


Memorandum

CS Memorandum No. 1371

To: Distribution
From: Beverly Ward, CMB/Risk Management Assistant 
Date: March 5, 2013
Reference: Project No. M544.1, Contract No. CS-149
Task No. 1-8.02, Change Control
Subject: Configuration Management Board Meeting No. 114

Attached please find minutes for Configuration Management Board Meeting No. 114 held on February 20, 2013.

Attachments: CMB Meeting No. 114 Rev. 0 Minutes with attachments

Cc: David Kuehn, STV (w/attachments) david.kuehn@stvinc.com
Shahnam Farhangi, SFMTA (w/attachments)
Albert Hoe, SFMTA (w/attachments)
Arthur Wong, SFMTA (w/attachments)
Joon Park, SFMTA (w/attachments)
Roger Nguyen, SFMTA (w/attachments)
Sarah Wilson, CSP (w/attachments)
Jane Wang, SFMTA (w/attachments)
Aileen Read, CSDG (w/attachments)
CS File No. M544.1.5.0890

Distribution:

Brad Lebovitz, STV bradley.lebovitz@stvinc.com
Luis Zurinaga, SFCTA luis.zurinaga@sfcta.org
John Funghi, SFMTA
Richard Redmond, CSP
Ross Edwards, CSP
Eric Stassevitch, CSP
Mark Latch, CSP
Mark Benson, CSP
Beverly Ward, CSP

CMB Meeting Minutes #114

DATE: February 21, 2013

MEETING DATE: **February 20, 2013**

LOCATION: 821 Howard St, Main Conference Room

TIME: 3:00 PM

ATTENDEES: J Funghi (JF), R. Edwards (RE), M. Benson (MB), M. Latch (ML), R. Redmond (RR), E. Stassevitch (ES), B. Ward (BW), L. Zurinaga (LZ), B. Lebovitz (BL)

COPIES TO: Attendees: S. Farhangi (SF), J. Park (JP), A. Hoe (AH), R. Nguyen (RN), A. Wong (AW), J. Wang (JW), S. Wilson (SW), A. Read (AR), 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 # 114 – Rev. No. 0

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

ITEM #	DISCUSSION	ACTION BY DUE DATE
4-01/30/13	1252 – R. Redmond presented for information an issue escalation write up as discussed between the Contractor (BIH) and SFMTA regarding the unresolved issue of payment of indirect costs for Time related changes. Using COR 008 TIA of 7days related to (COR 001, 002 and 003) as an approach for setting precedence where time is involved the proposed Joint Resolution: SFMTA agrees to review and payment of “Time Related/variable Indirect Cost Only and OH cost as outline in the General Provision – Article 6.04B and 6.04C that are time related cost. BIH will revise their submittal of indirect costs to align with recent discussions at the RE level regarding acceptable categories of costs. The concept as laid out (see attached) will go forward provided the indirects can be substantiated. A review of the Contractor’s revised categories will be reviewed by the SFMTA Contract Administrator prior to approval given to the Contractor. In addition the SFMTA’s Contract Administrator suggested the language in the “Joint Resolution” section be revised to be more consistent “SFMTA agrees; SFMTA disagrees...” This item will be brought back to the CMB at a later date. <i>02/13: Informational material was submitted outlining the categories considered for agreement for the Contractor’s indirect costs related to impacts/delays. The RE has agreed to the categories but agreement to components of those categories is still pending. The CMB directed the RE to meet with the Contractor to obtain a final agreement on indirects for compensable delays and bring back to the CMB the final unit cost information of the change following the guidelines presented. Status: 02/20 This item was not discussed at this week’s meeting.</i>	RR 03/06/13

ITEM #	DISCUSSION	ACTION BY DUE DATE
1.	<p>A review of the outstanding action items requiring follow-up action was discussed. As noted on the Action Item list, one action was completed and is now Closed. The remaining Open action items “due by date” has been extended as noted in the “due date” column. Action items updates were reported as follows:</p> <p><u>1252 - PCC 02 UMS Headwalls</u> – Changing the reinforcement layout of the interior piles. PCC was withdrawn; CSL tube rebar cage will be removed by the stations contractor.</p> <p><u>1252 – COR 033 – Retrieval Shaft – 20” Water Line</u> – An update to the current condition will be given at next CMB meeting.</p> <p><u>1300 – WP 1254 – SF Planning Request</u> – Planning department requested 5 street trees along Stockton Street. The ECP will be brought back to the CMB along with an estimate. The CMB recommended a response be drafted to Service Planning of what the cost will be from a design standpoint and that they identify a funding source.</p> <p><u>1252 – Validation 1300 docs include as built information on asbestos pipe</u> – As built information has yet to be included in 1300 Contract documents, 1252 as built drawings will be included in Addendum #5.</p> <p><u>1252- Micropiles – As built condition explanation</u> – As built material was provided as requested. M. Latch reported the error in the 21 pin piles being installed at the 60ft height was a design error. The CMB requested the findings be communicated to the Designer as an E&O they be put on notice that a corrective action needs to take place with the alignment. In addition (ML) will incorporate the updated information into the as built.</p>	<p>MB 02/27/13</p> <p>RE 03/06/13</p> <p>RE 03/20/13</p> <p>ML 03/06/13</p>
2-	<p>The Program Trend/Change Control Log version 02/20/13 was viewed at this week’s meeting. Discussions took place regarding trends and potential changes requested by the 1252 Contractor as follows:</p> <p><u>Relocation of TBM Retrieval Shaft</u> – Cost analysis has been completed, information expected to be received on 03/04/13. Potential cost is outside of the project scope, funding will be through Capital Project for Transportation (CPT690), potentially costing \$6M for this change.</p> <p><u>Segment Measuring Frequency</u> – Contractor proposes to assemble ring at 500th ring cast instead of what is the required in the specs of a minimum gauging of every 100th segment cast. The spec requirement will remain until further evaluation of the process is done. Potential cost exposure is \$(1.3M).</p> <p><u>F21 and Old Navy Instrumentation Proposal</u> – Property owner would like a modification to the testing instrumentation, requesting fewer sensors be attached to the buildings. This is a no cost change.</p> <p><u>COR 72 – Ellis Shaft Jet Grout Obstruction</u> – Contractor’s subconsultant reported while drilling column R3 of Ellis Shaft hitting an obstructions 52ft below existing grade resulting in the jet grout monitor breaking off. At this time obstruction is unknown. Potential cost exposure is \$54K.</p> <p><u>COR 73 – MOS – Unknown 16" Pipe removal @ northwest headwall</u> – Contractor encountered a 16" pipe not shown on Contract plans while installing the 12" waterline at the north headwall of Moscone. Potential cost exposure is \$2K.</p>	
3-	<p>1251 – Approval was given for processing the final CMod and interim payment. Unilateral COR’s will be routed to the Contract Administrator today, 02/20/13 for signature. The</p>	

ITEM #	DISCUSSION	ACTION BY DUE DATE
	possible.	
4 -	Agenda item – CMod Task Force was not addressed at the meeting, however a final report will be written and distributed to the appropriate Program staff.	

ACTION ITEMS

ITEM #	MTG DATE	MTG ACTION DATE	DESCRIPTION	BIC	DUE DATE	STATUS
5	08/08/12	08/29/12	1252 – PCC 1252-02 UMS Headwalls	MB	10/10/12	Closed
1	11/07/12	11/07/12	1300 – WP 1254 – SF Planning Request	RE	03/06/13	Open
3	11/14/12	11/14/12	1252 – COR 033 – Retrieval Shaft – 20" Water Line	SW	02/27/13	Open
2	12/12/12	12/12/12	1252 – Validation 1300 docs include as built information regarding Asbestos Pipes	RE	03/20/13	Open
5	01/30/13	01/30/13	1252 – Micropiles – As built condition explanation	ML	03/06/13	Open
4	01/30/13	02/20/13	1252 – COR 008 - Final unit cost for indirects	RR	03/06/13	Open

Meeting adjourned at 5:25pm

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: BW ES [initials of preparer & reviewer] Date: 28 Feb 13 [Date review completed]

Meeting Agenda

Project No. M544.1, Contract No. CS-149
Program/Construction Management
Configuration Management Board (CMB) Meeting No. 114
February 20, 2013
3:00pm – 5:00pm
 Central Subway Project Office
 821 Howard St. 2nd Floor
 Main Conference Room

Attendees:

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

1. **1252** – Nothing to Report
2. **1300** – Nothing to Report
3. **Trend/Change Log** – 02/20/13
4. **Other Business** – CMod Task Force
 – Action Items – *Update*

Meeting Attendance Sheet

Project No. M544.1, Contract No. 149
Program/Construction Management
Configuration Management Board Meeting No. 114
February 20, 2013
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>MB</i>
Edwards, Ross	CSP	(415) 701-5296	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>JF</i>
Haley, John	SFMTA		John.Haley@sfmta.com	
Hoe, Albert	SFMTA	(415) 701-4289	Albert.Hoe@sfmta.com	
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>WDL</i>
Lebovitz, Brad	STV/PMOC	(510) 464-8052	Bradley.lebovitz@stvinc.com	<i>BL</i>
Lee, Matt	SFCTA	(415) 522-4813	matt@sfcta.org	
Nguyen, Roger	SFMTA	(415) 701-4312	Roger.Nguyen@sfmta.com	

central subway

NAME	AFFILIATION	PHONE	E-MAIL (for minutes)	INITIALS
Park, Joon	SFMTA	(415) 701-4742	Joon.Park@sfmta.com	
Redmond, Richard	CSP	(415) 701-4288	Richard.Redmond@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
Wilson, Sarah	CSP	(415) 243-0950	Sarah.Wilson@sfmta.com	
Wong, Arthur	SFMTA	(415) 701-4305	Arthur.Wong@sfmta.com	
Zurinaga, Luis	SFCTA	(415) 716-6956	Luis.zurinaga@sfcta.org	LZ

ACTION ITEMS

ITEM #	MTG DATE	MTG ACTION DATE	DESCRIPTION	BIC	DUE DATE	STATUS
5	08/08/12	08/29/12	1252 – PCC 1252-02 UMS Headwalls	MB	10/10/12	Open
1	11/07/12	11/07/12	1300 – WP 1254 – SF Planning Request	RE	11/28/12	Open
3	11/14/12	11/14/12	1252 – COR 033 – Retrieval Shaft – 20” Water Line	SW	11/21/12	Open
2	12/12/12	12/12/12	1252 – Validation 1300 docs include as built information regarding Asbestos Pipes	RE	01/09/13	Open
			[REDACTED]			
			1251 – Form B Comparison – Additional shared percentages			
			[REDACTED]			
			1251 – Form B – Additional methodology			
5	01/30/13	01/30/13	1252 – Micropiles – As built condition explanation	ML/MB	01/31/13	Open

central subway

ITEM #	DISCUSSION	ACTION BY DUE DATE
5-	1252 – J. Funghi presented for discussion CN 1251 As built Structural Micropile Detail at 2 Stockton Street, which demonstrates the length of all the pin piles installed at 2 Stockton St. as 60ft long, rather than what is indicated in the CN1251 submittal. The issue raised concerns of the possibility that the micropiles may encroach on the tunnel. The CMB questioned who approved the 60ft length, who surveyed the offset and where is that data, also requesting a follow up action report of: 1) theoretical as built top of dirt elevation and 2) the actual data for top of rebar, to be provided Thursday morning 01/31.	ML/MB 01/31/13
6-	The Project Trend/Change Control Log version 01/30/13 was not viewed at this week's meeting. The log is updated to include most recent changes and trends for 1252. The log is attached for distribution with these meeting minutes.	

ACTION ITEMS

2 Stockton Micropile Interference with Tunnel

In response to SPM's Submittal 100.2, *Pile Cap Layout Elevations*, Design Lead Kenneth Ho (Structus), set top of Dwydag at 18.83' and top of pile cap/wall footing at 19'.

From as-built survey performed for SPM's CNCR #7, top of the Dwydags is 18.84'.

From as-built survey performed for SPM CNCR #8, top of the footing is at 19.04' ±

Length of installed Dwydags for all but one Micropile is 62.5' (69T is 60'). Typical length of installed Dwydags at 2 Stockton is 55' bonded length plus 5' unbounded length (sleeved in PVC) plus a minimum of 25" projection into the minimum 2.5' pile cap/wall footing.

Cut-off on Matt's spread sheet and on the driller's Micro Pile Report is 18.84..

Worse case is 62.5' Dwydag at 18.84' elevation with end of pile at -43.66' – Matt's spread sheet shows the 9 piles and how much they project into the tunnel.

Drill Tech's approved as noted Submittal 100.4, included the following comment from the Designer, "Max pile lengths not shown. Revise to include max pile lengths."

Type 3 Wall from Schedule A requires 55' bond length – which further supports why Drill Tech would use 62.5 foot bars.

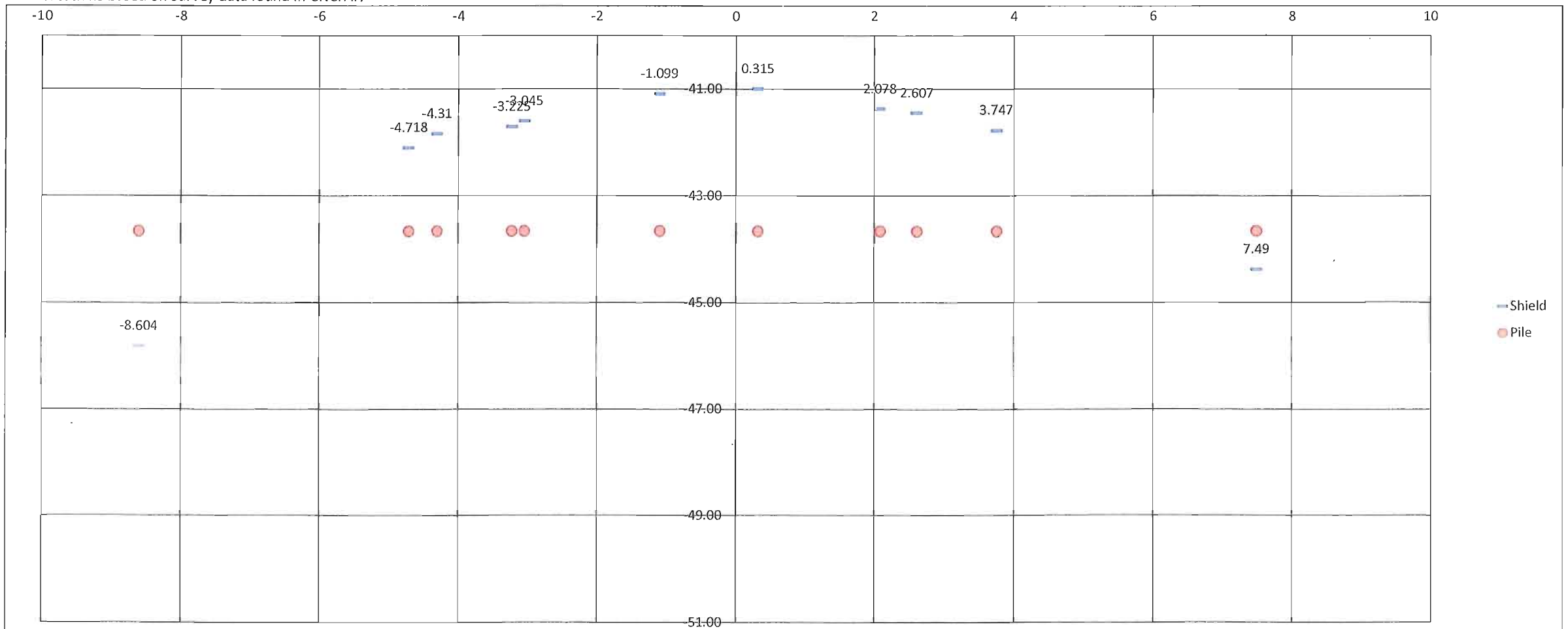
No tension piles are battered at 2 Stockton.

MDLatch – 4Feb2013

CN1251 As-built Records

Pile No.	Equiv. survey marker ID	Date of installation	Indicated as-built bond length	Indicated As-built Length of #18 bar	Top of Footing (Approx.)	Cutoff Elevation	Assumed bar stick-up above cutoff	SB Track Station at pile location	TOR Elevation at Track Station	Offset from TBM CL to theoretical pile location based on survey	Is pile offset left or right when looking up-station?	Theoretical elevation of TBM shield at offset from CL	Estimated #18 Bar Tip Elevation	Theoretical Encroachment (ft)
	Back-side of SR-304 in as-builts	CN1251 sub. # 31-63-33, doc. 12755 Micropile Report 8/9/9	CN1251 sub. # 31-63-33, doc. 12755 Micropile Report 8/9/10	CN1251 sub. # 31-63-33, doc. 12755 Micropile Report 8/9/11	Obtained from CNCR #8	CN1251 sub. # 31-63-33, doc. 12755 Micropile Report 8/9/11	per 1251 dwgs SR-006 15" min. (T), 25" max. for C. Revised 1-31-13 to 0 ft based on 1/30 email from Javier-cutoff=top of bar	By inspection from CADD	1252 dwgs TC-134	By inspection from CADD	By inspection from CADD (Left is negative, right is positive)	Formula provided by MF	Cutoff elevations plus stick-up minus bar length	
82-T	1481	7/7/2011	30	62.5	19.05	18.84	0.00	136+90	-57.40	-3.225	Left	-41.71	-43.66	1.95
83-C	1482	7/7/2011	30	62.5	19.05	18.84	0.00	136+88	-57.38	-8.604	Left	-45.82	-43.66	-2.16
80-T	1479	6/28-29/2011	30	62.5	19.05	18.84	0.00	136+87	-57.37	2.078	Right	-41.37	-43.66	2.29
81-C	1480	7/6/2011	30	62.5	19.05	18.84	0.00	136+85	-57.35	-3.045	Left	-41.60	-43.66	2.06
79-T	1478	6/30/2011	30	62.5	19.05	18.84	0.00	136+85	-57.35	7.49	Right	-44.38	-43.66	-0.72
78-C	1477	6/29/2011	30	62.5	19.05	18.84	0.00	136+82	-57.32	2.607	Right	-41.45	-43.66	2.21
77-T	1476	7/8/2011	30	62.5	19.05	18.84	0.00	136+77	-57.27	3.747	Right	-41.77	-43.66	1.89
76-C	1475	7/11/2011	30	62.5	19.05	18.84	0.00	136+74	-57.24	-1.099	Left	-41.09	-43.66	2.57
75-T	1474	7/5/2011	30	62.5	19.05	18.84	0.00	136+70	-57.20	0.315	Right	-41.00	-43.66	2.66
74-C	1473	7/12/2011	30	62.5	19.05	18.84	0.00	136+66	-57.16	-4.718	Left	-42.10	-43.66	1.56
73-T	1472	7/5/2011	30	62.5	19.05	18.84	0.00	136+60	-57.10	-4.31	Left	-41.84	-43.66	1.82

*Pile locations based on survey data found in CNCR #7



Synergy Project Management, Inc.
 150 Executive Park Blvd. Suite 4750
 San Francisco, CA 94134
 Phone (415) 467-3000 Fax (415) 467-3001

RUSH

SUBMITTAL CONTROL FORM
 SFMTA Central Subway Contract 1251
 Union Square / Market St. Station Utilities Relocation

To: SFMTA Central Subway
 821 Howard Street, 2nd Floor
 San Francisco, CA 94103
 Attn: Mike Acsela, Resident Engineer

Submittal Control No. 100.2

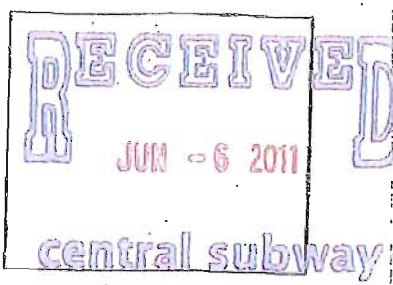
Spec Section & Subsection No. 31.63.33

Date Submitted to SFMTA: 6/06/11

Prepared By: Synergy Project Management
 Name of Contractor/Subcontractor/Supplier

Date Received by SFMTA:

Contact: Javier Romero 925-963-5031
 Name Tel. No.



