

January 24, 2013

Project No. D50541

Mr. Eric Dausman Sutro Tower, Inc. 1 La Avanzada Street San Francisco, CA 94131-1124

**SUBJECT:** Sutro Tower

1 La Avenzada Street San Francisco, CA

Routine Inspection of Leg A, North Face and Stack A

Dear Mr. Dausman:

We have completed our inspection of Leg A, the North Face Trusses, the Strands, the Base of all legs and Stack A above the 6<sup>th</sup> level. The routine inspection was performed on December 10, 11 and 27, 2012. The Stack was inspected on January 19, 2013.

#### Purpose

The purpose of the inspection was to check the structural portions of the tower and the attached equipment, etc. for distress due to corrosion, structural overload and/or other signs of distress or potential deterioration.

#### **Scope and Procedures**

The survey was performed in general accordance with the recommended approach for a Routine Inspection as described in the Inspection Procedures which were recently revised to include the appurtenant items and Stack A. The undersigned and staff engineers Reyes Rios performed the inspection of the Tower and Chad Hill also assisted in the inspection of Stack C. The strands were inspected by naked eye and binocular (8X).

The inspection included visual observations and recording by entry on the data sheets for each portion of the tower being inspected. A specific photograph was taken for the individual conditions. The data sheets and the photographs are coordinated.

#### **Inspection Limitations**

We inspected the tower from the interior of the leg and horizontal trusses. No attempt was made to inspect from the exterior of the trusses and legs other than what could be seen by naked eye and binocular. These methods allow us to see most of each surface and connection, however there are still areas that are not visible.

#### **Locations Not Visible during Routine Inspection**

The exterior surfaces of all three legs and all the trusses at Levels 2-4 were not visible enough from the interior or the ground to locate and indentify or quantify the conditions in these areas. STI and its independent professional engineer should consult and determine any inspection protocol which may be appropriate.

#### Results

The individual results are shown on the data sheets, location sketches and photographs. The general results were as follows:

- 1. No structural members or appurtenant items were noted with distorted or distressed conditions indicating structural overload.
- 2. Most of the distress noted was corroded fasteners. Either the nut (usually) or the head of the bolt, or both, were corroded. The great majority of the fasteners were not corroded to the point of producing flaking buildup. However, the corroded fasteners should be cleaned and repainted. If during the cleaning significant loss of metal is found, that is, if the flats of the nut or heads are rounded at the junction of the flats due to corrosion, the fastener should be replaced.
- 3. We noted some appurtenant items, including corroded electrical boxes and conduit, pipe clamps and missing or loose bolts that need to be addressed.
- 4. As with the Leg A from the Base to Level 4, the Stack had been recently painted and there were few items noted.
- 5. The skin showed no signs of structural distress.
- 6. The strands did not have any visible distress however we did note what might be holidays or light paint coverage in some areas.
- 7. The bases of all three legs showed no significant observable distress. Corrosion was visible on some welds and fasteners at the base plates.

This concludes our report of the routine inspection of Leg A, the North Face Trusses and Stack A of Sutro Tower.

If you have any questions, please contact the undersigned.

Sincerely,

**CEL Consulting** 

K. C. Dewell, Senior Engineer Civil Engineer No. 29110

Enclosures: Inspection Forms and Photographs

Cc: Ron Hamburger



## Inspection Summary - Year 2012

#### Description of Inspection:

- Routine inspection of Leg A
- Routine inspection of horizontal levels on North face
- Routine inspection of strands on North face
- Routine inspection of strand anchors on Leg A
- Routine inspection of base all legs

Special or In-Depth Inspections:

Summary of Results: PUSTT FASTENERS, ELEC. BEXECONDUIT

(MISSING BOLT @ HANDRAIL, Z LOOSE BOLTE

NO STIZUETURAL DISTREES

Summary of Recommendations:

SEE REPORT TEXT

#### Checklist:

- Has a severe event occurred since the previous inspection?

  Yes No
- Have action items and recommendations from previous inspections been addressed in the scope of work?
- Has the inspection log for future years been revised to account for scope of work and findings of this inspection?

Signature:	K.C.Lull	
Orginataro		
Date:	1-24-13	

# Inspection Data Sheet: Miscellaneous Tower Items

Observ.	Location / Identification <sup>1</sup>	Photo No.	Inspection Comments
1	LEGA, SIDEB	1	RUSTY BASEPLATE
7	LEGC SIDE B	Z	RUSTY BASEPLATE
2	LEGC, SIDEC	3	RUSTY BASEPLATE
	11	4	(1)
4	LEGC, SIDEC	5	CORROSION ON COLUMN FLANGE
	11	4	//
	11	7	1 1
5	LEGB, SIDEC	8	RF(5) RUSTY WELDS/BASEPLATE  RUSTY WELDS/BASEPLATE
	11	9	RUSTY WELDS BASEPLATE
	11	10	
	LEGB, SIDEB	11	RF(5) RUSTY WELDS BASERATE
	11	12	
	1	13	11
6	LEGB, SIDE A	14	RUSTY WELD
		15	V
		1	
	Sutra Tawar	Signature	Page: of
	Sutro Tower San Francisco, CA	File:	Date: 12-27-1

<sup>&</sup>lt;sup>1</sup> Miscellaneous items for the entire tower in addition to those contained in the column leg and truss forms.



