

SAN FRANCISCO **PLANNING DEPARTMENT**

DATE:	November 22, 2010	S⊔ite 400 San Francisi
TO:	Historic Preservation Commission	CA 94103-2
FROM:	Timothy Frye, Acting Preservation Coordinator, (415) 575-6822	Reception: 415.558.6
RE:	Informational Presentation on Emergency Work at 130 Sutter Street	Fax:

The Project Sponsor (Sponsor) has submitted the following materials for your review in anticipation of the December 1, 2010 informational hearing regarding emergency work at 130 Sutter Street, the Hallidie Building. Please note that the associated rehabilitation work will require a Certificate of Appropriateness from the Historic Preservation Commission and will be submitted for your review in early 2011.

1650 Mission SI. CO. 2479

378

415.558.6409

Planning Information. 415.558.6377

MURPHY BURR CURRY, INC.

October 13, 2010

Project Number M210-023

Bruce Albert The Albert Group Albert Group,Inc 114 Sansome Street Suite 710 San Francisco, CA 94104

email: BAlbert@TheAlbertGroup.com

Dear Mr. Albert:

Subject: Structural Observation Report - Fire Escapes and Balconies 130 Surter Street, San Francisco

At your request we visited the site on October 6th, 7th, and 8th to accompany the crew of Applied Materials and Engineering (AME) as they performed steel testing of the existing exterior balconies and fire escapes at the above-reference property's south façade. The purpose of our visit was to further assess the general condition of these elements to complement our previous report dated March 23, 2010 and to photograph these conditions. Additionally, we reviewed architectural drawings by McGinnis Chen Associates to verify the accuracy of the structural elements shown.

Access to the façade was by means of scaffolding between Lines J and O to the 3rd floor (see attached elevation) and through windows at the 7th floor balcony. Other fire escapes were accessed by the fire escapes themselves where possible. Areas not accessible due to field conditions are noted on the attached elevation.

As described in our previous report, the condition of the steel outriggers supporting the fire escapes and balconies is of considerable concern. Pieces of the outriggers have deteriorated to the point where they are no longer functional. In some cases, testing of the steel was not practical due to the delaminated condition. A sampling of typical conditions are shown below and additional photos and a reference elevation are on following pages

Photo A - Second floor at Line M:

Photo B - Fifth floor at Line N:



MURPHY BURR CURRY, INC.

Structural Observation Report - Fire Escapes and Balconies 130 Sutter Street, San Francisco Project No. M210-023 October 15, 2010 Page 2 of 3



As shown on the Photo D, the connection of the railings to the steel window mullion system has also suffered extensive deterioration.

Enclosed please find a copy of the test results from Applied Materials Engineering. As can be noted from the test results the deterioration of the structural support system has resulted in a loss of 70% of the original structural capacity. Not only does this result in a structure that is incapable of providing adequate support for the intended use but also presents a serious concern of imminent falling hazards. It was determined during the field work that certain sections of the fire escapes and walkways are unsafe and were not tested. Access to these areas will require full exterior scaffolding.

We recommend that corrective action be taken immediately. Falling protection, some of which we noted has been installed, should be reviewed and complemented if found necessary. Removal of all badly deteriorated elements should begin as soon as possible.

Please contact the undersigned with any questions or clatifications to the above.

Sincerely, MURPHY BURR CURRY, INC. Thad Povey, CE39850 David G Mumhv Project Engineer President Attachments: 1) Additional photos 2) Reference Elevation No. S2379 3) AME testing report ×P. 3-31-2012

MURPHY BURR CURRY, INC. Structural Observation Report - Fire Escapes and Balconies

Structural Observation Report - Fire Escapes and Balconies 130 Sutter Street, San Francisco Project No. M210-023 October 15, 2010 Page 3 of 3

Photo E. Second floor at Line L.S:

Photo F - Second floor at Line M.5:



Photo G - Second floor at Line M;



Photo H - Fourth floor at Line N:



Photo I - Fourth floor at Line N:



Photo L - Sixth floor at Line B:





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 APPLIED MATERIALS & ENGINEERING, INC.
 980 41st Street Tel: (51 Oakland, CA 94608 FAX: (51