Contractor's QC Manager's/Team's Certification that
 Submittal is in Compliance with Contract Requirements:

[Signature]
 Javier N. Romero/
 Manuel Arce/
 Donovan Gilliland
 Date 6-6-11

SUBMITTALS				
Item	No. Of Copies, 6 (unless noted otherwise in Spec.)	Description	SFMTA Action*	SFMTA Action By: (Signature)
1	2	Pile Cap Layout Elevations	B	
2				
3				
4				
5				

central subway

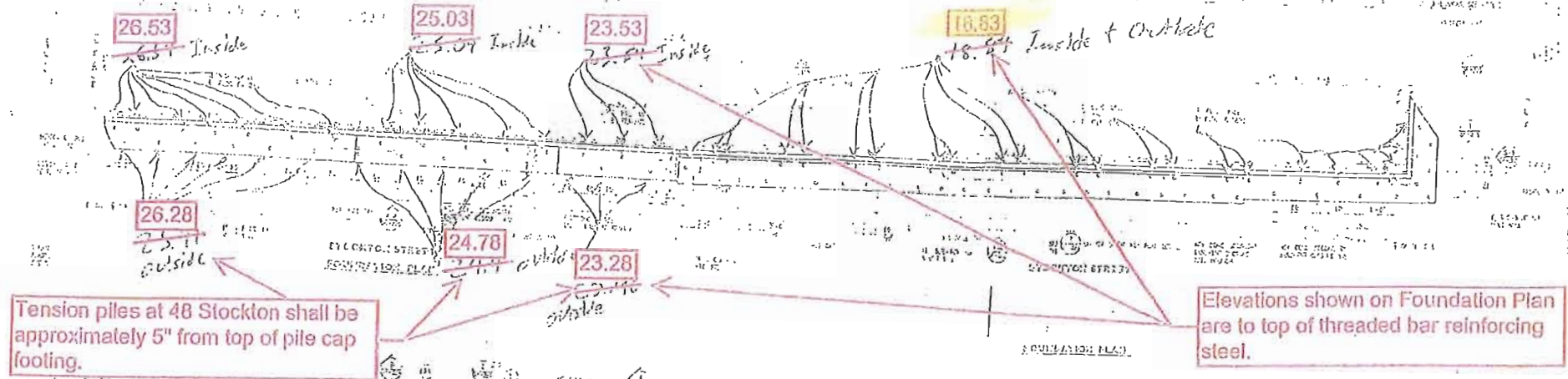
FOR REVIEW

To:	Affiliation	Name	Copies	Sent Date	Requested Return Date	Date Rcvd by Reviewer	Return Date to RE
<input checked="" type="checkbox"/>	PBT PE	Mennon Chan	1	6/3/11	6/15/11		6/17/11
<input type="checkbox"/>	DPW -- BCM	Doug Zwiring					
<input type="checkbox"/>	DPW -- BOE						
<input type="checkbox"/>	OTHER:						

Reviewer's Remarks: SEE ATTACHED FOR COMMENTS. MAKE CORRECTIONS NOTED. Date Transmitted to Contractor: _____

Lead Reviewer: KENNETH HO *[Signature]* STRUCTUS 6/15/11
 Print Name Signature Title Affiliation Date
 RE PBT PE *[Signature]* 6/17/11 Print Name Signature Date

*SFMTA Action - Legend:
 A: Approved B: Approved as Noted C: Disapproved - Resubmit D: Rejected N: No Action Required



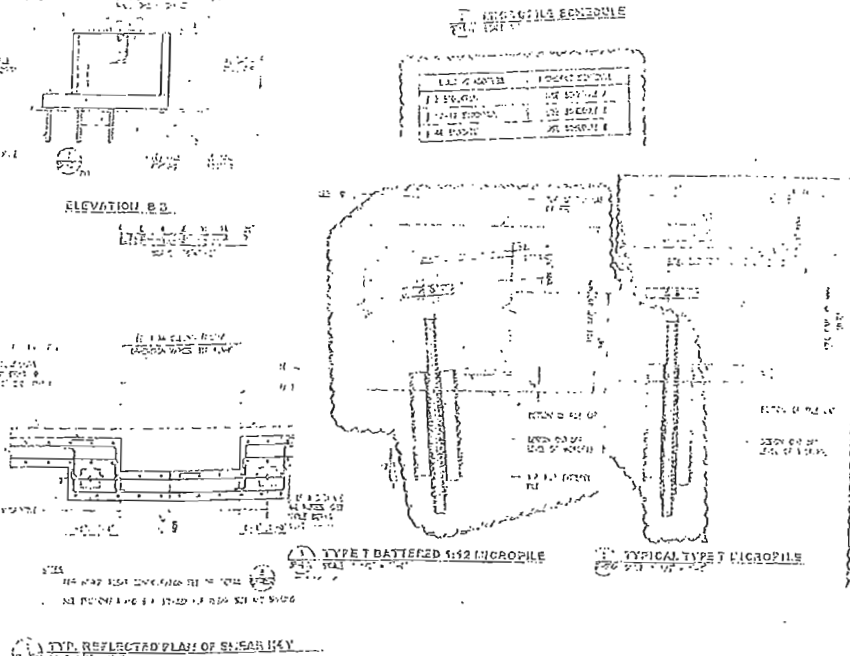
MICROPILE SCHEDULE A		MICROPILE SCHEDULE B		MICROPILE SCHEDULE C	
NO.	DESCRIPTION	NO.	DESCRIPTION	NO.	DESCRIPTION
1	...	1	...	1	...
2	...	2	...	2	...
3	...	3	...	3	...
4	...	4	...	4	...
5	...	5	...	5	...



All clouded elevations shown on Elevation A-A are to top of pile cap footing.

Contractor shall confirm in field elevations shown shall not exceed max. heights indicated on detail 3/ SR-006 for various Wall Types.

Elevations shall be confirmed and coordinated to not interfere with proposed Joint Trench.

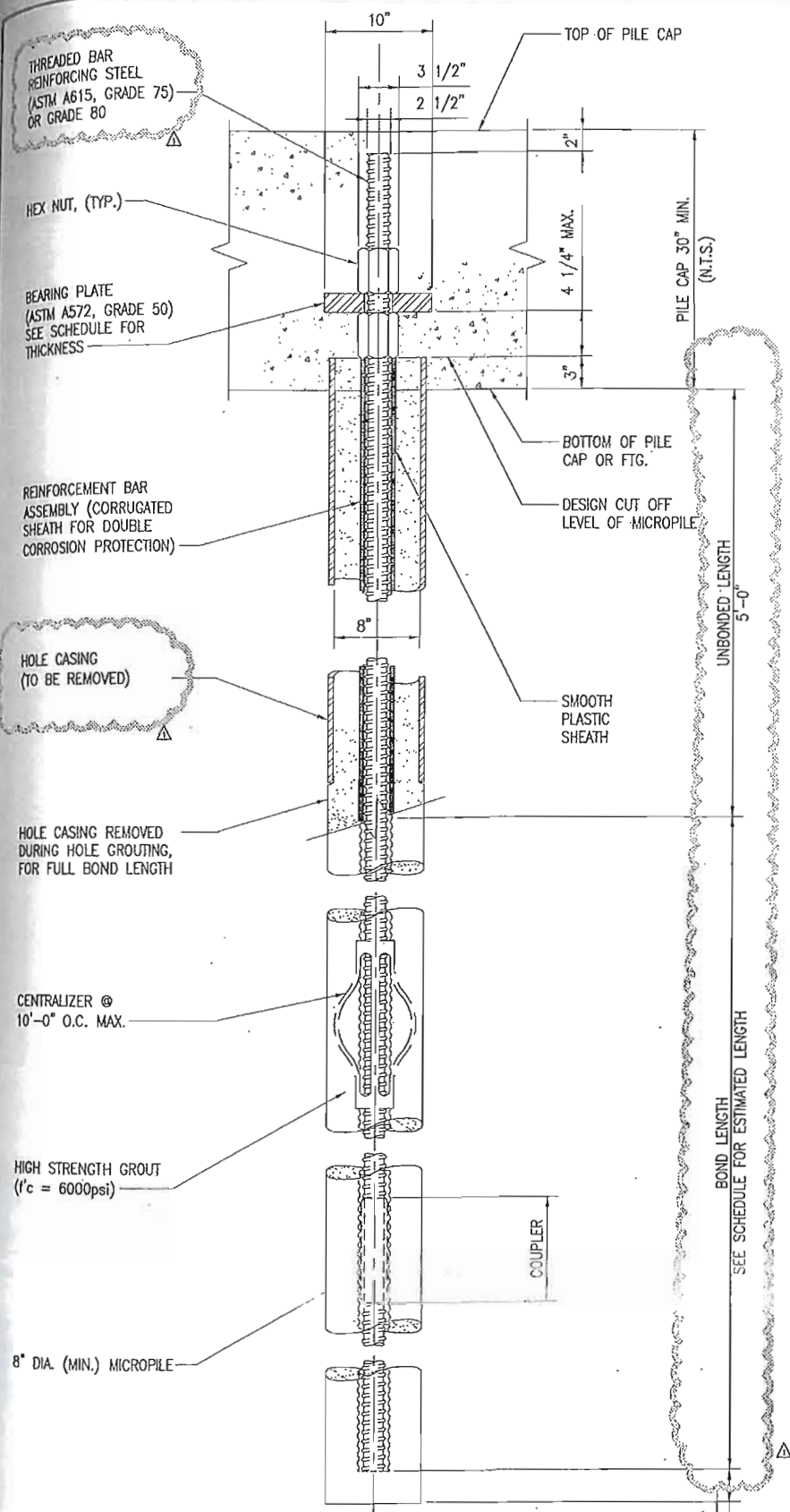


GENERAL COMMENTS:

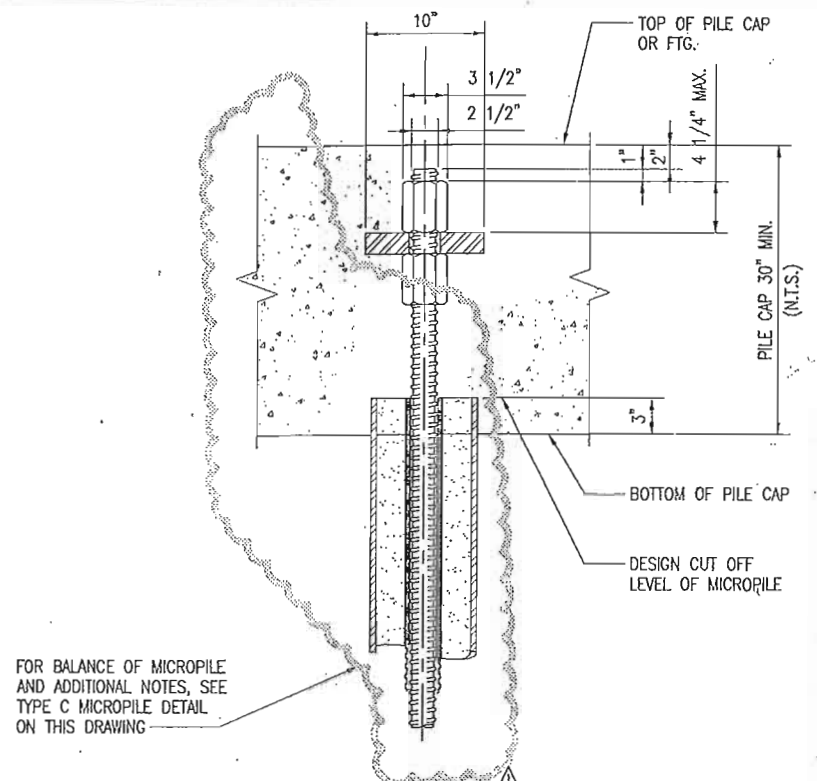
1. CONTRACTOR SHALL PROVIDE AS-BUILTS OF INSTALLED PILES FOR VERIFICATION INSTALLATION IS WITHIN SPECIFIED

Pile Cap Layout Elevations

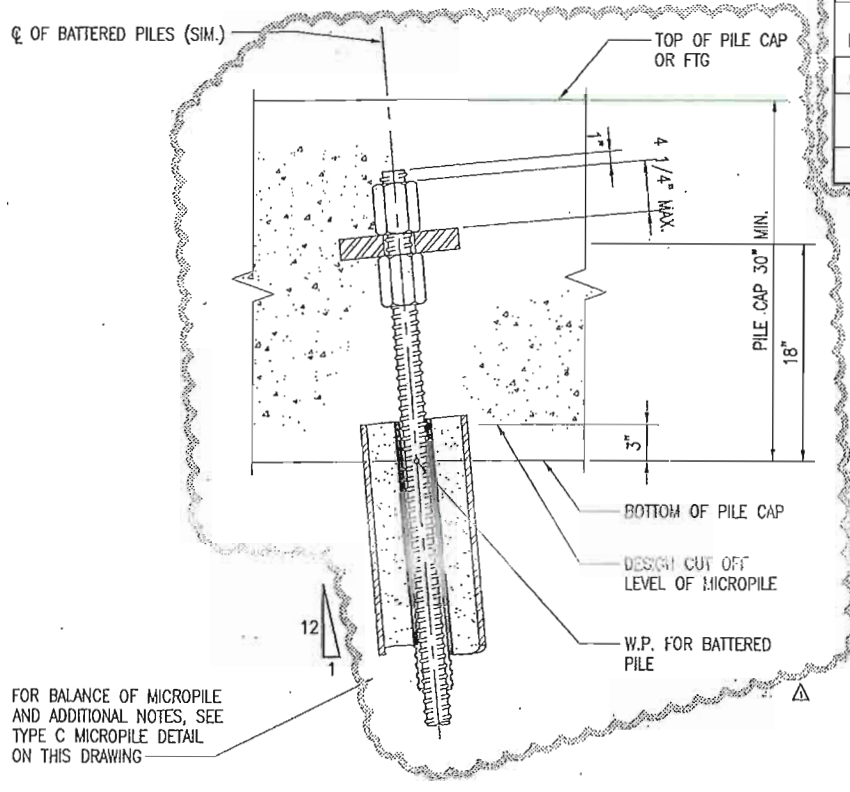
1.5/11/10 3163 33-205 L



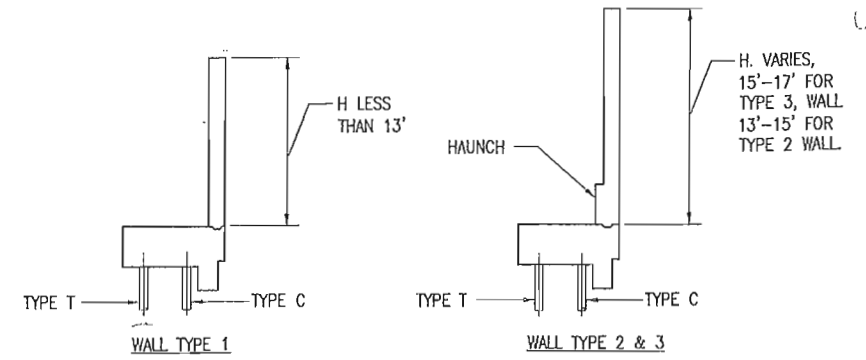
1 TYPE C MICROPILE
SR-006 SCALE: 1 1/2" = 1'-0"



2 TYPICAL TYPE T MICROPILE
SR-006 SCALE: 1 1/2" = 1'-0"



3 TYPE T BATTERED 1:12 MICROPILE
SR-006 SCALE: 1 1/2" = 1'-0"



Virgin

	WALL TYPE 1		WALL TYPE 2		WALL TYPE 3	
	TYPE C PILES	TYPE T PILES	TYPE C PILES	TYPE T PILES	TYPE C PILES	TYPE T PILES
ESTIMATED BOND LENGTH	48 FT	30 FT	48 FT	18 FT	60 FT	30 FT
BEARING PLATE	2"x10"x10"	1-3/4"x10"x10"	2"x10"x10"	1-3/4"x10"x10"	2 1/2"x10"x10"	1-3/4"x10"x10"
PILE DESIGN LOAD	240 KIPS	150 KIPS	240 KIPS	90 KIPS	300 KIPS	150 KIPS
MAX LENGTH	60 FT	60 FT	60 FT	60 FT	-	-

Barnes of New York

	WALL TYPE 1	
	TYPE C PILES	TYPE T PILES
ESTIMATED BOND LENGTH	39 FT	23 FT
BEARING PLATE	2"x10"x10"	1-3/4"x10"x10"
PILE DESIGN LOAD	195 KIPS	115 KIPS
MAX LENGTH	45 FT	-

	TYPE C PILES	TYPE T PILES
ESTIMATED BOND LENGTH	52 FT	30 FT
BEARING PLATE	2"x10"x10"	1-3/4"x10"x10"
PILE DESIGN LOAD	260 KIPS	150 KIPS

- FOR MORE DETAILED REQUIREMENTS, SEE THE CONTRACT SPECIFICATIONS.
- FINAL BOND LENGTHS SHALL BE ESTABLISHED BY FIELD TESTING
 - THE TEST LOAD SHALL BE 133 PERCENT OF THE DESIGN LOAD
 - PERFORMANCE TESTS, CREEP TESTS AND PROOF TESTS SHALL BE PER SPECIFICATIONS
- SEE DETAIL 1 SR-006 FOR TYPICAL TYPE C PILE DETAILS, AND DETAIL 2 SR-006 FOR TYPICAL TYPE T PILE DETAILS.
- FOR 48 STOCKTON SEE 3 SR-006 FOR TYPE T (BATTERED) PILE DETAILS AND DETAIL 1 SR-006 FOR TYPE C DETAILS.

3 MICROPILE SCHEDULE
SR-006 SCALE: NTS

BUILDING ADDRESS	MICROPILE SCHEDULE
# 2 STOCKTON	USE SCHEDULE A
# 17-19 STOCKTON	USE SCHEDULE B
# 48 STOCKTON	USE SCHEDULE B

FOR ORIGINAL SIGNATURES, SEE CL-17856 REV. 0.

DATE	DESCRIPTION	REV	BY	CHECKED	APPROVED
10/08/2010	REVISED DETAILS - ADDENDUM I	1	AL	MF	JL
07/08/2010	ISSUED FOR BID	0			

PB TELAMON

STRUCTUS, INC.
STRUCTURAL DESIGN AND ENGINEERING

DESIGNED	AL
DRAWN	EAA
CHECKED	FLC
REVIEWED	JMC
RECOMMENDED	MF
APPROVED	RE
DATE	



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

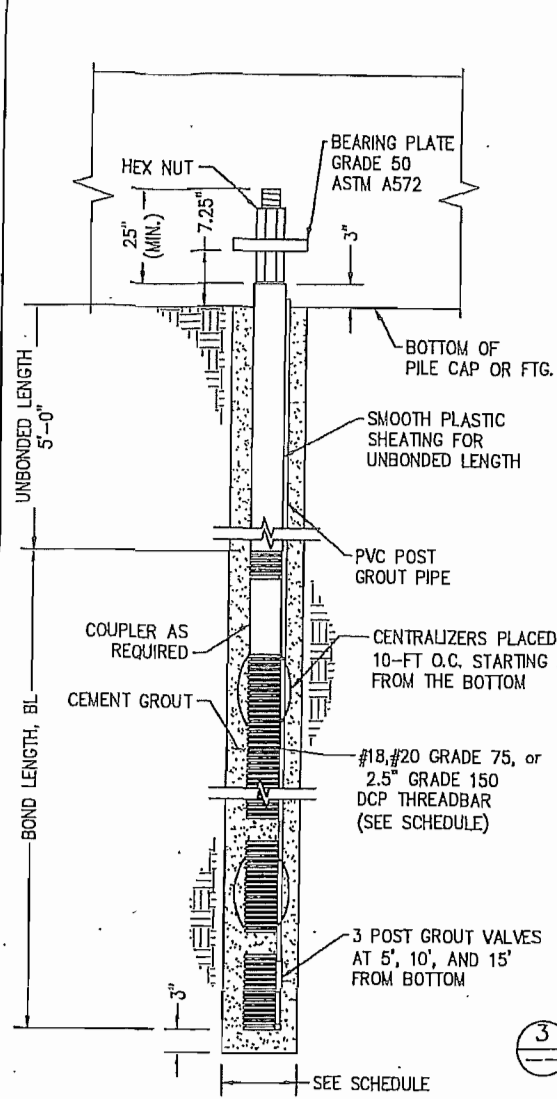
APPROVED

EXECUTIVE DIRECTOR/CEO

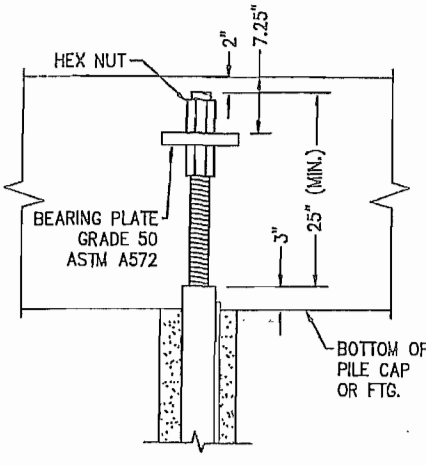
THIRD STREET LIGHT RAIL PROGRAM
PHASE 2 - CENTRAL SUBWAY
UNION SQUARE/MARKET STREET STATION UTILITIES RELOCATION

STRUCTURAL
MICROPILE DETAILS

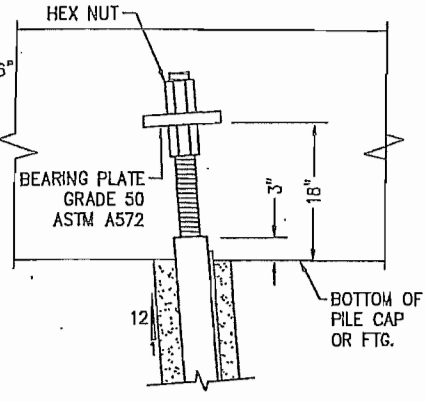
CONTRACT NO.	1251
GRAPHIC CONTROL NO.	CL-17856
DRAWING NO.	SR-006
SHEET NO.	169
REVISION	1



1 TYPE C MICROPILE
NO SCALE



2 TYPE T MICROPILE
NO SCALE

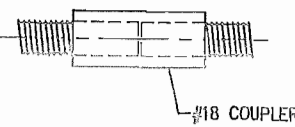


3 TYPE T BATTERED MICROPILE
NO SCALE

PHYSICAL PROPERTIES OF #18 GR. 75 DYWIDAG THREADBAR	
EFFECTIVE AREA:	4.00 SQ. IN.
YIELD STRENGTH:	75 KSI
ULTIMATE LOAD:	400 KIPS
YIELD LOAD:	300 KIPS
MAX. TEST LOAD:	270 KIPS
WEIGHT:	13.6 LBS/FT

LARGER BAR SIZES WITH GREATER THAN OR EQUAL YIELD STRENGTH MAY BE SUBSTITUTED FOR #18 GRADE 75

BUILDING ADDRESS	MICROPILE SCH.
#2 STOCKTON	USE SCH. A
#17-19 STOCKTON	USE SCH. B
# 48 STOCKTON	USE SCH. B



4 COUPLER DETAIL
NO SCALE

- COUPLER INSTALLATION PROCEDURE:**
1. WIRE BRUSH BAR ENDS (HALF THE LENGTH OF THE COUPLER) AND COUPLER INSIDE TO REMOVE RUST, DIRT, AND ALL LOOSE MILL SCALE.
 2. MARK HALF THE COUPLER LENGTH ON END OF EACH BAR SEGMENT.
 3. TORQUE BARS AGAINST EACH OTHER INTO THE COUPLER.

