Campus: UCSF Parnassus Building Name: 1486-88 5th Ave.

CAAN ID: 2060

Auxiliary Building ID: NA



FORM 1
CERTIFICATE OF SEISMIC PERFORMANCE LEVEL

Date: 2/3/2020

UC-Designed & Constructed Facility

□ Campus-Acquired or Leased Facility

BUILDING DATA

Building Name: 1486-88 5th Ave.

Address: 1486-88 5th Avenue, San Francisco

Site location coordinates: Latitude 37.76080 Longitudinal -122.46162

UCOP SEISMIC PERFORMANCE LEVEL (OR "RATING"): |||

ASCE 41-17 Model Building Type:

a. Longitudinal Direction: W1: Wood Frame with Wood Shear Panels

b. Transverse Direction: W1: Wood Frame with Wood Shear Panels

Gross Square Footage: 2725 sf Number of stories *above* grade: 3

Number of basement stories below grade: 0

Year Original Building was Constructed: 1915 Original Building Design Code & Year: NA

Retrofit Building Design Code & Code (if applicable): 2010 CBC & ASCE 7-05

SITE INFORMATION

Site Class: C Basis: UCSF Group 3 Buildings – Geotechnical Assessment, Egan (2019)

Geologic Hazards:

Fault Rupture: No
Liquefaction: No
Basis UCSF Group 3 Buildings – Geotechnical Assessment, Egan (2019)
Basis: UCSF Group 3 Buildings – Geotechnical Assessment, Egan (2019)
Landslide: No
Basis: UCSF Group 3 Buildings – Geotechnical Assessment, Egan (2019))

ATTACHMENT

Original Structural Drawings: NA

Seismic Evaluation: NA

Retrofit Structural Drawings: 1486 & 1488 Fifth Avenue Housing Remodel, UCSF Project M0549, by FTF

Engineers dated 9/13/2011 (9 sheets); Sheet S-1.0 and A1 attached.

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Date: 2/3/2020

CERTIFICATION & PRESUMPTIVE RATING VERIFICATION STATEMENT

I, Maryann T. Phipps, a California-licensed structural engineer, am responsible for the completion of this certificate, and I have no ownership interest in the property identified above. My scope of review to support the completion of this certificate included both of the following ("No" responses must include an explanation): a) the review of structural drawings indicating that they are as-built or record drawings, or that they otherwise are the basis for the construction of the building: ✓ Yes □ No b) visiting the building to verify the observable existing conditions are reasonably consistent with those shown on the structural drawings: ✓ Yes □ No Based on my review, I have verified that the UCOP Seismic Performance Level (SPL) is presumptively permitted by the following UC Seismic Program Guidebook provision (choose one of the following): □ 1) Contract documents indicate that the original design and construction of the aforementioned building is in accordance with the benchmark design code year (or later) building code seismic design provisions for UBC or IBC listed in Table 1 below. ☐ 2) The existing SPL rating is based on an acceptable basis of seismic evaluation completed in 2006 or later. ☑ 3) Contract documents indicate that a comprehensive building seismic retrofit design was fullyconstructed with an engineered design based on the 1997 UBC/1998 or later CBC, and (choose one of the following): ☐ the retrofit project was completed by the UC campus. Further, the design was based on ground motion parameters, at a minimum, corresponding to BSE-1E (or BSE-R) and BSE-2E (or BSE-C) as defined in ASCE 41, or the full design basis ground motion required in the 1997 UBC/1998 CBC or later for EXISTING buildings, and is presumptively assigned an SPL rating of IV. 🖂 the retrofit project was completed by the UC campus. Further, the design was based on ground motion parameters, at a minimum, corresponding to BSE-1 (or BSE-1N) and BSE-2 (or BSE-2N) as defined in ASCE 41, or the full design basis ground motion required in the 1997 UBC/1998 or later CBC for NEW buildings, and is presumptively assigned an SPL rating of III. ☐ the retrofit project was not completed by the UC campus following UC policies, and is presumptively assigned an SPL rating of IV.

¹ A comprehensive retrofit addresses the entire building structural system as indicated by the associated seismic evaluation, as opposed to addressing selective portions of the structural system.

