minutes #149

DATE:	December 10, 2013
MEETING DATE:	November 20, 2013
LOCATION:	821 Howard St, Main Conference Room
TIME:	3:00 PM
ATTENDEES:	J Funghi (JF), A. Hoe (AH), R. Redmond, (RR), M. Benson (MB), M. Acosta (MA), S. Pong (SP), T. DePooter (TDP), B. Kelleher (BK), S. Jefferis (SJ), E. Stassevitch (ES), M. Latch (ML), B. Ward (BW), B. Lebovitz (BL), L. Zurinaga (LZ)
COPIES TO:	Attendees: S. Farhangi (SF), M. Henry (MH), J. Park (JP), K. Shah (KS), V. Chow (VC), J. Xia (JX), S. Espinal (SE), R. Hansen (RH), R. Nguyen (RN), J. Wang (JW), S. Wilson (SW), D. Kuehn (DK) File No. M544.1.5.0890
REFERENCE	Project No. M544.1, Contract No. 149 Task 1-8.02
SUBJECT:	Configuration Management Board Meeting # 149 – Rev. No. 0

RECORD OF MEETING (Italicized text indicates status update of open items

ITEM #	DISCUSSION	ACTION BY DUE DATE
2- 11/13/13	1300 – Pedestrian Monitors – T. DePooter requested approval by the Board to proceed with authorization of the Contractor to furnish pedestrian monitors to assist pedestrians in the construction area. The Board confirmed the intent of the Special Provision 22 was to have the Contractor work thru the City Build/First Source Referral Program to hire the pedestrian monitors. The letter will be revised to instruct the Contractor to proceed with hiring two people during a set duration of time until directed otherwise by SFMTA. Additional discussion took place concerning the use of police versus PCOs for traffic control. A meeting will be setup with DT and the RE's to confirm the use of Police and PCO for traffic control. Status <i>11/20: The Contractor responded to the letter stating they believe this is a union position. The Board reiterated the direction to the Contractor to utilize the Community-Based Organization (CBO) program to provide the services of the two monitors.</i>	
1-	1300 – M. Acosta presented for approval PCC 0006 - AT&T Relocation Additional Work - As part of the sewer work for CN1256 relocation of existing utilities, AT&T has indicated the need for additional work (potholing) not anticipated in the original contract. Direction was given to the RE to verify in writing, AT&T's agreement to pay for the additional work. The CMB was in agreement with sending a request for a cost proposal to the Contractor.	
2-	1300 – T. DePooter presented for information a draft PCC - CTS Traffic Control for PG&E at the east side of the intersection at Powell and Washington Streets. Work was not anticipated in original contract to access vault 1087P and 726. Direction was given to the RE to verify in writing PG&E's agreement to pay for the additional work. The CMB was in agreement with sending a request for a cost proposal to the Contractor.	





Job Number: CN1300 Project Number: CN1300

Status	NDS Number (Status)	Date	Packa	Title	Reason For Change	Status	BIC Contact	Value (\$)	Remarks
Demed	00074	11-Jun-14	UMS	UMS Powell St. Elevator Site Hazmat	Unforeseen Condition	Denied	Patrick Jennings	15,900.00	CMOD #1 Initiated the design for the elevator at the west end of Powell St. Station. Several cut sheets have been submitted to SFMTA, but none even approach the minimum threshold of what would be considered as a conceptual design as defined in the Specifications. This cost proposal was rejected via Letter No. 219. The proposal could not be evaluated since the conceptual design had not been submitted therefore it was impossible to contemplate the scope of the work and the full extent of the required abatement activities. Ulitimately, this will have to be negotiated when the final conceptual design is approved and the scope of work established. None of the existing building materials were sampled or tested before the contract went out to bid. Tutor has issued a letter No. 177 (in response No. 219) stating that their conceptual design for the elevator is forthcoming.
	00073	9-Jun-14	UMS	UMS NDSC #10 Becho Obstruct E Pile	Unforeseen Condition	Denied	Patrick Jennings	9,000.00	Tutor/Becho failed to prove that the reinfoced concrete they encountered was unexpected or unforeseen. Becho (subcontractor) states that neither the geotechnical baseline nor the contract drawings show the reinfoced concrete. SFTMA drawing ES-102 shows soldier beams and a bulkhead were to be demolished and removed. NDSC was denied via Letter 212.
	00072	9-Jun-14	UMS	UMS NDSC #9 Becho Obstruct E Pile	Unforeseen Condition	Denied	Patrick Jennings	8,000.00	Tutor/Becho failed to prove that the reinfoced concrete they encountered was unexpected or unforeseen. Becho (subcontractor) states that neither the geotechnical baseline nor the contract drawings show the reinfoced concrete. SFTMA drawing ES-102 shows soldier beams and a bulkhead were to be demolished and removed. NDSC was denied via Letter 211.
	00063	30-Apr-14	UMS	UMS NDSC Hydrant N. of Geary	Unforeseen Condition	Denied		25,000.00	Tutor's argues that the plans were not clear that the hydrant (& its associated lateral) had to be coordinated with the Type E Pile installation. This arguement is unfounded. The drawings clearly show the hydrant lateral running over the southern portion of Pile E85, and the UD drawings note that the lateral must remain in service and must be phased/coordinated with pile installation. NDSC was denied via Letter 174.
	00060	28-Apr-14	UMS	UMS W Shape Wale Supports	Other	Denied		100,000.00	Tutor maintains that the Response to Bidder's questions: "W Shape is only a temporary support for the wale installation, and is to be designed by the Contractor to suit their means and methods" was contractual direction to design a small (and impermanent) W Shape. They contend that during the design meeting "9/17/13" the designer's clarification that the W Shape was the only means of vertical permanent vertical support is a change to the Contract. The Contractor maintains that their engineering done so far for the permanent W Shape reveals a cost that is greater than what would be required for temporary W Shapes. SFTMA cited spec sections and drawing notes which require the Contractor to design the connections. Since the W Shape wale support is a part of the Contractor's scope of work. Advanced notice of COR was denied thru (SFMTA) Letter 171. TPC submitted (TPC) Letter 94 as advanced notification of pending COR for the increase in Shape of the W sections.
	00059	25-Apr-14	UMS	UMS NDSC #8 Becho Obstruct C Pile	Unforeseen Condition	Denied		11,000.00	Tutor/Becho failed to prove that the steel pipe/casing they encountered was to be unexpected or unforeseen. Becho (subcontractor) states that it had been agreed that all utilities would be relocated before start of work by the 1252 Contractor. SFTMA had made no such representation in the 1300 contract. NDSC was denied via Letter 170.

Job Number: CN1300 Project Number: CN1300

Status	Number	Date	Packa	Title	Reason For Change	Status	BIC Contact	Value (\$)	Remarks
	00058	24-Apr-14	UMS	UMS ND TCP at O'Farrell Pile Macys	Other	Denied		10,000.00	Tutor maintains that they are not required to provide 6' sidewalk access anywhere in the vicinity of Macy's Mens Store, since the north edge of the pile line is about 1'-6" from the (south) face of Macy's Mens building. The sidewalk access is a requirement of the traffic drawings. The Traffic Engineer laid out dimensioning showing that it would be possible to place a 6' walkway along the south side of the construction laydown area (within the traffic lane). Tutor denies that this is possible because this reduces the width of their fencing, constricting their laydown area's width, and will not be wide enough to fit their equipment. SFMTA also noted that the Macy's Canopy Removal and Storage submittal had not been approved yet. The piles cannot be installed until the canopy is removed. Non-approval of the canopy precludes Tutor from beginning work in this area. NDSC was denied on Letter 166.
	00057	24-Apr-14	UMS	UMS NDSC Inadequate CDF	Unforeseen Condition	Denied		15,000.00	Tutor has assumed CDF was placed under the utility relocation contract as a self-supporting back fill which would not require shoring for later work (UMS). Tutor claims that the CDF not being used 100% in several locations requires them to install shoring. They had gone from the as-builts which showed CDF 100% supporting the existing sidewalk. Shoring is in fact shown on the ES drawings as being necessary. NDSC was denied on Letter 163.
	00056	24-Apr-14	UMS	UMS NDSC #7 Becho Obstruct C Pile	Unforeseen Condition	Denied		3,500.00	Tutor/Becho have not presented findings with regard to the metal or steel obstructions being encountered being inconsistent with the language in contract that they are responsible for abandoned utility facilities. NDSC was denied on Letter 160.
	00055	24-Apr-14	UMS	UMS ND & COR 3 AWSS Hydrant	Unforeseen Condition	Denied		8,353.00	Tutor maintains that the AWSS drawings only show the AWSS lateral and not the hydrant to be removed. They maintain that the lack of note for removal of the AWSS hydrant means that it is extra. The PD drawings show the AWSS Hydrant to be removed. ND was denied on Letter 103 for CO for the Work to remove the AWSS hydrant at the Northwest corner of Stockton & O'Farrell. Tutor/Valverde resubmitted request. It was denied a second time via Letter 126. An issue "resolution ladder" meeting was held between the RE and Valverde. The RE ONLY agreed to recommend payment for just rigging, hoisting, and trucking the hydrant and associated riser. The draft letter formally offering this recommendation is being circulated for review.
	00054	24-Apr-14	UMS	UMS NDSC Imprope TrafficSignal Line	Unforeseen Condition	Denied		3,500.00	Tutor/Valverde ran their sawcut blade too deep and hit/cut a traffic signal conduit and feeder that was about 8" to 12" below the underside of the slab. The traffic signals were knocked out of service, and crews had to wait until the signa shop was on site to perform the repairs. Claiming for compensation to repair and restore the signals due to their non-code compliant depth NDSC was denied on Letter 168. Traffic Signal Restoration Protocol provided via Letter 168.
	00053	24-Apr-14	UMS	UMS NDSC #6 Becho Obstruct C Pile	Unforeseen Condition	Denied		3,500.00	Tutor/Becho failed to prove that the abandoned utilities they encountered were unexpected or unforeseen. It was indicated in the specifications that they were expected to encounter abandoned utilities. NDSC was denied on Letter 141. Tutor resubmitted with supplemental information. NDSC denied a second time via Letter 145.
	00052	24-Apr-14	UMS	UMS NDSC (e) Waterline Depth	Unforeseen Condition	Denied		2,500.00	Tutor/Valverde used a saw cut to cut deeper than the 8" thick street (= 2" A/C wear surface + 6" Concrete Base). The saw cut blade cut through the water line causing water leak out. It is improper to use a sawcut thicker than the depth of the street. NDSC was denied on Letter 139.
	00051	24-Apr-14	UMS	UMS NDSC #5 Becho Obstruct C Pile	Unforeseen Condition	Denied		3,500.00	Tutor/Becho failed to prove that the abandoned utilities and concrete they encountered were unexpected or unforeseen. Also failed to study the Geotech report which stated that the wood, brick and concrete objects found in this strata were to be expected when performing subsurface work, or the contract drawings which show the concrete walls. NDSC was denied on Letter 131.

BIC Contact

Value (\$)

Remarks

Reason For Change Status

Tutor/Becho failed to prove that the abandoned utilities they encountered were unexpected or unforeseen. Becho (subcontractor) states that it had been

Job Number: CN1300 Project Number: CN1300

Status Number Date

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New Item (Status) 00077

Packa Title

)	24-Apr-14	UMS	UMS NDSC #4 Becho Obstruct C Pile	Unforeseen Condition	Denied		3,500.00	agreed that all utilities would be relocated before start of work. SFTMA had made no such representation in the 1300 contract. NDSC was denied on Letter 128.
9	24-Apr-14	UMS	UMS NDSC #3 Becho C Pile Obstruct	Unforeseen Condition	Denied		3,500.00	Tutor/Becho failed to prove that the abandoned utilities they encountered were unexpected or unforeseen. Becho (subcontractor) states that it had been agreed that all utilities would be relocated before start of work. SFTMA had made no such representation in the 1300 contract. NDSC was denied on Letter 127.
7	24-Apr-14	UMS	UMS NDSC #2 Becho BasemntWall Obst	Unforeseen Condition	Denied		3,500.00	Tutor/Becho failed to prove that the sub-basement walls they encountered were unexpected or unforeseen. They are shown on the ES drawings, which also require that the existing bldg components be removed prior to pile wall installation. NDSC was denied on Letter 91. Tutor resubmitted. NDSC denied a second time via Letter 100.
5	24-Apr-14	UMS	UMS NDSC #1 Becho Unknown Obstruct	Unforeseen Condition	Denied		3,500.00	Tutor/Becho failed to prove that the sub-basement walls and footings they encountered were unexpected or unforeseen. NDSC was denied on Letter 90. Tutor resubmitted. NDSC denied a second time via Letter 99.
\$	24-Apr-14	UMS	UMS ND Becho Pile Concrete Mix	Other	Denied		0.00	Tutor/Becho did not provide any evidence or logic to substantiate the basis for the delay. The CPM baseline schedule was not consistent with Becho's claim that the denial of their concrete mix design (due to permeability not meeting spec requirements). ND was denied on Letter 116. Tutor encountered the structural basement roof left over from Contract 1251, and claim that it is at a the mean. The suprant dama is directly a suprant dama is directly a suprant dama is directly and the structural basement roof left over from Contract 1251,
2	24-Apr-14	UMS	UMS NDSC Struc Concrete Beams Pile	Unforeseen Condition	Denied		50,000.00	and claim that it is not shown on the drawings. The pavement demo indicate notes "B&9" that structural concrete and steel were to be demolished. The 1251 reference drawings show the extent of the work. NDSC was denied on Letter 71. However, the cost could potentially be submitted as a claim.
3	22-Apr-14	UMS	UMS BART Entry Hazmat Abatement	Unforeseen Condition	Denied	Patrick Jennings	86,189.00	Tutor maintains that the existing hazmat were not disclosed at bid and that they are a differing site condition and extra work. They present their hazmat survey to substantiate their position. Letter 176 cites the spec references to the environmental reports and provides copes of the environmental reports findings, which are consistent with the Contractor's hazmat findings. Allowance Item No. 5 states that payment will not be made for work identified as containing hazardous materials in the specifications. The letter also points out that the Contractor waited until 7 months after their hazmat survey was completed before submitting their NDSC (which is required 24 hours after they were aware of the supposed problem.) NDSC and COR were denied via Letter 176.
Ļ	18-Apr-14	CTS	CTS-DSC Unanticipated Vault Obstruc		Denied	Patrick Jennings	0.00	MTA directed to not expend resources.
3	18-Apr-14		CTS-DSCBrick Requiring Hand Work		Denied	Patrick Jennings	0.00	MTA denied
; IIIe)	17-Apr-14	CTS	CTS COR 6 Sewer Line Demo at Washin		Denied	Patrick Jennings	0.00	MTA denied TPC's COR.
7	13-Jun-14	STS	Relocation of Comm & Elec Cabinets	Errors and Omissions	New Item		0.00	Original location on Freelon, east of 4th Street does not meet DPW-BSM sidewalk space requirement. New location is Brannan, east of 4th Street. This was present to CMB on Sept. 4, 2013. Engineer estimated for \$6607.
6	13-Jun-14	STS	Additional manholes for 78" sewer	Private Utilities	New Item		0.00	SFPUC requested 11 additional manholes to be included with the 78" sewer design. Per Manfred Wong's 6/12/14 email, SFPUC will pay for the additional manholes. ROM: \$5k/manhole for 11 manholes = \$55,000. Eng. estimate forthcoming.
)			CTS-PG&E Scope Change at Exit Hatch	Private Utilities	New Item		0.00	Drafting PCC to present to CMB
3	29-May-14	CTS	CTS-DSC Hard Rock at Slurry Wall	Unforeseen Condition	New Item		0.00	Tracking work in field.
6	7-May-14	STS	STS-Subsurface structural wall at S	Unforeseen Condition	New Item		50,000.00	Subsurface structural wall at SW 4th/Brannan was discovered during potholing. Expected to become DSC during permanent installation. Issue to be addressed when more information becomes available during permanent installation. Cost shown is a placeholder.
					Page 3 of 8	3		

CMB Trends/Proposals/Change Orders

Job Number: CN1300 Project Number: CN1300

7/2/2014	
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Status	Number	Date	Packa	ı Title	Reason For Change	Status	BIC Contact	Value (\$)	Remarks
	00040	23-Apr-14	STS	PCC #10 230KV Casing at Bryant/4th	Private Utilities	New Item		138,000.00	PG&E wants Central Subway to install steel casing next to existing 230kV at 4th/BryantPCC #10 issued to TPC on 4/23/14. Cost shown is rough order of magnitude.
	00039	23-Apr-14	CTS	CTS-Hydrofraise Teeth	Unforeseen Condition	New Item		0.00	Potential claim.
<mark>Open (S</mark>	6tatus) 00075	13-Jun-14	YBM	YBM FACO #24 Conflict new culvert	Errors and Omissions	Open	Patrick Jennings	5,000.00	Merit presented to CMB on 6/18/14 - Agreed. Work has yet to be performed.
	00071	3-Jun-14	UMS	UMS NDSC AT&T Conduits @ Geary St	Private Utilities	Open	Huan Huynh	50,000.00	Contractor has submitted Notice of Differing Site Condition regarding AT&T conduits at Geary Street (Geary/Stockton intersection). The Contractor contends that the existing duct bank is a nested, unorganized array of custom sweeps, installed in violation of the City and Contract Specifications. Tutor alleges that this disorganized mass of conduits crossing the pile line cannot be shifted, as necessary, to allow the piles to be installed. SFMTA forwarded TPC's letter on 5/21/14 to AT&T (Huan Hyunh). SFTMA issued Misc Letter 32 (6/02/14) to AT&T requesting their attention to this issue and a field meeting with Tutor to review issue. The value inputted in the lump sum is a rough place holder.
	00067	8-May-14	YBM	YBM AWSS conflict with PGE vault	Errors and Omissions	Open	Patrick Jennings	35,000.00	Any costs will be forwarded to PGE. See letter to PGE dated 4/18/14. PGE responded in email on 4/21/14 discussing liability. Received ROM from Tutor on June 11, 2014, but awaiting formal COR.
	00065	2-May-14	STS	STS-PG&E 6" gas re-alignment	Private Utilities	Open		10,000.00	PG&E gas as shown in sidewalk per contract does not meet PG&E requirement. RE to issue a PCC. Cost shown is RE's best guesstimate.
	00064	23-May-14	GEN	GEN-PCC9 TP Cable & Conduit Downsiz	Owner Directed CIP	Open	Mike Acosta	0.00	Reduce traction power cables from 2.4kV to 2.0kV and reduce traction power conduit from 5" GRSC/Phenolic to 4" Phenolic. (Programwide). Initially presented to CMB on 9/3/13. CMB approved PCC to TPC on 5/22/14. Potential cost savings of \$907,000.
	00062	30-Apr-14	UMS	UMS Compensation Grout	Other	Open		0.00	Tutor has not submitted their Compensation Grouting plan, but their schedule and their direction to backfill the existing grout shaft @ Ellis St, is evidence that Tutor will not follow the compensation grout plan design. SFTMA has stipulated in Letters 94 and 106 that it has not received detailed compensation grouting plans for review and approval. Letter 94 describes the issues that must be addressed in the grouting plan
	00061	30-Apr-14	UMS	UMS Tangent Pile Work Delays	Other	Open		150,000.00	Contractor has submitted two RFI's contending a defective design with respect to tolerances. Tutor shows in their RFI's what they believe are conflicts with the battered pile tips and tunnel's structural shell. They believe that the battered pile tips, in many locations, will penetrate the tunnel shell. SFMTA's continued response has been to install that there is no conflict between the battered pile tips and the tunnel and that the Contractor is to proceed with pile installation per the design documents. SFMTA issued Letter 132, bringing supposed Tangent Pile issue to head. TPC responded via TPC Letter 103, which SFMTA countered with Letter 155. The estimated value is listed only as a place holder since this work is not on the critical path, it is difficult to estimate a cost impact. TPC issued Letter 208, rejecting the Contractor's position and directing to install the piles per contract. It should be noted that the tangent pile work began on 4/29 with no (apparent) issues as had been asserted by the Contractor.

Status	Number	Date	Packa	Title	Reason For Change	Status	BIC Contact	Value (\$)	Remarks
	00048	24-Apr-14	UMS	UMS OCS Pole @ Market/Ellis	Other	Open		10,000.00	The phasing for the OCS pole shown in the OCS drawings is intended by the designer to aid in the roof beam installation. It is believed that the Contractor wishes to reconfigure the OCS before pile installation begins. The Contractor's phasing results in conflicts between several Type E Piles and the OCS pole and associate guy wires. We believe that if the Contractor installs most of the Type E Piles, then stops pile installation activity to reconfigure and install the temporary OCS pole and cabeling, that the Contractor will not have all of the problems that they claim. SFMTA has responded on Letter 110 that TPC needs to provide its sequence for construction and installation of piles at Market & Ellis St. TPC verbally stated that they will consult with their sub-contractor, Becho, about alternative drill rig positions to facilitate the pile installation. The Contractor also stated that they will be pot holing to investigate whether another location for the temporary pole is possible to meet the Contractor's desired sequencing. Letter 110 goes on to state that when the above information is provided to SFTMA another meeting will be held to discuss and hopefully resolve this issue. The estimated cost (exposure) is the estimation for the cost to suspend then remobilize the pile subcontractor while the work to perform the temporary OCS installation is completed.
	00046	24-Apr-14	YBM	YBM 20" water conflict east wall	Other	Open	Patrick Jennings	0.00	Received RFI 530 on 4/23/14 of potential issue. Water line shown correctly in contract dwgs. SFWD will perform early shutdown of water line. It is anticipated there is no extra costs as this work was within scope with SFWD.
	00044	24-Apr-14	UMS	UMS ND Ellis Street Access	Other	Open		0.00	TPC claiming a delay to their schedule for BIH's late departure from Ellis St. TPC did not coordinate with BIH. TPC did not formally request access to Ellis St and did not formally notify SFMTA of potential delay. ND was denied on Letter 101.
	00041	24-Apr-14	UMS	UMS NDSC Macys Mens Canopies	Unforeseen Condition	Open		0.00	Tutor maintains that they could not have known the extent of the work involved with the canopy removals. They did not properly evaluate the canopies at bid time, and did not review the as-built drawings to determine the scope of work. Issue remains open as the canopy submittals (and the work involved) have not been approved and the full extent of the work has not been fleshed out. This will affect the work to install the Type J piles at the emergency egress stairs near Macy's Mens. NDSC was denied on Letter 69.
	00037	18-Apr-14	CTS	CTS-Panel 45 DSC Obnoxious Odors		Open	Patrick Jennings	0.00	TPC put MTA on notice.
	00036			CTS-DSC ContamSoil COR#7	Unforeseen Condition	Open	Patrick Jennings	0.00	Ongoing
	00035 00032			CTS-DSC Unkown Conduits on Washingt YBM FACO #22 potential contam soil	Unforeseen Condition Other	Open Open	Patrick Jennings Patrick Jennings	0.00 15,000.00	Costs captured by FACOs. Issue presented to CMB 4/16/14 - Agreed. Work completed but will resume when begin headhouse excavation. If merit determined will be paid by Allowance Item 4.
	00031	18-Apr-14	YBM	YBM FACO #23 concrete obstruction	Other	Open	Patrick Jennings	0.00	Investigation work performed 5/6/14. Obstruction was discovered to be a thick (18-20") street section. SFMTA believes this issue is without merit. However, Tutor has not closed this issue.
	00030	18-Apr-14	YBM	YBM FACO #21 Buried timber piles	Unforeseen Condition	Open	Patrick Jennings	0.00	Merit presented to CMB 4/16/14 - Agreed. Pile extraction completed on 5-5-14. Tutor has not submitted bill. Will be paid by Allowance Item 13. Test for SVOCs, organic pesticides and hexavalent chromium in 3 remaining
	00029	18-Apr-14	YBM	YBM FACO #18 Add analytical tests	Other	Open	Patrick Jennings	5,000.00	soil profile borings. Tutor has not submitted bill. Will have to be paid through Change Order.
	00023	2-Apr-14	STS	STS-FACO #20 Add'l Soil Testing Req	Owner Directed CIP	Open	Patrick Jennings	5,000.00	Contract Specifications 02 81 00.56 required the project to comply with the San Francisco Public Health Code Article 22A (Maher Ordinance). However, pesticides and chromium +6, which were required by the Landfill Facilities such as Baylands and Potrero Hills, were not included in the Maher Ordinance testing requirements. Cost shown is RE's best guesstimate.

Job Number: CN1300 Project Number: CN1300

Status	Number	Date	Packa	a Title	Reason For Change	Status	BIC Contact	Value (\$)	Remarks
	00022	31-Mar-14	UMS	UMS-FACO#19 Street Light at Stockto	Unforeseen Condition	Open		0.00	Letter 134 formally transmitted FACO #19 directing the Contractor to remove the conduit and feeder to the combination street signal and light pole at the southwest corner of Stockton and O'Farrell. The Contractor has stated that the combination street light at the southwest corner of Stockton and O'Farrell streets was not shown on the street light drawings. SFMTA clarified that regardless of what appurtenances were on the pole, the pole was shown to be removed on drawings (pavement demo) PD-105 and (electrical) ET-104. The Contractor was correct that the conduit and feeder supplying the street light are not shown on any drawings. PG&E, SFPUC, and Sustainable Streets have not claimed ownership of the conduit and its feeder.
	00021	17-Mar-14	YBM	YBM FACO #14 Abandoned sewer not	Unforeseen Condition	Open	Patrick Jennings	0.00	Presented to CMB 3/12/14 NTE \$10,000 - Agreed. Work completed on 3/6/14. Tutor has yet to submit bill. Will be paid under Allowance Item 13.
	00020	17-Mar-14	YBM	YBM FACO #12 Buried concrete wall	Unforeseen Condition	Open	Patrick Jennings	0.00	Presented to CMB 3/12/14 NTE \$15,000 - Agreed. Increased NTE from \$15,000 to \$20,000 at CMB 4/9/14 - Agreed. Work complete 5/2/14 for guidewall construction. Wall will be encountered again when station excavation begins. Tutor has yet to submit bill. Will be paid under Allowance Item 13.
	00019	10-Mar-14	STS	STS FACO #17 R/D Subsurface Layers	Unforeseen Condition	Open		0.00	Contractor found existing sub-surface layers of concrete about 12" below ground surface during potholing on 4th Street between Bryant and King. Cost to be paid under contract allowance.
	00018	10-Mar-14	STS	STS FACO #16 Mitigate Subsurface	Unforeseen Condition	Open		0.00	Found pre-existing voids underneath roadway that caused streetbase to settle and collapse after saw-cutting operation. Cost to be paid under contract allowance.
	00017	10-Mar-14	CTS	CTS-FACO #13 Remove a Water-Filled	Owner Directed CIP	Open	Patrick Jennings	1,000.00	Field work completed. TPC to submit FACO Summary.
	00016	10-Mar-14	CTS	CTS-FACO #11 Relocate ASWW Fire Hyd	Owner Directed CIP	Open	Patrick Jennings	25,000.00	Field work is ongoing.
	00015	10-Mar-14	CTS	CTS-FACO #10 NEW AWSS Fire HydrantW	Unforeseen Condition	Open	Patrick Jennings	65,000.00	Field work is ongoing.
	00014	10-Mar-14	CTS	CTS-FACO #9 Add Traffic Signage @Po	Owner Directed CIP	Open	Patrick Jennings	1,000.00	Field work completed. TPC to submit FACO Summary.
	00012	10-Mar-14	CTS	CTS-FACO #7 Relocate AWSS Fire Hydr	Unforeseen Condition	Open	Patrick Jennings	10,000.00	Field work completed. TPC to submit FACO Summary.
	00011	10-Mar-14	CTS	CTS-FACO #6 TC for AWSS line Passin	Private Utilities	Open	Patrick Jennings	5,000.00	Field work yet to be performed.
	00010	10-Mar-14	CTS	CTS-FACO #5 Unidentif 3" Metal Pipe	Private Utilities	Open	Patrick Jennings	0.00	Field work completed. TPC to submit FACO Summary.
	00009	7-Mar-14	CTS	CTS-FACO #4 Joint Trench Unid. Cond	Private Utilities	Open	Patrick Jennings	0.00	Field work completed. TPC to submit FACO Summary.
	80000	7-Mar-14	CTS	CTS-FACO #3 Enlarge Excavation SFWD	Other	Open	Patrick Jennings	10,000.00	Field work completed. TPC to submit FACO Summary
	00007	7-Mar-14	CTS	CTS-FACO #2 Connecting (E) Ductbank	Private Utilities	Open	Patrick Jennings	0.00	Field work completed. TPC to submit FACO Summary
	00006	22-Jan-14	STS	STS Traffic Signal RFIs	Errors and Omissions	Open		150,000.00	Contractor found various discrepancies in the Contract ET drawings related to traffic signals. RFIs were submitted and responded to clarify the discrepancies. RE to revise ET drawings and issue PCC. Cost shown is rough order magnitude.
	00004	11-Dec-13	CTS	CTS Liquidated Damages Failure Traf	Other	Open		-3,500.00	On November 26, 2013, Tutor Perini workers closed Washington Street earlier than the approved as noted Traffic Control Plan allowed. Submittal 01 55 26.54-010 clearly stated the road is to be closed at 8:00 pm Tuesday, November 26th, 2013. Additionally, at 4:50 p.m. Monday, November 25 an e-mail message was sent to Brett Chabert and Gabe Bautista which included the time of the closure, and authorization to procure Police Officers for the closure. The police officers showed up at 8:00 pm November 26th, 2013 for the scheduled closure.
	00002	6-Dec-13	STS	STS FACO #15 Add. ATT Manhole, PB	Private Utilities	Open		280,618.00	Contract Specifications 33 41 10, 2.04 and 3.05 specified that all manholes and pullboxes are to be furnished and installed by AT&T. However, AT&T requested that these manholes and pullboxes be installed by the Contract 1300 contractor pending AT&T approval of a fair and reasonable cost PCC #6 issued to TPC. Cost shown is Contractor's proposal.