INSTALLATION PROCEDURE:

1. EXCAVATION FOR THE FOOTING SHALL BE COMPLETED TO TOP OF FOOTING ELEVATION. REMOVE (BY OTHERS) EXISTING STRUCTURES PER CONTRACT PLANS TO PROVIDE SPACE FOR MICROPILE INSTALLATION. THE DRILLING AND INSTALLATION OF THE MICROPILES WILL BE COMPLETED FROM TOP OF FOOTING ELEVATION. 15 FOOT OF HEADROOM, AND A 15 FOOT WIDE LEVEL BENCH IS NECESSARY FOR THE MICROPILE DRILL RIG.
2. THE CENTERLINE OF EACH MICROPILE SHALL BE LAID OUT AND STAKED IN THE FIELD. THE IDENTIFICATION NUMBER OF THE MICROPILE WILL BE CLEARLY MARKED ON EACH STAKE. PRIOR TO DRILLING, THE DRILL CREW SHALL SET OFFSETS FROM THE CENTERLINE STAKE. DURING DRILLING THE CREW SHALL CHECK THE OFFSETS IN ORDER TO INSURE THAT THE LOCATION OF THE DRILLED HOLE AND THE MICROPILE ARE WITHIN THE TOLERANCES SHOWN IN THE SPECS. CENTERLINE OF MICROPILE SHALL NOT BE MORE THAN 3 INCHES FROM PLAN LOCATION. MICROPILE SHALL BE PLUMB WITHIN 2 PERCENT OF TOTAL-LENGTH PLAN ALIGNMENT.
3. A HOLLOW STEM AUGER DRILLING METHOD WILL BE USED TO DRILL THE 12-INCH DIAMETER HOLE AND TEMPORARILY CASE THE MICROPILE HOLE. THE DRILL RIG WILL BE A DRILL TECH PROPRIETARY EXCAVATOR MOUNTED RIG OR KLEMM 806 OR SIMILAR. THE MICROPILE HOLES SHALL BE DRILLED TO THE DEPTHS AS INDICATED IN THE MICROPILE SCHEDULE AND PER THE MICROPILE TYPICAL DETAIL.
4. DRILL CUTTINGS SHALL BE CONTROLLED, COLLECTED, AND REMOVED FROM THE DRILLING AREA DURING DRILLING (BY OTHERS). CUTTINGS THAT ARE CONSIDERED SPOILS SHALL BE DISPOSED OF PER PROJECT SPECIFICATIONS (BY OTHERS).
5. DURING DRILLING, THE DRILL CREW SHALL FREQUENTLY CHECK THE AUGER STEEL WITH A LEVEL TO INSURE THAT THE HOLE IS DRILLED VERTICAL.
6. AFTER REACHING THE MICROPILE TIP ELEVATION WITH THE HOLLOW STEM AUGER, INSTALL THE ANCHOR BAR THROUGH THE HOLLOW STEM AUGER CASING. PERFORM THE FOLLOWING: 1) CLEAN THE ANCHOR BAR SO THAT IT IS FREE OF OIL, GREASE, OR OTHER EXTRANEOUS SUBSTANCES 2) AS NECESSARY, DUE TO HEADROOM CONSTRAINTS, FIELD SPLICE THE ANCHOR BAR PER THE COUPLER DETAIL, 3) ATTACH THE POST GROUT TUBE COMPLETE WITH POST GROUT VALVES TO THE ANCHOR BAR.
7. BATCH GROUT USING A CHEMGROUT (OR EQUIVALENT) HIGH PRESSURE GROUT PLANT WITH AGITATING MIXING TANKS. THE GROUT PUMP SHALL BE ABLE TO CONTINUOUSLY AGITATE THE GROUT AND CONTINUOUSLY GROUT THE MICROPILE IN ONE OPERATION. THE PUMP WILL BE EQUIPPED WITH A PRESSURE GAUGE. CHECK GROUT QUALITY BY PERFORMING CALTRANS' 541 TEST.
8. TREMIE GRAVITY GROUT THE MICROPILE FROM THE TIP (BOTTOM) OF THE AUGER CASED HOLE TO BOTTOM OF FOOTING (B.O.F) ELEVATION IN ONE CONTINUOUS OPERATION. WITHDRAW THE HOLLOW STEM AUGER CASING DURING GROUTING, TAKING CARE TO CONTINUE ADDING GROUT AFTER REMOVAL OF EACH AUGER SEGMENT DURING WITHDRAWAL. THE GROUT SHOULD BE FREE OF VOIDS OR INCLUSION OF FOREIGN MATERIAL. SEE THE MIX DESIGN FOR THE MICROPILE GROUT WITHIN THE "GROUTING PLAN" PORTION OF THE WORKING DRAWINGS.
9. MONITOR INSTALLED GROUT VOLUME BY A GROUT FLOW METER. RECORD THE QUANTITY OF GROUT IN THE MICROPILE LOG.
10. PROVIDE POST-GROUTING IN ACCORDANCE WITH THE POST GROUTING PROCEDURES OUTLINED IN THE "GROUTING PLAN" PORTION OF THIS SUBMITTAL.
11. RECORD ALL MICROPILE INFORMATION IN THE MICROPILE INSTALLATION LOG (SEE WORKING DWG SUPPLEMENT).
12. THE PRIMARY GROUT SHALL CURE FOR A MINIMUM OF SEVEN DAYS OR UNTIL FULL GROUT STRENGTH HAS BEEN ATTAINED AS DEMONSTRATED BY TEST RESULTS PRIOR TO ANY LOAD TESTING.

NOTE from PBT response to submittal 10/19

max pile lengths not show. Point to pile lengths.

GROUTING PLAN:

1. GROUT MIX DESIGN SHALL BE MODELED AFTER CALTRANS STANDARD SPECIFICATIONS 50-1.09. 5 - 94 POUND SACKS OF PORTLAND TYPE II CEMENT
25 GALLONS OF POTABLE WATER CONFORMING TO AASHTO T26 CALIFORNIA TEST 541 MINIMUM 11 SECONDS
2. STANDARD SPECIFICATIONS SECTION 50-1.09 ALLOWS THE USE OF WATER REDUCING ADDITIVES. WHEN MIXED IN THE ABOVE PROPORTIONS, IF THE NATURAL CHEMISTRY OF THE CEMENT VARIES RESULTING IN AN EXCESSIVE EFFLUX TIME OR TOO RAPID AN INITIAL SET, THE USE OF A WATER REDUCING AGENT WILL TEMPORARILY ALTER THESE PROPERTIES TO MAKE THE GROUT FLUID.

WATER REDUCING ADDITIVE MASTER BUILDERS "RHEOBUILD 1000" (CONFORMS TO ASTM C494) DOSAGE BETWEEN 8-12 FLUID OUNCES PER 94-POUND SACK OF CEMENT.

NOTE: ALTHOUGH THE CEMENT WATER GROUT MAY BE EXCESSIVELY THICK WHEN INITIALLY TESTED, THE ADDITION OF THE WATER REDUCING ADDITIVE MAY ON OCCASIONS REDUCE THE GROUT'S EFFLUX TIME BELOW THE MINIMUM 11 SECONDS SPECIFIED IN THE CALIFORNIA TEST 541, DEPENDING ON THAT BATCH'S CEMENT CHEMISTRY.
3. MINIMUM 28-DAY UNCONFINED COMPRESSIVE CUBE STRENGTH OF 5,000 PSI. AND MINIMUM 3-DAY STRENGTH OF 2000 PSI. MAXIMUM WATER TO CEMENT RATIO OF 0.45 BY WEIGHT. CORRELATION OF WATER-CEMENT RATIO AND STRENGTH IS PROVIDED IN THE WORKING DWG SUPPLEMENT.
4. A GROUT PRESSURE GAUGE SHALL BE PROVIDED IN THE FIELD.
5. MONITOR INSTALLED GROUT VOLUME BY A GROUT FLOW METER OR COUNTING SACKS OF CEMENT USED (1-94LB SACK OF CEMENT MIXED = 1 CUBIC FEET OF GROUT). RECORD THE QUANTITY OF GROUT IN THE MICROPILE LOG.
6. THE EQUIPMENT USED FOR GROUTING IS A DRILL TECH PROPRIETARY GROUT PUMP OR SIMILAR CHEMGROUT GP 60D GROUT PUMP WITH SOURCE OF COMPRESSED AIR, INGERSOLL-RAND HP 400 CFM (OR EQUIVALENT) TO POWER IT. THE PUMP WILL BE FURNISHED WITH A PRESSURE GAUGE.
7. THE GROUT PLANT HAS A DOUBLE MIX TANK DESIGN WHICH PERMITS CONTINUOUS PUMPING AS EACH MIX TANK ALTERNATES FEEDING THE PUMP. THE GROUT PLANT WILL BE CAPABLE OF PUMPING UP TO 20 GALLONS OF GROUT PER MINUTE.

POST-GROUTING PLAN:

1. A 1/2" DIAMETER SCHEDULE 40 POST-GROUT TUBE WILL BE ATTACHED TO THE MICROPILE BAR PRIOR TO INSTALLATION.
2. THE POST GROUT TUBE SHALL HAVE 3 POST GROUT VALVES LOCATED WITHIN THE BOTTOM 20 FEET OF THE BONDED LENGTH OF THE MICROPILE.
3. THE VALVES SHALL BE 5 FOOT ON CENTER WITH THE FIRST VALVE LOCATED 5 FEET FROM THE END TIP OF THE MICROPILE.
4. AFTER THE PRIMARY GROUT HAS SET, POST GROUTING OF THE MICROPILE WILL TAKE PLACE AT THE DISCRETION OF THE DRILL TECH JOBSITE FOREMAN.
5. POST GROUT SHALL HAVE A WATER-CEMENT RATIO OF 0.45 MAX.
6. THE POST GROUTING SHALL BE PERFORMED AT A MINIMUM PRESSURE OF 300 PSI.
7. THE POST GROUT TUBE MAY BE WASHED OUT WITH LOW-PRESSURE WATER TO ALLOW FOR THE NEXT POST-GROUTING STAGE AS NECESSARY.
8. SEE THE MICROPILE DETAIL FOR POST-GROUT VALVE LOCATIONS.

	MICROPILE SCHEDULE A						SCHEDULE B		SCHEDULE C	
	WALL TYPE 1		WALL TYPE 2		WALL TYPE 3		WALL TYPE 1			
	TYPE C PILES	TYPE T PILES	TYPE C PILES	TYPE T PILES	TYPE C PILES	TYPE T PILES	TYPE C PILES	TYPE T PILES	TYPE C PILES	TYPE T PILES
BL	45 FT	30 FT	45 FT	30 FT	55 FT	30 FT	30 FT	23 FT	60 FT	30 FT
MAX LENGTH	60 FT	60 FT	60 FT	60 FT	-	-	15 FT	-	-	-
PLATE	2"x10"x10"	1.75"x10"x10"	2"x10"x10"	1.75"x10"x10"	2.5"x10"x10"	1.75"x10"x10"	2"x10"x10"	1.75"x10"x10"	2"x10"x10"	1.75"x10"x10"
PILE DESIGN LOAD	240 K	150 K	240 K	90 K	300 K	150 K	195 K	115 K	260 K	150 K
PILE PROOF TEST LOAD	N/A	225 K	N/A	180 K	N/A	225 K	N/A	172.5 K	N/A	225 K
PILE VER. TEST LOAD	N/A	270 K	N/A	162 K	N/A	270 K	N/A	207 K	N/A	270 K
MINIMUM PILE DIAMETER	12 INCH	8 INCH	12 INCH	12 INCH	12 INCH	12 INCH	12 INCH	12 INCH	12 INCH	12 INCH
PRODUCTION BAR SIZE	#18 GR75	#18 GR75	#18 GR75	#18 GR75	#18 GR75	#18 GR75	#18 GR75	#18 GR75	#18 GR75	#18 GR75

ITEM #	DISCUSSION	ACTION BY DUE DATE
	<p>exception of Trend #5. The RE reported that PG&E contends Trend #05 could possibly be a MTA engineering error due to the fact that their information was not properly depicted on the As-Built drawing submitted to the Contractor. CMB suggested the RE get PG&E involved immediately in the proposal evaluation submitted by the Contractor if the work involved is at the request of the Utilities. This item will be brought back to the CMB once the RE has met with PG&E and has agreed upon a negotiated cost for the work. Status: 12/12 <i>This item was not discussed at this week's meeting.</i></p>	
<p>2- 12/06/12</p>	<p>1252 - Mark Benson and Sarah Wilson presented for content and structure the Summary Record of Negotiations for COR 007 - Oil filled pipe @ Launch Box. The CMB suggested the RE revised the summary to show the delta between the Contractor's estimate and the final negotiated amount, also to expand on the informational story of the timeline of negotiations. In addition the CMB also recommend the heading "Negotiated Reduction" referring to the incorrectly used labor rates for the subcontractor be revised to read "Disputed Amount". Status: 12/12 <i>This item was not discussed at this week's meeting.</i></p>	<p>S. Wilson 12/19/12</p>
<p>4- 12/06/12</p>	<p>1252 - Sarah Wilson presented Evaluation of Merit of, COR 012 - Archaeological impacts at the Moscone north headwall – While excavating at the MOS north headwall the Contractor discovered archaeological artifacts within the excavation area along 4th St. The Contractor was requested to provide support to the archaeological team for excavation and removal of the artifacts. CMB did not agree with merit, requesting further information be presented regarding the method of dealing with State Historic Preservation Officer (SHPO) concurrence. The CMB also requested knowledge of who dictated the artifacts to be bagged as well as the current location of the bagged items. R. Edwards will take the lead on acquiring more facts on the deciding method of removal of artifacts. This item will be brought back to the CMB at a later date. Status: 12/12 <i>R. Edwards provided clarification to last week's action item; how MOS headwalls midden were for addressed. The field implemented the modified procedure which is based on what is to be done at Moscone station mass excavation; currently contained in Archeological Testing Plan. The basic parameters of the MOS process were applied to the trench, putting the midden into bags storing it and sampling it on site so the construction can continue to move on. The sample is examined on site to see if there is anything materially different than what has been seen before, if there wasn't then it is disposed of on site, which is how the spec reads and what took place. The CMB agreed with merit for work associated with the support the Contractor provided for removing the midden; putting it in bags and disposing on the site. CLOSED</i></p>	
<p>10- 12/06/12</p>	<p>1252 – Sarah Wilson presented Evaluation of Merit of, COR 041 – Full time flagger for one night shift of work. Emergency Flagger was provided per the request of the SFMTA in order to facilitate PG&E as required to finish the abandoning of the live power feed to the Launch Box area. CMB agreed with merit for work associated with use of flagger to facilitate the work. The CMB requested signoff to be submitted to PG&E and this item be tracked on force account to PG&E. COR will be re-written to include text "cost will be charged to PG&E". Status: 12/12 <i>This item was not discussed at this week's meeting</i></p>	<p>S. Wilson 12/19/12</p>
<p>1-</p>	<p>1252 – Sarah Wilson presented Evaluation of Merit of; COR 022 – Moscone Asbestos Pipe Abatement at North Headwall – Contractor discovered an asbestos laden transite pipe during utility demo at Moscone North Headwall on 4th St. between Howard and Folsom St. AT&T conduit was shown on contract drawings, but does not depict it having asbestos material. The CMB agreed with partial merit for work associated with removal and disposal of the hazardous material only. Cost for removal and disposal in accordance with Bid Item GE-8 an allowance has been establish to pay for Environmental Mitigation. In addition the CMB requested as a follow up action validation from Design Oversight that 1300 contract documents include as built information regarding AT&T conduit and noting it is asbestos pipe.</p>	<p>R. Edwards 01/09/13</p>
<p>2-</p>	<p>1252 – Sarah Wilson presented Evaluation of Merit of; COR 026 – Moscone Asbestos Pipe Abatement at South Headwall - Contractor discovered an asbestos laden transite pipe during utility demo at Moscone South Headwall on 4th St. between Howard and</p>	

SFMTA Contract No. 1252

Contractor: Barnard Impregilo Healy JV (BIH)

EVALUATION OF MERIT

COR 022

Recommendation: Accept justification of partial Merit for additional costs associated with COR 022 – Moscone Asbestos Pipe Abatement at North Headwall. Costs for removal, abatement and disposal of asbestos laden transite pipe and debris shall be considered for compensation under and in accordance with Bid Item GE-8 - Environmental Mitigation Allowance. Cost for standby or loss of production shall not be considered for compensation.

Facts: The Contractor discovered an asbestos laden transite pipe on 07/10/12 during utility demolition activities at the Moscone North Headwall location on Fourth St. between Howard Avenue and Folsom Street. The AT&T conduit was shown on the contract drawings but was not shown to contain asbestos material. The Contractor removed and disposed of the asbestos pipe and debris on 07/12/12. The Contractor did not submit a request for time extension.

Contractor Rationale for COR: The Contractor incurred costs during the removal, abatement and disposal of the asbestos pipe and debris. The Contractor is seeking reimbursement for these environmental mitigation costs. The Contractors is also claiming additional costs as their utility demolition crew were unable to continue productive demolition work after the discovery of the asbestos pipe.

Justification: Additional work and costs were incurred by the Contractor to handle and dispose of the asbestos laden pipe and debris. In accordance with technical specifications section 01-20-00 an allowance has been established to pay for Environmental Mitigation as needed and directed by the City. Standby or loss of production time is not justified because the Contractor was required to locate and identify the underground utilities in advance of the utility removal work.

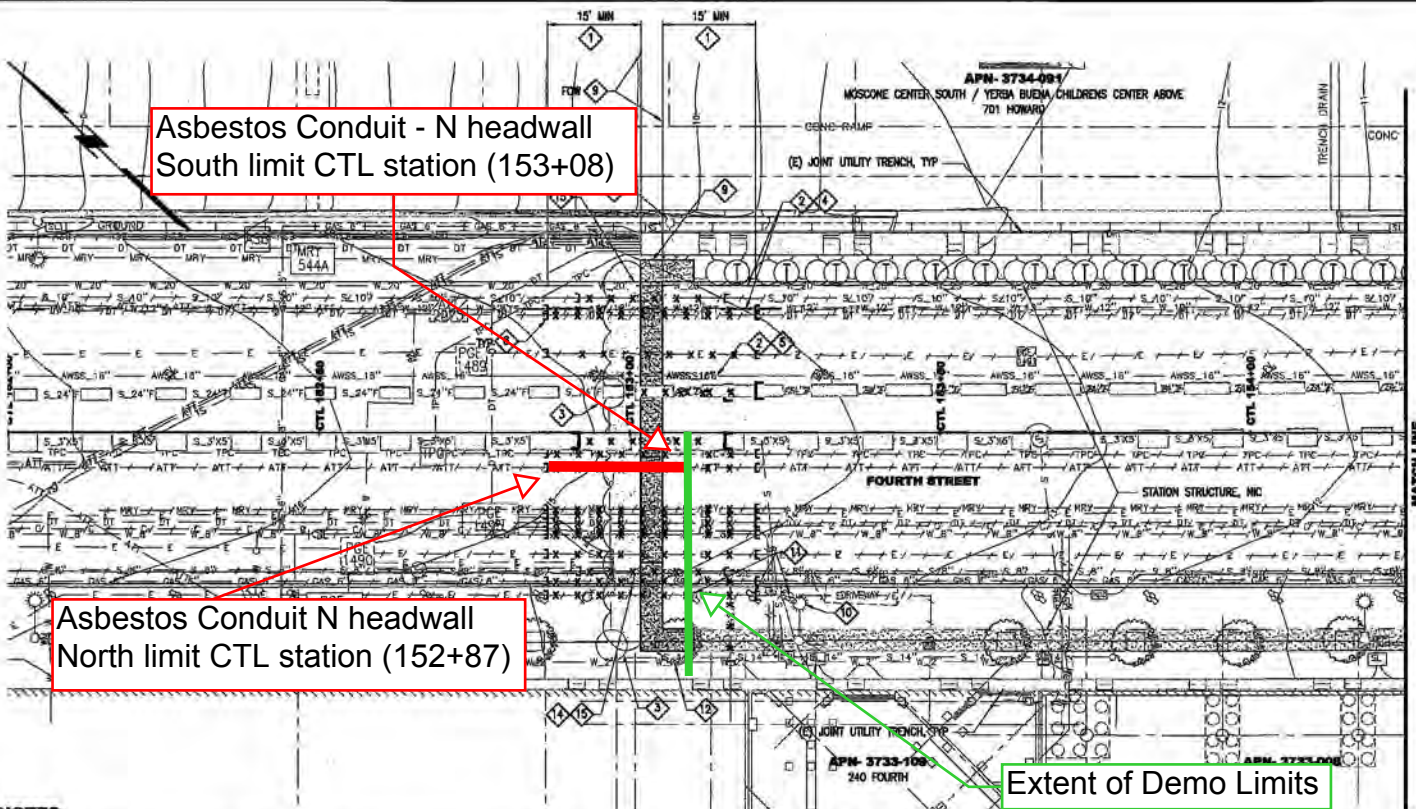
Change Type: (2) Unforeseen Condition

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

[Signature] 12-12-12
Configuration Management Board Date
Approval

*INCLUDE PIPE
IN CONTRACT 1300*

S:\shen03\1544\1\FinalDesign\Drawing-821\2-Civil\Utility Demolition\Sheet File CP03\M4423040402.dwg PBoyall Wed Jan 26, 2011 1:57 pm UD-402



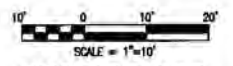
Asbestos Conduit - N headwall
South limit CTL station (153+08)

Asbestos Conduit N headwall
North limit CTL station (152+87)

