

B

Type

X

Plans

BLD09 - 1973

Permit Number

17240

Street Number

Bodega Hwy

Street Name

BBY

Community Code

103 - 120 - 008

APN

# COUNTY OF SONOMA - PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

2550 Ventura Avenue, Santa Rosa, CA 95403 (707) 565-1900 FAX (707) 565-1103

Please Print  
Your Name:

Bodega Volunteer Fire Department

Date

Applied: 2-

INFORMATION WITHIN HEAVY LINE TO BE COMPLETED BY APPLICANT

## SITE LOCATION INFORMATION - PRINT CLEARLY

Site Address: <u>17240 Bodega Hwy.</u>		City: <u>Bodega</u>		ZIP: <u>94922</u>
Cross-Street: <u>Bodega Ln.</u>	APN: <u>103-120-024,008</u>	Project Phone #: <u>(707) 484-2413</u>	Project Fax #: <u>(707) 876-9438</u>	
Directions: <u>Bodega Hwy near Salmon Crk Rd.</u>		Subd. Name	Unit #	Lot #
Describe Project: <u>NEW FIRE STATION Bodega Ln. 4096 #</u>		Living Area	Contract Price:	
		Garage		
		Decks		

## OWNER NAME AND ADDRESS

Name: <u>Bodega Volunteer Fire Department</u>		
Mailing Address: <u>P.O. Box 28</u>		
City: <u>Bodega</u>	State: <u>CA</u>	ZIP: <u>94922</u>
Day Ph: <u>707 484-2413</u>	Fax: <u>(707) 876-9438</u>	

## APPLICANT NAME AND ADDRESS

Name: <u>Craig Williams</u>		
Mailing Address: <u>295 Neva St.</u>		
City: <u>Sebastopol</u>	State: <u>CA</u>	ZIP: <u>94952</u>
Day Ph: <u>707 703-9636</u>	Fax: <u>( ) NONE</u>	

## CONTRACTOR INFORMATION

Company Name:		
Address:		
City:	State:	ZIP:
Day Ph: ( )	Fax: ( )	

## OTHER PERSONS (ARCHITECT, ENGINEER, ETC.)

Name: <u>Craig Williams</u>		
Address: <u>295 Neva St.</u>		
City: <u>Sebastopol</u>	State: <u>CA</u>	ZIP: <u>94952</u>
Day Ph: <u>707 703-9636</u>	Fax: <u>( ) NONE</u>	
License No: <u>C26642</u>	Exp. Date: <u>10-31-10</u>	

## WORKER'S COMPENSATION DECLARATION

I hereby affirm under penalty of perjury one of the following declarations:

- ☐ I have and will maintain a certificate of consent to self-insure for worker's compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued.
- ☐ I have and will maintain worker's compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My worker's compensation insurance carrier and policy number are:

Carrier \_\_\_\_\_  
Policy No. \_\_\_\_\_  
(This section need not be completed if the permit is for one hundred dollars (\$100) or less).

- ☐ I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the worker's compensation laws of California, and agree that if I should become subject to the worker's compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Exp. Date: \_\_\_\_\_ Applicant: \_\_\_\_\_

**WARNING:** FAILURE TO SECURE WORKER'S COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3706 OF THE LABOR CODE, INTEREST, AND ATTORNEY'S FEES.

## OWNER-BUILDER DECLARATION

I hereby affirm under penalty of perjury that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5, Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he or she is licensed pursuant to the provisions of the Contractor's License Law (Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code) or that he or she is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than five hundred dollars (\$500).):

- ☐ I, as owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044 Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or herself or through his or her own employees, provided that such improvements are not intended or offered for sale. If, however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he or she did not build or improve for the purpose of sale.).

- ☒ I, as owner of the property, am exclusively contracting with licensed contractors to construct the project (Sec. 7044, Business and Professions Code: The Contractors License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractors License Law.).

- ☐ I am exempt under Sec. \_\_\_\_\_, B & P.C. for this reason \_\_\_\_\_

Date \_\_\_\_\_ Owner Ran Allini Representative

## LICENSED CONTRACTOR'S DECLARATION

I hereby affirm under penalty of perjury that I am licensed under provisions of Chapter 9 (commencing with Section 7000) of Division 3 of the Business and Professions Code, and my license is in full force and effect.

Lic. Class \_\_\_\_\_ Lic. No. \_\_\_\_\_

Exp. Date \_\_\_\_\_ Contractor \_\_\_\_\_

## ASBESTOS DECLARATION

Written asbestos notification pursuant to Part 61 of Title 40 of the Code of Federal Regulations is required when asbestos exists in buildings, or portions thereof, undergoing demolition. I hereby declare that demolition authorized by this permit is from construction that ☐ does ☒ does not contain asbestos, or that ☐ no demolition is authorized by this permit.

I certify that I have read this application and affirm under penalty of perjury that the above information is correct. I agree to comply with all local Ordinances and State laws relating to building construction. I hereby authorize representatives of the County of Sonoma to enter upon the above-mentioned property for inspection purposes. If, after making the Certificate of Exemption for the Worker's Compensation provision of the Labor Code I should become subject to such provisions, I will forthwith comply. In the event I do not comply with the Workman's Compensation law, this permit shall be deemed revoked.

Ran M Allini Representative  
PERMITTEE SIGNATURE  
17240 Bodega Hwy. Bodega CA 94922  
ADDRESS CITY ZIP

☐ Contractor ☒ Owner ☐ Other Licensed Professional

Final Date:

Inspector:

THIS PERMIT SHALL EXPIRE IN THREE(3) YEARS FROM DATE FEES ARE PAID UNLESS OTHERWISE NOTED BY CODE ENFORCEMENT

## CONSTRUCTION LENDING DECLARATION

I hereby affirm under penalty of perjury that there is a construction lending agency for the performance of the work for which this permit is issued. (Sec. 3097, Civ. C.).