7/2/2014

Status	Number	Date	Packa	1 Title	Reason For Change	Status	BIC Contact	Value (\$)	Remarks
		12-Nov-13	CTS	CTS-FACO #1 Potholing @Stockton&Was	Unforeseen Condition	Open	Patrick Jennings	13,000.00	You are ordered to perform work as follows: Proceed with Potholing work to locate the water lines, and other utility lines in the area that may interfere with the installation of the cross-connect and capping of the 12" line at the North West corner of Washington Street and Stockton Street intersection to determine if sufficient space exists for connection, as shown on the attached sketch "Request to FA Pothole Stockton and Washington.pdf". The Gatebook Page – 7 Detailed Page – A-1174 shows this to be a 8" connection to a 12" and an 8" line probably installed in 2005, attached. The work specified above will be paid for on a force account basis as set forth in Section 6.05, Force Account Work, of the General Provisions. Payment for this work will not be allowed without an executed Contract Modification. Work under this Force Account Change Order shall not exceed \$13,000 without an approved supplemental Force Account Change Order. The Contractor shall notify the SFMTA promptly in writing when costs under this Force Account Change Order exceed amount. Field work completed. TPC to submit FACO Summary.
Log Tota	als:							1,399,060.00	

PROPOSALS

Proposed C		ate Pac Change (Type)	ka Title	Reason	Status	DIO O COLORA	· · · · ·	
		hange (Type)			Jiaius	BIC Contact	Cost (\$)	Remarks
000	0001 1							
		18-Oct-13 CTS	DEL of duct bank on Stockton to Sac	Owner Directed CIP	New Item	Patrick Jennings	-197,039.00	
000	0002 2	24-Oct-13 UM	S Modification to UMS Roof Composite		In Review	Patrick Jennings	-10,836.00	Origionally, the Engineer's Estimate shows approximately (\$10,836) SAVINGS compared to baseline condition (base bid documents) for the preferred option (replace 3" high 16, gauge deck with 2" high, 18 gauge deck) and a COST of approximately \$1,893 for the alternative option. However, Tutor's proposal is a COST of \$14,336 for the preferred option and a COST of \$37,239 for the alternative option. Tutor has verbally notified SFMTA during progress meetings that they need an answer immediately so they can oder these long-lead items. (Note, SFMTA issued the PCC to Tutor on October 2013, but Tutor did not submit their pricing until June 6, 2014). SFMTA issued direction to Tutor via letter No. 225 to proceed with the preferred Option. Tutor has since verbally informed SFMTA that they will NOT proceed until a Change Order is issued, as per contract. They do not recognize written direction for changes to the contract. SFMTA has met to negotiate (6/25/14), which resulted in additional information being required of Tutor to justify their costs.
000			I Change of date range to receive art		In Review	Patrick Jennings	0.00	
000		22-May-14 CTS		Unforeseen Conditions	New Item	Patrick Jennings	75,000.00	
		13-Dec-13 STS		Private Utilities	In Review	Patrick Jennings	20,000.00	
000			S UMS Geoprobe Credit	Other	New Item	Patrick Jennings	-30,320.00	
			I GEN Tunnel Lowering	Other	New Item	Patrick Jennings	100,000.00	
000	0009 1	11-Jun-14 GEI	GEN-PCC9 TP Cable & Conduit Downsiz	Owner Directed CIP	New Item	Patrick Jennings	-907,000.00	
000	0010 2	23-Apr-14 STS	PCC #10 230KV Casing at Bryant/4th	Private Utilities	New Item	Patrick Jennings	138,000.00	
000	0011	8-May-14 YBM	1 YBM Delete Comp Grout Olivet Bldg	Other	New Item	Patrick Jennings	-1,800,000.00	
000	0012 1	18-Jun-14 CTS	CTS- AWSS Wk PGE relocation schedul	Unforeseen Conditions	New Item	Patrick Jennings	68,550.00	CMB approved the PCC, issued to TPC. Waiting for TPC's response.
Change Ord	der Reque	est (Type)						
000	0001	3-Apr-14 CTS	CTS Utility Conflict at WD Tie-In	Unforeseen Conditions	In Review	Richard Redmond	15,662.00	
000	0002	3-Apr-14 UM	Grade 50 Steel inLieu ofA913 Grad70	Errors and Omissions	In Review	Richard Redmond	626,780.00	
000	0003	3-Apr-14 UM	UMS -Remove AWSS Hydrant at OFarrel		Rejected	CLOSED	8,353.00	
000	0004	3-Apr-14 CTS	CTS Inspect of Sewer Culverts on S	Unforeseen Conditions	In Review	Richard Redmond	1,280.00	
000	0005	4-Apr-14 GEI	I GEN-AT&T Changes Conduit Radius	Private Utilities	New Item	Richard Redmond	22,290.00	
000	0006		CTS Sewer Line Demo at Washing		New Item	Mike Kobler	37,624.00	
Log Totals:	:	·	Ŭ				-1,831,656.00	

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Status	Number	Date	Packa Ti	itle	Reason For Change	Status	BIC Contact	Value (\$)	Remarks
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Туре	Number	Date	Packa Ti	itle	Reason	Status	BIC Contact	Cost (\$)	Remarks
	00002	22-Oct-13		CMod # 2 Errata Final		Pending	Patrick Jennings	0.00	Whereas, during the bid period nine Addenda were issued to Contract 1300; and Whereas, the Agency issued a Conformed Contract 1300 incorporating the nine Addenda; and Whereas, minor errors were made in the conforming of the Contract; and Whereas, the Agency has prepared an errata to correct these minor errors. Now therefore, the Contract is hereby modified as follows: 1. Article 3.04 UNFORESEEN OR DIFFERING CONDITIONS Delete paragraph F in its entirety and replace with the following: F. As provided in Public Contract Code section 7104 and the process set forth therein, the City will grant a Change Order if the City determines, in its sole discretion, that the conditions reported do materially so differ, or do involve hazardous waste, and cause a decrease or increase in Contractor's cost or time to perform all or part of the Work; the City will grant such Change Order if granted at all, only as provided in Article 6 of these General Provisions, and/or as a Contract Time extension as provided in Article 7 of these General Provisions, as appropriate. If the City determines that a differing condition exists, a Proposed Contract Change will be issued as provided in Article 6 2. Drawing UMS TP-002, Rev. 2 Delete note 23 in its entirety and replace with the following: 23. ALTERNATE: Provide non- metallic 2-hour rated phenolic conduits as an alternative conduit material to galvanized rigid steel (GRS) conduits for Traction Power Feeder Circuit Conduits and Traction Power Feeder Riser Conduits. The alternative includes al elbows, fittings, boxes and all conduit raceways accessories. See Specification 26 05 34 Raceways and Boxes (Traction Power) 3. Drawing CTS TP-002, Rev. 2 Delete note 23 in its entirety and replace with the following: 23. ALTERNATE: Provide non-metallic 2-hour rated phenolic conduits as an alternative conduit material to galvanized rigid steel (GRS) conduits for Traction Power Feeder Circuit Conduits and Traction Power Feeder Riser Conduits. The alternative includes all elbows, fittings, boxes and all
Log Tota	00001 00003	tion (Type) 13-Sep-13 19-May-14		CMod #1 BART Elevator Option 1 @ Pow CTS Work Safely Around Power Pole	Other Unforeseen Conditions	Approved Approved	CLOSED CLOSED	90,000.00 25,956.00 115,956.00	

Project Trend/Change Control Log

rrent Cost Estimate	and Allocated Contingend	cies					-		
ltem #	# Change Description		Change Type	CMB No.	Change St	atus	Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
					Approval Action	Approval Date	Actual/Forecast		
Contract 1250 - Utili	ities Relocation #1 (Porta	I & MOS)							
1250-0001	081-0001	Delete Option MF-OPT1 "Fire Protection Sprinkler System"	1	N/A			(50,000)	Cleared City Attorney's Office; to Shahnam for execution. [n "Current Forecast" - Sep2010 Cost Report.] COMPLETE, NO FURTHER ACTION; CMOD #1	CMOD #1 Approved
1250-0002	081-0002	Changes to Sewer on 4th between Howard and Folsom	2	CMB-0001	Agree	07/12/10	+107,174	Differing conditions as AWSS is directly over existing sewer; unable to install sewer manhole per plan. [In "Current Forecast" - Sep2010 Cost Report.] No reinbursement from SFPUC Sewer. COR #2-531,135; COR #5-\$73,039 COMPLETE, NO FURTHER ACTION; CMOD #2	CMOD #2 Approved
1250-0003	081-0003	Quantity Adjustment for JT-6 and JT-7	4	CMB-0002	Agree	08/04/10	+192,420	In April 2010 pay app, JT-6 bid qty exceeded by 344% (230 vs. 1021) and JT-7 bid qty exceeded by 112% (500 vs. 1060) [In "Current Forecast" - Sep2010 Cost Report.] COMPLETE, NO FURTHER ACTION; CMOD #3	CMOD #3 Approved
1250-0004	081-0004	Demolition of existing brick and concrete footing on 4th between Howard and Folsom	2	CMB-0003	Agree	07/12/10	+170,000	Unforeseen bricks and concrete footing discovered on east side of 4th Street between Folsom and Howard. [In "Current Forecast" - Sep2010 Cost Report.] COR #3-RFI #76 COMPLETE, NO FURTHER ACTION; CMOD #4	CMOD #4 Approved
1250-0005	081-0005	Modify AWSS at 4th/Bryant and 4th/Harrison	3	CMB-0004	Agree	08/04/10	+586,000	At 4th/Bryant, AWSS conflict with new 48° sewer and AT&T duct bank. At 4th/Harrison, AWSS conflict with 18° sewer. [In "Current Forecast" - Sep2010 Cost Report.] No reimbursement from SFPUC AWSS. PCC #2: RFI #s 34, 49 & 51 COMPLETE, NO FURTHER ACTION; CMOD #5	CMOD #5 Approved
1250-0006	081-0006	Install four additional piles and reinforce existing foundation at 401 4th Street	2	CMB-0005	Agree	08/25/10	+130,000	Existing foundation was discovered to be part brick and part concrete, which is different from plan. Also, foundation was unstable and required additional reinforcement. Refer to RFIs #85R1, 88.1, 100, 101, 102 COMPLETE, NO FURTHER ACTION; CMOD #6	CMOD #6 Approved
1250-0007	081-0007	Additional work to install 48° sewer due to various utility conflicts at 4th/Bryant	2	N/A			+32,964	48° RCP sewer in conflict with existing AT&T duct bank that needs to remain in service until new joint trench is installed to enable switchover. This conflict forced contractor into a more expensive means to install sewer. Also, 48° RCP sewer in conflict with existing 30° force main and 24° steel pipes. No reimbursement from SFPUC Sewer. COMPLETE, NO FURTHER ACTION; CMOD #9	CMOD #9 Approved
1250-0008	081-0008	Relocate TPC vault on 4th Street between Howard and Folsom	6	N/A			+19,500	Contractor uncovered existing TPC conduits on top of AT&T duct bank on 4th near Howard, a differing site condition. An AT&T intercept vault is to be installed, however, TPC conduits can not reside inside AT&T intercept vault. Joint Trench utilities participation cost TBD. Executed on 10/14/2010. Refer to RFI#62 (\$19,500) Expected Reimbursement from TPC. RE has provided documentation of notification to TPC, July- August '10. See final 1250 Form B actual costs COMPLETE, NO FURTHER ACTION; CMOD #8	CMOD #8 Approved
1250-0009	081-0009	Install additional sewer and provide temporary connections at 4th/Stillman	3	N/A			+47,000	Location of existing sewer to be intercepted differs from where it's shown in the plan, hence additional sewer to be installed. Also, due to optional sewer MH not buildable until (E) AT&T DB is removed, additional sewer is necessary to tie into (E) main as interim. New sewer is supposed to tie into optional MH. No reimbursement from SFPUC Sewer. RFI #91 COMPLETE, NO FURTHER ACTION; CMOD #7	CMOD #7 Approved

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item #		Change Description	Change Type	CMB No.	Change St	atus	Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
					Approval Action	Approval Date	Actual/Forecast		
1250-0010	081-0010	Perform AT&T wye cast connection and chipping of existing duct bank at various locations	6	N/A			+48,181	AT&T was supposed to tie-in its own facility. However, AT&T's contractor, who is hired to install vaults, stated it is not in their scope of work. Refer to RFI #82.1. AT&T intercept vault at 4th/Harrison can not be installed at design location due to utility conflicts. AT&T vault to be shifted a few feet instead of vault being on top of existing duct bank. This will cause additional excavation, joint trench and modification to existing duct bank. Joint Trench utilities participation cost TBD. SFMTA and AT&T are negotiating with Contractor. (\$44,81) Expected Reimbursement from AT&T. RE has provided documentation of notification to AT&T, Sept-Oct 10. See final 1250 Form B actual costs. COMPLETE, NO FURTHER ACTION; CMOD #10	CMOD #10 Approved
1250-0011	081-0011	Remove existing piles and shoring at 801 Howard	2				-0-	This change order has been incorporated in CMOD #16 (Trend #30) COMPLETE, NO FURTHER ACTION; CMOD #16	CMOD #16 Approved
1250-0012	081-0012	Additional work related to AT&T facilities due to unforeseen conditions.	6	CMB-0047	Agree	08/03/11	-0-	This is the total of all force account work related to AT&T facility. SFMTA to seek reimbursement from AT&T through the Form B process. (\$67,798) Expected Reimbursement from AT&T. Cost captured in Trend #15 COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved
1250-0013	081-0013	Additional work related to PG&E facilities due to unforeseen conditions.	6	CMB-0047	Agree	08/03/11	-0-	This is the total of all force account work related to PG&E facility. SFMTA to seek reimbursement from PG&E through the Form B process. (\$30,547) Expected Reimbursement from AT&T. Cost captured in Trend #15 COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved
1250-0014	081-0014	Remove brick wall at sewer sta 152+94 (west side) on 4th between Howard and Folsom.	2				-0-	This change order has been incorporated in CMOD #16 (Trend #30) COMPLETE, NO FURTHER ACTION; CMOD #16	CMOD #16 Approved
1250-0015	081-0015	Archaeological Findings - Charges for rental of steel plates, triton barriers, shoring and labor for maintenance.	2				+784,771	Midden deposits were discovered on 4th Street between Howard and Folsom. Contractor stopped work. Contractor requesting payment for rental charges of trench plates, barricades, and shoring, and cost of maintenance. Total cost exposure is projected through end of November 2010. The \$290,703.00 is expected to be the final estimate for the rental of trench plates, barriers and shoring. \$597,000 Arch, \$179,000 DIFF, \$8,500 Traffic COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20
1250-0016	081-0016	Additional AWSS modification at 4th/Harrison	1	CMB-0016	Agree	11/10/10	+156,418	New alignment is proposed by Design team. No reimbursement from SFPUC AWSS. COR #33 Supplemental COMPLETE, NO FURTHER ACTION; CMOD #12	CMOD #12 Approved
1250-0017	081-0017	Protection Work at PG&E Vault 1611	6				-0-	Expected Reimbursement from PG&E or work to be deferred \$6,400. RE has notified PG&E via email dated 10/29/10 that SFMTA expects full reimbursement for this work if implemented. Follow-up pending. Work was not performed and will need to be addressed in a future contract.	
1250-0018	081-0018	Demolition and Support Work at PG&E Vault 1611	6				-0-	Expected Reimbursement from PG&E or work to be deferred \$25,000. RE has notified PG&E via email dated 10/29/10 that SFMTA expects full reimbursement for this work if implemented. Follow-up pending. Work was not performed and will need to be addressed in a future contract.	
1250-0019	081-0019	Extended overhead delay claim due to Archaeological discoveries	2					Old Note: Potential delay claim if issue extends project duration. Amount is estimated at \$3,000.00 per day for 60 days (\$180K). New Note: By exercising all option work, additional 84 calendar days is added to the contract time. In addition, midden mitigation will start on 107/10. As a result, the potential for extended overhead cost is averted. This trend has been superseded by Trend #37. COMPLETE, NO FURTHER ACTION	
1250-0020	081-0020	Sewer modification under I-80 freeway at 2 locations	3				+39,062	Inverts of existing sewer where new sewer will tie into are found to be different than shown in plan and would create a reverse slope. Additional pipe and manhole are required to fix slope. Refer to RFI Nos. 2S01 and 147. No reimbursement from SFPUC Sewer. COMPLETE, NO FURTHER ACTION; CMOD #11	CMOD #11 Approved

					Project	Trond/Chang	e Control Log		
ltem #		Change Description	Change Type	CMB No.	Change Sta		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
					Approval Action	Approval Date	Actual/Forecast		
1250-0021	081-0021	Install new AWSS lateral including hydrant at NW 4th/Harrison	2					Existing AWSS lateral at SW 4th/Harrison is in conflict with new 18" sewer. Instead of modifying the lateral to avoid the sewer, a new lateral at NW corner is a preferred solution. CM awaiting design revision from Design team. Trend No. 21 is combined with Trend No. 22.	
1250-0022	081-0022	Install additional 30 feet of DIP and new AWSS at 4th/Harrison	2	CMB-0026	Agree	01/12/11	+160,908	AWSS Point of connection on 4th Street was found to be cast iron instead of ductile iron as shown in DPW as- built. Due to this differing condition, additional length of pipe needs to be replaced and lead joint to be installed in order to install a ductile iron tee. Also, existing AWSS hydrant lateral is in conflict with new 18" sewer. The preferred solution was to install a new ductile iron lateral at a different location rather than installing vertical offsets on an existing cast iron lateral. No reimbursement from SFPUC AWSS. COMPLETE, NO FURTHER ACTION; CMOD #15	CMOD #15 Approved
1250-0023	081-0023	Steel plates and shoring standby for 2 months due to PG&E delay at Clementina	3				+24,981	Sewer at Clementina was delayed by 2 months due to PG&E vault conflict. PG&E will not pay cost of steel plates and shoring standby because PG&E drawings were sent to MTA during design phase and PG&E was not made aware of the conflict then. COMPLETE, NO FURTHER ACTION; CMOD #13	CMOD #13 Approved
1250-0024	081-0024	Utility support and work around for AT&T facilities	6	CMB-0048	Agree	08/24/11	+95,311	Contract specs specified AT&T to compensate contractor directly for workaround & support. AT&T refused to pay Synergy. Synergy considers AT&T's refusal as a changed condition to CN 1250 contract. (\$95,311) Reimbursement from AT&T. See Final 1250 Form B actual costs. COMPLETE, NO FURTHER ACTION; CMOD #19	CMOD #19 Approved
1250-0025	081-0025	Utility support and work around for PG&E facilities	6					Contract specs specified PG&E to compensate contractor directly for workaround & support. PG&E negotiated \$100,000 directly with Synergy and will pay synergy directly as well.	
1250-0026	081-0026	Utility support and work around for SFWD facilities	3	CMB-0028	Agree	02/09/11	+66,510	Total cost known to date (10/5/10) of all SFWD support and workaround. See COR #12, 20, 32 and 35. Agreed amount is total of COR #12, 20 and 32. Total exposure is equal to agreed amount plus COR #35. No reimbursement from SFWD. COMPLETE, NO FURTHER ACTION; CMOD #14	CMOD #20 Approved
1250-0027	081-0027	Trucking and labor support for Archaeological mitigation	2				-0-	Synergy is asked to provide trucking for delivery of midden soil to Sonoma State University lab. Other support work includes traffic control, plating, loading and unloading of midden soil. The amount shown are charges up to end of November 2010 only. Additional charges are expected which will be tracked as Trend No. 28. COMPLETE, NO FURTHER ACTION	CMOD #20 Approved
1250-0028	081-0028	Trucking and labor support for Archaeological mitigation, Part II	2				-0-	Synergy is asked to provide trucking for delivery of midden soil to Sonoma State University lab. Other support work includes traffic control, plating, loading and unloading of midden soil. The amount shown are expected charges beyond November 2010. COMPLETE, NO FURTHER ACTION	CMOD #14 Approved
1250-0029	081-0029	Cost overrun for bid item UD-10 "Additional excavation and backfill"	4	CMB-0036	Agree	05/04/11	+112,500	Bid item UD-10 is to pay for excavation of connection hole and kill hole for SFWD line. Contract only included 200 cubic yard for this work. The size of excavations is dictated by field conditions and per the direction of SFWD inspector. RE's estimate of the total volume of dirt to be excavated is 630 cy. Examples of differing conditions encountered are: location of existing water line is different than where it's shown in the plan, existing waterline where shown in the plan to be connected to is inactive, differing condition at 5th/Clementina, connection holes and kill holes need to be expanded due to other utilities in the way. COMPLETE, NO FURTHER ACTION; CMOD #17	CMOD #17 Approved
1250-0030	081-0030	Supplement bid item GE-4 "Allowance for differing site conditions" related to the installation of publicly owned facilities only (sewer, water, AWVSS, Joint trench)	4	CMB-0030	Agree	04/13/11	+235,595	This change order is to supplement GE-4 for cost overrun related to the installation of publicly owned infrastructure only. GE-4 cost overrun for installation of privately owned infrastructure is being tracked separately and a separate change order will be issued. COMPLETE, NO FURTHER ACTION; CMOD #16	CMOD #16 Approved
1250-0031	081-0031	Unused allowance for bid item GE-8 *Allowance for cast-in-place utility vaults"	4				-0-	Bid item GE-8 is an allowance to pay contractor for designing and constructing cast-in-place manholes as required for installation of new systems. Only one CIP vault was installed. Credit amount included in Trend #43	

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1250-0032	081-0032	Unused allowance for bid item UD-5 "Handling and disposal of Class I Hazardous Waste"	4				-0-	Bid item UD-5 is an allowance to pay contractor for handling and disposal of Class I Hazardous Waste. No class I hazardous waste was off hauled away from the job site. Class I soil found under the I-80 freeway was put back in the trench as backfill. This bid item is expected to remain unused. However, contractor is claiming to recover "General Conditions" cost. Credit amount included in Trend #43	
1250-0033	081-0033	Unused allowance for bid item UD-6 "Transportation of Class I Hazardous Waste"	4				-0-	Bid item UD-6 is an allowance to pay contractor for transporting of Class I Hazardous Waste. No class I hazardous waste was off hauled away from the job site. Class I soil found under the I-80 freeway was put back in the trench as backfill. This bid item is expected to remain unused. However, contractor is claiming to recover "General Conditions" cost. Credit amount included in Trend #43	
1250-0034	081-0034	Cost overrun for bid item TR-6 "Allowance for manual traffic control"	4	CMB-0037	Agree	05/04/11	+68,820	Bid item TR-6 is an allowance to pay for off-duty police officers and parking control officers. Contract allowance amount is \$50,000.00. Contract specs calls for police officers at 4 intersections (4th/Howard, 4th/Folsom, 4th/Harrison and 4th/Bryant). The average cost of 1 police officer is about \$800,00 per day (\$100.00 per hour). The \$50,000.00 allowance is only good for 60 days for 1 police officer. Hence, additional money was needed for traffic control support. Final amount paid police officers is \$87,500.00. Additional billings for parking control officers (from AI Herce of DPT) is forthcoming: RE estimated this bill to be about \$60,000.00. COMPLETE, NO FURTHER ACTION; CMOD #18	CMOD #18 Approved
1250-0035	081-0035	Premium cost for requesting contractor to accelerate work on 4th Street between Howard and Folsom	2				-0-	Due to archaeological discoveries, many trenches remained open and the project would not have enough time to complete installation of underground utilities and restore the roadway before the Holiday season. Without accelerating the work, the project would have had to pay rentals for the barriers, street plates and shoring for the unfinished trenches that would have remained. By accelerating the work and DPT allowing the contractor to work through the beginning of the Holiday Moratorium, the project avoided these rental costs, which is estimated to be greater than the premium cost of accelerating the work. COR Not submitted by Contractor CLOSED COMPLETE, NO FURTHER ACTION	
1250-0036	081-0036	Rental/Maintenance costs for support of Archeological Trenches (Part 1 of 4) \$255,840; Support Work During Archeologist Mitigation Efforts (Part 2 of 4) \$199,741; Mobilization and Equipment Standby Costs (Part 3 of 4) \$57,728; Additional Overhead/Indirect Costs During Archeological Delay Period (Part 4 of 4) \$124,186	2	CMB-0041	Agree	07/13/11 02/15/12 07/25/12 09/12/12	-0-	Due to archaeological discoveries, contractor may potentially claim for compensation for his equipment that were idle for the duration of the waiting period. RE's estimate is based on Caltrans rate for equipment standby for 5 months (May to October). RE has not received any change order request related to this item. RE to verify if his equipment were indeed idle during this time period. 2/15: Rental/Maintenance Costs for Support (Part 2 of 4); Addl Work as Result of Archeological Shutdown (3 of 4). 07/25: Revised mod - compensation for 1 of 3) Rental/Maintenance, 2 of 3) Addl Work result of Archeological support, 3 of 3) Addl OH/Indirect cost. RE to add Equipment Standby time to revised mod. 09/12: RE to Prepare Modification 10/29: CMod 20 is being issued as a unilaterally change, by the SFMTA that represents the SFMTA's estimate of a fair and reasonable final compensation amount for the additional work. COMPLETE, NO FURTHER ACTION	CMOD #20 Approved
1250-0037	081-0037	Compensation for loss of production, inefficiency and disruption of work due to archaeological discovery	2				-0-	Due to archaeological discoveries, contractor may potentially claim for compensation for loss of production, inefficiency and disruption of work. RE has not received any change order request related to this item. Amount shown is a ROM cost by the RE. RE expects a COR from the contractor but change justification is very unlikely. Initial draft COR was \$898,453. RE has adjusted to \$661,559 removing the month of October and option work. This was then revised to 800,000. There has been no official submittal from Synergy. SFMTA has directed Synergy to submit anything related to the Architectural delays through the claims process. This will be carried in the Potential Claim Log. COMPLETE, NO FURTHER ACTION	
1250-0038	081-0038	Project Delay due to archaeological discovery and PG&E Issues.	2				-0-	Due to archaeological discoveries compounded with PG&E's ability to perform service switchover to Olivet University and de-energize a live duct bank in conflict with 48' sewer. The project will realize an estimated 6 weeks of non-compensable delay to the substantial completion date of 4/6/11. 47 days estimated by RE. Contractor submitted COR 51 in the amount of \$1,144.776.74 on September 1st, 2011. RE responded requesting additional backup on October 19th, 2011. Subsequentially, no additional information has been provided by the contractor, therefore, SFMTA has directed Synergy to submit anything related to the Architectural delays through the claims process. This will be carried in the Potential Claim Log.	

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1250-0039	081-0039	Remove BP-4 (Waterproofing) from Contract	4				-0-	Bid item was not used. Contractor requesting compensation to recover for General Conditions cost. Bid item amount total is \$40,000. NO FURTHER ACTION; Superseded by COR #58. (See 1250-0043 below)	N/A	
1250-0040	081-0040	Delete SW-8 (24" Sewer) from Contract	4				-0-	Bid item was not used. Contractor requesting compensation to recover for General Conditions cost. Bid item amount total is \$73,117. NO FURTHER ACTION; Superseded by COR #58. (See 1250-0043 below)	N/A	
1250-0041	081-0041	Delete UD-5 and UD-6 (Class I Off haul and Handling) from Contract	4				-0-	Bid items were not used. Contractor requesting compensation to recover for General Conditions cost. Bid items total amount is \$150,000. NO FURTHER ACTION; Superseded by COR #58. (See 1250-0043 below)	N/A	
1250-0042	081-0042	Delete GE-6 (Hazmat) from Contract	4				-0-	Bid item was not used. Contractor requesting compensation to recover for General Conditions cost. Bid item amount total is \$100,000. NO FURTHER ACTION; Superseded by COR #58. (See 1250-0043 below)	N/A	
1250-9001	081-9001	Utility Companies refusal to contribute to utility- support costs and work around. (Voided. Recorded individually in TR-0059-TR-0061.)	7						VOIDED	
1250-0043	081-0043	Unit Rate Adjustment for Entire 1250 Bid Items	4				(333,904)	Pursuant to General Provision GP-11, COR is to adjust contract value to account for fix overhead costs for bid items not performed or where the bid item performed varied by 25%. COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved	
Contract 1250 Totals	S						+2,694,211	Total Changes to the Contract in the amount of \$2,694,211, represents a \$740,834 OVER RUN of the original allocated contingency of \$1,953,377. Changes that will be Utility Reimbursement credits through the Form B process in the amount of \$162,992 will offset some of this OVER RUN. Final Contract Closeout Total \$11,968,150 will be reduce by \$2,275,419 Utility Reimbursement credits for a Final Program cost of \$9,692,731 for CN 1250		
Contract 1251 - Utili	ties Relocation #2 (UMS)									
1251-0001	082-0001	Modify traffic control plan by establishing a single travel lane on Stockton St. in lieu of time-based multiple lane requirements as stipulated in contract plans TR-001 to 004.	7				-0-	After discussions with the Contractor and the Union Square Business Improvement District (BID), the SFMTA determined that modifying the lane requirements along Stockton St. and implementing the alternate pedestrian walkway design would be beneficial to the execution of CN 1251 in the following ways: increased public safety, increase construction production, and create a more pleasing environment to the public and merchant. COR #1 COMPLETE, NO FURTHER ACTION; CMOD #4	CMOD #4 Approved	
1251-0002	082-0002	Installation of reinforced concrete slab underneath Joint Trench along Stockton at O'Farrell (East Side). CTL 133-66.37 (27.08 LEFT) to CTL 134+00.87 (27.08 LEFT	1&3	CMB-0035	Agree	04/20/11	+67,634	Pursuant to a commitment between Barney's and SFMTA, Emergency Stair #4 (to be constructed in CN 1253) must avoid existing subsidewalk basement. It was determined that moving the conflicting stairs would require the Joint Trench to be constructed in a manner that would enable it to span the excavated area. The addition of the invert slab allowed for the needed span thereby allowing for a relocation of Emergency Stair #4. COR #4; PCC #1 COMPLETE, NO FURTHER ACTION; CMOD #2	CMOD #2 Approved	
1251-0003	082-0003	Adjust placement of 3EA manholes along Geary Street and O'Farrell Street. The modified manhole locations require the installation of approximately 265LF of additional HDPE pipe inside the existing 3'x5' brick sewer.	1	CMB-0029	Agree	02/23/11	+148,919	During future station construction, the design team anticipates that excavation related settlement may cause damage to the brick sewers along Geary and O'Farrell Streets. This proposed modification will replace the vulnerable brick sewer within the influence zone with HDPE pipe that will not be as susceptible to settlement- induced damage. COR #9, PCC #2 COMPLETE, NO FURTHER ACTION; CMOD #1	CMOD #1 Approved	

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1251-0004	082-0004	Changes to Neiman Marcus secondary enclosure wall due to various differing site conditions.	2	CMB-0031	Agree	04/13/11	+189,584	Due to various differing site conditions as described in RFIs 15, 37, 38 and 44, changes to the secondary enclosure wall are required. The existing footing were found to be inconsistent, i.e. missing footing in one area, footing sticks out beyond existing wall, overpour on existing footing, existing wall to be 6° into private property. Contract plan SR-302 shows a consistent footing. COR #8 COMPLETE, NO FURTHER ACTION; CMOD #3	CMOD #3 Approved
1251-0005	082-0005	Existing PG&E conduits were found on top and parallel to existing AWSS on Geary Blvd. at 2 locations (east and west of Stockton)	6				+66,084	Contract plans AW-501.1, 501.2, 501.4 and 501.4 show the existing AWSS to be replaced in place. However, existing PG&E conduits were found to be on top and parallel to the existing AWSS resulting in extra work in working around and/or shifting the existing electrical conduits. Contract plans JT-308 and 309 showed the existing electrical and AWSS to be separate. Estimate includes \$77,808.253 (Synergy FA Request) + \$55,000 (first digging west side) + \$10,000 (temp backfill during moratorium) + \$15,000 (plate rental west side at \$5k per month). Estimate does not include Synergy's cost to sequence his work. Updated projected cost impact from \$50,000 to \$127,893 based on compilation of force accounts received. RE negotiating COMPLETE, NO FURTHER ACTION	CMOD #24 Approved
1251-0006	082-0006	Design changes to utilities on Stockton street between Post and Geary	1	CMB-0039	Agree	06/08/11	+398,624	Due to changes to the limits of the UMS Station on Stockton Street between Post and Geary, the original utility design has changed. COR #24, PCC #4 COMPLETE, NO FURTHER ACTION; CMOD #5	CMOD #5 Approved
1251-0007	082-0007	Design changes to utilities on Ellis Street	1	CMB-0049	Agree	08/24/11	(434,957)	Due to changes to the limits of the UMS Station on Ellis street, the original utility design has changed. PCC #5 COMPLETE, NO FURTHER ACTION; CMOD #5	CMOD #5 Approved
1251-0008	082-0008	Elimination of underpinning at 150 Stockton	1					Based on field verification, it was determined that underpinning is no longer needed. Contract bid item SR-9 is for a total amount of \$116,000 measured by LF. However, CM team does not anticipate to recover the full amount because contractor may be entitled to retain general conditions cost and some excavation cost that was already performed but encumbered in Bid Item SR-9. Agreed credit of (\$58,000) to be included in Trend #60. CLOSED, NO FURTHER ACTION	
1251-0009	082-0009	Additional cost for police officers and/or Parking Control Officers for traffic control.	4	CMB-0038	Agree	06/01/11	+261,584	Contract bid item TR-7 for manual traffic control in the amount of \$120,000 is insufficient to control traffic for the duration of the contract. The \$120,000 allowance only equates to one police officer for a duration of 7.5 months. At a minimum, it is anticipated that one police officer or PCO will be needed at Stockton/Post for the entire contract duration of 16 months. Additionally, one PCO is required for each intersection at Geary/Stockton and O'Farrell/Stockton. COMPLETE, NO FURTHER ACTION; CMOD #4	CMOD #4 Approved
1251-0010	082-0010	Accelerate Stockton east between O'Farrell and Market	1				+27,409	Contractor needed to rent additional excavators to work concurrently with the other block on Stockton between O'Farrell and Market. Amount: \$27,409; COR #25 COMPLETE, NO FURTHER ACTION; CMOD #3	CMOD #3 Approved
1251-0011	082-0011	Potholing at 4th/Howard for PUC sewer design	1					Request from MOS utility design team to pothole for the intercept of a 36" force main sewer and 96" sewer. PUC requested that this be done in order to ensure that we have accurate utility information to avoid costly change orders during construction. Per direction from CMB on January 18, 2012, this request is denied. COR #50, PCC #6 CLOSED, NO FURTHER ACTION: Per direction from CMB on January 18, 2012, this request is denied.	
1251-0012	082-0012	Additional cost to lower the AWSS at O'Farrell, east of Stockton, due to numerous existing utility conflicts.	2	CMB-0042, CMB-0050	Agree	8/3/2011, 9/21/2011	+278,351	The AWSS is in conflict with AT&T, PG&E and several other utilities and needs to be installed under all these utilities at about 11' deep (instead of 6' depth as noted in Plan AW-501.4, sheet note #5). During negotiations with the Contractor several items of work were found to be missing for the original cost estimates which increase the amount to \$278,351. RFI #76, COR #31 COMPLETE, NO FURTHER ACTION; CMOD #6	CMOD #6 Approved