Extent of Demo Limits

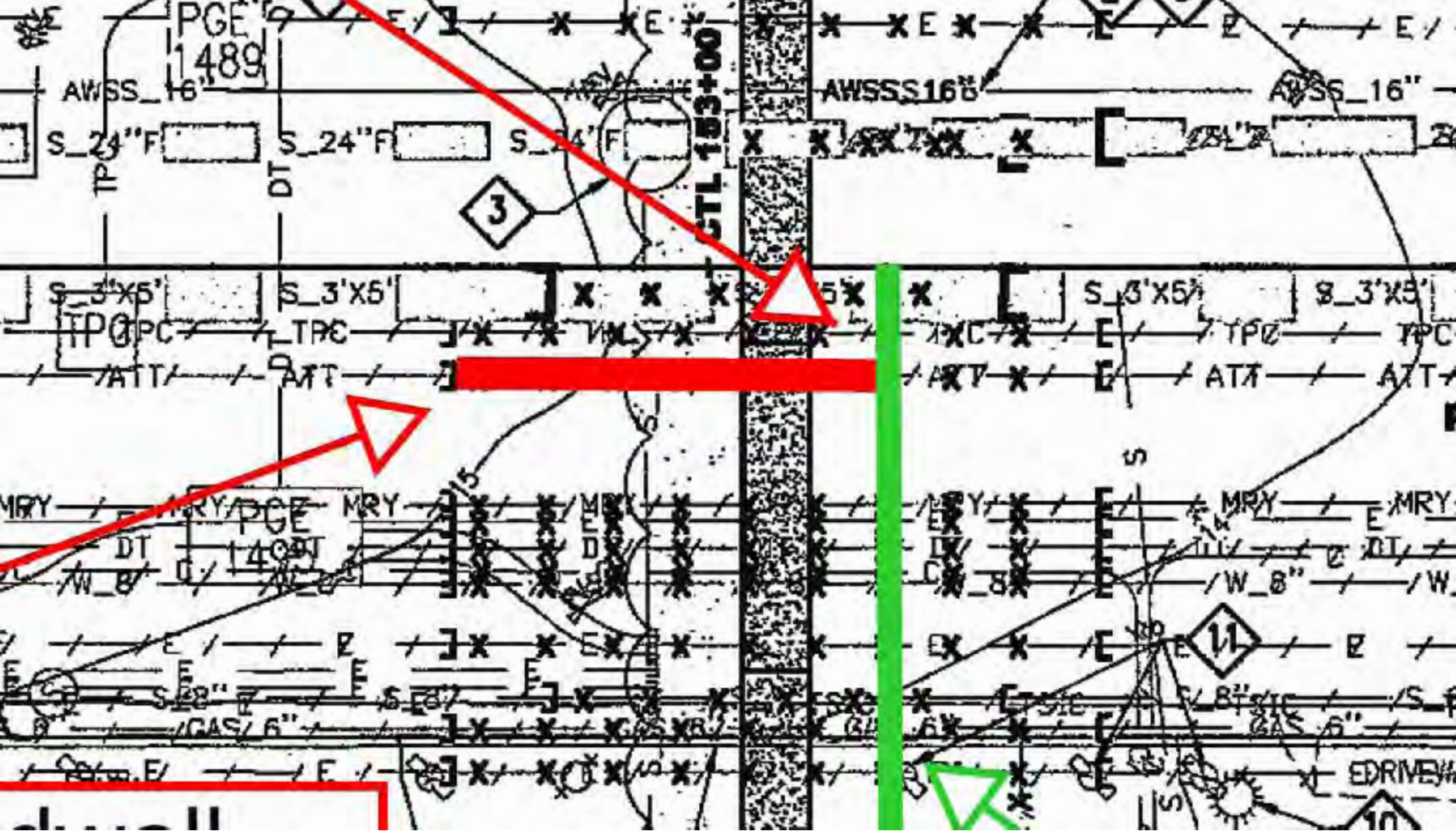
NOTES:

1. DEMOLISH AND REMOVE ALL ABANDONED UTILITY FACILITIES, INCLUDING PREVIOUSLY ABANDONED FACILITIES NOT SHOWN ON PLANS, AT JET GROUT OR HEADWALL LIMIT.
2. ACTIVE UTILITIES SHALL BE MAINTAINED UNTIL RELOCATION OR CUT OVER, UNLESS OTHERWISE NOTED. COORDINATE DEMOLITION WITH HEADWALL CONSTRUCTION PHASING.
3. PROTECT (E) SEWER.
4. SEE (WD) DRAWINGS FOR ABANDONMENT AND REMOVAL OF WATER FACILITIES.
5. SEE (AW) DRAWINGS FOR ABANDONMENT AND REMOVAL OF AWSS FACILITIES.
6. PROTECT (E) AT&T FACILITIES.
7. PROTECT (E) JOINT TRENCH.
8. CAP OR PLUG ALL ABANDONED FACILITIES INCLUDING PREVIOUSLY ABANDONED FACILITIES NOT SHOWN ON PLANS AT JET GROUT LIMIT.
9. PROPOSED STATION HEADWALL. SEE (ES) DRAWINGS FOR LOCATION AND DETAILS SEE. CONTRACTOR SHALL VERIFY THE HEADWALL LOCATION PRIOR TO COMMENCEMENT OF DEMOLITION.
10. TEMPORARILY REMOVE (E) STREET LIGHT IF NECESSARY FOR CONSTRUCTION AND REINSTALL AFTER HEADWALL CONSTRUCTION.
11. (E) PARKING METERS. CONTACT DPT IF DEMOLITION IS REQUIRED. SEE CONTRACT SPECIFICATIONS FOR MORE INFORMATION. IF REMOVED, REINSTALL IN SAME LOCATION AFTER HEADWALL CONSTRUCTION.
12. REMOVE (E) TREE AS CONTRACTOR'S PROPERTY. PRIOR TO REMOVAL CONFIRM STREET TREE REMOVAL PERMIT WAS OBTAINED.
13. SEE (UT) DRAWINGS FOR TEMPORARY REMOVAL OF SEWER.
14. REMOVE (E) CURB AND GUTTER AS NECESSARY AND REINSTALL AFTER HEADWALL CONSTRUCTION.
15. SEE (PD) & (RP) FOR PAVEMENT REMOVAL AND RESTORATION.



CONFORMED

				THIRD STREET LIGHT RAIL PROGRAM PHASE 2 - CENTRAL SUBWAY TUNNELS		CONTRACT NO. 1252	
		TELAMON ENGINEERING CONSULTANTS INC. DATE: JAN 21 2011		APPROVED: PROJECT DIRECTOR		CIVIL ENGINEER NO. CL-18029	
DATE: 01/21/2011 ISSUED FOR: MD		PROJECT:		DRAWING NO.: UD-402		REVISION: 0	
SHEET NO.: 82		TOTAL SHEETS: 82		UTILITY DEMOLITION MOSCONE STATION CTL 152+00 TO 154+25		SHEET NO.: 82	





07/12/2012 10:16



07/12/2012 09:43

CMB Meeting Minutes #100

~~DATE: November 08, 2012~~

~~MEETING DATE: **November 07, 2012**~~

~~LOCATION: 821 Howard St, Main Conference Room~~

~~TIME: 3:00 PM~~

~~ATTENDEES: J Funghi (JF), A. Hoe (AH), J. Park (JP), Richard Redmond (RR), R. Edwards (RE), M. Benson (MB), E. Stassevitch (ES), B. Ward (BW), M. Acosta (MA), S. Wilson (SW), Q. Chin (QC), Guy Hollins (GH), M. Hembd (MH), M. Lee (ML),~~

~~COPIES TO: Attendees: S. Farhangi (SF), A. Wong (AW), M. Latch (ML), R. Nguyen (RN), J. Wang (JW), C. Morganson (CM), A. Read (AR), L. Zurinaga (LZ), (ML), B. Lebovitz (BL), 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 # 100 - Rev. No. 0~~

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

ITEM #	DISCUSSION	ACTION BY DUE DATE
1-	<p>1254 – R. Edwards and Quon Chin presented for information as a potential- ECP FD-00XX – Elongated Sidewalk Bulb out at Chinatown Station, which would extend the planned pedestrian curb extension at the southwest corner of Washington 130 feet to accommodate a bus stop. The SF Planning Department requested change would bring CTS in close conformance with the City’s General Plan to create a “station plaza”. In addition the SF Planning Department requested the installation of street trees along Stockton Street adjacent to the Chinatown Station and trees along Washington Street. The proposed design change will require design drawing modifications of several disciplines. Construction and design costs need to be developed and vetted. The CMB required that the Engineering Change Proposal be brought back to the CMB at later time when more specific information is available and cost schedule impacts identified.</p>	
2-	<p>1251 - M. Benson and M. Acosta presented for approval Trends related to the installation of additional rebar; acceleration of the PG&E vault, completion and restoration in front of Barneys for approval. Trend No. 49 Additional cost related to installation of additional rebar at 1 Stockton – A recessed wall was discovered at the Apple property wall so additional rebar needed to be added at the back end of enclosure wall. The different condition was discovered after negotiation of lump sum change for the Apple Wall (CMod #13). Trend No.53 Additional costs to accelerate Contract work related to AT&T a PG&E vaults, Trend No. 59 Additional costs to accelerate Contract work as required to clear Barney’s frontage, and Trend No. 64 Accelerate finishing/detailing work on AT&T and PG&E vaults, are all related to payment for Owner directed acceleration of work and is limited to premium time on labor costs only. All the work has been tracked through force account and daily reports for premium time only. AGREE – CMB 0083.</p>	
3-	1252 - Sarah Wilson presented updated backup material for previously agreed to COR	

STEP 1

Title: Elongated Sidewalk Bulb-out at Chinatown Station		ECP #: FD-0XX
Submitted By: H. Quon Chin Contract#: CS155.2/1300; Package CTS-1254R Task #: 15.20 Task Name: Post-Design Services	Date: 11/07/2012	Signature:

STEP 2

Change Affects: FEIS/FEIR: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Design Criteria: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> PE Package: Drawings, Specifications Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Safety or Security: Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Multiple Disciplines: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Muni or DPT O&M: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>	Other Tasks/ Disciplines Affected: Sustainable Streets (Traffic) Civil Architecture Landscape Architecture SFMTA OCS DPW
Construction Schedule Impact (if any):	None Identified (at the present time)
*Design Schedule Impact (if any):	Include in Contract 1300 Addendum
Construction Cost Impact (if any):	To be determined
*Design Cost Impact (if any):	To be determined

Description of Change:

To bring the Central Subway Project – Chinatown Station in closer conformance with the City’s General Plan, SF Planning Department in its May 7, 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.

Street trees are a requirement of Planning Code Section 138.1: requiring one street tree for every 20 feet of frontage, with an additional tree required for every remaining 10 feet of frontage. See reference document “Tree Planting and Protection Check List” cited below. Pursuant to Planning Code section 138.1, the Planning Department has required the installation of five (5) street trees along Stockton Street adjacent to the Chinatown Station (and 3 trees along Washington). Installation of these street trees is a provision of the Planning Department’s Notice of Special Restrictions and a condition of the Planning Department’s building permit approval.

Design modification from implementation of proposed change will require revision to the traffic drawings, additional sidewalk legislation, sidewalk pavement design (DPW), roadway drainage and catch basins (DPW), location of the OCS pole, architecture, landscape architecture, civil and possibly utility relocations (AT&T ductbank, W-6” and cable). Utility relocations mentioned were not in Final Design scope of work,

hence additional depth and location information (potholing) will be new required work.

It should be noted that the proposed elongated bulb-out is a change from the Preliminary Engineering (PE) design which formed the basis of the Final Design documentation and completion of the work.

From a broader perspective, incorporation of the elongated bulb-out will also provide the opportunity for Central Subway to coordinate a bus stop relocation proposal from SFMTA Service Planning to a location in front of the new station headhouse for an enhanced intermodal connection. The existing southbound bus stop on Stockton Street is presently located mid-block between Jackson and Washington Streets or approximately half a block distance for the connection. If this design element is an acceptable change to incorporate in conjunction with Planning design recommendations, the coexistence of a bus stop, SFMTA/Muni bus shelter, proposed trees, bike racks and other features will also need to be coordinated between SFMTA and SF Planning.

Reason and Justification for Change:

Conditions to SF Planning Department approvals of:

1. General Plan Referral (GPR) application – Case No. 2011.1202R;
2. Conditional Use Application – Case No. 2012.0641C and adoptions noted in
3. Planning Commission Motion No. 18699, September 06, 2012
4. Improvement to the future intermodal connection between the 8x, #30, #45 buses and Central Subway T-Line service.

- Reference Documents:**
1. **SF Planning Department** GPR Case No. 2011.1202R, Central Subway Project-Chinatown Station, *May 7, 2012*
 2. **SF Planning Department** Planning Commission Motion No. 18699, Case No. 2012.0641C, 933-949 Stockton Street, *September 6, 2012*
 3. **SF Planning Department** Tree Planting and Protection Checklist, Case No. 2012.0403.7405 – Completed w/DBI Building Permit Application.
 4. **Exhibit CTS Trees1** – w/package to Planning Commissioners
 5. **Contract 1300/Package CTS-1254R** Architectural Site Plan Drawing AR-100, Rev. 0, *October 22, 2012*
 6. **Contract 1300/Package CTS-1254R** Floor Plan, Surface Level – 4, Rev. 2, *October 22, 2012*

STEP 3

Reviewed By ECP Submittal Design Package Project Manager:	Date:	Signature:
Comments:		
Change Recommended: Yes <input type="checkbox"/> No <input type="checkbox"/>		

*Design schedule and/or cost impacts provided here are for reference only and acceptance of the subject design change does not constitute acceptance of either the design schedule or design cost impacts.

STEP 4

Reviewed By Project Controls Manager (Cost and Schedule): Eric Stassevitch	Date:	Signature:
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Comments:

STEP 5

Approved for Distribution By Discipline Lead:	Date:	Signature:
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Comments:

Change Recommended: Yes <input type="checkbox"/> No <input type="checkbox"/>
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STEP 6

Reviewed By Impacted Contract/Design Package Project Manager:	Date:	Signature:
--	--------------	-------------------

Comments:

Change Recommended: Yes <input type="checkbox"/> No <input type="checkbox"/>
--

Add as many Contract/Design Package Project Manager review blocks as necessary

STEP 7

Reviewed By SFMTA Design Manager:	Date:	Signature:
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Comments:

Change Recommended (If yes, forward to Project Manager): Yes <input type="checkbox"/> No <input type="checkbox"/>

STEP 8

Reviewed By Project Controls Manager (Cost and Schedule): Eric Stassevitch	Date:	Signature:
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Comments:

Change Recommended: Yes <input type="checkbox"/> No <input type="checkbox"/>
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STEP 9

Reviewed By Program Manager Project Development: Ross Edwards	Date:	Signature:
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Comments:
Change Approved: Yes <input type="checkbox"/> No <input type="checkbox"/> Change to be forwarded to CMB: Yes <input type="checkbox"/> No <input type="checkbox"/>

Verification of Design Change Implementation
The undersigned verifies that changes have been made to all documents impacted by the above approval design change.
Design Package: <input type="checkbox"/> <input checked="" type="checkbox"/> <input type="checkbox"/> 1 2 3
Design Package QC Manager: <div style="text-align: right;"><hr/>Print</div> <div style="text-align: right;"><hr/>Signature</div> <div style="text-align: right;"><hr/>Date</div>

ITEM #	DISCUSSION	ACTION BY DUE DATE
1	1252 - Sarah Wilson presented Evaluation of Merit of, COR 17 – MOS - Standby Time at south headwall due to Live Traffic Signal lines. Three live traffic signal lines were discovered which ran lengthwise through the headwall construction (not shown on dwg UD-403). The Contractor was unable to perform utility demolition and guidewall installation work as planned and is seeking compensation for standby by time while a resolution to relocate the traffic signal was received from SFMTA. RE is recommending rejecting this COR. Justification for rejection of merit is due to other work the Contractor could have performed while waiting for a response to RFI #110 – Proposal to Permanently Reroute Traffic Lines. A letter will be sent to the Contractor rejecting the COR's merit.	
2-	1252 - Sarah Wilson presented Evaluation of Merit of, COR 18 – MOS South Headwall re-design previously presented to the CMB in August (mtg #93). The Contractor contends that end stops are not required at the end of the return wall depicted on contract drawing (ES-421 Rev 0). RE is recommending a possible compensation value of \$135K. Based on the information presented the CMB found some merit for labor and material cost but were unclear from the COR, what element of work actually constituted the change. The RE is to proceed with a scoping meeting with a special emphasis on obtaining description of work as bid by Contractor so that the change can be better defined and quantified.	S. Wilson 11/21/12
3-	1252 - Sarah Wilson presented Evaluation of Merit of, COR 33 Ret Shaft - 20" Water Line Conflict – Contract drawings depict 20" water line being installed further east to the Muni (MRY) electrical duct bank instead of to the side as depicted on the contractor drawings to be installed to the side. Due to the proximity of MRY duck bank the Contractor must excavate and shore a larger hole in order to demolish the concrete around the duct bank to allow for 18" for welding all around the pipe. Based on the information presented the CMB found some merit for additional labor and material costs but were unable to clearly establish what element of work constituted the change as presented in the COR. RE will proceed with scoping the work to better define and quantify the change.	S. Wilson 11/21/12
4-	A. Ayres presented a change in the Schedule overall duration of the CN1300 Critical Path. Changes made to work calendars for the UMS station garage to include work during the moratorium, removed the garage work from the critical path. The NTP date has moved from May 1 to May 15 (Addendum 1). UMS pile installation changed from 115 – 100 days. Substantial completion has gone from 1736 calendar days to 1700 calendar days. These changes in the overall UMS schedule duration has resulted in an additional 15 working days of Muni float for a total of 83 working days.	

SFMTA Contract No. 1252

Contractor: Barnard Impregilo Healy JV (BIH)

EVALUATION OF MERIT

COR 033

Recommendation: Accept justification of Merit for costs associated with COR 033. The contract documents do not accurately depict the correct location of an existing 20" water line. The water line's location and position underneath a MUNI (MRY) electrical duct bank will impact the contract work associated with the installation of the new low pressure water line. Additional effort will be required to mitigate impacts to the contract work. No additional time will be granted as this work will not affect the critical path of the project.

Facts: The relevant contract drawings are UD-701 Rev.0, UT-701 Rev.1 and UT-721 Rev.1. WD-701 Rev.0.

The existing MRY duct bank which runs south to north at the intersection of Columbus Ave. and Union St. is shown in the contract drawings to have been installed to the side of an existing 20" low pressure water line. During the excavation required for the contract water line removal and relocation work BIH's subcontractor, Synergy Project Management (Synergy or SPM), discovered that the existing water line was actually further east than was indicated in the drawings which positioned the tie-in connection for the new water line directly underneath the MRY duct bank.

Rationale for COR: SPM states that they originally intended on excavating a 5' x 5' tie-in hole to enable the water department to cap the existing line then backfill after the water department completed its work. Due to the close proximity of the existing water line to the MRY duct bank, SPM is now required to excavate and shore a larger hole in order to demolish the concrete around the duct bank and allow room for the water department to stub the existing 20" water line out from underneath the MUNI lines. SPM states that they must demolish more of the duct bank than was anticipated so that they can lift the MUNI electrical lines out of the way. After the tie-in is complete SPM will install a split duct to cover existing cables and restore the concrete encasement around the MUNI duct. As a result of having a larger excavation more shoring, steel plates, backfill and paving will be required than was originally anticipated. SPM claims that they will not be able to achieve the same production rates as assumed during the time of bid due to the presence of live electrical lines within the ductbank.

Justification: The contract drawings do not accurately depict the correct location of the 20" water line and therefore the additional costs that will be incurred to mitigate impacts to the installation of the new low pressure water line should be made compensable. The appropriate dimensions of the original excavation will be confirmed and compared to the revised excavation dimensions.

ITEM #	DISCUSSION	ACTION BY DUE DATE
	<p>The Construction Manager will forward the complete package to Joon Park for a more thorough review followed by a recommendation to Shahnam Farhangi, SFMTA Contractor Administrator. This item will be brought to the next CMB meeting. In addition a recommendation by the Board was given to update the Proposed Contract Change (PCC) Issuance and Processing procedures “Concur In Principle” section (Form 1102-1) delegating signature approval to a voting member of the Configuration Management Board. <i>08/29 Status: The PCC approval concurrence was giving by the SFMTA Contractor Administrator on 08/23. A copy of the signed documentation needs to be presented to the CMB for final board approval. 09/12 Status: This item was not discussed at this week’s meeting.</i></p>	
<p>5-08/08/12</p>	<p>1252 – R. Edwards presented a PCC for Tunnels - Reduction of UMS Headwall Concrete and Reinforcement Limits for approval of change. (See attached PCC-02). This change would reduce the cost of the headwall construction as well as facilitate the future station demolition of the headwalls. The CMB was in agreement this change needs to be done but wanted to review detailed estimate. This item will be brought to the CMB for signature approval next week. <i>08/15: Agenda item was viewed however; cost estimate was not available to review. The CMB requested a complete package be brought back to next week’s meeting for review and signature approval. 08/22: A complete PCC package which included the cost estimate was reviewed, however Proposed Contract Change concurrence was not given by the Contract Administrator’s representative due to lack of authority to sign contract changes. The Construction Manager will forward the complete package to Joon Park for a more thorough review followed by a recommendation to Shahnam Farhangi, SFMTA Contractor Administrator. This item will be brought to the next CMB meeting. In addition a recommendation by the Board was given to update the Proposed Contract Change (PCC) Issuance and Processing procedures “Concur In Principle” section (Form 1102-1) delegating signature approval to a voting member of the Configuration Management Board. 08/29: <i>The PCC approval concurrence was giving by the SFMTA Contractor Administrator on 08/23. A copy of the signed documentation needs to be presented to the CMB for final board approval. 09/12 Status: This item was not discussed at the meeting and is on hold pending the outcome of the meeting with the contractor regarding their response to PCC 1252-002 UMS Headwalls.</i></i></p>	<p>ES 09/19/12</p>
<p>1-</p>	<p>1251 - M. Benson presented for consideration Trend #37, 44 and 45 - Sewer Installation change for the Gucci Store, Macy’s West and Union Square Garage. Existing sewer laterals depicted on the contract drawings for the Gucci store and Union Square Garage were found to be connected to a downstream end of the existing main which required installation of new laterals. In additional the 8” sewer lateral for Macy’s West is too big to be connected directly to the 14” main requiring a new lateral be installed at a higher elevation (see photos attached). AGREE – CMB 0077. The CMB recommended that this issue be pursued as a potential E&O from the designer.</p>	
<p>2-</p>	<p>R. Edwards presented for discussion a review of the draft matrix proposal for the potential bid depicting an A+B+C+ D and/or Combined Bid Contract Strategy for discussion. A meeting will be set up next week to present a draft mock-up the proposal CSP/SFMTA Program Management.</p>	
<p>3-</p>	<p>Due to time limitations the 100% Estimates - Escalation for contracts 1255 (MOS) and 1256 (STS) was not discussed but will included on next week’s agenda for review.</p>	

PROPOSED CONTRACT CHANGE

Form 1102-1

Contract No. 1252 - Tunnels

Date 8/22/12

PCC No. 1252-02

PCC Title Reduction of UMS Headwall Concrete and Reinforcement Limits

Description of PCC

Summary of Changes*

- Lower reinforcement and high strength concrete limits for headwall construction to facilitate future Union Square demolition. The reinforcement and high strength concrete will stop at the elevations shown.
- Headwall is to be backfilled with sand or equivalent. No reinforcing is to be used inside backfill.
- Outside secant piles are to remain.