Lenders Name USDA

Lenders Address 777 Sonoma Ave E St. Annex Santa Rosa 95407

**RC-HD-SPR DEPARTMENT USE** File No. PLP08-0020 Acres .62

Zoning BARN Existing Use/Structures FIRE STATION

Proposed Use/Structures FIRE STATION

Zoning Min. Yard Requirements: Front \_\_\_\_\_ Left \_\_\_\_\_ Right \_\_\_\_\_ Back \_\_\_\_\_

NOTE: Fire Safe Standards require all parcels greater than 1 Acre to have a min. 30' setback unless mitigated. ☐ Mitigation Required ☐ Address subject to change

Approval for Permit Issuance: \_\_\_\_\_ Approval for Occupancy: \_\_\_\_\_

By Scott J. Hemperger Date: 12/9/09

Conditions: \_\_\_\_\_

Sewer Connection: ☐ Available ☐ Fees Paid

Approved by: \_\_\_\_\_ Date: \_\_\_\_\_

Road Encroachment: ☐ Fees Paid

Approved by: K Lapeman (R) Date: 9-25-09

Septic System Permit Clearance # Per T Fitzgerald

Approved by: \_\_\_\_\_ Date: 12-09-09

Flood Zone: ☐ Yes ☒ No 100 Year Flood Elevation: \_\_\_\_\_

Site Review

Drainage Review: J. Rainwater (R) Date: 9-2-09

Fire: J Faddis (R) Date: 5-28-09

Code Enforcement Violation ☐ Yes ☒ No Violation # \_\_\_\_\_

This permit is limited to \_\_\_\_\_ days.

Work Authorized: new fire station

☒ Plans Approved ☐ No Plans Subject to Field Inspection

Post Check Cleared By Paul Smith Date: 12/9/09

Permit Cleared for Issuance By CS Date: 12-9-09

Type of Construction VB B, S, I, S, R2 Occupancy 4cs

No. of Stories 2 No. of Bedrooms \_\_\_\_\_

Auto. Fire Sprinklers Req'd yes Certificate of Occupancy \_\_\_\_\_

Machine Stamps for Permit Fee

**PAYMENT RECEIVED**

DEC 09 2009

PERMIT AND RESOURCE MANAGEMENT DEPARTMENT

COUNTY OF SONOMA

Distribution: White - File Canary - Applicant Pink - Audit Copy Blue - Assessor Cardstock - Inspector

JOB ADDRESS:

17240 BODEGA HWY BODEGA CA 94922

PERMIT NUMBER: BLD09-1973

INSPECTION AREA:

8

131) SPECIAL INSPECTION REQUIRED		<input type="checkbox"/> YES	<input type="checkbox"/> NO	IF YES, SEE ADDITIONAL SHEET	
INSPECTION RECORD		DATE	NAME	REMARKS	
101)	ROUGH GRADING				
103)	FOUNDATION				
	FORMS/SETBACK				
	FOOTING				
	WALLS				
106)	UFER GROUND #				
104)	CAISSONS/PIERS				
105)	SLAB				
107)	UNDERGROUND UTILITIES				
110)	MASONRY				
109)	RETAINING WALLS				
113)	FIREPLACE				
	FOOTING				
	HEARTH/PROTECTION				
	THROAT				
114)	CHIMNEY				
120)	UNDERFLOOR/UNDERSLAB				
115)	HYDRONICS				
116)	U/F ELECTRICAL				
117)	U/F MECHANICAL				
118)	U/F PLUMBING				
119)	U/F FRAMING				
139)	U/F INSULATION				
126)	SHEAR WALLS				
	<input type="checkbox"/> INTERIOR	<input type="checkbox"/> EXTERIOR			
127)	DIAPHRAGMS				
	<input type="checkbox"/> ROOF	<input type="checkbox"/> FLOOR			
134)	SIDING/SHEATHING				
125)	HOLD DOWNS				
132)	CLOSE-IN				
122)	ROUGH ELECTRICAL				
123)	ROUGH MECHANICAL				
124)	ROUGH PLUMBING				
128)	ROUGH FRAME				
160)	SMOKE DETECTORS				
139)	INSULATION				
142)	WALLBOARD				
143)	FIREWALLS				
135)	STUCCO/PLASTER				
	<input type="checkbox"/> LATH	<input type="checkbox"/> SCRATCH			
137)	ROOFING				
130)	TUB/SHOWER PAN				
162)	FIRE DAMPERS/DOORS				
164)	SUSPENDED CEILING				
	<input type="checkbox"/> ROUGH ELEC.	<input type="checkbox"/> ROUGH MECH.			
165)	EXITING - RAMPS/STAIRS				
163)	HANDRAILS/GUARDRAILS				
	CORRIDORS/DOORS				
166)	ACCESSIBILITY COMPLIANCE				
144)	WATER TANKS				
	<input type="checkbox"/> SLAB	<input type="checkbox"/> WALLS			
170)	TEMPORARY OCCUPANCY				
171)	TEMPORARY ELECTRICAL				
172)	TEMPORARY GAS				
174)	ELECTRIC METER AUTHORIZATION				
152)	PANEL BOARDS/SERVICE				
189)	SEPTIC ELECTRIC FINAL				
175)	GAS METER AUTHORIZATION				
153)	GAS PRESSURE TEST				
	HOUSE	YARD			
190)	MANUF. HOME FOUNDATION				
191)	MANUF. HOME INSTALLATION				
	CONTINUITY				
	STAIRS/SKIRTS				
	RIDGE BOLTING				
193)	MANUF. HOME COND. FINAL				
	SWIMMING POOLS				
194)	PRE-GUNITE				
195)	PRE-DECK				
196)	PRE-PLASTER/FENCE				
197)	VINYL/FIBERGLASS POOL EXCAVATION				
102)	GRADING FINAL				
176)	ELECTRICAL FINAL				
177)	MECHANICAL FINAL				
178)	PLUMBING FINAL				
199)	FINAL				
OCCUPANCY (OK TO OCCUPY)					
				PLAN RETENTION REQUIRED?	
				<input type="checkbox"/> Yes <input type="checkbox"/> No	