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Date: 2/3/2020

CERTIFICATION SIGNATURE

Maryann T. PhippsPresidentPrint NameTitle

S2995 6/30/2020

CA Professional Registration No. License Expiration Date

aryan J. Thipps 2/3/2020

Signature Date

AFFIX SEAL HERE

PROFESSIONALIANN T. PHILADAN No. 2995
EXP. 6/30/20

STRUCTURE REP. 2/3/2020

Estructure, (510) 235-3116, 1144 65th St Suite A, Oakland

Firm Name, Phone Number, and Address

Campus: UCSF Parnassus

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Date: 2/3/2020

Table 1: Benchmark Building Codes and Standards

Building Seismic Do		Design Provisions
Building Type ^{a,b}	UBC	IBC
Wood frame, wood shear panels (Types W1 and W2)	1976	2000
Wood frame, wood shear panels (Type W1a)	1976	2000
Steel moment-resisting frame (Types S1 and S1a)	1997	2000
Steel concentrically braced frame (Types S2 and S2a)	1997	2000
Steel eccentrically braced frame (Types S2 and S2a)	1988 ^g	2000
Buckling-restrained braced frame (Types S2 and S2a)	f	2006
Metal building frames (Type S3)	f	2000
Steel frame with concrete shear walls (Type S4)	1994	2000
Steel frame with URM infill (Types S5 and S5a)	f	2000
Steel plate shear wall (Type S6)	f	2006
Cold-formed steel light-frame construction—shear wall system (Type CFS1)	1997 ^h	2000
Cold-formed steel light-frame construction—strap-braced wall system (Type CFS2)	f	2003
Reinforced concrete moment-resisting frame (Type C1) ⁱ	1994	2000
Reinforced concrete shear walls (Types C2 and C2a)	1994	2000
Concrete frame with URM infill (Types C3 and C3a)	f	f
Tilt-up concrete (Types PC1 and PC1a)	1997	2000
Precast concrete frame (Types PC2 and PC2a)	f	2000
Reinforced masonry (Type RM1)	1997	2000
Reinforced masonry (Type RM2)	1994	2000
Unreinforced masonry (Type URM)	f	f
Unreinforced masonry (Type URMa)	f	f
Seismic isolation or passive dissipation	1991	2000

Note: This table has been adapted from ASCE 41-17 Table 3-2. Benchmark Building Codes and Standards for Life Safety Structural Performed at BSE-1E.

Note: UBC = Uniform Building Code. IBC = International Building Code.

 $^{^{\}rm a}$ Building type refers to one of the common building types defined in Table 3-1 of ASCE 41-17.

^b Buildings on hillside sites shall not be considered Benchmark Buildings.

c not used

 $^{^{\}it d}$ not used

e not used

^f No benchmark year; buildings shall be evaluated in accordance with Section III.J.

g Steel eccentrically braced frames with links adjacent to columns shall comply with the 1994 UBC Emergency Provisions, published September/October 1994, or subsequent requirements.

 $^{^{\}it h}$ Cold-formed steel shear walls with wood structural panels only.

¹ Flat slab concrete moment frames shall not be considered Benchmark Buildings.

STRUCTURAL NOTES

1. DESIGN CRITERIA: 1.1 NOT USED.

- 1.2 DEAD LOADS: BASED ON WEIGHTS OF EXISTING AND NEW MATERIALS OF CONSTRUCTION
- 1.3 LIVE LOADS:

ROOF (FLAT) = 20 PSF

1.4 SEISMIC (ASCE 7-05): V = 1.00 W (LRFD)IMPORTANCE FACTOR | = 1.0 REDUNDANCY FACTOR RHO p = 1.3 S_V = 1.257S₁ = 0.838 STRUCTURAL SYSTEM FACTOR R = 6.5 PLYWOOD SW ANAYLSIS PROCEDURE LINEAR STATIC

1.5 WIND LOADS (ASCE 7-05 SIMPLIFIED PROCEDURE):

PRIMARY SYSTEMS $P = \lambda K_{ZT} I p_{S30}$ = 12.9 PSF

WHERE. V = 85 MPHBASIC WIND SPEED $\lambda = 1.0$ H = 40FT, EXPOSURE B TOPOGRAPHIC EFFECT $K_{ZT} = 1.0$ $p_{S30} = 12.9 PSF$

