



# J.B. PASTOR BUILDING-DOLORES HISTORIC BUILDING PROTECTION & MONITORING PLAN

March 26, 2001

This plan shall satisfy the recommendation of the Preliminary Phase Two Report by Meg Clovis dated March 1, 2021 and Preservation Tech Notes by Chad Randl, see drawing pages A1.3 and A1.4.

Refer to page A1.1 for the Protection Key Notes on the site Demolition & Historic Building Protection Plan.

The last page of the Tech Notes (see attached) includes Checklists for the historic property owner and the development team. All check marks are noted for the items that apply to this project.

## PROPOSED MONITORING PLAN

1. Monthly meetings with historic property owner and development team prior to construction start. The purpose is to discuss and develop all details for the protection plan to satisfaction of the owner. Also included shall be coordination of construction hours of operation and the historic building functions.
2. Developer shall create detailed photographic record of the exterior walls facing construction site. Any damage to these walls prior to construction shall be noted in this record. The report shall be reviewed and approved by the owner.
3. Weekly monitoring schedule of the construction impact to historic building by the owner's and developer's representative, which shall identify any damage, evaluate efficacy of protective measures already in place and to identify and implement additional corrective steps.

4. Development, owner and City approvals and construction of the repairs to historic building due to demolition work of the community building. This shall include the following:
  - a) New fire exit plan from the historic building due to demolition of bridge-walkway.
  - b) Proposed repair of any exterior finishes due to demolition using finishes matching existing ones.
  - c) Proposed replacement of bridge-walk removal by new wall or window which shall match the existing ones.
5. Schedule of historic building HVAC system filter cleaning or replacements.

The following check lists shall be used to finalize the Historic Building Protection Plan:

#### **Checklist for Historic Property Owner and Historic Site**

- Consult with developer, and other parties to determine extent of work and identify necessary proactive measures
- Conduct survey of existing conditions, including photographs, crack inventory, and description of other damage
- Include historic building in construction site fire plan
- Place plywood coverings on openings that face construction area
- If construction is directly adjacent, cover historic façade to protect against mortar and acidic cleaning solution
- Install temporary floor coverings at entrance and seal windows facing construction site to limit dust infiltration
- Clean HVAC system & filters on accelerated schedule
- Establish monitoring program, including:
  - 1) Seismograph to ensure that effects of blasting, pile driving, and other work are at acceptable levels
  - 2) Crack monitors and optical survey methods to detect movement
  - 3) Schedule of regular visual inspection

### **Checklist for Development Team and Construction Site**

- Consult with historic property owner and other relevant parties to identify necessary proactive measures
- Review and sign off on pre-construction condition survey of adjacent property
- Arrange delivery locations and times to limit disruption and possible damage to neighboring historic structure
- Explore excavation and demolition methods that produce low vibration levels
- Limit movement of adjacent building with sufficient underpinning or reinforced exaction walls
- Reduce changes to adjacent ground water level during dewatering
- Ensure water runoff is not directed towards historic structure
- Install fabric encloser system to reduce spread of construction dust
- Include adjacent historic building fire plan and ensure fuels, rags, and brushes are stored appropriately and not directly adjacent to historic site
- If asbestos or lead remediation is involved, ensure exhaust from sealed building is filtered and vented away from historic site and lead chips are gathered and removed
- Participate in monitoring program at historic site to ensure that vibration levels or indications of movement are within established thresholds

Attachments:       HBC application architectural plans dated 3/26/21  
                          Email copy of meeting request with historic building owner

## Alem Dermicek

---

**From:** Christopher Mitchell <christopher.mitchell@pastor-realestate.com>  
**Sent:** Friday, March 26, 2021 11:08 AM  
**To:** Jeffrey Peterson  
**Subject:** JB Pastor Project, Carmel  
**Attachments:** Tech-notes-protection03.pdf; Seventh & Dolores\_PhaseTwo (Community Room)[3025].pdf

Jeff

I hope you are well?

We are now progressing with our planning process for the JB Pastor Project. Next to your building.

For the historic review board we are obliged to develop a plan with you to make sure that we protect your building. Which will include provisions monitoring during construction to ensure the building is not damaged. Please find attached the two documents which outline the requirements for the protection plan.

We would like to set up a meeting with you in the near future to review and agreed this plan with you.

Our architects are currently drafting the plan. Which should be ready early next week. I will send this to you in advance of any meeting.

Would you be available for a Zoom call next week with myself and our project team so we can explain everything?

Have good weekend.

Kind regards

Chris

**Christopher Mitchell**  
BSc (Hons) MRICS

48 Curzon Street  
London W1J 7UL

T. +44 (0) 203 195 9595  
M. +44 (0) 7776 173 448  
[Zoom link](#)



LONDON | MONACO



[www.pastor-realestate.com](http://www.pastor-realestate.com) [www.esperanzacarmel.com](http://www.esperanzacarmel.com)

