

CITY OF SACRAMENTO
1231 I Street, Sacramento, CA 95814

Permit No: 9713755
Insp Area: 2

Site Address: 2766 5TH ST SAC
Parcel No: 0090030023
N

2766, 2768, 2770, 2772, 2774 & 2776

Sub-Type: REM
Housing (Y/N):

CONTRACTOR

OWNER

ARCHITECT

HOUSING AUTHORITY OF CITY OF SACTO
SACRAMENTO CA

95812-1834

Phone:

Phone:

Phone:

**Nature of Work: LEAD BASED PAINT AND ASBESTOS ABATEMENT, NEW ELECTRICAL,
PLUMBING AND HVAC AND GENERAL MODERNIZATION; LANDSCAPING
AROUND BUILDING, NEW PATIOS AND PORCHES**

CONSTRUCTION LENDING AGENCY : 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).

Lender's Name _____ Lender's Address _____

LICENSED CONTRACTORS 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.

License Class HP/AS License Number 046849 Date 10/9/97 Contractor Signature [Signature]

OWNER-BUILDER DECLARATION: I hereby affirm under penalty of perjury that I am exempt from the contractors 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 Contractors License Law (Chapter 9 (commencing with Section 7000) of Division 8 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 (\$500.00);

____ I, as a 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 Professional Code: The Contractors 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 & PC for this reason: _____

Date _____ Owner Signature _____

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

Date 10/9/97 Applicant/Agent Signature [Signature]

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 workers' compensation as provided for by Section 3700 of the Labor Code, for the performance of work for which the permit is issued.

____ I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers' compensation insurance carrier and policy number are:

Carrier California Fidelity Policy Number W5041022 3/1/98

____ (This section need not be completed if the permit is for \$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 workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date 10/9/97 Applicant Signature [Signature]

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 FEE.

THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

CITY OF SACRAMENTO
 BUILDING INSPECTION DIVISION
 APPLICATION FOR BUILDING PERMIT - HAZARDOUS MATERIAL SURVEY

As Required by Assembly Bill #3205 - A Building Permit Cannot be Approved Without This Completed Form

1. Business Name: S W Allen Construction Inc Phone: 344-2098
 Site Address: 2766 - 2776 5th STREET Suite: _____
(Street) (Zip)
 Business Owner/Representative: Charles A. Allen Phone: same
 Nature of Business: Construction
 Property Owner: SARA Phone: 586-2040
 Address: 370 Commerce Cir Suite: _____
Sacto CA 95815
(City) (State) (Zip)

2. Are you developing an undetermined tenant space? Yes ___ No Is this permit for a shell building? Yes ___ No

Notify lessee of the responsibility to coordinate with the Fire Department regarding the use and handling of hazardous materials.

3. Does/Will your business generate hazardous waste? Yes ___ No
 4. Does/Will your business handle, store or transport any solid, liquid, or gaseous chemicals? Yes ___ No

CONSULT THE EPA CHEMICAL LIST LOCATED AT THE BUILDING DIVISION COUNTER FOR HAZARDOUS OR ACUTELY HAZARDOUS MATERIALS TO COMPLETE THE FOLLOWING QUESTIONS.

If you answered "YES" to questions #3 and/or #4 above, continue on to questions 5 - 8.

5. Do you handle, store, or transport 55 gallons, 500 pounds, or 200 cubic feet (at Standard Temperature or Pressure) of a product or formulation containing hazardous materials at any one time? Yes ___ No ___
 6. Do you handle, store or transport any amount of acutely hazardous materials? Yes ___ No ___
 7. Is/Will your business be located within 1,000 feet of a school? Yes ___ No ___

If you answered "yes" to questions #6 and/or #7, complete the RMPP Informational sheet.

8. Is/Will your business be located within 1,000 feet of a hospital, and/or long-term healthcare facility? Yes ___ No ___

IF YOU ANSWERED "YES" TO QUESTION #3 AND/OR #4, PLEASE CONTACT THE CITY OF SACRAMENTO FIRE DEPARTMENT LOCATED AT 1231 I STREET, SUITE 401, SACRAMENTO, CA OR CALL 449-5416.

Prior to issuance of a certificate of occupancy, each business owner(s) shall contact the City of Sacramento Fire Department and comply with the Health and Safety Code regarding the use and handling of hazardous materials.

PENALTY: Any business that violates Section 25531-25541 of the Health and Safety Code shall be civilly liable to the administering agency in an amount of not more than two thousand dollars (\$2,000) for each day in which the violation occurs. If the violation results in, or significantly contributes to, an emergency, including a fire, the business shall also be assessed the full cost of the city emergency response, as well as the cost of cleaning up and disposing of the hazardous materials. Additional liability and punishment may be assessed for knowing a violation after reasonable notice of the violation.