PRIMARY SYSTEMS, ZONE A $I_{W} = 1.0$ STANDARD OCCUPANCY

- 2.1 NOTES, TYPICAL DETAILS AND SCHEDULES APPLY TO ALL STRUCTURAL WORK UNLESS NOTED OTHERWISE. FOR CONDITIONS NOT SPECIFICALLY SHOWN PROVIDE DETAILS OF A SIMILAR NATURE. VERIFY APPLICABILITY WITH THE UNIVERSITY IF NEEDED.
- 2.2 REVIEW ALL EXISTING FEATURES AND CONDITIONS UPON WHICH THESE DRAWINGS RELY.
- 2.3 COMPARE STRUCTURAL DRAWINGS WITH THE VARIOUS OTHER DRAWINGS AND SPECIFICATIONS BEFORE COMMENCING THE WORK. NOTIFY THE UNIVERSITY'S REPRESENTATIVE OF ANY DISCREPANCIES AND DO NOT PROCEED WITH AFFECTED WORK UNTIL THEY ARE RESOLVED.
- 2.4 DO NOT SCALE DRAWINGS TO OBTAIN DIMENSIONAL INFORMATION. 2.5 SEE ARCHITECTURAL, MECHANICAL, ELECTRICAL AND PLUMBING
- DRAWINGS AND SPECIFICATIONS FOR INSERTS. SLEEVES. BLOCKOUTS AND OTHER CONDITIONS.
- 2.6 SEE ARCHITECTURAL DRAWINGS FOR ALL WATERPROOFING AND DAMPROOFING DETAILS.

3. CONSTRUCTION: 3.1 NOT USED.

- 3.2 THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE PROTECTION OF LIFE AND PROPERTY DURING CONSTRUCTION OF THIS BUILDING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ANY SHORING, BRACING AND SCAFFOLDING REQUIRED TO COMPLETE THIS WORK. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING, BRACING, AND SCAFFOLDING IN ACCORDANCE WITH ALL NATIONAL, STATE AND LOCAL SAFETY ORDINANCES. SHORING AND BRACING SHALL REMAIN IN PLACE UNTIL FLOORS, ROOFS, WALLS, AND SHEATHING THAT AFFECT THE SHORED PORTION OF THE WORK HAVE BEEN ENTIRELY CONSTRUCTED. THE UNIVERSITY'S REPRESENTATIVE'S PRESENCE OR REVIEW OF THE WORK DOES NOT INCLUDE THE ADEQUACY OF THE CONTRACTOR'S METHODS OR MEASURES.
- 3.3 THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND MINIMIZE MOVEMENT/SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE OR OUTSIDE OF THE PROJECT LIMITS. THE CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR ALL SHORING, BRACING, AND SOIL RETENTION SYSTEMS NEEDED TO BRING THE PROJECT TO ITS PERMANENT (AS DESIGNED) CONDITION. 3,4 THE CONTRACTOR'S TEMPORARY MEASURES SHALL BE ARRANGED OR
- DESIGNED SO AS TO NOT ALTER OR AFFECT THE PERMANENT STRUCTURE. 3.5 THE IMPOSED CONSTRUCTION LOADS SHALL NOT BE MORE THAN DESIGN
- LIVE LOADS. 3.6 WORK SHALL INCLUDE REPAIR AND/OR REPLACEMENT OF DEFECTIVE
- ITEMS. 3.7 OPENINGS IN FLOORS, SHEAR WALLS, BEAMS, OR JOISTS LARGER THAN THOSE SHOWN ON TYPICAL DETAILS OR STRUCTURAL DRAWINGS SHALL BE REVIEWED BY UNIVERSITY'S REPRESENTATIVE BEFORE PROCEEDING
- WITH THE WORK.

4. EXISTING CONDITIONS:

- 4.1 INFORMATION REGARDING EXISTING CONDITIONS IS PRESENTED FOR REFERENCE ONLY. THE CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS BEFORE STARTING WORK AND NOTIFY THE UNIVERSITY'S REPRESENTATIVE OF ANY DISCREPANCIES BEFORE PROCEEDING WITH WORK.
- 4.2 THE REMOVAL CUTTING, DRILLING, ETC. OF EXISTING WORK SHALL BE PERFORMED WITH GREAT CARE AND SMALL TOOLS IN ORDER NOT TO JEOPARDIZE THE STRUCTURAL INTEGRITY OF THE BUILDING. IF STRUCTURAL MEMBERS NOT INDICATED FOR REMOVAL INTERFERE WITH THE NEW WORK, THE UNIVERSITY'S REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY AND PRIOR APPROVAL OBTAINED BEFORE PROCEEDING WITH THE WORK.

5. EXCAVATION, UNDERPINNING AND SHORING

5.1 THE CONTRACTOR SHALL PROVIDE ALL MEASURES AND PRECAUTIONS NECESSARY TO PREVENT DAMAGE AND MINIMIZE SETTLEMENT OF EXISTING OR NEW CONSTRUCTION INSIDE OR OUTSIDE OF THE PROJECT LIMITS. ANY DAMAGE TO NEW OR EXISTING CONSTRUCTION INSIDE OR OUTSIDE OF THE PROJECT LIMITS CAUSED BY CONSTRUCTION TECHNIQUES OR MOVEMENTS OF THE SOIL RETENTION SYSTEMS IS THE RESPONSIBILITY OF THE CONTRACTOR.