Photo 01.JPG 12/27/2012



Photo 02.JPG 12/27/2012



Photo 03.JPG 12/27/2012



Photo 04.JPG 12/27/2012



Photo 05.JPG 12/27/2012



Photo 06.JPG 12/27/2012



Photo 07.JPG 12/27/2012



Photo 08.JPG 12/27/2012



Photo 09.JPG 12/27/2012



Photo 10.JPG 12/27/2012



Photo 11.JPG 12/27/2012



Photo 12.JPG 12/27/2012

# Inspection Data Sheet: Miscellaneous Tower Items

Observ. No.	Locati Identific		Photo No.	Inspection Comments
1	LEGCE	XT.		2RCENT et cous- RF (4)
2	STANDS	5-6	2	CHERVIEW FOR NEXT PHOTO
3	1-	ti.	3	CLOSER VIEW of HELIDATE IN PI
4	K	4-5	4	OVERVIEW FOR HEAT PHOTO
5	L	u	5	CLOSER VIEW of HOLIOTIE IN COMING
6	HANDRAIL U	DIAGS @5	6	OVERVIEW of STEET WIRES
7	U.	u	7	CLOSER VIEW OF COMDOTO WIRE
8	STRANDS	1-2	8	OVERVIEW FOR VERT PHOTO
9	W	I,	9	CLOSER VIEW of HOLIDAYS
10	11	2-3	10	OVERVIEW FOR NEXT PHOTO
(1	ii.	11	11	CLOSER VIEW of HOLIOTYS
12	18	2-3	12	OVERVIEW FOR NEXT PHOTO
13	1C	u	13	CLOSER VIEW of HOLIDERS
14	18	1-2	14	OVERVIEW FOR MEKT PHOTE
15	N.	11	15	CLOSER VIEW of HOLIDAYS
	Sutro Towe	r	Signature:	Page: of
Co	n Francisco,		File:	Page: of Date: 12/27/12

<sup>&</sup>lt;sup>1</sup> Miscellaneous items for the entire tower in addition to those contained in the column leg and truss forms.





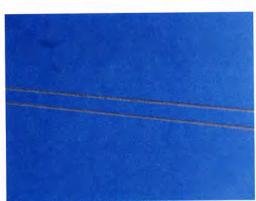


Photo 03.JPG 12/27/2012







Photo 04.JPG 12/27/2012

Photo 05.JPG 12/27/2012

Photo 06.JPG 12/27/2012

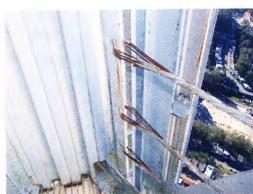




Photo 08.JPG 12/27/2012

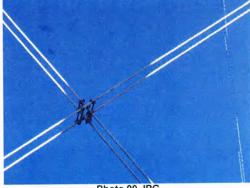
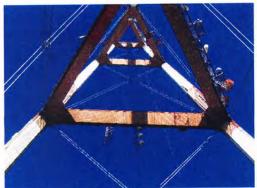


Photo 09.JPG 12/27/2012





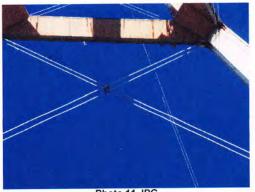
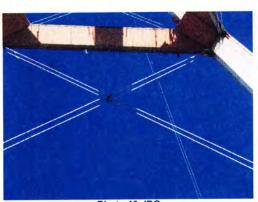


Photo 11.JPG 12/27/2012



Photo 12.JPG 12/27/2012





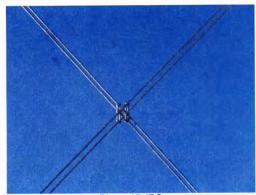


Photo 13.JPG 12/27/2012

Photo 14.JPG 12/27/2012

Photo 15.JPG 12/27/2012

## Inspection Data Sheet: Leg A (Level 1 to Level 2)

Observ.	Location / Identification			Photo		
No.	Column	Elevation	Item <sup>1</sup>	No.	Observation Comments	3.410.67 1.40.17
1	2-3	1,20	EL, BOX	1	ANCHORAGE STRAP FOR ELEC.	ma ra
					BOX COPRODED ANKY	100,128
2	2	1.19	PIPE	2	CONDUIT CORP THRU WALL	200.127
3	2	1.13	PIPE	3	(1 1)	500 200
4	2	1.17	PIPE	4	" UNION CORRUST	1001.23
5	2	1.15	PIPE	-	1 COZZ. THRU WALL	100 173
6	3	1.17	PIPE	5	II UNION CORRODED	5 UMO 1.14
						100 LIT
						00 1.0 00 1.0
						and the
	3					3 0211
Albert Comment		,				(mai)
						100 100
1000						100 IS
						100.1.5
						00 00 00
						x
	Sutro	Tower		Signature	: Page: of	LEG-A
	San Fran	cisco, CA	4	File:	Date:  2-10-12	

<sup>1</sup> Item designation: L=leg member, D=diagonal, H=horizontal, C=connection, O=others







Photo 1.JPG 12/10/2012

Photo 2.JPG 12/10/2012

Photo 3.JPG 12/10/2012







Photo 5.JPG 12/10/2012

## Inspection Data Sheet: Leg A (Level 2 to Level 3)

Observ.	Locati	Location / Identification		Photo		
No.	Column	Elevation	Item <sup>1</sup>	No.	Observation Comments	SWLONG TITITIONS
	3	2.3	2	1	RE(NIO) @ TOPCHO CONN. A	
					NO OTHER DISTRESS NOT RECENTLY CLEANED &	ED (00.13
						10G 123
						in 100.21
		-				100, 25 100, 25 100, 21 100, 21
	Sutro	Tower		Signature:	Page: of	● @ @ @ @ @ Ø Z
	San Franc	cisco, CA		File:	Date: 12-10-	LEG-(A)

<sup>1</sup> Item designation: L=leg member, D=diagonal, H=horizontal, C=connection, O=others



Photo 1.JPG 12/10/2012

## Inspection Data Sheet: Leg A (Level 3 to Level 4)

Observ. No.	Location / Identification		Photo			
	Column	Elevation	Item <sup>1</sup>	No.	Observation Comments	40.000
					NO DISTRESS HOTED	TWG YX
					RECENTLY CLEANED &	1071.3.22
					NO DISTREGS MOTED  RECENTLY CHEANED &  PAINTED	100.72
						ing IN
						is rud 171
	-					100.122
					AND THE RESERVE AND THE PARTY OF THE PARTY O	, ind. 18
						E 100711
						100718
						00 00 00 00 00 00 00 00 00 00 00 00 00
						1007713
						2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
						10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
						Tour 71
						ing x4
						Iwa 17
						74 (LNI ) (LNI ) (LNI ) (LNI ) (LNI )
						00 00 00 111111
	Sutro	Tower		Signature:	Page: of	X Y Z
	San Fran	cisco, CA		File:	Date: 12-10-12	-