Applicant's Name: Charles A. Allen
[Signature] (Print) 10/9/97
 (Signature) (Date)

BID Use Only: Plan Ck# <u>5122</u> Permit # <u>9713755</u>
OK to issue prmt? <input checked="" type="checkbox"/> <u>init</u> date <u>10/9/97</u> F.D. Appr Req'd? Yes No
Hold on Certificate of Occupancy? Yes <input checked="" type="checkbox"/> No
Fire Dept. Use Only:
OK to issue permit? ini' _____ date _____
OK to issue Certificate of Occupancy? ini' _____ date _____

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License Class A, B, ASD License Number 646849 Date 10/9/97 Contractor Signature [Signature]

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____ I, as a 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 Professional Code: The Contractors 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 & PC for this reason: _____

Date _____ Owner Signature _____

IN ISSUING THIS BUILDING PERMIT, the applicant represents, and the city relies on the representation of the applicant, that the applicant verified all measurements and locations shown on the application or accompanying drawings and that the improvement to be constructed does not violate any law or private agreement relating to permissible or prohibited locations for such improvements. This building permit does not authorize any illegal location of any improvement or the violation of any private agreement relating to location of improvements.

Date 10/9/97 Applicant/Agent Signature [Signature]

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Carrier California Fidelity Policy Number NE041022

(This section need not be completed if the permit is for \$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 workers' compensation laws of California and agree that if I should become subject to the workers' compensation provisions of Section 3700 of the Labor Code, I shall forthwith comply with those provisions.

Date 10/9/97 Applicant Signature [Signature]

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THIS PERMIT SHALL EXPIRE BY LIMITATION IF WORK IS NOT COMMENCED WITHIN 180 DAYS.

(SUBSTANTIAL IMPROVEMENTS)
AGREEMENT REGARDING
THE RISK OF FLOODING

RECITALS

A. The undersigned have contracted for construction of the improvements located at 2766 - 2776 5TH STREET and described in the attached building permit (the "Improvements").

B. The undersigned expressly acknowledge that the Improvements may be subject to flooding hazards due to their location in a 100-year floodplain, as described in the Flood Insurance Rate Map dated November 15, 1989, ("FIRM"), prepared by the Federal Emergency Management Agency ("FEMA").

C. The undersigned acknowledge that they have read the Notice to Building Permit Applicants Regarding the Risk of Flooding attached as Exhibit "B."

D. Despite the potential for flood damage, the undersigned intend that the Improvements be constructed even though they will not be at least one foot above the 100-year floodplain elevation levels identified in the Preliminary Work Map dated January, 1989, prepared by the U.S. Army Corps of Engineers.

E. The undersigned acknowledge that the City of Sacramento (the "City") recommends obtaining flood insurance for the Improvements.

AGREEMENT

In consideration of the issuance of a building permit for construction of the Improvements, the undersigned agree as follows:

1. Flood-Related Property Damage. For purposes of this Agreement, the term "flood-related property damage" shall mean any property damage due to flooding resulting from an overtopping out of the channels of the Sacramento River, American River, Dry Creek, Arcade Creek or Morrison Creek levee systems or a break in those levee systems.

2. Assumption of Risk. The undersigned expressly assume the risk that the Improvements may be subject to flood-related property damage.

3. Waiver of Property Damage Claims. The undersigned unconditionally waive any flood-related property damage claim asserting liability on the part of the City, or its officers, agents or employees premised on the issuance of a permit for the Improvements,

9. Succession. The undersigned expressly intend that the obligations contained herein shall run with the Improvements and shall bind their respective heirs, assignees and successors in interest.

10. Termination. All of the obligations set forth in this Agreement shall terminate at such time as FEMA determines that the area in which the Improvements are located has attained at least 100-year flood protection.

DATED: 10/9/97



SIGNATURE

J.P. SwAllen Construction Co
Title of Signatory if Signing for an Entity

Charles A. Allen
Name

5940 Rosebud Ln #1
Address

Sacto, CA 95841

SIGNATURE

Title of Signatory if Signing for an Entity

Name

Address

**(SUBSTANTIAL IMPROVEMENTS)
AGREEMENT REGARDING
THE RISK OF FLOODING**

RECITALS

- A. The undersigned have contracted for construction of the improvements located at 2766 - 2776 5th STREET and described in the attached building permit (the "Improvements").
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- E. The undersigned acknowledge that the City of Sacramento (the "City") recommends obtaining flood insurance for the Improvements.

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In consideration of the issuance of a building permit for construction of the Improvements, the undersigned agree as follows:

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2. **Assumption of Risk.** The undersigned expressly assume the risk that the Improvements may be subject to flood-related property damage.
3. **Waiver of Property Damage Claims.** The undersigned unconditionally waive any flood-related property damage claim asserting liability on the part of the City, or its officers, agents or employees premised on the issuance of a permit for the Improvements,



SMUD

SACRAMENTO MUNICIPAL UTILITY DISTRICT □ P. O. Box 15830, Sacramento CA 95852-1830, (916) 452-3211
AN ELECTRIC SYSTEM SERVING THE HEART OF CALIFORNIA

April 20, 1998

*MICRO
FILM*

ALLEN CONSTRUCTION INCORPORATED
ATTENTION: SHAWN PAYNE
5940 ROSEBUD LANE
SACRAMENTO, CA. 95841

RE: 5TH ST BUILDINGS

Dear Mr. Payne:

In regards to the SMUD service attachments on the brick buildings on 5th Street. I have talked to SMUD's Service Crew Supervisor (Mr. Bill Greer) about these attachments and he has assured me that they are adequate for SMUD's overhead service attachments.