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1251-0013	082-0013	Accelerate start of construction in front of Macys West by trenchless construction method	7				-0-	Micropile installation on Stockton east between O'Farrell and Market has proven to be much slower than anticipated. To mitigate this potential delay, contractor requested to start construction in front of Macys West. COR 32 (CMB 0055 approval - see also Trend CN1251 #'s 04 & 10) COMPLETE, NO FURTHER ACTION; CMOD #3 (No Cost Change)	CMOD #3 Approved
1251-0014	082-0014	Increase in Bid Item WD-10, Allowance for Additional Excavation and Backfill.	3	CMB-0055	Agree	09/14/11	+191,779	This allowance is for the contractor to perform additional excavation, backfilling and restoration associated with the water tie-ins and capping for the distribution piping system. The contractor has performed two water service tie-ins at an average cost of \$14,000 per tie-in. The current number of tie-ins and capping is 35 separate points. This amounts to a total cost of \$490,000. The current contract allowance amount is \$100,000, therefore an additional \$390,000 will be needed to augment is bid item. CMB made a partial approve of up to \$200K. The initial Contract Modification to supplement this allowance is in the amount of \$191,778.62. RE's cost analysis of this trend confirms that the initial CMod amount of \$191,778.62 is sufficient to cover for all water tie-in/capping work. COMPLETE, NO FURTHER ACTION; CMOD #9	CMOD #9 Approved
1251-0015	082-0015	Additional traffic signal work at Post/Stockton	1				+17,530	Modification of the traffic signal at Post/Stockton is required to implement the detour shown in contract plan TR- 010. There are no bid item to bill this work. COR #19 COMPLETE, NO FURTHER ACTION; CMOD #8	CMOD #8 Approved
1251-0016	082-0016	Additional traffic signal work at Sutter/Mason	2				+32,054	Existing conduits shown in Plan ET-101 differs from what is actually in the field. City's response to RFI 73 directs contractor to install new conduits and conductors. RFI #73; COR #33 COMPLETE, NO FURTHER ACTION; CMOD #8	CMOD #8 Approved
1251-0017	082-0017	Furnish and install AT&T Manhole 5830 on O'Farrell Street	6	CMB-0051	Agree	09/21/11	+25,000	AT&T was supposed to hire its own subcontractor to furnish and install all AT&T vaults in CN 1251. AT&T requested SFMTA for Synergy to perform this work as change order to CN 1251. AT&T agreed to reimburse SFMTA (\$25000) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #7	CMOD #7 Approved
1251-0018	082-0018	Furnish and install AT&T Manhole 5829 on Geary Blvd.	6	CMB-0051	Agree	09/21/11	+31,000	AT&T was supposed to hire its own subcontractor to furnish and install all AT&T vaults in CN 1251. AT&T requested SFMTA for Synergy to perform this work as change order to CN 1251. AT&T agreed to reimburse SFMTA (\$31,000) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #7	CMOD #7 Approved
1251-0019	082-0019	Extend joint trench and modify existing AT&T Manhole 403 on Ellis Street.	6	CMB-0057	Agree	10/26/11	+31,000	AT&T was supposed to furnish and install AT&T vault #5833 on Ellis Street. The current design was to intercept the existing AT&T conduit in the middle of Ellis Street. It was discovered that the existing AT&T conduit actually run adjacent to the southern curb line along Ellis Street. Therefore, AT&T requested SFMTA for Synergy to extend the joint trench approximately 200 feet to the West and tie into their existing AT&T vault #403. This work will also require Synergy to enlarge wault #403 to accept the additional conduit. This additional work for AT&T will need to be reimbursed to SFMTA through the Form B process. Note: The agreed amount (\$31,000) is for enlargement of vault #403 only; the additional 200 feet of trench to be captured in the JT bid items. (See Trend 60) COR #43 COMPLETE, NO FURTHER ACTION; CMOD #11	CMOD #11 Approved
1251-0020	082-0020	Change PG&E conduit material from PVC to GRS on west side of Stockton between Geary and Post		CMB-0058	Agree	11/02/11	+19,537	PG&E requested to use GRS material in lieu of PVC in areas where PG&E conduits were expected to be exposed and temporary supported during future UMS station construction. PG&E agreed to reimburse SFMTA (\$19,537) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #21	CMOD #21 Approved
1251-0021	082-0021	Revise PG&E service points and layout of primary lines at various locations, and delete Muni Vault 1850 A at Stockton/Ellis.	6					PG&E made changes to the locations of the service points and layout of some of the primary lines. In addition, due to changes to the limits of the UMS Station on Ellis Street, it was determined that Muni Vault 1850A is no longer needed. Cost for this trend in captured in Trend #31 or CMod #12. CLOSED; NO FURTHER ACTION. Cost for this trend is captured in Trend #31/CMod #12	

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1251-0022	082-0022	Change OCS supports at SF Hilton Hotel on Mason Street from embedded eyebolts to poles w/foundations.	7					During the design phase the representatives of the Hilton Hotel agreed to and signed a license agreement with the SFMTA to allow embedded eyebolt supports. Hilton's Dir of Property Ops now wants to have OCS poles rather than the embedded building eyebolt supports. However, the OCS designer was able to revise the OCS design to eliminate the need for either eyebolts or poles in front of Hilton Hotel, resulting in a \$2,000 credit. CLOSED; NO FURTHER ACTION. Applicable bid items to be adjusted accordingly, See Trend #60.	
1251-0023	082-0023	4th Street & Folsom Trolley Bypass	1	CMB-0065	Agree	1/25/2012, 2/29/12	+405,440	SFMTA Operations has requested a bypass be installed at 4th Street and Folsom Street. \$242,619 in labor costs for OCS installation has not been negotiated yet. 1/25: Condition agreed upon verification material from Contractor to be procured is available. (Verified 02/01/12). 02/29: CMod negotiated cost has been revised to incorporate original three items and the add! OCS work on Folsom St. COR #52; PCC #7 Updated projected cost impact from \$490,000 to \$405,440. CMod #12 (Formally CMod #15) COMPLETE, NO FURTHER ACTION; CMOD #12	CMOD #12 Approved
1251-0024	082-0024	Install a 5" slurry wall between the gas line and wet utilities if the separation is less than 3 feet	6	CMB-0059	Agree	11/16/2011, 05/02/12	+201,411	As a new requirement, PG&E had requested that a 5" slurry wall be installed between the gas line and wet utilities where the separation between the 2 utilities is less than 3 feet. PG&E agreed to reimburse SFMTA (\$201,410) through the Form B process. COR #58 COMPLETE, NO FURTHER ACTION; CMOD #19	CMOD #19 Approved
1251-0025	082-0025	Additional PG&E conduit crossings at Geary and O'Farrell to minimize service interruption during future UMS Station construction	6					PG&E requested to install additional conduits crossing Stockton Street at Geary and O'Farrell to minimize service interruption during future UMS Station construction. PG&E agreed to reimburse SFMTA through the Form B process. This item is captured under applicable JT Bid item, see Trend 60. CLOSED; NO FURTHER ACTION. Item is captured under applicable JT Bid Item, See Trend 60.	
1251-0026	082-0026	Install cantilever footing in lieu of regular OCS foundation at 2 locations on Mason Street between Geary and O'Farrell	2					The sub-basement in the public parking garage at O'Farrell/Mason extends beyond the property line up to the curb line. Therefore, regular foundations as per original design could not be installed. CLOSED; NO FURTHER ACTION. Item is captured under applicable OCS Bid Item, See Trend 60.	
1251-0027	082-0027	Accelerate installation of AT&T facilities in order for AT&T to start cut-over sooner	1	CMB-0056	Agree	11/30/11	+281,435	Acceleration is necessary to avoid potential delay impacts to Central Subway follow-on contracts. COR #40 COMPLETE, NO FURTHER ACTION; CMOD #10	CMOD #10 Approved
1251-0028	082-0028	Furnish and install AT&T Manholes 5828 (Stockton), 5831 (Geary), 5832 (O'Farrell) and 113 (O'Farrell)	6	CMB-0057	Agree	10/26/11	+157,000	AT&T was supposed to hire its own subcontractor to furnish and install all AT&T vaults in CN 1251. AT&T requested SFMTA for Synergy to perform this work as change order to CN 1251. AT&T agreed to reimburse SFMTA (\$157,000) through the Form B process. COR #43 COMPLETE, NO FURTHER ACTION; CMOD #11	CMOD #11 Approved
1251-0029	082-0029	Rebuild existing AT&T vault 133 at Post/Stockton and demolish existing AT&T vaults 403 (Ellis) and 113 (O'Farrell)	6					Vault 133 rebuild is superseded by Trend 40. Demolition of existing vaults 403 and 113 is superseded by Trend 43 CLOSED; NO FURTHER ACTION. Demo of exiting vaults 403 and 113 are superseded by Trend 43. (See CMOD #23)	
1251-0030	082-0030	Enlarge existing PG&E vault 873 at SW Geary/Stockton	6	CMB-0058	Agree	11/02/11	+46,366	PG&E asked SFMTA to enlarge vault 873. PG&E agreed to reimburse SFMTA (\$46,366) through the Form B process. CMB approved a NTE amount of \$40K COMPLETE, NO FURTHER ACTION; CMOD #21	CMOD #21 Approved
1251-0031	082-0031	Additional PG&E conduits crossing O'Farrell on east side of Stockton (Task Order #32)	6	CMB-0058	Agree	11/02/11	+17,193	PG&E asked SFMTA to install additional conduits. PG&E agreed to reimburse SFMTA (\$17,193) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #21	CMOD #21 Approved

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1251-0032	082-0032	Excavation and restoration cost for PG&E gas tie- in and kill holes.	6	CMB-0059	Agree	11/16/2011, 05/02/12	+92,292	PG&E gas drawings were not included in the bid package and there was no bid item to capture this work. Gas drawings was issued by PG&E in June 2011. PG&E agreed to reimburse SFMTA (\$92,292) through the Form B process. Updated projected cost impact from \$202,400 to \$169,087 due to reduction in number of kill holes from 18 to 15. 04/11: Discovery of actual number of Kill/Tie locations being 26 instead of 15 will require confirmation from PG&E of the locations and the new cost of scope of work. COMPLETE, NO FURTHER ACTION; CMOD #19	CMOD #19 Approved
1251-0033	082-0033	Install secondary enclosure wall at One Stockton (Apple Store)	1	CMB-0068	Agree	03/07/12	+408,700	Additional enclosure wall is design initiated change. COR #47, PCC #9 Updated projected cost impact from \$262,484 to \$408,700. 39 Calendar Day Time Extension COMPLETE, NO FURTHER ACTION; CMOD #13 (formally CMOD #14)	CMOD #13 Approved
1251-0034	082-0034	Install temporary support as required to protect existing live utilities that are encroaching into the City right-of-way in front of 17-25 Stockton Street.	2	CMB-0069	Agree	04/04/12	+337,548	Existing utilities that are in active service were discovered in the City public right-of-way and are obstructing the performance of Contract work. Worst case scenario - "Not to Exceed" value) CM team will report actual amount value at a later date COR #71 CMB agreed to a Not-to-Exceed amount of \$346,456 on 4/4/12. All physical work was scheduled to complete by 4/13/12 COMPLETE, NO FURTHER ACTION; CMOD #17	CMOD #17 Approved
1251-0035	082-0035	Potholing on Stockton between Post and Geary for UMS Station design	1					UMS Design Team requested 1251 to pothole (6'Wx12'Lx8'D) on Stockton between Post and Geary to locate existing piles and tie-backs at Union Square. Cost for this scope of work from the Contractor is \$19,870.73. Per direction from the CMB on Jan 18th this request is denied and the DP2 designer will cover this potential future obstruction with a note on the drawings. COR #53 CLOSED; NO FURTHER ACTION. Per direction of CMB on 1/18/12, this request is denied and DP2 Designer will cover this potential future obstruction with a note on the drawings.	
1251-0036	082-0036	Install three 6" PG&E conduits from vault 5800 to PG&E "A" pullbox at 4th/Bryant.	6					CN 1252 Contract is requesting 1251 to install PG&E conduits in order to bring power in advance of the tunnel equipment arrival. The scope of work, which involves trenching at the busy 4th/Bryant intersection, was part of the 1252 contract, hence, a credit of same amount (\$54,892.07) to be due back to 1252. Based upon a field meeting and discussions with BIH on Jan 17th this work will be done under CN 1252 as originally planned. COR #55 CLOSED; NO FURTHER ACTION. Based on field meeting with BIH on 1/17/12; this work will be completed under CN 1252 as planned.	
1251-0037	082-0037	Install sewer lateral from the Gucci building (240 Stockton) to the main sewer on Maiden Lane. Work will involve plumbing modification inside building to raise invert.	3	CMB-0078	Agree	09/12/12	+27,428	After field investigation, the existing sewer lateral was found to connect to the Stockton main near Geary. However, the location where the lateral is connected to the main is inside the footprint of the UMS station, in which the main is shown in the contract plan to be slurry filled. The contract plan shows the lateral to be connected to the main on Maiden Lane but is not possible due to invert problem. At the CMB meeting on 1/18/12, Albert Hoe reported that he had instructed the design team during the design phase to investigate this lateral and make the connection to the sewer main at Maiden Lane. RE was asked to investigate if this could be a possible error and omission by the sewer design, (See Trends #44 and 45) COMPLETE, NO FURTHER ACTION; CMOD #18	CMOD #18 Approved
1251-0038	082-0038	Reimburse Synergy for JCDecaux work to remove kiosks	1	CMB-0064, CMB 0080	Agree	1/04/2012, 10/24/12	+29,273	JCDecaux refused to remove the remaining (2EA) kiosks without being paid for work already completed. The CMB approved on 1/04/12 Task Order No. 35 (Removal of 3EA sidewalk kiosks) as requested for the work already completed. On 10/24/12 the CMB approved Trend #38 removal of the remaining 2EA kiosks; work already completed and paid for as part of the approved CMB 0064 dated 01/04/12 for a total of 5EA kiosks removed . Total work priced at 529,268. COMPLETE, NO FURTHER ACTION; CMOD #22	CMod #22 Approved
1251-0039	082-0039	Furnish and install 2ea benches along 5th Street	1				+4,752	Requested by Muni Operation. COMPLETE, NO FURTHER ACTION; CMOD #22	CMod #22 Approved

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1251-0040	082-0040	Furnish and install AT&T Manholes 133 at Post/Stockton	6	CMB-0070	Agree	04/11/12	+45,000	AT&T requested SFMTA for Synergy to rebuild manhole 133 at Post/Stockton. COR #64 AT&T agreed to reimburse SFMTA (\$45,000) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #14	CMOD #14 Approved
1251-0041	082-0041	Install additional 55 LF of AT&T trench to extend conduits from vault 5832 to vault 113 on O'Farrell Street	6	CMB-0070	Agree	04/11/12	+23,704	AT&T requested SFMTA for Synergy to extend their conduit from vault to vault instead of wye-casting into exiting duct bank. COR #63 AT&T agreed to reimburse SFMTA (\$23,704) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #14	CMOD #14 Approved
1251-0042	082-0042	Install additional 95 LF of AT&T trench to extend conduits from vault 5831 to vault 129 on Geary Blvd.	6	CMB-0070	Agree	04/11/12	+31,525	AT&T requested SFMTA for Synergy to extend their conduit from vault to vault instead of wye-casting into exiting duct bank. AT&T agreed to reimburse SFMTA (\$31,525) through the Form B process. COR #62 COMPLETE, NO FURTHER ACTION; CMOD #14	CMOD #14 Approved
1251-0043	082-0043	Force account work for demolition of existing AT&T vaults 113 (Post/Stockton) and 403 (Ellis)	6	CMB-0076	Agree Conditionally	10/03/12	+52,607	Agreed cost shown in Trends 29 and 40 is for installing vaults only. Cost to demo existing vaults is tracked on force account (estimated cost at \$15k each vault). AT&T agreed to reimburse SFMTA (\$52,607) through the Form B process. CMB Agreed contingent on receipt of confirmation letter from AT&T for costs associated with these three trends (CMB 0076 approval - see Trend CN1251 #'s 72 & 80) OMPLETE, NO FURTHER ACTION; CMOD #23	CMOD #23 Approved
1251-0044	082-0044	Install new sewer lateral from Macys West on O'Farrell including plumbing modification inside Macy's building.	3	CMB-0078	Agree	09/12/12	+11,438	Contract plan SW-4 shows an existing lateral to be connected to new main. However, the 8" lateral is too big to be connected directly to the new 14" main necessitating a new connection to the manhole. However, numerous existing utilities were in the way and required installation of a new lateral at a higher elevation. Due to the raised lateral invert, modification to the building is also needed. COMPLETE, NO FURTHER ACTION; CMOD #18	CMOD #18 Approved
1251-0045	082-0045	Install new 2 each sewer laterals on Stockton between Post and Geary	3	CMB-0078	Agree	09/12/12	+30,260	Contract plan SW-3 shows 2 each existing laterals coming from the Union Square garage to be connected to the new main at approximate sta 128+55. However, the laterals were found to be connected to the downstream end of the existing main (toward Geary), which is called for to be abandoned in 1251 to make room for the future station. (See Trends #37 and 44) COMPLETE, NO FURTHER ACTION; CMOD #18	CMOD #18 Approved
1251-0046	082-0046	Additional cost for enlarging PG&E vault 584 on O'Farrell east of Stockton	6				+80,000	The two (2) existing PG&E duct banks that were supposed to be intercepted by vault 584 were wider than shown on plan. Vault 584 was needed to be enlarged in order to capture the two (2) ductbanks. PG&E agreed to reimburse SFMTA (\$80,000) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved
1251-0047	082-0047	Enlarge Muni Vault 900A on Stockton between Post and Geary	2	CMB-0082	Agree	10/31/12	+15,357	Contract plan JT-301 calls for an intercept vault to capture 2 (E) Muni ductbanks (DB). These DBs were found to be farther apart than shown on plan. The intercept vault needs to be widened. (CMB 0082 approval - see Trend CN1251 #'s 47, 58 & 78) COMPLETE, NO FURTHER ACTION; CMOD #26	CMOD #26 Approved
1251-0048	082-0048	Additional cost and time for stuck auger during micropile drilling	2					Contractor's hollow stem auger got stuck during drilling of micropile #27C in front of 17 Stockton. Contractor claims differing condition as cause for the stuck auger. Contractor is asking for 1 day compensable time extension. SFMTA is reviewing claim for entitlement. COR #67 RE Denied COR (City Letter 26); however Contractor will most likely send rebuttal. CLOSE); NO FURTHER ACTION.	
1251-0049	082-0049	Additional cost and time for added rebar and coordination with 17-19 Stockton Owner's contractor	2	CMB-0083	Agree	11/07/12	+9,058	Existing footing of One Stockton was found to be recessed from property line. City's response to RFI 171 called for additional rebar to compensate for the gap between back of new enclosure wall and existing footing. Also, the Owner's contractor of 17-19 Stockton asked that Synergy clear his work area so he can pour the primary wall and bring in his new switchgear. Synergy is asking 2 days compensable time extension. (CMB 0083 approval - see Trend CN1251 #'s 53, 59, and 64) COMPLETE, NO FURTHER ACTION	CMOD #27 Approved

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1251-0050	082-0050	Additional cost to install a Type 770 pole foundation at a different location, install 2 each DPT mast arms and demo existing wall in conflict with OCS footing	2	CMB-0074	Agree	08/15/12	+48,898	Type 770 pole foundation at SW 5th/Folsom could not be installed per plan due to a conflict with a cistern. Only solution is to remove an existing pole foundation (recently installed in 1251 as contract work) to make room for the 770 pole foundation. At 5th/Folsom, 2 DPT mast arms (not shown in original plan) need to be installed. At Pole #811, an existing concrete wall is in conflict with pole foundation. (CMB 0074 approval - see Trend CN1251 #'s 67, 74 & 75) COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved
1251-0051	082-0051	Intercept existing PG&E duct bank and terminate into vault 5464 at Market/Ellis	6				+23,633	PG&E requested to reroute existing duct bank running north out of MH 1803 at 4th/Pioneer Place into MH 5464 at Market/Ellis PG&E agreed to reimburse SFMTA (\$23,633) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved
1251-0052	082-0052	Reroute unforeseen existing waterline on Geary east of Stockton	2	CMB-079	Agree	10/10/12	+27,234	An unforeseen existing waterline was found to be in conflict with PG&E vault 573 and needs to be rerouted per City's response to RFI #182. (CMB 0079 approval - see Trend CN1251 #'s 65 & 70). This is potentially a E&O issue due to unforeseen existing waterline on discovered along Geary Street (east of Stockion Street) not sown in the contract drawings. COMPLETE, NO FURTHER ACTION; CMOD #28	CMOD #28 Approved
1251-0053	082-0053	Additional cost for premium to accelerate contract work	1	CMB-083	Agree	11/07/12	+10,591	SFMTA directed Synergy to accelerate work to advance PG&E and AT&T cut-over and allow CN 1252 Contractor to start work at UMS COR #74 PG&E agreed to reimburse SFMTA (\$10,590) through the Form B process. 11/07/12 (CMB 0083 approval - see Trend CN1251#'s 49, 59, and 64) COMPLETE, NO FURTHER ACTION; CMOD #27	CMOD #27 Approved
1251-0054	082-0054	Additional waterproofing at FIDM and north end of Crate & Barrel	2				+8,151	Sidewalk in front of FIDM and north end of Crate & Barrel did not have a sub-sidewalk basement, hence the original plan did not call for waterproofing of the primary wall. While excavating for the joint trench, contractor found the existing waterproofing to be spalling and peeling off from the primary wall. COR #72 COMPLETE, NO FURTHER ACTION; CMOD #22	CMOD #22 Approved
1251-0055	082-0055	Install Swiveloc lids on all PG&E vaults	6					PG&E requested SFMTA to add this scope to the 1251 contract for safety reason. COR #72 SFMTA decided to defer this work to the 1252 contract. COMPLETE, NO FURTHER ACTION;	
1251-0056	082-0056	Additional work on force account related to sewer installation	2				+45,156	Additional work due to unforeseen and differing conditions during installation of sewer. COMPLETE, NO FURTHER ACTION; CMOD #15	CMOD #15 Approved
1251-0057	082-0057	Additional work on force account related to water installation and NRG vault demolition	2				+39,599	Additional work due to unforeseen and differing conditions during installation of water and demolish existing NRG vaults that are in conflict with utility installation. COMPLETE, NO FURTHER ACTION; CMOD #16	CMOD #16 Approved
1251-0058	082-0058	Additional streetlight conduit on 5th Street between Harrison and Bryant	2	CMB-0083	Agree	10/31/12	+17,754	The existing streetlight pullboxes new cables were supposed to be connected to per contract plan did not have power. New conduit needs to be install from the power source. COR #75 (CMB 0082 approval - see Trend CN1251 #'s 47, 76 & 78) COMPLETE, NO FURTHER ACTION; CMOD #25	CMOD #25 Approved
1251-0059	082-0059	Accelerate contract work at Barney's front	1	CMB-0083	Agree	11/07/12	+16,948	As a result of numerous meetings and complaints by Barneys, it was decided to accelerate contract work in order to restore Barneys sidewalk earlier (CMB 0083 approval - see Trend CN1251 #'s 53, 49, and 64) COMPLETE, NO FURTHER ACTION; CMOD #27	CMOD #27 Approved
1251-0060	082-0060	Final Bid Item Reconciliation	4				(508,961)	Bid item analysis for entire contract as of 6/12/12.	CMOD #30 Approved
1251-0061	082-0061	Excavate for PG&E cutover at 177 Stillman	6				+7,424	PG&E requested Synergy to excavate for PG&E cutover at 177 Stillman. Reference document: Email from Michael Lightstone dated 12(9/11 PG&E agreed to reimburse SMTA (57.424) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved

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1251-0062	082-0062	Additional waterproofing at Macys Men's wall	2				+24,774	Contract did not call for waterproofing at Macys Men's wall. However, when contractor dug for the joint trench, it was found that the existing waterproofing has deteriorated and needed to be replaced. COR# 20 COMPLETE, NO FURTHER ACTION; CMOD #22	CMOD #22 Approved
1251-0063	082-0063	Excavation and restoration cost for PG&E gas tie- in and kill holes. Part II	6				+56,458	After completion of Part I (see trend 32), PG&E had offered to self-perform the excavation and restoration of the gas tie-in/kill holes because PG&E had crews available to perform the work. However, PG&E no longer have available crews, hence Synergy had to continue and finish excavating and restoring the last tie-in/kill holes. PG&E agreed to reimburse SFMTA (S56,458) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved
1251-0064	082-0064	Accelerate finish and detail work of AT&T and PG&E vaults	1	CMB-0083	Agree	11/07/12	+4,704	In order to expedite turn-over of AT&T and PG&E vaults, SFMTA directed Synergy to accelerate the detailing and finish work of these vaults. SFMTA will pay Synergy premium cost for OT hours. 11/07/12 - (CMB 0083 approval - see Trend CN1251 #'s 53, 59, and 49) COMPLETE, NO FURTHER ACTION; CMod #27	CMOD #27 Approved
1251-0065	082-0065	Additional fittings for AWSS lateral and chipping of pole foundation at Market/Ellis	2	CMB-0079	Agree	10/10/12	+20,412	An existing Muni pole foundation is in the way of the AWSS lateral. Additional fittings are required to complete contract work. (CMB 0079 approval - see Trend CN1251 #'s 52 & 70) This is potentially an E & O issue due to an existing Muni pole foundation is in the way of the AWSS lateral. COMPLETE, NO FURTHER ACTION; CMOD #28	CMOD #28 Approved
1251-0066	082-0066	Intercept PG&E conduits at Vault 573 at Geary east of Stockton	6				+6,466	During installation of PG&E intercept vault 573, PG&E had incorrectly identified the conduits to be intercepted. This error was discovered during cut-over process by PG&E. PG&E agreed to reimburse SFMTA (\$6,466) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved
1251-0067	082-0067	Additional feeder span, no-bo insulator and adjustment of guywire for the Folsom OCS bypass	3	CMB-0074	Agree	08/15/12	+32,149	SFMTA Electrical Designer had pointed out the new Folsom Bypass does not have enough capacity to power the new OCS necessitating installation of feeder spans. Also, adjustments to the guywire are necessary to mitigate conflict with new signal mast arms. COR #76 7/25/12 - RE presented COR to CMB; direction given to develop one CMod with all remaining items to be purchased for the new OCS bypass. (CMB 0074 approxal - see Trend CN1251 #'s 50, 74 & 75) COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved
1251-0068	082-0068	Extended Overhead cost from July 19, 2012 to August 16, 2012	1	CMB-0075	Agree Conditionally	10/03/12	+106,967	Contract is expected to be extended beyond the approved July 18, 2012 completion due to the following reasons: contractor was slowed due to accommodation of AT&T and PG&E cut-over, for example, contractor has to provide windows of time for AT&T to occupy its work space to provide continuity and efficiency for AT&T cut-over, contractor has to advance cleaning and detailing of vaults to turnover to AT&T and PG&E, these work are typically done as punchist, contractor now has to sequence work and reallocate resources; SFWD cut-over is taking longer than expected; PG&E gas cut-over was delayed due to inability to access Armani building, this delay held up completion of sever MH, SFWD connection and restoration on OFarrell east; added change order work, i.e. additional PG&E conduit at vault 573 and additional excavation for AT&T cut-over at 240 Stockton CMB Agreed contingent on receipt of letter confirming e-mail as presented in the meeting and content viewed related to agreement and remaining actions and release of funds. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #29 Approved
1251-0069	082-0069	Removal of abandoned PG&E gas valve (8each) and install anodes	6				+4,737	PG&E asked Synergy to remove all abandoned gas valves (8each) PG&E agreed to reimburse SFMTA (\$4,737) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved

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1251-0070	082-0070	Core drill primary wall and install interior plumbing at Armani and Disney for the fire service water cutover	2	CMB-0079	Agree	10/10/12	+14,034	Existing fire service inside the building is a thin-wall steel pipe that extends out to the previously existing sub- sidewalk basement. However, 1251 had backfilled the subsidewalk basement per contract, which now made the steel pipe susceptible to corrosion. SFWD does not want to tie-in to the steel pipe due to corrosion issue plus the fact that the pipe is thin walled, which makes welding almost impossible. A ductile iron pipe needs to be installed from the main and into the building. COR #77 (CMB 0079 approval - see Trend CN1251 #'s 52 & 65) COMPLETE, NO FURTHER ACTION; CMOD #28	CMOD #28 Approved
1251-0071	082-0071	Install a new 8" backflow preventer for the fire service inside Macys Men's building	6					The new water main (installed in the 1251 Contract) is closer to the property line than the existing backflow preventer. State law stipulates that a backflow preventer be installed in between the property's fire suppression system and the water main. The SFWD refuses to make this connection until a proper backflow preventer is installed. SFMTA will insist on Macys to install its own backflow preventer. CLOSED; NO FURTHER ACTION.	
1251-0072	082-0072	Additional AT&T trench from new vault 5829 to existing vault 127 on Geary east of Stockton	6	CMB-0076	Agree	10/03/12	+23,993	AT&T requested new conduits to maintain continuity between the 2 vaults. AT&T agreed to reimburse SFMTA (\$23,993) through the Form B process. RE Tracking work on FAR CMB Agreed contingent on receipt of confirmation letter from AT&T for costs associated with these three trends (CMB 0076 approval - see Trend CN1251 #'s 43 & 80) COMPLETE, NO FURTHER ACTION; CMOD #14	CMOD #14 Approved
1251-0073	082-0073	Additional work to install water and electrical utilities for Flower Stand on Geary west of Stockton	1				+17,966	Contract bid allowance for providing utility services for flower stands (UD-14) had been exhausted during relocation of 2 flower stands. A third and final flower stand is still needed to be relocated. COMPLETE, NO FURTHER ACTION; CMOD #22	CMOD #22 Approved
1251-0074	082-0074	Traffic Signal modification at 5th/Folsom	1	CMB-0074	Agree	08/15/12	+16,429	Due to installation of OCS bypass on Folsom between 4th and 5th Streets, a left turn signal is required at 5th/Folsom. Additional signal heads and modification to the existing traffic signal is necessary. RE Tracking work on FAR (CMB 0074 approval - see Trend CN1251 #'s 50, 67, & 75 also). COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved
1251-0075	082-0075	Unforeseen conditions related to pole foundation installation for the Folsom OCS Bypass	2	CMB-0074	Agree	08/15/12	+12,568	Contractor encountered unforeseen concrete and brick substructures and abandoned utility lines. RE Tracking work on FAR (CMB 0082 approval - see Trend CN1251#'s 47, 58 & 78) COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved
1251-0076	082-0076	Adjustment to OCS on Mason Street	2/3	CMB-0082	Agree	10/31/12	+14,988	Modify bracket arm at existing Pole #511 to alleviate tension load and bending of pole. Realign trolley wire on Mason between Geary and Eddy to smoothen transition when shifting from right lane to left lane. Also, add intermediate guywire to prevent excessive sagging of bracket arms at various locations. RE tracking work on FAR (CMB 0082 approval - see Trend CN12514% 47, 58 & 78) COMPLETE, NO FURTHER ACTION; CMOD #26	CMOD #26 Approved
1251-0077	082-0077	Additional work related to Qwest, TCG and UCCO facilities	2	CMB-0081	Agree Conditionally	10/31/12	+37,181	Qwest, TCG and UCCO requested Synergy to tie-in their existing conduits into the new vaults that Synergy installed per contract. The utility companies are responsible for connecting existing conduits into new vaults, therefore, this request is considered extra work. Private Utilities companies agreed to reimburse SFMTA (\$37,181) through the Form B process. RE Tracking work on FAR CMB agreement contingent upon CMod package to include evidence from all utilities that cost are reimbursable to SFMTA through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #25	CMOD #25 Approved