PERMIT #

1/9/14

102

#30 April 15, 2008

COUNTY OF SONOMA  
AGENDA ITEM  
SUMMARY REPORT

Clerk of the Board Use Only  
Meeting Date      Held Until  
\_\_\_\_/\_\_\_\_/\_\_\_\_      \_\_\_\_/\_\_\_\_/\_\_\_\_  
Agenda Item No:      Agenda Item No:  
\_\_\_\_\_  
\_\_\_\_\_

Department: BOARD OF SUPERVISORS

( ) 4/5 Vote Required

Contact:  
Supervisor Reilly

Phone:  
2241

Board Date:  
April 15, 2008

Deadline for Board Action:

AGENDA SHORT TITLE: Fee Waiver

REQUESTED BOARD ACTION:

Waive \$35,000 of County fees for the Bodega Volunteer Fire Department building project

CURRENT FISCAL YEAR FINANCIAL IMPACT

EXPENDITURES

ADD'L FUNDS REQUIRING BOARD APPROVAL

Estimated Cost      \$

Contingencies      \$  
(Fund Name: )

Amount Budgeted      \$

Unanticipated Revenue      \$  
(Source: )

Other Avail Approp      \$  
(Explain below)

Other Transfer(s)      \$  
(Source: )

Additional Requested:      \$

Add'l Funds Requested:      \$

Explanation (if required):

Prior Board Action(s):

MOTION    AYE    NO

BROWN		✓	
SMITH		✓	
KELLEY		✓	
REILLY		✓	
KERNS		✓	

Alternatives - Results of Non-Approval:

# Special Inspection and Testing Acknowledgment

CNI-011

I have read and agree to comply with the terms and conditions of this agreement.

Owner

Date

Contractor

Date

License Number

Special Inspection Agency

Date

Staff Engineer's License Number

Date

Fabricator

I.C.B.O. Approval Number

*Reese and Associates Jeffrey R. Reese*  
Geotechnical Engineer

*9/1/09*  
Date

*C47753*  
License Number

*[Signature]*  
Architect or Engineer of Record

*9/20/09*  
Date

*C26642*  
License Number

Accepted for Permit and Resource Management Department  
Construction-Building Inspection Section

By

Date

Sonoma County Permit and Resource Management Department  
2550 Ventura Avenue ♦ Santa Rosa, CA ♦ 95403-2829 ♦ (707) 565-1900 ♦ Fax (707) 565-2210

# Special Inspection and Testing Requirements

CNI-012

Bodega Volunteer Fire  
Project Name

17240 Bodega Highway  
Project Address

BLD09-1973  
Permit No.

## Reinforced Concrete, Gunite, Grout and Mortar:

CBC 1701.5.1

Concrete	Gunite	Grout	Mortar	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Aggregate Tests
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reinforcing Tests
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mix Designs
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reinforcing Placement
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Batch Plant Inspection
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Inspect Placing
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cast Samples
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pick-up Samples
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Compression Tests

CBC 1701.5.1 and .4

Piers	Grade Beams	Pretens	Precast	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Aggregate Tests
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reinforcing Tests
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Tendon Tests
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Mix Designs
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Reinforcing Placement
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Insert Placement
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Concrete Batching
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Installation Inspection
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Cast Samples
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Pick-up Samples
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Compression Tests

## Structural Observation by Architect or Engineer:

CBC 1702

- ☐ Foundation Observation
- ☐ Framing Observation
- ☐ Final Observation
- ☐ General Conformance Letters

## Masonry:

CBC 1701.5.7

- ☐ Special Inspection Stresses Used
- ☐ Prelim. Acceptance Test (Masonry Units, Wall Prisms)
- ☐ Subsequent Tests (Mortar, Grout, Field Wall Prisms)
- ☐ Placement Inspection of Units

## Embedded Bolts or Inserts:

CBC 1701.5.2 and .15

- ☐ Bolt/Insert Placement Inspection %
- ☒ Bolt/Insert Tension Test 25 %
- ☐ Bolt/Insert Shear Test %
- ☐ Epoxy Mix and Placement Observation %

## Structural Steel / Welding:

CBC 1701.5.5 and .6

- ☐ Sample and Test (list specific members below)
- ☐ Shop Material Identification
- ☐ Welding Inspection ☐ Shop ☐ Field
- ☐ Ultra Sonic Inspection ☐ Shop ☐ Field
- ☐ High-Stress Bolting Inspection

- ☐ A325 ☐ Shop ☐ Field
- ☐ A490 ☐ N ☐ X ☐ F

- ☐ Metal Deck Welding Inspection
- ☐ Reinforcing Steel Welding Inspection
- ☐ Metal Stud Welding Inspection
- ☐ Concrete Insert Welding Inspection

## Structural Wood:

CBC 1701.5.15

- ☐ Horizontal Diaphragms
- ☐ Shear Wall Nailing Inspection
- ☐ Inspection of Glulam Fabrication
- ☐ Inspection of Truss Joint Fabrication
- ☐ Sample and Test Components