- 5.2 DESIGN AND CONSTRUCTION OF TEMPORARY AND/OR PERMANENT UNDERPINNING, SHORING AND BULK HEADING FOR EARTH RETENTION DURING EXCAVATION SHALL BE BY AN EXPERIENCED SUBCONTRACTOR WHO SPECIALIZES IN THIS TYPE OF WORK.
- 5.3 SHORING, UNDERPINNING, AND EARTH RETENTION CALCULATIONS AND DRAWINGS, IF REQUIRED, SHALL BE PREPARED AND SUBMITTED TO THE UNIVERSITY'S REPRESENTATIVE FOR REVIEW PRIOR TO CONSTRUCTION. CALCULATIONS AND DRAWINGS SHALL BE PREPARED UNDER THE SUPERVISION OF, AND SIGNED AND STAMPED BY A CIVIL ENGINEER LICENSED IN THE STATE OF CALIFORNIA.
- 5.4 PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL ESTABLISH BENCH MARKS AROUND THE PERIMETER OF THE AREA TO BE EXCAVATED. THESE MARKS SHALL BE SURVEYED FOR VERTICAL AND HORIZONTAL MOVEMENT AT FREQUENT INTERVALS DURING ACTUAL EXCAVATION AND CONTINUING DURING EACH SUBSEQUENT PHASE OF THE WORK AND SUBMITTED TO THE UNIVERSITY'S REPRESENTATIVE FOR INFORMATION.
- 5.5 THE CONTRACTOR SHALL PROVIDE POSITIVE PROTECTION (MAT/SHEET COVERINGS) FOR ALL EXCAVATION SLOPES TO PROTECT SLOPES FROM INSTABILITY AND DETERIORATION DUE TO RAIN OR WIND.
- 5.6 THE UNIVERSITY'S SOIL TESTING LABORATORY SHALL REVIEW AND MONITOR THE EXCAVATION AND FOUNDATION/RETAINING WALL CONSTRUCTION.

6. FOUNDATIONS/SITE PREPARATION:

6.1 FOUNDATION DESIGN IS BASED ON CHAPTER 18. CBC.

CONTINUOUS FOOTINGS:

MAXIMUM SOIL PRESSURE = 1.500 PSF DL + LL = 2.000 PSF DL + LL + SEISMIC/WIND

ISOLATED FOOTINGS: MAXIMUM SOIL PRESSURE = 1,500 PSF DL + LL = 2,000 PSF DL + LL + EQ

RETAINING WALLS:

= 45 PCF (DRAINED) SURCHARGE RATE = .03 LATERAL BEARING = N/A SLAB RESISTS SLIDING FRICTION = N/A SLAB RESISTS SLIDING

- 6.2 FOOTINGS SHALL EXTEND TO SUCH DEPTH AS TO BEAR ON FIRM. UNDISTRIBUTED SOIL. FOOTING DEPTHS SHOWN ON THE DRAWINGS ARE MINIMUM DEPTHS. FOOTINGS MAY BE POURED IN NEAT EXCAVATED TRENCHES, PROVIDED PRECAUTIONS ARE TAKEN TO INSURE NO CAVING OR SLUFFING OCCURS WHICH WILL RESULT IN UNSUITABLE BASE CONDITIONS OR INCLUSION OF SOIL MATERIAL IN THE CONCRETE WORK.
- 6.3 MATERIALS FOR SUB-CAPILLARY BREAK UNDER CONCRETE SLABS ON GRADE SHALL BE FREE-DRAINING GRAVEL OR CRUSHED ROCK. NOT MORE THAN 10% OF ROCK MAY PASS A NO. 10 SIEVE (U.S. SERIES) AND NOT MORE THAN 2% MAY PASS A NO. 100 SIEVE (U.S. SERIES). ROCK COURSE SHALL BE ROLLED TO A SMOOTH SURFACE. A 2" MINIMUM LAYER OF SAND SHALL BE PLACED OVER THE SUB-SLAB VAPOR BARRIER OR MEMBRANE. MOISTEN SAND JUST PRIOR TO POURING CONCRETE SLAB.
- 6.4 BEFORE BACKFILLING BEHIND CONCRETE WALLS (BASEMENT WALLS, RETAINING WALLS, ETC.) CONCRETE SHALL HAVE ATTAINED FULL DESIGN STRENGTH AND ALL SUPPORTS (FLOORS, SLABS, BEAMS, ETC.) WHICH ARE REQUIRED FOR THE STABILITY OF THE WALL SHALL HAVE BEEN COMPLETED.
- 6.5 FOOTING EXCAVATIONS SHALL BE CLEANED OF LOOSE SOILS. NO FOUNDATIONS SHALL BE POURED INTO OR AGAINST SUB-GRADE CONTAINING FREE WATER, DEWATERING, IF REQUIRED, MUST BE CAREFULLY AND PROPERLY DONE TO AVOID DISTURBING THE FOUNDATION SOILS. OVER-EXCAVATED AREA FOUNDATIONS MUST BE BACKFILLED WITH CONCRETE.

