


Memorandum

CS Memorandum No. 1275

To: Distribution
From: Susan MacKenzie, Document Control Manager 
Date: October 30, 2012
Reference: Project No. M544.1, Contract No. CS-149
Task No. 1-8.02, Change Control
Subject: Configuration Management Board Meeting No. 98

Attached please find minutes for Configuration Management Board Meeting No. 98 held on October 24, 2012.

Attachments: CMB Meeting No. 98 Rev. 0 Minutes with attachments

Cc: David Kuehn, STV (w/attachments) david.kuehn@stvinc.com
Shahnam Farhangi, SFMTA (w/attachments)
Joon Park, SFMTA (w/attachments)
Arthur Wong, SFMTA (w/attachments)
Jane Wang, SFMTA (w/attachments)
Carlos Campillo, CSP (w/attachments)
Quon Chin, CSP (w/attachments)
Chuck Morganson, HNTB/B&C (w/attachments)
Aileen Read, CSDG (w/attachments)
CS File No. M544.1.5.0890

Distribution:

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Roger Nguyen, SFMTA
Richard Redmond, CSP
Ross Edwards, CSP
Mark Latch, CSP
Mark Benson, CSP
Eric Stassevitch, CSP
Beverly Ward, CSP
Sarah Wilson, CSP
Michael Acosta, DPW

CMB Meeting Minutes #98

DATE: October 25, 2012

MEETING DATE: **October 24, 2012**

LOCATION: 821 Howard St, Main Conference Room

TIME: 3:00 PM

ATTENDEES: J Funghi (JF), R. Nguyen (RN), A. Hoe (AH), R. Edwards (RE), M. Latch (ML), Richard Redmond (RR), M. Benson (MB), E. Stassevitch (ES), B. Ward (BW), M. Acosta (MA), S. Wilson (SW), L. Zurinaga (LZ), M. Lee (ML), B. Lebovitz (BL)

COPIES TO: Attendees: S. Farhangi (SF), A. Wong (AW), Q. Chin (QC), J. Wang (JW), C. Campillo (CC), C. Morganson (CM), A. Read (AR), J. Park (JP), D. Kuehn (DK), File No. M544.1.5.0890

REFERENCE: Project No. M544.1, Contract No. 149 Task 1-8.02
Final Design

SUBJECT: Configuration Management Board Meeting # 98– Rev. No. 0

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


ITEM #	DISCUSSION	ACTION BY DUE DATE
1	1251 – M. Benson and M. Acosta presented for approval Trend Nos. 38 - JCDeaux’s removal of 2EA kiosks; Trend No. 39 - installations of two each furnished benches along 5 th St., Trend No. 54 - Additional Waterproofing at FIDM and north end of Crate & Barrel, Trend No. 62 Additional Waterproofing at Macy’s Men’s land Trend No. 73, Additional work to install water and electrical Utilities for Fowler Stand on Gary west of Stockton. The CMB suggested the RE revise the supplemental change analysis for Trend #38 to include statement regarding “SFMTA’s inability to get the contractor to perform the work until advance payment had been received, additionally the Contractor required payment for related work already completed”. AGREE – CMB 0080	
2	1252 – M. Benson and Sarah Wilson presented for evaluation of merit COR 008 - Time Impact Analysis (TIA) for time extension of up to seven days (7) calendar days and relating to work to be performed under COR 001 AWSS Conflict with Low Pressure Water at Harrison, COR 002 Additional AWSS restraining @ 4 th & Harrison and COR 003 AT&T Vault conflict w/ 42” RCP Sewer Main, which were presented at CMB meeting #97. The contract documents do not give an accurate depiction of these changes and additional which impact the critical path activities. The CMB agreed with the evaluation of merit presented by the Construction team and directed the RE to go forward with contract change. In addition the RE stated that time impact costs associated with this COR will be brought back to the CMB for approval.	

ACTION ITEMS

ITEM #	MTG DATE	MTG ACTION DATE	DESCRIPTION	BIC	DUE DATE	STATUS
1	07/18/12	07/18/12	1252 – Grant Street Detour Cost Comparison	M. Benson	07/25/12	Open
3	07/25/12	08/01/12	1252 – MOS Traffic Signal Reroute (Trend#15)	M. Benson	08/15/12	Open
3	10/03/12	10/03/12	1251 – Detour Signage Quote from DPT	M. Benson	10/17/12	Open
5	08/08/12	08/29/12	1252 – PCC 1252-02 UMS Headwalls	M. Benson	10/10/12	Open
3	10/03/12	10/03/12	1252 – PCC 1252-03 Traffic Detour Signage	M. Benson	11/07/12	Open

Meeting adjourned at 4:40pm

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.