## Geotechnical/Foundation:

CBC 1701.5.11 and .13

- ☒ Soils Engineer Plan Review Acceptance Letter
- ☒ Foundation Excavation
- ☐ Pier Holes
- ☐ Site Drainage
- ☒ Fill Material
- ☒ Placement Inspection
- ☒ Field Density
- ☒ Acceptance Letter
- ☒ Acceptance Letter

## Fireproofing:

CBC 1701.5.10

- ☐ Placement Inspection
- ☐ Density Tests
- ☐ Thickness Tests
- ☐ Inspect Batching

## Insulating Concrete:

- ☐ Sample and Test
- ☐ Placement Inspection
- ☐ Unit Weights

## Additional Instructions/Other Tests & Inspections:

DEC 09 2009

Plans Examiner

Date

Reese & Associates Jeffrey K. Reese 9/1/09  
Requirements specified by (Architect/Engineer of record) Date

Contractor

Date

Owner

Date

# GIBLIN ASSOCIATES

POST OFFICE BOX 6172  
TELEPHONE (707) 528-3078

SANTA ROSA, CA 95406  
FACSIMILE (707) 528-2837

CONSULTING  
GEOTECHNICAL  
ENGINEERS

THESE ATTACHMENTS ARE PART  
OF THE APPROVED PLANS.

**\* DO NOT REMOVE THEM \***

January 30, 2008

Job No. 3798.1.13

DEC 09 2009

PERMIT AND RESOURCE  
MANAGEMENT DEPARTMENT  
BUILDING PLAN CHECK

PERMIT # \_\_\_\_\_

Bodega Volunteer Fire Department  
c/o William Newman, UC Davis  
Bodega Marine Laboratory  
P.O. Box 247  
Bodega Bay, CA 94923-0247

Report  
Soil Engineering Consultation  
and Review of Plans  
Bodega Volunteer Firehouse  
Bodega, California

This report presents the results of our soil engineering consultation and review of plans for a new firehouse for the Bodega Volunteer Fire Department in Bodega, California. We performed a geologic hazards evaluation and soil investigation for the project, and the results were submitted in our report dated January 29, 2007. Recommendations for foundation support included criteria for spread footings bottomed on a pad of properly compacted fill.

Grading plans reviewed were prepared by Wheeler Engineering and Surveying, Inc. and are dated January 6, 2009. Cuts varying in depth to about 4 feet are planned in the south portion of the building pad and will be retained by a wall along the south and east sides. In the north portion of the pad, 2 to 5½ feet of fill is planned, with the deeper fills within an existing drainage swale. The driveway area is indicated to consist of 3½ inches of asphalt paving over 12 inches of Class 2 Aggregate base. Planned cuts to subgrade elevation in the driveway area will vary up to about 2 feet below the existing grade.

An existing 36-inch storm drain that extends diagonally beneath the planned building area is indicated to be relocated along the north and west sides of the building. The new storm drain is planned to vary in depth from about 6½ to 7½ feet below finish grade.

Bodega Volunteer Fire Department  
c/o William Newman, UC Davis  
January 30, 2009  
Page Two

Foundation plans prepared by DLF, Inc. are dated September 8, 2008 and indicate that the firehouse will be a one-story, metal building with a concrete slab-on-grade floor. The building is indicated to be supported on a continuous perimeter concrete footing with square pad footings at perimeter and interior column locations. Footings are planned to bottom 18 inches below planned pad grade. Based on our knowledge of the subsurface conditions, we believe that the foundation system as planned would be suitable for the proposed firehouse construction. However, to help maintain support for the structure should service to the storm drain be necessary in the future, we recommend that foundations be deepened along the north side of the structure so as to bottom below an imaginary one horizontal to one vertical (1:1) line extended up from the bottom of the utility trench excavation. Based on our analysis, we judge that it would be necessary to deepen the footing along Grid Line 1, between Grid lines A and B, approximately 12 to 18 inches below the planned bottom of footing. We recommend that such overexcavations in footing areas be provided with reinforcing and backfilled with structural concrete.

We recommend that the site be graded in general accordance with the recommendations outlined in our investigation report. Existing fills and weak, compressible upper soils should be removed for their full depth, and footings and concrete slabs should be underlain with at least 12 and 18 inches of properly compacted fill, respectively. Prior to placement of fill in the existing drainage swale, all soft compressible and/or organic-laden soils should be removed. Because of organic content, such excavated materials may only be suitable for reuse as fill in landscaping areas. Actual depth of overexcavations to remove existing fills and weak compressible soils should be determined in the field by the soil engineer.

Positive surface drainage of at least 1/4-inch per foot extending at least 4 feet out should be provided away from all foundations. The ground surface around the perimeter of the firehouse should be sloped so as to provide positive lateral drainage. The roof should be provided with gutters, and the downspouts should either be connected to nonperforated pipes that discharge into planned drainage facilities, or onto paved areas or splash blocks draining at least 30 inches away from foundations.

Based on our plan review and previous work at the site, we believe that the materials and methods indicated on the plans are in general conformance with our recommendations. We recommend that the site grading work and footing excavations be observed and tested by the soil engineer to verify that the actual conditions encountered are as anticipated and to modify our recommendations, if warranted. Field and laboratory tests should be performed to ascertain that the specified moisture content and degree of compaction are being attained.



# GIBLIN ASSOCIATES

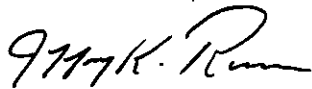
CONSULTING  
GEOTECHNICAL  
ENGINEERS

Bodega Volunteer Fire Department  
c/o William Newman, UC Davis  
January 30, 2009  
Page Three

We trust this provides the information needed at this time. If you have questions or wish to discuss this in more detail, please do not hesitate to contact us.