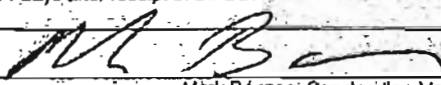
* This list is only a summary. Refer to the attached drawings for further details of changes associated with this PCC

Spec Ref N/A

Drawing Nos. ES-305, ES-306 (see attached markup)

The Contractor's proposal in price and time is required on the following proposed contract change to the subject contract in accordance with the General Provisions Section 8.02.B within 14 days after receipt of a PCC.

Recommended by:

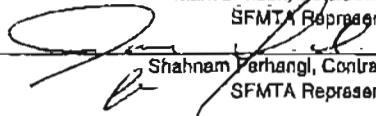


Mark Benson, Construction Manager
SFMTA Representative

8/23/2012

Date

Concur In Principle:

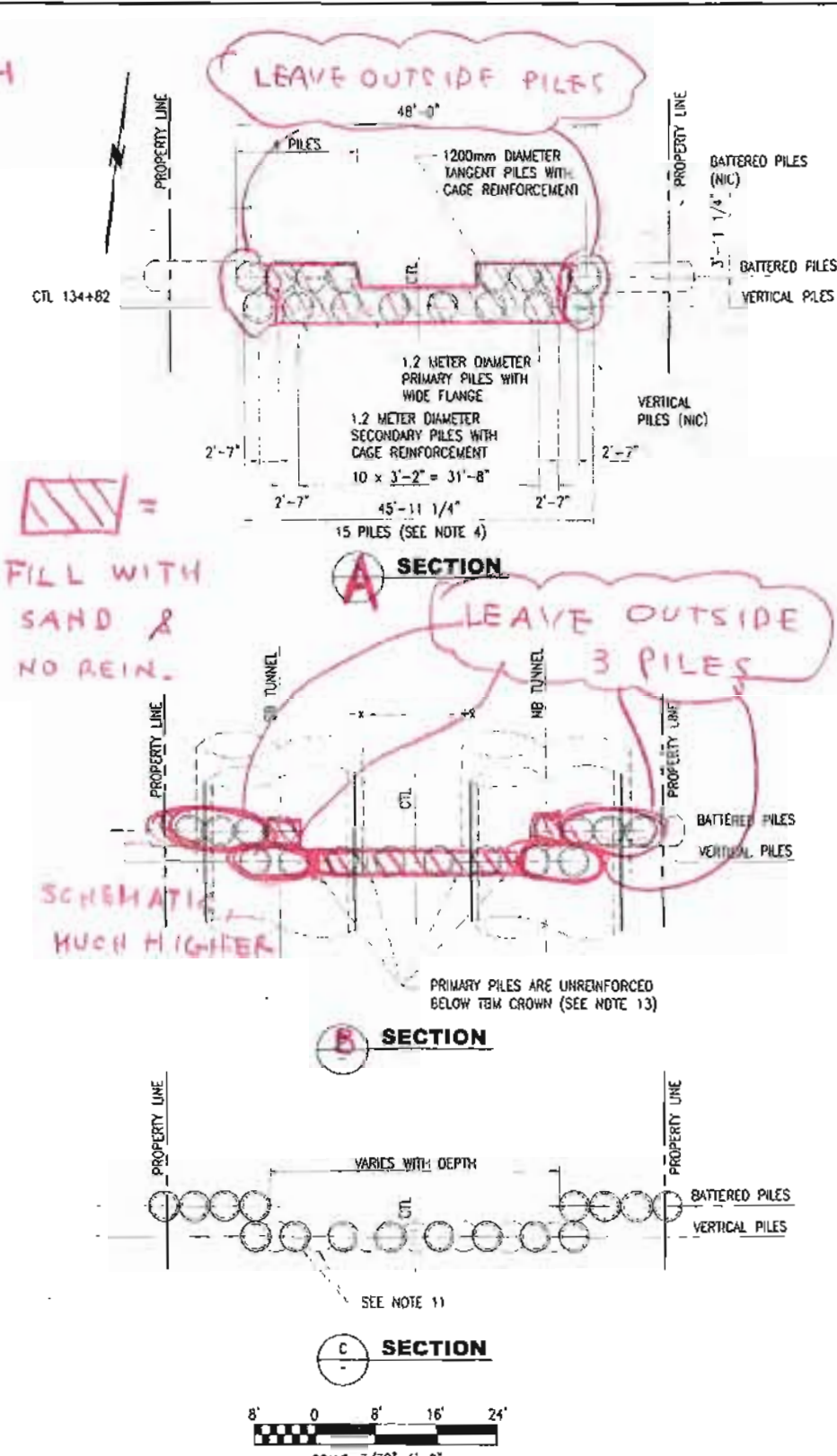
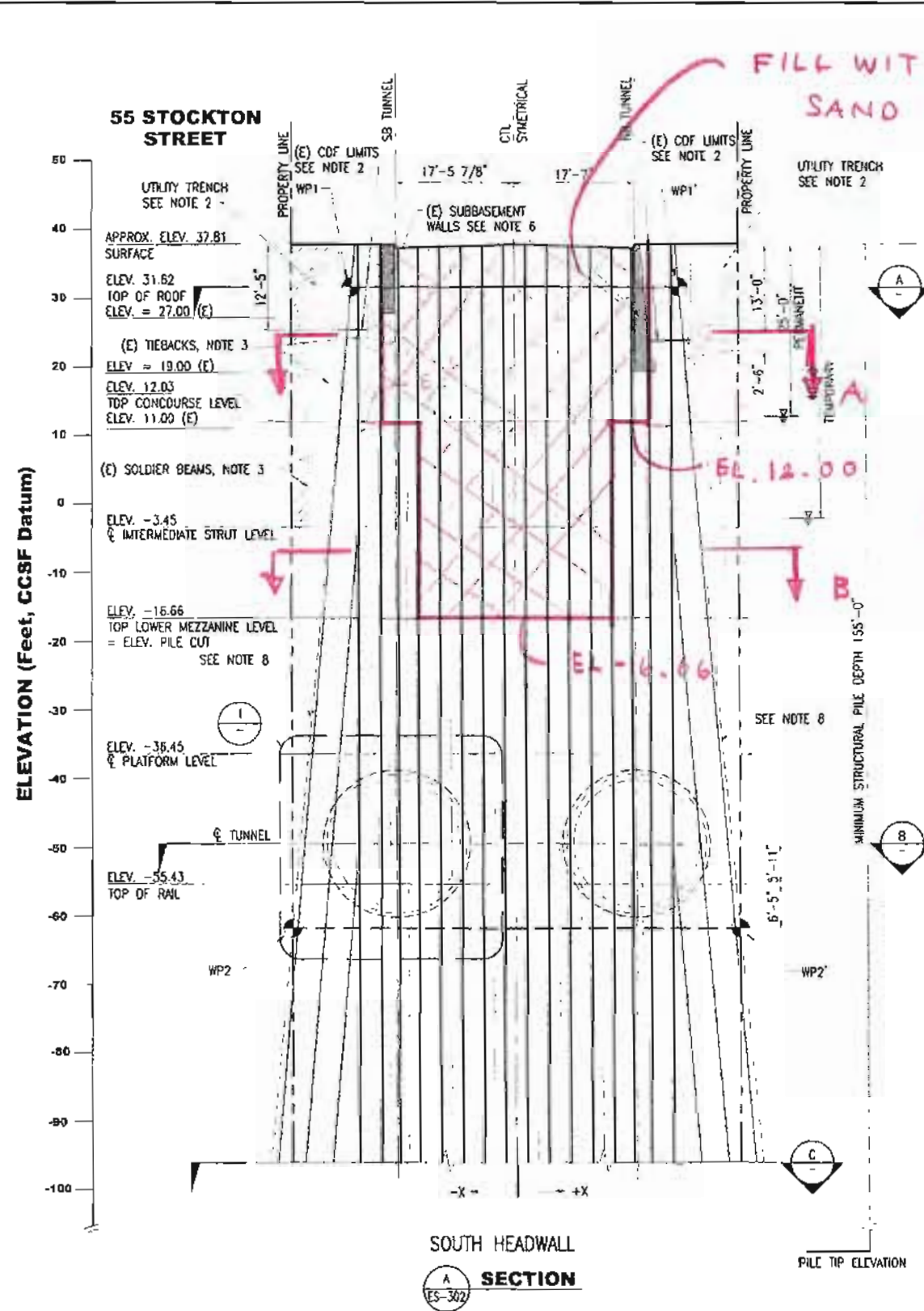


Shahnam Farhangi, Contract Administrator
SFMTA Representative

8-23-12

Date

\\s6nas003.muni.sfgov.org\m5441\finalDesign\Drawing-821\3-Structural\Excavation and Ground Support\Sheet Files CP03\M54423ES305.dwg Imarasig Mon Jan 31 2011 2:25 pm ES-305



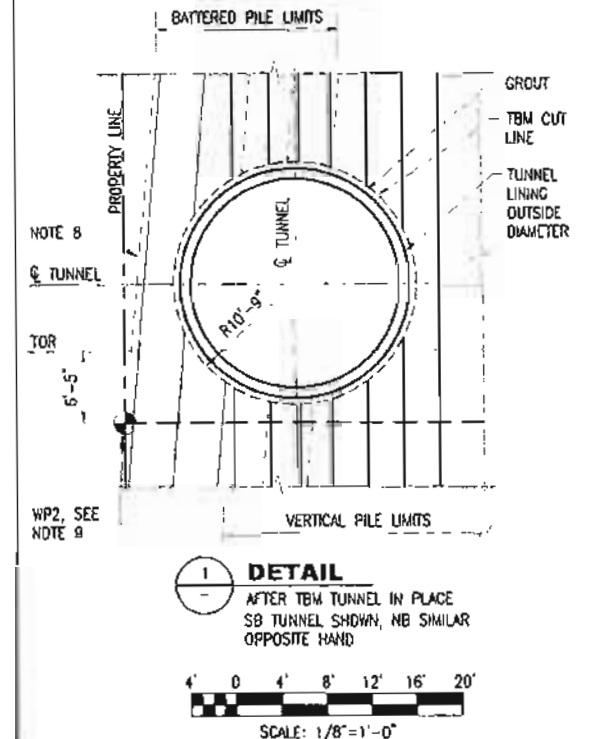
- NOTES:**
- FOR GENERAL NOTES REFER TO DRAWING ES-301 AND FOR CONSTRUCTION SEQUENCE REFER TO DRAWING ES-303
 - (E) UTILITY TRENCH AND (E) COF LIMITS SHOWN SCHEMATICALLY ONLY, FOR DETAILS REFER TO CONTRACT NO. 1251 DRAWINGS.
 - (E) SOLDIER BEAMS AND (E) TIEBACKS ARE LOCATED AT 55 STOCKTON STREET, SEE ES-302 FOR REFERENCE TO THE PLAN. (E) SOLDIER BEAMS AND (E) TIEBACKS ARE SHOWN SCHEMATICALLY ONLY. CONTRACTOR TO VERIFY AND REMOVE WITHIN EXCAVATION AREA.
 - LOCATION OF THE PILES SHOWN ARE THEORETICAL AND DO NOT INCLUDE DRILLED SHAFT PLACEMENT TOLERANCES.
 - DRILLING TOLERANCES SHALL BE WITHIN 0.75% OF THE PILE CENTER LENGTH
 - (C) SUBBASEMENT WALLS SHOWN SCHEMATICALLY ONLY. FOR DETAILS REFER TO AS BUILT DRAWINGS.
 - CONTRACTOR TO DETERMINE ACTUAL LOCATION OF THE INSTALLED PILES AND INCLUDE ON AS BUILT DRAWINGS.
 - THE LINE AS SHOWN DEPICTS MAXIMUM OUTWARD POSITION OF THE PILE CONTRACTOR NOT TO ENCRoACH PROPERTY LINE WITH PILE INSTALLATION ABOVE WP2 AND WP2'.
 - FOR TBM TUNNEL, GROUTING AND WATERPROOFING DETAILS SEE S1 DRAWINGS.
 - FOR REINFORCEMENT DETAIL OF PILES SEE DRAWINGS ES-310 THROUGH ES-313.
 - JET GROUTING NOT SHOWN FOR CLARITY. SEE DRAWING ES-307 FOR DETAILS
 - WIDE FLANGE REINFORCEMENT OF THE PILE ENDS ABOVE TUNNEL CROWN WHERE NOTED. FOR DETAILS SEE ES-313.

LEGEND:

WP1 OUTSIDE EDGE OF THE BATTERED PILE AND TOP OF ROOF ELEVATION
 WP2 OUTWARD LIMIT OF THE PILE

PILE LAYOUT LIMITS

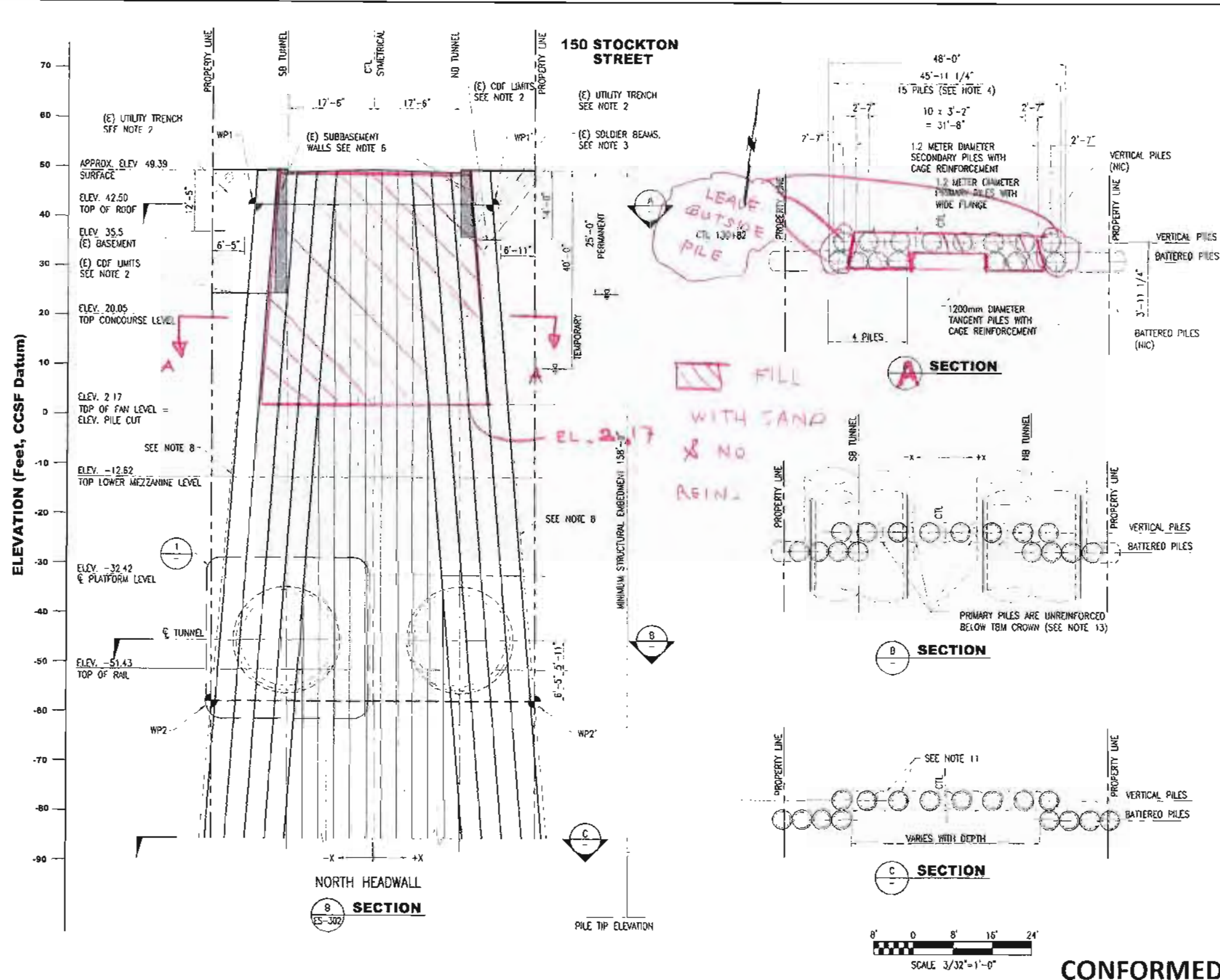
WP	X	ELEV.
1	-24'-0"	31.62
1'	+24'-0"	31.62
2	-32'-8"	-61.88
2'	+32'-8"	-61.88



CONFORMED

01/21/2011 ISSUED FOR BD DATE: _____ LEAD: _____ 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85 90 95 100	Central Subway (CL) 1252 	PROJECT: T. ANDOGIUS DESIGNER: D. PRUITT CHECKER: H. BARROLO APPROVED: R. EDWARDS DATE: JAN 21 2011	CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY APPROVED: _____ EXECUTIVE DIRECTOR/CEO	THIRD STREET LIGHT RAIL PROGRAM PHASE 2 - CENTRAL SUBWAY TUNNELS EXCAVATION AND GROUND SUPPORT UMS STATION SOUTH HEADWALL GEOMETRY	CONTRACT NO. 1252
					SHEET NO. CL-18174

\\sv6nos003.muni.sfgov.org\m544.1\FinalDesign\Drawing-821\3-Structural\Excavation and Ground Support\Sheet Files CPO3\M5442JES306.dwg tmarosig Mon Jan 31, 2011 - 2:35 pm ES-306

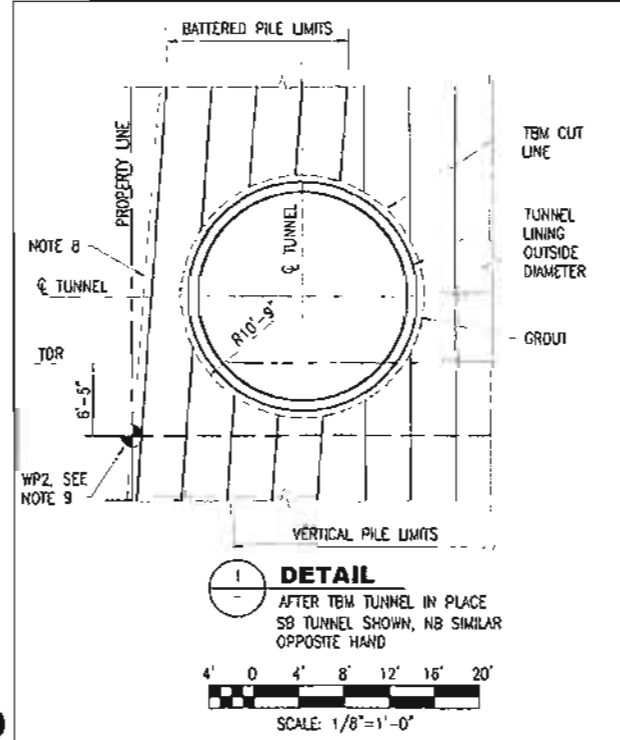


- NOTES:**
- FOR GENERAL NOTES REFER TO DRAWING ES-301 AND FOR CONSTRUCTION SEQUENCE REFER TO DRAWING ES-303.
 - (E) UTILITY TRENCH AND (E) CDF LIMITS SHOWN SCHEMATICALLY ONLY, FOR DETAILS REFER TO CONTRACT NO. 1251 DRAWINGS
 - (E) SOLDIER BEAMS ARE LOCATED AT 150 STOCKTON STREET, SEE ES-302 FOR REFERENCE TO THE PLAN. (E) SOLDIER BEAMS ARE SHOWN SCHEMATICALLY ONLY. CONTRACTOR TO VERIFY AND REMOVE WITHIN EXCAVATION AREA.
 - LOCATION OF THE PILES SHOWN ARE THEORETICAL AND DO NOT INCLUDE DRILLED SHAFT PLACEMENT TOLERANCES
 - DRILLING TOLERANCES SHALL BE WITHIN 0.75% OF THE PILE CENTER LENGTH
 - (E) SUBBASEMENT WALLS SHOWN SCHEMATICALLY ONLY. FOR DETAILS REFER TO AS-BUILT DRAWINGS.
 - CONTRACTOR TO DETERMINE ACTUAL LOCATION OF THE INSTALLED PILES AND INCLUDE ON AS BUILT DRAWINGS.
 - THE LINE AS SHOWN DEPICTS MAXIMUM OUTWARD POSITION OF THE PILE. CONTRACTOR NOT TO ENCROACH PROPERTY LINE WITH PILE INSTALLATION ABOVE WP2 AND WP2'.
 - FOR TBM TUNNEL, GROUTING AND WATERPROOFING DETAILS SEE SI DRAWINGS.
 - FOR REINFORCEMENT DETAIL OF PILES SEE DRAWINGS ES-310 THROUGH ES-313.
 - JET GROUTING NOT SHOWN FOR CLARITY. SEE DRAWING ES-307 FOR DETAILS.
 - WIDE FLANGE REINFORCEMENT OF THE PILES ENDS ABOVE TUNNEL CROWN WHERE NOTED. FOR DETAILS SEE ES-313.