<sup>&</sup>lt;sup>1</sup> Item designation: L=leg member, D=diagonal, H=horizontal, C=connection, O=others

# Inspection Data Sheet: North Truss (Level 2)

45.00	Locatio	on / Identificat	lon	Photo		
Observ. No.	Chord <sup>1</sup>	Horiz. Location	Item <sup>2</sup>	No.	Inspection Comments	
1	T	2.10	C	1	RF(I) @EXT.	
(2)	T	2.12	C	2	REGIE EXT.	
3	T	2.13	C	3	RF (5) BEXT.	
4	T	2,13	C	4	RFG @ INT. SIDE of FLG	
5	B	. 2.13	C	5	RF(2)	
6	3	2.1	C	6	RF (4)	
Sutro Tower San Francisco, CA				Signature:	Page: of	

 $<sup>^1</sup>$  Chord member designation: U = upper, M = middle, and L = lower  $^2$  Item designation: H = horizontal, V = vertical, D = diagonal, C = connection, and O = others

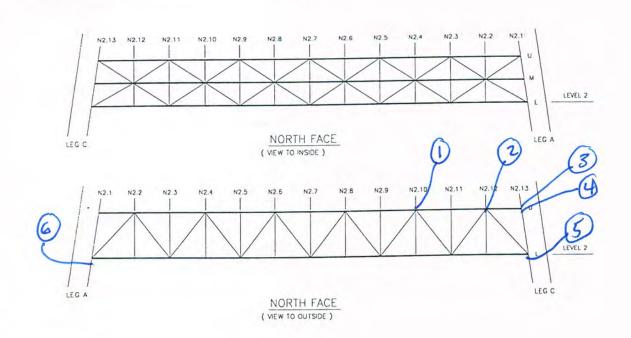








Photo 2.JPG 12/11/2012



Photo 3.JPG 12/11/2012



Photo 4.JPG 12/11/2012



Photo 5.JPG 12/11/2012



Photo 6.JPG 12/11/2012

# Inspection Data Sheet: North Truss (Level 3)

	Locati	on / Identificat	lon	Dhete							
Observ. No.	Chord <sup>1</sup>	Horiz. Location	Item <sup>2</sup>	Photo No.	Inspection Comments						
1	D	3.7-3.8	D	1	CORROS. @ FLANGE ON EXTENSOR SIDE						
	Sutro	Tower		Signature:	Page: of						
	San Fran	cisco, CA		File:	Date: 12/11/12						

 $<sup>^1</sup>$  Chord member designation: U = upper, M = middle, and L = lower  $^2$  Item designation: H = horizontal, V = vertical, D = diagonal, C = connection, and O = others

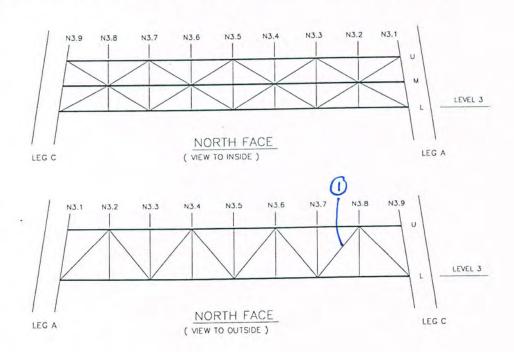


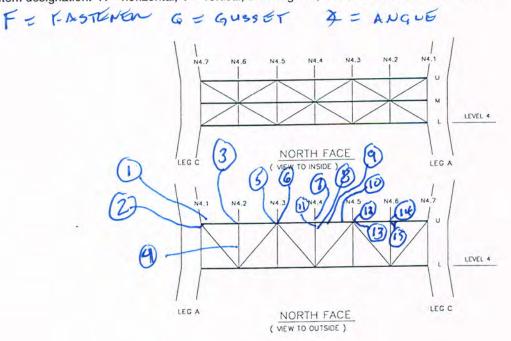


Photo 1.JPG 12/11/2012

# Inspection Data Sheet: North Truss (Level 4)

	Location	n / Identificat	lon	Photo	
No.	Chord <sup>1</sup>	Horiz. Location	Item <sup>2</sup>	No.	Inspection Comments
	a	4.1	F		LOSSE BULTS (6) RESULT EL. COND.
2	ч	4.1	(	2	RF (2)
3	и	4.2	C	3	CORP. @ X FORSKIN
4	X	4.2	(	4	CORR @ X FOR SILIN
5,\$	u	4.3	C	5	RF (1148), CORR. @ DIAG. & TOP CHUND
6	15	18	11	6	RF(8)
7	и	4.4	4	7	RF(4)
8	V	4.4	V	8	CORR, & FLG
9	u	4.4	H	9	11 11 11
10	U	4.5	Н	10	" " IL @ BRKT
11	V	4.4	V	11	11 " TOP of to column
12	ч	4.5	C	12	RF(10) & CORL @ WED of DIAG.
13	u	4.5	N	13	PF(13)
14	ч	4.6	vl	14	RF(3) \$ CORP @ WEB OF TOP CHORD
15	u	4.6	H	15	
	Sutro Tower			Signature	Page: of
5	San Franc	cisco, CA		File:	Date: 12/11/12

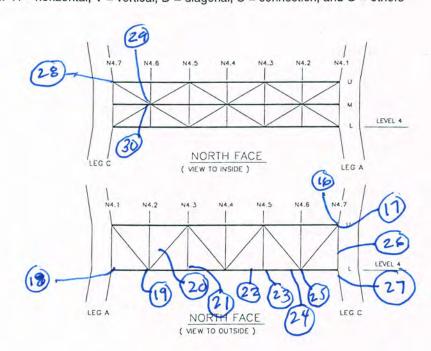
 $^1$  Chord member designation: U = upper, M = middle, and L = lower  $^2$  Item designation: H = horizontal, V = vertical, D = diagonal, C = connection, and O = others