Yours very truly,

GIBLIN ASSOCIATES



Jeffrey K. Reese  
Civil Engineer No. 47753



JKR.nay/NN/HD/sec/jkr/Job No. 3798.1.13

Copies Submitted: 3



# GIBLIN ASSOCIATES

POST OFFICE BOX 6172  
TELEPHONE (707) 528-3078

SANTA ROSA, CA 95406  
FACSIMILE (707) 528-2837

CONSULTING  
GEOTECHNICAL  
ENGINEERS

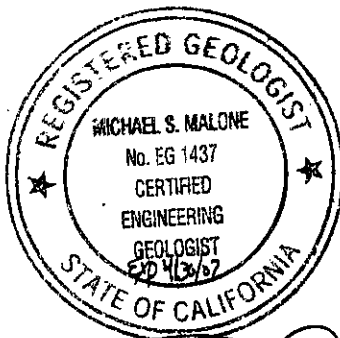
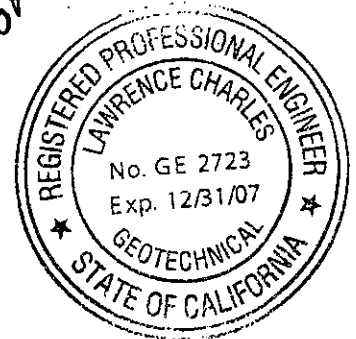
Report  
Geologic Hazards Evaluation and Soil Investigation  
Proposed New Firehouse  
Bodega Volunteer Fire Department  
Bodega, California

Prepared for  
Bodega Volunteer Fire Department  
c/o William Newman  
University of California, Davis  
Bodega Marine Laboratory  
P.O. Box 247  
Bodega Bay, CA 94923-0247

*See JTB copy  
for complete document*

By

GIBLIN ASSOCIATES  
Consulting Geotechnical Engineers and Geologists



*Lawrence Charles*  
Lawrence Charles  
Geotechnical Engineer No. 2723

*Lawrence Charles for*  
Michael S. Malone  
Engineering Geologist No. 1437



*Lawrence Charles for*  
Jere A. Giblin  
Geotechnical Engineer No. 339



Job No. 3798.1.8  
January 29, 2007



**BODEGA VOLUNTEER  
FIRE DEPARTMENT**



Sonoma County PRMD  
2550 Ventura Avenue  
Santa Rosa, CA 95403

February 22, 2011

**Re: Bodega Volunteer Fire Department  
Permit # BLD 09-1973  
Change; registered design professional in responsible charge**

The Bodega Volunteer Fire Station is currently under construction. The Bodega Volunteer Fire Department has recently changed its registered design professional in responsible charge of the project and wishes to designate a substitute registered design professional in responsible charge who shall perform the duties required of the original registered design professional in responsible charge. In compliance with California Building Code Section 106.3.4.1, the Bodega Volunteer Fire Department is hereby notifying the building official (the Sonoma County Permit and Resource Department) in writing that the registered design professional in responsible charge is changed as follows:

**Original design professional:**

Craig Douglas Williams  
295 Neva Street  
Sebastopol, CA 95472  
License # C26642

**Substitute design professional:**

Rhen August Benson  
P. O. Box 184  
Bodega, CA 94922  
License # C-11275

Best Regards,

Chief, Ron Albini

**RETAIN**



**COUNTY OF SONOMA**  
**PERMIT AND RESOURCE MANAGEMENT DEPARTMENT**

2550 Ventura Avenue, Santa Rosa, CA 95403-2829  
(707) 565-1900 FAX (707) 565-2210

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January 21, 2011

Bill Newman  
Ron Albini  
Bodega Volunteer Fire Department  
[winewman@hughes.net](mailto:winewman@hughes.net)

Re: county #BLD09-1973  
17240 Bodega Highway

Dear Sirs,

On January 18, 2011 we met to discuss issues that have arisen during construction of the new fire station. At that time, we were given plans and a cover letter presenting proposed changes to the approved design of the building. This letter represents our review of that proposal, and also documents other issues that were brought up during that meeting.

The first issue was the change to the architect-of-record. The first page of the cover letter is the correct language, but as requested by Kevin Berger, we are asking that it be submitted as a stand-alone document. The letter should be signed by the project owner.

Related to this is the issue of the inspector-of-record (IOR). As noted on sheet A1.3, Special Inspection note #5, an IOR is required for this project. The IOR was to be hired by the owner, and to be under the "general responsible charge" of the architect and engineer. It appears from this language that the architect was not functioning as the IOR. It also appears from the plans that the engineer-of-record did not elect to do structural observations during the structural phase of the project. Before any finishes are installed, the IOR should be retained, and he should inspect the completed construction. Structural testing of the building may also be required at the discretion of either the IOR or the jurisdiction.

Issue #2 of the letter concerns the correct occupancy classification for the building. The letter argues that the B classification should be used throughout. This was the correct method of classification up through the 2001 California building code. However this building is approved under the 2007 CBC. Note that fire stations were removed from the list of B occupancies (section 304.1) in the 2007 CBC. The ICC publication 2006 IBC Transition from the 1997 UBC, used in their training seminars, discusses this change: "Fire and police stations are not specifically listed, providing for classification as mixed occupancy buildings." Therefore, the mixed occupancy classification done by Craig Williams was the correct methodology.