Tel: (510) 420-8190 FAX: (510) 420-8186 e-mail: info@appmateng.com

October 12, 2010

Project No. 110567C

Mr. Bruce Albert **The Albert Group, Inc.** 114 Sansome Street, Suite 710 San Francisco, CA 94104

Email: Balberta thealbertgroup.com

Subject:

Fire Escape and Balcony Testing for Corrosion 130 Sutter Street, San Francisco, CA 1

Dear Mr. Albert:

As requested, Applied Materials & Engineering, Inc. (AME) has conducted testing of the steel members of the fire escapes and balconies (for the effects of corrosion) on the south elevation of the building located at 130 Sutter Street in San Francisco, California.

This testing included accessible areas of the walkways at the 2^{nd} , 3^{rd} and 7^{th} floors, and balconies at the 2^{nd} through 7^{th} floors at the east and west end of the building.

PROCEDURES & RESULTS

An electric grinder was used to remove paint and corrosion products at test locations. Thickness measurements of the steel members were recorded using a Dakota Ultrasonic MX-3 thickness gauge. The south elevation, showing locations of documented steel members, is given in Figure 1.

Locations of measurements on steel elements are shown in details provided in Figure 2. Documented results of the investigation are presented in Table I.

Please call if you have any questions regarding the above.

Sincerely, APPLIED MATERIALS & ENGINEERING, INC.

Darren Massey Project Manage

Reviewed by:

Armen Tajirian, Ph.D., P.E. Principal

C.c.: David Murphy, S.E., MBC (email)

TABLE I

STEEL MEMBER THICKNESS MEASUREMENT RESULTS

130 Sutter Street, San Francisco, CA

AME Project No. 110567

	·		Thickness Measurement (in.)				
Element	Floor	Gridline	Vertical Outrigger Plate* (T1/T2)	Outrigger Angle* (T1/T2)	Walkway Angle*	I Beam*	
Balcony	2 nd	N	0.217/0.214	0.149/0.169			
Balcony	2 nd	M.5				0.220 Bottom Flange	
Balcony	2 nd	M	0.291/0.312	0.170/0.160			
Walkway	2 nd	L.5			0.234 Vertical Leg 0.273 Horizontal Leg		
Walkway	2 nd	L	0.281/0.225	0.155/0.149	105		
Walkway	2 nd	K.5		,	0.225 Vertical Leg 0.205 Horizontal Leg		
Walkway	2 nd	K	0.238/0.170	0.131/0.170			
Walkway	2 nd	J.5			0.217 Vertica) Leg 0.205 Horizontal Leg		
Balcony	3 rd	И	0.189/0.191	0.155/0.189			
Balcony	3 rd	M.5				0.166 Web 0.223 Bottom Flange	
Walkway	310	M	0.194/0.195	0.141/0.143			
Walkway	3 rd }	L.5			0.213 Vertical Leg 0.205 Horizontal Leg		
Walkway	3 rd	L	0.192/0.236	0.165/0.162			
Walkway	3 rd	K.5	-		0.201 Vertical Leg 0.250 Horizontal Leg		
Walkway	3rd	K	0.181/0.168	0.131/0.136			
Walkway	3'd	J.5			0.224 Vertical Leg 0.246 Horizontal Leg		
Walkway	3 rd	J	0.235/0.250	0.147/0.174		1000 H.C.100	
Walkway	3 rd	I.5 .			0.243 Vertical Leg 0.222 Horizontal Leg		
Walkway	314	I	0.247/0.250	0.126/0.140			
Walkway	3 rd	H.5			0.200 Vertical Leg 0.219 Horizontal Leg		
Walkway	3rd	H	0.190/0.258	0.136/0.122			
Walkway	3 rd	G.5			0.206 Vertical Leg 0.191 Horizontal Leg		
Walkway	3 rd	G	0.230/0.188	0.138/0.131			
Walkway	3rd	F.5			0.237 Vertical Leg 0.248 Horizontal Leg		
Walkway	3 rd	F	0.260/0.259	0.134/0.144			
Walkway	3 rd	E.5		-	0.212 Vertical Leg 0.193 Horizontal Leg		

TABLE I.1 (Cont.)