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1251-0078	082-00	078	Unforeseen conditions encountered during excavation and installation of OCS poles along Mason and 5th Streets.	2	CMB-0082	Agree	10/31/12		Several obstructions, i.e. buried concrete, boulders, brick, abandoned utilities were discovered during excavation and installation of OCS poles along Mason and 5th Street. RE Tracking work on FAR (CMB 0082 approval - see Trend CN1251 #'s 47, 58 & 76) COMPLETE, NO FURTHER ACTION; CMOD #26	CMOD #26 Approved
1251-0079	082-00	079	Additional work related to installation of PG&E Vaults 467, 571, 573, 586 and 594 including joint trench leading to these vaults	2				+44,530	Unforeseen conditions were encountered during installation of select PG&E vaults including joint trenches leading to these vaults. PG&E agreed to reimburse SFMTA (\$44,530) through the Form B process. RE Tracking work on FAR COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved
1251-0080	082-00	080	Additional work related to installation of AT&T Vaults 5628, 5829, 5830, 5831, 5832 and 5833 including joint trench leading to these vaults	2	CMB-0076	Agree	10/03/12	+56,806	Unforeseen conditions were encountered during installation of select AT&T vaults including joint trenches leading to these vaults. AT&T agreed to reimburse SFMTA (\$56,805) through the Form B process. CMB Agreed contingent on receipt of confirmation letter from AT&T for costs associated with these three trends (CMB 0076 approval - see Trend CN1251 #'s 43 & 72) COMPLETE, NO FURTHER ACTION; CMOD #23	CMOD #23 Approved
1251-0081	082-00	081	PG&E concrete cover versus CDF on electrical duct bank	6	CMB-0107	Agree	02/13/13	+43,882	Contract Plan JT-014 calls for CDF cover on PG&E duct bank. However, PG&E requested to use regular concrete due to heat dissipation problem with CDF. PG&E agreed to reimburse SFMTA (\$43,881) through the Form B process. 12/19/12 - Presented to CMB, direction given to finalize cost and obtain a Form B agreement with PG&E 02/13/13 - Revised CMod presented to CMB. PG&E agreed with negotiated reimbursement amount. COMPLETE, NO FURTHER ACTION	CMOD #24 Approved
Contract 1251 Total	S							+3, 9 62,032	Total Changes to the contract in the amount of 3,962,032 represents an UNDERRUN of allocated contingency in the amount of \$1,405,265.32. Changes that will be Utility Reimbursement credits through the Form B process in the amount of \$1,224.828 will increase the UNDERRUN. Final Contract Closeout Total \$20,794,581 will be reduce by \$7,618,112 Utility Reimbursement credits for a Final Program cost of \$13,176,469 for CN 1251	
Contract 1252	COR No.	PCC No.	1252 Change Description	Change Type	CMB Change No.	Configuration Management Board Agree/Disagree	Decision Date	Actual/Forecast	Comments	Contract Modification No.
1252-0001a	1		AWSS Conflict w/ Low Pressure Water	6	CMB-0091	Agree to Merit Agree to Cost	10/10/12 01/16/13	+13.990	AWSS contract work was made more difficult by the proximity of a water line which was closer than indicated on UT-501. See COR 008 for TIA request. 10/10/12 - Merit info presented to CMB - Agreed 0/1/6/13 - EE brought to CMB for cost NOT TO EXCEED \$16,900 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #29	CMOD #29 Executed
1252-0001b	1		AWSS Conflict w/ Low Pressure Water					+2,914	CMOD #32 Executed	
1252-0002a	2		AWSS Add. Tie-Rods 4th-Harrison	6	CMB-0086	Agree to Merit Agree to Cost	10/10/12 12/19/12	+45,792	The AWSS line must be restrained a certain distance beyond the 90 degree elbow we are installing under contract 1252. The 1252 contract work includes excavating on both sides of this 12-feet portion of pipe. Additional work scope (per Michael Smith @ DPW): Station 162+80 to 162+90 - Restrain the existing 12-inch tee to the existing pipe north of the tee. Restrain any other joints that are not restrained on the existing pipe up to the new pipe to be installed. 10/10/12 - Merit info presented to CMB - Agreed 12/19/12 - EE brought to CMB for cost NOT TO EXCEED \$58,000 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #29	CMOD #29 Executed
1252-002b			AWSS Add. Tie-Rods 4th-Harrison					+9,337	CMOD #32 Executed	

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1252-0003a	3		AT&T Vault Conflict-4th & Harrison	6	CMB-0092	Agree to Merit Agree to Cost	10/10/12 01/16/13	+13,263	After excavation of the roadway surface and subgrade at Fourth and Harrison streets an AT&T vault was discovered to be in conflict with the current alignment of the 42° RCP sever main. Verbal authorization was given by an AT&T representative to make modifications to the vault. COR 003 has been submitted by BIH in response to this issue. Work is to be charged via SFMTA Form B agreement to AT&T. 10/10/12 - Merit info presented to CMB - Agreed 01/16/13 - EE brought to CMB for cost NOT TO EXCEED \$21,089 - Agreed 04/01/13 - CM team must obtain in writing from AT&T a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #29	CMOD #29 Executed
1252-0003b	3		AT&T Vault Conflict-4th & Harrison					+2,749	CMOD #32 Executed	
1252-0004	6		PG&E live electrical delays	6	CMB-0088	Agree to Merit Agree to Cost	11/28/12 1/9/2013	+7,402	PG&E lines indicated on contract drawing UD-502 thru 504 were to be abandoned yet were not yet abandoned when BiH started work. They were abandoned on 5/21. 11/28/12 - Merit info presented to CMB - Agreed 01/09/13 - Eb brought to CMB for cost NOT TO EXCEED \$7,600 - Agreed 04/01/13 - CM team must obtain in writing from PG&E a utility agreement or cost reimbursement. COMPLETE, NO FURTHER ACTION: CMOD #10 - Final Cost \$7,402.36	CMOD #10 Executed
1252-0005	7		Oil filled pipe @ Launch Box	2	CMB-0093	Agree to Merit Agree to Cost	1/16/13 1/16/13	+9,980	Synergy Demo Crew exposed an existing 6" steel line which had oil in it on the West side of 4th St between Harrison and Bryant. 01/16/13 - Merit info presented to CMB - Agreed 01/16/13 - Eb brought to CMB for cost NOT TO EXCEED amount \$10,000 COMPLETE, NO FURTHER ACTION; CMOD #05 - Final Cost \$9,979.81	CMOD #5 Executed
1252-0006	8		TIA - Associated w/ COR 001, COR 002, and COR 003	6		Agree to Merit	10/10/12	+153,000	TIA and Overhead Costs related to COR 001, 002 and 003. 10/10/12 - Merit info associated w/COR's 001, 002 & 003 presented to CMB - Agreed. 01/30/13 Elevation Ladder documentation presented for review of unresolved issue of payment of Indirect costs for TIA submittals- COR 008	
1252-0007	9		MOS – Impacts due to SFWD low psi water line	2	CMB-0143	Agree to Merit Agree to Cost	11/06/13	+5,727	Live PG&E Electrical Lines Conflict: BIH was notified that PG&E had live electrical lines running through each headwall work zone @ Moscone station. 8 inch Low Pressure Water Line Conflict: Contract drawings show this utility to be abandoned and capped prior to work. Synergy struck and damaged the water line. SFWD directed Synergy to excavate a kill hole so they could properly abandon the line. 11/04/12 - COR Evaluation for No Merit presented to CMB for - Agreed. Contractor did not follow contract specification 02.30.00 and 02.41.00 requiring the Contractor to verify the locations of any City or public service utility company tracities that may be affected by excavation and to ensure no damage to existing underground facilities. 11/06/13 - Merit info presented to CMB - Agreed for partial merit of cost associated with excavating two additional "kill-holes on 06/20/12 & 06/21/12. 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$5,727.00 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #26	CMOD #26 Executed
1252-0008	10		MOS - Demo PGE duct bank / SF City 911 fiber optic line	2	CMB-0094	Agree to Merit Agree to Cost	10/10/12 01/16/13	+4,916	Upon excavation of the MOS north headwall, BIH's subcontractor Synergy Project Management (SPM) uncovered a PG&E duct bank that contained a live San Francisco 911 fiber optic line. 11/14/12 - Presented to CMB - The narrative will be rewritten CMB agrees with partial merit labor work involved in supporting the utility agencies. This item will be brought back to the CMB for approval. 01/09/13 - Eb brought to CMB for cost NOT TO EXCEED \$4,919.54 - Agreed 04/01/13 - CM team must obtain in writing from PG&E a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #03 - Final Cost 4,915.54	CMOD #3 Executed
1252-0009	11		MOS - Traffic Signal line re-route south headwall	6	CMB-0095	Agree to Merit Agree to Cost	01/16/13	+37,500	After potholing Synergy discovered several traffic lines which were in the proposed location of the south MOS headwall. Traffic Lines re-routed. Merit info presented to CMB - Agreed 01/16/13 - CMB - NOT TO EXCEED \$37,500 COMPLETE; NO FURTHER ACTION: CMOD #27	CMOD #27 Executed

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1252-0010	12		MOS - Archaeological Standby North Headwall	2	CMB-0096	Agree to Merit Agree to Cost	12/11/12 01/16/13	+16,893	Upon excavation of the MOS north headwall, BiH's subcontractor Synergy Project Management (SPM) uncovered a layer of "Midden" or Native American debris. 12/11/12 - Merit info presented to CMB - Agreed 01/16/13 - EE brought to CMB for cost NOT TO EXCEED \$7,600 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #06 - Final Cost \$16,892.96	CMOD #6 Executed
1252-0011	13		MOS - SL conduit from PG&E vault @ north headwall	6		Agree to Merit	11/28/12	-0-	Permanent power is required to supply an existing Street Light box north of the MOS N headwall. 11/28/12 - Merit info presented to CMB - Agreed 04/01/13 - CM Team must obtain in writing from PG&E a utility agreement for cost reimbursement. Will be issued as a PCC with the approval of PG&E prior to requesting a proposal from the Contractor. CLOSED; NO FUTHER ACTION	
1252-0012	15		LB - Pre-Excavation for Slurry Walls	2	CMB-0087	Agree to Merit Agree to Cost	11/28/12 12/19/12	+125,000	Pre-excavation of slurry wall panels due to CDF encased sewer line. The concrete encasement was found by the Contractor to extend to a depth of 9-11' below the top of guide wall or street surface. The 8" VCP sewer main and concrete encasement was incorrectly shown in the contract drawings to be approximately 4'-5' below the street surface. 11/28/12 - Merit info presented to CMB - Agreed 12/19/12 - EE brought to CMB for cost NOT TO EXCEED \$96,000 - Agreed	
1252-0013	17		MOS – Impacts @ North and South Headwalls due to live utilities	6	CMB-0144	Agree to Merit Agree to Cost	11/06/13	+43,219	Standby delays related to the discovery of traffic lines within the proposed location of the south MOS headwall. 11/14/12 - COR presented to CMB. CMB requested additional revisions to the evaluation. CMB agrees with partial merit. The COR will be brought back to the CMB for approval. 11/21/12 - COR revisited at mtg for clarification the issue is related to CMB action from item 3 -7/25/12 (Mtg #88) specifically acted on 08/01/12 (CMB Mtg. 89) referred originally as Trend #15. CMB Agreed to No Merit to this contract change. 11/06/13 - Merit info presented to CMB - Agreed to DSC for equipment standby costs for a period of 16 working days. 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$43,219 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #27	CMOD #27 Executed
1252-0014	19		UMS - Grant street 2 way conversion (e- & striping)	7				-0-	In order to implement a full street closure for Stockton Street at the UMS location the DPT recommended that Grant Street be converted from an existing one-way street to a two way street for vehicular traffic. Closed - Work is done. 07/18/12 - This potential change was brought before the CMB. Board's decision to have DPT perform the work. Work is completed. CLOSED; NO FURTHER ACTION	
1252-0015	20		PROJECT WIDE - Utility Demo limit reduction credit	7				-0-	BIH's subcontractor Synergy Project Management (SPM) would like to minimize the limits of utility demo at the Launch Box, Moscone station, UMS station and TBM Retrieval Shaft locations. SFMTA to BIH/SPM "Build per Plan". CLOSED; NO FURTHER ACTION	
1252-0016	21		UMS - Reduced Duration	5	CMB-0073	Agree Cost (Conditionally)	08/01/12	-0-	No cost change for acceleration of utility relocation, ground improvements (jet grouting), and headwall construction at Union Square/Market Street Station. 08/01/12 - CMB approval condition upon incorporating correctness to backup documentation as required by & documented in CMB mtg. RE to prepare modification. COMPLETE; NO FURTHER ACTION: CMOD #08 - No Cost Change	CMOD #8 Executed
1252-0017	22		MOS - Asbestos Pipe at north headwall	2	CMB-0090	Agree to Merit Agree to Cost	12/12/12 01/09/13	+5,707	Upon excavation of the MOS north headwall, BIH's subcontractor Synergy Project Management (SPM) uncovered friable asbestos-laden transite pipe. 12/12/12 - Merit info presented to CMB - Agreed 01/09/13 - E brought to CMB for cost NOT TO EXCEED \$6,000 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #05 - Final Cost \$5,707.05	CMOD #5 Executed
1252-0018	23		MOS - Brick Wall #2 discovered @ north headwall	2				+15,784	Upon excavation of the MOS north headwall, BIH's subcontractor Synergy Project Management (SPM) uncovered a buried wall. 11/14/12 COR presented to CMB. Evaluation for merit will be rewritten and brought back to CMB for approval. 11/21/12 - Evaluation of merit presented to CMB - Agreed to No Merit to this contract change.	

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1252-0019	26	MOS - Asbestos Pipe at south headwall	2	CMB-0085	Agree to Merit Agree to Cost	12/12/12 01/09/13	+27,630	Transite pipe was discovered during MOS south headwall excavation. 12/12/12 - Merit info presented to CMB - Agreed 01/09/13 EE brought to CMB for cost NOT TO EXCEED \$30,000 - Agreed COMPLETE, NO FURTHER ACTION: CMOD #15 COMPLETE, NO FURTHER ACTION: CMOD#15 - Final Cost \$27,629.64	CMOD #15 Executed
1252-0020	27	MOS - Oil filled pipe at south headwall	2	CMB-0089	Agree to Merit Agree to Cost	12/12/12 01/09/13	+8,226	A pipe containing oil was discovered during MOS south headwall excavation. 12/12/12 - Merti into presented to CMB - Agreed 01/09/13 CMB - NOT TO EXCEED \$8,600 COMPLETE, NO FURTHER ACTION: CMOD #05 - Final Cost \$8,225.68	CMOD #5 Executed
1252-0021	29	MOS - Todco scaffolding reimbursement	2	CMB-0097	Agree to Merit Agree to Cost	12/12/12 01/16/13		1252 contract work requires the removal of scaffolding erected by Fine Line Construction, the contractor performing renovations on the Woolf House. 12/12/12 - Merit info presented to CMB - Agreed 01/09/13 - EE brought to CMB for cost NOT TO EXCEED \$1,717 - Agreed COMPLETE, NO FURTHER ACTION: CMOD #03 - Final Cost \$1,717.83	CMOD #3 Executed
1252-0022	closed	Disputed Work Items - NTP2 vs. NTP3	7				-0-	BIH interpretation of Special Provisions SP-3 NTP2 description includes activities that SFMTA interprets to be within NTP3. These activities include: Ellis Street and Green Street shafts and associated compensation grouting, MOS headwalls and jet grouting, jet grouting at cross passage 5, UMS head walls and jet grouting, OCS removal along Stockton Street from Geary to Ellis, and the TBM retrieval shaft. On April 13, SFMTA released the MOS headwalls and jet grouting, jet grouting at cross passage 5, UMS jet grouting, OCS removal along Stockton Street from Geary to Ellis, and preparatory and utility work necessary for the construction of the retrieval shaft. CLOSED; NO FURTHER ACTION	
1252-0023		Manhole in east guidewall footprint	2				-0-	While performing excavation for the east side guidewalls at the TBM Launch Box, BiH's subcontractor CJA-NCC encountered a manhole near the bottom of the excavation which was unexpected. BiH has stated that removal of the manhole prior to the installation of the guidewalls was necessary to ensure the successful installation of the slurry walls. 05/20/12 - CM Team comment: Synergy traded this COR with SFMTA for shallow Force Main Installation. CLOSED; NO FURTHER ACTION	
1252-0024	closed	2* gas line inside 16* casing	2				-0-	While performing excavation for the Sewer and AWSS trench at the intersection of Fourth and Harrison streets, BIHJV's subcontractor Synergy encountered what was identified to be a 16° depressurized gas main. This gas main contained a 2° gas line which is shown on contract drawing UD-502 to be abandoned/removed. CLOSED; NO FURTHER ACTION	
1252-0025	5	CDF Encasement on 42" RCP	2				+95,000	While performing excavation for the east side guidewalls at the TBM Launch Box, BIH's subcontractor CJA/NCC encountered a CDF backfill at the existing 42" RCP sewer which reportedly had a significantly higher compressive strength than the 50-150 psi. which was anticipated. BIH claims that the CDF conflicted with the construction of the guidewalls and it could not be excavated by conventional means. Escalated to the IRL process	
1252-0026	closed	Damage to Live LPW main at 4th and Folsom	2				-0-	Synergy Demo Crew hit a blow-off valve on the 8" water line at the Southwest corner of the MOS headwalls. SFWD is to install a permanent cap per contract drawing WD-404. CLOSED; NO FURTHER ACTION	
1252-0027		MOS - 76 Gas Station fencing	1				-0-	SFMTA requested BIH to install fencing around the perimeter of the 76 gas station at 4th and Folsom St. Issue closed, cost of fence paid by BIH in return for use of gas station lot. CMB - Temporary use of 800 Folsom Street site for construction staging. Use of this site would be a tradeoff between SFMTA and BIH. The Contractor would maintain the sites security and up-keep in exchange for not billing. CLOSED; NO FURTHER ACTION	
1252-0028		LB - SPTC delays due to concrete encased 8" sewer	2				-0-	Closed. Combined with COR 015. 07/25/12 - Verbal information presented to CMB as a potential change. CLOSED; NO FURTHER ACTION	

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1252-0029	18	MOS - South Headwall re-design	1	CMB-0158	Agree to Cost	05/21/14	+144,000	Costs related to leave end stops in place and a "T-Section" at the Moscone headwalls return walls. 11/14/12 - Presented to CMB. RE is recommending a possible compensation value of \$135K. CMB agrees with partial merit for labor and material cost of this COR. RE will proceed with scoping the work. 04/17/13 - Elevation Ladder of unresolved issue of End Stops presented to CMB - COR 018 09/18/13 - Contractor has submitted a Contract Claim No. 1 Permanent End Stops at MOS Headwall for \$169,379.17. CMB directed the CM Team to draft a letter rejecting the claim. Claim #1 has been negotiated for \$144K. CMod will be issued. 05/21/14 - RON for (COR 18) presented to the CMB to approve the process of issuing the CMod for a NTE of \$140K.	
1252-0030	24	Ellis - Utility demolition	3	CMB-0135	Agree to Merit Agree to Cost	12/6/2012 10/09/13	+35,628	BIH says that no utilities were shown at Ellis; however, Reference Drawing UE-126 shows utilities. 12/06/12 - Merit info presented to CMB - Agreed 10/09/13 - Engineers Cost Comparison brought to CMB for cost NOT TO EXCEED \$35,628.22 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #26	CMOD #26 Executed
1252-0031		Crack Gauges	4				-0-	BIH disagrees with SFMTA on the total number of crack gauges to be installed on the project. Per the contract drawings a total of 926 crack gauges are to be installed. BIH claims that a total of 50 are to be installed. CLOSED; NO FURTHER ACTION	
1252-0032	28	Ellis asbestos abatement	2		Agree to Merit	12/06/12	-0-	A steam line containing asbestos was discovered during potholing at the Ellis Street Shaft. 12/06/12 - Merit info presented to CMB - Agreed 01/10/13 - CM Comment - To be paid out of Environmental Mitigation allowance GE-8.	
1252-0033	30	LB - Class 1 Hazardous Material Haul Off	2	CMB-0159	Agree to Cost	05/21/14	+400,000	BIH trucking costs for Class 1 haul off generated at staging yard. Also see COR 054 regarding Class 1 Haz material haul off for Phase 2. 09/18/13 - Contractor has submitted a Contract Claim No. 2 Haz Mat Removal - Caltrans site (COR 30, 45 & 75) for 708,929.00 CMB directed the CM Team to draft a letter rejecting the claim. Claim #2 has been negotiated for \$400K cost to include COR's 030, 054 & 075. 05/21/14 - RON for (COR 30, 54 & 75) presented to the CMB to approve the process of issuing the CMod for a NTE of \$400K.	
1252-0034	70	LB - Jet Grout Quantity Overrun	4	CMB-0115	Agree to Merit Agree to Cost	03/20/13 04/03/13	+599,900	The contract drawings call for the contractor to determine the extent of jet grouting at the launch box. Bid Item ES-3 has an estimated quantity of 2,831 CY of in-situ treated ground. The Contractor has currently installed 3,929 CY of Solicrete (Jet Grout) for ground treatment. This translates to an additional quantity of 1,098 CY of ground treatment beyond the quantity listed for Bid Item ES-3. By subtracting 241 CY for the "scallop" portion of the columns the total is 857 CY. 3/2/013 - Merit info presented to CMB - Agreed 04/03/13 - EE brought to CMB for cost NOT TO EXCEED \$599,900 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #22 - Contractor may pursue addi amt. \$168,700 for "scallop" portion of jet grout.	CMOD #22 Executed
1252-0035	unsubmitted	Utility Removal UD-304 and UD-503	6				-0-		
1252-0036	35	Additional Road Base on Fourth Street	2				-0-	BIH's subcontractor Synergy Project Management (SPM) discovered what they believe to be an additional layer of road base under the existing asphalt and road base layer while performing roadway demo work along the west side of Fourth street between Harrison and Bryant St. The additional layer is estimated by BIH/SPM to be approximately 8" - 12" thick. 12/06/12 - Evaluation of merit presented to CMB - Agreed to No Merit for this change. CLOSED; NO FURTHER ACTION	

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1252-0037	unsubmitted		DPW permitting potential impacts	7				-0-	DPW Permitting issue to cause potential impacts. DPW is not issuing BiH permits for excavating the MOS headwalls, jet grouting at the LB, and excavating support at the LB, as they claim to have not been able to conduct a thorough review of the project's design documents and were not included in the design process. BIH may be required to re-sequence and stand many other potential impacts w/o said permits. COR package not submitted by Contractor. CLOSED; NO FURTHER ACTION	
1252-0038	38		Manhole in West Guidewall Footprint	3	CMB-0101	Agree to Merit Agree to Cost	12/05/12 01/23/13	+3,821	While performing excavation for the west side guidewalls at the TBM Launch Box, BIH's subcontractor CJA- NCC unexpectedly encountered a manhole foundation within the excavation at approximate station 165+70. It was necessary to chip away a portion of the existing manhole to gain the necessary clearance to construct the west slurry wall. 12/05/12 - CMB agreed with Evaluation of Merit 01/23/13 - Eb brought to CMB for cost NOT TO EXCEED \$4,052.17 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #12 - Final Cost \$3,820.84	CMOD #12 Executed
1252-0039	unsubmitted		Panel W-33 Obstruction	2				TBD	While performing excavation for the slurry walls at the TBM Launch Box, BIH's subcontractor CJA-NCC unexpectedly encountered buried (wood pile?) debris located approximately 12 feet below the guide wall within Launch Box Diaphragm Wall Panel W-33. This trend is being tracked separately from Trend 20 because we believe it may be a different structure. BiH has not provided adequate information substantiating the merging of the two trends. CLOSED; NO FURTHER ACTION	
1252-0040		PCC 1	PCC No.1 - Revisions to Moscone North Headwall Elevation (Top)	1	CMB-0099	Agree to Cost	01/16/13	+20,358	SFMTA initiated change to revise headwall elevations to facilitate a change in the roof elevation of MOS station. 0/1/6/13 CMB - NOT TO EXCEED \$20,500 Item is now being tracked as PCC 01 COMPLETE; NO FURTHER ACTION: CMOD #07 - Final Cost \$20,358.23	CMOD #7 Executed
1252-0041		PCC 2	PCC No. 2 - Revisions to UMS Headwall Concrete and Reinforcement Limits	1				-0-	SFMTA initiated change to revise UMS headwall concrete and reinforcement limits to provide a cost savings. 08/29/12 - Revised PCC presented to CMB PCC No longer being pursued. CLOSED; NO FURTHER ACTION	
1252-0042	31		Retrieval Shaft - Unmarked 12" Steel Pipe	2	CMB-0108	Agree to Merit Agree to Cost	01/02/13 02/27/13	+1,200	While performing excavation for the joint trench at the retrieval shaft BIH's subcontractor Synergy Project Management (SPM) discovered an abandoned 12° dia. steel pipe which appears to run continuously under Columbus Ave. 01/02/13 - Merit info presented to CMB - Agreed 02/27/13 - EE brought to CMB for cost NOT TO EXCEED \$1,250 - Agreed 04/01/13 - No reimbursement from SFWD. COMPLETE; NO FURTHER ACTION: CMOD #13 - Final Cost \$1,200	CMOD #13 Executed
1252-0043a	32		LB - Panel W29 Wood Pile	2	CMB-0136	Agree to Merit Agree to Cost	11/28/2012 11/06/13	+41,961	While performing excavation for the slurry walls at the TBM Launch Box, BiH's subcontractor CJA-NCC unexpectedly encountered what appeared to be a wood pile within Launch Box Diaphragm Wall Panel W-29. 11/28/12 - Merit info presented to CMB - Agreed 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$41,961 - Agreed Direct Cost for CORs 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct cost for COR will be paid as agreed by both parties. Time and Delay claimed by the Contractor will be denied.	
1252-0043b	32		LB - Panel W29 Wood Pile					+69,173	In SFMTA/BIH "Issue Resolution Ladder" process for Time Impacts. Resolution not met. Direct Costs of \$41,961 (with Markups & Bonds and Insurance) related to COR 32 have been negotiated seperately and processed as Contract Modification #31.	
1252-0044	33		Ret Shaft - 20" Water Line Conflict	2		Agree to Merit	11/14/12	-0-	During excavation for the joint trench at the retrieval shaft SPM discovered that the MRY Duct Bank is directly above an active 20" low pressure waterline. As a result the work at the Retrieval Shaft must reportedly be altered. 11/14/12 - Presented to CMB, the CMB agrees with some merit of this COR, element of change not define clearly. RE will proceed with scoping the work. Due to PCC 10 CLOSED; NO FURTHER ACTION	

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1252-004	a 34		LB - Panel W28 Wood Pile	2	CMB-0137	Agree to Cost	11/06/13	+43,294	While performing excavation for the slurry walls at the TBM Launch Box, BIH's subcontractor CJA-NCC unexpectedly encountered what appeared to be a wood pile within Launch Box Diaphragm Wall Panel W-28. 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$43,294 - Agreed Direct Cost for CORs 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct cost for COR's will be paid as agreed by both parties. Time and Delay as claimed by the Contractor will be denied.	
1252-0045	b 34		LB - Panel W28 Wood Pile					+69,173		
1252-004	5 36		MOS - Catch Basin @ south headwall	3				-0-	A catch basin on the NW corner of 4th and Folsom interfered with the construction of the MOS Headwalls. Removal of the catch basin was needed in order for the headwalls to be built. BIH claims the catch basin was not shown in the contract drawings. Closed due to improper notification. COR package not submitted by Contractor. CLOSED; NO FURTHER ACTION	
1252-004	7 37		UMS - 12" steel pipe removal	3	CMB-0132	Agree to Merit Agree to Cost	6/5/2013 08/28/13	+3,379	A 12" steel pipe at the north UMS headwall location interfered with the demolition of other existing UMS utilities. BH claims the steel pipe was not shown in the contract drawings. 06/05/13 - Merit info presented to CMB - Agreed 08/28/13 - Ee brought to CMB for cost NOT TO EXCEED \$3,379.19 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #26	
1252-004	3 39		MOS - 16" Steel Pipe removal @ northeast headwall	3	CMB-0102	Agree to Cost	01/23/13	+2,952	SPM removed an unmarked 16* steel pipe from the excavation of the NE MOS Headwall. Construction of the MOS headwall could not commence without this utility being removed. BIH claims the 16* steel pipe was not shown in the contract drawings. 01/2313 - EE brought to CMB for cost NOT TO EXCEED amount \$2,951.99 - Agreed 04/01/13 - CM team must obtain in writing from PG&E a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #14 - Final Cost \$2,951.99	CMOD #14 Executed
1252-004	9 40		MOS - Extra Road Base @ northeast headwall	2				-0-	BIH's subcontractor Synergy Project Management (SPM) discovered what they believe to be an additional layer of road base under the existing asphalt at the NE MOS headwall location. The road base in this location was approx. 20' thick on a patch that was roughly 25' x 25'. Closed due to improper notification. CLOSED; NO FURTHER ACTION	
1252-005	0 41		LB - Impacts due to live PG&E electrical lines (Synergy)	6	CMB-0098	Agree to Merit Agree to Cost	01/16/13	+1,217	Based on direction from the SFMTA, Synergy provided a full time flagger for one night shift of work @ the intersection of I-80 off-ramp near 4th/Bryant streets in order to assist PGE while they performed the abandoning of the existing live PGE electrical at the Launch Box location which was shown to be dead in the contract drawings. 01/13/13 - CMB agreed with Evaluation of Merit 01/16/13 - EE brought to CMB for cost NOT TO EXCEED \$1,245 04/01/13 - CM team must obtain in writing from PG&E a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #10 - Final Cost \$1,216.60	CMOD #10 Executed
1252-005	l execut	ed	Contract Amendment No. 2	1				(3,040,713)	COMPLETE; NO FURTHER ACTION: CMOD #02	CMOD #2 Executed
1252-0052	a 42		LB - Panel W25 Wood Pile	2	CMB-0138	Agree to Merit Agree to Cost	11/28/12 11/16/13		While performing excavation for the slurry walls at the TBM Launch Box, BIH's subcontractor CJA-NCC unexpectedly encountered an obstruction within Launch Box Diaphragm Wall Panel W-25. 11/28/12 - Evaluation of merit presented - CMB agreed 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$42,894 - Agreed Direct Cost for CORs 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct Cost for COR's will be paid as agreed by both parties. Time and Delay claimed by the Contractor will be denied.	
1252-0052	b							+69,173	In SFMTA/BIH "Issue Resolution Ladder" process for Time Impacts. Resolution not met. Amount shown is for potential costs associated with time impacts. Amount is calculated = \$484,210 / 7 (7ea. CORs 32,34, 42, 43, 62, 65, 67)	