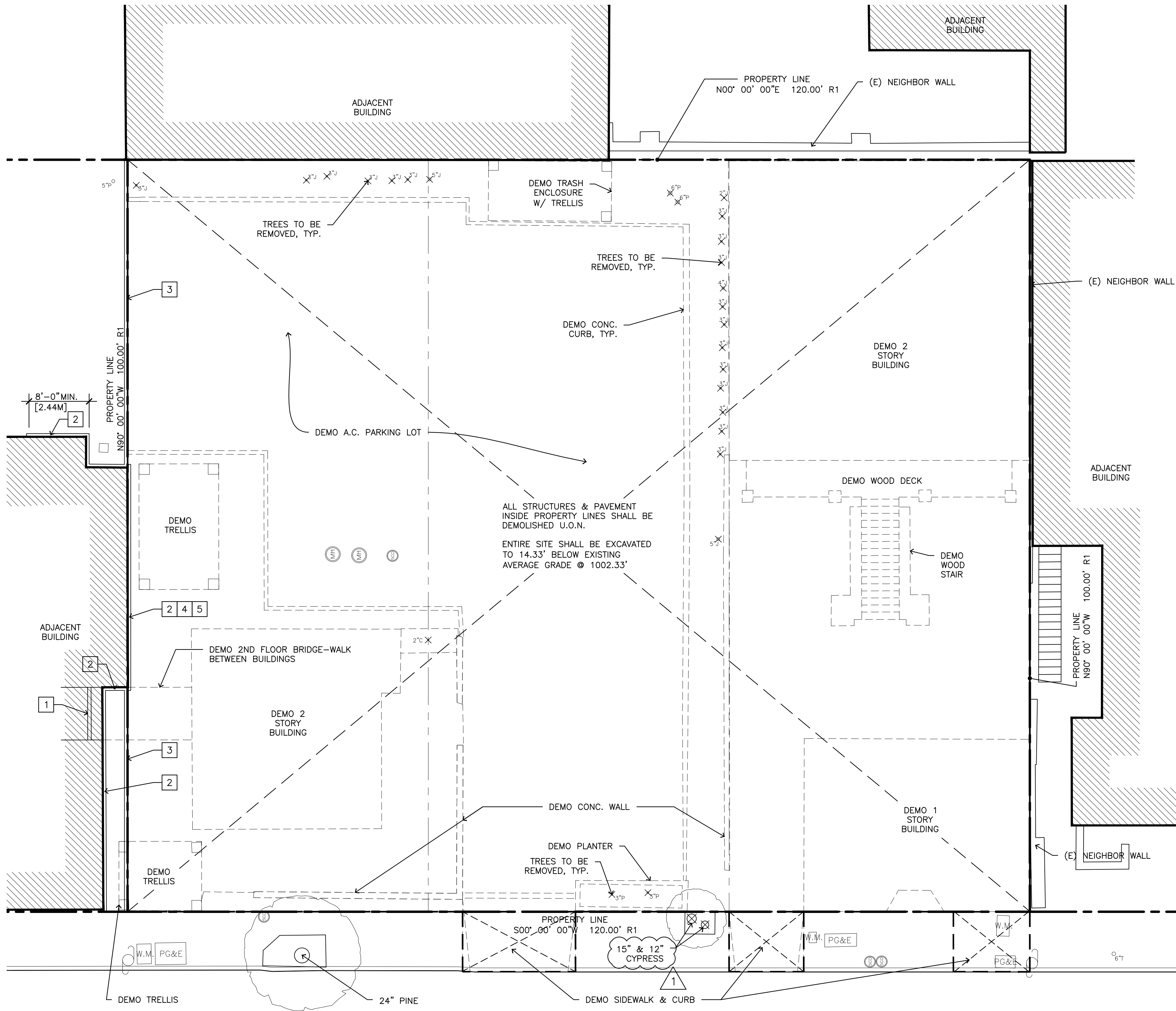


Please note that any advice contained in, or attached to, this email is informal and given purely as guidance unless otherwise explicitly stated. Our views on price are NOT expressed or intended as a formal valuation and should not be relied upon as such. They are given in the course of our estate agency role. No liability is given to any third party and any advice attached is not a formal valuation, and neither Pastor Real Estate nor the author can accept any responsibility to any third party who may seek to rely upon it, either in full or any part as such. If formal advice is required this will be stated explicitly along with our understanding of the purpose and limitations. All negotiations are Subject To Contract & Without Prejudice.

The information contained in this message is confidential and may be legally privileged. The message is intended solely for the addressee(s). If you are not the intended recipient please notify the sender immediately. You are hereby notified that any use, dissemination or reproduction is strictly prohibited and may be unlawful. Whilst all efforts are made to safeguard emails Pastor Real Estate and / or Esperanza Carmel LLC cannot guarantee that attachments are virus free or compatible with your systems and as such accept no liability in respect of viruses or other computer problems experienced.

Any views and opinions expressed in this e-mail may not reflect the views and opinion of Pastor Real Estate or Esperanza Carmel LLC.

All emails to anyone at Pastor Real Estate or Esperanza Carmel LLC are communications to the firm and not private and confidential to any named individual. Pastor Real Estate is a member of the S.A.M Pastor Immobilier Group | Registered in England and Wales | Company Reg. No. 07319695 | Registered Office: 48 Curzon Street, London W1J 7UL, UK | VAT Reg. No. GB103 9158 33 | Esperanza Carmel LLC Office - 7<sup>th</sup> Avenue 2 NW of Lincoln, Carmel CA 93921, USA



TREE REMOVAL

TREE	SIZE	QUANTITY
JUNIPER	5"Ø	2
JUNIPER	4"Ø	1
JUNIPER	3"Ø	17
JUNIPER	2"Ø	1
PINE	6"Ø	2
PINE	3"Ø	2
CHERRY	2"Ø	1

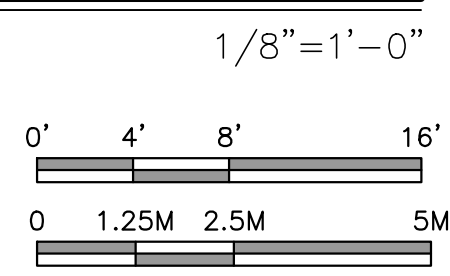
TOTAL TO BE REMOVED: 26 - PRIVATE PROPERTY  
CYPRESS 15"Ø 1  
CYPRESS 12"Ø 1  
TOTAL TO BE REMOVED: 2 - PUBLIC PROPERTY  
26 PRIVATE + 2 PUBLIC  
TOTAL TO BE REMOVED: 28

HISTORIC BUILDING PROTECTION PLAN KEY NOTES

- 1 CONSTRUCT BARRICADE WALL TO CLOSE OPENING TO BRIDGE-WALK INSIDE OF (E) BUILDING PRIOR TO ANY DEMOLITION WORK.
- 2 PROVIDE FULL HEIGHT VINYL SHEET TO WALL FOR DUST PROTECTION. ALSO IT SHALL SEAL DOORS, WINDOWS & OTHER OPENINGS PRIOR TO ANY DEMOLITION WORK.
- 3 CONSTRUCT 6' HIGH SELF-SUPPORTING PLYWOOD BARRICADE WALL
- 4 ITEM 3 OVER ITEM 2. DEVELOPMENT TEAM SHALL DESIGN THIS WALL W/O ANY ATTACHMENTS TO (E) BUILDING.
- 5 DEVELOPMENT TEAM TO DESIGN & PROVIDE UNDERPINNING OF (E) BUILDING. FOOTING AS REQUIRED BY THE CONSTRUCTION OF BASEMENT GARAGE.

SITE DEMOLITION PLAN

DOLORES STREET



721 LIGHTHOUSE AVE  
PACIFIC GROVE CA.  
93950

PH (831) 646-1261  
FAX (831) 646-1260  
EMAIL idg@idg-inc.net  
WEB idg-inc.net

DISCLAIMER:  
ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF THIS OFFICE AND WERE CREATED, EVOLVED AND DEVELOPED FOR USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF INTERNATIONAL DESIGN GROUP. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS OF ADEQUATE SCALE MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION ON ITEMS SO NOTED.

STAMPS:

PROJECT/CLIENT:

JB PASTOR  
BUILDING

PROJECT ADDRESS:

DOLORES, 2ND SE  
OF 7TH  
CARMEL, CA  
93921

APN: 010-145-012  
022, & 023

DATE: DECEMBER 18, 2020  
TRACK-2 SUBMITTAL

REVISIONS:

- MARCH 4, 2021  
FOREST & BEACH COMMISSION
- MARCH 26, 2021  
HISTORIC BOARD COMMISSION

SITE DEMO &  
HISTORIC BLDG.  
PROTECTION PLAN

SHEET NO.



March 1, 2021

Preliminary Phase Two Report for the Palo Alto - Salinas Savings and Loan Bank, Community Room, Parking Lot, and Garden Wall (APN 010-145-020), Carmel-by-the-Sea, CA.

Executive Summary

The Palo Alto-Salinas Savings and Loan community room, parking lot, and garden wall are part of a larger complex that features the original main bank building as its focal point. All elements in the complex are located on the corner of Dolores and Seventh Streets in downtown Carmel. The bank building has been evaluated for historical significance multiple times. In October 2019<sup>1</sup> the bank building was found eligible for listing in the California Register for Historic Resources (CRHR) under Criterion Three (Architecture) but is currently not eligible for listing on the Carmel Historic Resources Inventory or the National Register of Historic Places due to the Fifty-Year Rule. Nonetheless, it is considered a significant resource for the purposes of CEQA with a period of significance of 1972.