STEEL MEMBER THICKNESS MEASUREMENT RESULTS

130 Sutter Street, San Francisco, CA

AME Project No. 110567

			Thickness Measurement (in.)			
Element	Floor	Gridline	Vertical Outrigger Plate* (T1/T2)	Outrigger Angle* (T1/T2)	Walkway Angle*	Balcony I Beam*
Walkway	3 rd	E	0.289/0.287	0.124/0.125		
Walkway	3,4	D.5			0.194 Vertical Leg 0.210 Horizontal Leg	
Walkway	3 rd	D	0.225/0.276	0.130/0.126		
Balcony	4 th	<u> </u>	0.191/0.186	0.155/0.189		
Balcony	4 th	M.5				0.166 Web 0.223 Bottom Flange
Balcony	5 th	N	0.178/0.144	Total Loss		
Balcony	5 th	M.5				0.182 Web 0.223 Bottom Flange
Balcony	6 th	В	0.213/0.181	Total Loss		
Balcony	6 th	· B.5	2-			0.171 Web 0.214 Bottom Flange
Balcony	6 ^{an}	N	0.257/0.254	0.314/0.312		
Ваісолу	6 th	M.5				0.173 Web 0.210 Bottom Flange
Balcony	7 th	N (Repaired Area?)	0.254/0.257	0.333/0.315		
Balcony	7 th	M.5				0.168 Web 0.232 Bottom Flange
Balcony	7 th	B (Repaired Area?)	0.254/0.255	No Angle		
Balcony	7 th	B.5	·			0.172 Web 0.208 Bottom Flange

Note: 2nd – 5th floor balconies at west end (Lines B-C), partial 2nd level walkway and 7th level walkway were not accessible due to field conditions.

*See Figure 2 for locations of members tested.



Figure 1. South elevation showing fire escape balconies & walkways.



Figure 2. Balcony details showing locations of thickness measurements.

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	NOTICE OF VIOLATION of the San Francisco Municipal Codes Regarding Unasfe, Substandard or Noncomplying Structure or Land or Occupancy					
<u>DEPARTMEN</u> City and Count 1660 Mission St	<u>I OF BUILDING INSPECTI</u> y of San Francisco L San Francisco, CA 94103	<u>on</u> notice; 1		NUMBER: 201063153 DATE: 30-AUG-10		
ADDRESS: 130	SUTTER ST					
OCCUPANCY/	ISE: B (BUSINESS-OFFICE;	FOOD AND DRINKING	ESTABLISHMBLOCK:	0288 LOT: 027		
If checked, this i	is formation is based upons site objer	vation only. Farther research	may indicate that legal use is di	Serent. If so, a revised Notice of Violation		
OWNER/AGENT: MAILING ADDRESS	CONNER EDWARD CONNER EDWARD 27 MAIDEN LANE SAN FRANCISCO CA	94108	PHONE	C#:		
PERSON CONT	ACTED @ SITE:		•	PHONE #: -		
	VI	OLATION DI	ESCRIPTION	CODE/SECTION#		
D WORK WIT	HOUT PERMIT	· · · · · · · · · · · · · · · · · · ·		106.1.1		
ADDITIONA	L WORK-PERMIT REQUI	RED		106.4.7		
EXPIRED O	R CANCELLED PERMIT	PA#:		106.4.4		
UNSAFE BU	ILDING 📜 SEE ATTACI	IMENTS	,	102.1		
Fire escape is ext	remely corroded and unsafe for	egress.				
1		TODDECTIV	F ACTION.			
		UNKELIN	BAR LIUN: -	7		
STOP AL	L WORK SFBC 104.	2.4	T	415-558-6123		
FILE BUILDI OBTAIN PER SINDIOFF, CORRECT V YOU FAILED TO	ING PERMIT WITHIN 30 DA MIT WITHIN 60 DAYS AND IOLATIONS WITHIN DAY 0 COMPLY WITH THE NOTICES	COMPLETE ALL WO S. INO PER	PLANS) A copy of this Notice RK WITHER 90 DAYS, J MIT REQUIRED IS DEPT. HAS INITIATED AN	e Must Accompany the Permit Application INCLUDING FINAL INSPECTION BATEMENT PROCEEDINGS.		
 FAILURE T SEE ATTAC 	O COMPLY WITH THIS NO CEMENT FOR ADDITIONA	DTICE WILL CAUSE AI L WARNINGS.	BATEMENT PROCEED	INGS TO BEGIN.		
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BY CONTACT IN: PHONE # 415 By:(Inspectors)	ORDER OF THE DIRECTO SPECTOR: Edward C Greene -558-6123 s Signature)	DR, DEPARTMENT OF DIVISION: BID	BUILDING INSPECTIO DISTRICT : 2	N		
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NOTICE OF VIOLATION