Signed:  [initials of preparer & reviewer] Date: 30 Oct 12 [Date review completed]

Meeting Agenda

**Project No. M544.1, Contract No. CS-149
 Program/Construction Management
 Configuration Management Board (CMB) Meeting No. 98**

October 24, 2012

3:00pm – 5:00pm

Central Subway Project Office
 821 Howard St. 2nd Floor
 Main Conference Room

Attendees:

Mark Benson	Albert Hoe	Matt Lee	Beverly Ward	
Ross Edwards	Jim Kelly	Roger Nguyen	Arthur Wong	
Shahnam Farhangi	David Kuehn	Joon Park	Luis Zurinaga	
John Funghi	Mark Latch	Richard Redmond		
John Haley	Brad Lebovitz	Eric Stassevitch		

1. **1250** – Nothing to Report
2. **1251** – Additional Work Related to JCDecaux, Waterproofing, Muni Bench and Flower Stand (Trend Nos. 38, 39, 54, 62 and 73) – *For Approval*
 – ~~Additional Work Related to Qwest, TCG and UCCO (Trend No. 77) – *For Approval*~~
3. **1252** – COR 8 (Trend No. 6): TIA for CORs 1, 2, & 3 – *For Merit* (COR's previously discussed at CMB Mtg. 10/10/12)
4. **1253 (UMS)** – Nothing to Report
5. **1254 (CTS)** – Nothing to Report
6. **1255 (MOS)** – Nothing to Report
7. **1256 (STS)** – Nothing to Report
8. **Trend/Change Log** –
9. **Other Business** –

Meeting Attendance Sheet

Project No. M544.1, Contract No. 149
Program/Construction Management
Configuration Management Board Meeting No. 98
October 24, 2012
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 initials if your name is listed below. Please enter name, affiliation, phone number and email address if your name is not listed below.				
Benson, Mark	CSP	(415) 701-4295	Mark.Benson@sfmta.com	<i>MCB</i>
Dombrowski, Charles	Hill/PCC	(415) 701-5272	Charles.Dombrowski@sfmta.com	
Edwards, Ross	CSP	(415) 581-5165	Ross.Edwards@sfmta.com	<i>RE</i>
Farhangi, Shahnam	SFMTA	(415) 554-0721	Shahnam.Farhangi@sfmta.com	
Funghi, John	SFMTA	(415) 701-4299	John.Funghi@sfmta.com	<i>JS</i>
Haley, John	SFMTA		John.Haley@sfmta.com	
Hoe, Albert	SFMTA	(415) 581-5164	Albert.Hoe@sfmta.com	<i>AH</i>
Kelly, Jim	SFMTA		Jim.Kelly@sfmta.com	
Kuehn, David	STV/PMOC	(510) 464-8053	David.kuehn@stvinc.com	
Latch, Mark	CSP	(415) 701-5294	Mark.Latch@sfmta.com	<i>ML</i>
Lebovitz, Brad	STV/PMOC	(510) 464-8052	Bradley.lebovitz@stvinc.com	<i>BL</i>
Lee, Matt	SFCTA	(415) 522-4813	matt@sfcta.org	<i>ML</i>

central **T** subway

NAME	AFFILIATION	PHONE	E-MAIL (for minutes)	INITIALS
Nguyen, Roger	SFMTA	(415) 701-4312	Roger.Nguyen@sfmta.com	RN
Park, Joon	SFMTA	(415) 701-4742	Joon.Park@sfmta.com	
Redmond, Richard	CSP	(415) 701-4288	Richard.Redmon@sfmta.com	RR
Stassevitch, Eric	CSP	(415) 701-4426	Eric.Stassevitch@sfmta.com	ES
Ward, Beverly	CSP	(415) 701-5291	Beverly.Ward@sfmta.com	BW
Wong, Arthur	SFMTA	(415) 701-4305	Arthur.Wong@sfmta.com	
Zurinaga, Luis	SFCTA	(415) 716-6956	Luis.zurinaga@sfcta.org	ZJ
Mike Acosta	CSP	701-5282		MA
sarah Wilson	CSP	243.0950	sarah.wilson@sfmta.com	

CMB Change No.: CMB - 0080

Initial Implementing Change Control Procedure No.: 1251 - CMod Trend #38, 39, 54, 62 and 73

GENERAL

Proposed Change Sponsor: M. Acosta Received by CMB: 10/24/2012
(Date)

Affected Disciplines: Utilities
Waterproofing


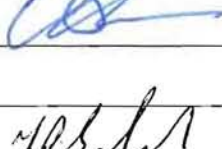
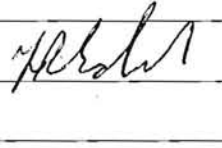

- Impacts of Change
1. Trend #38 - JCDecaux removal of kiosks
 2. Trend #39 - Installation of two each furnished benches along 5th St.
 3. Trend #54 - Additional Waterproofing at FIDM and north end of Crate and Barrel
 4. Trend #62 - Additional Waterproofing at Macy's Men's wall
 5. Trend #73 - Additional work to install Water and Electrical Utilities for Flower Stand on Geary west of Stockton

Contract(s) Directly Affected by this Proposed Change:

1250	1251	1252	1253	1254	1255	1256
1 <input type="checkbox"/>	2 <input checked="" type="checkbox"/>	3 <input type="checkbox"/>	4 <input type="checkbox"/>	5 <input type="checkbox"/>	6 <input type="checkbox"/>	7 <input type="checkbox"/>
(CP01)	(CP02)	(CP03)	(CP04)	(CP05)	(CP06)	(CP07)

CONFIGURATION MANAGEMENT BOARD APPROVALS

Signatures

	Agree with the Change	Disagree with the Change	Date
Senior Program Manager:			10-24-12
Deputy Program Manager:			10/24/12
PM Project Services:			
PM Project Development/Delivery:			10/24/2012
SFMTA O & M Manager:			
SFMTA Safety and Security			
SFCTA PMO			24 OCT 12

Comments

TREND NUMBERS 38, 39, 54, 62 AND 73

SFMTA Contract No. 1251
UNION SQUARE/MARKET STREET STATION
UTILITIES RELOCATION

Contractor: Synergy Project Management Inc.
30 Grant Street, Suite 300
San Francisco, CA 94108

SUPPLEMENTAL CHANGE ANALYSIS (FOR CMB APPROVAL)

SCOPE OF WORK:

Trend 38: Reimburse Synergy for JCDecaux's removal of 2EA kiosks and other Central Subway related work.

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.

REASON FOR CHANGE:

Trend 38: JCDecaux kiosks (2EA) were required to be removed in order to complete CN 1251 Contract work. However, JCDecaux required payment from the Contractor prior to completing this removal work. Additionally, JCDecaux required payment for work Central Subway related work already completed.

Trend 39: MUNI Operations requested installation of 2EA benches after the completion of the trolley reroute.

Trend 54: The sidewalk in front of FIDM and the north end of Crate and barrel did not have a subsidewalk basement, therefore the original Contract plans did not call for waterproofing of the primary wall. While performing joint trench excavation work, the Contractor found the existing waterproofing to be spalling and peeling off from the primary wall. See attached sketch for locations referred to above.

Trend 62: Contract plans did not call for waterproofing the Macy's Men's property wall. However, when the Contractor dug for the joint trench, it was found that the existing waterproofing has deteriorated and needed to be replaced. See attached photo.

Trend 73: The Contract Bid Item allowance for providing utility services for flower stands (UD-14) was exhausted during relocation of the first 2 flower stands. The costs contained herein are related to the relocation of the third and final flower stand.

COST SUMMARY TABLE:

Trend Number:	Description of Additional Work Performed:	Contractor's Cost Proposal	Forecasted NTE Cost:	Trended Amount
38	JCDecaux kiosk removal	\$29,272.79	\$29,272.79	\$29,267.83
39	MUNI Benches	\$4,549.50	\$4,857.78	\$5,250.00
54	FIDM/C&B waterproofing	\$8,150.61	\$8,150.61	\$8,150.61
62	Macy's waterproofing	\$24,774.06	\$24,774.06	\$24,774.06
73	Additional flower stand work	\$23,557.33	\$18,840.40	\$15,000.00
TOTAL		\$90,324.29	\$85,895.64	\$82,442.50

COST ANALYSIS:

Each of the FARs/invoices submitted by the Contractor was thoroughly reviewed by the SFMTA Resident Engineer. After this comprehensive review it was determined that the final value of these items will not exceed the \$85,895.64 total shown in the Cost Summary Table. Note that these final negotiations have not yet taken place therefore the 'Forecast NTE Cost' should not be considered a final agreed cost but rather a ceiling for future negotiations.

Approval of the NTE cost contained herein will allow the Resident Engineer to conduct final negotiations with the Contractor which in turn will facilitate the compilation and execution of a Contract Modification.

SCHEDULE ANALYSIS:

This work does not impact the Substantial Completion Date. There is no time adjustment associated with this Contract Modification.