#### Inspection Data Sheet: North Truss (Level 4)

	Locatio	n / Identificat	lon					
Observ. No.	Chord <sup>1</sup>	Horiz. Location	Item <sup>2</sup>	Photo No.	Inspection Comments			
16	ч	4.1	C	16	RF\$(14)			
13	LX	16	C	17	SAME COUNT			
18	L	4.1	C	18	RFG			
19	L	4.2	KAL	19	KNIFE PLATE TO COL. CATCH POINT (TYP)			
20	ELEC. 3x	4.2-4.3	EL. Box	20	ELEC, BOXES CORDODOS THRY			
21	L	4.3	(	21	RF(3) + CORZ. @ WEB at L. CHORD			
22	L	4.5	*	22	CORR of SKIN MITHERMENT & (& H. CHON)			
23	L	4.5	-	23	RF(5) + corp. ON Fug of con.			
24	L	4.6	X	24	PSAME			
25	L	4.6	C	25	RF (17)			
26	V	4.7	V	26	coer Q web of cou.			
27	V	4.7	V	27	RF(3) CERT, BELOW & KWCKANNEL			
28	D	4.7	(	28	RF(1)			
29	M	4.6	C	29	RF(5)			
30	M	4.6	C	30	CORN. @ PLATE			
	Sutro T	ower		Signature:	Page: _2_ of _3_			
5	San Franc	isco, CA		File:	Date: 12/11/12			

 $<sup>^1</sup>$  Chord member designation: U = upper, M = middle, and L = lower  $^2$  Item designation: H = horizontal, V = vertical, D = diagonal, C = connection, and O = others



# Inspection Data Sheet: North Truss (Level 4)

	Location	on / Identificat	lon	Photo	Inspection Comments	
No.	Chord <sup>1</sup>	Horiz. Location	Item <sup>2</sup>	No.		
31	M	45-4.4	H	31	CORR. @ INT, EDGE ST. FIG @ SKIN CONL	
32	18	4.4-4.5	t1	32	66 16 17 19	
33	m/V	4.5	m/v	33	RE(3) + CORR. @ WEB of M. CHORD	
34	MIV	4,5	MIV	34	PF(2) NO PHOTO	
35	m/p	4.4	1/0	3#	RF(6)	
36	M	4.3-4.4	M	35	SAND	
37	P.	u	u	36	Same	
38	MIV	4.3	Mlv	3#	RF(I)	
39	W	4.2	W	33	RF(1) + CORR ON WEBGEND	
	Sutro	Tower		Signature	Page: 3 of 3  Date: 12/11/12	
	San Fran	cisco, CA		File:	Date: 12/11/12	

 $^1$  Chord member designation: U = upper, M = middle, and L = lower  $^2$  Item designation: H = horizontal, V = vertical, D = diagonal, C = connection, and O = others

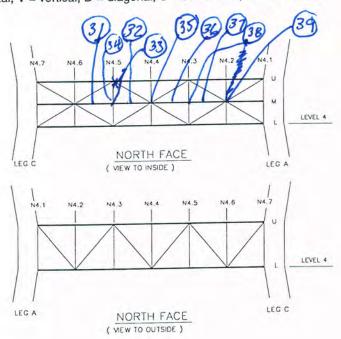




Photo 01.JPG 12/11/2012



Photo 02.JPG 12/11/2012



Photo 03.JPG 12/11/2012



Photo 04.JPG 12/11/2012



Photo 05.JPG 12/11/2012



Photo 06.JPG 12/11/2012



Photo 07.JPG 12/11/2012



Photo 08.JPG 12/11/2012

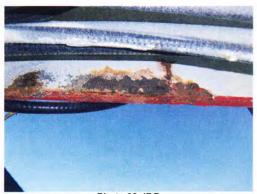


Photo 09.JPG 12/11/2012





Photo 11.JPG 12/11/2012

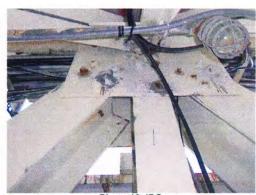


Photo 12.JPG 12/11/2012





Photo 13.JPG 12/11/2012

Photo 14.JPG 12/11/2012

Photo 15.JPG 12/11/2012







Photo 16.JPG 12/11/2012

Photo 17.JPG 12/11/2012

Photo 18.JPG 12/11/2012







Photo 19.JPG 12/11/2012

Photo 20.JPG 12/11/2012

Photo 21.JPG 12/11/2012







Photo 22.JPG 12/11/2012

Photo 23.JPG 12/11/2012

Photo 24.JPG 12/11/2012



Photo 25.JPG 12/11/2012



Photo 26.JPG 12/11/2012



Photo 27.JPG 12/11/2012



Photo 28.JPG 12/11/2012



Photo 29.JPG 12/11/2012



Photo 30.JPG 12/11/2012



Photo 31.JPG 12/11/2012



Photo 32.JPG 12/11/2012

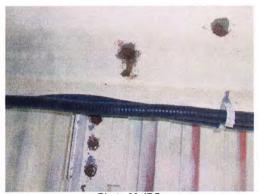


Photo 33.JPG 12/11/2012





Photo 35.JPG 12/11/2012



Photo 36.JPG 12/11/2012





Photo 37.JPG 12/11/2012

Photo 38.JPG 12/11/2012

## Inspection Data Sheet: Leg A (Level 4 to Level 5)

Observ. Location / Ident		on / Identifica	ation	Photo	01		
No.	Column	Elevation	Item <sup>1</sup>	No.	Observation		
-1	1-3	5.1	BRKT		RF (1) Q ELEV	GUIDE BAIL BEKE	
2	1	5.1	TYP	2	CORZ POCKET	OCCURS OTHERLOC	· (a) (2) (3)
3	3	5,0	C	3	RF (1) @ GUSSET	of TRUSS BTMCHO	Sth LEVAL LUNGLS
4		4.18	C	4	RF(1)		8 9 9 9
5	3	4.19	C	5	RF (De SKIN	<b>†</b>	100 A 117
6		5,10	6	6	RF (3)		100 4.15
7	1	4.19	6	7	RF(3)		
8		4,18	6	8	RF (2)		
9	2	4.17	C	9	RF(1) NOT V	15 IN THOTO	6
10		4.18	L	10	RF(3)@DBL	R	La constant
11		4.15	C	11	RF(I)	Lineal December 1	150g 45
12	2	4.15	4	12	2 F (2) @ SK	1N	int +3
13	1	4.14	C	13	RF(1)		4th LEVOL 415 LDVQ. 4.1
14	3	4.12	L	14	RF (2) @ DBI	-PL	
15		4.11	C	15	RFWESKIN	J	№ ®® ®® x y z
16		4.10	C	16	RF(2)		LEG-A
17	3	4.9	C	17	RF (1)	Page: of	
	Sutro	Tower		Signature			
	San Frai	ncisco, C	A	File:		Date:  2-10-12	