of the San Francisco Municipal Codes Regarding Unsufe, Substandard or Noncomplying Structure or Land or Occupancy

Pursulani to SFBC 304(e) and 332.3 investigation less are charged for work begun of performed without permits or for work exceeding the scope of permits. Such less may be appealed to the Board of Permit Appeals within 15 days of permit lesuance, at 875 Stevenson St., 4th floor. 554-6720

WARNING: Failure to take immediate action as required to correct the above violations will result in abetement proceedings by the Department of Building Important is an Order of Abelement is machine this property, the owner will be billed or the property will be flends for all applied insurted by this code enforcement procees from the profiles of the first "Notice of Violation" until All costs are paid. SPBC 203(b) & 332.3

Warevible: Section 204 of the San Frenciace Housing Code provides for immediate fines of \$100 for each instance of initial non-compliance, toRowed by \$200 fines per violation for the second instance of non-compliance, up to a maximum of \$7,500 per building. This section also provides for issuence of a criminal change as a missiameanor for each violation, resulting in fines of not less then \$1,000 per day or six months' imprisonment or bath.

WARNING: Anyons who derives raties income from housing determined by the Department of Building Inspection to be substandent <u>carinol deduct</u> from stage personal income tax and bank and corporate income tax interest, depreciation or taxes attributable to such substandard starcture. If correction work is not completed or being differently, expeditionally and administratly processed affer six (6) months from the date of this notice, notification will be sent to the Franchism Tax Board as provided in Section 17204(e) of the Plevence and Tamilian Code.

WARRING: Section 205(a) of the San Francesco Building Code provides for civil fines of up to \$500 per day for any person who violates, discharge, omus, neglects or returned to comply with or opposes the execution of any provisions of this, code. The section also provided for misdemeanor fines, if convicted, of up to \$500 and/or imprisonment up to six months for each separate offense for every day such offense occurs.

Da acuardo a las Secciones 304(s) y 332,3 de el Código de Construcción de Edificios de San Francisco, gastos de investigación serán cobredos por trabaja empezado o realizado sin los debidos permisos o por trabajo, que exceda el límite estipuísdo en los permisos. Dichos cobros pueden ser opelados ante la Junta de Apeleciones de Permisos (Board of Permit Appeals) dentro de los primeros quínce días de haberra obtenido el permiso. Las apelaciones se hacen en el 875 de la callo. Stevenson, cuerto piso, telefono 554-6720.

ADVERTENCIA: Si no cumple con les acclones immediates requiridas para corregir las infracciones, el Departamento de inspecifién de Edificios tendrá el derecho de iniciar el proceso de misigación. Si una Ordan de Miligación es registrada contra diche propiedad, les gestos incurridos durante el proceso de aplicación del código, desde la primera puesta del Aviso de infracción hasta que todos los gastes esten pagados, es la cobraran al duello del adificio o la propiedad sara embargada para recuperar dences gastes. Referencia a la Sección 203(b) y 322.3 de el Codigo de Construcción de Edificios.