If you have any questions regarding this matter, please call me at 732-5776.

Sincerely,

DaveSmith
Senior Engineering Estimator
Distribution Services Department



5940 Rosebud Ln., Suite 1
Sacramento CA 95841-2963
(916) 344-2098
FAX (916) 344-0307
Lic. 646849

December 9, 1997

Mr. Brad Boehm
Building Official
City of Sacramento
1231 I Street, Suite 200
Sacramento, CA 95814

Re: 2734-2748, 2750-2764 and 2766-2776 5th Street
Permit Nos. 9713763, 9713761 and 9713755

Dear Mr. Boehm:

I am the contractor on the referenced project. The project consists of rehabilitating three buildings containing 22 units. The buildings are approximately 50 years old.

Plans were drawn by a licensed architect and approved by the City with new 1/2" gypsum board throughout. Also per plans all party walls will receive wet blown insulation with a flame spread of 18. I have attached a data sheet for your information.

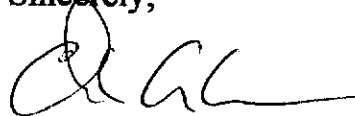
Inspector Jim Riordan is requiring one hour separation walls between living units per UBC Sect. 310.2.2 using 5/8" Type X gypsum board. We have 1/2" board installed on 5 walls with 18 walls left to complete. Many walls have existing doors, in an extension of wall beyond the fire wall (at right angles, see attached floor plans) with frames designed for 1/2" gypsum board. The existing frames are not compatible with 5/8" board.

I am requesting your approval on the assembly, as originally drawn and submitted, consisting of 1/2" regular gypsum board with the stud cavity completely filled with wet blown insulation. Although this assembly is as drawn and specified, we will submit the assembly to SHRA for approval.

The assembly is somewhat similar to ICBO ER-2654 figure 1, staggered stud (in most locations and, figure 3, single stud in some locations, drawing attached), however the ER assembly has fiberglass insulation with a flame spread and smoke-density ratings less than 25 and 450 while the referenced issue wet blow insulation has a flame spread and smoke-density ratings less than 20 and 5. The assembly is also similar to item W-4-W-35 from H.U.D.'s publication on rehabilitation guidelines.

I appreciate your attention to this issue. If you have questions please call me at 344-2098.

Sincerely,

A handwritten signature in black ink, appearing to read 'C. Allen', written over a circular stamp.

Charles A. Allen

CC William Enyeart Jr.
Jim Riordan
Ron Pecci
Brian Nakashima



ICBO Evaluation Service, Inc.

5360 WORKMAN MILL ROAD • WHITTIER, CALIFORNIA 90601-2299

A subsidiary corporation of the International Conference of Building Officials

EVALUATION REPORT

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ER-2654

Reissued August 1, 1996

Filing Category: FIRE-RESISTIVE CONSTRUCTION—Other Fire-Resistive Construction (080)

INSULATED FIRE-RESISTIVE WALL ASSEMBLIES

OWENS-CORNING
FIBERGLAS TOWER
TOLEDO, OHIO 43659

I. Subject: Insulated Fire-resistive Wall Assemblies.

II. Description: A. **General:** Owens-Corning Fiberglas building insulation is a light-density insulation product consisting of glass fibers bonded with a resin. It is available unfaced (friction fit), or with kraft or foil vapor-resistant facings. It is also available with a reinforced foil vapor barrier and as a 3 1/2-inch-thick by 2-foot-wide batt with the trade name of Firecore 60 Sound Attenuation Batt. The products have flame-spread and smoke-density ratings less than 25 and 450, respectively.

B. **One-hour Fire-resistive Limited Load-bearing Partitions:** The one-hour limited load-bearing partition consists of two rows of 2-inch by 4-inch wood studs spaced 16 inches on center on separate 2-inch by 4-inch plates or two rows of 2-inch by 4-inch wood studs spaced 16 inches on center staggered on a common 2-inch by 6-inch plate. Each side of the partition is covered with 1/2-inch-thick regular or Type X gypsum wallboard attached with 1 5/8-inch-long .094-inch ring shank gypsum drywall nails spaced 7 inches on center to all studs and plates. Each stud cavity on both sides of the partition is insulated with Fiberglas building insulation 3 1/2 inches thick and having a density of at least 0.45 pound per cubic foot for the staggered and double stud partitions. All nailheads are covered with joint compound and joints are treated. Loads not exceeding 1,200 pounds per stud may be superimposed, provided structural considerations for axial, flexural and bearing-perpendicular-to-grain stresses are resolved in accordance with the code. The maximum wall height is 10 feet. See Figure 1.