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1252-0053	43	LB - Panel W30 Wood Pile	2	CMB-0139	Agree to Merit Agree to Cost	11/28/12 11/06/13	+14,197	While performing excavation for the slurry walls at the TBM Launch Box, BIH's subcontractor CJA-NCC unexpectedly encountered an obstruction within Launch Box Diaphragm Wall Panel W-30. 11/28/12 - CMB agreed with Evaluation of Merit 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$14,197 - Agreed Direct Cost for COR's 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct cost for COR's will be paid as agreed to by both parties. Time and Delay claimed by the Contractor will be denied.	
1252-0054	44	MOS - 16" steel pipe removal @ southeast headwall	3	CMB-0109	Agree to Merit Agree to Cost	12/06/12 02/27/13	+1,600	SPM removed an unmarked 16° steel pipe from the excavation of the NE MOS Headwall. Construction of the MOS headwall could not commence without this utility being removed. BIH claims the 16° steel pipe was not shown in the contract drawings. 12/06/12 - CMB agreed with Evaluation of Merit 02/27/13 - EE brought to CMB for cost NOT TO EXCEED \$1,800 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #14 - Final Cost \$1,600	CMOD #14 Executed
1252-0055	45	Ret Shaft - Credit for reduced AT&T conduits	6				(331)	Credit to install 2 less conduits in the AT&T infrastructure at the Retrieval Shaft Joint Trench. The conduit notes on page JT-701 of the contract documents require 8 EA 4* conduits as laid out on the AT&T line. The reduced materials would result in 6 EA 4* conduits as a result. 04/01/13 - CM team must obtain in writing from AT&T a utility agreement for cost reimbursement. 09/18/13 - COntractor has submitted a Contract Claim No. 2 Haz Mat Removal - Caltrans site (COR 30, 45 & 75) for 708,929.00. The CMB directed the CM Team to draft a letter rejecting the claim. COMPLETE; NO FURTHER ACTION: CMOD #26	
1252-0056	46	UMS - Unmarked steel pipes (6°, 12°, 14°) / Duct Bank	6	CMB-0103	Agree to Merit Agree to Cost	12/06/12 01/23/13	+7,475	While performing excavation for the utility demolition at the south UMS headwall BIH/Synergy discovered a 6* dia. steel pipe, 16* dia. steel pipe, 18* dia. steel pipe, and a concrete duct bank. BIH claims the utilities were not shown in the contract drawings. 12/06/12 - CMB agreed with Evaluation of Merit 01/23/13 - EE brought to CMB for cost NOT TO EXCEED \$7,461 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #16 - Final Cost \$7,475.28	CMOD #16 Executed
1252-0057	47	Ret Shaft - unmarked 10* steel pipe/duct bank	6	CMB-0104	Agree to Merit Agree to Cost	12/06/12 01/23/13	+2,108	Synergy Project Management (SPM), discovered an abandoned duct bank and 10" steel pipe which traveled underneath Columbus Avenue between Powell and Union Streets. Removal of the duct bank was necessary to complete the construction of the 36" RCP sewer main relocation work in this area. The status of the removal of the steel pipe is uncertain and may have not been necessary for the sewer main relocation. 12/06/12 - CMB and may have not been necessary for the sewer main relocation. 12/06/12 - CMB and the Evaluation of Merit 01/23/13 - CMB - Not to Exceed \$2,201 - 04/01/13 - No reimbursement from SFWD COMPLETE; NO FURTHER ACTION: CMOD #13 - Final Cost \$2,108.04	CMOD #13 Executed
1252-0058	48	UMS - 3'x5' brick sewer at south headwall	6	CMB-0114	Agree to Merit Agree to Cost	12/06/12 03/13/13	+11,675	Synergy Project Management (SPM), discovered a brick sewer within the utility demolition limits at the UMS South headwall. The sewer encountered was larger than the 12" pipe which was shown in the contract drawings. Removal and disposal of the sewer commenced on September 26th and was completed by September 28th. Removal of the sewer was necessary for headwall construction. 12/06/12 - CMB agreed with Evaluation of Merit 03/13/13 - EE brought to CMB for cost NOT TO EXCEED \$12,474.65 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #16 - Final Cost \$11,675.00	CMOD #16 Executed
1252-0059	49	Ret Shaft - Tree trimming debris haul off	7				-0-	Synergy Project Management (SPM), was requested by the SFMTA to remove and dispose of debris near the Northeast corner of Columbus Avenue and Union Street. The debris resulted from tree trimming activities performed by MUNI operations. SFMTA Letter No. 119 of no merit sent to Contractor. CLOSED; NO FURTHER ACTION	
1252-0060	50	Ret Shaft - 12" steel pipe removal at Union/Columbus	6	CMB-0110	Agree to Merit Agree to Cost	12/12/12 02/27/13	+2,200	On October 4th 2012, the Contractor discovered and removed a 12" Steel pipe at the intersection of Union Street and Columbus Avenue. Removal and disposal of the steel pipe was necessary in order to complete the proposed sewer re-location work near the Retrieval Shaft. Sewer work included the construction of a manhole which had been positioned in the field to avoid an existing MUNI duct bank. 12/12/12 - CMB agreed with Evaluation of Merit 02/27/13 - E brought to CMB for cost NOT TO EXCEED \$2,600 - Agreed 04/01/13 - No reimbursement from SFWD COMPLETE; NO FURTHER ACTION: CMOD #13 - Final Cost \$2,200	CMOD #13 Executed

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1252-0061	51		Ret Shaft - Elevation design conflict (30* low psi water / sewer)	3	CMB-0123	Agree to Merit Agree to Cost	03/13/13 7/10/2013	+13,386	03/13/13 - Merit info presented to CMB - Agreed 07/10/13 EE brought to CMB for cost NOT TO EXCEED \$21,100. COMPLETE; NO FURTHER ACTION: CMOD #26	
1252-0062	53		Chinatown - Night drilling for instrumentation	7				-0-	Closed.	
1252-0063	54		LB Class 2 Hazardous Material Haul Off (Phase 2)	2	CMB-0159	Agree to Cost	05/21/14	-0-	BiH trucking costs for Class 1 haul off generated at staging yard. Also see COR 030 regarding Class 1 Haz material haul off for Phase 1. Claim #2 has been negotiated cost to include COR's 030, 054 & 075. 05/21/14 - RON for (COR 30, 54 & 75) presented to the CMB to approve the process of issuing the CMod for a NTE of \$400K.	
1252-0064		PCC 4	PCC No. 4 - Ret shaft sewer pipe material change	1				-0-	Change approximately 65 ft. of pipe for sewer bypass around the TBM Retrieval Shaft from 3' X 5' oval glass fiber reinforced pipe to a 48-inch (OD) HDPE SD-17 pipe with casing insulator placed inside a 54-inch diameter, X-inch thick steel casing pipe. In addition, delete permanent sheet pile wall that was to have been placed along the west side of the trench to facilitate future maintenance access to the sewer along the shaft. CLOSED; NO FURTHER ACTION	
1252-0065		PCC 8	PCC No. 8 - UMS - Tree Removal	1				-0-	SFMTA is directing removal of a tree at the northeast corner of Stockton and O'Farrell St. CLOSED; NO FURTHER ACTION	
1252-0066		PCC 5	PCC No. 5 - Ret Shaft Water Dist. Pipe Material Change	1				-0-	Change material type of approximately 188 linear feet of 20-inch water line and approximately 125 linear feet of 30-inch water line from Welded Steel Pipe (WSP) to Ductile Iron Pipe (DIP) with TR-Flex joints. Install 6-inch thick concrete cap over 20-inch water line where cover is less than 24 inches. CLOSED; NO FURTHER ACTION	
1252-0067	58		Ret Shaft - Additional 10* steel pipe removal	6	CMB-0111	Agree to Merit Agree to Cost	12/12/12 02/27/13	+700	Work is a continuation of work performed in COR 047. 12/12/12 - CMB agreed with Evaluation of Merit 02/27/13 - EE brought to CMB for cost NOT TO EXCEED \$860.85 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #13 - Final Cost \$700	CMOD #13 Executed
1252-0068	56	PCC 3	PCC No. 3 - General Detour Signage	1	CMB-0113	Agree to Cost	10/03/12 02/27/13	-0-	Full closure of Stockton Street at Union Square was not anticipated under the 1252 Contract. The implementation of detour signage associated with the full closure of Stockton Street was to occur under the 1300 Contract. After the award of the 1252 Contract it was decided that a full closure of Stockton could be implemented to help reduce the headwall construction durations. As a result of the full closure the City Traffic Engineer has requested that a portion of the 1300 detour signage around Union Square. 10/03/12 - PCC presented to CMB. CMB directed the RE to get a price quote from DPT do the work as a price comparison. This item will be brought back to the CMB at a later date. 11/14/12 - PCC presented to CMB. CMB did not agree that Central Subway needed to take the lead on implementing detour signage, but suggested that the RE study the traffic activity and at the end of November report findings. 20/27/13 - Cost presented to CMB - Agreed to NTE \$6,152.60 Signs furnished and installed by SFMTA, PCC withdrawn. CLOSED; NO FURTHER ACTION	

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Item #	Change Description Change Type					Broject Trond/Chapter		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
						Approval Action	Approval Date	Actual/Forecast		
1252-0069		PCC 6	PCC No. 6 - Supplemental instrumentation of BART tunnel lining.	1	CMB-0124 (voided) CMB-0129 (voided) CMB 0131	Agree to Merit Agree to Cost Agree to Cost Agree to Cost	10/13/12 07/10/13 08/07/13 08/09/13	+307,861	Implement additional instrumentation of BART tunnel lining: (A) Existing bolt preload force – Determine the actual load in 12 bolts. (B) Bolt force sensor – Install 12 bolt force sensors at bolts for a total of 24 bolts. (C) Rail movement under dynamic train loading – Install dynamic strain gauges (2 per rail, 8 per tunnel). 10/31/12 - PCC presented to CMB for merit. CMB directed RE to proceed with obtaining a price quote from Contractor to perform the work. 05/08/13 - PCC 06 cost comparison was presented. CMB felt \$624K to perform the work was too high and requested IRP be contacted in writing to find out if the additional instrumentation monitoring was still warranted given the new alignment. 06/05: CS Letter No. 1972 presented - Tunnel Design Changes sent to IRP notified them of recent changes and developments in the tunneling contract. 07/10/13 - CMB - Not to Exceed \$650,172.62 IRP's response to SFMTA letter is still pending. 08/07/13 - Eb brought to CMB for cost NOT TO EXCEED amount \$305K contingent upon revised estimate to reflect deletion in scope of work. 08/09/13 - Special CMB Mg to clarify direction and approval to proceed with direction to the Contractor on extra work contained in PCC 06 (BART Work Scope reduction) The CMB Agreed to a NTE revised value of \$307,860 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #19	CMOD #19 Executed
1252-0070	CORs 32, 34, 42, 43, 62, 65, 67		Full Closure of 4th Street	1				TBD	SFMTA allowed full closure of 4th Street in order to facilitate construction of Launch Box Slurry Wall Construction Week Ending 11/04/12 - 11/11/12.	
1252-0071	61		LB - Panel P-17 Buried Obstruction	2	CMB-0125	Agree to Merit	01/02/13		CJA-NCC discovered an unmarked buried water main at Panel P-17, approximately 6' below the guidewall at CTL Station 165+52, while performing slurry diaphragm wall excavation. 01/02/13 - CMB agreed to cost of reconciliation change - NTE \$1,100 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #26	CMOD #26 Executed
1252-0072a	62		LB – Panel P-9 Buried Obstruction	2	CMB-0140	Agree to Merit Agree to Cost	1/23/2013 11/06/13		CJA-NCC discovered a buried obstruction while excavating slurry diaphragm wall panel P-9 at the Launch Box location. 01/02/13 - Presented to CMB for merit, CMB did not agree. CMB suggested inspector's daily tags as backup or reference the tag numbers in the write-up when force account work is involved. 01/23/13 - Revised write up presented CMB agreed with Evaluation of Mert. 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$41,588 - Agreed Direct Cost for CORs 32, 34, 42, 43, 65, 65, for have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct Cost for COR's will be paid as agreed to by both parties. Delay or Time claimed by the Contractor will be denied.	
1252-0072b	62		LB – Panel P-9 Buried Obstruction					+69,173	In SFMTA/BIH "Issue Resolution Ladder" process for Time Impacts. Resolution not met. Amount shown is for potential costs associated with time impacts. Amount is calculated = \$484,210 / 7 (7ea. CORs 32,34, 42, 43, 62, 65, 67)	
1252-0073	63		UMS - 48" Steel Pipe @ southwest headwall	2		Agree to Merit	1/23/13	-0-	BIH/Synergy encountered a buried 48° Diameter steel pipe during work at the UMS S. Headwall. The pipe is located 6 feet from the south UMS headwall and 5 feet from the face of the curb. 01/02/13 - Presented to CMB for merit, CMB did not agree. CMB suggested inspector's daily tags as backup or reference the tag numbers in the write-up when force account work is involved. 01/23/13 - Revised write up presented CMB agreed with Evaluation of Merit COR has been changed to PCC09. CLOSED; NO FURTHER ACTION	
1252-0074a	65		LB – Panel P-12 Buried Obstruction	2	CMB-0141	Agree to Merit Agree to Cost	1/23/2013 11/06/13		CJA-NCC discovered a buried obstruction (water main) while excavating slurry diaphragm wall panel P-12 at the Launch Box location. 01/02/13 - Presented to CMB for merit, CMB did not agree. CMB suggested inspector's daily tags as backup or reference the tag numbers in the write-up when force account work is involved. 01/23/13 - Revised write up presented; CMB agreed with Evaluation of Merit. 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$40.523 - Agreed Direct Cost tor CORs 32, 34, 42, 43, 65, 65, for have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct cost for COR's will be paid as agreed to by both parties. Delay or Time claimed by the Contractor will denied.	

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ltem #			Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
						Approval Action	Approval Date	Actual/Forecast		
1252-0074b	65		LB – Panel P-12 Buried Obstruction					+69,173	In SFMTA/BIH "Issue Resolution Ladder" process for Time Impacts. Resolution not met. Amount shown is for potential costs associated with time impacts. Amount is calculated = \$484,210 / 7 (7ea. CORs 32,34, 42, 43, 62, 65, 67)	
1252-0075	66		Retrieval Shaft - Unmarked 12" Steel Pipe	2	CMB-0112	Agree to Merit Agree to Cost	01/23/13 02/27/13	+3,700	While performing excavation for the joint trench at the retrieval shaft BIH's subcontractor Synergy Project Management (SPM) discovered an abandoned 12" dia. steel pipe which appears to be a Low Pressure Water Main. 0/1/23/13 - Merit info presented to CMB - Agreed 02/27/13 - Eb brought to CMB for cost NOT TO EXCEED amount \$3,800 04/01/13 - No reimbursement from SFWD COMPLETE; NO FURTHER ACTION: CMOD #13 - Final cost \$3,700	CMOD #13 Executed
1252-0076a	67		LB - Panel P-10 Buried Obstruction	2	CMB-0145	Agree to Merit Agree to Cost	1/23/2013 11/06/13	+9,984	CJA-NCC discovered a buried obstruction or concrete encased clay sewer pipe, approximately 7' below the top of the guide wall while excavating sturry diaphragm wall panel P-10 at the Launch Box location. 01/02/13 - Presented to CMB for merit, CMB did not argene. CMB suggested inspector's daily tags as backup be attached or reference the tag numbers in the write-up when force account work is involved. 01/23/13 - Merit info presented to CMB - Agreed 11/06/13 - Eb rought to CMB for cost NOT TO EXCEED \$49,984 - Agreed Direct Cost for CORs 32, 34, 42, 43, 62, 65, 67 have been negotiated. Time Impacts in IRL process. 02/19/14 - Direct cost for COR's will be paid as agreed to by both parties. Delay or Time claimed by the Contractor will be denied.	
1252-0076b	67		LB - Panel P-10 Buried Obstruction					+69,173	In SFMTA/BIH "Issue Resolution Ladder" process for Time Impacts. Resolution not met. Amount shown is for potential costs associated with time impacts. Amount is calculated = \$484,210 / 7 (7ea. CORs 32,34, 42, 43, 62, 65, 67)	
1252-0077		PCC 7	PCC No. 7 - BART Temporary Annex Wall	1	CMB-0106	Agree to Cost	01/30/13	+15,500	SFMTA is requesting Contractor construct temporary wall for Bart Annex for SFMTA use. 01/30/13 - NOT TO EXCEED Amount \$15,380 COMPLETE; NO FURTHER ACTION: CMOD #11 - Final Cost \$15,500	CMOD #11 Executed
1252-0078		PCC 9, FA CO 1	PCC No. 9 - UMS Headwall - Unknown Buried Pipe	1	CMB-0100	Agree to Merit Agree to Cost	01/16/13 01/16/13	+75,000	Related to COR 063. SFMTA instructed BIH to perform investigation into the 48° diameter steel pipe as it is a Differing Site Condition. 01/30/13 01/16/13 - EE brought to CMB for cost NOT TO EXCEED amount \$75,000 04/01/13 - CM team must obtain in writing from AT&T a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #04	CMOD #4 Executed
1252-0079		PCC 10 FA CO 3	PCC No. 10 - Relocation of TBM Retrieval Shaft - Excludes Button Up Costs	1					Modify Bid Item ST-4 (Construction of Base Bid Permanent Retrieval Shaft) and ES-4 (Ground Treatment at Retrieval Shaft Breakouts) to relocate the TBM Retrieval Shaft to 1731-1741 Powell Street - (Excludes Utility Button Up and Site Restoration) 01/0913 - Draft PCC10 presented to CMB for Contractor Design Activity to be paid on Force Account. NTE value \$20K presented to CMB as a draft copy, final copy distributed to the Contractor increased to \$50K. 02/20/13 - COST IS NOT REFLECTED HERE - SCOPE IS FUNDED BY OTHER CPT 690 \$\$\$\$ 03/06/13 - Cost proposal received from BH. SFMTA will develop a detail estimate of what is believed to be the scope of work. 03/13/13 - PCC 10 presented for CMB change approval of \$50K NTE amount to perform design activities. CMB requested CM team return with a more detailed estimate, Contractor's cost proposal of the bulleted item as listed on the PCC and backup documentation as evidence of work completed by the Contractor. COMPLETE; NO FUTHER ACTION CMOD #20 (separate funding source used - CPT 690).	CMOD #20 Executed

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1252-0080			Segment Measuring Frequency	7				-0-	RFI 203.1 - In light of gauging frequency, and the difficulties of erecting a ring with cast in gaskets, BIH JV alternately proposes to assemble a ring on the Master ring at an interval of every 500th ring cast. The assembled ring would be comprised of randomly selected segments, or segments chosen by the Engineer. 12/11/13 - The CMB took exception to the deletion of the (\$1.3M) from the log without the consent of the Board. Direction was given to re-insert the credit and add a notation to the "comments section" the reasoning the dollar amount is no longer valid and should be removed. CLOSED; NO FUTHER ACTION	
1252-0081			F21 and Old Navy Instrumentation Proposal	7				TBD	Wang Technology is proposing instrumentation changes to the Liquid Level Sensors and Tilt Beams in the basements of Old Navy and Forever 21.	
1252-0082	68		UMS – AT&T Vault Walkway @ N Headwall	2		Agree to Merit	01/16/13	+2,000	SPM discovered an walkway at the UMS north headwall. This walkway is located at the UMS north headwall and connects the south AT&T vault, located within the utility demolition limits, to an north AT&T, located outside of the utility demolition limits. SPM proposes to construct 3'x5' wall to the extents necessary, inside this walkway. The wall will be constructed of plywood and necessary reinforcement in order to create a bulkhead that will isolate the walkway and north vault from the south vault. 01/16/13 - CMB recommendation Contractor/Sub-contractor proceed on Force Account with a "Not to Exceed Amount" 52K. 04/01/13 - CM team must obtain in writing from AT&T a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #16 - Final Cost \$2,000.00	CMOD #16 Executed
1252-0083	69		UMS - Shoring Impacts due to 48" ATT Pipe at SW Headwall	2	CMB-0153	Agree to Cost	4/23/14	+29,463	On or about 10-25-13, BIH/Synergy were installing sheet piles at the UMS SW head wall to demolish the existing basement wall in conflict with the head wall construction per contract requirements. During the driving of the sheet piles, Synergy struck a buried object which was later identified as a 48° Diameter steel pile. See PCC 9 and 11. Synergy thought they were hitting a buried tie-back which was shown on the contract drawings. Synergy din ot know at the time that they were hitting a buried 48° pipe. After hitting the buried object, Synergy installed additional sheet piles and enlarged the excavation area in order to clear the buried object and drive the sheet piles to the minimum embedment depth. Due to the larger excavation, Synergy is claiming impacts as a result of encountering this DSC including shoring revisions and for installing additional sheets. 06/05/13 - CM TEAM NOTES: COR 069 reopened by BIH to cover cost for enlarging excavation due to encountering the 48° buried pipe. Previously COR 069 was to cover capping and removal of the pipe until it was changed to PCC 11. 02/05/14 - CM TEAM NOTES: In IRL process 04/23/14 - EE brought to CMB for Cost Not to Exceed \$30K - Agreed. Change will be negotiated as a lump sum.	
1252-0084		PCC 11, FA CO 2	PCC No. 11 - UMS – Cap and Remove 48" Steel pipe	1	CMB-0105	Agree to Cost	1/23/13	+150,000	BIH/Synergy encountered a buried 48° Diameter steel pipe during work at the UMS S. Headwall. The pipe is located 6 feet from the south UMS headwall and 5 feet from the face of the curb. This PCC is to complete removal of pipe @ S. Headwall and Investigate and remove pipe if necessary @ the North headwall. 01/30/13 - EE brought to CMB for cost NOT TO EXCEED amount \$150,000 - Agreed 04/01/13 - CM team must obtain in writing from AT&T a utility agreement for cost reimbursement. COMPLETE; NO FURTHER ACTION: CMOD #09	CMOD #9 Executed
1252-0085	71		LB – Ramp Excavation Obstructions	2	CMB-0133	Agree to Merit Agree to Cost	4/3/2013 09/25/13	+5,594	BIHJV encountered numerous groups of wood piles while performing excavation of the Launch Box ramp. The wood piles are approximately 16°+ in diameter and are located along the north and south perimeter walls of the Launch Box ramp excavation area. 01/30/13 - CMB did not agree with merit of change suggestion the RE negotiate w/Contractor for another concession. 04/03/13 - COR merit evaluation presented to CMB again due to a greater number of obstruction encountered. CMB - Agreed to Partial Merit. 09/25/13 - E brought to CMB for cost NOT TO EXCEED amount \$5,700. COMPLETE; NO FURTHER ACTION: CMOD #26	CMOD #26 Executed
1252-0086	72		Ellis Shaft Jet Grout Obstruction	2				-0-	On February 6th, 2013, CJA/NCC was drilling column R3 of the Ellis Shaft and reported hitting an obstruction 52ft below existing grade. The obstruction reportedly caused the jet grout monitor to shear off. At this time it is not known what the obstruction is or if it caused the monitor to be sheared off. Contractor no longer pursuing. CLOSED; NO FURTHER ACTION	

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1252-0087	73	MOS - 16" Pipe removal @ NE Headwall	2	CMB-0118	Agree to Merit Agree to Cost	3/13/2013 05/08/13	+940	BIH-JV's subcontractor, Synergy, encountered an abandoned 16° pipe while installing the 12° waterline at the north headwall of Moscone. The pipe was at the same elevation as the new 12° waterline and therefore needed to be removed to facilitate the installation of the new 12° waterline. 03/13/13 - Merit info presented to CMB - Agreed 04/01/13 - CM team must obtain in writing from PG&E a utility agreement for cost reimbursement. 05/08/13 - CMB agreed to cost of reconciliation of change on FA - NTE \$989.00 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #17	CMOD #17 Executed
1252-0088		Whole Foods - Unknown brick obstruction in Comp Grout Trench	0				-0-	BIH has decided not to submit a COR as production was not significantly impacted. CLOSED; NO FURTHER ACTION	
1252-0089	75	Hazardous Waste Disposal Denial - Spoils Containment Cost Impacts	7	CMB-0159	Agree to Cost	05/21/14	-0-	BH submitted change order request (COR) 030 seeking reimbursement for the demonstrated additional costs of excavating, handling and disposing of excavated material found to contain hazardous material to a permitted landfil over that which can be disposed of at an unregulated dump site. The SFMTA refused reimbursement for such costs under the hazardous waste bid item allowance. As a result of this determination, BH is modifying its approach to the construction and handling operations of tunnel spoils generated during tunneling operations. 09/18/13 - Contractor has submitted a Contract Claim No. 2 Haz Mat Removal - Calitrans site (COR 30, 45 & 75) for 708,929.00 CMB directed the CM Team to draft a letter rejecting the claim. Claim #2 has been negotiated to included COR 30, 54 and 75. 05/21/14 - RON for (COR 30, 54 & 75) presented to the CMB to approve the process of issuing the CMod for a NTE of \$400K.	
1252-0090	76	MOS - 16° Pipe removal @ SE Headwall	2	CMB-0119	Agree to Merit Agree to Cost	03/20/13 05/08/13	+1,116	BIH-JV's subcontractor, Synergy, encountered an abandoned 16" pipe while installing the 12" waterline at the South headwall of Moscone. The pipe was at the same elevation as the new 12" waterline and therefore needed to be removed to facilitate the installation of the new 12" waterline. 03/20/13 - Merit info presented to CMB - Agreed 04/01/13 - CM team must obtain in writing from PG&E a utility agreement for cost reimbursement. 05/08/13 - CMB agreed to cost of reconciliation of change on FA - NTE \$1,116.00 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #17 - Final Cost \$1,116.00	CMOD #17 Executed
1252-0091	77	Comp Grout - WFB-5 Drilling Obstruction	2	CMB-0126	Agree to Merit Agree to Cost	04/03/13	+6,126	On March 06,2013, BIHJV encountered a potential Differing Site Condition (DSC) while drilling the compensation grouting hole WFB-5 located at Whole Foods and more precisely at CTL Station 160+38. This potential DSC consists of an obstruction located at a depth of 9' below grade which prevented CJA-NCC from drilling any further. 04/03/13 - Merit info presented to CMB - Agreed 07/24/13 - CMB agreed to cost of reconciliation change - NTE \$6,125.93 COMPLETE; NO FURTHER ACTION: CMOD #26 - Final Cost \$1,116.00	CMOD #26 Executed
1252-0092	78	Comp Grout - WF & ATT	2		Agree to Merit	3/20/13	-0-	BIHJV encountered multiple potential Differing Site Conditions (DSC's) of varying dimensions while excavating the compensation grouting trench for the drill holes located at Whole Foods and AT&T. 03/20/13 - Merit into presented to CMB - CMB agreed there was No Merit for this contract change. 05/24/13 - CM Team Notes - Contractor no longer pursuing due to failure to provide proper notification. CLOSED; NO FURTHER ACTION.	

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1252-0093	79	FA CO 4	Comp Grout - Old Navy	2	CMB-0116 CMB-0142	Agree to Merit Agree to Merit (addl) Agree to Cost Agree to Addl Cost	03/20/13 04/24/13 04/26/13 11/06/13	+259,373	BIHJV encountered a potential Differing Site Condition (DSC) while sawcuttiing the pavement for the compensation grouting holes located at Old Navy. The original design was to drill the compensation grout holes between two existing PG&E lines. It was discovered in the field that there is not enough clearance between the existing PG&E lines for the original design to be possible and multiple other potential DSCs were also encountered including, but not limited to, tile duct banks, concrete of unknown contents, and steel pipes. 03/20/13 - Merit info presented to CMB - Agreed 04/01/13 - CM team must obtain in writing from PG&E a utility agreement for cost reimbursement. 04/24/13 - AddI info presented for rationale for Contractor to demob and remob drill rig due to insufficient clearance between existing PG&E lines to drill the grout holes - Agreed 04/26/13 - COR presented at a special CMB mtg to notifying CMB of need to have Contractor perform work on FA4 for a NTE amount of \$70K. 05/15/13 - AddI request for funds to cover (Inefficiencies) - agreed for a not to exceed amount \$152,000. 11/06/13 - EE brought to CMB for cost NOT TO EXCEED \$37,380 for the (remaining cost) parts 2 and 3 of 4 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #23	CMOD #23 Executed
1252-0094	80		MOS – Asbestos Wrapped 20" water line @ Headwalls	2		Agree to Merit	04/03/13	-0-	BIHJVs subcontractor, Synergy Project Management was performing the installation of low pressure water distribution piping at the Moscone north headwall and discovered an unknown material wrapping around the existing 20" waterline which appeared to contain asbestos material. 04/03/13 - Merit info presented to CMB - Agreed 07/10/13 - CM Team Notes - To be paid out of Environmental Mitigation allowance GE-8.	
1252-0095	81		12" Waterline Tee Connection Location (MOS South)	2		Agree to Merit	04/03/13	+3,001	BIHJV's subcontractor. Synergy Project Management, encountered a potential Differing Site Condition (DSC) upon exposing the tie-in point for the 12" waterline at the south headwall of Moscone. The potential DSC consists of two 45 degree elbows in the existing 12" waterline at the point of the tee connection. SFWD has surveyed the field conditions and indicated that the tee connection will need to be moved to the west. 04/03/13 - Merit info presented to CMB - Agreed COMPLETE; NO FURTHER ACTION: CMOD #17 - Final Cost \$3,000.00	CMOD #17 Executed
1252-0096	82		MOS 20" Conflict with 16" AWSS @ South Headwall	2	CMB-0160	Agree to Merit Agree to Cost	04/30/14 05/21/14	+40,152	Upon exposing the existing 20" waterline at the south headwall of MOS, in preparation for installing the new 20" waterline shown on WD-403 and amended by RFI 0155, BIHJV's subcontractor Synergy Project Management encountered a potential DSC. The potential DSC consisted of a crossing conflict between the new 16" AWSS, the new 20" waterline, and the existing 6" PE gas. These three utilities cross at multiple locations however the existing depths are roughly the same. 01/22/14 - Item reviewed at the CMB mtg as a status update to potential cost exposure. Item now being discussed in the IRL process. 04/30/14 - Merit info presented to CMB - Agreed. RE will negotiate a credit for amount no less than \$25K. 05/21/14 - Updated info presented to the Board. Further negotiation revealed a extra 25ft was not accounted for. CMB approved a change Not to exceed \$12K to cover the difference and contractor's claim of standby cost	
1252-0097	83		Ellis Shaft Concrete Obstruction	2	CMB-0127	Agree to Merit Agree to Cost	04/17/13 07/24/13	+1,420	During excavation for the Ellis Street Shaft, BIHJV's subcontractor, CJA-NCC, encountered a concrete obstruction at approximately 10 feet below grade. CJA-NCC spent 4 hours removing the obstruction. 04/17/13 - Merit info presented to CMB - Agreed 07/24/13 - CMB agreed to cost of reconciliation change - NTE \$1,424.52 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #26	CMOD #26 Executed
1252-0098	84		Crate & Barrel Water Intrusion	2				-0-	Water was discovered seeping into the Crate & Barrel basement in concert with secant pile installation at Pile #SRV-A. At the time, pile excavation was approximately 90 feet deep. BiHJV's subcontractor, CJA-NCC, stopped pile installation and placed lean concrete within the pile excavation. This allowed them to continue secant pile construction on other piles until which time SFMTA could provide appropriate mitigation for the water leak. 07/03/13 - CM Team will deny merit, notice not received within 7 days. CLOSED; NO FURTHER ACTION	