ADVERTENCIA: La Sacolón 204 de el Código de Vivienda de San Francisco permite que se multe inmediatamente \$100 per tada primer desi de incontormidad, seguida por una multe de \$200 per cede segunda intracción de incontormidad, aumentando hasta un métame de \$7,000 per sada altraca Esta Sacolón también permite obtener cargos criminales como desto manor, recultando en moltas de no menos de \$1,000 dener o el metado el metado en moltas de no menos de \$1,000 dener o el metado el metado en moltas de no menos de \$1,000 dener o el metado el metado en moltas de no menos de \$1,000 dener o el metado el metado en moltas de no menos de \$1,000 dener o el metado el metado en moltas de no menos de \$1,000 dener o el metado el metado en moltas de no menos de \$1,000 dener o el metado el metado en moltas de no menos de \$1,000 dener o el metado el metado en moltas de no menos de \$1,000 dener o el metado el

ADVERTENCIA: La Seoción 205(a) de al Código de Edicios de San. Francisco impone multas civilas hasta de \$500 por cada, dia a camiguiar persona que intínta, desobedezca, milta, descuide, remas cumplir, resiste o se opione la la éjecución de las provisiones de este código. Este exección también impone multas por delito menor, si es declarado, culpable, de hasta \$500 o encancelamiento de hasta 5 mèses, o ambas, sanciones, por cada una de las etienaça y por cada día que dicha ofensa occura.

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Z d 9601 ON



March 23, 2010

Bruce Albert The Albert Group Albert Group,Inc 114 Sansome Street Suite 710 San Francisco, CA 94104

email: BAlbert@TheAlbertGroup.com

Dear Mr. Albert:

Subject: Structural Observation Report 130 Sutter Street, San Francisco

At your request we have performed a visual inspection of certain exterior façade elements. The purpose of this inspection was to assess the general condition of ornamental metal and their anchorage to the building. We were limited to inspections of the first level of these metal pieces, which are located near the elevation of the second floor. We were assisted in this inspection with the use of a man lift.

Removal of a portion of the metal cladding allowed us to inspect the interior of the metal pieces and thereby we were able to observe the attachment of these pieces to the building structure. The pieces are attached to various steel brackets which are in turn attached to steel out riggers that are an extension of the steel framework of the building. We noted that the steel brackets were not painted with in the concealed space of the metal pieces but were painted where they are exposed to the exterior. We also noted that the roof enclosure over the metal pieces appears to have been leaking for a considerable amount of time.

Of considerable concern is the condition of the steel brackets observed. Pieces of the brackets have deteriorated to the point where they are no longer functional. The steel has completed delaminated and portions of the steel members have disintegrated. It is our opinion that it is just a matter of time before portions of the façade supported by these brackets will fall off of the building.

We strongly recommend that corrective action be taken immediately. Falling protection, some of which we noted has been installed, should be reviewed and complemented if found necessary. Removal of all badly deteriorated elements should begin as soon as possible.

Please contact the undersigned with any questions or clarifications to the above.

Sincerely, MURPHY BURR/CURRY, ING President

Project Number M210-023

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imagining change in historic environments through design, research, and technology



EMERGENCY REHABILITATION OF THE 2ND FLOOR BALCONY OF THE HALLIDIE BUILDING 130 Sutter Street San Francisco, CA

INFORMATIONAL PRESENTATION FOR HISTORIC PRESERVATION COMMISSION

Prepared for The Albert Group

DECEMBER 1, 2010

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HALLIDIE BUILDING, 130 SUTTER STREET SAN FRANCISCO, CALIFORNIA



IA. SITE CONTEXT

Completed in 1918, the Hallidie Building is located at 130 Sutter Street in the Financial District of San Francisco. The building is located between Kearny and Montgomery streets in an area that consists of both mid-rise and high-rise commercial buildings.

The area remained low to mid-rise after the devastation the 1906 Earthquake and Fire until the 1950s when taller buildings were built n the area. The Hallidie Building is on the north side of Sutter Street along side other mid-rise buildings. The buildings immediately west of Kearny and across Sutter Street are also mostly mid-rise buildings. However, building heights dramatically increase as one crosses Montgomery. The Hallidie Building is in an area zoned C-3-O (Downtown Office).