C. **One-hour Fire-resistive Exterior Wall Construction:** The construction and design are identical to one of the systems described above for interior partition construction except the exterior facing is as required for one-hour fire-resistive exterior wood stud walls in Table 7-B of the Uniform Building Code.

D. **One-hour Fire-resistive Load-bearing Exterior Wall Construction:** The construction consists of 2-inch by 4-inch wood studs spaced 16 inches on center with 1/2-inch Type X gypsum wallboard on the interior face. The wallboard is attached to resilient channels with 1-inch-long drywall screws spaced 8 inches on center along all joints and 12 inches on center in the center of the board. All screwheads are covered with joint compound and all joints are taped and given a coat of joint compound. The channel is installed horizontally at 24 inches on center and attached at each stud intersection with one 6-penny box nail. The channels are arranged so that one channel occurs at the horizontal joints of horizontally applied gypsum wallboard. A strip of 1/2-inch-thick gypsum wallboard 3 inches in width is placed at the bottom of the wall to fur out a distance equal to the overall thickness of the channels. Each stud cavity is insulated

with Fiberglas building insulation 3 1/2 inches thick and having a density of at least 0.45 pound per cubic foot. The exterior facing is as required for one-hour fire-resistive exterior wood stud walls in Table 7-B of the Uniform Building Code. The maximum wall height is limited to 9 feet. See Figure 2.

As an alternate means of construction the 1/2-inch Type X gypsum wallboard is attached directly to the studs with 1 5/8-inch long .094-inch ring shank gypsum drywall nails spaced 7 inches on center to all studs and plates. All nailheads are covered with joint compound and all joints are taped and given a coat of joint compound.

E. **One-hour Fire-resistive Limited Load-bearing Exterior Wall Construction:** The construction consists of 2-inch by 4-inch wood studs spaced 16 inches on center with 1/2-inch regular gypsum wallboard on the interior face. The wallboard is attached with 5-penny cement-coated nails 1 5/8 inches long spaced 8 inches on center to all studs and plates. All nailheads are covered with joint compound and all joints are taped and given a coat of joint compound. Each stud cavity is insulated with Fiberglas building insulation 3 1/2 inches thick and having a density of at least 0.45 pound per cubic foot. The exterior facing is as required for one-hour fire-resistive exterior wood stud walls in Table 7-B of the Uniform Building Code. Loads not exceeding 1,000 pounds per stud may be superimposed, provided structural considerations for axial, flexural and bearing-perpendicular-to-grain stresses are resolved in accordance with the code. The maximum wall height is 10 feet. See Figure 3.

F. **One-hour Fire-resistive Nonload-bearing Partition:** The partition consists of No. 25 gage 3 5/8-inch-wide steel studs spaced 24 inches on center with 1/2-inch-thick Type X gypsum wallboard attached to each side with 1-inch-long Type S screws placed 8 inches on center along the edges and 12 inches on center in the field. All screw heads are covered with joint compound. All joints are taped and coated with joint compound. Each cavity is insulated with Fiberglas Firecore 60 Sound Attenuation Batts having a 3 1/2 inch thickness. See Figure 4.

G. **Identification:** On faced Fiberglas insulation, the product name, the company logo, a statement cautioning users on the correct manner of installation, the thickness and the shift code are printed on the vapor barrier. All packages are identified with the following: The company name or logo, product type, size, pieces per package, square footage, product code and shift code numbers.

III. **Evidence Submitted:** Results of tests in accordance with U.B.C. Standards 7-1 and 8-1.

Findings

IV. **Findings:** That the Insulated Fire-resistive Wall Assemblies described in this report comply with the 1994 Uniform Building Code™.

This report is subject to re-examination in two years.

Evaluation reports of ICBO Evaluation Service, Inc., are issued solely to provide information to Class A members of ICBO, utilizing the code upon which the report is based. Evaluation reports are not to be construed as representing aesthetics or any other attributes not specifically addressed nor as an endorsement or recommendation for use of the subject report.

This report is based upon independent tests or other technical data submitted by the applicant. The ICBO Evaluation Service, Inc., technical staff has reviewed the test results and/or other data, but does not possess test facilities to make an independent verification. There is no warranty by ICBO Evaluation Service, Inc., express or implied, as to any "Finding" or other matter in the report or as to any product covered by the report. This disclaimer includes, but is not limited to, merchantability.

11/12/1997 15:20

7704276933

GREENSTONE IND INC

PAGE 01

RECEIVED SEP 17 1997

Northbrook, Illinois • (847) 278-8900
Melville, New York • (516) 271-5200
Bona Vista, California • (408) 923-2400
Research Triangle Park,
North Carolina • (919) 549-1400
Camas, Washington • (360) 817-5500



GREENSTONE INDUSTRIES INC
MR I SMITH
3264 VILLA LN
NAPA CA 94558



Your most recent listing is shown below. Please review this information and report any inaccuracies to the UL Engineering staff member who handled your UL project.