<sup>&</sup>lt;sup>1</sup> Item designation: L=leg member, D=diagonal, H=horizontal, C=connection, O=others

### Inspection Data Sheet: Leg A (Level 4 to Level 5)

Observ.	Locat	ion / identifica	ition	Photo			
No.	Column	Elevation	Item <sup>1</sup>	No.	Observation Co	mments	
18	1	4.9	4	18	RF(2)		1
19	3	4.9	C	19	RFB @SKIN		
20	2	4.7	4	26	ZF (2)		SULLIVEL TITITUMES
21		4.6	4	21	RF()		IM1 4.19
22	3	4.7	<	22	RF(1) @ SKIN		1000.417
23	3	4.5	-	23	RF(1) @ SILIN		10 10 10 10 10 10 10 10 10 10 10 10 10 1
24		4.7	C	24	RF(1)		TWE 413  TO T
25	2	4.3	6	25	RF(2) @ SKIN		100 mg (1)
26	1	4.5	C	26	FF() CSHN		30-0.
27		4.3	6	27	LOUSE BOLTS @	SIDE POUR	22 UNE CO 244
28	1-2	4.3	1+	28	COZIZ. CLAND	Tally March 1981 - March 19	(2) 10 (3) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1
							in i
							4th LEVEL LIME 4
							28 80 00 00
							X Y Z
					TO THE RESIDENCE OF THE PARTY O		- 100-10
	Sutro	Tower		Signature:	مينون.	Page: 2 of 2	
	San Fran	cisco, CA		File:		Date: 12-10-12	

<sup>&</sup>lt;sup>1</sup> Item designation: L=leg member, D=diagonal, H=horizontal, C=connection, O=others



Photo 01.JPG 12/10/2012



Photo 02.JPG 12/10/2012



Photo 03.JPG 12/10/2012



Photo 04.JPG 12/10/2012



Photo 05.JPG 12/10/2012



Photo 06.JPG 12/10/2012



Photo 07.JPG 12/10/2012



Photo 08.JPG 12/10/2012



Photo 09.JPG 12/10/2012



Photo 10.JPG 12/10/2012



Photo 11.JPG 12/10/2012



Photo 12.JPG 12/10/2012









Photo 14.JPG 12/10/2012

Photo 15.JPG 12/10/2012







Photo 17.JPG 12/10/2012



Photo 18.JPG 12/10/2012



Photo 19.JPG 12/10/2012



Photo 20.JPG 12/10/2012



Photo 21.JPG 12/10/2012



Photo 22.JPG 12/10/2012



Photo 23.JPG 12/10/2012



Photo 24.JPG 12/10/2012







Photo 26.JPG 12/10/2012



Photo 27.JPG 12/10/2012



Photo 28.JPG 12/10/2012

### Inspection Data Sheet: Leg A (Level 5 to Level 6)

Observ.	Location / identification			Photo			
No.	Column Elevation		n Item¹	No.	Observation Comments		
	1	6.3	C	1	RF(2)		(2)
Z	2	6.3	-	2	RF (j)		34/ 6
3		6.3	4	3	RF (1)		SON LIVEL LIVE LIVE LIVE LIVE LIVE LIVE LIV
4	2	6.0	(	4	RF(1)		(no c)
5		6.0	C	5	RF(2)		(4)
6	1	6.3	4	C	RF ()		199.11
7	2	6.0	L	7	CORZ WEB		100.13
8	2-3	6.0		8	BF(2) @ LARGE KNH	CKLE DEVICE	
9	2-3	6.0		9	CORR @ EYELGTS of	11-	14) 25 100 21
10		5.19	_	10	RFW		1 b 100.37
11	2	5.19	-	11	EF(1)		š unu
-12	243	TYP	长电	12	CORR POLKET @ ICNI	FE R TO COL	2 con 12
					THIS CONDITION IS	TYPICAL	5m LDQ.
					AT HUMEROUS L	OCKTIONS	@@ @@ @@ x y z
13		5.15	EL.C	13	CORR. Q ELEV, CABL	E GUIDE X15	LEG-®
- 14		TYP	KR	14	KNIFE TE POCKET	-TYPICAL	
15	3	5.14	C	15	RF(I)		
Sutro Tower S				Signature:	P	age: of	
	San Frai	ncisco, CA		File:	D	ate: 12-10-12	

<sup>1</sup> Item designation: L=leg member, D=diagonal, H=horizontal, C=connection, O=others

## Inspection Data Sheet: Leg A (Level 5 to Level 6)

Observ.	Locat	ion / Identifica	itlon	Photo	01	nts	
No.	Column	Elevation	Item <sup>1</sup>	No.	Observation Commen	nts	
16	1	5.13	C	16	RF(1)		
17	1	5.11	1	17	RF () - EXT, SIDE FROM	OBS, PLATFORM	
					MORE RF SFLOW	(M.S	so una una u
18	2	5.7	2	18	RF(1)		(Inc. 4)
19	3	5.8	6	19	RF()		100711
20	2	5.10	EL. BOX	20	BOTTON OF ELEC. BO		100.217
21	1	517	(	21	CORR. @ XEBENT A	- POULET	10078
22	3	5,8	6	22	RF(1)		a a a a a a a a a a a a a a a a a a a
23	3	5.3	(	23	RF3) @CONN, Pe	ATRUSS .	[D] 20 Ina. 18
24	1	5,3	(	24	RF()	1000	2) 100.27
25	2	5.4	C	25	RF(2)		§ ————————————————————————————————————
26	2	5.3	(	26	RF(1)@ PBL R		24)
27	2	5.3	BRIKT	27	RF(D@PIPECL	AMP CONH.	39 UNG 3
						3011	
							LEG-A
							(26) (25)
							7
	Sutre	Tower		Signature	P	age: 2 of 2	(27)
	San Fra	ncisco, CA	4	File:	D	ate:  2-10-12	