View of north side of Sutter Street from Kearny Street looking

View of south side of Sutter Street from Kearny Street looking



ASSESSOR'S INFORMATION:

Block: 0288 Lot: 027 Address: 130 Sutter Street San Francisco, CA 94104 Zoning Code: C-3-0 Year Built: 1918



Aerial, 2010; source: Google Earth

HALLIDIE BUILDING, 130 SUTTER STREET SAN FRANCISCO, CALIFORNIA





McGinnis Chen Associates Inc

IB. BUILDING CONTEXT

HISTORIC CONTEXT

The Hallidie Building is recognized as one of the first glass curtain-walled structures. Designed by Willis Polk, it was completed in 1918. The building is a steel-frame and masonry structure notable for its glass and decorative metal façade. The building is listed on the National Register of Historic Places as well as on the California Register. The property is City Landmark Number 37, designated in 1971.

The glass curtain wall of the building is generally recognized as the forerunner of contemporary curtain wall buildings. The building was built as an investment for the University of California at Berkeley and its decorative metal was originally painted blue and gold. The building is named after Andrew Hallidie, the inventor of the cable car.

Though innovative in its use of a glass curtain wall, the building has a traditional composition. Its decorative ironwork is Victorian in style and its location expresses the base and capital of the building. The fire escapes are integrated into the ironwork of the building and serve to frame the building on either side. The front (south) façade of the Hallidie Building remains mostly unaltered and is much the same as when it was first constructed.

EXISTING CONDITIONS

The south façade curtain wall of the Hallidie Building exhibits distorted and rusting structural steel components including deteriorated fire escape ladders, landings and balconies as well as corroded ornamental sheet metal.

The building is suffering from two significant original design oversights. The curtain wall as designed does not allow for any thermal expansion or contraction. Any movement of the structural frame affects the alignment of the window frames and the support for the balconies. Some of the most serious damage observed at the curtain wall is associated in and around the balconies and fire escapes. These components are severely deteriorated and their structural integrity has become a life safety hazard that requires immediate attention.

The absence of an adequate weep system for water to drain off of the curtain wall is also a factor that has contributed to the deterioration of the facade. Since none of the curtain wall connections are flashed, the façade suffers from continuous water damage exhibited by the metal rust and corrosion. Water accumulates between the steel frame and balcony members and at the base of the windows, thus causing further deterioration to the overall curtain wall.





Hallidie Building, Date Unknown; source: San Francisco Public Library



Existing building; source: http://www.docomomo-us.org



PREVIOUS STUDIES

Sereral studies have been conducted as part of a scoping effort in preparation for the rehablitiation of the front facade of the Hallidie Building. Studies conducted

1. A conditions assessment conducted by McGinnis Chen in 1998. 2. A assessment of the second floor balcony by McGinnis Chen in 2002. 3. A color analysis was conducted by Page & Turnbull inMarch 2008 in order to determine the orginal colors of the metal at the front facade. This information will be used to select appropriate paint colors when the repairs are complete. 4. A metal analysis was conducted in 2010. The effort was coordinated by McGinnis Chen with an outside consultant.





PAGE & TURNBULL

2. HISTORIC PHOTOS







cisco Public Library

Hallidie Building, Date unknown; source: San Fran- Hallidie Building, Date Unknown; source: San Francisco Public Library Hallidie Building Plaque, June 6, 1951; source: San Francisco

HALLIDIE BUILDING, 130 SUTTER STREET SAN FRANCISCO, CALIFORNIA





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Public Library

McGinnis Chen Associates Inc

3. SOUTH FAÇADE: EXISTING CONDITION PHOTOGRAPHS



South facade; source: http://www.panoramio.com

Area of work will include the second and third floor balconies on the easternmost side of the building



Deterioration at decorative sheet metal



Deterioration at decorative sheet metal

HALLIDIE BUILDING, 130 SUTTER STREET SAN FRANCISCO, CALIFORNIA



3. SOUTH FAÇADE: EXISTING CONDITION PHOTOGRAPHS continued



Deterioration at structural framework



Deterioration at balcony



Deterioration at windows



Deterioration at balcony



Deterioration at balcony



HALLIDIE BUILDING, 130 SUTTER STREET SAN FRANCISCO, CALIFORNIA



4A.PROJECT TEAM

THE HALLIDIE BUILDING OWNERS

Ed Conner and Herbert McLaughlin are long-time San Francisco residents and two of the five founding members of San Francisco Architectural Heritage. They share an interest in historic buildings and have owned and rehabilitated buildings in San Francisco, Chicago, Omaha, Dallas and Cleveland. Mr. McLaughlin is the senior partner at KMD Architects. As a University of California at Berkeley alumnus, Mr. Conner has a special interest in the

THE ALBERT GROUP

Founded in 1987, The Albert Group is the project manager and owner's representative. The Albert Group has managed the restoration and renovation of numerous San Francisco buildings. They are coordinating the project team's efforts, managing communication, and overseeing project execution.