In June 2020<sup>2</sup> the bank's companion community room was evaluated for historical significance under the California Register for Historic Resources criteria and was found ineligible for listing as an individual resource. The garden wall and parking lot have not been evaluated for their individual merit within the complex, however their history and a determination of eligibility will be included as part of this report.

An application has been submitted to the Carmel Planning Department proposing the demolition of the community room, parking lot and garden wall to allow for the construction of an underground parking garage and a two-story building with a combined use of second floor residential apartments and ground floor commercial space. This Phase Two report examines the project's consistency with the *Secretary of the Interior's Standards and Guidelines*<sup>3</sup> based on preliminary plans and makes recommendations which will help guide final plans.

Parking Lot & Garden Wall: Historical Background and Significance

The Palo Alto-Salinas Savings and Loan complex was constructed in 1972 on the corner of Dolores and 7<sup>th</sup> streets in the same location as it's former building. The former building (originally the telephone company) fronted on Seventh Street. An eighteen-space parking lot was located behind the building and was entered and exited via Dolores Street. Plans for the new bank building reconfigured the space, so most of the bank's facade and the community room fronted on Dolores Street. The parking lot, again with eighteen spaces, wrapped around the rear of the new building and was entered on Dolores Street and exited on Seventh. An article in the *Carmel Pine Cone* stated that, "parking facilities are less visually

<sup>1</sup> Clovis, Meg. *Evaluation of Significance and Phase Two Report for Seventh & Dolores (formerly the Palo Alto Savings and Loan complex)*, October 3, 2019.  
<sup>2</sup> Clovis, Meg. *Addendum to Evaluation of Historical Significance for Seventh & Dolores (formerly the Palo Alto Savings and Loan Complex)*, June 17, 2020.  
<sup>3</sup> *The Secretary of the Interior's Standards for the Treatment of Historic Properties with Guidelines for Preserving, Rehabilitating, Restoring & Reconstructing Historic Buildings*. U.S. Department of the Interior, National Park Service. Technical Preservation Services, Washington D.C., 2017.

obtrusive than they are now, stretching around behind the buildings".<sup>4</sup> A drive-up teller window could be accessed from the Seventh Street side of the parking lot and was included in the original construction.

The same *Pine Cone* article that described the future parking facilities also described the garden wall that would partially surround the community room. Originally, a small sculpture garden was planned for the walled space but it never came to fruition. In 2013 a portion of the wall on the south elevation was removed and the entire wall was shortened by twelve inches.

When it was constructed in 1972, the Palo Alto-Salinas Savings and Loan complex included a bank building, a community room, a parking lot, and a wall which surrounded the community room. Historical evaluations have concluded that the bank building is eligible for listing on the California Register of Historic Resources on the local level under Criterion Three (Architecture) because it embodies the distinctive characteristics of a type and period, and it represents the work of two Masters. The community room is not eligible for individual listing on the California Register on its own merit because it does not meet Criterion One (Events), Criterion Two (People), or Criterion Three (Architecture).

Like the Community Room, the parking lot and garden wall are not individually eligible for listing in the California Register. Following is an analysis of their eligibility based on CRHR designation criteria:

- ***Associated with events that have made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California or the United States (Criterion One)***  
There were no events in the parking lot or in the space enclosed by the garden wall that made a significant contribution to the broad patterns of local or regional history or the cultural heritage of California or the United States. The parking lot and garden wall are not eligible for listing under Criterion One.
- ***Associated with the lives of persons important to local, California or national history (Criterion Two)***  
The parking lot and garden wall did not play a significant role in the lives of any people important to local, California, or national history and they are not eligible for listing under Criterion Two.
- ***Embodies the distinctive characteristics of a type, period, region, or method of construction or represents the work of a master or possesses high artistic values (Criterion Three)***

The parking lot and garden wall are generic in design and do not exhibit the distinctive characteristics of a type, period, region, or method of construction. The parking lot in particular was designed to be unobtrusive and not to detract from the main bank building. Although the parking lot and community room were included in the Shaw and Burde plans for the complex, their creative energies were focused on the main bank building. The parking lot supported the bank's functions by offering customers convenient access. The garden wall never enclosed a sculpture court and in 2013 a portion of the wall was removed plus the entire wall was lowered by a foot, thus diminishing its original design and purpose. At one time, both the parking lot and

<sup>4</sup> *Carmel Pine Cone*. September 30, 1971, p. 19.

wall supported the bank's function but they do not contribute to the bank's distinction as a significant local representative of the Bay Region style of architecture. Neither can be considered a historic resource on their own merit and they are not eligible for listing under Criterion Three.

The Secretary of the Interior's Standards for Rehabilitation

Compliance Evaluation

As a historical resource, the Palo Alto-Salinas Savings and Loan Bank building is subject to review under the California Environmental Quality Act (CEQA). The parking lot, community room, and wall are not historic resources and are not individually subject to CEQA, however the impact of their proposed demolition on the historic resource is relevant under several of the Standards. Generally, under CEQA, a project that follows the *Standards for Rehabilitation* contained within *The Secretary of the Interior's Standards for the Treatment of Historic Properties* is considered to have mitigated impacts to a historical resource to a less-than-significant level (CEQA Guidelines 15064.5).

The impact of the proposed demolition of site features within the Palo Alto-Salinas Savings and Loan Bank complex are reviewed below with respect to the *Rehabilitation Standards*. The Standards are indicated in italics, followed by a discussion regarding the project's consistency or inconsistency with each Standard.

Standard One

*A property will be used as it was historically or be given a new use that requires minimal change to its distinctive materials, features, spaces, and spatial relationships.*

The bank building has been used as a bank, retail store and most recently as a restaurant. These different uses have required minimal change to its distinctive materials, features, spaces, and spatial relationships. The community room is separated from the main bank building by a walkway. Sheet A1.0 indicates that the proposed adjacent construction will be separated from the bank building by a new walkway. The new walkway will help to maintain spatial relationships between the buildings however that spatial relationship should be maintained from the ground level to the roof by a setback of the north elevation from the bank building. It is also recommended that the proposed walkway be the same width as the current walkway.

Standard Two

*The historic character of a property will be retained and preserved. The removal of distinctive materials or alteration of features, spaces, and spatial relationships that characterize the property will be avoided.*

The historic character of the bank building will not be altered. No distinctive materials will be removed. Features, and spaces will not be altered. The spatial relationship between the bank and the community room which has been established by the walkway separating the two should be maintained as part of the new construction. *The Secretary of the Interior's Guidelines for Rehabilitation* recommend that any new construction adjacent to a historic structure should be placed away from or at the side or rear of a historic building and must avoid obscuring, damaging, or destroying character-defining features of the building. It appears from the Site Plan that the bulk of the new building will be located behind the bank and set back from Seventh Street. The proposed work appears to be consistent with Standard Two.

Standard Three

*Each property will be recognized as a physical record of its time, place, and use. Changes that create a false sense of historical development, such as adding conjectural features or elements from other historical properties, will not be undertaken.*

No conjectural features or architectural elements that would create a false sense of history will be added to the historic resource. This Standard is not applicable.