Pursuant to the owner's desire to reduce the amount of fire-rated construction within the building, CBC 508 provides four different methods of dealing with mixed occupancies, only one of which requires fire separations between the different occupancies. The architect should analyze the different occupancy

classifications within the framework of CBC 508 to justify the removal of any separations and document this with revised plans. My only comments at this point are:

1. No separations are required between B and S-1 occupancies.
2. Future dorm rooms should be considered R now for the purpose of occupancy separation since this will make the future conversion much easier.
3. The separation between an S-2 parking garage and adjoining B/S-1 occupancies is actually meant to protect the low-hazard S-2. In the past, we have allowed the applicant to comply with the moderate-hazard S-1 classification instead. This reduces the allowable area, but has the advantage of eliminating the occupancy separation requirement.

The third item in the letter is Construction Type. The letter argues that the correct construction type should be VB. This is already specified on sheet A1.3 of the approved plans, as well as the permit itself.

The fourth item points out that the corridor ratings are not required by Table 1017.1. I agree.

To summarize, there does not appear to be any code requirements for fire ratings at the interior walls. The fire separation around the future R occupancy is recommended, as it will save money at the time the space is converted. Similarly, the partition wall between sleeping units (see the future dorm plan) is required to have a fire rating by CBC 708.1.

Also during our meeting, the current format you are using to make revisions was questioned. My research into this issue comes from the Building Official Information Guide, which is published by the California Board of Architectural Examiners. It uses a question/answer format. One of the questions is "When plans have been filed by the original architect of record, may a building official accept changes to those plans which are submitted by the supplanting architect or engineer?" The answer from CBAE is that "a building official is only required to verify that the appropriate stamp and signature is on the documents before a permit is issued and that design changes are made and approved by the appropriate person." Therefore, on your resubmittal, we will only be verifying that the revisions have been sealed with Rhen Benson's stamp and signature. We also suggest that you switch to a different method of identifying the revisions since we are unsure of whether the colored ink will be preserved when copied.

If you would like additional clarification or direction on any items in this letter, feel free to call me at the phone number listed below.

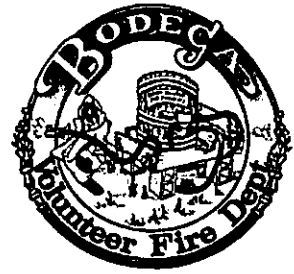
Thank you,

Earl Smith  
PRMD Plans Examiner  
707 565-3829

cc. DeWayne Starnes  
Shems Peterson  
Kevin Berger  
Bob MacIntyre



**BODEGA VOLUNTEER  
FIRE DEPARTMENT**



Sonoma County PRMD  
2550 Ventura Avenue  
Santa Rosa, CA 95403

January 12, 2011

**Re: Bodega Volunteer Fire Department  
Permit # BLD 09-1973**

**ISSUE #1**

The Bodega Volunteer Fire Station is currently under construction. The Bodega Volunteer Fire Department has recently changed its registered design professional in responsible charge of the project and wishes to designate a substitute registered design professional in responsible charge who shall perform the duties required of the original registered design professional in responsible charge. In compliance with California Building Code Section 106.3.4.1, the Bodega Volunteer Fire Department is hereby notifying the building official (the Sonoma County Permit and Resource Department) in writing that the registered design professional in responsible charge is changed as follows:

**Original design professional:**

Craig Douglas Williams  
295 Neva Street  
Sebastopol, CA 95472  
License # C26642

**Substitute design professional:**

Rhen August Benson  
P. O. Box 184  
Bodega, CA 94922  
License # C-11275

707-876-3515



# BODEGA VOLUNTEER FIRE DEPARTMENT



**Re: Bodega Volunteer Fire Department  
Permit # BLD 09-1973**

## ISSUE #2

A recent review of the construction drawings revealed that the former registered design professional in responsible charge, may have included certain fire protection features that are not required by the code. In an effort to save precious and limited funds, the Bodega Volunteer Fire Department has completed a code analyses to determine if the following fire protection features identified on the construction drawings are in-fact required by the code.

- Occupancy Classification
- Construction Type
- Fire rated corridor
- Fire separation between apparatus bay and office areas
- Fire separation between mezzanine and apparatus bay floor below

In the event that these items as identified on the construction drawings are in-fact not required by the code, the Bodega Volunteer Fire Department requests that the Sonoma County Permit and Recourse Department accept the substitute registered design professional's findings, and agree that those items shown on the approved plans, not be required and that any changes made during construction that are not in compliance with the approved construction documents shall be resubmitted to the Sonoma County Permit and Recourse Department for approval as an amended set of construction documents.

## ISSUE #2 ANALYSES

### **Occupancy Classification:**

#### Determination:

The correct Occupancy Classification is not shown on the approved plans. The correct Occupancy Classification of this building should be a B-Occupancy. The building official must concur with the determination of this Occupancy type.



# BODEGA VOLUNTEER FIRE DEPARTMENT



**Re: Bodega Volunteer Fire Department  
Permit # BLD 09-1973**

## **ISSUE #2 ANALYSES cont.**

### Analysis:

The occupancy classification is typically established by the design professional during the code analysis phase. Most of the time, the designer's determination is consistent with that of the building department. However, where there is disagreement as to the proper classification of the various uses within the building, it is the building official's responsibility to make the final decision. This authority is granted in Section 104.1 dealing with the interpretive powers of the building official. Although the IBC lists in some detail the uses allowed within a specific occupancy classification, the building official will at times also be called upon to judge whether or not a selected classification is appropriate under specific conditions. Assigning occupancy classification often not only depends on the use, but also on the extent and intensity of that use.