BNST
Fiber, Sprayed

September 2, 1997

GREENSTONE INDUSTRIES INC

R15890 (N)
(B - cont. from A card)

Applied to Inorganic Reinforced Cement Board
in a Maximum Thickness of 3-1/2 in.+

Flame spread 15
Smoke developed 0

+Must be applied with water in accordance with the application instructions.
When examined for physical characteristics in accordance with the Department of Housing and Urban
Development use of materials Bulletin No. 80, the following was determined:

Thermal Resistance - 3.45 R/in. (at 3.5 in. thickness and 3.6 pcf density).
Applied to Inorganic Reinforced Cement Board
in a Maximum Thickness of 3-3/4 in.+

Flame spread 15
Smoke developed 5

+Must be applied with water only in accordance with the application instructions.
When examined for physical characteristics in accordance with the Department of Housing and Urban
Development use of materials Bulletin No. 80, the following was determined:
Thermal Resistance - 3.65 R/in. (at 4.0 in. thickness and 2.60 pcf density).

LOOK FOR CLASSIFICATION MARKING ON PRODUCT

Replaces R15890B dated July 29, 1996.

138020001

Underwriters Laboratories Inc.®

A11/0303183
82

For information on placing an order for UL Listing Cards in a 3 x 5 inch card format,
please refer to the enclosed ordering information.

1.3.2 (cont'd)

Walls 4" to Less Than 6" Thick

Item Code	Thickness	Construction Details	Performance		Reference Number			Notes	Roc Hours
			Lead	Time	Pre-BMS-92	BMS-92	Post-BMS-92		
W-5-W-31	5-1/8"	2" x 4" Stud Wall; 16" O.C.; 1/2" Fiberboard Insulation with 1/32" Asbestos (both sides of each board).	N/A	50min.			7	16	3/4
W-4-W-32	4 1/2"	2"x4" Stud Wall; 3/8" thick gypsum wallboard on both faces; insulated cavities.	note 23	25min.		1		17,18,23	1/3
W-4-W-33	4 1/2"	2"x 4" Stud Wall; 1/2" thick gypsum wallboard on both faces.	note 17	40min.		1		17,23	2/3
W-4-W-34	4 1/2"	2"x 4" Stud Wall; 1/2" thick gypsum wallboard on both faces; insulated cavities.	note 17	45min.		1		17,18,23	3/4
W-4-W-35	4 1/2"	2"x 4" Stud Wall; 1/2" thick gypsum wallboard on both faces; insulated cavities.	N/A	1 hr.		1		17,18,24	1
W-4-W-36	4 1/2"	2"x 4" Stud Wall; 1/2" thick, 1.1lb/ft ² wood fiberboard sheathing on both faces.	note 23	15min.		1		17,23	1/4
W-4-W-37	4 1/2"	2"x 4" Stud Wall; 1/2" thick, 0.7lb/ft ² wood fiberboard sheathing on both faces.	note 23	10min.		1		17,23	1/5
W-4-W-38	4 1/2"	2"x 4" Stud Wall; 1/2", "flameproofed", 1.6lb/ft ² wood fiberboard sheathing on both faces.	note 23	30min.		1		17,23	1/2
W-4-W-39	4 1/2"	2"x 4" Stud Wall; 1/2" thick gypsum wallboard on both faces; insulated cavities.	note 23	1 hr.		1		17,18,23	1
W-4-W-40	4 1/2"	2"x 4" Stud Wall; 1/2" thick, 1:2, 1:3 gypsum plaster on wood lath on both faces.	note 23	30min.		1		17,21,23	1/2
W-4-W-41	4 1/2"	2"x 4" Stud Wall; 1/2" thick, 1:2, 1:3 gypsum plaster on wood lath on both faces; insulated cavities.	note 23	1 hr.		1		17,18,21,23	1
W-4-W-42	4 1/2"	2"x 4" Stud Wall; 1/2" thick, 1:5, 1:7.5 lime plaster on wood lath on both wall faces.	note 23	30min.		1		17,21,23	1/2
W-4-W-43	4 1/2"	2"x 4" Stud Wall; 1/2" thick 1:5, 1:7.5 lime plaster on wood lath on both faces, insulated cavities.	note 23	45 min.		1		17,18,21,23	3/4
W-4-W-44	4-5/8"	2" x 4" stud wall; 3/16" thick cement-asbestos over 3/8" thick gypsum board on both faces.	note 23	1 hr.		1		23,26,27,27	1
W-4-W-45	4-5/8"	2"x 4" Stud Wall; studs faced with 4" wide strips of 3/8" thick gypsum board; 3/16" thick cement-asbestos board on both faces; insulated cavities.	note 23	1 hr.		1		23,25,28,27	1
W-4-W-46	4-5/8"	Same as W-4-W-45 but non-load bearing.	N/A	1 1/2 hr.		1		24,28	1 1/2
W-4-W-47	4-7/8"	2" x 4" Stud wall; 3/16 thick cement asbestos board over 1/2" thick gypsum sheathing on both faces.	note 23	1 1/2 hr.		1		23,25,27,26	1 1/2
W-4-W-48	4-7/8"	Same as W-4-W-47 but non-load bearing.	N/A	1 1/2 hr.		1		24,27	1 1/2
W-5-W-49	5"	2"x 4" Stud Wall; exterior face: 3/4" wood sheathing, asbestos felt 14 lb/100 ft ² and 5/32" cement-asbestos shingles. Interior face: 4" wide strips of 3/8" gypsum board over studs; wall faced with 3/16" thick cement asbestos board.	note 23	40min.		1		18,23,25,26,29	2/3
W-5-W-50	5"	2"x 4" Stud Wall; exterior face as per W-5-W-49; interior face: 9/16" composite board consisting of 7/16" thick wood fiber board faced with 1/8" thick cement asbestos board; Exterior side exposed to fire.	note 23	30 min.		1		23,25,26,30	1/2
W-5-W-51	5"	Same as W-5-W-50 but interior side exposed to fire.	note 23	30min.		1		23,25,26	1/2
W-5-W-52	5"	Same as W-5-W-49 but exterior side-exposed to fire.	note 23	45min.		1		18,23,25,26	3/4
W-5-W-53	5"	2"x 4" Stud Wall; 3/4" thick T&G wood boards on both sides.	note 23	20min.		1		17,23	1/3