<sup>1</sup> Item designation: L=leg member, D=diagonal, H=horizontal, C=connection, O=others



Photo 01.JPG 12/10/2012



Photo 02.JPG 12/10/2012



Photo 03.JPG 12/10/2012



Photo 04.JPG 12/10/2012



Photo 05.JPG 12/10/2012



Photo 06.JPG 12/10/2012



Photo 07.JPG 12/10/2012



Photo 08.JPG 12/10/2012





Photo 10.JPG 12/10/2012



Photo 11.JPG 12/10/2012



Photo 12.JPG 12/10/2012



Photo 13.JPG 12/10/2012



Photo 14.JPG 12/10/2012



Photo 15.JPG 12/10/2012



Photo 16.JPG 12/10/2012



Photo 17.JPG 12/10/2012



Photo 18.JPG 12/10/2012



Photo 19.JPG 12/10/2012



Photo 20.JPG 12/10/2012





Photo 22.JPG 12/10/2012



Photo 23.JPG 12/10/2012





Photo 24.JPG 12/10/2012



Photo 25.JPG 12/10/2012

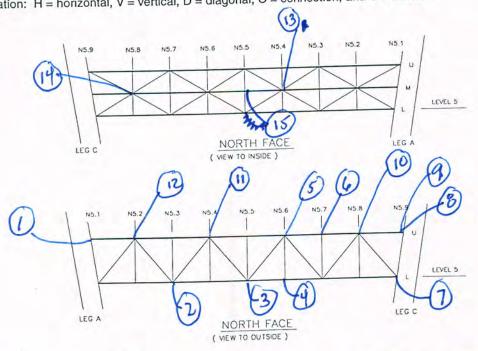


Photo 26.JPG 12/10/2012

# Inspection Data Sheet: North Truss (Level 5)

Observ	Locatio	n / Identificat	lon	Photo	Inspection Comments		
No.	Chord <sup>1</sup>	Horiz. Location	Item <sup>2</sup>	No.	misposiisii saaaa		
1	T	5.1	<u>_</u>	1	2 = (2)		
2	3	5,3	-	2	RT(3) 200045105		
3	3	5.5	-	3	RF(3) @ OUTS IDE		
4	3	5.6	C	4	RF(2)		
5	T	5,6	C	5	RE @ 0 5-4510E		
6	T/D	5.7	(	6	RF(2) 1@ FUG OF DIAG, 1@ INT CASET		
7	В	5,9	C	7	RF(2) @INT & RF(3) @ EXT.		
8	T	5.9	C	8	RF(4) Q EXT. + RUSTY COTTER 9 IN @ ST		
9.	T	5.9	4	9	RF(4) Q EXT. + RUSTY COTTER 9 IN @ AA		
10	T	5.8	C	10	RF(4) @ ERT.		
11	T	5.4	C	ti	RAS) @ EXT.		
12	T	5.2	-	12	RF(2) @ EKT		
138	M	5.4	40	13	RF(1)		
14	M	5.8	M	14	RF(2)		
15	₽ M	5.5	C	15	RF (3) COUN (2) CYR fin M. CYGU		
	Sutro	Tower		Signature			
	San Fran	cisco, CA		File:	Date: 12/11/12		

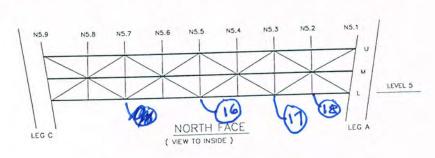
 $^1$  Chord member designation: U = upper, M = middle, and L = lower  $^2$  Item designation: H = horizontal, V = vertical, D = diagonal, C = connection, and O = others



HOTE: EXT @ TOP CHOND EXT.

Observ. No.	Location	n / Identificat	lon	Photo No.	Inspection Comments		
	Chord <sup>1</sup>	Horiz. Location	Item <sup>2</sup>				
16	B	5.5	C	16	RF(3) - 1@ VERT, 2@ HORIZ.		
17	B	5.7	-	17	RF(2)		
18	8	5.2	ch	16	<b>P</b> (i)		
4							
			-				
	0.4	Towar		Signatur	e: Page: 2 of 2		
Sutro Tower San Francisco, CA				File:	Page: 2 of 2 Date: 12/11/12		

 $<sup>^1</sup>$  Chord member designation: U = upper, M = middle, and L = lower  $^2$  Item designation: H = horizontal, V = vertical, D = diagonal, C = connection, and O = others