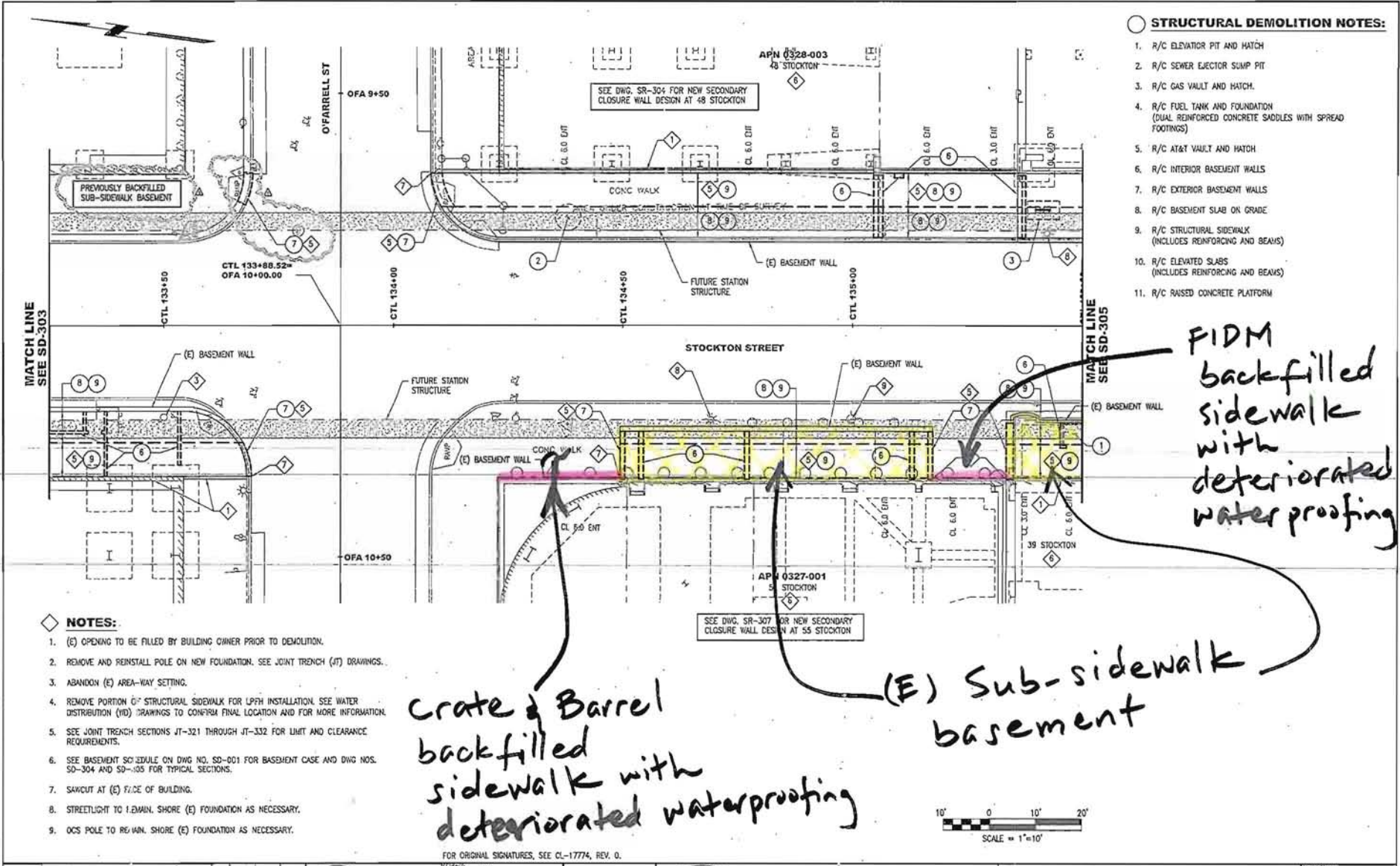
SUMMARY TABLE FOR TRENDS 38/39/54/62/73

SFMTA Central Subway Contract Number 1251 - Union Square/Market Street Station Utilities Relocation

Item #	Index #	FA #	Description	Synergy Requested Amount	SFMTA Current Approved Amount	Forecasted Final Amount	Outstanding Cost Differences
	1.1		JC Decaux Check	\$29,272.79	\$29,272.79	\$29,272.79	
						\$0.00	
Trend No. 38 Subtotal				\$29,272.79	\$29,272.79	\$29,272.79	
	2.1		Bench Fabrication	\$3,482.79	\$3,885.48	\$3,885.48	
	2.2	3275	Install benches	\$1,066.71	\$972.30	\$972.30	
						\$0.00	
Trend No. 39 Subtotal				\$4,549.50	\$4,857.78	\$4,857.78	
	3.1		Alliance Roofing Invoice	\$8,150.61	\$8,150.61	\$8,150.61	
						\$0.00	
Trend No. 54 Subtotal				\$8,150.61	\$8,150.61	\$8,150.61	
	4.1		COR 20R	\$24,774.06	\$24,774.06	\$24,774.06	
						\$0.00	
Trend No. 62 Subtotal				\$24,774.06	\$24,774.06	\$24,774.06	
	5.1	2001	Engineering and surveying work to locate power, phone and water for 3 flower stands	\$5,296.02	\$4,667.34	\$4,667.34	
	5.11	3442	AI's Flower Stand. Look for existing electrical line afor new stand relocation	\$3,935.16	\$2,706.28	\$2,706.28	
	5.4	3450	Pothole for possible sleeve on Geary W for AI's Flower Stand	\$1,331.36	\$1,235.37	\$1,235.37	
	5.5	3456	Pot hole for utilities for flower stand relocation on Stockton.	\$3,935.16	\$2,191.04	\$2,191.04	
	5.7	3477	Relocated flower stand to new location on Geary.	\$2,434.12	\$1,489.47	\$1,489.47	
	5.8	3478	New utility installation for relocated flower stand.	\$2,066.87	\$1,930.04	\$1,930.04	
	5.9	3478b	Relocation of flower stand. Installation of water line & electrical.	\$1,827.73	\$1,827.73	\$1,827.73	
	5.10	3479	New utility installation for relocated flower stand.	\$2,750.91	\$2,793.13	\$2,793.13	
Trend No. 73 Subtotal				\$23,577.33	\$18,840.40	\$18,840.40	