Item Code	Thickness	
W-5-W-54	5"	5
W-5-W-55	5"	2 b b
W-5-W-56	5"	2 P
W-5-W-57	5"	2 a a
W-5-W-58	5"	2' p' n:
W-5-W-59	5"	2 1 1 b
W-5-W-60	5"	2 2 1 e
W-5-W-61	5"	2 2 1
W-5-W-62	5"	2 2 1
W-5-W-63	5"	2 2 1
W-5-W-64	5"	2 2 1
W-5-W-65	5"	
W-5-W-66	5"	
W-5-W-67	5-1/16"	
W-5-W-68	5 1/2"	
W-5-W-69	5 1/2"	
W-5-W-70	5 1/2"	
W-5-W-71	5 1/2"	
W-5-W-72	5 1/2"	
W-5-W-73	5 1/2"	

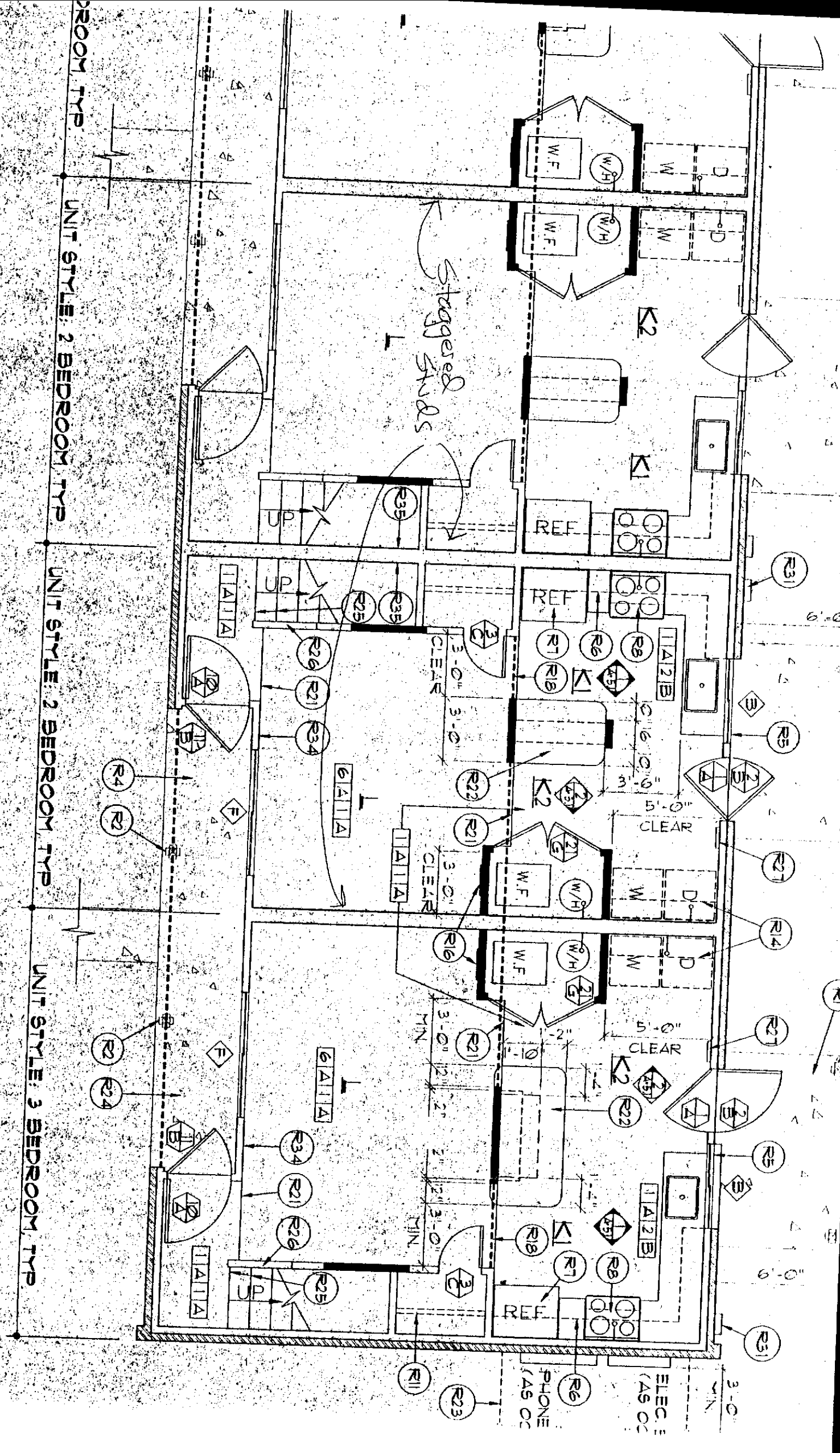
Walls 4" to Less Than 6" Thick

Item Code	Thickness	Construction Details	Performance		Reference Number	
			Load	Time	Pre-Test	Post-Test
W-3-4-1a	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1b	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1c	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1d	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1e	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1f	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1g	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1h	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1i	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1j	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1k	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1l	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1m	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1n	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1o	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1p	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1q	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1r	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1s	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1t	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1u	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1v	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1w	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1x	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1y	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1z	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23

Walls 4" to Less Than 6" Thick

Item Code	Thickness	Construction Details	Performance		Reference Number	
			Load	Time	Pre-Test	Post-Test
W-3-4-1a	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1b	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1c	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1d	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1e	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1f	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1g	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1h	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1i	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1j	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1k	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1l	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1m	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1n	