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1252-0099a		PCC 12, FA CO 6	PCC No. 12 - Modifications to Tunnel Alignment at Market Street - Adv. Materials Purchase	1	CMB-131	Agree to Merit Agree to Cost (Conditionally)	08/14/13 08/14/13	+45,637	IFB Tunnel Profile conflicts with micro-piles installed under Contract 1251. Tunnel Profile needs to be revised (lowered) such that TBM and Tunnel structure is below previously installed micro-piles. Contractor shall revise compensation grouting design to conform to Contract requirements given the revised tunnel alignment. (4/03/13 - CMB agreed to Micropile profile change being forwarded to the Contractor. 04/10/13 - Updated alignment was presented superseding 04/03/10 version - (lowered 4.9%) 04/10/13 - Original Contractor submittal needs to be evaluated to verify the new alignment has been incorporated. 08/14/13 - Merit Evaluation and PCC 12 Cost NTE (Construction portion) was presented to the CMB for approval. The CMB agreed to merit contingent upon verification signature by the Designer (DP1) of additional work and cost associated with the change. NTE Value \$41,470.01 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #28	CMOD #28 Executed
1252-0099b		PCC 12	PCC No. 12 - Modifications to Tunnel Alignment at Market Street - Initial Design Costs					+39,930	Contractors proposal for PCC 12 is \$1,668,434. Amount shown represents Cmod 34 executed for Initial Design Costs (\$39,930).	
1252-0099c		PCC 12	PCC No. 12 - Modifications to Tunnel Alignment at Market Street - Construction Costs					+1,582,868	Contractors proposal for PCC 12 is \$1,668,434. Amount shown (1,582,868) represents Construction Costs proposed by Contractor. Amount under negotiations.	
1252-0100	85		SFWD Impacts at MOS North	2				+71,300	BIHJV's subcontractor CJA-NCC is in the process of constructing the Moscone Station headwalls, the sequence of construction is such that it requires the 12" and 20" waterlines on the eastside of 4th street to be rerouted prior to completing the headwalls. In accordance with the Contract the San Francisco Water Department (SFWD) is responsible for completing the waterline reroutes (chlorination and tie-in) in a specified duration. BIHJV claims the SFWD failed to complete this work in the contractual durations. As a result, BIHJV claims the headwall construction operation has been incurring stand by costs. 04/10/13 - Item reviewed at CMB meeting during review of Trend/Change Log COR's. CM team contends this is not a valid change and will reject the Contractor's claim of ment. Contractor has submitted a notification of Claim #3 for standby cost for this item. The CM Team will respond by 02/14/14.	
1252-0101	87		Cross Passage 5 - Value Engineering Change Proposal	5				(2,674)	As indicated in Contract Drawing No. ES-144, ground treatment for the excavation of CP5 was anticipated to be performed using jet grouting methods. BIHJV proposes to perform ground freezing from within the tunnels as an alternative ground treatment methodology, thereby avoiding the need to disrupt and impact the public by occupying 4th Street for an extended period. 04/24/13 - Item reviewed at CMB mtg. during review of Trend/Change Log COR's. CMB suggested a credit from the Contractor should be received for Bid Item ES-5. In addition suggested a minimal review of the BIH's proposed ground freezing method be done by the PB. COMPLETE; NO FURTHER ACTION: CMOD #25	CMod #25 Executed
1252-0102			UMS - Secant Pile SRV-J Obstruction DSC	2				-0-	BIHJV's subcontractor, CJA-NCC, encountered a potential Differing Site Condition (DSC) while drilling for UMS Secant Pile #SRV-J. The DSC consists of what appears to be an abandoned utility pipe located approximately 10 feet deep. 04/24/13 - Information presented to CMB during review of Trend Log. CM Team states COR merit will be rejected due to notification of change not met in timely manner per the contract docs. 05/24/13 - CM Team update - Contractor no longer pursuing due to untimely notification of event. CLOSED; NO FURTHER ACTION	
1252-0103	88		SFWD Impacts at MOS South	2				-0-	BIHJV's subcontractor CJA-NCC is in the process of constructing the Moscone Station headwalls, the sequence of construction is such that it requires the 12" and 20" waterlines on the eastide of 4th street be rerouted prior to completing the headwalls. In accordance with the Contract the San Francisco Water Department (SFWD) is responsible for completing the waterline reroutes (chlorination and tie-in) in a specified duration. BIHJV claims the SFWD failed to complete this work in the contractual durations. As a result, BIHJV claims the headwall construction operation has been incurring stand by costs. 05/08/13 - Information presented to CMB during review of Trend Log. CM Team states COR will be rejected due to no merit. This item is not on the critical path. 06/17/13 - Contractor no longer pursuing, CLOSED; NO FURTHER ACTION	

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1252-0104		PCC 13, FA CO 5	PCC 13 - SFWD Excavation, Support and Backfilling	1	CMB-0122 CMB-0128	Agree to Cost Agree to Addi Cost	06/19/13 08/09/13	+33,982	Excavation, support and restoration work at two locations required to facilitate fitting/valve installation work by the San Francisco Water Department. Installation of valves are to facilitate fire service connection cutover and cutting off of the existing water main. The existing water main is in the footprint of the UMS station piles and is to be abandoned. 06/05/13 - CMB agreed to change required; work must be completed sometime in June 2013 06/19/13 - Cost estimate presented; CMB agreed for a NTE of \$20K 08/09/13 - Scot setimate presented; CMB agreed for a NTE of \$20K 08/09/13 - Special CMB Mtg to clarify direction and approval to proceed with direction to the Contractor on extra work contained in PCC 13 (Macy's Backflow work). CMB approved additional work and scope for a NTE value of \$14,100 for a total change value of \$34,100 COMPLETE; NO FURTHER ACTION: CMOD #18 executed for \$20K. Supplementary CMOD #24 executed for #13,982 was issue for remaining cost.	
1252-0105	90		Abandoned Well at MOS Panel N-4	2				-0-	BIHJV's subcontractor, CJA-NCC, discovered an obstruction that appears to be an abandoned monitoring well within the Moscone Slurry Wall Panel "N-4". Contractor claims impacts resulting from this alleged DSC include, but are not limited to, excavation of the panel. 06/19/13 - Information presented to CMB during review of Trend Log. CM Team states COR will be rejected due to several reasons of "no merit" terms in in the IRL process	
1252-0106	0		PCC No. 9 and 11 - Remaining Budget	0				(71,885)		
1252-0107	92		Credit - North headwall panel N-2 at Moscone	7				(4,943)	During installation of the reinforcement cage at panel N-2 at the Moscone North Headwall a 1-inch dia. Polyester sling used for lifting could not be detached from the reinforcement cage. The slings were then casted in-place. SFTMA requested a credit CO for the CN 1300 contractor to demolish the concrete and slings and replace the structural concrete. Or/10/13 - NCR condition of the wall be provided in order to prepare engineer's estimate for credit amount. Negotiated amount to be deducted from pay estimate. COR has been rescinded.	
1252-0108	91		Credit - Secant pile SRV-H, UMS south headwall	7				(263)	During concrete placement, the dummy steel beam that was used to hold down the secant pile steel beam reinforcement for pile SRV-H @ the UMS south headwall could not be removed and was poured in-place. SFTMA requested a credit CO for the CN 1300 contractor to demolish this beam between EI. 16.66' and the beam top. Negotiated amount to be deducted from pay estimate. COR has been rescinded.	
1252-0109	93		Credit - 65 feet of water pipe not installed at MOS	7				-0-	Contract Drawings WD-403 & WD-404 shows the 20" low pressure water line cutting through an area in the intersection where the joint trench is in the way. BIHJV's subcontractor, Synergy Project Management, with SFMTA's concurrence, installed the water line tie-in per a configuration which resulted in approximately 65' less line required to be installed. SFTM requested a credit CO to eliminate 65' of the line. CLOSED; NO FURHTER ACTION	
1252-0110	94		Credit - Switching of the 12" and 20" lines at MOS	3				(30,466)	It was discovered that the field locations of the 12" water line and 20" water line were actually "switched" from the location shown in contract drawing WD-402 Rev.0. SFMTA requested a credit CO as less 20" water line was required to be installed than was originally anticipated.	
1252-0111	95		Green St Shaft – Design Cost Impacts for Jet Grout	7				-0-	BIHJV: 'BIH and CJA-NCC are in receipt of the SFMTA's revised submittal review comments for Submittal No 31.43.14-003 (review cycle 3) dated July 10, 2013, where the SFMTA determined that the previously submitted content does not fulfill the contract requirements. The submittal status was changed from "Approved" on March 21, 2013, to "Disapproved - Resubmit" on July 10, 2013. The SFMTA states that the submittal was reviewed in further detail and it was determined the submittal didn't fulfill the contract requirements. This new submittal determination will result in additional costs to the SFMTA." 07/24/13 - Information presented to CMB during review of Trend Log. CM Team preparing letter of no merit, due to disagreement of dwg shown. CLOSED; NO FURTHER ACTION	

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1252-0112	96		Micropiles @ UMS Tangent Pile SRB-H	2	CMB-0155	Agree to Merit Agree to Cost	7/31/2013 05/07/14	+48,810	Excavation for battered secant pile SRB-H began on July 12. At approximate depth of 30°, CJN reported hitting an obstruction. Two, 36° and 45° long, No. 18, Dywidag bars were discovered within spoils of the first bile of the clamshell bucket. The 2-1/2° diameter bar was consistent with the micro piles installed in the previous contract. 07/24/13 - Draft merit evaluation presented to CMB. CM Team reported further investigation needed to verify survey location of micropiles. CMB requested a specific dwg of 1251 As Built of piles be presented at next CMB. 1251 Contractor will be put on notice referencing the CS CN1251 Ltr. #018 - Future Potential Costs Due to incorrect Micropile Placement. 07/31/13 - Merit Approval presented to CMB - Agreed. Notification of Possible Micropile Obstruction to CN1252 and possible CN1300 work was sent to CN1251 Contractor. COR was rescinded. CLOSED; NO FURTHER ACTION	
1252-0113			Relocation of TBM Retrieval Shaft - Columbus Ave. Restoration	1				+261,057	Modify Bid Item GE-3 (Utility Demo, Sewer, Road Demo, Pavement Restoration, etc.) to relocate the TBM Retrieval Shaft to 1731-1741 Powell Street - (Includes Utility Button Up and Site Restoration Only) 07/24/13 - Information presented to CMB during review of Trend Log. CMB requested LS Bid Item be broken- down based on contract work to see how much money would be put in to perform the restoration button up cost. In addition the CMB requested the Item description be change to "Columbus Ave. Restoration" in order to not confuse it with PCC 10 Retrieval Shaft work. COMPLETE; NO FURTHER ACTION: CMOD #21	CMOD #21 Executed
1252-0114	97		Ellis Shaft – TAM ES2-01 and ES2-17	2		Agree to Merit	08/28/13	-0-	BIHJV's subcontractor, CJA-NCC, discovered gravel material within the drill spoils from two separate Ellis Shaft TAM installations, TAM ES2-01 and ES2-17 08/14/13 - Item reviewed at CMB during review of Trend/Change Log COR's. GBR's will be checked to see if gravel material is known to exist in the drill location. 08/28/13 - Merit info presented to CMB - Agreed COR Rescinded CLOSED; NO FURTHER ACTION	
1252-0115	98		Ellis Shaft – TAM ES2-16	2		Agree to Merit	08/28/13	-0-	BIHJV's subcontractor, CJA-NCC, discovered gravel material within Ellis Shaft TAM installations, TAM ES2-1 08/14/13 - Item reviewed at CMB during review of Trend/Change Log COR's. GBR's will be checked to see if gravel material is known to exist in the drill location. 08/28/13 - Merit evaluation presented to CMB - Agreed COR Rescinded CLOSED; NO FURTHER ACTION	
1252-0116	99		MOS – AWSS Vault Over pour @ South Headwall)	2	CMB-0134	Agree to Merit Agree to Cost	09/25/13	+2,394	BIHJV: "While performing AWSS work at the MOS South Headwall, Synergy crews found the mechanical joint Tee bolts, required for the AWSS point of connection, to be completely encased in concrete. The concrete encasement appeared to be concrete over pour remaining from a previous contractor's AWSS vault wall pour." 0814/13 - Item reviewed at CMB during review of Trend/Change Log COR's. 09/25/13 - Merit evaluation presented to CMB - Agreed. 09/25/13 - Eng. Est. presented to CMB for cost NOT TO EXCEED \$2,400 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #26	CMOD #26 Executed
1252-0117	100		Ellis Shaft TAM ES2-08	2		Agree to Merit	08/28/13	-0-	BIHJV: "August 12,2013, BIHJV's subcontractor, CJA-NCC, struck a hard unknown object while drilling the Ellis Shaft TAM ES2-08." 08/28/13 - Merit evaluation presented to CMB - Agreed CMB requested a investigation plan to be developed and included in this COR if the plan is implemented. COR Rescinded. CLOSED; NO FURTHER ACTION	
1252-0118	101		Ellis Shaft TAM ES2-11	2				-0-	BIHJV's subcontractor, CJA-NCC, discovered gravel material within Ellis Shaft TAM installations, TAM ES2-11 09/11/13 - Viewed at CMB during review of Trend/Change Log COR's. CLOSED; NO FURTHER ACTION	

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1252-0119	102		UMS Jet Grout Column 18 DSC Headwall	2	CMB-0156	Agree to Merit Agree to Cost	05/07/14	+12,060	While drilling down on column #18 at the UMS south headwall, BIHJV's subcontractor, CJA-NCC, encountered a hard unknown obstruction. 09/11/13 - Item reviewed at CMB mtg. during review of Trend/Change Log. 10/16/13 - DSC presented for merit approval - No action was taken by the CMB. The CM will investigate if the 1252 Contractor received the 1251 As built information by the start of operations. COR Rescinded. CLOSED; NO FURTHER ACTION	
1252-0120	103		Retrieval Shaft Additional Slip Lining Pipe Qty	4				-0-	RFI251.1 SFMTA Response: Specification 33 31 00 1.01 A.22 Sewer Work, states, " Slip lining existing 3-foot by 5-foot brick sewer with 16-inch and 24-inch diameter HDPE Pipe (polyethylene pipe) nominal size SDR 26." As such, slip lining is to be performed for both the 16" and 24" diameter HDPE pipe. Branches indicated in the supplied sketch to be relined along Stockton and Columbus are acceptable. In addition, the 33-ft long branch that crosses the alignment at CTL 86-35 must also be relined. Acceptable alternative (to fused HDPE) pipe materials and sizes for this branch can be proposed by BIH. BIH shall submit the propose alternative for this branch of pipe for SFMTA review. The use of coupled PVC is not acceptable." 09/11/13 - Item viewed at CMB mtg, during review of weekly Trend/change log. No dwg for this work only a table. CMT eraem working with designer to make the determination. Item now being tracked under PCC 16. CLOSED; NO FURTHER ACTION	
1252-0121	105		Retrieval Shaft Relocation of Seismograph	1				-0-	BIHJV: "BIHJV's instrumentation subcontractor, Wang, was directed to relocate one of the vibration monitoring devices (Seismograph) installed at the Retrieval Shaft area to monitor vibration induced by demolition operations of the existing Pagoda Theater building." (09/11/13 item reviewed at CMB meeting during review of weekly Trend/Change log. CMB doesn't agree with the relocation charge and requested a better definition of the item. 01/22/14 - Item viewed at CMB as an status update. SFMTA letter No. 241 sent to Contractor denying merit. CLOSED; NO FURTHER ACTION	
1252-0122	89		UMS - Suspended Remobilization of Jet Grout Rig	7				-0-	BIHJV: "The SFMTA directed BIHJV/CJA-NCC to suspend the planned remobilization of the Jet Grout Rig at the UMS location due to external affairs with local UMS businesses." - 09/11/13 - Item reviewed at CMB mtg. during review of weekly Trend/change log. CMB questioned the timeliness of the COR also requesting a better definition of the item. Item has been elevated to the Issue Resolution Ladder (IRL) process.	
1252-0123	104		Retrieval Shaft - Additional Sewer Slip Lining 16* HDPE Pipe	4				-0-	BIHJV: "BIHJV submitted RFI Nos. 275, 275.1 and 275.2 requesting clarification about specific sever slip lining runs at the Retrieval Shaft, see Attachment Nos. 2, 4 and 6. The SFMTA responded, via RFI No. 275.2, stating that the slip lining is to be installed in a stacked configuration with the 24" over the 16" HDPE pipe, see Attachment No. 7. BIHJV and Synergy believe the SFMTA's response to install stacked HDPE slip lining pipes is additional work as the contract documents do not support this statement." 10/02/13 - Item reviewed at CMB mtg, during review of the weekly Trend/change log update. The CM states the DSC maybe eliminated. Waiting for a response from PUC now there is a as built condition. Letters are being written between SFMTA and SFPUC. 01/22/14 - Item viewed at CMB mtg as an update to potential cost exposure. CLOSED; NO FURTHER ACTION	
1252-0124		PCC 17	Green Street Sewer Changes	2		Agree to Merit	9/25/2013	-0-	In preparation to beginning slip lining work at the intersection of Columbus/Green/Stockton, the Contractor performed a site investigation of the existing 3x5' brick sewer. The Contractor discovered 4 unknown pipes intersecting the sewer. Received email from DPW on Oct 18 regarding proposed new direction to spray motar sewer line in lieu of slip lining. DPW also requested additional slip lining on Columbus from Sta. 83+50 to Sta. 85+50. 09/25/13 - DSC presented for merit approval - Agreed. CMB directed the CM Team to ask the Contractor for recommendation to slipline as much of the sewer line as possible without rerouting the conflicting pipe lines. 01/22/14 - Item viewed at CMB mtg as a status update to projected cost exposure. Item will be tracked under PCC17.	

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						Approval Action	Approval Date	Actual/Forecast			
1252-0125		PCC 14	Modifications to AWSS Facilities at 4th and Bryant Streets	1					Deletion of 12" AWSS diagonal sleeved pipe crossing and hydrant lateral. Installation of 12" AWSS restrained pipe and hydrant lateral. 10/16/13 - Draft PCC reviewed at CMB. The Board is in agreement with the modification. 10/23/13 - Engineers estimate for new work \$136,478 and deleted work (\$163,382) was presented to the CMB. PCC will be forwarded to the Contractor to price the work. In addition a cost estimate will be done for the work which would have been under the 1300 contract. 04/16/14 - CMB authorize the RE to negotiate with the Contractor for a amount up to \$35K.		
1252-0126	108		Ellis shaft and Old Navy Grouting	2				-0-	BIHJV's subcontractor, CJA-NCC, claims to have discovered material (cemented zones) different than that described in the Geotechnical Baseline Report in the Ellis Shaft and Old Navy Grouting Zones. 10/23/13 - Item reviewed at CMB mtg. during review of weekly Trend/Change log. The CM stated this item will be rejected, due to a lack of information being supplied by the Contractor to validate the COR. SFMTA sent Letter No. 247 & 253 denying merit. CLOSED; NOT FURTHER ACTION		
1252-0127a		FA CO 8	Remove and replace material at Retrieval Shaft CSM wall	1				+22,300	Contractor to remove hazardous material (approximately 250 CY) found in the footprint of the Retrieval Shaft Cutter Soil Mix (CSM) wall and replace with both clean material found on-site (approximately 190 CY) and import material (approximately 60 CY). 10/30/13 - Item reviewed at CMB during review of weekly Trend/Change log. Work to proceed on FA for a NTE amount of \$22,300. COMPLETE; NO FURTHER ACTION: CMOD #28	CMOD #28 Executed	
1252-0127b		FA CO 8	Remove and replace material at Retrieval Shaft CSM wall					(6,339)	Approximate remaining balance of Executed CMod associated with FA CO 8. SFMTA current reconciled FA costs are \$15,961. Final CMod required to reconcile balance. See Trend 127a.		
1252-0128a		FA CO 7	Acceleration of Work Activities at Retrieval Shaft	1				+5,000	SFMTA to compensate BIHJV for premium time incurred on October 5th, 2013 to accelerate the completion of the site work and soundwall at the Retrieval Shaft. 11/06/13 - Item reviewed at CMB mtg. during review of weekly Trend/Change log. 01/22/14 - Item reviewed at CMB mtg as a status update to potential cost exposure. COMPLETE; NO FURTHER ACTION: CMOD #28	CMOD #28 Executed	
1252-0128b		FA CO 7	Acceleration of Work Activities at Retrieval Shaft					(4,356)			
1252-0129		0	UMPs on 96-inch Sewer	2				-0-	BIHJV's subcontractor Wang Technology claims to have encountered a DSC (brick structure) while drilling for utility monitoring points on Howard Street. 11/06/13 - Item reviewed at CMB mtg. during review of weekly Trend/Change log. CLOSED; NO FURTHER ACTION		
1252-0130	0	PCC 16	Ret Shaft Sewer Changes	2				-0-	BHJU's subcontractor Synergy Project Management claims to have encountered the following DSCs while performing an investigation into planned slip lining work at the intersection of Columbus/Union/Powell: Internal clearance issues, unforeseen lateral connections, mixed debris and grease buildup inside sewer, and tighter radius than was anticipated for the planned junction structure. 11/20/13 - Item reviewed at CMB mtg. during review of weekly Trend/Change log. The Board suggested the CMT eam ask the PUC to tell us what they would like the Contractor to do. 02/05/14 - FACO 10 was presented for consideration to add a 16" pipe . The CMB took no action. Direction was given to investigate the use of the pipe and to determine the most cost effective approach to reach PUC's desired equivalency of the 36" pipe removed. CLOSED; NO FURTHER ACTION		
1252-0131	0	FA CO 9	Obstruction hit at CSM panel W6	2	CMB-0146	Agree to Merit Agree to Cost	12/11/13	+9,000	BHJV's subcontractor Drill Tech claims to have encountered a DSC (unknown steel members) while performing Cutter Soil Mixing (CSM) on panel W6 at the Retrieval Shaft. 11/2013 - Item reviewed at CMB mtg. during review of weekly Trend/Change log. This item will be tracked on FA. 12/11/13 - Merit evaluation presented to CMB - Agreed. EE presented for cost NOT TO EXCEED \$9,000 - Agreed COMPLETE; NO FURTHER ACTION: CMOD #28	CMOD #28 Executed	

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ltem #			Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number		
						Approval Action	Approval Date	Actual/Forecast				
1252-0132	COR 111	0	Material Hardness at Retrieval Shaft	2				+259,486	BIHJV's claims to have encountered ground material characteristics that are significantly harder than anticipated based on the information provided during the negotiations of PCC 10 (Relocation of Retrieval Shaft). 11/20/13 - Item reviewed at CMB mtg. during review of weekly Trend/Change log.			
1252-0133	0	PCC 15	Deleted AWSS Work at Union St and Columbus Ave	1				(187,181)	PCC 15 issued to: 1.) Delete all work associated with the removal and disposal of the Auxiliary Water Supply System (AWSS) utilities as shown on Contract Drawing No. AW-501.1 Rev.0. 2.) Delete all work associated with furnishing and installation of AWSS utilities as shown on Contract Drawing No. AW-501.9 Rev.0. Note: Monitoring of existing AWSS line to be performed in lieu of installation of new AWSS utilities. 12/11/13 - Item reviewed at CMB during review of weekly Trend/Change log. 02/19/14 - Cost revised based on Eng Est. and scoping meeting w/Contractor.			
1252-0134	0	PCC 18	Retrieval Shaft Site Supervision	1				-0-	PCC 18 issued to provide for the Contractor's supervision and engineering services during the compensation grouting activities at the Retrieval Shaft. 01/08/14 - Item reviewed at CMB meeting during review of weekly Trend/Chang log. 01/29/14 - PCC presented for review. CMB agreed with change. CLOSED; NO FURTHER ACTION			
1252-0135	0		Retrieval Shaft Comp Grout Array 045 Obstruction	2				-0-	BIHJV's subcontractor, Drill Tech, encountered a concrete obstruction at the Retrieval Shaft location on December 17th, 2013 when performing survey layout of the design location for several of the comp grout holes in the 045 array. 01/08/14 - Item reviewed at CMB meeting during review of weekly Trend/Chang log. The CM reported the Contractor will be notified there is no mert for this change request. SFMTA denial letter No. 270 sent to Contractor. CLOSED; NO FURTHER ACTION			
1252-0136	0		Installation of Piping, Conduit and Casing at Fourth Street Portal	1				TBD	PCC 19 issued to provide standpipe piping, telephone and train signal conduits, and casing at Fourth Street Portal. 02/26/14 CMB agreed on Jan. 29, 2014 with forwarding the PCC to the Contractor for pricing.			
1252-0137	0		North Beach Sewer Work	1	CMB-0152	Agree to Cost	03/12/14	-0-	Contractor directed to proceed with work on a Force Account basis for 'Sewer Work on Columbus and Powell St (North Beach)' in accordance with Force Account Change Order No. 010 03/12/14 CMB authorized a NTE amount of \$10,000 to start negotiations with the Contractor on the forthcoming PCC 20 for the price of the plates. Contractor's written cost for standby required to complete negotiations.			
1252-0138			Curb Ramp Work at NE Corner of 4th and Harrison Streets	1				+5,023	Contractor directed to proceed with work on a Force Account basis to install modified curb ramps and additional sidewalk flags in accordance with Force Account Change Order No. 011. 03/26/14 - CMB authorized a FACO NTE amount of \$4500,, which will be reimbursed by PG&E through the form B process.			
1252-0139	115		BART - Additional Load Cells		CMB-0157	Agree to Merit Agree to Cost	05/07/14	+1,066	BIHJV: "In accordance with the SFMTA's direction, BIH is providing two new fully functional load cells (the same model as currently installed in the BART tunnels) as well as two new DTI Squirters (the same model as currently installed in the BART Tunnels). It is BIHJV understanding that the SFMTA may decide to replace load cells #MI-75A and #M2-75A currently installed in the BART existing tunnels with the instruments hereby provided by BIH-JV and that the replacement operation will occur without BIHJV technical support."			
1252-0140a			Installation of Water Pipe, Sewer, Bulb-outs, and Sidewalk Widening in North Beach					+567,534	PCC 20 includes: • Furnish and install water piping for the San Francisco Water Department (SFWD) • Furnish and install sewer catch pits, manholes, and piping for the San Francisco Public Utilities Commission (SFPUC) • Furnish and install additional sidewalk pavement (widening and bulb-outs), crosswalk ramps, curb, gutter, reinforced bus-pads, street base and pavement for the San Francisco Municipal Transportation Agency, Sustainable Streets Division (SFMTA) 05/14/14 - Item reviewed at CMB mtg, during review of weekly Trend/Change log CMod 36 will be issued for \$328,860K for install of water pipe.			
1252-0140b			Installation of Water Pipe					+328,860	Amount shown represents negotiated amount. Additional costs for 100'+ of pipe and DSC mitigation pedning.			

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1252-0141			SB Tunnel Material Conditions					-0-	BIHJV claims to have encountered soil conditions different from those described in the GBR and Contract Documents on April 15, 2014, while excavating the Southbound (SB) tunnel. 05/14/14 - Item reviewed at CMB mtg. during review of weekly Trend/Change log. CLOSED; NO FURTHER ACTION	
1252-0142			Contract Milestone Changes					-0-	Contract Modification to modify the sequencing of tunnel construction and cross passage construction. 05/14/14 - Item reviewed at CMB mtg. during review of weekly Trend/Change log.	
1252-0143			Columbus Ave. Waterline					+5,000	BIHJV claims their subcontractor Synergy encountered an unmarked waterline on Columbus Avenue while excavating to install the new 24" waterline for PCC 20 (Trend #140b). 06/04/14 - Item reviewed at CMB mtg. during review of weekly Trend/Change log.	
1252-0144			Installation of Geophones in NB and SB Tunnels					+5,000	FA CO 13 Includes: • Installation of 1 geophone at STN 130+92 in the SB tunnel • Installation of 1 geophone at STN 130+92 in the NB tunnel • Allow the geo phones to read for an approximate 24hr period during active tunneling operations in each tunnel. • Provide data gathered by geophones to SFMTA for review 06/04/14 - Item reviewed at CMB mtg. during review of weekly Trend/Change log.	
1252-0145			Excavation of Cross Passage No. 03					+50,000	BIHJV claims their subcontractor, Drill Tech, encountered material conditions which differ from the conditions described in the Geotechnical Baseline Report (GBR) and the Contract Documents during the excavation of Cross Passage 3. 06/25/14 - Item reviewed at CMB mtg. during review of weekly Trend/Change log.	
1252-0146			Cross Passage No. 01					+50,000	BIHJV claims they encountered material conditions which may differ from the conditions described in the Geotechnical Baseline Report (GBR) and the Contract Documents during the dewatering operations of Cross Passage 1.	
Contract 1252 Totals	s							8,691,523	Total Changes and Potential Change (trends) to the contract are currently \$8,691,523 Out of Scope Changes to the Contract for Relocation of TBM (Trend 79, PCC 10) to be paid out of CPT690, funded separately. Not include in total above and being tracked separately from original Program Costs of \$1.5783B	
CONSTRUCTION TR	ONSTRUCTION TRENDS (Based on #1252 Trending Log and CMod) - SUBTOTALS:							8,691,523	The \$8,691,523 represents an UNDERRUN of allocated contingency. Current Balance = (23,658,463 - 8,691,523 = \$14,966,941 This does not include potential reimbursements from utilities.	
DESIGN TRENDS	DESIGN TRENDS								·	

FD-001	084-0001	Narrowing of Platform at UMS	1	CMB-0006	Agree	08/04/10	(800,000) [In "Current Forecast" - Sep2010 Cost Report.]
FD-002	084-0002	Redux of Station Emergency Ventilation Fans (UMS)	1	CMB-0009	Agree (Conditionally)	08/25/10	Further actions: Designer required to receive Fire/Life/Safety approval before proceeding with this change. (2,000,000) Designer to allocate cost impacts by Station (Current figures are "place-holders.". [In "Current Forecast" - Sep2010 Cost Report.]
FD-002	085-0001	Redux of Station Emergency Ventilation Fans (CTS)	1	CMB-0009	Agree (Conditionally)	08/25/10	Further actions: Designer required to receive Fire/Life/Safety approval before proceeding with this change. (500,000) Designer to allocate cost impacts by Station (Current figures are "place-holders.". [In "Current Forecast" - Sep2010 Cost Report.]
FD-002	086-0001	Redux of Station Emergency Ventilation Fans (MOS)	1	CMB-0009	Agree (Conditionally)	08/25/10	Further actions: Designer required to receive Fire/Life/Safety approval before proceeding with this change. (500,000) Designer to allocate cost impacts by Station (Current figures are "place-holders.". [In "Current Forecast" - Sep2010 Cost Report.]
FD-003	085-0002	Lowering of CTS	1	To be verified	Info Only	08/25/10	+7,000,000 Presented to CMB for information/consideration.
FD-004	084-0003	UMS Structural Configuration	1	CMB-0007	Agree	08/18/10	(8,000,000) [In "Current Forecast" - Sep2010 Cost Report.]

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ltem #		Change Description	Change Type	CMB No.	Change Sta	atus	Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
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FD-005	084-0004	UMS Alternate Station Access/Vent Shaft @ Union Square	1	CMB-0010	Agree	12/29/10	(22,500,000)	Documentation to be filed.	
FD-006	084-0005	Station Headwalls - UMS	1	CMB-0008	Agree	08/18/10	-0-		
FD-006	086-0002	Station Headwalls - MOS	1	CMB-0008	Agree	08/18/10	-0-		
FD-007		Cross-passages	1	CMB-0018	Agree	09/15/10	-0-		
FD-008		Trolley Re-route @ Columbus & Powell	1	CMB-0017	Agree	09/15/10	+2,000,000		
FD-009	082-0003	ECP to Modify Sidewalk Vault Demolition and Construction Sequence to Facilitate Construction of Joint Utilities Trench and Future UMS Station	1	CMB-0019	Agree	12/15/10	+3,000,000		
FD-010	082-0004	Redesign Stockton Street Sanitary Sewer to conform to SFPUC Sewer Criteria that preclude placement of relocated sanitary sewer under sidewalks	1	CMB-0020	Agree	11/17/10	+2,000,000		
FD-011	082-0005	Reconfigure Routing of Water, Sewer and Gas laterals from buildings on north side of Ellis Street	1	CMB-0021	Agree	11/17/10	+500,000		
FD-012	082-0006	Recognize cost transfers from design allowances allocated to contingency to explicit line items in final design estimates	1	CMB-0022	Disagree	11/17/10	-0-		
FD-013	082-0007	Increase Extent of Sub-sidewalks Vault Secondary Closure Walls and Waterproofing	1	CMB-0023	Agree	11/17/10	+4,100,000		
FD-014	082-0008	Include OCS system for rerouting trolley buses to Fifth Street	1	CMB-0024	Agree	12/15/10	+3,100,000		
FD-015	082-0009	Subsidewalk Vault Secondary Closure Walls for Buildings at 800 Market and 838 Market	1	CMB-0025	Agree	11/17/10	+1,000,000		
FD-016	085-0003	Underpinning of Mandarin Tower	1	CMB-0011	over taken by FD-021	01/19/11	+5,000,000	Additional Information Pending.	
FD-017	085-0004	CTS Ground Improvement	1	CMB-0012	over taken by FD-021			Additional Information Pending.	
FD-018	084-0006	UMS Apple Store Entrance	1	CMB-0013	Disagree	11/10/10		Additional Information Pending.	
FD-019	086-0003 084-0007	MOS TOD Configuration	1	CMB-0014 CMB-0015	Agree	11/10/10 11/10/10	TBD		
FD-020 FD-021	085-0007	UMS Emergency Stair #4 Relocation CTS Lowering and Stations Reconfiguration	1	CMB-0015 CMB-0027	Agree Agree	01/19/11	(18,000,000.00)	Agreement with changes to project configuration only. Additional Information required related to cost and schedule impacts. No agreement on Design cost impact, Design costs directly related to this change to be tracked separately	
FD-022	084-0008	Sewer Replacement along Geary & O'Farrell	1	CMB-0029	Agree	02/23/11	(134,000)	This trend has both an EPC number as well as a Construction Trend Number. See also Construction Trend No. 1251-0003	
FD-023	087-0001	Emergency walkways through crossover cavern changed from outside the main tracks to between the main tracks.	1	CMB-0032	Agree	07/27/11			
FD-024	087-0002	Diamond crossover on surface segment to a tandem (universal) crossover.	1	CMB-0033	Agree	08/24/11	(350,000)		
FD-025	083-0001	Bid Option for TBM Retrieval Shaft		CMB-0034	Agree	04/13/11	(10,000,000)	Will require changes to Bid Schedule to incorporate Traffic, Utilities and Pavement Demo/Restoration as incidental costs to the Bid Option. Estimated DP1 cost impact is approx. 80-100 hrs. of engineering time.	
FD-026	084,085,086	Air Replenishment System for Stations	1	CMB-0040	Agree	07/13/11	+1,245,000	Install air replenishment system at MOS, CTS and UMS to address the requirements of the SFFD Bulletin 5.07. The air replenishment system will be used to fill firefighter's self-contained breathing apparatus during firefighting operations in the three subway stations.	
FD-027	082-0010	1 Stockton street (Apple Store) Secondary Closure Wall		CMB-0043	Agree	08/03/11	+500,000	 Add secondary closure wall to supplement recently completed primary closure wall built by owner to isolate the sub-sidewalk basement of 1 Stockton Street (Apple Store). 2) Modify position of joint trench (and all associated conduits, ducts etc.) for secondary closure wall to be constructed. 	
FD-028	086-0004	MOS Revisions to Emergency Ventilation Requirements		CMB-0052	Agree	09/07/11	+500,000	Changes will extend the date of the 90% (pre-final) submittal by 20 working days and the 100% (final) submittal by 40 working days. CMB did not approve a time extension for 90% or 100% submittal delivery. Project Controls estimated \$321,645.	
FD-029	085-0006	CTS Revisions to Emergency Ventilation Requirements		CMB-0053	Agree	09/07/11	+1,000,000	Changes will extend the date of the 90% (pre-final) submittal by 20 working days and the 100% (final) submittal by 40 working days. CMB did not approve a time extension for 90% or 100% submittal delivery. Project Controls estimated \$411,895.	