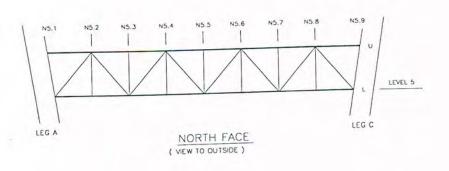




Photo 01.JPG 12/11/2012



Photo 02.JPG 12/11/2012



Photo 03.JPG 12/11/2012





Photo 05.JPG 12/11/2012



Photo 06.JPG 12/11/2012



Photo 07.JPG 12/11/2012



Photo 08.JPG 12/11/2012



Photo 09.JPG 12/11/2012



Photo 10.JPG 12/11/2012



Photo 11.JPG 12/11/2012



Photo 12.JPG 12/11/2012



Photo 13.JPG 12/11/2012



Photo 14.JPG 12/11/2012



Photo 15.JPG 12/11/2012



Photo 16.JPG 12/11/2012

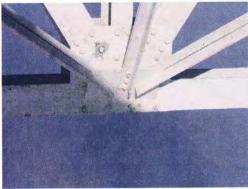


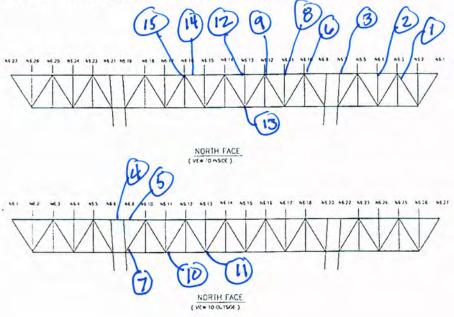
Photo 17.JPG 12/11/2012



Photo 18.JPG 12/11/2012

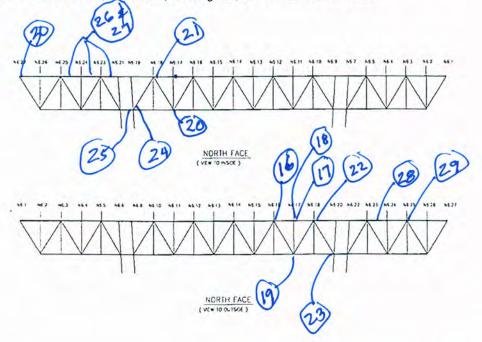
	Locatio	n / Identificat	lon	Photo No.	Inspection Comments		
No.	Chord <sup>1</sup>	Horiz. Location	Item <sup>2</sup>				
1	T	6.3	C		RF(3)		
2	T	6.4	C	2	RF(i)		
3	T	6.7	<b>c</b>	3	PF (2)		
4	T	6.7	4	4	RF(I)		
5	T	6.8	C	5	PF (2)		
6	T	6.10	-	6	RF(I)		
7	B/D	6.8	C	7	RF(i)		
B	T	6.11	C	8	RF(I)		
9	T	6.12	(	9	P + (3)		
10	В	6.1)	c	10	RF(1)		
11	B	6.13	(	11	RF (1)		
12	T	6.13	C	12	RF (2)		
13	V	6.13	4	13	2F(1)		
14	T	6.14	c	14	RFCI) @ TOP CHOND CONN. PL		
15	1	6.16	14	15	PF(6)		
	Sutro	Tower		Signature:	Page: 1 of 4		
	San Fran	cisco, CA		File:	Date: 12-11-12		

<sup>1</sup> Chord member designation: OU = outer upper, OL = outer lower, IU = inner upper, and IL = inner lower <sup>2</sup> Item designation: H = horizontal, V = vertical, D = diagonal, C = connection, O = others



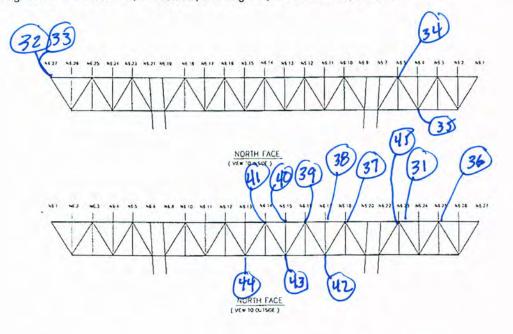
	Location / Identification			Dhata			
No.	Chord <sup>1</sup>	Horiz, Location	Item <sup>2</sup>	Photo No.	Inspection Comments		
16	T	6.16	-	16	RF(3)		
17	1	6.17	C	17	RF(2)		
18	T	6.17	H	18	R=(3)		
19	3	6.17	C	19	RF (1)		
20	B	6.17	C	20	2 F (1)		
21	T	6.18	C	21	RF(5)		
22	T	6.18	C	22	RF(3)		
23	3	6.20	(	23	COPR @WEB \$ KNIFE R+ (Z) PF		
24	B	619	4	24	RF (2)		
25	8	6.19	BUK	25	PT(2)@ LAKGE KNUEKET DEVICE		
26	T	6.21	H	26	RF ALL ALONG 6.21-6.25		
27	T	-6.25	μ	27	a u u u u		
28	T	6.23/6.24	4	28	11 11 6.23-6.24		
29	十	6.25	C	29	RF (3)		
30	RAILING	6.27	PHIL	30	BOLT MISSING		
Sutro Tower				Signature:	Page: 2 of 4		
San Francisco, CA				File:	Date: 12-27-12		

<sup>&</sup>lt;sup>1</sup> Chord member designation: OU = outer upper, OL = outer lower, IU = inner upper, and IL = inner lower <sup>2</sup> Item designation: H = horizontal, V = vertical, D = diagonal, C = connection, O = others



6.00	Locatio	on / Identificat	lon	Photo No.	Inspection Comments		
Observ. No.	Chord <sup>1</sup>	Horiz. Location	Item <sup>2</sup>				
31	T	623/624		31	RF ALL ALONG 6.23-6.24		
32	T	END	WIRE	32	SAFETY WIRE SAGGING & LOOPED		
33	10	4	·		OVER US POST. TIGHTEN		
					& RUN WIRE THROUGH A HOLE,		
34	T	6.23	C	34	PF(3)		
35	B	6.23	C	35	2=(1)		
36	T	6.25	_	34	RF (1) & CORR. @ XS		
37	T	6.18	C	37	RF (16)		
38	T	6.17	C	38	PF (6)		
39	T	6.16	(	39	RE (13)		
40	T	6.15	(	40	2F (6)		
41	T	6.14	(	41	RF (3)		
42	В	6.17	-	42	RF(I)		
43	3	6.15	c	43	FF (10)		
44	B	6.13	C	44	RF (4)		
	Sutro	Tower		Signature:	Page:		
	San Fran	cisco, CA		File:	Date: 12-27-12		

<sup>1</sup> Chord member designation: OU = outer upper, OL = outer lower, IU = inner upper, and IL = inner lower<sup>2</sup> Item designation: H = horizontal, V = vertical, D = diagonal, C = connection, O = others



Observ. No.	Locatio	n / Identificat	lon	Photo No.	Inspection Comments		
	Chord <sup>1</sup>	Horiz. Location	Item <sup>2</sup>		mapecuon commons		
45	T	6.23	4	45	PF(3)		
46	T	6.10	(	46	RF(4)		
47	T	6.12	4	47	RF(3)		
48	V	6.4	V	40	PF (!)		
49	T	6.23	D	49	2 + (2)		
50	W	6.3	V	50	ER LOUSE BOLT		
51	3	6.10	H	5	RF(I)		
52	8	6.11	H	52	RF(3)		
53	3	6,12	H	53	RE ()		
54	3	6.13	4	54	RE(I)		
55	3	6.16	H	55	72 F(3)		
56	3	6.17	H	56	2 × (2)		
57	3	6.18	It	57	7 F (2)		
			-				
Sutro Tower				Signature	Page: 4 of 4		
San Francisco, CA				File:	Date: 12 -27-12		