- LEGEND:**
- WP1 OUTSIDE EDGE OF THE BATTERED PILE AND TOP OF ROOF ELEVATION
 - WP2 OUTWARD LIMIT OF THE PILE

PILE LAYOUT LIMITS

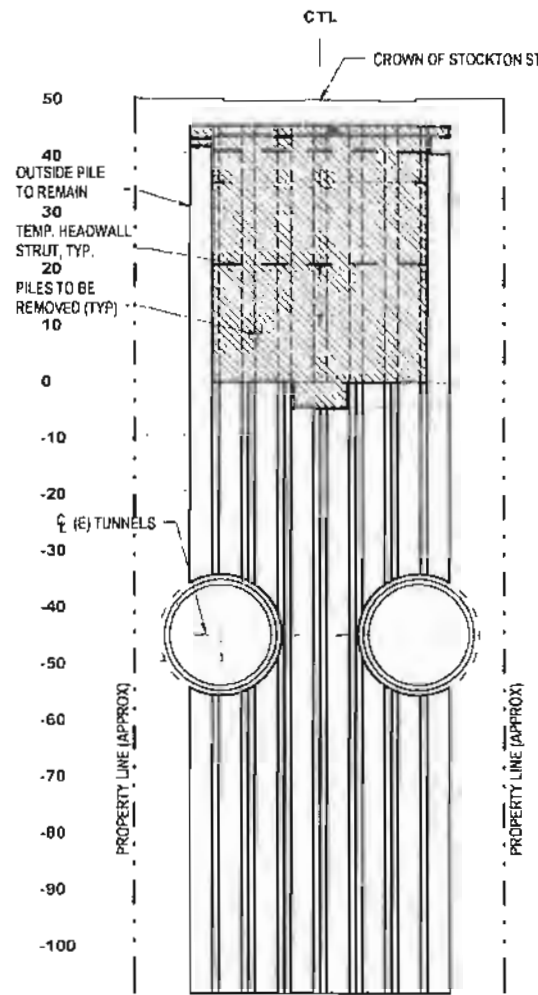
WP	X	ELEV.
1	-24'-0"	42.50
1'	+24'-0"	42.50
2	-32'-8"	-57.85
2'	+32'-8"	-57.85



CONFORMED

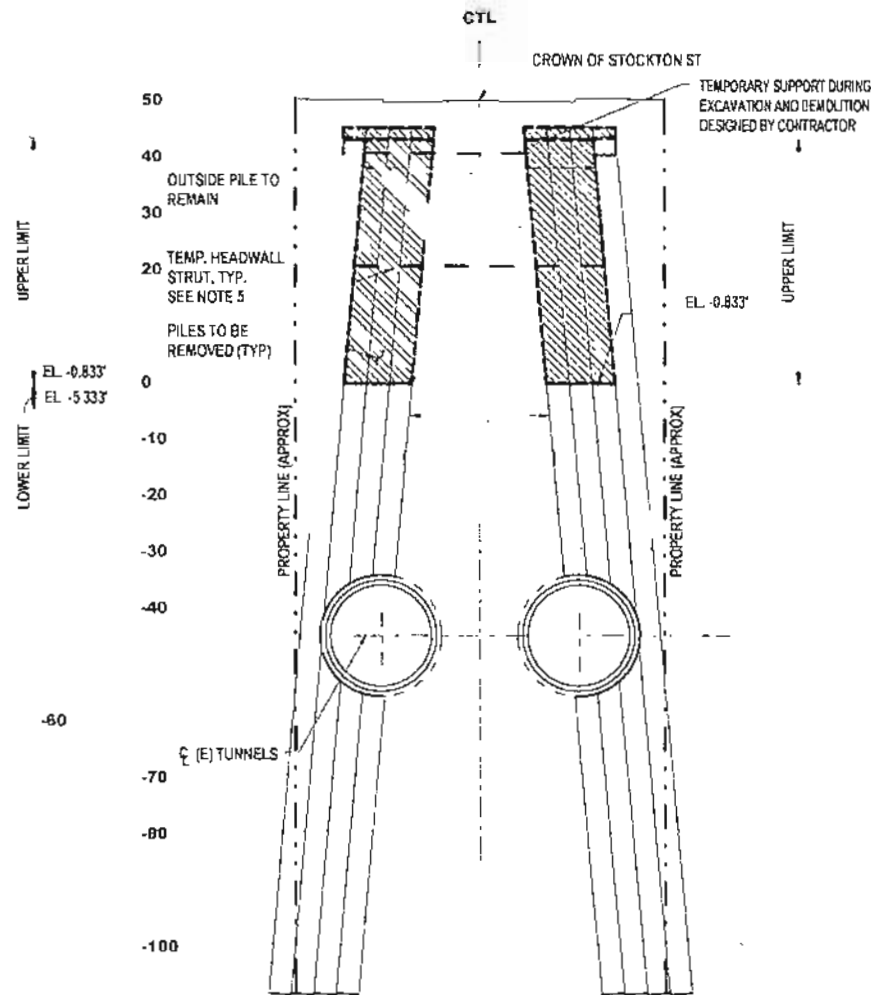
			CITY AND COUNTY OF SAN FRANCISCO MUNICIPAL TRANSPORTATION AGENCY APPROVED EXECUTIVE DIRECTOR/CEO	THIRD STREET LIGHT RAIL PROGRAM PHASE 2 - CENTRAL SUBWAY TUNNELS	CONTRACT NO. 1252
				EXCAVATION AND GROUND SUPPORT UMS STATION NORTH HEADWALL GEOMETRY	DRAWING NO. CL-18175 SHEET NO. ES-306 OF 298

2/18/2012 8:04:52 AM



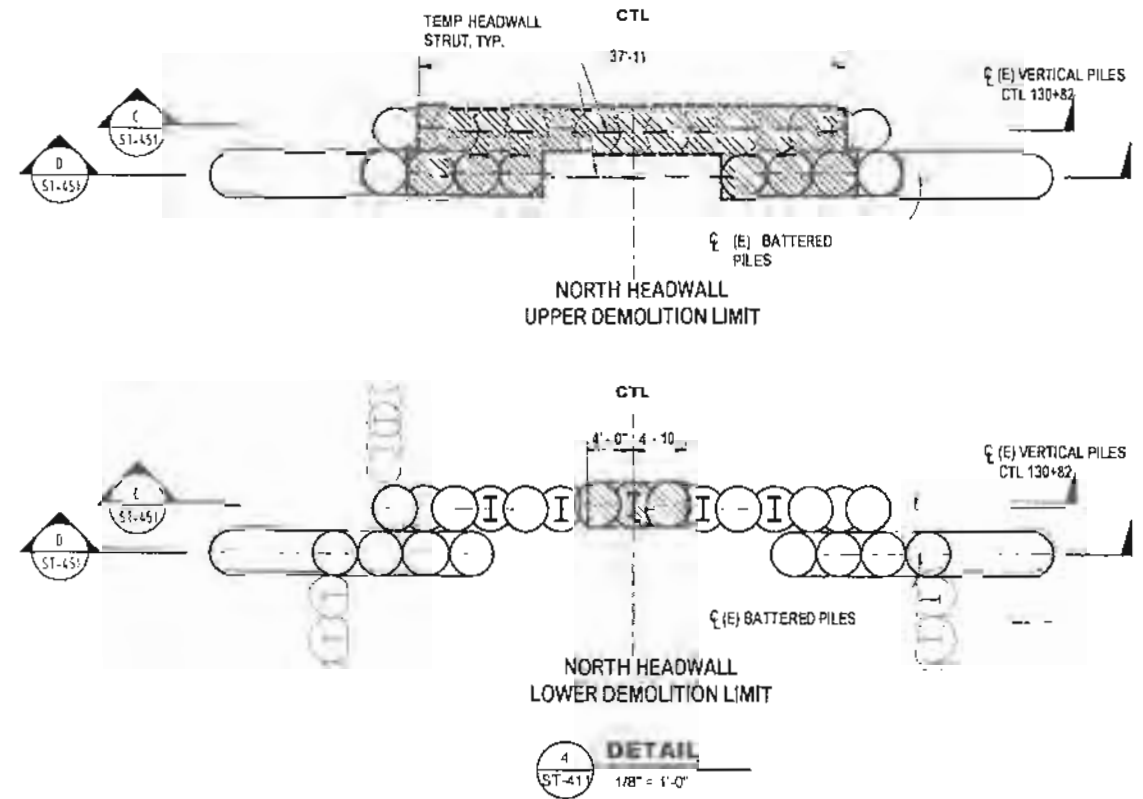
(E) NORTH HEADWALL VERTICAL PILES

C SECTION
ST-451 1/16" = 1'-0"



(E) NORTH HEADWALL BATTERED PILES

D SECTION
ST-451 1/16" = 1'-0"

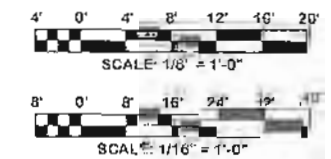


NOTES:

1. FOR TUNNEL LINER REMOVAL SEE ES DRAWINGS.
2. FOR HEADWALL DETAILS AND DIMENSIONS SEE CONTRACT NO. 1252.
3. SEE NOTES ON DRAWING ST-411 & ST-431.
4. SEE ST-787 FOR HEADWALL DETAILS AND SUPPORT.
5. DEMOLISH ONE LEVEL AT A TIME AND CONTINUE TO NEXT LEVEL AFTER WALE AND STRUT BRACING HAS BEEN INSTALLED. SEE ES DRAWINGS. BRACING LAYOUT IS SUGGESTED, TO BE DESIGNED BY CONTRACTOR.
6. CONTRACTOR SHALL REPAIR ALL INTRUSIONS, WATER LEAKAGE THROUGH THE PILEW AND CLEAN AND PREPARE SURFACE FOR SHOTCRETING. ENGINEER SHALL INSPECT HEADWALL CONSTRUCTION BEFORE APPLICATION OF SHOTCRETE.
7. CONTRACTOR SHALL PROVIDE AS-BUILT SURVEY, CONDITION, PHOTOGRAPHS AND ANY AREAS REQUIRING REPAIR.

LEGEND:

DEMOLITION



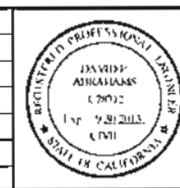
C:\Users\okumaska\Documents\GIS Structural okumaska.rvt

DATE	DESCRIPTION	BY	CHECKED	APPROVED
02/15/2012	ISSUED FOR BID			

central subway design group

PB AMERICAS, INC.

DESIGNED: D. ABRAHAMS
 CHECKED: L. REYES
 CHECKED: C. LU
 REVIEWED: D. YAVORSKY
 REVISIONS: A. READ
 APPROVED: B. EDWARDS
 DATE: 02/15/2012



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

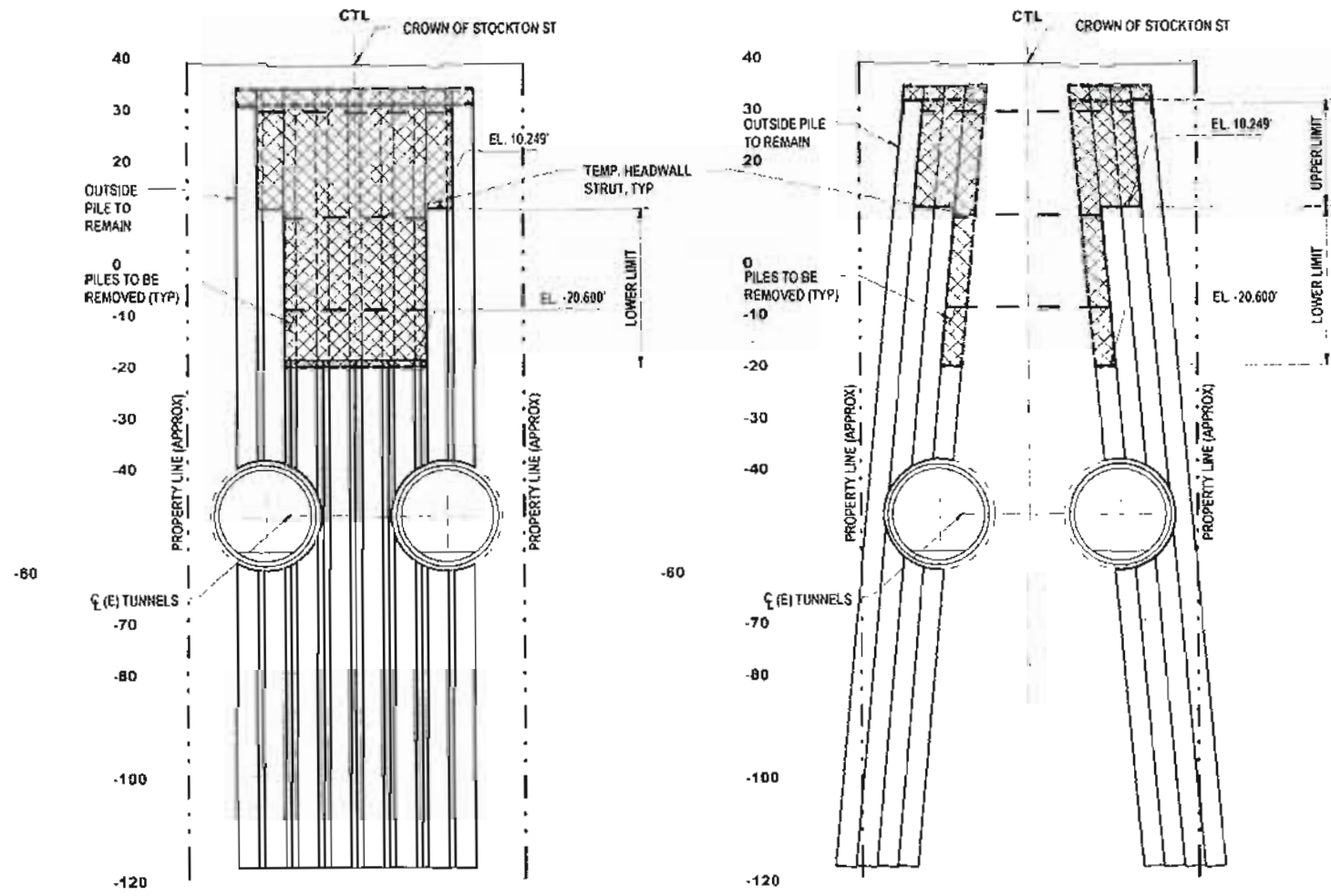
DIRECTOR OF TRANSPORTATION

THIRD STREET LIGHT RAIL PROGRAM
 PHASE 2 - CENTRAL SUBWAY
 UNION SQUARE/MARKET STREET STATION

STRUCTURAL DEMOLITION NORTH HEADWALL

CONTRACT NO.	1253
BY/FA CONTROL NO.	CL-18420
DRAWING NO.	ST-451
REVISION	0

28/01/2 8:05:15 AM

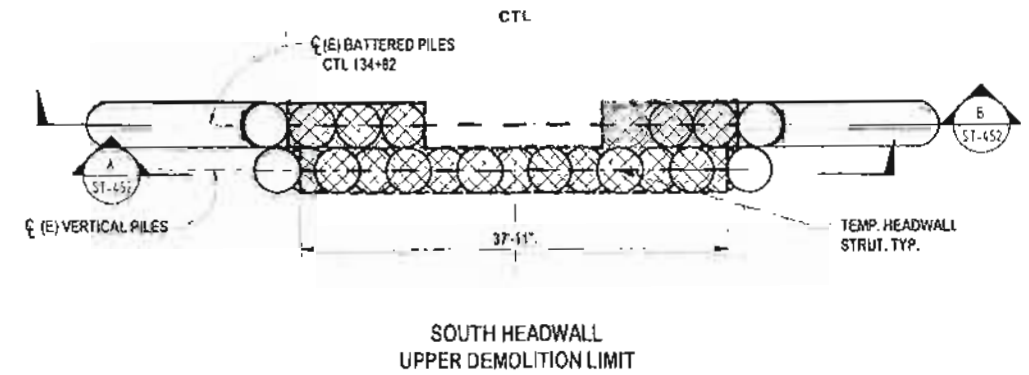


(E) SOUTH HEADWALL VERTICAL PILES

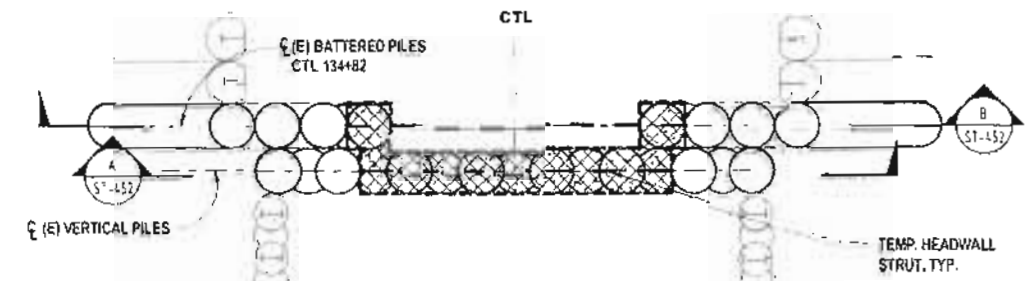
A SECTION
ST-452 1/16" = 1'-0"

(E) SOUTH HEADWALL BATTERED PILES

B SECTION
ST-452 1/16" = 1'-0"



SOUTH HEADWALL UPPER DEMOLITION LIMIT



SOUTH HEADWALL LOWER DEMOLITION LIMIT

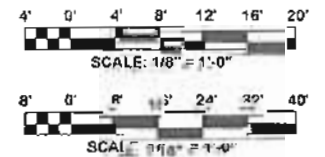
5 DETAIL
ST-411 1/8" = 1'-0"

NOTES:

1. SEE HEADWALL DEMOLITION NOTES ON ST-451.

LEGEND:

DEMOLITION



C:\usr\local\umost\Documents\UIMS Structural okumoaka.rvt

DATE	ISSUED FOR	BY	CHECKED	APPROVED
02/15/2012	ISSUED FOR BIDDING			

Central Subway

PB PIB AMERICAS, INC.

DESIGNED BY	D. ABRAHAMS
DRAWN BY	L. REYES
CHECKED BY	C. LIU
PROJECT MANAGER	D. YAVORSKY
RECOMMENDED BY	A. READ
APPROVED BY	R. EDWARDS
DATE	02/15/2012



CITY AND COUNTY OF SAN FRANCISCO
MUNICIPAL TRANSPORTATION AGENCY

APPROVED

DIRECTOR OF TRANSPORTATION

THIRD STREET LIGHT RAIL PROGRAM
PHASE 2 - CENTRAL SUBWAY
UNION SQUARE/MARKET STREET STATION

STRUCTURAL DEMOLITION SOUTH HEADWALL

CONTRACT NO.	1253
DATA CONTROL NO.	CL-18421
DRAWING NO.	ST-452
SHEET NO.	0

CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Trend Log

Contract Cost Estimate and Allocated Contingencies									
Item #	Date Initiated	CMB No.	Change Description	Change Type	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
					Approval Action	Approval Date			
CONSTRUCTION TRENDS									
Contract 1250 - Utilities Relocation #1 (Portal & MOS)									
1250-0001	04/15/10	081-0001	Delete Option MF-OPT1 "Fire Protection Sprinkler System"	1	N/A		(50,000)	Cleared City Attorney's Office; to Shahnam for execution. [In "Current Forecast" - Sep2010 Cost Report.] COMPLETE, NO FURTHER ACTION; CMOD #1	CMOD #1 Approved
1250-0002	05/07/10	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 reimbursement from SFPUC Sewer. COR #2-\$34,135; COR #5-\$73,039 COMPLETE, NO FURTHER ACTION; CMOD #2	CMOD #2 Approved
1250-0003	05/28/10	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	07/02/10	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	04/20/10	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	04/29/10	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	10/06/10	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	10/06/10	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	10/06/10	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	

- 1 - Owner Directed Change in Scope
- 2 - Unforeseen Conditions
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Item #	Date Initiated	Change Description	Change Type	CMB No.	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
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1250-0010	10/06/10	081-0010	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. (\$48,181) 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	10/06/10	081-0011	2				-0-	This change order has been incorporated in CMOD #16 (Trend #30) COMPLETE, NO FURTHER ACTION; CMOD #16	CMOD #16 Approved
1250-0012	10/06/10	081-0012	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	10/06/10	081-0013	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	10/06/10	081-0014	2				-0-	This change order has been incorporated in CMOD #16 (Trend #30) COMPLETE, NO FURTHER ACTION; CMOD #16	CMOD #16 Approved
1250-0015	10/06/10	081-0015	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	10/06/10	081-0016	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	10/06/10	081-0017	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	10/06/10	081-0018	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	10/06/10	081-0019	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 10/7/10. 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	10/06/10	081-0020	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
1250-0021	10/06/10	081-0021	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	10/06/10	081-0022	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

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1250-0023	10/06/10	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	10/06/10	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	10/06/10	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	10/06/10	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	10/06/10	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	12/08/10	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	12/08/10	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	12/08/10	081-0030	Supplement bid item GE-4 "Allowance for differing site conditions" related to the installation of publicly owned facilities only (sewer, water, AWSS, 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	12/08/10	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	
1250-0032	12/08/10	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	12/08/10	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	12/08/10	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 Al Herce of DPT) is forthcoming; RE estimated this bill to be about \$60,000.00. COMPLETE, NO FURTHER ACTION; CMOD #18	CMOD #18 Approved

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1250-0035	12/08/10	081-0035 Premium cost for requesting contractor to accelerate work on 4th Street between Howard and Folsom	2					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	12/08/10	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) \$67,728; 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		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); -0- 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	12/08/10	081-0037 Compensation for loss of production, inefficiency and disruption of work due to archaeological discovery	2					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	03/18/11	081-0038 Project Delay due to archaeological discovery and PG&E Issues.	2					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 -0- 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. Subsequently, 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.	
1250-0039	05/18/11	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	05/18/11	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	05/18/11	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	05/25/11	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	10/06/10	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	08/03/11	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

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Contract 1250 Totals										
								+2,694,211	<p>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.</p> <p>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.</p> <p>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</p>	
Contract 1251 - Utilities Relocation #2 (UMS)										
1251-0001	03/18/11	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-	<p>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.</p> <p>COR #1</p> <p>COMPLETE, NO FURTHER ACTION; CMOD #4</p>	CMOD #4 Approved
1251-0002	03/18/11	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	<p>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.</p> <p>COR #4; PCC #1</p> <p>COMPLETE, NO FURTHER ACTION; CMOD #2</p>	CMOD #2 Approved
1251-0003	03/18/11	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	<p>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.</p> <p>COR #9, PCC #2</p> <p>COMPLETE, NO FURTHER ACTION; CMOD #1</p>	CMOD #1 Approved
1251-0004	04/06/11	082-0004	Changes to Neiman Marcus secondary enclosure wall due to various differing site conditions.	2	CMB-0031	Agree	04/13/11	+189,584	<p>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.</p> <p>COR #8</p> <p>COMPLETE, NO FURTHER ACTION; CMOD #3</p>	CMOD #3 Approved
1251-0005	04/06/11	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	<p>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 \$77,892.53 (Synergy FA Request) + \$25,000 (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.</p> <p>RE negotiating</p> <p>COMPLETE, NO FURTHER ACTION</p>	CMOD #24 Approved
1251-0006	04/20/11	082-0006	Design changes to utilities on Stockton street between Post and Geary	1	CMB-0039	Agree	06/08/11	+398,624	<p>Due to changes to the limits of the UMS Station on Stockton Street between Post and Geary, the original utility design has changed.</p> <p>COR #24, PCC #4</p> <p>COMPLETE, NO FURTHER ACTION; CMOD #5</p>	CMOD #5 Approved
1251-0007	04/20/11	082-0007	Design changes to utilities on Ellis Street	1	CMB-0049	Agree	08/24/11	(434,957)	<p>Due to changes to the limits of the UMS Station on Ellis street, the original utility design has changed.</p> <p>PCC #5</p> <p>COMPLETE, NO FURTHER ACTION; CMOD #5</p>	CMOD #5 Approved

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1251-0008	04/20/11	082-0008	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	04/20/11	082-0009	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	05/25/11	082-0010	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	06/22/11	082-0011	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	07/06/11	082-0012	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
1251-0013	07/06/11	082-0013	7				-0-	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	07/21/11	082-0014	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	08/03/11	082-0015	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	08/03/11	082-0016	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	08/03/11	082-0017	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 (\$25,000) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #7	CMOD #7 Approved
1251-0018	08/03/11	082-0018	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

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1251-0019	08/03/11	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 vault #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	09/07/11	082-0020	Change PG&E conduit material from PVC to GRS on west side of Stockton between Geary and Post	6	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	09/07/11	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 is captured in Trend #31 or CMod #12. CLOSED; NO FURTHER ACTION. Cost for this trend is captured in Trend #31/CMod #12	
1251-0022	09/07/11	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	09/07/11	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'l 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	09/07/11	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	09/07/11	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	09/14/11	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	09/20/11	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

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1251-0028	10/18/11	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	10/26/11	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	10/26/11	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	10/26/11	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
1251-0032	11/08/11	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	11/23/11	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	01/10/12	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	01/11/12	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	01/11/12	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.	