MCGINNIS CHEN ASSOCIATES

McGinnis Chen Associates, Inc. is the Architect of Record for the remediation work at the Hallidie Building. They are designing rehabilitation methodologies to improve the existing conditions and are watching over the ornamental sheet metal components.

For the last 47 years, McGinnis Chen Associates, Inc. has been providing specialized exterior building envelope consulting services to private, institutional and public sector clients. Their architectural and engineering expertise includes existing building remediation, waterproofing consultation, design peer review, construction monitoring and contract administration, complemented by a working understanding of the legal procedures involved in litigating defective buildings.

MURPHY BURR CURRY

As the project's structural engineer, Murphy Burr Curry's role is to assess the structural integrity of the balconies and fire escapes through evaluating and testing of the existing structural elements. Murphy Burr Curry will develop recommendations for structural improvements that can be implemented without sacrificing the historic character of the building.

PAGE & TURNBULL

As preservation architect for the project, Page & Turnbull works closely with the team to ensure that best preservation practices are in place. Page & Turnbull's role is to advise on historical issues so that the integrity and character-defining features of the building are retained.

Page & Turnbull's team of architects, historians, planners, and conservators use design, research, and technology to accomplish a broad array of work. Architectural services emphasize the re-use of existing buildings and the thoughtful application of new design. They are skilled in the assessment and treatment of the most significant architectural and historical spaces and elements. Page & Turnbull ensures that projects comply with the Secretary of the Interior's Standards for Rehabilitation for local, state and federal agency review and approvals.



Decorative sheet metal is being removed where there are existing seams



Cataloging and removing of decorative sheet metal



Storing of decorative metal

HALLIDIE BUILDING, 130 SUTTER STREET SAN FRANCISCO, CALIFORNIA



PAGE & TURNBULL

4B.INITIAL SCOPE

REMEDIATION OF THE SECOND FLOOR BALCONY

The project structural engineer has determined the existing framework that supports both the historic decorative sheet metal and the balconies is deteriorated and currently presents a falling hazard. To date, the work has been limited to the eastern thirty feet of the second floor balcony. It has been exploratory in nature in order to assess the extent of damage to this structural framework and to identify appropriate repairs. Given the historic significance of the building, the scope of work for the second floor balcony triggers numerous levels of consideration including historic preservation, forensic investigation, conservation, remediation, waterproofing, and disassembly and salvage of the ornamental sheet metal.

In order to properly assess the damage to the structural framework, the decorative sheet metal has been removed. The decorative sheet metal has been disassembled and removed at the east end of the second level only. All of the sheet metal components were removed in sections and disassembled at existing seams. The balcony railing was taken apart in sections connected at splice plate locations. Each item was given an Item Identification Number and photographed for documentation. Information collected during the salvage and disassembly process was entered into a digital database. As each sheet metal component undergoes a process of repair, the balcony structure will be remediated under the supervision of the structural engineer. All sheet metal pieces and railing components will be reinstalled in their original locations after the balcony remediation is complete.

In addition to the structural repairs, the exploratory work will result in an assessment that will inform a plan for the full rehabilitation of the visible elements of the balconies (decorative sheet metal and railings). After a repair approach has been developed, the rehabilitation scope will be presented to the Planning Department and Historic Preservation Commission through the submission of a Certificate of Appropriateness application.







Disassembly Diagram: Partial Second Floor Balcony Plan



Partial Second Floor Balcony Framing Plan

HALLIDIE BUILDING, 130 SUTTER STREET SAN FRANCISCO, CALIFORNIA

PROJECT TEAM & INITIAL SCOPE



Page & Turnbull

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BUILDING TECHNOLOGY

ARCHITECTURE

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