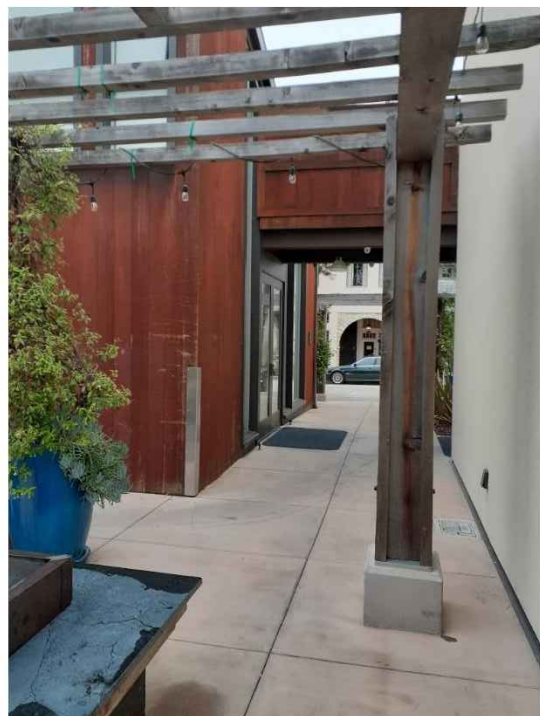
Standard Four

*Changes to a property that have acquired historic significance in their own right will be retained and preserved.*

The bank building has changed very little over time and there are no features that have achieved significance in their own right. This Standard is not applicable.

Standard Five

*Distinctive materials, features, finishes, and construction techniques or examples of craftsmanship that characterize a property will be preserved.*



The community room will be demolished as part of this project. It is connected to the main bank building at the second-floor level by an elevated walkway. When the community room is demolished a gap will be created in the exterior wall of the bank building. The wall should be repaired by matching the original wall in design, color, texture, and if possible, materials. If this is clearly indicated on the construction plans, then the work will be consistent with Standard Five.

It is important that a historic structure be protected during adjacent construction. Demolition activities and construction on neighboring sites can cause immediate harm to the physical integrity of a historic building through concentrations of dust, fire, vibration, and more. The National Park Service provides guidance for the temporary protection of historic structures in Preservation Tech Note Number 3<sup>5</sup> (attached to this report).

Providing adequate protection involves the following steps:

1. Consultation between the historic building owner and development team to identify potential risks, negotiate changes and agree upon protective measures.

<sup>5</sup> Preservation Tech Notes, *Protecting a Historic Structure during Adjacent Construction*. Technical Preservation Services, National Park Service, 2001.

2. Documentation of the condition of the historic building prior to adjacent work.
3. Implementation of protective measures at both the construction site and the historic site.
4. Regular monitoring during construction to identify damage, to evaluate the efficacy of protective measures already in place, and to identify and implement additional corrective steps.

Work will be consistent with Standard Five if a protection plan is submitted to the HRB for review and approval prior to the commencement of any work on the proposed project.

Standard Six

*Deteriorated historic features will be repaired rather than replaced. Where the severity of deterioration requires replacement of a distinctive feature, the new feature will match the old in design, color, texture, and where possible, materials. Replacement of missing features will be substantiated by documentary and physical evidence.*

No work will be done on the historic bank building except for the repair of the wall juncture between the community room and bank. As stated in Standard Five, the repair of the bank wall should match the original wall in design, color, texture, and where possible, materials. Construction plans should clearly indicate how the wall will be repaired in order to be consistent with Standards Five and Six.

Standard Seven

*Chemical or physical treatments, if appropriate, will be undertaken using the gentlest means possible. Treatments that cause damage to historic materials will not be used.*

Surface cleaning is not proposed for the historic resource. This Standard is not applicable.

Standard Eight

*Archaeological resources will be protected and preserved in place.*

The current parking lot will be demolished, and a 10,746 square foot basement area will be excavated which will serve as a parking garage, gym, and support services for the new building. Because there will be major ground disturbance, an archeological report should be prepared to evaluate whether any resources are present. If resources are discovered, appropriate mitigation measures should be implemented. The proposed work will be consistent with Standard Eight once an archaeological report is completed.

Standard Nine

*New additions, exterior alterations, or related new construction will not destroy historic materials, features, and spatial relationships that characterize the property. The new work shall be differentiated from the old and will be compatible with the historic materials, features, size, scale, and proportion, and massing to protect the integrity of the property and its environment.*

The new construction will demolish the parking lot, community room, and garden wall which are part of the bank complex however they are not significant in their own right. These features supported the bank's former function but do not support its eligibility under Criterion Three (Architecture). They are

not considered character-defining features. The pathway separating the community room and the bank creates an important spatial relationship that should be preserved, as discussed under Standards One and Two. The proposed work appears to be consistent with Standard Nine.

Standard Ten

*New additions and adjacent or related new construction will be undertaken in such a manner that, if removed in the future, the essential form and integrity of the historic property and its environment would be unimpaired.*

If removed in the future, the proposed new construction adjacent to the historic bank building will not impair the historic property and environment only if care is taken to remove the building following the guidance provided in Preservation Tech Note Number 3 and described under Standard Five.

Conclusion

The former Palo Alto-Salinas Savings and Loan complex consists of the historic bank building, a community room, a parking lot and garden wall. The primary building within the complex is the bank, and the property's architectural significance is predicated on the bank, not the community room which is simply an ancillary structure. The community room has been evaluated for eligibility for listing in the California Register based on its merits alone and it does not meet the criteria for listing as an individual resource.

The proposed project will meet Standards One, Two, Five, Six, Eight, Nine, and Ten of the Secretary of the Interior's Standards and Guidelines for Rehabilitation on the condition that recommendations in this report are carried out. Standards Three, Four, and Seven are not applicable to this project. If the proposed project meets the aforementioned Standards then the project will not have a significant impact on the historic bank building.

Respectfully Submitted,

Margaret Clovis

JUN A. SILLANO, AIA



ARCHITECTURE • PLANNING • INTERIOR DESIGN

721 LIGHTHOUSE AVE  
PACIFIC GROVE CA.  
93950

PH ■ (831) 646-1261  
FAX ■ (831) 646-1290  
EMAIL ■ idg@idg-inc.net  
WEB ■ idg-inc.net

DISCLAIMER:  
ALL IDEAS, DESIGNS, ARRANGEMENTS AND PLANS INDICATED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF THIS OFFICE AND WERE CREATED, EVOLVED AND DEVELOPED FOR USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENTS OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON, FIRM OR CORPORATION FOR ANY PURPOSE WHATSOEVER WITHOUT THE WRITTEN PERMISSION OF INTERNATIONAL DESIGN GROUP. WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALE DIMENSIONS. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATION FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. SHOP DETAILS OF ADEQUATE SCALE MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION ON ITEMS SO NOTED.

STAMPS:

PROJECT/CLIENT:

JB PASTOR  
BUILDING

PROJECT ADDRESS:

DOLORES, 2ND SE  
OF 7TH  
CARMEL, CA  
93921

APN: 010-145-012  
022, & 023

DATE: DECEMBER 18, 2020

TRACK-2 SUBMITTAL

REVISIONS:

- △ MARCH 4, 2021  
FOREST & BEACH COMMISSION
- △ MARCH 26, 2021  
HISTORIC BOARD COMMISSION
- △ \_\_\_\_\_
- △ \_\_\_\_\_
- △ \_\_\_\_\_
- △ \_\_\_\_\_
- △ \_\_\_\_\_

HISTORIC  
PRESERVATION  
CONDITIONS

SHEET NO.