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item #		Change Description	Change Type	CMB No.	Change Sta		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
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FD-030	084-0009	UMS Revisions to Emergency Ventilation Requirements		CMB-0054	Agree	09/07/11	+1,000,000	Changes will extend the date of the 90% (pre-final) submittal by 20 working days and the 100% (final) submittal by 40 working days. CMB did not approve a time extension for 90% or 100% submittal delivery. Project Controls estimated 733,420.	
FD-031		Accessibility Improvements at the SE corner of Union Square (UMS)							
FD-032		Union Square Entrance Reconfiguration (UMS)							
FD-033		Additional Compensation Grouting due to Tunnel Settlement Alert and Trigger Levels (All Stations)					+21,040,000	ECP dated 11/17/11. ECP being routed for approval.	
FD-034		Operational Performance and Safety Enhancement at 4th and King		CMB-0062	Agree	12/14/11	+450,000	SFMTA Operations requested that the design of the 4th & King tie-in work be expanded to include a number of improvements at the junction involving the turn-back area extending to the scissors crossover at 6th & King. SFMTA Ops confirmed that the requested changes result in an arrangement that is consistent with standard operation practices and therefore does not involve new or unacceptable risks. CS 1553 Memorandum No. 0081. Conditionally agreed upon verification/resolution of Buy America issue for the switches. 3/14/12: "Buy America" issue no longer applicable. Revised ECP element - remove H&K switch machines and replace with hydraulic/120V switch machines such as Nortrak or equal.	
FD-035		Tunnel Air Replenishment System		CMB-0071	Agree	07/11/12		Design and construct a fire fighter air replenishment system for Central Subway tunnel as described in SF Fire Code 511.2, Bulletin 5.07 except as noted in the Central Subway Request for Approval of Variance for the ARS to SFFD on March 5, 2012, and subsequently approved by SFFD. Design Impact: ROM - \$215K Construction Impact: ROM - \$1M	
FD-036		Surface Segment Sewers - 4th St.		CMB-0072	Agree	07/18/12	+2,200,000	Replace current unreinforced brick crown from 1906 as it may not be able to withstand loading for construction of the CS trackway section. Reconstruct manholes between Brannan and King Streets as existing are in conflict with proposed rail. Replace service laterals and provide sleeves for future replacement. Additional potential scope option of \$1.5M-Sewer and \$2.3M-Force Main may be requested. If so, it will be Cost to SFPUC	
FD-037		Platform Display System Signs		CMB-0077	Agree (Conditionally)	08/29/12	+500,000	Modify Stations (Contracts 1253, 1254 and 1255) and Surface, Track and Systems (Contract 1256) technical specifications and drawings for the Platform Display System (PDS) to match the changes made to the PDS units being supplied under the Integrated Systems Replacement (ISR) Project, Contract No.1260. 08/29/12 - CMB agreement condition upon follow up action to evaluate procurement by CN1260	
FD-038		Elongated Sidewalk Bulb-out at Chinatown Station		CMB-0121	Agree	06/05/13		CTS Sidewalk Bulb out (Southwest corner Stockton/Washington To bring the Central Subway Project - Chinatown Station in closer conformance wit the City's General Plan, SF Planning Department in its May, 2012 GPR Letter (recommends) making design changes specifically the extension of the sidewalk bulb-out at Stockton Street to help create a "station plaza". This elongated bulbout on the southwest corner (SWC) of Stockton and Washington Streets in front of the station headhouse would also include bike racks, benches, trees and other landscape features. 06/05/13 - CSDG designer estimate cost is not a CS expense. Addl funding source will need to be establish by San Francisco Planning to support the investigation study Design Impact: Estimated Construction Cost ROM \$36,200 Construction Impact: Estimated ROM 97 Hrs:: DPW Pavement/Sidewalk Design Modification Estimated ROM 60 Hrs: CSDG bus door/mirror/tree/bike rack coordination	
FINAL DESIGN TRE	NDS (Based on All ECPs) -	SUBTOTALS					+4,902,000	Incorporated budget increases have been absorbed by allocated and unallocated funds and the program budget to date remains \$1,578,300,000.	
OTHER TRENDS									
X51-001	082-0001	1251 Revised estimate, escalation impact and contingency.	7				+9,532,314	Cost Transfer #0033 (Base \$\$), 0033a (Allocated Contingency), 0036 (Base \$\$ Escalation , 0036a (Allocated Contingency Escalation). [Sep2010 Cost Report]	BT-0033, BT-0033- A, BT0036, BT- 0036-A

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AutomAutomagnetyII <td>BT-0034</td> <td>Reserve and Contingencies removed as per communications with PG&E. This is consistent with the 1250 utility agreement. [Cost Transfer #0034 - Aug2010 Cost Report].</td> <td>(7,697,949)</td> <td></td> <td></td> <td></td> <td>7</td> <td>Form B Credit for 1251 Utilities</td> <td>082-0002</td> <td>X51-002</td>	BT-0034	Reserve and Contingencies removed as per communications with PG&E. This is consistent with the 1250 utility agreement. [Cost Transfer #0034 - Aug2010 Cost Report].	(7,697,949)				7	Form B Credit for 1251 Utilities	082-0002	X51-002
No.011 OP/07 http://minimum.com/op/op/op/07 7 CMI	ed BT-0037, BT-0037 A		(2,165,462)				7		083-0001	X52-001
Action Action Action Action Action Action Action 333-002 Charge UK Adversa Date S April 440, 2012 C C C C C Sector Se	way	Development (OEWD). Provides specialized training to SF residents to perform tunneling work. Central Subway	+75,000				7	OEWD's Pilot Training Program	003-0001	X03-001
X8:903 OB-002 Ch123 (MB) construction Budget Adjustment SNR Ch123 (MB) constructio		Adjust construction budget in Section 6 of Contract No. CS 155-2 to Year of Expenditure		07/27/11	Agree	CMB-0044	7		084-0001	X53-001
Noticity Other Constraints Other Constant Not Socis Nature		DP2 Designer's new proposed dates for Pre-Final and Final Design have pushed out Advertise Dates.						Change UMS Advertise Date to April 4th, 2012		X53-002
Assection Outles Counsel Outles Counsel Outles Counsel Due doale duation for contraction submittant X84-001 CFS 55-20 (VEP) CEPS - Construction Rules IP Advertes Date Is May 23rd, 23rd 7 OMB-0001 Appres 0727711 Adduct construction Subje IP Advertes Date Soft May 23rd, 23rd 0 CMB-0001 Appres 0722711 Adduct construction May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20rd Soft May CERS - Construction Rules IP Advertes Date In May 23rd, 20	ase	CMB is currently vetting the 90% estimate of \$221,534,723 which represents a \$XX increase from the 65% base amount in 2010\$. Increase would deplete current YOE dollars and require use of unallocated contingency.	+55,720,600						084-0002	X53-003
Abelon Construction Advantum VDE Image: CTS Advantum VDE Advantum	f								084-0002	X53-004
X84-002 Change CTS Advertise Date to May 23(4, 2012 VM-0061 Agree 122811 DP2 Designer's new proposed dates for Mre-Fnal and Final Design have pushed out Advertise Dates. X84-000 Revisions to CTS Advertise Date to May 23(4, 2012 CMB-0060 Agree 122811 Advertise Date from May 23, 2012 to February, 8, 2012 (74 avorking days) X84-005 085-0002 CTS 552 Advertise Date from May 23, 2012 to February, 8, 2012 (74 avorking days) CMB-0060 Agree 122811 Advertise Date from May 23, 2012 to February, 8, 2012 (74 avorking days) X84-005 085-0002 CTS 552 Advertise Date to Unter 256, 2012 Y CMB-0060 Agree 0727711 Adjust construction budget in Section 6 of Contract No. CS 1552 to Vaer of Expanditure X85-002 Change MOS Advertise Date to Jung 256, 2012 C CMB-0064 Agree 0727711 Adjust construction budget in Section 6 of Contract No. CS 1552 to Vaer of Expanditure X85-002 Change MOS Advertise Date to Jung 256, 2012 C C C Change MOS Advertise Date to Jung 256, 2012 C C X86-001 Change MOS Advertise Date to Jung 276, 2012 C C C Change MOS Advertise Date to Jung 276, 2012 C X86-002 Change MOS Advertise Date to Jung 276, 2012 C C C C C X86-001 Change MOS Advertise Date to Jung 277		Adjust construction budget in Section 6 of Contract No. CS 155-2 to Year of Expenditure		07/27/11	Agree	CMB-0045	7		085-0001	X54-001
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X84-066 085-002 CS 155-20 (PPL Construction Budget Adjustment YOE Adjustment YOE 7 CMB-0046 Agree 072711 Adjustment YOE X85-001 086-0001 CS 155-20 (PPL COBRE- Construction Budget Adjustment YOE 7 CMB-0046 Agree 072711 Adjust construction budget in Section 6 of Contract No. CS 155-20 Ver of Expenditure X85-002 Change MOS Advertise Date to May 23rd, 2012 Change MOS Advertise Date to May 23rd, 2012 Change MOS Advertise Date to May 23rd, 2012 Change MOS Advertise Date to May 23rd, 2012 Change MOS Advertise Date to May 23rd, 2012 Change MOS Advertise Date to May 23rd, 2012 Change MOS Advertise Date to May 23rd, 2012 Change MOS Advertise Date to May 23rd, 2012 Change MOS Advertise Date to May 23rd, 2012 Change MOS Advertise Date to May 23rd, 2012 Change MOS Advertise Date to May 23rd, 2012 Change MOS Advertise Date to May 23rd, 2012 Change STS Advertise Date to Cobber 1, 2012		Change CTS Advertise Date from May 23, 2012 to February 8, 2012 (-74 working days)								X54-003
X84-000OBS-00.02Adjustment -allowed *IIIceIc				12/28/11	Agree	CMB-0060				X54-005
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Abs-002Equipment ProcurementImage: Change STS Advertise Date to October 1, 2012X56-033Change STS Advertise Date to October 1, 2012Image: Change STS Advertise Date to October 1, 2012X40-001028-0001SFPUC CDD Updated Budgets7Authorized+505,1271250 SFPUC CDD Monthly Service Report Final & 1251 SFPUC CDD EstimateX80-001071-0001DP1: CS 155-1 Modifications No. 2 & 3see Prof. ServAuthorized+560,565Modification No. 2: \$395,584.59, Modification No. 3: \$165,000. Individual details listed in Professional Services. See trend 1551-0002; 1551-0005 - 1551-0009X80-002071-0002DP1: CS 155-1 Modification No. 47Authorized+138,889Modification No. 4: \$135,898Individual details listed in Professional Services. See trends 1551-0010 - 1551- 0014.X80-002029-0001Increase City Auditor Budget7Authorized+136,898Modification No. 4: \$135,898Individual details listed in Professional Services. See trends 1551-0010 - 1551- 0014.X80-003029-0001Increase SFCTA Budget7Authorized+50,220Reduce unallocated Contingency to increase City Auditor budget as authorized in Budget Authorization #51X80-004232-0001Increase SFCTA Budget7Authorized+20,000satisty PMO review and SFMTA Fleet Plan light rai whicle.X80-005072-0001DP2: CS 155-2 Modification No. 17Authorized+101,000Modification No. 1: \$1,010,600 Individual details listed in Professional Services. See trends 1552-0002, 1552-0002, 1552-0002, 1552-0002, 1552-0002, 1552-0002, 1552-0002, 1552-0002, 1552-0002, 1552								Change STS Advertise Date to July 27th, 2012		X56-001
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X80-004 232-0001 Increase SFCTA Budget 7 Authorized +20.00 Increase SFCTA budget per Budget Authorization #51 to conduct travel forecast (TEP CEQA Modeling) to satisfy PMO review and SFMTA Fleet Plan light rail vehicle. X80-005 072-0001 DP2: CS 155-2 Modification No. 1 7 Authorized +1,010.00 Modification No. 1: \$1,010,600 Individual details listed in Professional Services. See trends 1552-0002, 1552-0	- BT-0187		+135,898		Authorized		7	DP1: CS 155-1 Modification No. 4	071-0002	X80-002
X80-004 232-0001 Increase SPCTA Budget 7 Authorized 4-20,000 satisfy PMO review and SFMTA Fleet Plan light rail vehicle. X80-005 072-0001 DP2: CS 155-2 Modification No. 1 7 Authorized +1,010,000 Modification No. 1: \$1,010,600 Individual details listed in Professional Services. See trends 1552-0002, 1552-0003 and 1552-0005.	BR#51, BT-0181	Reduce unallocated Contingency to increase City Auditor budget as authorized in Budget Authorization #51.	+50,220		Authorized		7	Increase City Auditor Budget	029-0001	X80-003
A00-005 012-0001 DP2: CS 155-2 Modification No. 1 7 A00012ed +1,010,000 0003 and 1552-0005.	BR #51, BT-0182		+20,000		Authorized		7	Increase SFCTA Budget	232-0001	X80-004
see Prof.	²⁻ BT-0194, BR#53		+1,010,000		Authorized		7	DP2: CS 155-2 Modification No. 1	072-0001	X80-005
X80-006 072-0002 DP2: CS 155-2 Exercised Options Serv Authorized +366.771 Individual details listed in Professional Services. See trends 1552-0001, 1552-0007 and 1552-0014.	BT-0023, BT-0194	Individual details listed in Professional Services. See trends 1552-0001, 1552-0007 and 1552-0014.	+366,771		Authorized		see Prof. Serv	DP2: CS 155-2 Exercised Options	072-0002	X80-006
X80-007 151-0001 Operations SFMTA Transit Services Authorized Authorized +50,000 CSP request services to support and test OCS for 30/45 trolley reroute. Authorized per Budget Revision #53	BR #53, BT-0189	CSP request services to support and test OCS for 30/45 trolley reroute. Authorized per Budget Revision #53	+50,000		Authorized			Operations SFMTA Transit Services	151-0001	X80-007

			1		Project	Frond/Chong	e Control Log		II.
ltem #		Change Description	Change Type	CMB No.	Change St		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
					Approval Action	Approval Date	Actual/Forecast		
X80-008	081-0001	SFMTA Safety, Training, Security & Enforcement Div PCOs	7		Authorized		+60,000	CSP request PCOs to support 1251 and 1252 construction for one year. Authorized \$60,000 per Budget Revision #45.	BR #45, BT-0190
X80-009	016-0001	SFMTA Sustainable Streets 30 and 45 re-route	7		Authorized		-0-	CSP request services to support 30/45 trolley reroute. \$162,600 was reduced from DPT staffing plan budget.	BT-0188
X80-010	073-0001	DP3: CS 155-3 Modification No. 1	7		Authorized		+152,882	Modification No. 1: \$152,882 Individual details listed in Professional Services. See trends 1553-0012 and 1553- 0013.	BT-0203
X80-011	073-0002	DP3: CS 155-3 Exercised Options	see Prof. Serv		Authorized		+1,026,398	Individual details listed in Professional Services. See trends 1553-0001 - 1553-0004, 1553-0006, 1553-0009 - 1553-0011, 1553-0014. Updated from \$971,686 to include Trend 1553-0014.	BT-0203
X80-012	151-0002	OCS materials procured directly for work in reference to CN1251 CMOD#12.		CMB-0065	Agree	1/25/2012, 2/29/12	+126,149	See also Trend 1251-0023	
X80-013	073-0003	DP3: Provide Vibration Impact Analysis and Extend PC Support Technical and CSP Quality Manager	1				+133,906	Amend #2: Vibration Impact Analysis \$38,380 Amend #3: PC Support Tech \$34,483; Quality Manager - \$61,043	TBD
X80-014		For combining the stations and track and systems into Contract 1300 (SSTS)	7					Combined all the Station ad Track and Systems into one Contract. Removed the buffer float activities from the satin to track and systems and overlapped work that can now be done concurrent.	
X80-015		Changing the Bid Opening date and condensing the Contract Duration for Contract 1300	7		Agree	11/14/12		Change bid opening to March 19, 2013 and reevaluated procurement durations, revised calendars for UMS Garage, revised production rates for steel. 11/14/13 CMB Agreed verbally to change @ Mtg #101	
X80-016		Change to Tunnel and CTS interface and buffer float Contract 1300 (SSTS)	7		Agree	01/23/13		Change (MPS) reducing the number of days currently in (from 550 calendar days from NTP to 450 calendar days) for the key interface between CTS and the tunnel completion. Reduced number of days will be issued as part of Add #3 of the 1300 contract. 1/23/13 CMB Agreed verbally to change @ Mtg #111.	
OTHER TRENDS (E	Based on Various Trends)						+59,662,439	Current Forecast reflects a net +3,537,933 unfavorable impact for all Other Trends.	
GRAND TOTALS							+73,255,961	Current Forecast reflects an estimated net +68,635,132 3 unfavorable exposure to the project to date. Incorporated budget increases have been absorbed by allocated and unallocated funds and the program budget to date remains \$1,578,300,000.	

PROFESSIONAL SERVICES TRENDS: The following trends are listed for administrative purposes. The dollar amounts are reflected in the "Other Trends" section of this log in the form of cost (budget) transfers - i.e. CCOP's. The total values indicated for each professional contract are for tracking all potential cost exposures and may or may not be approved.

Contract CS-155-1								
1551-0001	071-000	1 Conform Contract Terms per Negotiations from 10/2/09 to 11/6/09	7			-0-	To be addressed in Amendment 1.	Amendment 1 Pending
1551-0002	071-000	2 Project Office Delay (Adjustments for OH Rate and Team Productivity impact)	7	Authorized	07/29/11		Amendment Signed by ED/CEO 7/29/11 COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved
1551-0003	071-000	3 Additional Construction Support for CP-1	7					
1551-0004	071-000	4 Redesign Required by Barney's and PUC for CP-2	7					
1551-0005	071-000	5 Archeological Monitoring 16.20.C1 (total)	7	Authorized	07/29/11		Amendment Signed by ED/CEO 7/29/11 COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved
1551-0006	071-000	6 Eyebolts	7	Authorized	07/29/11		Amendment Signed by ED/CEO 7/29/11 COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved
1551-0007	071-000	7 Secondary Closure Walls 800/838 Market	1	Authorized	07/29/11		Amendment Signed by ED/CEO 7/29/11 COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved
1551-0008	071-000	8 Delete Optional Tasks - Tasks 1-14	1			-0	Deleted Options in the amount of (\$529,952) in Amendment has been reversed through Budget Authorization #50. COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved
1551-0009	071-000	9 CTS Lowering	1	Authorized	12/08/11		Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #3	Amendment 3 Approved
1551-0010	071-001	0 Modify Sidewalk Vault Demo ECP-FD009	7	Authorized	12/08/11		Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #4	Amendment 4 Approved

						TRAL SUBWA			
ltem #		Change Description	Change Type	CMB No.	Change Sta		e Control Log Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
					Approval Action	Approval Date	Actual/Forecast		
1551-0011	071-0011	Modify Stockton St. Sewer ECP-FD010	7		Authorized	12/08/11	+4,112	Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #4	Amendment 4 Approved
1551-0012	071-0012	Reconfigure Utilities N. Side Ellis ECP-FD011	7		Authorized	12/08/11	+2,448	Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #4	Amendment 4 Approved
1551-0013	071-0013	Extend SubSidewalk Closure Wall ECP-FD013	7		Authorized	12/08/11	+85,233	Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #4	Amendment 4 Approved
1551-0014	071-0014	Reroute OCS to Fifth St. ECP-FD014	7		Authorized	12/08/11	+4,794	Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #4	Amendment 4 Approved
1551-0015	071-0015	Retrieval Shaft Redesign - Sewer By Pass	7				+56,000	Awaiting documentation from Designer	
1551-0016	071-0016	Design Measures for Settlement Protection	7				+99,000	Awaiting documentation from Designer	
1551-0017	071-0017	Incorporate Headwalls MOS/UMS	1		Disagree at this time	11/01/11	+42,000	In letter dated November 1, 2011 DPM responded that until concurrence with DP2 on cost transfer or additional documentation, the requested change is denied.	
1551-0018	071-0018	Prepare Utility Composite	-		Disagree	11/01/11	+50,000	DPM responded that Program does not agree in letter dated November 1, 2011.	
1551-0019	071-0019	Incorporate Cross Passages	1		Disagree at this time	11/01/11	+43,000	In letter dated November 1, 2011 DPM responded that until concurrence with DP2 on cost transfer or additional documentation, the requested change is denied.	
Contract CS-155-1 T	otal						+986,882	Of the total cost exposure shown, Contract Modifications and Authorized Option dollars have been absorbed by DP1 allocated contingency in the amount of \$696,483 of a total budget of \$705,000. Additional potential exposure is +\$391,411. Currently, overall contract value remains unchanged in the amount of \$6,500,000.	
Contract CS-155-2									
1552-0001	072-0001	Optional Task 2.50 and Task 12.07	1		Authorized	05/06/10	+274,775	CS Letter 0473 from ED/CEO Optional Task 2.50 to support art enhancement activities NTE \$164,383 and Optional Task 12.07 to support design structures for Public Art NTE \$110,392.	
1552-0002	072-0002	Expanded Hydraulic Testing at CTS	7		Authorized	07/01/10	+26,100	Estimated cost breakdown is included in the 7/1/10 letter from CSDG and includes signed approval by SFMTA. Amendment No. 1 authorized by ED/CEO on 12/21/11. COMPLETE, NO FURTHER ACTION; Amendment #1	Amendment 1 Approved
1552-0003	072-0003	Additional Soil Borings at UMS Station - Task No. 3.10 Supplemental Investigations	7		Authorized	11/02/10	+34,500	Estimated cost breakdown is included in the 10/11/10 letter from CSDG and includes signed approval by SFMTA. Amendment No. 1 authorized by ED/CEO on 12/21/11. COMPLETE, NO FURTHER ACTION; Amendment #1	Amendment 1 Approved
1552-0004	072-0004	MOS TOD White Paper Proposal	1				+33,847	Conceptual study will assess a potential high rise building at the Moscone station headhouse. Estimated cost breakdown is included in the 2/11/2011 letter from CSDG - On Hold.	
1552-0005	072-0005	CTS - Alternate 5	7		Authorized	03/24/11	+950,000	CS Letter from DED dated 3/24/11 has agreed to a modification of \$950,000 for performing additional work. Amendment No. 1 authorized by ED/CEO on 12/21/11. COMPLET, NO FURTHER ACTION; Amendment #1	Amendment 1 Approved
1552-0006	072-0006	Audited Overhead Rate Adjustment for Year 2010 - Request for Amendment	7				-0-	Estimated cost of \$406,320 is included in the 6/28/11 letter from CSDG. See 1552-0006 Rev. 1 for most current estimate	
1552-0007	072-0007	REVIT and CAD Support (to City Staff) Option to DP2 Contract (Optional Services Task 12.12)	1		Authorized	07/25/11	+79,200	CS Letter No. 0768 from ED/CEO dated 7/25/11 has authorized Optional Task 12.12 NTE \$79,200.	
1552-0008	072-0008	MOS Revisions to Emergency Ventilation Requirements	-		Provide further Justification	09/07/11	-0-	CMB did not approve a \$60,000 proposed increase. Document References ECP FD028, CSDG letter dated 8/8/11. DPM responded that program does not agree in letter dated 10/17/11.	
1552-0009	072-0009	CTS Revisions to Emergency Ventilation Requirements	-		Provide further Justification	09/07/11	-0-	CMB did not approve an \$80,000 proposed increase. Document References ECP FD029, CSDG letter dated 8/8/11. DPM responded that program does not agree in letter dated 10/17/11.	
1552-0010	072-0010	UMS Revisions to Emergency Ventilation Requirements	-		Provide further Justification	09/07/11	-0-	CMB did not approve a \$100,000 proposed increase. Document References ECP FD030, CSDG letter dated 8/8/11. DPM responded that program does not agree in letter dated 10/17/11.	
1552-0011	072-0011	Audited Overhead Rate Adjustment for Year 2010 - Request for Amendment - Rev. 1	7				+426,322	Estimated cost breakdown is included in the 8/17/11 letter from CSDG. This is a revision to the 6/28/11 letter and cost breakdown.	
1552-0012	072-0012	Station Air Replenishment System	-		Disagree	10/17/11	+36,240	Estimated cost breakdown is included in the 8/23/11 letter from CSDG. DPM responded that program does not agree in letter dated 10/17/11.	
1552-0013	072-0013	COR for Additional Services Related to MOS Constructability Review and Assessment of Alternatives	-				-0-	Cost charged to Task 2.70- part of base work	

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ltem #		Change Description	Change Type	CMB No.	Change St		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
					Approval Action	Approval Date	Actual/Forecast		
1552-0014	072-0014	Proposal for Additional Work to provide Structural Engineering Support (Optional Services)	1		Authorized Optional Task 12.01.C5 only	11/04/11	+35,724	Estimated cost breakdown is included in the 9/22/11 letter from CSDG. Referenced Optional Work Tasks 12.01.C5 and 12.07.C5 - Effort re-evaluated - proposed cost to be resubmitted. CS Letter No. 1232 dated 11/4/11 from Director of Transportation has authorized Optional Task 12.01.C5 for the amount of \$12,796.	Option
Contract CS-155-2 T	otal						+1,896,708	Of the total cost exposure shown, Contract Modifications and Authorized Option dollars have been absorbed by DP2 allocated contingency in the amount of \$1,046,324 of a total budget of \$4,890,707. Overall contract value remains unchanged in the amount of \$39,949,959.	
Contract CS-155-3									
1553-0001	073-0001	Authorization to commence optional tasks 9.20J Technical Specifications Item J Facility SCADA	1		Authorized	08/01/11	+259,305	SFMTA letter 0933 from ED/CEO dated 8/9/11authorizing \$738,787 in optional tasks. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0002	073-0002	ation to commence optional tasks 12.05 Architectu	1		Authorized	08/01/11	+257,129	SFMTA letter 0933 from ED/CEO dated 8/9/11authorizing \$738,787 in optional tasks. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0003	073-0003	Authorization to commence optional tasks 12.13J Facility SCADA Design	1		Authorized	08/01/11	+169,553	SFMTA letter 0933 from ED/CEO dated 8/9/11authorizing \$738,787 in optional tasks. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0004	073-0004	Authorization to commence optional tasks 12.12E traction power cables for CAD production	1		Authorized	08/01/11	+52,800	COMPLETE, NO FURTHER ACTION, OF HON SFMTA letter 0933 from EO/CEO dated 8/9/1authorizing \$738,787 in optional tasks. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0005	073-0005	Proposal to hire Wilson Ihrig to support Acoustics, Noise and Vibration tasks.	7		Authorized	03/08/12	+38,380	Signed by Director of Transportation 3/8/2012. COMPLETE, NO FURTHER ACTION ; Amendment 2	Amendment 2 Approved
1553-0006	073-0006	Proposal to exercise optional task 12.07 Public Art.	1		Authorized	11/04/11	+10,285	Letter dated 9/22/11 to DOM. PMCM response pending. Priced level of Effort assumed for this task. SFMTA Letter 1213 from Director of Transportation dated 11/4/11 authorizing optional task.	
1553-0007	073-0007	Proposal to exercise optional sub-task 12.12 structural design of the OCS attachments.	7				+59,460	Letter dated 9/27/11to DOM. NOT FOLLOWING CONTRACT REQUIREMENTS FOR PROPER NOTIFICATION OF CHANGE. PMCM has responded to clarify scope in stations and Tunnel Design. Awaiting resubmittal of request by DP3	
1553-0008	073-0008	Scope Clarification - Add Emergency and Location Signage.	7		Disagree A.12.08- Signage	11/09/11		Letter dated 10/5/11 to DOM. NOT FOLLOWING CONTRACT REQUIREMENTS FOR PROPER NOTIFICATION OF CHANGE. CS Memo No. 0882 from DOM to DP3 PM considers A.12.08 Signage as part of the work necessary to complete the trackway elements of the scope. The work in question is considered part of the base scope of services.	
1553-0009	073-0009	Proposal to exercise mechanical optional task A 12.11 to design a water line on the FBS station platform.	1		Authorized	11/04/11	+33,000	SFMTA Letter 1213 from Director of Transportation dated 11/4/11 authorizing optional task. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0010	073-0010	Proposal to exercise Task 12.01 Surface Segment site Drainage	1		Authorized	11/04/11	+108,240	SFMTA Letter 1213 from Director of Transportation dated 11/4/11 authorizing optional task. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0011	073-0011	Proposal to exercise Task 12.02 Sewer Relocation and Analysis Report.	1		Authorized	11/04/11	+81,374	SFMTA Letter 1213 from Director of Transportation dated 11/4/11 authorizing optional task. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0012	073-0012	CTS - Alternate 5	7		Authorized	01/18/12	+88,855	Contract Modification No. 1 authorized by ED/CEO on 1/18/12 COMPLETE, NO FURTHER ACTION; Amendment #1	Amendment 1 Approved
1553-0013	073-0013	Proposal for Geotechnical Services	7		Authorized	01/18/12	+64,027	Letter dated October 7, 2011 to DOM. PM/CM response pending. Contract Modification No. 1 authorized by ED/CEO on 1/18/12 COMPLETE, NO FURTHER ACTION; Amendment #1	Amendment 1 Approved
1553-0014	073-0014	Authorization to commence optional tasks 12.12E traction power cables for CAD production, Optional task 2.50 Coordination with Art			Authorized	02/06/12	+54,712	SFMTA Letter 1381 from Director of Transportation dated 2/06/12 authorizing optional tasks 12.12e in the amount of \$41,280 and 2.50 for \$13,432 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0015	073-0015	Proposal for additional services in Response to Approved (ECP) FD-034 Operation Performance and Safety Enhancements to 4th and King and 6th and King.	1				+26,026	FD-034 was updated by CMB on 3/14/12. Proposal transmitted via letter CS1553 No. 0012 dated 3/20/12 to DOM. Amendment #4 PENDING	Option
1553-0016	073-0016	Proposal for additional work - Tunnel Air Replenishment System (Exercise Optional Service)	7		Authorized	04/26/12	+173,119	SFMTA letter 1658 from Director of Transportation dated 4/26/2012 authorizing \$173,119 in optional tasks. Included in FD-035 to be presented to CMB on 6/26/12	Option

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ltem #		Change Description	Change Type	CMB No.	Change St		Projected Cost Impact +Exposure/(Benefit)	Comments	
					Approval Action	Approval Date	Actual/Forecast		
1553-0017	073-0017	Extension of PC Support Technician	1		Authorized	05/04/12	+34,483	Signed by Director of Transportation 5/14/12 CCOMPLETE, NO FURTHER ACTION; Amendment #3	Amendment 3 Approved
1553-0018	073-0018	Extension of CSP Quality Manager	1		Authorized	05/04/12	+61,043	Signed by Director of Transportation 5/14/12	Amendment 3 Approved
1553-0019	073-0019	Authorization to commence optional task 12.02 Utility Plans for design of repositioned and reconstructed manholes for the 78 inch diameter sewer on 4th St.	1		Authorized	04/09/12		SFMTA Letter 1630 from the Director of Transportation dated 4/9/2012 authorizing optional task 12.02 in the amount of \$52,712 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0020	073-0020	Authorization to commence optional task 12.12 civil and structural support for traction power duct banks	1		Authorized	04/09/12	+109,000	SFMTA Letter 1630 from the Director of Transportation dated 4/9/2012 authorizing optional task 12.12 in the amount of \$109,000 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0021	073-0021	Authorization to commence optional task 12.11 design of the tunnel based Air Replenishment System including fill panels, feeder pipes, gauges, valves, fire proofing, anchors, supports, low level alarms, wiring, signage, connections to SCADA and monitoring devices, equipment placement, and impact protection	1		Authorized	04/26/12	+173,119	SFMTA Letter 1658 from the Director of Transportation dated 4/26/2012 authorizing optional task 12.11 in the amount of \$173,119 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0022	073-0022	Increased authorization for optional task 12.12.e CAD production support	1		Authorized	04/26/12		SFMTA Letter 1658 from the Director of Transportation dated 4/26/2012 authorizing the increase in optional task 12.12e in the amount of \$30,000 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0023	073-0023	Authorization to commence option task 12.11 structural design support for Fire Protection and Plumbing designs	1		Authorized	05/21/12		SFMTA Letter 1688 from the Director of Transportation dated 5/21/2012 authorizing the increase in optional task 12.11 in the amount of \$39,204 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0024	073-0024	Authorization to commence optional task 12.12 structural design support for Traction Power and Power/Lighting designs	1		Authorized	05/21/12		SFMTA Letter 1688 from the Director of Transportation dated 5/21/2012 authorizing the increase in optional task 12.12 in the amount of \$43,638 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0025	073-0025	Authorization to commence optional task 12.13 structural design support for Telephone and CCTV designs	1		Authorized	05/21/12		SFMTA Letter 1688 from the Director of Transportation dated 5/21/2012 authorizing the in crease in optional task 12.13 in the amount of \$24,328 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0026	073-0026	Authorization to commence optional task 9.20 Technical Specifications for structural design support for above designs	1		Authorized	05/21/12		SFMTA Letter 1688 from the Director of Transportation dated 5/21/2012 authorizing the increase in optional task 9.20 in the amount of \$3,039 COMPLETE, NO FURTHER ACTION; OPTION	Option
Contract CS-155-3 1	Total						7,814,010.46	Of the total cost exposure shown, Contract Modifications and Authorized Option dollars have been absorbed by DP3 allocated contingency in the amount of \$1,168,995 of a total budget of \$4,598,725. Overall contract value remains unchanged in the amount of \$19,919,526.	