	Synergy Request Amount	SFMTA Current Approved Amount	Forecasted Final Amount	Trended Amount
<i>Trend Numer 38 Subtotal</i>	\$29,272.79	\$29,272.79	\$29,272.79	\$29,267.83
<i>Trend Numer 39 Subtotal</i>	\$4,549.50	\$4,857.78	\$4,857.78	\$5,250.00
<i>Trend Numer 54 Subtotal</i>	\$8,150.61	\$8,150.61	\$8,150.61	\$8,150.61
<i>Trend Numer 62 Subtotal</i>	\$24,774.06	\$24,774.06	\$24,774.06	\$24,774.06
<i>Trend Numer 73 Subtotal</i>	\$23,577.33	\$18,840.40	\$18,840.40	\$15,000.00
TOTAL CONTRACT MODIFCATION VALUE	\$90,324.29	\$85,895.64	\$85,895.64	\$82,442.50

\\s:\gen03\munis\gis\gov\ym544\1\Final\Design\Drawing--821\2-Civil\Structural Demolition\Sheet Files c:\02\105442230304601.dwg armetias Fri Aug 27 2010 - 3:47 pm SD-304



- STRUCTURAL DEMOLITION NOTES:**
1. R/C ELEVATOR PIT AND HATCH
 2. R/C SEWER EJECTOR SUMP PIT
 3. R/C GAS VAULT AND HATCH
 4. R/C FUEL TANK AND FOUNDATION (DUAL REINFORCED CONCRETE SADDLES WITH SPREAD FOOTINGS)
 5. R/C AT&T VAULT AND HATCH
 6. R/C INTERIOR BASEMENT WALLS
 7. R/C EXTERIOR BASEMENT WALLS
 8. R/C BASEMENT SLAB ON GRADE
 9. R/C STRUCTURAL SIDEWALK (INCLUDES REINFORCING AND BEAMS)
 10. R/C ELEVATED SLABS (INCLUDES REINFORCING AND BEAMS)
 11. R/C RAISED CONCRETE PLATFORM

- NOTES:**
1. (E) OPENING TO BE FILLED BY BUILDING OWNER PRIOR TO DEMOLITION.
 2. REMOVE AND REINSTALL POLE ON NEW FOUNDATION. SEE JOINT TRENCH (JT) DRAWINGS.
 3. ABANDON (E) AREA-WAY SETTING.
 4. REMOVE PORTION OF STRUCTURAL SIDEWALK FOR LPFH INSTALLATION. SEE WATER DISTRIBUTION (WD) DRAWINGS TO CONFIRM FINAL LOCATION AND FOR MORE INFORMATION.
 5. SEE JOINT TRENCH SECTIONS JT-321 THROUGH JT-332 FOR LIMIT AND CLEARANCE REQUIREMENTS.
 6. SEE BASEMENT SCHEDULE ON DWG NO. SD-001 FOR BASEMENT CASE AND DWG NOS. SD-304 AND SD-105 FOR TYPICAL SECTIONS.
 7. SAWCUT AT (E) FACE OF BUILDING.
 8. STREETLIGHT TO 1.5MIN. SHORE (E) FOUNDATION AS NECESSARY.
 9. OCS POLE TO RE WLN. SHORE (E) FOUNDATION AS NECESSARY.

Crate & Barrel backfilled sidewalk with deteriorated waterproofing

(E) Sub-sidewalk basement

FIDM backfilled sidewalk with deteriorated waterproofing

DATE	DESCRIPTION	BY	CHKD	APPVED
08/22/2010	120 STOCKTON BASEMENT INFO	MD		
07/09/2010	ISSUED FOR RFP	D		

PB TELAMON

TELAMON ENGINEERING CONSULTANTS INC.

DESIGNED BY: MD
 CHECKED BY: FE
 DRAWN BY: MC
 APPROVED BY: MF
 DATE: JUL 8 2010

CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED: _____
 C. CELESTINE, DIRECTOR/CEO

PROJECT NO.	1251
SCALE CONTROL NO.	CL-17774
PROJECT NO.	SD-304
SHEET NO.	52
LENGTH	1



SFMTA Contract No. 1252

Contractor:

Barnard Impregilo Healy JV (BIH)

EVALUATION OF MERIT

COR 008

Recommendation: Accept justification of Merit for COR 008 for a time extension of up to seven (7) calendar days. COR001 AWSS Conflict with Low Pressure Water Line, COR002 Additional AWSS Restraining at 4th and Harrison, and COR003 ATT Vault conflict with 42" RCP Sewer Main all had impacts to critical path activities. The contract documents do not accurately depict these changes. Additional time was required to the critical path to accomplish the contract work and additional work.