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1o	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1p	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1q	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1r	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1s	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1t	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1u	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1v	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1w	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1x	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1y	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23
W-3-4-1z	3"	2 1/2" x 4" wood stud wall, 7/8" thick 1/2", 1/2" gypsum plaster over wood lath on both sides of wall.	25	1 hr.	1	21.21, 21.22, 21.23

1.3.1.1
 All specimens 8" or 8 1/4" x 10 1/4" x 4" or 4 1/2" x 4" x 4" of specimen size. See note 11 for design cross section.
 Specimens located in London (two per specimen).
 Note per 404, 405, 406-409, except where indicated. Also, provide note of "wall" size of specimen opening. Also, provide elevation of thermal insulation film.
 1 x 4 studs - 1 1/2" D.C.; where 10 1/4", blocking 2 1/4" height.
 Blocking 4" x 8" - cement asbestos board sheath - 3/8" thick.
 Blocking (slightly) - 3 1/2" x 8" x 1/2" x 6" pane.
 Blocking Distemper - 2 1/2" x 1 1/2" x 5/16" where used.
 Adhesive felt - asphaltic mat between sheathing and blocking.
 Load - 20,500 lbs or 300 psi/total where load was tested.
 Walls were tested beyond achievement of first crack and peak. A load bearing time to maximum performance time indicator that although thermal criteria were exceeded, load bearing ability will not reduce for 1 hr. nondurable use in original context.
 Note average test specimen. See table entry of smaller design areas for recommended service.
 Note: 24 hour load bearing. Based 24 hour one-day bearing.
 Filled foam stream.
 Test standardized due to flame penetration.
 Test standardized - local back face temperature value.
 Note: 1 x 4 wood studs of No. 1 common or better lumber net dimensions. 2 x 4 platen on top and bottom and blocking at 24" height of wall.
 Density insulation consists of rock wool bats 1.0 lb/ft³ of filled cavity area.
 Density insulation consists of glass-wool bats 2.0 lb/ft³ of filled cavity area.
 Density insulation consists of glass-wool bats 2.0 lb/ft³ of filled cavity area.
 The proportions for plastered walls are follows: First ratio indicates finish coat side, weight of dry plaster (dry mix); second ratio indicates brown coat side.
 "Half" plaster is taken to mean unadorned modern-type gypsum plaster.
 Load - 360 psi of net stud cross-sectional area.
 Based on net load bearing.



Staggered studs

UNIT STYLE: 2 BEDROOM TYP

UNIT STYLE: 2 BEDROOM TYP

UNIT STYLE: 3 BEDROOM TYP

NEW FLOOR PLANS

BUILDING TYPE "D"

LOWER FLOOR

ELEC. (AS OC)
PHONE (AS OC)