A1.3







IDENTIFYING AND AVOIDING RISKS FROM ADJACENT CONSTRUCTION

Valued for their ability to convey the past through existing materials and features, historic buildings must also survive in an ever-changing present. That change is often characterized by new building construction and demolition activities on neighboring sites. Whether it is the modest renovation of an existing building or the demolition of an existing structure and construction of a new high rise, physical damage to an adjacent historic building may occur. It is important for both the historic property owner and those responsible for the neighboring work to give careful consideration to the potential risks. Early planning offers the opportunity to identify these risks and determine successful ways to avoid them.

Problem

The forces that contribute to the deterioration of a historic building, from atmospheric pollutants to the footsteps of visitors, often take decades and even centuries to exact their toll. Demolition activities and new construction on neighboring sites, however, can cause immediate harm to the physical integrity of a historic structure. In the instant it takes an improperly planned excavation blast to crack the foundation of an adjacent historic structure, or for a

steel beam to be dropped from a construction crane onto its roof, significant damage may occur. Additionally, adjacent construction work can expose the neighboring historic building to concentrations of dust, vibration and fire hazards that would normally be experienced only over the course of many years.

These concerns are often overlooked when a project is undertaken next to historic resources. In some situations, the historic property manager may be unaware of the nature and extent of work at an neighboring site. In other cases, the new construction team is not familiar with the particularly fragile character of the neighboring historic structure or decides to repair any damage after the fact rather than avoiding it from the beginning.

Solution

Effective planning and protective measures initiated before construction takes place can prevent most of the damage that may occur to adjacent historic buildings. Depending upon the nature of the project, protective measures may be limited to documenting and monitoring the historic structure or may encompass a broader plan that includes encasing windows, indepen-

dent review of excavation procedures and a range of other precautions. Cooperation between all parties can help to ensure that construction activity continues without interruption and that the neighboring historic building is preserved unharmed.

The information provided in this Tech Note can serve as a basis for discussions between the historic property manager and the developer of the adjacent site aimed at ensuring the protection of the historic building in a cost-effective manner. This guidance is also applicable where non-structural work is undertaken on the same site as the historic structure.

Although adjacent construction work often poses a significant threat to the incremental impacts of weather or pollution, the best defense for both situations is that buildings be in good condition. A well maintained structure with tight mortar joints, strong connections between interior and exterior walls, solid foundations and sound plaster is at less risk from neighboring activity than a neglected structure.

Providing adequate protection involves the following steps: 1. consultation between the historic building owner and development team to identify potential risks, negotiate changes and agree upon protective measures; 2. documentation of the condition of the historic building prior to adjacent work; 3. implementation of protective measures at both the construction site and the historic site; and 4. regular monitoring during construction to identify damage, to evaluate the efficacy of protective measures already in place, and to identify and implement additional corrective steps.

Consultation

Early consultation between the historic property owner and the developer of the neighboring construction site is the first and often most important step. Establishing such contact has many advantages. Consultation provides the foundation for a mutually beneficial relationship that is cooperative rather than adversarial. The process gives the historic site owner an opportunity to become familiar with the scope of the impending project and for the development team to understand the historic structure's vulnerabilities. Consultation permits all parties a chance to propose, discuss, and negotiate changes to the construction plan that reduce the risk of damaging adjacent historic

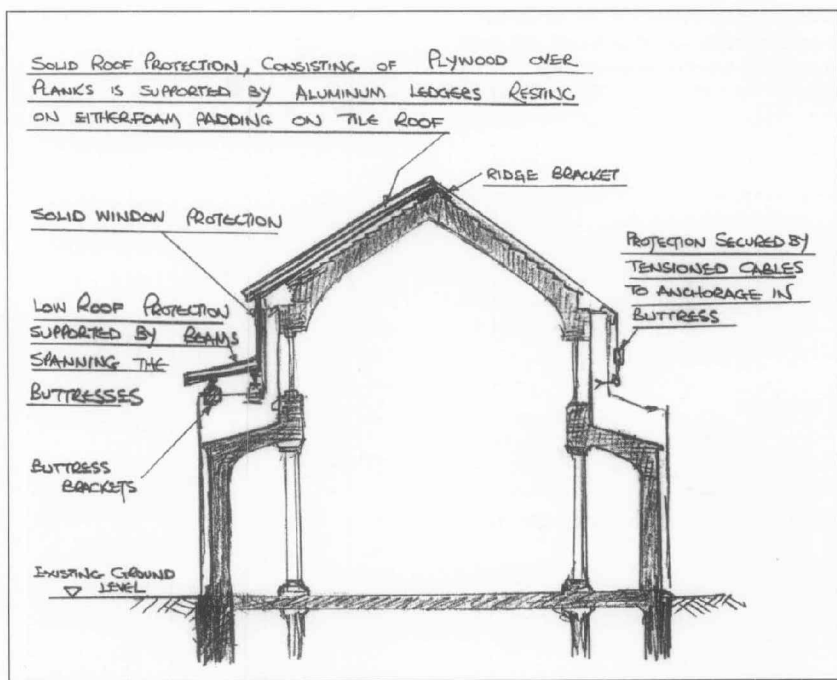


Figure 1. Before new construction was undertaken to the left of this church, a subcontractor was hired to design a protective system for the tile roof and clerestory windows. Drawing: Alan Shadler, Universal Builders Supply, Inc.



TEMPORARY PROTECTION NUMBER 3

Protecting a Historic Structure during Adjacent Construction

Chad Randl  
Technical Varying Risks  
National Park Service

tractor should be discussed and arranged to minimize disruptions to the historic site.

Documentation

A crucial step following consultation with the developer is to document the existing condition of the historic structure. Such an investigation provides a "baseline" from which changes to the building during the adjacent construction can be identified, monitored and assessed. Like the consultation process, thorough documentation benefits both the historic property owner and the developer. For the former, it may be used to substantiate claims that damage occurred as a result of the neighboring construction work by illustrating the previously sound condition of the historic building. If the damage existed prior to construction work, the record can show that it was not caused by the developer's negligence. In the case of future litigation, the documentation record can serve as evidence along with the testimony of the professional who undertook the assessment.

Both parties should ensure that the documentation is objective and accurate. Joint surveys, in which both the developer and the historic property owner participate or sign off on noted conditions, are most likely to ensure that the resulting data are not in dispute. When the developer pays for the assessment, it is advisable that an independent professional be hired and that the survey results be accessible.

Information obtained through documentation can also be used in formulating a protection plan for the historic building. By characterizing existing damage and exposing potential weaknesses, the documentation process identifies areas of the structure that may require additional protection as well as appropriate locations for monitoring equipment. Features that should receive particular attention during visual inspections would also be highlighted. Although a formal building condition survey including analysis, repair proposals and cost estimates is not necessary, the property owner may find that the disruptive period during adjacent work provides an opportune time for a thorough survey program.

Documentation of existing conditions should take the form of written descriptions, 35mm color photographs and/or a videotape recording. Photographs should show both the interior and exterior of the building, with

close-up images of cracks, staining, indications of settlement or other fragile conditions. A complete interior and exterior crack survey should be undertaken to identify and characterize existing cracks (see Figure 2). Their locations can then be plotted on a drawing of each wall or ceiling surface. While identifying every hairline crack may be impractical in a large building or one that exhibits a great deal of preexisting damage, the more thorough the documentation recording the better. The condition of features such as arches, chimney stacks and parapet walls determined by the engineer to be particularly susceptible to distress should also be recorded even when no damage is apparent.