Facts: Merit was established for COR001, 002, and 003 in CMB on October 10, 2012 (see Attachment A)

- **COR001 AWSS Conflict with Low Pressure Water Line**
- **COR002 Additional AWSS Restraining at 4th and Harrison**
- **COR003 ATT Vault conflict with 42" RCP Sewer Main**

Rationale for COR: BIH's subcontractor, Synergy Project Management's (SPM) original means and methods relied on completion of Installation of the Force Main Sewer Crossing (East) (TUN-03-2080), Installation of Sewer Tie In (East) (TUN-03-2050), and a portion of AWSS Modifications (North-East) (TUN-03-2060) before switching traffic over to the West side of 4th Street. SPM planned to work one side of the street at a time to let traffic through. Unforeseen changes (COR001, 002, and 003) to the utilities on the east side of 4th Street kept work from progressing to the west side of 4th Street. Once traffic was moved to the west side of 4th Street the critical path activities could proceed.


Justification: BIH partially mitigated the time impact associated with COR's 001, 002, and 003 by re-sequencing and performing other critical path activities while working with the SFMTA to address differing conditions and additional work. BIH claims 8.26 calendar days of additional work is on the critical path. BIH's Time Impact Analysis (TIA) used their version of an "as built" critical path schedule and counted up their delay activities on the critical path. The SFMTA reviewed the submitted TIA with the inspector's daily reports and submitted force account tags. The SFMTA does not agree with BIH's replication and calculations. Our own analysis compared the baseline sequence to the actual sequence with delays and found that seven (7) calendar days were added to the contract substantial completion date (see Attachment B).

By:


Sarah Wilson

Resident Engineer

10/24/12
Date


Configuration Management Board

Approval

10/24/12
Date

SFMTA Contract No. 1252

Contractor: Barnard Impregilo Healy JV (BIH)

EVALUATION OF MERIT

COR 001

Recommendation: Accept justification of Merit for COR 001. The contract documents do not accurately depict the correct location of a water line which impacted the planned means and method of performing contract work associated with AWSS removal and relocation. Additional effort (labor and time) was required to accomplish the contract work.

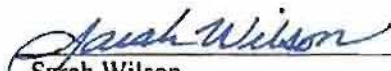
Facts: An existing low pressure 12" Water line which runs west to east at the intersection of Fourth St. and Harrison St. is shown on contract drawing UT-501, Rev. 0 to be approximately 3' north of an existing 12" AWSS "T" fitting. During the excavation required for the contract AWSS removal and relocation work BIH's subcontractor, Synergy Project Management (Synergy or SPM), discovered that the existing water line was actually further south than was indicated in the drawings which positioned it almost directly above the AWSS "T" fitting or point of connection. Furthermore, because the water line was farther south than was expected it was placed in close proximity to an existing electrical duct bank.

Rationale for COR: SPM's original means and methods relied on excavating a tunnel from both sides of the existing duct bank to access the AWSS "T." Due to the close proximity of the existing water line to the duct bank, excavation could only be performed from one side thus increasing the amount of time spent on excavating around the AWSS fittings. Also because the water line was located closely above the existing AWSS point of connection additional time was spent removing the existing AWSS fittings and installing the new AWSS fittings required for the work.

Justification: BIH justification for the COR is that the actual location of the water line impacted the original means and methods making it more difficult to perform the AWSS contract work; "Synergy's crew spent additional time excavating material surrounding the AWSS "T" fitting because their originally assumed means and methods couldn't be implemented. Synergy's crew also spent additional time removing existing AWSS fittings and installing and restraining new AWSS fittings."

Note: this COR also relates to a time impact analysis which has been received under cover of COR 008.

By:


Sarah Wilson
Resident Engineer

10/10/12
Date


Configuration Management Board
Approval

10/10/12
Date

SFMTA Contract No. 1252

Contractor: Barnard Impregilo Healy JV (BIH)

EVALUATION of MERIT

COR 002

Recommendation: Accept justification of merit for COR 002. SFMTA directed the additional work to restrain the AWSS line, not contained in contract documents.

Facts: During excavation for contract work, AWSS relocation, at the intersection of Fourth and Harrison Street, BIH's subcontractor Synergy Project Management (SPM) uncovered a section of pipe north of the AWSS "T" fitting which was unrestrained and badly rusted, not conforming to current code.

Rationale for COR: SFMTA issued a response to RFI 56 directing the Contractor to restrain the AWSS pipe. The RFI response prepared by Michael Smith of the San Francisco Department of Public Works stated: "Added 04/18/12: Following confirmation after SFDPW field inspection of exposed AWSS line, 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." Additional details of the connections were then provided by SFMTA for Contractor to execute the work.

Justification: The following activities were required to be performed in order to install the new restraining materials: roadway surface demolition, soil excavation, utility demolition, installation of new AWSS piping, hydrostatic testing, backfill and compaction, restoration and traffic control devices.

Note: this COR also relates to a time impact analysis which has been received under cover of COR 008.