3'-0" MIN

R23

R23

R6

R6

R23

R23

R23

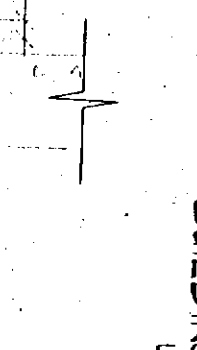
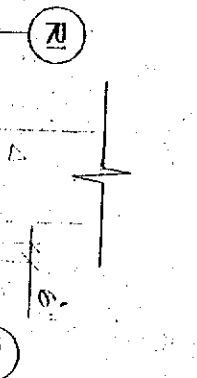
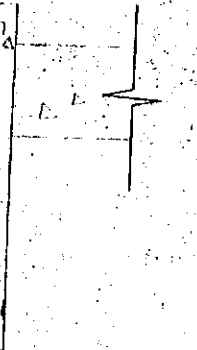
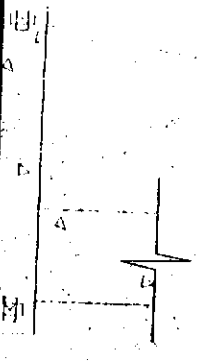
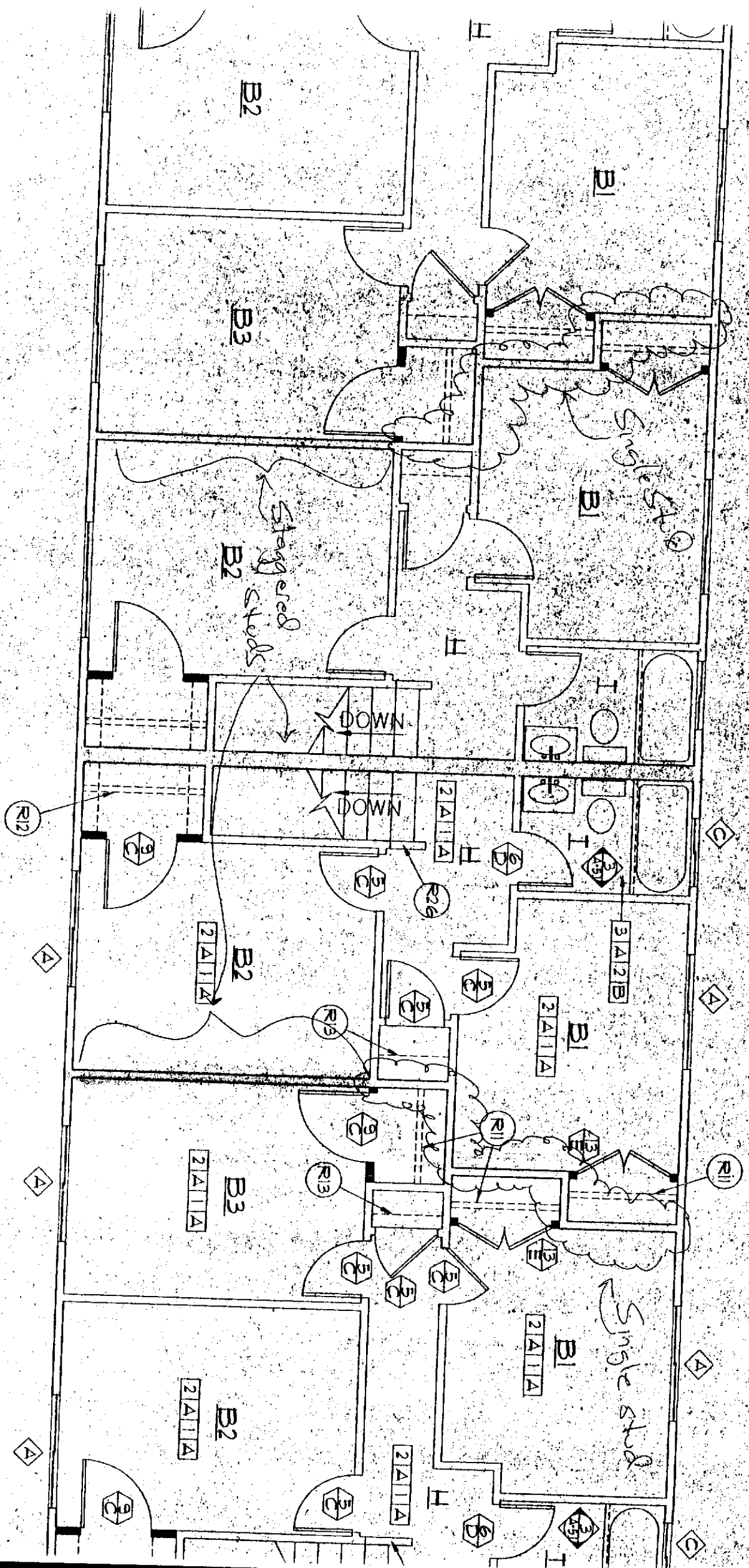
R23

R23

R23

R23

NEW FLOOR PL
BUILDING TYF
UPPER





1220 Melody Lane, Suite 160, Roseville, Ca 95678

(916)783-1140, fax: (916)783-1123

November 5, 1997

Keith Staley
Riverside Plumbing
3100 Riverside Blvd.
Sacramento, CA 95818

RE: RIVEROAKS HOUSING

Dear Keith & City of Sacramento Plumbing Inspector,

Our plans indicate a minimum 2" vent pipe sizing on all fixtures. We recognize this is an overkill and approve the plumbing contractor to size down these vents where the Uniform Plumbing Code permits, ie. The use of a 1.1/2" vent at a sink or clothes washer in lieu of the 2" as specified is approved.

Sincerely,

Larry N. Oliver, CIPE
Project Manager