Common Risks and Measures

Each instance of new construction or demolition next to an existing historic structure will involve varying risks to that structure. The proximity of the historic site to the project and the scope of the project are two of the most significant variables. Construction of a high rise building with deep foundations is more likely to affect a neighborly structure than the rehabilitation of a nearby rowhouse. However, the converse may be true if the rowhouse is

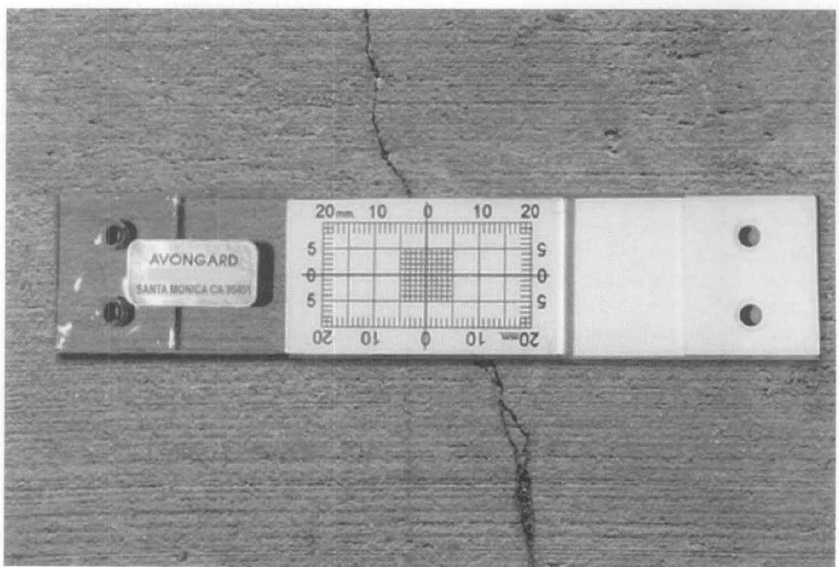


Figure 2. With advanced notice of adjacent construction activity, a crack monitor can be used to determine whether existing cracks in the historic building are stable or still experiencing movement. Compared with measurements taken during the monitoring phase, such information can help determine if subsequent movement resulted from work on the neighboring site. Photo: Avangard Products U.S.A., Ltd.

building. New construction almost invariably calls for digging a foundation that is much deeper than the foundations of neighboring historic buildings. This is especially true for projects that include underground parking garages, basements and impervious shallow masonry or stone foundation and wall footings, may experience corresponding displacement that can result in major structural damage. Efforts to control movement should begin during the consultation phase. Whether the developer's engineer selects underpinning or strengthened excavation walls with tie backs as the means to resist movement of the adjacent structure, the historic building team should retain its own engineer to review the plans (see Figure 3). The consulting engineer should ensure that the selected approach addresses the unique characteristics and vulnerabilities of the historic structure and that even incidental movement is restricted.

Water

A well functioning water drainage system is essential to the protection of any historic structure. This system can easily be rendered ineffective by neighboring construction or demolition work. Debris originating at the construction site often finds its way to the gutters, downspouts and drains of an



Figure 3. Concrete pier underpinning to an existing building may be necessary when adjacent construction occurs. In this example, piles are hand dug beneath the foundation of the historic building to provide a secure base for new columns. After the concrete is poured into the holes, the top of the pier and the bottom of the original foundation is packed with a quicksetting grout. The historic building owner should retain an independent engineer to ensure that the underpinning plan adequately protects the historic structure. Photo: Professor Arpad Horvath, Department of Civil and Environmental Engineering, University of California, Berkeley.

Mitigating the effects of vibrations

Mitigating the effects of vibrations should begin during the consultation process when acceptable levels can be set and alternative processes explored. Hand demolition is an appropriate substitute when conventional demolition activities may cause excessive vibrations. If pile driving is likely to damage adjacent structures, the contractor may be able to employ non-displacement piles that are inserted in bored holes rather than driven. Lower vibration levels can also be achieved by "jacking-in" or pressing the piles into the ground. Locating delivery entry and exit points farther from the historic site may reduce vibrations caused by increased vehicular traffic. Once construction is under way, continual crack and vibration monitoring provides an effective warning system, indicating that established safe thresholds have been crossed.

Excavation and foundation work

Excavation and foundation work can also cause ground displacement and movement of an adjacent historic

information passed on to the appropriate contractors. Final landscaping and grading patterns on adjacent construction sites should be examined to ensure that rainwater is not routed towards the historic building.

In some cases, the lack of water beneath an historic structure can lead to damage. Buildings located in areas with a high water table were often constructed upon timber piles. When groundwater or storm water is removed from a neighboring site during foundation excavations (a process known as "dewatering"), the groundwater level beneath the historic site may also drop. Previously submerged timber piles that are exposed to air can quickly begin to undergo dryrot. If there is reason to suspect that the structure was built on such a foundation, the property manager should work with the neighboring construction team to maintain the existing water table. This can be done using watertight excavation support systems such as slurry walls which ensure that most of the water pumped out of the construction site does not come from adjacent properties.

Dewatering of soft clay ground may also result in settlement of a neighboring building, as ground water pressure is reduced and the soil consolidates. Fire and Security Concerns

The heightened possibility of fire accompanies many demolition and new construction activities. Temporary heating devices, torches, sparks, molten metal and undersized electrical utility panels are some of the most common sources of fire at construction sites. Additionally, the improper storage of fuels, cloth rags and brushes also presents opportunities for fire to ignite and spread. The Tech Note, "Specifying Temporary Protection of Historic Interiors during Construction and Repair," provides detailed information on reducing the likelihood of fire in situations involving work near historic structures.

The security of a historic building can be threatened when adjacent construction provides opportunities for illegal entry. Newly constructed floor levels at the building site may mask the neighboring historic structure's ledges, windows and rooftops accessible to trespassers. Window openings on the historic building should be fastened and all doors from the roof to the interior should be locked. Where a historic structure is protected by an intruder

basement floor. More comprehensive measurements can be obtained by locating sensors at several points throughout the structure and the ground immediately adjacent to the historic building foundation (see Figure 6).

Secure windows and rooftop doors that are made accessible by new construction are mandated by law or left to the discretion of a project engineer, thresholds should take into account surrounding soils, the makeup and content of the adjacent foundation and the particular vulnerabilities of the historic resource. Construction projects that involve major excavation work next to historic structures should include a program of test blasting before work begins. Testing various charges, delays and blast design configurations will aid in developing a controlled program that limits blast induced damage to a neighboring property.

Structural movement as described in the preceding section is detected and recorded using a number of different tools. Electronic monitors that feed precise movement measurements to laptop computers can be placed across existing cracks (see Figure 7). When budgets are tight or a large number of cracks are involved, inexpensive tell-tales made from two sheets of overlaid plastic with a grid can be used to track changes.

Optical survey instruments provide another means of detecting vertical and lateral movement within a historic building. Control points are established and marked by targets or reflectors on the historic structure facade and interior walls before adjacent construction begins. The location of these markers is precisely measured at regular intervals. Engineers then use the resulting information to determine whether the markers have shifted from their original positions and, if so, the rate and direction of movement.