CENTRAL SUBWAY PROJECT - Configuration Management Board Change Control Log

	Initial Implementing Procedure				СМВ	
Change Form No.	Title of Change	Schedule Impact	st Impact (X,000)	CMB No.	Agree / Disagree	Final Decision Record Date
1250-0002	Chgs to Sewer on 4th between Howard and Folsom		\$ 107	CMB-0001	Agree	07/12/10
1250-0003	Quantity Adjustment for JT-6 and JT-7		\$ 192	CMB-0002	Agree	08/04/10
1250-0004	Demolition of existing brick and concrete footing on 4th between Howard and Folsom		\$ 170	CMB-0003	Agree	07/12/10
1250-0005	Modify AWSS at 4th/Bryant and 4th/Harrison		\$ 586	CMB-0004	Agree	08/04/10
1250-0006	Install four additional piles and reinforce existing foundation at 401 4th Street		\$ 130	CMB-0005	Agree	08/25/10
FD-001	Narrowing of Platform at UMS	1	\$ (800)	CMB-0006	Agree	08/04/10
FD-004	UMS Structural Configuration	1	\$ (8,000)	CMB-0007	Agree	08/18/10
FD-006	Station Headwalls - UMS/MOS		\$ -	CMB-0008	Agree	08/18/10
FD-002	Redux of Station Emergency Ventilation Fans - UMS/CTS/MOS	1	\$ (3,000)	CMB-0009	Agree (Conditionally)	08/25/10
FD-005	UMS Alternate Station Access/Vent Shaft @ Union Square	1	\$ (22,500)	CMB-0010	Agree	12/29/10
FD-016	Underpinning of Mandarin Tower		\$ 5,000	CMB-0011	Over Taken by FD-021	01/19/11
FD-017	CTS Ground Improvement	1	\$ 10,300	CMB-0012	Over Taken by FD-021	01/19/11
FD-018	UMS Apple Store Entrance	1	\$ -	CMB-0013	Disagree	11/10/10
FD-019	MOS TOD Configuration	1	 TBD	CMB-0014	Agree	11/10/10
FD-020	UMS Emergency Stair #4 Relocation	1	TBD	CMB-0015	Agree	11/10/10
1250-0016	Additional AWSS modification at 4th/Harrison	1	\$ 156	CMB-0016	Agree	11/10/10
FD-008	Trolley Re-route @ Columbus & Powell	1	\$ 2,000	CMB-0017	Agree	09/15/10
FD-007	Cross-passages		\$ -	CMB-0018	Agree	09/15/10
FD-009	ECP to Modify Sidewalk Vault Demolition and Construction Sequence to Facilitate Construction of Joint Utilities Trench and Future UMS Station		\$ 3,000	CMB-0019	Agree	12/15/10
FD-010	Redesign Stockton Street Sanitary Sewer to conform to SFPUC Sewer Criteria that preclude placement of relocated sanitary sewer under sidewalks		\$ 2,000	CMB-0020	Agree	11/17/10
FD-011	Reconfigure Routing of Water, Sewer and Gas laterals from buildings on north side of Ellis Street		\$ 500	CMB-0021	Agree	11/17/10
FD-012	Recognize cost transfers from design allowances allocated to contingency to explicit line items in final design estimates		\$ -	CMB-0022	Disagree	11/17/10
FD-013	Increase Extent of Sub-sidewalks Vault Secondary Closure Walls and Waterproofing		\$ 4,100	CMB-0023	Agree	11/17/10
FD-014	Include OCS system for rerouting trolley buses to Fifth Street		\$ 3,100	CMB-0024	Agree	12/15/10
FD-015	Subsidewalk Vault Secondary Closure Walls for Buildings at 800 Market and 838 Market		\$ 1,000	CMB-0025	Agree	11/17/10
1250-0022	Install additional 30 feet of DIP and new AWSS at 4th/Harrison		\$ 160	CMB-0026	Agree	01/12/11
FD-021	CTS Lowering and Stations Reconfiguration		\$ (18,000)	CMB-0027	Agree	01/19/11
1250-0026	Supporting working around and protecting SFWD existing facilities		\$ 66	CMB -0028	Agree	02/09/11
1251-003	Extending Sewer lines on O'Farrell and Geary - CMod 001		\$ 149	CMB-0029	Agree	02/23/11
1250-0030	Differing site conditions during utility installations - CMod #16 - Public only	1	\$ 238	CMB-0030	Agree	04/13/11

CENTRAL SUBWAY PROJECT - Configuration Management Board Change Control Log

	Initial Implementing Procedure				СМВ	
Change Form No.	Title of Change	Schedule Impact	st Impact K,000)	CMB No.	Agree / Disagree	Final Decision Record Date
1251-0004	Additional work related to secondary basement closure wall, 150 Stockton Street		\$ 190	CMB-0031	Agree	04/13/11
FD-023	Change to the emergency walkway configuration in the cross cavern at CTS]	\$ -	CMB-0032	Agree	07/27/11
FD-024	Change No. 5 diamond X-over on surface segment to tandem (universal) crossover		\$ (350)	CMB-0033	Agree	08/24/11
FD-025	Bid Option for TBM Retrieval Shaft]	\$ (10,000)	CMB-0034	Agree	04/13/11
1251-0002	Installation of concrete slab under joint trench at Stockton and O'Farrell CMod #02 (NTE Total)		\$ 71	CMB-0035	Agree	04/20/11
1250-0029	Adjustment to Additional Excavation and Backfill Bid Item CMod #17		\$ 112	CMB-0036	Agree	05/04/11
1250-0034	Supplement Bid Item TR-06 DPT Traffic Control Allowance CMod #18		\$ 69	CMB-0037	Agree	05/04/11
1251-0009	Supplement Bid Item TR-07- Allowance for Manual Traffic Control with Add'I funds		\$ 263	CMB-0038	Agree	06/01/11
1251-0006	Revising layouts of utilities, northern portion of Stockton Street CMod #05]	\$ 399	CMB-0039	Agree	06/08/11
FD-026	Air Replenishment Systems in the three underground stations]	\$ 1,245	CMB-0040	Agree	07/13/11
1250-0036	Rental/Maintenance costs for support of Archeological Trenches - 05/30: SFMTA Board approval due to contract value exceeding the 25% threshold remaining item will be handled through the claims process. CM will provide and update at a later date. 09/12/12: Rental/Maintenance costs for support of Archeological Trenches (Part 1 of 4), (Part 2 of 4), (Part 3 of 4, (Part 4 of 4)		\$ 597	CMB-0041	Agree	09/12/12
1251-0012	Compensate Contractor for additional expenses to modified installation of AWSS on O'Farrell East on Stockton St CMod #07 representing change, now CMod #06 (Refer to Approve CMB-0050, which notes the contract modification amount for this work)		 -	CMB-0042	Agree	08/03/11
FD-027	1 Stockton Street (Apple Store) Secondary Closure Wall		\$ 500	CMB-0043	Agree	08/03/11
X53-001	CS 155-2 (DP2) CBP4 (UMS) - Construction Budget Adjustment YOE		 -	CMB-0044	Agree	07/27/11
X54-001	CS 155-2 (DP2) CBP5 (CTS) - Construction Budget Adjustment YOE		 -	CMB-0045	Agree	07/27/11
X55-001	CS 155-2 (DP2) CBP6 (MOS) - Construction Budget Adjustment YOE		 -	CMB-0046	Agree	07/27/11
1250-0012 & 0013	Differing site conditions during utility installations - CMod #21 - Private only		\$ 98	CMB-0047	Agree	08/03/11
1250-0024	Costs associated with support, workaround and protection of existing AT&T utilities - CMod #19		\$ 95	CMB-0048	Agree	08/24/11
1251-0007	Costs associated with design changes to utility layouts along Ellis Street - CMod #05		\$ (435)	CMB-0049	Agree	08/24/11
1251-0012	Additional expenses related to modified installation of the AWSS on O'Farrell East of Stockton St - CMod #06 (Ref. CMB-0042 for original CMod presented for this work)]	\$ 278	CMB-0050	Agree	09/21/11
1251-0017 & 0018	Installation of AT&T manholes 5829 and 5830 located on Geary at Stockton - CMod #07]	\$ 56	CMB-0051	Agree	09/21/11
FD-028	MOS Revisions to Emergency Ventilation Requirements]	\$ 500	CMB-0052	Agree	09/07/11
FD-029	CTS Revisions to Emergency Ventilation Requirements]	\$ 1,000	CMB-0053	Agree	09/07/11

CENTRAL SUBWAY PROJECT - Configuration Management Board Change Control Log

	Initial Implementing Procedure				СМВ	
Change Form No.	Title of Change	Schedule Impact	st Impact X,000)	CMB No.	Agree / Disagree	Final Decision Record Date
FD-030	UMS Revisions to Emergency Ventilation Requirements		\$ 1,000	CMB-0054	Agree	09/07/11
1251-0014	Increase Bid Item WD-10 Allowance for Add'I Excavation and Backfill - CMod #09		\$ 200	CMB-0055	Agree	09/14/11
1251-0027	AT&T installation additional cost to accelerate work - CMod #10		\$ 281	CMB-0056	Agree	11/30/11
1251-0019 & 0028	Installation of AT&T manholes 5828, 5831, 113, 5832 and 403 - CMod #11		\$ 188	CMB-0057	Agree	10/26/11
1251-0020, 0030 & 0031	PG&E Field Changes - Cost will be part of the Form B calculations and be included in the reimbursement from PG&E. (<i>Formally CMod #12 New CMod number is 21)</i>		\$ 89	CMB-0058	Agree	11/02/11
1251-0024 & 0032	PG&E Field Changes - (Formally CMod #13 New CMod number is 19) 1/25: Revision to the number of Kill Tie in locations will reduced this CMod to \$315K when conditions are satisfactorily met. 04/11 : Discovery of the actual number of Kill/Tie locations being 26 instead of 15 will require confirmation from PG&E of the locations and the new cost of scope of work . 05/02: Previously approved CMod for \$349K on 11/16/11. Revised CMod approved for 12 Kill hole locations and "NTE" value. PGE email concurrence presented 05/23/12		\$ 303	CMB-0059	Agree	11/16/11
X54-005	Revisions to MPS - CTS Construction Schedule		\$ -	CMB-0060	Agree	12/28/11
X55-002	MPS - STS Construction Schedule Revision for Procurement of Equipment		\$ -	CMB-0061	Agree	12/28/11
FD-034	STS 4th and King Operational Performance and Safety Enhancements. 12/14/11: Agree contingent up "Buy America" waiver. 03/14: "Buy America" contingency no longer applicable. Revised ECP change element - Removing H&K switches and replace with hydraulic/120V. Revised CSP Design Criteria to reflect element design change. CMB approval of replacement agreed on 03/14/12. Revision made to the approved ECP at Mtgs. #71 & #72.		\$ 450	CMB-0062	Agree	12/14/11
CS-155-2	CS 155-2 (DP2) CTS Construction Budget Adjustment - (65% Submittal)		\$ 45,261	CMB-0063	Agree	12/21/11
1251 -0038 (TO 035)	CN1251 (3EA) Kiosk Removal; previous work, and Addl (2EA) new work (see CMB 0080 approved on 10/24/12 for \$29,267.83) for all (5EA) Kiosks.		\$ -	CMB-0064	Agree	01/04/12
1251-0023	Overhead Contact System (OCS) Facilities along Folsom St. between 4th & 5th Streets and Installation of Foundations and Poles - CMod #12 (Formally CMod #15 - less than 50K) Condition agreed upon verification material from Contractor to be procured is available. (Verified 02/01/12). 02/29: CMod negotiated cost has been revised to incorporate original three items and the add'l OCS work on Folsom St.		\$ 542	CMB-0065	Agree	02/29/12
CS-155-2	CS 155-2 (DP2) UMS Construction Budget Adjustment - (65% Submittal)		\$ 27,986	CMB-0066	Agree	02/01/12
CS-155-2	CS 155-2 (DP2) MOS Construction Budget Adjustment - (65% Submittal)		\$ 22,947	CMB-0067	Agree	02/01/12
1251 - 0033	Installation of Secondary Closure Wall at 1 Stockton St. (Apple Store) - CMod #13 (Formally CMod #14) (Negotiated Direct Cost \$264K, & Negotiated OH Cost \$143K)		\$ 409	CMB-0068	Agree	03/07/12

CENTRAL SUBWAY PROJECT - Configuration Management Board Change Control Log

	Initial Implementing Procedure				СМВ	
Change Form No.	Title of Change	Schedule Impact	t Impact (,000)	CMB No.	Agree / Disagree	Final Decision Record Date
	Additional work related to discovery of conflicting utilities within the subsidewalk basement at 17-19 Stockton Street. (Worst case scenario - "NTE" value) CM team will report actual amount value at a later date.		\$ 346	CMB-0069	Agree	04/04/12
	Installation of approximately 150LF in additional AT&T trenching (including conduit packages) and the installation of AT&T Vault No.133 (Reimbursement to SFMTA for this compensation value via the Form B process - CMod #14		\$ 100	CMB-0070	Agree	04/11/12
FD-035	Tunnel Air Replenishment System (ARS)		\$ 1,215	CMB-0071	Agree	07/11/12
FD-036	Surface Segment Sewers - 4th St. Base and SFPUC Option	1	\$ 2,200	CMB-0072	Agree	07/18/12
1252-025	UMS Reduced Duration - 08/01/12 :Condition upon incorporating correctness to backup documentation as required by & documented in CMB mtg.		\$ -	CMB-0073	Agree (Conditionally)	08/01/12
1251-0050, 0067, 0074 & 0075	Trend #50 - Installation of MUNI 770 Pole at 5th and Folsom Trend #67 - OCS Feeder Work On Folsom Trend #74 - Traffic Signal Modifications At 5th And Folsom Trend #75 - Unforeseen Conditions During Pole Foundation Installation On Folsom		\$ 1,100	CMB-0074	Agree	08/15/12
1251-0068	Additional time related overhead (TRO) costs resulting from the 29EA calendar day Contract extension		\$ 107	CMB-0075	Agree (Conditionally)	10/03/12
,	Trend #43 FAR for Demolition of existing AT&T Vault #113 and 403 Trend #72 Additional AT&T trench from Vault #5829 and 127 Trend #80 Additional work related to installation of AT&T Vaults #5828, 5829, 5830, 5831, 5832 and 5833.		\$ 129	CMB-0076	Agree (Conditionally)	10/03/12
FD-037	Platform Display System Signs - 08/29/12: Condition follow up action to evaluate procumbent by CN1260)		\$ 500	CMB-0077	Agree (Conditionally)	08/29/12
1251-0037, 0044 & 0045	Gucci Store, Macy's West and Union Square Garage Sewer Installations		\$ 71	CMB-0078	Agree	09/12/12
1251-0052, 0065 and 0070	Trend #52 - Reroute Unforeseen existing waterline discovered along Geary St (east of Stockton St.) Trend #65 - Additional fittings for AWSS lateral and chipping of pole foundation at Market/Ellis Streets Trend #70 - Core drill primary wall and install interior plumbing at Armani and Disney for the completion of fire service water cutover work.		\$ 65	CMB-0079	Agree	10/10/12

CENTRAL SUBWAY PROJECT - Configuration Management Board Change Control Log

	Initial Implementing Procedure				СМВ	
Change Form No.	Title of Change	Schedule Impact	*Cost Impac (X,000)	t CMB No.	Agree / Disagree	Final Decision Record Date
1251-0038, 0039, 0054,0062 and 0073	Trend #38 - Reimburse Synergy for JCDecaux's removal of 2EA kiosks and other Central Subway related work (<i>TO</i> #35 for this work approved on 01/04/12 - CMB 0064). Trend #39 - Furnish and install 2EA benches along 5th Street. Trend #54 - Additional waterproofing at FIDM and north end of Crate and Barrel. Trend #62 - Additional waterproofing at Macy's Men's wall . Trend 73 - Additional work to install water and electrical utilities for flower stand on Geary west of Stockton.		\$8	6 CMB-0080	Agree	10/24/12
1251-0077	Additional Work Related to Qwest, TCG and UCCO Infrastructure - Contingent CMod pig to include evidence from all utilities that cost are reimbursable to SFMTA		\$ 4	1 CMB-0081	Agree (Conditionally)	10/31/12
1251-0047, 0058, 0076, and 0078	Muni Vault 900A, Additional SL Work, Additional OCS Work		\$ 7	6 CMB-0082	Agree	10/31/12
1251-0049, 0053, 0059 and 0064	Contract Acceleration work and Additional Rebar work at 1 Stockton Street Trend #49 Additional cost related to installation of additional rebar at 1 Stockton Street Trend #53 Additional costs to accelerate Contract work related to AT&T and PG&E vaults Trend #59 Additional costs to accelerate Contract work as required to clear Barneys frontage Trend #64 Accelerate finishing/detailing work on AT&T and PG&E vaults		\$ 4	1 CMB-0083	Agree	11/07/12
1252	Retrieval Shaft Options (Board Action) for approval presented to the Directors by J.F.			- CMB-0084	Agree	12/05/12
1252-COR26	MOS - Asbestos Pipe at south headwall - NTE \$30K		\$ 3	CMB-0085	Agree	01/09/13
1252-COR02	Pre-excavation to remove concrete encased sewer line. \$13K increase of original \$45K for a total of \$58K NTE		\$ 5	3 CMB-0086	Agree	12/19/12
1252-COR15	Additional work to restrain the AWSS line - NTE \$96K		\$ 9	6 CMB-0087	Agree	12/19/12
1252-COR06	PG&E live electrical delays - NTE \$7,600		\$	3 CMB-0088	Agree	01/09/13
1252-COR27	MOS Oil Filled Pipe at south headwall - NTE \$8,600		\$	9 CMB-0089	Agree	01/09/13
1252-COR22	MOS Asbestos Pipe at north headwall - NTE \$6K		\$	6 CMB-0090	Agree	01/09/13
1252-COR01	AWSS Conflict with Low Pressure Water - NTE \$16,900		\$1	7 CMB-0091	Agree	01/16/13
1252-COR03	AT&T Vault Conflict -4th & Harrison - NTE \$21,089		\$2	1 CMB-0092	Agree	01/16/13
1252-COR07	Oil Filled pipe @ Launch Box - NTE \$10K		\$1	CMB-0093	Agree	01/16/13
1252-COR10	MOS - Demo Pea duct bank / SF City 911 fiber optic line - NTE \$4,915		\$	5 CMB-0094	Agree	01/16/13
1252-COR11	MOS - Traffic Signal line re-route south headwall - NTE \$37,500		\$3	3 CMB-0095	Agree	01/16/13
1252-COR12	MOS - Archaeological Standby North Headwall - NTE \$16,892		\$1	7 CMB-0096	Agree	01/16/13
1252-COR29	MOS - Todco scaffolding reimbursement - NTE \$1,717		\$	2 CMB-0097	Agree	01/16/13

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1252-COR41	LB Impacts due to live PG&E electrical lines (Flagging) NTE \$1,245		\$1	CMB-0098	Agree	01/16/13
1252-PCC01	Revisions to Moscone North Headwall Elevation (Top) NTE \$20,500]	\$ 21	CMB-0099	Agree	01/16/13
1252 PCC09	UMS Headwall - Unknown Buried Pipe - NTE \$75K		\$ 75	CMB-0100	Agree	01/16/13
1252-COR.38	Manhole in West side Guidewalls Footprint - NTE \$4,052.17		\$ 4	CMB-0101	Agree	01/23/13
1252-COR39	MOS - 16" Steel Pipe Removal at North east Headwall - NTE \$2,951.99		\$ 3	CMB-0102	Agree	01/23/13
1252-COR46	UMS - Unmarked Steel Pipes (6", 12" and 14") & Duct Bank - NTE \$7,461.14		\$7	CMB-0103	Agree	01/23/13
1252-COR47	Retrieval Shaft - Unmarked 10" Steel Pipe / Duct Bank Removal - NTE \$2,201.54		\$2	CMB-0104	Agree	01/23/13
1252-PCC11	Cap and Removal of 48" Steel Pipe - NTE \$150,000		\$ 150	CMB-0105	Agree	01/23/13
1252-PCC07	BART Annex Wall - NTE \$15,380		\$ 15	CMB-0106	Agree	01/30/13
1251-05, 46, 51, 61, 63, 66, 69, 79, 81	 CMod #24 PG&E: 1. Trend 05 – Add'I wok to work around and shift existing PG&E conduits on Geary Blvd. at 2 locations 2. Trend 46 – Additional cost for enlarging PG&E Vault No. 584 on O'Farrell east of Stockton 3. Trend.51 – Intercept existing PG&E ductbank and terminate into Vault No. 5464 Market/Ellis 4. Trend 61 – Excavate for PG&E service cut-over at 177 Stillman 5. Trend 63 – Excavation and restoration for PG&E gas tie-in and kill holes (Pt.2) 6. Trend 66 – Intercept PG&E conduits at Vault No. 573 at Geary east of Stockton 7. Trend 69 – Removal of abandoned PG&E gas valve (8EA and installation of anodes 8. Trend 79 – Additional work related to the installation of PG&E Vault Nos. 467, 571, 573, 586 and 594 (including joint trench leading to these vaults). 9. Trend 81 – Use of regular concrete as opposed to cover PG&E electrical ductbanks. 		\$ 333	CMB-0107	Agree	02/13/13
1252-COR031	Retrieval Shaft Unmarked 12" Steel Pipe - NTE \$1,250		\$ 1	CMB-0108	Agree	02/27/13
1252COR-044	MOS - 16" Steel pipe removal at headwall - NTE \$1,800]	\$2	CMB-0109	Agree	02/27/13
	MOS - 12" Steel pipe removal at Union/Columbus Streets - NTE \$2,600		\$ 3	CMB-0110	Agree	02/27/13
1252-COR058	10" Steel pipe removal at Union and Columbus Streets - NTE \$860.86		\$1	CMB-0111	Agree	02/27/13
1252-COR066	MOS - 12" Steel pipe removal intersection of Union and Columbus - NTE \$3,800		\$ 4	CMB-0112	Agree	02/27/13
1252-PCC03	Modified Stockton St. Detour Signage Plan - NTE \$6,152.60		\$6	CMB-0113	Agree	02/27/13
1252-COR048	Removal of 3" x 5" brick sewer at UMS South Headwall - NTE \$12,474.65]	\$ 12	CMB-0114	Agree	03/13/13
1252-COR070	LB Jet Grout Quantity Overrun - Bid Item ES-3 - NTE \$599,900	1	\$ 600	CMB-0115	Agree	04/03/13

CENTRAL SUBWAY PROJECT - Configuration Management Board Change Control Log

Initial Implementing Procedure				СМВ		
Change Form No.	Title of Change	Schedule Impact	*Cost Impact (X,000)	CMB No.	Agree / Disagree	Final Decision Record Date
1252-COR079	Compensation Grouting - Old Navy - NTE \$70,000		\$ 70	CMB-0116	Agree	04/26/13
1252-COR079	Compensation Grouting - Old Navy (Inefficiencies) - NTE \$152,000		\$ 152	CMB-0117	Agree	05/15/13
1252-COR073	MOS - 16" Pipe removal at NE Headwall - NTE \$989		\$1	CMB-0118	Agree	05/08/13
1252-COR076	MOS - 16" Pipe removal at SE Headwall - NTE \$1,116		\$1	CMB-0119	Agree	05/08/13
1252-COR081	12" Waterline Tee Connection (MOS) South - NTE \$3,000.63		\$3	CMB-0120	Agree	05/15/13
FD-038	Elongated Sidewalk Bulb-out Chinatown Station at Stockton St. (CTS) 1254R - 1300Pkg		\$ 36	CMB-0121	Agree	06/05/13
1252-PCC13	UMS SFWD - Excavate, Support and Backfilling - NTE \$20K		\$ 20	CMB-0122	Agree	06/19/13
1252-COR051	Retrieval Shaft - Elevation Design Conflict (30" Low psi Water / Sewer) NTE \$21,100		\$ 21	CMB-0123	Agree	07/10/13
1252-PCC06	Additional Instrumentation of BART Tunnel Lining - NTE \$650K- Voided - Superseded by CMB Change #0130		\$-	CMB-0124	Agree	07/10/13
1252-COR061	Launch Box - Panel - 17 Buried Water Main Obstruction - NTE \$1,100		\$1	CMB-0125	Agree	07/24/13
1252-COR077	Compensation grouting at WFB-5 Drilling Obstruction - NTE \$6,125		\$6	CMB-0126	Agree	07/24/13
1252-COR083	Ellis Shaft Concrete Obstruction - NTE \$1,424		\$1	CMB-0127	Agree	07/24/13
1252-PCC13	SFWD Excavation, Support and Backfilling NTE \$14,100K		\$ 14	CMB-0128	Agree	08/09/13
1252- PCC06	Additional Instrumentation of BART Tunnel Lining - NTE \$305K Voided - Superseded by CMB Change #0130		\$-	CMB-0129	Agree	08/07/13
1252-PCC06	Additional Instrumentation of BART Tunnel Lining - NTE \$307,470		\$ 307	CMB-0130	Agree	08/09/13
1252-PCC12	Modification to Tunnel Alignment at Market Street - NTE \$41,470		\$ 41	CMB-0131	Agree	08/14/13
1252-COR037	UMS - 12" Steel Pipe Removal - NTE \$3,379.19		\$ 3	CMB-0132	Agree	08/28/13
1252-COR071	LB Ramp Excavation of Steel Obstruction - NTE \$5,700		\$6	CMB-0133	Agree	09/25/13
1252-COR099	MOS - AWSS Vault Over pour @ South Headwall - NTE \$2,400		\$2	CMB-0134	Agree	09/25/13
1252-COR024	Ellis shaft Utility Demolition - NTE \$35,628.22		\$ 36	CMB-0135	Agree	10/09/13
1252-COR032	LB Panel W29 Wood Pile - NTE \$41,961.00		\$ 42	CMB-0136	Agree	11/06/13
1252-COR034	LB Panel W28 Wood Pile - NTE \$43,294.00		\$ 43	CMB-0137	Agree	11/06/13
1252-COR042	LB Panel W25 Wood Pile - NTE 42,894.00		\$ 43	CMB-0138	Agree	11/06/13

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Initial Implementing Procedure				СМВ		
Change Form No.	Title of Change	Schedule Impact	*Cost Impact (X,000)	CMB No.	Agree / Disagree	Final Decision Record Date
1252-COR043	LB - Panel W30 Wood Pile - NTE \$14,197.00		\$ 14	CMB-0139	Agree	11/06/13
1252-COR062	LB - Panel P-9 Buried Obstruction - NTE \$41,588.00		\$ 42	CMB-0140	Agree	11/06/13
1252-COR065	LB – Panel P-12 Buried Obstruction - NTE \$40,523.00		\$ 41	CMB-0141	Agree	11/06/13
1252-COR079	Compensation Grouting – Old Navy (Remaining Costs) - NTE \$37,380.00		\$ 37	CMB-0142	Agree	11/06/13
1252-COR009	Impacts due to SFWD low psi water line - NTE \$5,727.00		\$6	CMB-0143	Agree	11/06/13
1252-COR017	Impacts @ North and South Headwalls due to live utilities - NTE \$43,219.00		\$ 43	CMB-0144	Agree	11/06/13
1252-COR067	LB – Panel P-10 Buried Obstruction - NTE \$9,984.00		\$ 10	CMB-0145	Agree	11/06/13
1252-FA-009	Obstruction hit at CSM panel W6 - NTE \$9,000		\$9	CMB-0146	Agree	12/11/13
1252- PCC20	Retrieval Shaft 3x5 Sewer Changes - North Beach - NTE \$10K		\$ 10	CMB-0152	Agree	03/12/14
1252- COR 69	UMS Shoring Impacts 48" AT&T Pipe - \$30K		\$ 30	CMB-0153	Agree	04/23/14
1300-PCC005	CTS - Chinatown Plaza Construciton Estimating Support - NTE \$75	`	\$ 75	CMB-0154	Agree	04/30/14
1252- COR096	Micropiles at UMS Tangent Pile SRB-H - NTE \$50,500K		\$51	CMB-0155	Agree	05/07/14
1252- COR102	UMS Jet Grout Column 18 DSC Headwall - NTE \$12K		\$ 12	CMB-0156	Agree	05/07/14
1252- COR098	BART - Additional Load Cells - NTE \$1065.72	`	\$1	CMB-0157	Agree	05/07/14
1252- COR018	Permanent End Stops at Moscone Headwalls - Claim #1 NTE \$140,000		\$ 140	CMB-0158	Agree	05/21/14
1252- COR30, 54,75	Hazardous Material Cost Impacts - Claim #2 NTE \$400.000		\$ 400	CMB-0159	Agree	05/21/14
1252- COR082	MOS 20" Conflict with 16" AWSS @ So. Headwall - NTE \$12,000	`	\$ 12	CMB-0160	Agree	05/21/14
1300- COR001	(Potholing) Utility Conflict at WD Tie-in STA 101+49		\$ 15	CMB-0161	Agree	06/04/14
1252-COR 085	SFWD Impacts at MOS North - NTE \$71, 633		\$ 72	CMB-0162	Agree	07/02/14
1252-COR 070	LB Jet Grout Quantity Overrun - Extended Qtys (241 CY) Bid Item ES-3 - NTE \$168,700		\$ 169	CMB-0163	Agree	07/02/14
	Total		\$ 84,669			