A use may be so incidental to the overall occupancy that its effect on fire and life safety is negligible. As an example, the administrative office area in a high school performs a business-type function, but such a use is so incidental to the general operation and activities of the school that assigning it to a separate occupancy group would quite probably be unproductive. Therefore, the building official's judgment will often be relied upon to classify occupancies that could potentially fall into more than one group. (IBC Handbook)

Carwash structures and motor vehicle showrooms are considered business occupancies. If the space contains a limited number of vehicles that are present in a very controlled condition, it is anticipated that the fire risk is limited, and classification as a Group B occupancy is appropriate. (IBC Handbook)

Police and fire stations are included within Group B Occupancies and should not be considered as mixed occupancies. Thus, for the police station, the jail, which is most often used as a temporary holding facility, would be included as a Group B Occupancy where it is part of the police station. For a fire station the entire building is classified as a Group B Occupancy and there is no separation required between the apparatus room and the rest of the building. Also, the dormitory would not be considered a separate occupancy and would not require a separation from the rest of the building. Therefore, the Bodega Fire Station should be considered a B-Occupancy.





## BODEGA VOLUNTEER FIRE DEPARTMENT



**Re: Bodega Volunteer Fire Department  
Permit # BLD 09-1973**

### **Construction Type:**

#### **Determination:**

The correct construction type is not indicated on the approved plans. The correct construction type for this structure should be VB. The building official must concur with the determination of this construction type.

#### **Analysis:**

A building designated as a B-Occupancy with a Construction Type of VB (un-protected) is allowed to be 9,000 square feet in area, without modifications (CBC Table 503). For buildings with no more than one story above grade plane, when the building is equipped throughout with an approved automatic sprinkler system the area limitation in Table 503 is permitted to be increased by an additional 300 percent. (CBC 506.3)

By virtue of the conditions placed on mezzanines in Section 505, a mezzanine is not considered to create additional building area or an additional story for the purpose of limiting building size. The floor area of a mezzanine need not be added to the area of the floor below for the purpose of limiting building area by Section 503. Mezzanines also do not contribute to the actual number of stories in relationship to the allowable number of stories permitted by Sections 503 and 504. The limitations imposed on mezzanines are deemed sufficient to permit such benefits.

The Bodega Fire Station will have an approved NFPA-13 fire sprinkler system installed, and the area of the Bodega Volunteer Fire Station is less than 27,000 square feet, therefore the construction type is permitted to be Type VB.

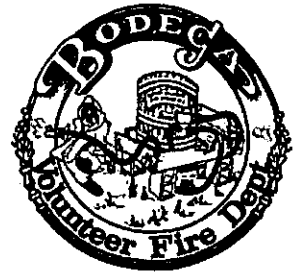
### **Fire rated corridor:**

#### **Determination:**

Because the occupancy classification is a B Occupancy, and because the building is equipped throughout with an approved NFPA-13 fire sprinkler system, the passageway providing an exit path from various portions of the building to the exterior of the building is not required to be of one-hour construction as indicated on the approved plans.



# BODEGA VOLUNTEER FIRE DEPARTMENT



**Re: Bodega Volunteer Fire Department  
Permit # BLD 09-1973**

**Fire rated corridor: cont.**

**Analysis:**

In a fully sprinkled building, a corridor must only be fire-resistance rated in Groups H, R, I-1 and I-3. The thresholds found in Table 1017.1 indicate at what point a fire-resistance-rated corridor must be provided.

Travel distance to an exit may not exceed the distances found in Table 1016.1. For most occupancies, the travel limitation is 200 feet in non-sprinkled buildings and 250 feet in buildings provided throughout with an automatic sprinkler system. However, fully sprinkled Group B occupancies are permitted travel distances of 300 feet. Therefore, because the building has an approved fire sprinkler system installed, and because the travel distance to the closest exit is not farther than 300 feet, there is no requirement for a fire rated corridor in the business offices portion of the building.

**Fire separation between apparatus bay and office areas**

**Determination:**

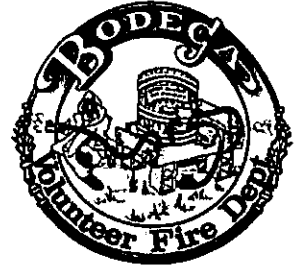
There is no requirement for a fire-resistance rated separation between the apparatus bay (S-1 use within a B-Occupancy) and the balance of the area of the fire station (B use within a B-Occupancy).

**Analysis:**

A mixed-occupancy condition exists where two or more distinct occupancy groups are determined to exist within the same building. In fact, it is quite common for a building to contain more than one occupancy group. For example, hotel buildings of various sizes not only house the residential sleeping areas, but may contain administrative offices, retail and service-oriented spaces, parking garages and, in many cases, restaurants, conference rooms and other assembly areas. Each of these uses typically constitutes a distinct and separate occupancy as far as Chapter 3 of the CBC is concerned. Because this situation is not uncommon, the code specifies requirements for buildings of mixed occupancies.



# BODEGA VOLUNTEER FIRE DEPARTMENT



**Re: Bodega Volunteer Fire Department  
Permit # BLD 09-1973**

**Fire separation between apparatus bay and office areas: cont.**

Under such circumstances, the designer has available several methodologies (accessory occupancies, non-separated occupancies and separated occupancies) to address the mixed-occupancy concerns. The methods that have been established represent a hierarchy of design prerogatives that may be utilized at the discretion of the design professional.

Using the method permitted by CBC Section 508.3.2, if each distinct occupancy is individually classified, and the most restrictive occupancy is used to determine the total allowable building height and area, and considering the following from Table 503, it can be concluded that a Group B occupancy and a Group S-1 occupancy are similar enough such that neither is more restrictive than the other. Thus the allowable area for a building containing both a B use and an S-1 use is allowed to be up to 9000 sq ft in area, (27,000 sq ft with fire sprinklers installed) and up to two stories in height.