A program of visual inspections undertaken by a qualified conservator or engineer is an important adjunct to technical monitoring procedures. Inspectors should look for newly opened cracks, other signs of settlement and movement, and evidence of increased dampness or water infiltration. Additionally, visual inspections should ensure that temporary protective coverings are secure, that dust and dirt are not accumulating in the historic building, and that fire and hazardous material protection provisions are being upheld. A checklist can be drawn up during the consulting and documentation phases for use during

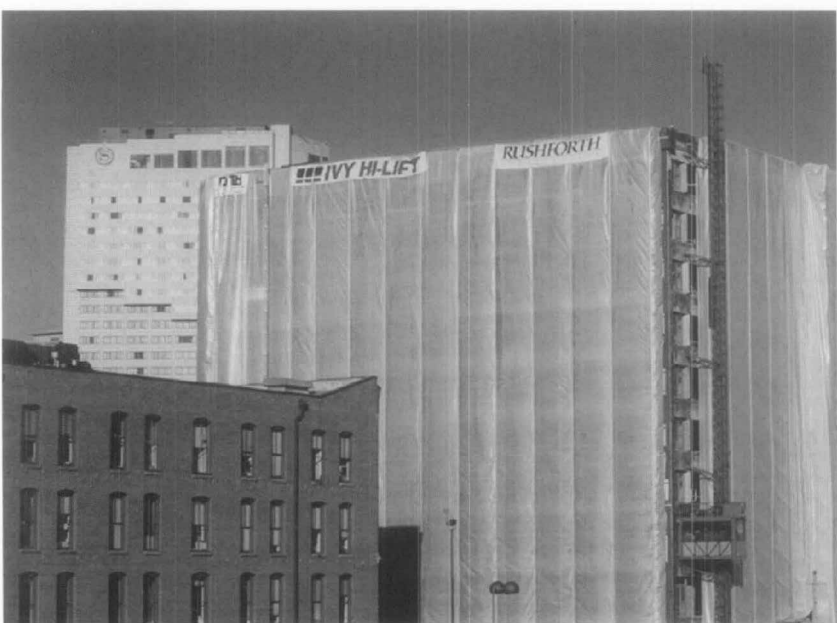


Figure 5. The historic building on the left is partially protected from debris and dust generated by the renovation of the structure to the right. Such temporary enclosure systems consist of a polyethylene sheet or other fabric shell stretched between an aluminum frame. Photo: Walton Technology, Inc.

or objects and artifacts should be covered or temporarily moved to another location. Windows can be taped shut or temporarily sealed with clear polyethylene sheets. Additional mats or carpets near entrances can help reduce the amount of dirt tracked inside. An accelerated maintenance program that includes thorough and frequent cleaning and HVAC filter replacement, is an effective means of addressing the degraded environment surrounding a construction site. To lessen the chance of airborne asbestos infiltration, the exhaust from sealed work areas must be properly filtered and vented away from historic buildings.

The owner of a historic property should anticipate the increased rodent and pest presence that accompanies major demolition activity. Newly opened holes in old foundations are easy escape routes that should be promptly sealed. The construction or demolition site rodent control plan should include provisions for protecting adjacent historic resources.

Currently, the historic property owner should consider securing a contract with an independent extermination company. Plans should include both preventive measures to reduce conditions favorable to infestation as well as a system of eradication such as rodenticide and traps.

Physical Impact

Construction or demolition can cause direct physical damage to neighboring historic features and materials. Cranes, hoists and workers on upper floors of a construction site can drop building supplies and tools onto an adjacent historic structure. Misdirected debris chutes and backing vehicles may also leave their marks.

Generally, to counter these occurrences, protective barriers are placed over any area of the historic structure deemed at risk. If the new construction will rise above the historic building, plywood sheets should be placed over the roof to distribute the force of dropped materials (see Figure 4). Plywood covers should also be placed over decorative roof embellishments such as finials and balustrades. Alternately, horizontal netting can be rigged to shield vulnerable rooftop features.

Facades that are directly exposed to adjacent construction sites should receive close attention. To avoid dam-



Figure 4. Dropped equipment, tools, and material all present risks when new construction rises above neighboring historic structures. In this case, the historic slate roof was completely covered with sheets of exterior grade plywood. Photo: National Park Service files.

Monitoring

A monitoring program should be established during the consultation and documentation phases and continued until adjacent work is finished. It is undertaken to detect, gauge, record and interpret structural movement, the effects of vibration and other changes to the historic building that result from neighboring construction or demolition work. Data collected during the monitoring program can serve as a baseline for any subsequent movement or changes to site drainage patterns that arise within the first years after construction is completed. Ultimately, monitoring shows the degree to which steps taken to protect an historic structure from adjacent construction are sufficient and successful.

Because of liability concerns, those responsible for a new development will often arrange to monitor an adjacent structure. As with a documentation program, the historic property owner may want to hire an independent engineer to review both the monitoring process and the measurements that result.

The extent of the monitoring program and the tools used will depend upon the scope of the adjacent activity. A basic plan to address concerns over vibration levels may include a single seismograph placed on the structure's

age, windows should be covered with plywood. Layers of cushioning material can be placed between the plywood covering and particularly fragile windows, such as stained glass. If interior walls and surfaces are vulnerable, scaffolding should be erected against the facade and debris netting placed on the outside of the scaffolding. Plastic sheeting can provide added protection in areas where acidic cleaning solutions may splash onto historic facades, windows and other surfaces.

The best means of protecting a historic structure from physical impact, however, is often to have adequate horizontal and vertical netting and barriers in place at the construction site. When adjacent buildings are adequately considered in the construction site netting and scaffolding plans, protective measures at the historic site can be less intrusive, and the likelihood of damage reduced even further.

Additional Dangers

Other byproducts of new construction and demolition, such as dirt and dust, can also pose threats to an adjacent historic structure. Dust suppression measures including the installation of fabric enclosure systems should first be employed at the building site (see Figure 5). Despite these efforts, historic building owners will undoubtedly have to deal with raised levels of dust infiltration. Accordingly, vulnerable interi-



Figure 6. A seismograph records vibrations transmitted at the ground level of an historic building. The instrument is wired to a light and siren designed to warn the excavation crew that vibration levels are approaching preset limits. Additional sensors are often installed in the basement and on sensitive features such as stained glass windows. Photo: Wilson, Harg & Associates, Inc.