<sup>&</sup>lt;sup>1</sup> Chord member designation: OU = outer upper, OL = outer lower, IU = inner upper, and IL = inner lower <sup>2</sup> Item designation: H = horizontal, V = vertical, D = diagonal, C = connection, O = others

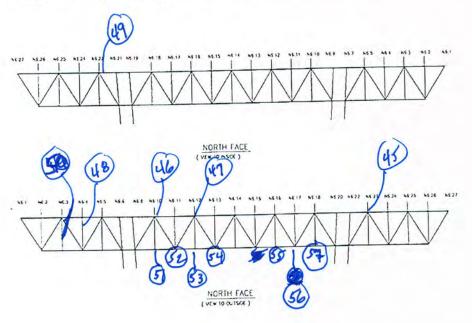




Photo 01.JPG 12/11/2012



Photo 02.JPG 12/11/2012



Photo 03.JPG 12/11/2012



Photo 04.JPG 12/11/2012



Photo 05.JPG 12/11/2012



Photo 06.JPG 12/11/2012



Photo 07.JPG 12/11/2012



Photo 08.JPG 12/11/2012



Photo 09.JPG 12/11/2012

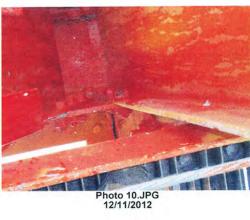




Photo 11.JPG 12/11/2012



Photo 12.JPG 12/11/2012



Photo 13.JPG 12/11/2012



Photo 14.JPG 12/11/2012



Photo 15.JPG 12/11/2012



Photo 16.JPG 12/27/2012



Photo 17.JPG 12/27/2012



Photo 18.JPG 12/27/2012

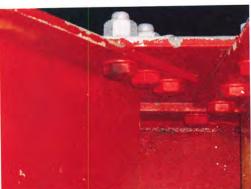


Photo 19.JPG 12/27/2012



Photo 20.JPG 12/27/2012



Photo 21.JPG 12/27/2012



Photo 22.JPG 12/27/2012



Photo 23.JPG 12/27/2012



Photo 24.JPG 12/27/2012



Photo 25.JPG 12/27/2012



Photo 26.JPG 12/27/2012



Photo 27.JPG 12/27/2012



Photo 28.JPG 12/27/2012



Photo 29.JPG 12/27/2012



Photo 30.JPG 12/27/2012



Photo 31.JPG 12/27/2012



Photo 32.JPG 12/27/2012



Photo 33.JPG 12/27/2012



Photo 34.JPG 12/27/2012



Photo 35.JPG 12/27/2012



Photo 36.JPG 12/27/2012



Photo 37.JPG 12/27/2012



Photo 38.JPG 12/27/2012



Photo 39.JPG 12/27/2012



Photo 40.JPG 12/27/2012



Photo 41.JPG 12/27/2012

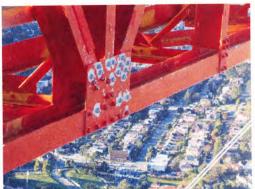


Photo 42.JPG 12/27/2012



Photo 43.JPG 12/27/2012



Photo 44.JPG 12/27/2012



Photo 45.JPG 12/27/2012



Photo 46.JPG 12/27/2012



Photo 47.JPG 12/27/2012



Photo 48.JPG 12/27/2012









Photo 50.JPG 12/27/2012

Photo 51.JPG 12/27/2012











Photo 54.JPG 12/27/2012







Photo 56.JPG 12/27/2012

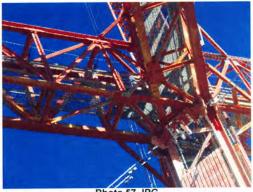


Photo 57.JPG 12/27/2012

#### Inspection Data Sheet: Antenna Mount Stack "A" (Level 6 to base of antenna)

Observ.	Locati	on/Identifica	tion	Photo	Observation Con	nments	. 0	LEVEL 6.40 LEVEL 6.39
No.	Column	Elevation	Item <sup>1</sup>	No.	Opport valion Con	minorite	, o e	(6) LEVEL 6.38
	Y FACE	6.9	D	1	RF(I)		. \	LEVEL 6.36
2	Y FACE	6.21	D	2	RF(1)		150-	LEVEL 6.34
3	C2	6.19	L	3	CORR. @ COL,			LEVEL 6.32
4	E/13	6.22	H	4	RF(1)		300"	(5) LEVEL 6.30
5	C2	6.30	D	5	RF()		30(	LEVEL 628
6	(2	6.37	C	6	RF (2)		N CENT	LEVEL 6.26
							BETWEEN COLUMN	LEVEL 6.22
								LEVEL 6.20
							DIMENSIONS SHOWN ARE	LEVEL 6.18
							SHOW .	LEVEL 6.16
							SNOIS.	LEVEL 6.14
							30'-0"	LEVEL 6.12
								LEVEL 6.10
								LEVEL 6.8
							15'-1%6"	LEVEL 6.6
								LEVEL 6.4
							.641	LEVEL 6.2 LEVEL 6.1
Sutro Tower Sign					re:	Page: of		9 9 9 9 1 WEL 6
S	San Francisco, CA					Date: 1-19-13	⊕ <sub>x</sub> €	INA MOUNT STACK "A"

<sup>&</sup>lt;sup>1</sup> Item designation: L=leg member, D=diagonal, H=horizontal, C=connection, O=others



Photo 1.JPG 01/19/2013



Photo 2.JPG 01/19/2013

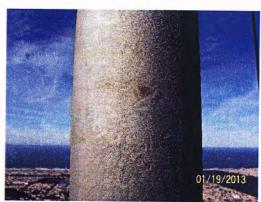


Photo 3.JPG 01/19/2013



Photo 4.JPG 01/19/2013



Photo 5.JPG 01/19/2013



Photo 6.JPG 01/19/2013