By:  _____ 10/10/12
Sarah Wilson Date
Resident Engineer

 _____ 10/10/12
Configuration Management Board Date
Approval

SFMTA Contract No. 1252

Contractor: Barnard Impregilo Healy JV

EVALUATION of MERIT

COR 003

Recommendation: Accept justification for merit of COR 003. The existing AT&T vault and duct bank were not correctly shown on the contract drawings, and interfered with contract installation work related to the sewer main. Additional effort was needed to accomplish the contract work.

Facts: During excavation at the intersection of Fourth St. and Harrison St., BIH's subcontractor Synergy Project Management (SPM) discovered that an existing AT&T vault and duct bank conflicted with the installation of the 35 lineal feet of 42" RCP required as shown on contract drawing SW-5, Rev. 0.

Rationale for COR: AT&T inspector David Gibbons field verified the conflict and approved the removal of a portion of the vault and duct bank to ensure the completion of the sewer main. This approval was documented in the responses to RFIs 49, 49.1, and 49.2.

Justification: The following additional activities were required to be performed in order to complete the installation of the sewer main: chip away the duct bank concrete encasement, chip away a portion of the vault's NE corner, concrete disposal, new construction of the vault's NE wall and new construction of the concrete encasement surrounding the duct bank.

Note: this COR also relates to a time impact analysis which has been received under cover of COR 008.