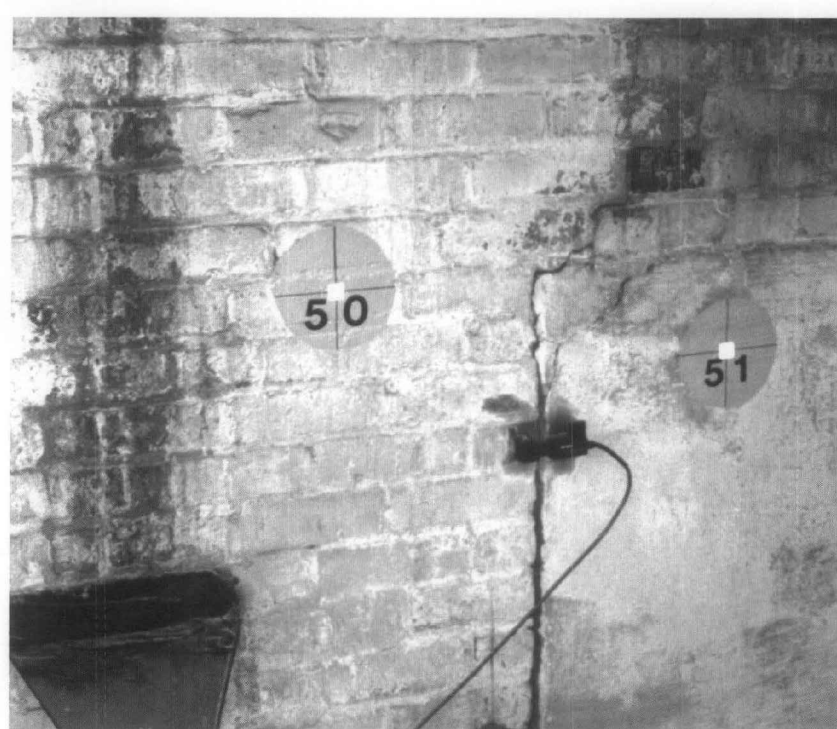


Figure 7. Electronic crack monitor and survey targets are shown installed on an existing wall. The crack monitor feeds movement data to a laptop computer. The targets are aligned and measured with optical survey equipment to determine the degree and direction of movement. Photo: McMullan and Associates, Inc.

Checklist for Historic Property Owner and Historic Site

- ☐ Consult with developer, and other parties to determine extent of work and identify necessary protective measures
- ☐ Conduct survey of existing conditions, including 35 mm photographs, crack inventory and description of other damage
- ☐ Include historic building in construction site fire plan
- ☐ Secure windows and rooftop doors that are made accessible by new construction
- ☐ Remove particularly fragile interior objects and furnishings from site
- ☐ Install temporary supports beneath fragile features that are not moved
- ☐ Place plywood coverings on openings that face construction area
- ☐ If adjacent construction rises above historic site, protect roof with plywood covering, encase rooftop embellishments
- ☐ If construction is directly adjacent to historic facade, protect against mortar and acidic cleaning solution
- ☐ Install temporary floor coverings at entrance and seal windows facing construction site to limit dust infiltration
- ☐ Remove dust from interior surfaces on accelerated schedule
- ☐ Clean HVAC system & filters on accelerated schedule
- ☐ Clear obstructions from gutters and drainage system regularly
- ☐ Establish monitoring program, including:
  - 1) Seismographs to ensure that effects of blasting, pile driving and other work are at acceptable levels
  - 2) Crack monitors and optical survey methods to detect movement
  - 3) Schedule of regular visual inspection

Checklist for Development Team and Construction Site

- ☐ Consult with historic property owner and other relevant parties to identify necessary protective measures
- ☐ Review and sign off on pre-construction condition survey of adjacent property
- ☐ Arrange delivery locations and times to limit disruption and possible damage to neighboring historic structure
- ☐ Explore excavation and demolition methods that produce low vibration levels
- ☐ Limit movement of adjacent building with sufficient underpinning or reinforced excavation walls
- ☐ Reduce changes to adjacent ground water level during dewatering
- ☐ Ensure water runoff is not directed toward historic structure
- ☐ Install appropriate debris nets to prevent dropped materials from impacting historic building
- ☐ Direct debris chutes away from historic structure
- ☐ Install fabric enclosure system to reduce spread of construction dust
- ☐ Include adjacent historic building fire plan and ensure fuels, rags and brushes are stored appropriately and not directly adjacent to historic site
- ☐ If asbestos or lead remediation is involved, ensure exhaust from sealed building is filtered and vented away from historic site and that lead chips are gathered and removed
- ☐ Include adjacent historic structure in rodent control program and seal openings in demolished foundation
- ☐ Participate in monitoring program at historic site to ensure that vibration levels or indications of movement are within established thresholds

This PRESERVATION TECH NOTE was prepared by the National Park Service. Charles E. Fisher, Heritage Preservation Services, serves as the Technical Editor. Special thanks go to Deborah Brown and Michael J. Scheffer, PE, of Wiss, Janney, Elstner Associates, Inc.; Sharon Park, Kay Weeks and Michael Auer of the National Park Service's Heritage Preservation Services; and Marie Emms of Einhorn Yaffee Prescott for their review and comments. Thanks also go to Denis McMullan, McMullan and Associates; Richard Ortega, PE, Ortega Consulting; Dorothy Richter, Wiss, Janney, Elstner Associates, Inc.; George Stekelen and Gregory Mason, National Trust for Historic Preservation; Suzanne Pentz, Keast & Hood Co.; Mark Richards, Morencien American Corporation; Dr. Edward J. Cording, Department of Civil and Environmental Engineering, University of Illinois; Mark Gaudeshaal, Schnabel Foundation Co.; William Striale, Robert M. Powers, Powers and Associates; Martin P. Azola, Azola and Associates; and Margaret Gardner and Mary Knapp at Merchant's House Museum, for their assistance. Tim Buchner, National Park Service, and Camille Marione provided initial research for this publication.

PRESERVATION TECH NOTES are designed to provide practical information on traditional practices and innovative techniques for successfully maintaining and preserving cultural resources. All techniques and practices described herein conform to established National Park Service policies, procedures and standards. This Tech Note was prepared pursuant to the National Historic Preservation Act which directs the Secretary of the Interior to develop and make available to government agencies and individuals information concerning professional methods and techniques for the preservation of historic properties.

Comments on the usefulness of this information are welcomed and should be addressed to PRESERVATION TECH NOTES, Technical Preservation Services, National Park Service, Cultural Resources, National Park Service, 1849 C Street, NW, Washington, DC 20240.

ISSN: 0741-9023 PTHN 42 July 2001



721 LIGHTHOUSE AVE  
PACIFIC GROVE CA.  
93950

PH (831) 646-1261  
FAX (831) 646-1260  
EMAIL idg@idg-inc.net  
WEB idg-inc.net

DISCLAIMER:

ALL IDEAS, DESIGN, ARRANGEMENTS AND PLANS INDICATED BY THIS DRAWING ARE OWNED BY, AND THE PROPERTY OF, THIS OFFICE AND WERE CREATED, DEVELOPED AND PREPARED FOR USE ON, AND IN CONNECTION WITH, THE SPECIFIED PROJECT. NO PART OF THIS DRAWING OR ANY INFORMATION OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PERSON OR CORPORATION FOR ANY PURPOSES WITHOUT THE WRITTEN PERMISSION OF IDG ARCHITECTURE + PLANNING + INTERIOR DESIGN. CONTRACTORS SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB AND THIS SERVICE MUST BE NOTIFIED OF ANY DISCREPANCIES FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE DRAWINGS. CONTRACTORS MUST SUBMIT ALL REQUESTS FOR CHANGES TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH FABRICATION ON ITEMS SO NOTED.

STAMPS:

PROJECT/CLIENT:

JB PASTOR  
BUILDING

PROJECT ADDRESS:

DOLORES, 2ND SE  
OF 7TH  
CARMEL, CA  
93921

APN: 010-145-012  
022, & 023

DATE: DECEMBER 18, 2020

TRACK-2 SUBMITTAL

REVISIONS:

- MARCH 4, 2021  
FOREST & BEACH COMMISSION
- MARCH 26, 2021  
HISTORIC BOARD COMMISSION

HISTORIC  
PRESERVATION  
CONDITIONS

SHEET NO.

A1.4