GROUP	TYPE VB CONST.	
B	9000 sq ft in area	2-stories
S-1	9000 sq ft in area	2 stories

It is also important to note that Table 503 requires no fire separation between a B use and an S-1 use.

In the case of the Bodega Fire Station, the building complies with the provisions of CBC 508.3.2, as follows and the two occupancies (B & S-1) shall qualify as non-separated occupancies.

- The areas can be individually classified in accordance with Section 302.1.
- The allowable area and height of the building or portion thereof is based on the most restrictive allowances for the occupancy groups under consideration for the type of construction of the building in accordance with Section 503.1.

Therefore, no separation is required.

**Fire separation between mezzanine and apparatus bay floor below**

**Determination:**

There is no requirement for a fire-resistance rated separation between the apparatus bay (S-1 use within a B-Occupancy) and the mezzanine above the apparatus bay floor (S-1 use within a B-Occupancy).

**Analysis:**

Same as above.



# STEEL BUILDINGS

## STRUCTURAL CALCULATIONS

CUSTOMER: Bodega Volunteer F.D.

JOB NO: 28286

### INDEX

- A. DESIGN LOADS AND REACTIONS
- B. PLAN
- C. SHEETING DESIGN
- D. SECONDARY FRAMING DESIGN
- E. ENDWALL DESIGN
- F. RIGID FRAME DESIGN
- G. LONGITUDNAL BRACING
- H. SPECIAL FRAMING DESIGN



September 2, 2009

CBC STEEL BUILDINGS IS AN APPROVED FABRICATOR OF STEEL BUILDINGS

ICBOES FA-322

AISC CERTIFIED FABRICATOR CATEGORY MB

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**STEEL BUILDINGS**  
A **NUCOR** Company

P.O. BOX 1009, LATHROP, CA 95330  
OFFICE/PLANT: 1700 E. LOUISE AVE.  
PH: (209) 983-0910, FAX: (209) 858-2354

Date: 8/28/2008

## Letter Of Certification

Time: 8:58:57 AM

**CBC Job No.:** 28286

**Builder:** Soule Building Systems, Inc.

**Customer:** Bodega Volunteer F.D.

475 Portal Street #C

**Location:** Bodega, Ca

Cotati, Ca 94931

**Building Size:** Width: 48'

Length: 64'

Eave Ht.: 14'9

**Roof Pitch:** 2.5/12

**Bay Spacing:** 17'4 9'8 16' 21'

This is to certify that metal building components furnished by CBC Steel Buildings, an AISC-MB certified manufacturer, has been designed in our Lathrop office and for fabrication in our Lathrop, California plant. The members are designed to comply with the following loads specified in the order documents:

The Fabrication of the Steel Building is performed under the quality assurance procedures maintained by "CBC" as a part of its approved fabricator status with ICBO-ES No. FA-322. **THESE ATTACHMENTS ARE PART OF THE APPROVED PLANS.**

### Design Loads:

**\* DO NOT REMOVE THEM \***

**CBC-2007, Section 1605.3.1**

### Building Dead Load:

### Collateral Load:

### Live Load:

### Live Load Reduction Allowed:

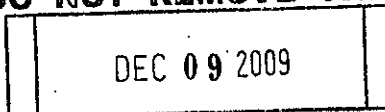
### Roof Snow Load / Imp. Factor / Ce.:

### Wind Speed & Exp. / Imp. Factor / Kzt:

### Wind Enclosure:

### Seismic Design Category / Imp. Factor / Soil / S1 / Ss:

### Other Loads: MEZZ Floor Dead Load = 5.0 psf, Mezz Floor Live Load = 125.0 psf



PERMIT AND RESOURCE  
MANAGEMENT DEPARTMENT  
BUILDING PLAN CHECK

PERMIT #

### Basic Load Combinations:

D + C

D + C + (Lr or S)

0.6D + W

D + W

D + C + 0.7E

D + C + 0.75(W + (Lr or S))

D + C + 0.75(0.7E + (Lr or S))

0.6(D + C) + 0.7E

**Note:** This project is designed as an Enclosed Bldg. Accessories (doors, windows, etc.) by others must be designed as "components and cladding". In accordance to specific wind provisions of the referenced Building Code.

Please note that unless otherwise specified on your Purchase Order, CBC Steel Buildings Serviceability Standards will be used for design and fabrication of your order.

These design loads and combinations are applied in accordance with The California Building Code, 2007 Edition, (CBC-2007). The design is in general accordance with the A.I.S.C. (Thirteenth Edition) and A.I.S.I. (2001) specifications with 2004 addendum.

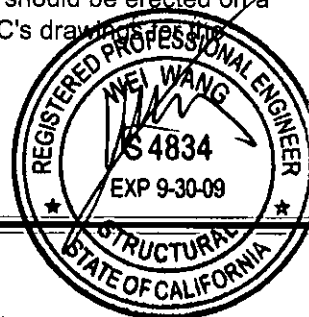
This certification is limited to the structural design of the framing and covering parts manufactured by CBC Steel Buildings and as specified in the contract. Accessory items such as doors, windows, louvers, translucent panels, and ventilators are not included. Also excluded are other parts of the project not provided by CBC Steel Buildings such as foundations, masonry walls, mechanical equipment and the erection and inspection of the building. The building should be erected on a properly designed foundation in accordance with The CBC Steel Buildings Erection Manual and CBC's drawings and referenced job.

**Note:** The undersigned is not the Engineer of Record for the entire project.

Sincerely,

WW/

Wei Wang, S.E., P.E.



SEP 05 2008