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1251-0037	01/17/12	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	01/04/12	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 \$29,268. COMPLETE, NO FURTHER ACTION; CMOD #22	CMod #22 Approved
1251-0039	01/17/12	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
1251-0040	02/15/12	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	02/15/12	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	02/15/12	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	02/15/12	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) COMPLETE, NO FURTHER ACTION; CMOD #23	CMOD #23 Approved
1251-0044	02/15/12	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	02/15/12	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	03/06/12	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

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1251-0047	04/10/12	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	04/10/12	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. CLOSED; NO FURTHER ACTION.	
1251-0049	04/10/12	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
1251-0050	04/10/12	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	04/10/12	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	04/10/12	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 Stockton Street) not shown in the contract drawings. COMPLETE, NO FURTHER ACTION; CMOD #28	CMOD #28 Approved
1251-0053	04/10/12	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	04/17/12	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	04/17/12	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	05/31/12	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	05/31/12	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

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1251-0058	05/31/12	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	06/26/12	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	06/26/12	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	06/26/12	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 SFMTA (\$7,424) through the Form B process. COMPLETE, NO FURTHER ACTION; CMOD #24	CMOD #24 Approved
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 (\$56,458) 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 approval - see Trend CN1251 #'s 50, 74 & 75) COMPLETE, NO FURTHER ACTION; CMOD #20	CMOD #20 Approved

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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 punchlist, 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 sewer MH, SFWD connection and restoration on O'Farrell 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
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	08/08/12	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	08/08/12	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	08/08/12	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	08/08/12	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

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1251-0076	08/08/12			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 CN1251#s 47, 58 & 78) COMPLETE, NO FURTHER ACTION; CMOD #26	CMOD #26 Approved
1251-0077	09/12/12			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
1251-0078	09/12/12			Unforeseen conditions encountered during excavation and installation of OCS poles along Mason and 5th Streets.	2	CMB-0082	Agree	10/31/12	+27,645	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	09/12/12			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	09/12/12			Additional work related to installation of AT&T Vaults 5828, 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	09/13/12			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 Totals									+3,962,032	Total Changes to the contract n 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	Deceision Date	Actual/Forecast	Comments	Contract Modification No.
1252-0001	04/23/12	1		AWSS Conflict w/ Low Pressure Water	6	CMB-0091	Agree to Merit Agree to Cost	10/10/12 01/16/13	+16,907	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 01/16/13 - CMB - NOT TO EXCEED Amount \$16,900	12x

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1252-0002	04/23/12	2	AWSS Add. Tie-Rods 4th-Harrison	6	CMB-0086	Agree to Merit Agree to Cost	10/10/12 12/19/12	+58,000	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-foot 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 - CMB - NOT TO EXCEED Amount \$58,000	12x
1252-0003	04/23/12	3	AT&T Vault Conflict-4th & Harrison	6	CMB-0092	Agree to Merit Agree to Cost	10/10/12 01/16/13	+21,089	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 sewer 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. AT&T agreed to reimburse SFMTA (\$21,089) through the Form B process. 10/10/12 - Merit info presented to CMB - Agreed 01/16/13 - CMB - NOT TO EXCEED Amount \$21,089	12x
1252-0004	05/18/12	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 -CMB - NOT TO EXCEED Amount \$7,600	10
1252-0005	06/06/12	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. 1/16/13 - Merit info presented to CMB - Agreed 01/16/13 - CMB - NOT TO EXCEED Amount \$10,000	5
1252-0006	04/23/12	8	TIA - Associated w/ COR 001, COR 002, and COR 003	6		Agree to Merit	10/10/12	+269,904	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	12x
1252-0007	06/12/12	9	MOS - Live Utilities: PGE, AT&T, and SFWD 8" Water Line extra kill hole location	2		Agree to Merit	11/14/12	-0	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 merit presented to CMB.	0
1252-0008	06/19/12	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	+4,920	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 -CMB - NOT TO EXCEED Amount 4,919.54	3
1252-0009	07/02/12	11	MOS - Traffic Signal line re-route south headwall	6	CMB-0095	Agree to Merit Agree to Cost	1/16/13	+37,500	After potholing Synergy discovered several traffic lines which were in the proposed location of the south MOS headwall. Traffic Lines re-routed. 01/16/13 -CMB - NOT TO EXCEED Amount \$37,500	13x
1252-0010	01/00/00	12	MOS - Archaeological Standby North Headwall	2	CMB-0096	Agree to Merit Agree to Cost	12/11/12 01/16/13	+16,892	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 -CMB - NOT TO EXCEED Amount \$16,892.26	6
1252-0011	07/06/12	13	MOS - SL conduit from PG&E vault @ north headwall	6		Agree to Merit	11/28/12	+10,903	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	0

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1252-0012	06/26/12	15	LB - Pre-Excavation for Slurry Walls	2	CMB-0087	Agree to Merit Agree to Cost	11/28/12 12/19/12	+96,000	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 - - CMB - NOT TO EXCEED Amount \$96,000	21x
1252-0013	07/02/12	17	MOS - Standby Time @ south headwall due to live TS lines	6		Agree to Merit	11/21/12	-0-	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.	13x
1252-0014	Closed	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. CLOSED; NO FUTHER ACTION	0
1252-0015	06/22/12	20	PROJECT WIDE - Utility Demo limit reduction credit	5					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. Closed - SFMTA to BIH/SPM "Build per Plan".	0
1252-0016	04/02/12	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.	8
1252-0017	07/10/12	22	MOS - Asbestos Pipe at north headwall	2	CMB-0090	Agree to Merit Agree to Cost	12/12/12 01/09/13	+5,705	Upon excavation of the MOS north headwall, BIH's subcontractor Synergy Project Management (SPM) uncovered fryable asbestos-laden transite pipe. 12/12/12 - Merit info presented to CMB - Agreed 01/09/13 - CMB - NOT TO EXCEED Amount \$6,000	5
1252-0018	07/10/12	23	MOS - Brick Wall #2 discovered @ north headwall	2		Agree to Merit	12/06/12	-0-	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 - Merit info presented to CMB - Agreed	0
1252-0019	08/10/12	26	MOS - Asbestos Pipe at south headwall	2	CMB-0085	Agree to Merit Agree to Cost	12/12/12 01/09/13	+30,000	Transite pipe was discovered during MOS south headwall excavation. 12/12/12 - Merit info presented to CMB - Agreed 01/09/13 CMB - NOT TO EXCEED Amount \$30,000	13x
1252-0020	08/10/12	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 - Merit info presented to CMB - Agreed 01/09/13 CMB - NOT TO EXCEED Amount \$8,600	5
1252-0021	01/00/00	29	MOS - Todco scaffolding reimbursement	2	CMB-0097	Agree to Merit Agree to Cost	12/12/12 01/16/13	+1,718	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 CMB - NOT TO EXCEED Amount \$1,717	3

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1252-0022	Closed	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 crosspassage 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 crosspassage 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.	0
1252-0023	05/30/12	4	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.	0
1252-0024	Closed	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.	0
1252-0025	04/23/12	5	CDF Encasement on 42" RCP	2				+140,596	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.	0
1252-0026	Closed	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.	0
1252-0027	Closed	14	MOS - 76 Gas Station fencing	1					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	0
1252-0028	Closed	16	LB - SPTC delays due to concrete encased 8" sewer	2					Closed. Combined with COR 015. 07/25/12 - Verbal information presented to CMB as a potential change.	0
1252-0029	08/06/12	18	MOS - South Headwall re-design	1				-0-	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.	0
1252-0030	08/02/12	24	Ellis - Utility demolition	3		Agree to Merit	12/06/12	+38,678	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	0
1252-0031	Closed	25	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.	0
1252-0032	08/07/12	28	Ellis asbestos abatement	2		Agree to Merit	12/06/12	+35,386	A steam line containing asbestos was discovered during potholing at the Ellis Street Shaft. 12/06/12 - Merit info presented to CMB - Agreed	13x
1252-0033	-	30	LB - Class 1 Hazardous Material Hauloff	2				+198,276	BIH trucking costs for Class 1 haul off. Also see COR 054 regarding Class 1 Haz material haul off for Phase 2. Cost to be reimbursed by "ES-8". Additional costs hazardous waste allowances.	0
1252-0034	01/00/00	70	LB - Jet Grout Quantity Overrun	4				+768,600	The contract drawings call for the contractor to determine the extent of jet grouting at the launch box. BIH's jet grout quantities are projected to overrun the prescribed bid quantity by up to 40 percent.	0

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1252-0035	01/00/00	unsubmitted	Utility Removal UD-304 and UD-503	6				TBD	RFI 00134 asks whether certain utilities indicated on drawings UD-304 (On Stockton inside limits of future UMS Station) and on UD-503 (On Fourth and Stillman Streets outside limits of Launch Box) may be left in place. Answer: "Confirmed, the utilities in question can be abandoned in place and are not required to be removed. The Engineer will seek an adjustment to Bid Item GB-3 for the elimination of this work."	0
1252-0036	05/17/12	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 No Merit for this change.	0
1252-0037	01/00/00	unsubmitted	DPW permitting potential impacts	7				TBD	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.	0
1252-0038	05/30/12	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 CMB - NOT TO EXCEED Amount \$4,052.17	17x
1252-0039	01/00/00	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.	0
1252-0040	08/23/12		1 PCC No.1 - Revisions to Moscone North Headwall Elevation (Top)	1	CMB-0099	Agree to Cost	1/16/2013	+20,358	SFMTA initiated change to revise headwall elevations to facilitate a change in the roof elevation of MOS station. 01/16/13 CMB - NOT TO EXCEED Amount \$20,500.	7
1252-0041	08/23/12		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.	0
1252-0042	08/24/12	31	Retrieval Shaft - Unmarked 12" Steel Pipe	2		Agree to Merit	01/02/13	+6,007	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	14x
1252-0043	08/31/12	32	LB - Panel W29 Wood Pile	2		Agree to Merit	11/28/12	+81,000	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	19x
1252-0044	09/04/12	33	0 Ret Shaft - 20" Water Line Conflict	2		Agree to Merit	11/14/12	+67,000	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 definid clearly. RE will proceed with scoping the work.	0
1252-0045	09/11/12	34	0 LB - Panel W28 Wood Pile	2				+81,000	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.	19x

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1252-0046	01/00/00	36	0	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.	0
1252-0047	01/00/00	37		UMS - 12" steel pipe removal	3				-0- A 12" steel pipe at the north UMS headwall location interfered with the demolition of other existing UMS utilities. BIH claims the steel pipe was not shown in the contract drawings. Closed due to improper notification.	0
1252-0048	09/07/12	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. 11/28/12 - Merit info presented to CMB - Agreed	15x
1252-0049	01/00/00	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.	0
1252-0050	05/18/12	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. PG&E Utility Reimbursement in the amount of \$1217 01/16/13 - CMB agreed with Evaluation of Merit 01/16/13 CMB - NOT TO EXCEED Amount \$1,245	10
1252-0051	01/00/00	executed		Contract Amendment No. 2	1				(3,040,713) 0	2 Approved
1252-0052	08/17/12	42		LB - Panel W25 Wood Pile	2		Agree to Merit	11/28/12	+116,785 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 - CMB agreed with Evaluation of Merit	19x
1252-0053	08/22/12	43		LB - Panel W30 Wood Pile	2		Agree to Merit	11/28/12	+47,185 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	19x
1252-0054	09/19/12	44		MOS - 16" steel pipe removal @ southeast headwall	3		Agree to Merit	12/06/12	+1,933 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	15x
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.	0
1252-0056	09/25/12	46		UMS - Unmarked steel pipes (6", 12", 14") / Duct Bank	6	CMB-0103	Agree to Merit Agree to Cost	12/06/12 1/23/2013	+7,461 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. 12/20/12 - CMB agreed with Evaluation of Merit 01/23/13 - CMB - NOT TO EXCEED Amount \$7461.	16x

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1252-0057	09/25/12	47	Ret Shaft - Credit for reduced AT&T conduits	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 agreed with Evaluation of Merit 01/23/13 - Not to Exceed \$2,201.	14x
1252-0058	09/28/12	48	UMS - Unmarked steel pipes (6", 12", 14") / Duct Bank	6		Agree to Merit	12/06/12	+15,115	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	16x
1252-0059	01/00/00	49	Ret Shaft - unmarked 10" steel pipe/duct bank	7				+1,500	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.	0
1252-0060	10/10/12	50	UMS - 3'x5' brick sewer at south headwall	6		Agree to Merit	12/12/12	+2,848	BIH/SFMTA to finalize labor rates 12/21/12 - CMB agreed with Evaluation of Merit	14x
1252-0061	10/11/12	51	Ret Shaft - Tree trimming debris haul off	3				+26,000		0
1252-0062	09/07/12	53	Ret Shaft - 12" steel pipe removal at Union/Columbus	7				-0	Closed.	0
1252-0063	-	54	Ret Shaft - Elevation design conflict (30" low psi water / sewer)	2				+115,915	Cost to be reimbursed by "ES-8". Additional costs hazardous waste allowances.	0
1252-0064	10/10/12	4	PCC No. 4 - Ret shaft sewer pipe material change	1				+153,740	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, ½-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.	0
1252-0065	12/18/12	57	UMS - Tree Removal	1				+13,346	SFMTA is directing removal of a tree at at the northeast corner of Stockton and O'Farrell St.	0
1252-0066	10/10/12	59	PCC No. 5 - Ret Shaft Water Dist. Pipe Material Change	1				(31,012)	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..	0
1252-0067	10/26/12	58	Ret Shaft - Additional 10" steel pipe removal	6		Agree to Merit	12/12/12	+851	Work is a continuation of work performed in COR 047. 12/12/12 - CMB agreed with Evaluation of Merit	14x
1252-0068	10/10/12	3	PCC No. 3 - General Detour Signage	1				+22,181	BIH/SFMTA to finalize labor rates 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. The 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.	0
1252-0069	11/08/12	6	PCC No. 6 - Supplemental instrumentation of BART tunnel lining.	1				+657,884	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).	0

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1252-0070	01/00/00	unsubmitted	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.	0
1252-0071	11/07/12	61	LB - Panel P-17 Buried Obstruction	2		Agree to Merit	01/02/13	+1,473	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 with Evaluation of Merit	20x
1252-0072	11/14/12	62	LB - Panel P-9 Buried Obstruction	2		Agree to Merit	01/23/13	+150,000	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 Merit	20x
1252-0074	11/16/12	65	LB - Panel P-12 Buried Obstruction	2		Agree to Merit	01/23/13	+150,000	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.	20x
1252-0075	11/19/12	66	Retrieval Shaft - Unmarked 12" Steel Pipe	2		Agree to Merit	01/23/13	+4,251	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.	14x
1252-0076	11/19/12	67	LB - Panel P-10 Buried Obstruction	2		Agree to Merit	01/23/13	+18,000	CJA-NCC discovered a buried obstruction or concrete encased clay sewer pipe, approximately 7' below the top of the guide wall while excavating slurry diaphragm wall panel P-10 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 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	20x
1252-0077	12/21/12		PCC No. 7 Bart Temporary Annex Wall	1	CMB-0106	Agree to Cost	1/30/2013	+15,500	SFMTA is requesting Contractor construct temporary wall for Bart Annex for SFMTA use. 01/30/13 - CMB - NOT TO EXCEED Amount \$15,380	11
1252-0078	12/28/12		UMS Headwall - Unknown Buried Pipe	1	CMB-0100	Agree to Merit Agree to Cost	1/16/2013 1/16/2013	+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 - CMB - NOT TO EXCEED Amount \$75,00	4
1252-0079	01/09/10		Relocation of TBM Retrieval Shaft	1				-0-	Modify Bid Item ST -4 Construction of Base Bid Permanent Retrieval Shaft to relocate the TBM retrieval Shaft to 1731-1741 Powell Street - 02/20/13 - COST IS NOT REFLECTED HERE - SCOPE IS FUNDED BY OTHER CPT 690 \$\$\$\$	0
1252-0080	12/19/12	0	Segment Measuring Frequency	7				(1,300,000)	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.	0
1252-0081	09/09/12	0	F21 and Old Navy Instrumentation Proposal	7				-0-	Wang Technology is proposing instrumentation changes to the Liquid Level Sensors and Tilt Beams in the basements of Old Navy and Forever 21.	0

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1252-0082	01/14/13	68	UMS – AT&T Vault Walkway @ N Headwall	2		Agree to Merit	01/16/13	+2,000	SPM discovered a 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 a 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" \$2K.	0
1252-0084	01/24/13		PCC 11, FA CO 2 UMS – Cap and Remove 48" Steel pipe	1	CMB-0105	Agree to Cost	01/23/13	+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 - CMB - NOT TO EXCEED Amount \$150,000	9
1252-0085	01/24/13	71	LB – Ramp Excavation Wood Piles Obstruction	2				+800	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.	0
1252-0086	02/08/13	72	Ellis Shaft Jet Grout Obstruction	2				+54,000	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.	0
1252-0087	02/14/13	73	MOS - Unknown 16" Pipe removal @ northwest headwall	2				+2,000	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.	0
Contract 1252 Totals								(541,054)	Total Changes to the contract n the amount of (541,054) represents an UNDERRUN of allocated contingency.	
CONSTRUCTION TRENDS (Based on #1252 Trending Log and CMod) - SUBTOTALS:								(541,054)		
DESIGN TRENDS										
FD-001	07/31/10	084-0001	Narrowing of Platform at UMS	1	CMB-0006	Agree	08/04/10	(800,000)	[In "Current Forecast" - Sep2010 Cost Report.]	
FD-002	07/12/10	084-0002	Redux of Station Emergency Ventilation Fans (UMS)	1	CMB-0009	Agree (Conditionally)	08/25/10	(2,000,000)	Further actions: Designer required to receive Fire/Life/Safety approval before proceeding with this change. Designer to allocate cost impacts by Station (Current figures are "place-holders.". [In "Current Forecast" - Sep2010 Cost Report.]	
FD-002	07/12/10	085-0001	Redux of Station Emergency Ventilation Fans (CTS)	1	CMB-0009	Agree (Conditionally)	08/25/10	(500,000)	Further actions: Designer required to receive Fire/Life/Safety approval before proceeding with this change. Designer to allocate cost impacts by Station (Current figures are "place-holders.". [In "Current Forecast" - Sep2010 Cost Report.]	
FD-002	07/12/10	086-0001	Redux of Station Emergency Ventilation Fans (MOS)	1	CMB-0009	Agree (Conditionally)	08/25/10	(500,000)	Further actions: Designer required to receive Fire/Life/Safety approval before proceeding with this change. Designer to allocate cost impacts by Station (Current figures are "place-holders.". [In "Current Forecast" - Sep2010 Cost Report.]	