By:  10/10/12
Sarah Wilson Date
Resident Engineer

 10/10/12
Configuration Management Board Date
Approval

Activity ID	Activity Name	Org Dur	Start	Finish	Total Float	2012												2013												2014												2015															
						M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O	N	D	J	F	M	A	M	J	Jul	A	S	O								
CSP-1252- Construction Tunnels No Delay						945	30-Mar-12 A	02-Apr-15	-11																																																
4th & Bryant Street TBM Launch Box Construction						321	30-Mar-12 A	11-Apr-13	-11																																																
Launch Box Utilities						41	30-Mar-12 A	04-Jun-12	-9																																																
TUN-03-2020	Launch Box - Remove Utilities (East)	10	30-Mar-12 A	13-Apr-12	-9	■	Launch Box - Remove Utilities (East)																																																		
TUN-03-2080	Launch Box - Install Force Main Sewer Crossing (East)	15	06-Apr-12	26-Apr-12	-9	■	Launch Box - Install Force Main Sewer Crossing (East)																																																		
TUN-03-2050	Launch Box - Install Sewer Tie In (East)	15	13-Apr-12	03-May-12	-9	■	Launch Box - Install Sewer Tie In (East)																																																		
TUN-03-2060	Launch Box - AWSS Modifications (North-East)	15	04-May-12	24-May-12	-9	■	Launch Box - AWSS Modifications (North-East)																																																		
Utilities West						16	11-May-12	04-Jun-12	-9																																																
TUN-03-2010	Launch Box - Setup Traffic Control for Launch Box (West)	1	11-May-12	11-May-12	-9		Launch Box - Setup Traffic Control for Launch Box (West)																																																		
TUN-03-2040	Launch Box - Remove Utilities (West)	10	14-May-12	25-May-12	-9	■	Launch Box - Remove Utilities (West)																																																		
TUN-03-2070	Launch Box - AWSS Modifications (South-West)	10	21-May-12	04-Jun-12	-9	■	Launch Box - AWSS Modifications (South-West)																																																		
Construct Launch Box						276	26-May-12	11-Apr-13	-11																																																
Tunneling/ Cross Passages/ Portal Structure						624	12-Apr-13	02-Apr-15	-11																																																
CP-1252 Contract Milestones						0	02-Apr-15	02-Apr-15	-11																																																
TUN-01-1060	Substantial Completion	0		02-Apr-15*	-11	◆	Substantial Completion																																																		
CSP-1252-TIA001 Construction Tunnels TIA001/COR008						956	30-Mar-12 A	09-Apr-15	-17																																																
4th & Bryant Street TBM Launch Box Construction						332	30-Mar-12 A	18-Apr-13	-18																																																
Launch Box Utilities						49	30-Mar-12 A	08-Jun-12	-13																																																
TUN-03-2020	Launch Box - Remove Utilities (East)	10	30-Mar-12 A	13-Apr-12	-13	■	Launch Box - Remove Utilities (East)																																																		
TUN-03-2060 AWSS MODIFICATIONS (NORTH-EAST)						33	02-Apr-12	16-May-12	-13																																																
TUN-03-2060A	Saw cut and Start AWSS Excavation	3	02-Apr-12	04-Apr-12	-13		Saw cut and Start AWSS Excavation																																																		
COR-01-010	COR 1 - Slow Excavation due to 12" Water Line	1	09-Apr-12	09-Apr-12	-13		COR 1 - Slow Excavation due to 12" Water Line																																																		
TUN-03-2060B	Continue AWSS Excavation	2	10-Apr-12	11-Apr-12	-13		Continue AWSS Excavation																																																		
COR-02-040	COR 2 - Reset Traffic and SFMTA checks Tee (RFI 56)	1	13-Apr-12	13-Apr-12	-13		COR 2 - Reset Traffic and SFMTA checks Tee (RFI 56)																																																		
TUN-03-2060C	Install Part of AWSS Pipe and Fitting	1	16-Apr-12	16-Apr-12	-13		Install Part of AWSS Pipe and Fitting																																																		
COR-01-020	COR 1 - Additional Time to Install AWSS Pipe/Fittings due to 12" Water Line	1	17-Apr-12	17-Apr-12	-13		COR 1 - Additional Time to Install AWSS Pipe/Fittings due to 12" Water Line																																																		
COR-02-100	COR 2 - Added Excavation for AWSS Section	2	18-Apr-12	19-Apr-12	-13		COR 2 - Added Excavation for AWSS Section																																																		
TUN-03-2060D	Excavate and Remove 16" Gas Line	1	20-Apr-12	20-Apr-12	-13		Excavate and Remove 16" Gas Line																																																		
TUN-03-2060E	Plate Road (can work two areas at once)	0	23-Apr-12		-13	◆	Plate Road (can work two areas at once)																																																		
TUN-03-2060F	Excavate and prep for new AWSS	4	23-Apr-12	26-Apr-12	-13		Excavate and prep for new AWSS																																																		
COR-02-110	COR 02 - Remove Concrete from Muni Conduits, Excavate to AWSS & Added Installation	3	27-Apr-12	01-May-12	-13		COR 02 - Remove Concrete from Muni Conduits, Excavate to AWSS & Added Installation																																																		
TUN-03-2060G	Install AWSS, Line Test, Pour Thrust Block, and Back Fill	4	02-May-12	07-May-12	-13		Install AWSS, Line Test, Pour Thrust Block, and Back Fill																																																		
TUN-03-2060H	Pressure Test, Hydrostatic Test, Back Fill	2	10-May-12	11-May-12	-13		Pressure Test, Hydrostatic Test, Back Fill																																																		
COR-02-190	COR 02- Additional Testing and Back Fill	1	14-May-12	14-May-12	-13		COR 02- Additional Testing and Back Fill																																																		
TUN-03-2060I	Pave	1	16-May-12	16-May-12	-13		Pave																																																		
TUN-03-2050 INSTALL SEWER TIE IN (EAST)						25	05-Apr-12	09-May-12	-13																																																
TUN-03-2050A	Initial Sawcut and Excavation	1	05-Apr-12	05-Apr-12	-13		Initial Sawcut and Excavation																																																		
COR-03-020	COR 3 - Chip (E) ATT Vault & Duct Banks Due To 42" RCP Sewer Conflict	1	06-Apr-12	06-Apr-12	-13		COR 3 - Chip (E) ATT Vault & Duct Banks Due To 42" RCP Sewer Conflict																																																		
TUN-03-2050B	Excavation for 42" RCP Sewer	1	12-Apr-12	12-Apr-12	-13		Excavation for 42" RCP Sewer																																																		
COR-03-050	COR 3 - Move Traffic, Remove Gas Line, Chip Vault	2	23-Apr-12	24-Apr-12	-13		COR 3 - Move Traffic, Remove Gas Line, Chip Vault																																																		
TUN-03-2050C	Install 42" RCP Sewer Main	8	25-Apr-12	04-May-12	-13	■	Install 42" RCP Sewer Main																																																		
TUN-03-2050D	Continue Install 42" RCP Sewer Main	2	08-May-12	09-May-12	-13		Continue Install 42" RCP Sewer Main																																																		
TUN-03-2080 INSTALL FORCE MAIN SEWER CROSSING (EAST)						1	15-May-12	15-May-12	-13																																																
TUN-03-2080A	Shoring and Excavation	1	15-May-12	15-May-12	-13		Shoring and Excavation																																																		
Utilities West						16	17-May-12	08-Jun-12	-13																																																
TUN-03-2010	Launch Box - Setup Traffic Control for Launch Box (West)	1	17-May-12	17-May-12	-13		Launch Box - Setup Traffic Control for Launch Box (West)																																																		
TUN-03-2040	Launch Box - Remove Utilities (West)	10	18-May-12	01-Jun-12	-13	■	Launch Box - Remove Utilities (West)																																																		
TUN-03-2070	Launch Box - AWSS Modifications (South-West)	10	25-May-12	08-Jun-12	-13	■	Launch Box - AWSS Modifications (South-West)																																																		
Construct Launch Box						277	02-Jun-12	18-Apr-13	-18																																																
Tunneling/ Cross Passages/ Portal Structure						624	19-Apr-13	09-Apr-15	-18																																																
CP-1252 Contract Milestones						0	09-Apr-15	09-Apr-15	-18																																																
TUN-01-1060	Substantial Completion	0		09-Apr-15*	-18	◆	Substantial Completion																																																		

Difference between April 2, 2015 and April 9, 2015 is 7 calendar days.