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FD-003	07/31/10	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	07/29/10	084-0003	UMS Structural Configuration	1	CMB-0007	Agree	08/18/10	(8,000,000)	[In "Current Forecast" - Sep2010 Cost Report.]	
FD-005	08/22/10	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	08/03/10	084-0005	Station Headwalls - UMS	1	CMB-0008	Agree	08/18/10	-0-		
FD-006	08/03/10	086-0002	Station Headwalls - MOS	1	CMB-0008	Agree	08/18/10	-0-		
FD-007	08/03/10		Cross-passages	1	CMB-0018	Agree	09/15/10	-0-		
FD-008	07/30/10		Trolley Re-route @ Columbus & Powell	1	CMB-0017	Agree	09/15/10	+2,000,000		
FD-009	10/06/10	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	10/06/10	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	10/06/10	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	10/06/10	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	10/06/10	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	10/06/10	082-0008	Include OCS system for rerouting trolley buses to Fifth Street	1	CMB-0024	Agree	12/15/10	+3,100,000		
FD-015	10/06/10	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	10/06/10	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	10/06/10	085-0004	CTS Ground Improvement	1	CMB-0012	over taken by FD-021	01/19/11	+10,300,000	Additional Information Pending.	
FD-018	10/06/10	084-0006	UMS Apple Store Entrance	1	CMB-0013	Disagree	11/10/10	-0-	Additional Information Pending.	
FD-019	10/06/10	086-0003	MOS TOD Configuration	1	CMB-0014	Agree	11/10/10	TBD		
FD-020	10/06/10	084-0007	UMS Emergency Stair #4 Relocation	1	CMB-0015	Agree	11/10/10	TBD		
FD-021	01/14/11	085-0005	CTS Lowering and Stations Reconfiguration	1	CMB-0027	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	02/16/11	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	11/17/10	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	11/17/10	087-0002	Diamond crossover on surface segment to a tandem (universal) crossover.	1	CMB-0033	Agree	08/24/11	(350,000)		
FD-025	04/13/11	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	05/31/11	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	07/21/11	082-0010	1 Stockton street (Apple Store) Secondary Closure Wall		CMB-0043	Agree	08/03/11	+500,000	1) 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	08/03/11	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.	

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						Approval Action	Approval Date	Actual/Forecast		
FD-029	08/08/11	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.	
FD-030	08/08/11	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	10/31/11		Accessibility Improvements at the SE corner of Union Square (UMS)							
FD-032	10/31/11		Union Square Entrance Reconfiguration (UMS)							
FD-033	10/31/11		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	12/09/11		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	06/26/12		Tunnel Air Replenishment System		CMB-0071	Agree	07/11/12	+1,215,000	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	06/26/12		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	08/27/12		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	11/07/12		Elongated Sidewalk Bulb-out at Chinatown Station					TBD	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. Design Impact: ROM - \$TBD Construction Impact: ROM - \$TBD	
FINAL DESIGN TRENDS (Based on All ECPs) - SUBTOTALS									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	07/31/10	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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X51-002	07/31/10	082-0002	Form B Credit for 1251 Utilities	7				(7,697,949)	Reserve and Contingencies removed as per communications with PG&E. This is consistent with the 1250 utility agreement. [Cost Transfer #0034 - Aug2010 Cost Report].	BT-0034
X52-001	07/31/10	083-0001	1252-(TUN) Revised estimate, escalation impact and contingency	7				(2,165,462)	Cost Transfer #0035 (Base \$\$), 0035a (Allocated Contingency), 0037 (Base \$\$ Escalation , 0037a (Allocated Contingency Escalation). [Sep2010 Cost Report]	BT-0037, BT-0037-A
X03-001	08/31/10	003-0001	OEWD's Pilot Training Program	7				+75,000	Workforce training pilot program in conjunction with the City/County's Office of Economic and Workforce Development (OEWD). Provides specialized training to SF residents to perform tunneling work. Central Subway financial responsibility being investigated. Requires further clarification	
X53-001	07/18/11	084-0001	CS 155-2 (DP2) CBP4 - Construction Budget Adjustment YOЕ	7	CMB-0044	Agree	07/27/11		Adjust construction budget in Section 6 of Contract No. CS 155-2 to Year of Expenditure	
X53-002	10/25/11		Change UMS Advertise Date to April 4th, 2012						DP2 Designer's new proposed dates for Pre-Final and Final Design have pushed out Advertise Dates.	
X53-003	04/11/12	084-0002	CN1253 (UMS) Construction Budget Adjustment 90%					+55,720,600	CMB is currently vetting the 90% estimate of \$221,534,723 which represents a \$\$ increase from the 65% base amount in 2010\$. Increase would deplete current YOЕ dollars and require use of unallocated contingency.	
X53-004	06/26/12	084-0002	Approve/Execute/Certify durations change for UMS Contract						Shortened the duration for Approve/Execute/Certify - UMS Contract from 40 to 24days to reflect an optimistic but doable duration for contractor submittals.	
X54-001	07/13/11	085-0001	CS 155-2 (DP2) CBP5 - Construction Budget Adjustment YOЕ	7	CMB-0045	Agree	07/27/11		Adjust construction budget in Section 6 of Contract No. CS 155-2 to Year of Expenditure	
X54-002	10/25/11		Change CTS Advertise Date to May 23rd, 2012		CMB-0061	Agree	12/28/11		DP2 Designer's new proposed dates for Pre-Final and Final Design have pushed out Advertise Dates.	
X54-003	11/02/11		Change CTS Advertise Date to February 8th, 2012						Change CTS Advertise Date from May 23, 2012 to February 8, 2012 (-74 working days)	
X54-005	12/06/11		Revisions to CTS Construction Schedule		CMB-0060	Agree	12/28/11			
X54-006	12/07/11	085-0002	CS 155-2 (DP2) CBP4 - Construction Budget Adjustment - allowed	7						
X55-001	07/18/11	086-0001	CS 155-2 (DP2) CBP6 - Construction Budget Adjustment YOЕ	7	CMB-0046	Agree	07/27/11		Adjust construction budget in Section 6 of Contract No. CS 155-2 to Year of Expenditure	
X55-002	10/25/11		Change MOS Advertise Date to June 25th, 2012						DP2 Designer's new proposed dates for Pre-Final and Final Design have pushed out Advertise Dates.	
X55-003	11/02/11		Change MOS Advertise Date to May 23rd, 2012						Change MOS Advertise Date from June 25, 2012 to May 23, 2012 (-22 working days)	
X55-004	06/26/12		Change MOS Advertise Date to Aug 20, 2012						Change MOS to August 20, 2012	
X56-001	10/25/11		Change STS Advertise Date to July 27th, 2012						DP2 Designer's new proposed dates for Pre-Final and Final Design have pushed out the Station's Advertise Dates. STS Advertise Date is staggered from Station's Advertise Dates.	
X56-002	12/14/11		STS Construction Schedule Revision for Equipment Procurement							
X56-003	06/26/12		Change STS Advertise Date to October 1, 2012						Change STS Advertise Date to October 1, 2012	
X40-001	10/19/11	028-0001	SFPUC CDD Updated Budgets	7		Authorized		+505,127	1250 SFPUC CDD Monthly Service Report Final & 1251 SFPUC CDD Estimate	BT-0172, BT-0177
X80-001	10/19/11	071-0001	DP1: CS 155-1 Modifications No. 2 & 3	see Prof. Serv		Authorized		+560,585	Modification No. 2: \$395,584.59, Modification No. 3: \$165,000. Individual details listed in Professional Services. See trend 1551-0002,1551-0005 - 1551-0009	BT-0170, BT-0171, BT-0173
X80-002		071-0002	DP1: CS 155-1 Modification No. 4	7		Authorized		+135,898	Modification No. 4: \$135,898 Individual details listed in Professional Services. See trends 1551-0010 - 1551-0014.	BT-0187
X80-003	10/27/11	029-0001	Increase City Auditor Budget	7		Authorized		+50,220	Reduce unallocated Contingency to increase City Auditor budget as authorized in Budget Authorization #51.	BR#51, BT-0181
X80-004	10/27/11	232-0001	Increase SFCTA Budget	7		Authorized		+20,000	Increase SFCTA budget per per Budget Authorization #51 to conduct travel forecast (TEP CEQA Modeling) to satisfy PMO review and SFMTA Fleet Plan light rail vehicle.	BR #51, BT-0182

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X80-005	7/1/10, 11/2/10,3/24/11	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.	BT-0194, BR#53
X80-006	5/6/10,7/25/11, 9/22/11	072-0002	DP2: CS 155-2 Exercised Options	see Prof. Serv		Authorized		+366,771	Individual details listed in Professional Services. See trends 1552-0001, 1552-0007 and 1552-0014.	BT-0023, BT-0194
X80-007	11/08/11	151-0001	Operations SFMTA Transit Services			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
X80-008	09/01/11	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	11/30/11	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	11/09/11	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	8/9/11, 9/22/11, 10/11/11, 11/9/11	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	05/30/12	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	12/17/12		For combining the stations and track and systems into Contract 1300 (SSTS)	7					Stations and track and systems into Contract 1300 (SSTS)	
X80-015	12/17/12		Changing the Bid Opening date and condensing the Contract Duration for Contract 1300	7					Changing the Bid Opening date and condensing the Contract Duration for Contract 1300	
X80-016	02/19/13		Change to Tunnel and CTS interface and buffer float Contract 1300 (SSTS)	7					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 (Based on Various Trends)									Current Forecast reflects a net +3,537,933 unfavorable impact for all Other Trends.	
GRAND TOTALS									Current Forecast reflects an estimated net +66,751,620 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 - ie 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	07/30/10		071-0001	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	02/18/11		071-0002	Project Office Delay (Adjustments for OH Rate and Team Productivity impact)	7	Authorized	07/29/11	+101,411	Amendment Signed by ED/CEO 7/29/11 COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved
1551-0003	02/18/11		071-0003	Additional Construction Support for CP-1	7					
1551-0004	02/18/11		071-0004	Redesign Required by Barney's and PUC for CP-2	7					

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1551-0005	02/18/11		071-0005 Archeological Monitoring 16.20.C1 (total)	7		Authorized	07/29/11	+197,173	Amendment Signed by ED/CEO 7/29/11 COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved
1551-0006	02/18/11		071-0006 Eyebolts	7		Authorized	07/29/11	+50,000	Amendment Signed by ED/CEO 7/29/11 COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved
1551-0007			071-0007 Secondary Closure Walls 800/838 Market	1		Authorized	07/29/11	+47,400	Amendment Signed by ED/CEO 7/29/11 COMPLETE, NO FURTHER ACTION; Amendment #2	Amendment 2 Approved
1551-0008			071-0008 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			071-0009 CTS Lowering	1		Authorized	12/08/11	+165,000	Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #3	Amendment 3 Approved
1551-0010			071-0010 Modify Sidewalk Vault Demo ECP-FD009	7		Authorized	12/08/11	+39,311	Amendment Signed by ED/CEO 12/8/11 COMPLETE, NO FURTHER ACTION; Amendment #4	Amendment 4 Approved
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 Total								+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	05/06/10		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	07/01/10		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	10/11/10		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	02/11/11		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	03/24/11		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. COMPLETE, NO FURTHER ACTION; Amendment #1	Amendment 1 Approved
1552-0006	06/28/11		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	07/25/11		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	08/03/11		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.	

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1552-0009	08/03/11	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	08/03/11	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	08/17/11	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	08/23/11	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	09/01/11	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	
1552-0014	09/22/11	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 Total								+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	08/09/11	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 8/9/11 authorizing \$738,787 in optional tasks. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0002	08/09/11	073-0002	Authorization to commence optional tasks 12.05 Architectural Plans	1		Authorized	08/01/11	+257,129	SFMTA letter 0933 from ED/CEO dated 8/9/11 authorizing \$738,787 in optional tasks. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0003	08/09/11	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 8/9/11 authorizing \$738,787 in optional tasks. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0004	08/09/11	073-0004	Authorization to commence optional tasks 12.12E traction power cables for CAD production	1		Authorized	08/01/11	+52,800	SFMTA letter 0933 from ED/CEO dated 8/9/11 authorizing \$738,787 in optional tasks. COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0005	09/19/11	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	09/22/11	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	09/27/11	073-0007	Proposal to exercise optional sub-task 12.12 structural design of the OCS attachments.	7				+59,460	Letter dated 9/27/11 to 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	10/05/11	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	10/11/11	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	11/09/11	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	11/09/11	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	02/06/12	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

- 1 - Owner Directed Change in Scope
- 2 - Unforeseen Conditions
- 3 - Errors and Omissions
- 4 - Quantity Variation
- 5 - Value Engineering
- 6 - Private Utilities
- 7 - Other

CENTRAL SUBWAY PROJECT
Project Trend/Change Control Log

Item #	Date Initiated	CMB No.	Change Description	Change Type	Change Status		Projected Cost Impact +Exposure/(Benefit)	Comments	Contract Modification Number
					Approval Action	Approval Date			
1553-0015	03/20/12	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	03/23/12	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
1553-0017	05/14/12	073-0017	Extension of PC Support Technician	1	Authorized	05/04/12	+34,483	Signed by Director of Transportation 5/14/12 COMPLETE, NO FURTHER ACTION; Amendment #3	Amendment 3 Approved
1553-0018	05/14/12	073-0018	Extension of CSP Quality Manager	1	Authorized	05/04/12	+61,043	Signed by Director of Transportation 5/14/12 COMPLETE, NO FURTHER ACTION; Amendment #3	Amendment 3 Approved
1553-0019	04/09/12	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	+52,712	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	04/09/12	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	04/26/12	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	04/26/12	073-0022	Increased authorization for optional task 12.12.e CAD production support	1	Authorized	04/26/12	+30,000	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	05/21/12	073-0023	Authorization to commence option task 12.11 structural design support for Fire Protection and Plumbing designs	1	Authorized	05/21/12	+39,204	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	05/21/12	073-0024	Authorization to commence optional task 12.12 structural design support for Traction Power and Power/Lighting designs	1	Authorized	05/21/12	+43,638	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	05/21/12	073-0025	Authorization to commence optional task 12.13 structural design support for Telephone and CCTV designs	1	Authorized	05/21/12	+24,328	SFMTA Letter 1688 from the Director of Transportation dated 5/21/2012 authorizing the increase in optional task 12.13 in the amount of \$24,328 COMPLETE, NO FURTHER ACTION; OPTION	Option
1553-0026	05/21/12	073-0026	Authorization to commence optional task 9.20 Technical Specifications for structural design support for above designs	1	Authorized	05/21/12	+3,039	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 Total							+2,046,831	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.	

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CMB LOG

CENTRAL SUBWAY PROJECT - Configuration Management Board Change Control Log

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Initial Implementing Procedure				CMB		
Change Form No.	Title of Change	Schedule Impact	*Cost 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		\$ (800)	CMB-0006	Agree	08/04/10
FD-004	UMS Structural Configuration		\$ (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		\$ (3,000)	CMB-0009	Agree (Conditionally)	08/25/10
FD-005	UMS Alternate Station Access/Vent Shaft @ Union Square		\$ (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		\$ 10,300	CMB-0012	Over Taken by FD-021	01/19/11
FD-018	UMS Apple Store Entrance		\$ -	CMB-0013	Disagree	11/10/10
FD-019	MOS TOD Configuration		TBD	CMB-0014	Agree	11/10/10
FD-020	UMS Emergency Stair #4 Relocation		TBD	CMB-0015	Agree	11/10/10
1250-0016	Additional AWSS modification at 4th/Harrison		\$ 156	CMB-0016	Agree	11/10/10
FD-008	Trolley Re-route @ Columbus & Powell		\$ 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 SFPUUC 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

CMB LOG

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Initial Implementing Procedure				CMB		
Change Form No.	Title of Change	Schedule Impact	*Cost Impact (X,000)	CMB No.	Agree / Disagree	Final Decision Record Date
1250-0030	Differing site conditions during utility installations - CMod #16 - Public only		\$ 238	CMB-0030	Agree	04/13/11
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 <i>(Not to Exceed Total)</i>		\$ 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 -6 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'l funds		\$ 263	CMB-0038	Agree	06/01/11
1251-0006	Revising layouts of utilities, northern portion of Stockton Street		\$ 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	<i>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)</i>		\$ 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 <i>(Refer to Approve CMB-0050, which notes the contract modification amount for this work)</i>		-	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 YOЕ		-	CMB-0044	Agree	07/27/11
X54-001	CS 155-2 (DP2) CBP5 (CTS) - Construction Budget Adjustment YOЕ		-	CMB-0045	Agree	07/27/11
X55-001	CS 155-2 (DP2) CBP6 (MOS) - Construction Budget Adjustment YOЕ		-	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 <i>(Ref. CMB-0042 for original CMod presented for this work)</i>		\$ 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

CMB LOG

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Initial Implementing Procedure				CMB		
Change Form No.	Title of Change	Schedule Impact	*Cost Impact (X,000)	CMB No.	Agree / Disagree	Final Decision Record Date
FD-029	CTS Revisions to Emergency Ventilation Requirements		\$ 1,000	CMB-0053	Agree	09/07/11
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'l 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. (Formally CMod #12 New CMod number is pending assignment)		\$ 89	CMB-0058	Agree	11/02/11
1251-0024 & 0032	PG&E Field Changes - (Formally CMod #13 New CMod number is pending assignment) 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 "not to exceed" 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) 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

CMB LOG

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Initial Implementing Procedure				CMB		
Change Form No.	Title of Change	Schedule Impact	*Cost Impact (X,000)	CMB No.	Agree / Disagree	Final Decision Record Date
1251-0034	Additional work related to discovery of conflicting utilities within the subsidewalk basement at 17-19 Stockton Street. (Worst case scenario - "Not to Exceed" value) <i>CM team will report actual amount value at a later date.</i>		\$ 346	CMB-0069	Agree	04/04/12
1251-0040, 0041, & 0042	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		\$ 2,200	CMB-0072	Agree	07/18/12
1252-025	UMS Reduced Duration - <i>08/01/12 :Condition upon incorporating correctness to backup documentation as required by & documented in CMB mtg.</i>		\$ -	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
1251-0043, 0072 & 0080	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 - <i>08/29/12</i> : 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

CMB LOG

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Initial Implementing Procedure				CMB		
Change Form No.	Title of Change	Schedule Impact	*Cost Impact (X,000)	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 (TO #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.		\$ 86	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		\$ 41	CMB-0081	Agree (Conditionally)	10/31/12
1251-0047, 0058, 0076, and 0078	Muni Vault 900A, Additional SL Work, Additional OCS Work		\$ 76	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		\$ 41	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 - Not To Exceed \$30K		\$ 30	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 Not To Exceed		\$ 58	CMB-0086	Agree	12/19/12
1252-COR15	Additional work to restrain the AWSS line - Not To Exceed \$96K		\$ 96	CMB-0087	Agree	12/19/12
1252-COR06	PG&E live electrical delays - Not To Exceed \$7,600		\$ 8	CMB-0088	Agree	01/09/13
1252-COR27	MOS Oil Filled Pipe at south headwall - Not To Exceed \$8,600		\$ 9	CMB-0089	Agree	01/09/13
1252-COR22	MOS Asbestos Pipe at north headwall - Not To Exceed \$6K		\$ 6	CMB-0090	Agree	01/09/13
1252-COR01	AWSS Conflict with Low Pressure Water - Not To Exceed \$16,900		\$ 17	CMB-0091	Agree	01/16/13
1252-COR03	AT&T Vault Conflict -4th & Harrison - Not To Exceed \$21,089		\$ 21	CMB-0092	Agree	01/16/13
1252-COR07	Oil Filled pipe @ Launch Box - Not To Exceed \$10K		\$ 10	CMB-0093	Agree	01/16/13
1252-COR10	MOS - Demo Pea duct bank / SF City 911 fiber optic line - Not To Exceed \$4,915		\$ 5	CMB-0094	Agree	01/16/13
1252-COR11	MOS - Traffic Signal line re-route south headwall - Not To Exceed \$37,500		\$ 38	CMB-0095	Agree	01/16/13
1252-COR12	MOS - Archaeological Standby North Headwall - Not To Exceed \$16,892		\$ 17	CMB-0096	Agree	01/16/13
1252-COR29	MOS - Todco scaffolding reimbursement - Not To Exceed \$1,717		\$ 2	CMB-0097	Agree	01/16/13
1252-COR41	LB Impacts due to live PG&E electrical lines (Flagging) Not To Exceed \$1,245		\$ 1	CMB-0098	Agree	01/16/13
1252 PCC01	Revisions to Moscone North Headwall Elevation (Top) Not To Exceed \$20,500		\$ 21	CMB-0099	Agree	01/16/13
1252 PCC09	UMS Headwall - Unknown Buried Pipe - Not To Exceed \$75K		\$ 75	CMB-0100	Agree	01/16/13

CMB LOG

CENTRAL SUBWAY PROJECT - Configuration Management Board Change Control Log

**Dollar value listed for Cost Impact amount reflects the CMB agreed amount, the actual Cost Impact amount may differ as shown on the Project Trend Log to reflect actual final agreed to value. Amount on Trend log will not be greater than agreed CMB amount without prior additional action by CMB.*

Initial Implementing Procedure				CMB		
Change Form No.	Title of Change	Schedule Impact	*Cost Impact (X,000)	CMB No.	Agree / Disagree	Final Decision Record Date
1252-COR38	Manhole in West side Guidewalls Footprint - <i>Not To Exceed \$4,052.17</i>		\$ 4	CMB-0101	Agree	01/23/13
1252-COR39	MOS - 16" Steel Pipe Removal at North east Headwall - <i>Not To Exceed \$2,951.99</i>		\$ 2	CMB-0102	Agree	01/23/13
1252-COR46	UMS - Unmarked Steel Pipes (6", 12" and 14") & Duct Bank - <i>Not To Exceed \$7,461.14</i>		\$ 7	CMB-0103	Agree	01/23/13
1252-COR47	Retrieval Shaft - Unmarked 10" Steel Pipe / Duct Bank Removal - <i>NTE \$2,201.54</i>		\$ 2	CMB-0104	Agree	01/23/13
1252-PCC11	Cap and Removal of 48" Steel Pipe - Not To Exceed <i>\$150,000</i>		\$ 150	CMB-0105	Agree	01/23/13
1252-PCC07	BART Annex Wall - Not To Exceed <i>\$15,380</i>		\$ 15	CMB-0106	Agree	01/30/13
1251-05, 46, 51, 61, 63, 66, 69, 79, 81	CMod #24 PG&E: 1. Trend 05 – Additional work to work around and shift existing PG&E conduits on Gary Blvd. at two 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
Total			\$ 82,002			