CONCRETE WORK:

- 7.1 FORMS SHALL BE PROPERLY CONSTRUCTED CONFORMING TO CONCRETE SURFACES AS SHOWN ON THE DRAWINGS, SUFFICIENTLY TIGHT TO PREVENT LEAKAGE, SUFFICIENTLY STRONG AND BRACED TO MAINTAIN THEIR SHAPE AND ALIGNMENT UNTIL NO LONGER NEEDED TO SUPPORT THE CONCRETE. FORMS AND SHORING SHALL NOT BE REMOVED UNTIL THE CONCRETE HAS ATTAINED SUFFICIENT STRENGTH TO WITHSTAND ALL LOADS TO BE IMPOSED WITHOUT EXCESSIVE STRESS, CREEP OR DEFLECTION.
- 7.2 SEE ARCHITECTURAL, ELECTRICAL, HVAC, PLUMBING AND MECHANICAL DRAWINGS FOR DETAILS AT DOOR AND WINDOW OPENINGS, FLOOR TYPE HINGES, TYPE AND LOCATION OF ALL FLOOR FINISHES, FLOOR DEPRESSIONS AND CURBS, ETC., AND FOR LOCATION OF SLEEVES, PIPES AND OTHER EMBEDDED ITEMS. OPENINGS THROUGH SLAB OR WALLS NOT SHOWN ON STRUCTURAL DRAWINGS WHICH WOULD INTERRUPT REINFORCING BARS SHALL NOT BE MADE WITHOUT APPROVAL OF THE UNIVERSITY'S REPRESENTATIVE.
- 7.3 PIPES OTHER THAN ELECTRICAL CONDUITS 1 INCH DIAMETER MAXIMUM SHALL NOT BE EMBEDDED IN STRUCTURAL CONCRETE EXCEPT WHERE SPECIFICALLY APPROVED BY THE UNIVERSITY'S REPRESENTATIVE.
- 7.4 ALL REINFORCING, EMBEDMENTS, INSERTS, ETC., SHALL BE POSITIVELY SECURED IN PROPER LOCATION BEFORE CONCRETE IS PLACED. PROVIDE SUFFICIENT SUPPORTS TO PREVENT DISPLACEMENT DURING PLACING AND FINISHING OPERATIONS.
- 7.5 WHERE NOT SHOWN ON STRUCTURAL DRAWING, SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS OF SLAB AND WALL OPENINGS, SLAB EDGE LOCATIONS, LOCATIONS OF MISCELLANEOUS INTERIOR CONCRETE WALLS AND CURBS, TOP OF FLOOR SLAB ELEVATIONS, SLAB DEPRESSIONS REQUIRED TO ACCOMMODATE ARCHITECTURAL FLOOR FINISH DETAILS, CONCRETE STAIR LOCATIONS, ETC.
- 7.6 CONCRETE SHALL BE READY MIXED CONFORMING TO ASTM C94, HAVING THE FOLLOWING MINIMUM 28 DAY ULTIMATE COMPRESSIVE STRENGTHS AND UNIT WEIGHTS:

FOOTINGS, RETAINING WALLS 3,000 PSI, 145 PCF GRADE BEAMS...... 3,000 PSI, 145 PCF

SLAB-ON-GRADE, SIDEWALK, CURBS, BACKFILL CONCRETE.

ALL OTHER CONCRETE.............. 2,500 PSI, 145 PCF 7.7 USE MINIMUM 4-1/2 SACKS OF CEMENT PER CUBIC YARD FOR 2500 PSI CONCRETE AND 5 SACKS FOR 3000 PSI CONCRETE

- 7.8 CONTRACTOR SHALL SUBMIT FOR REVIEW BY THE UNIVERSITY'S REPRESENTATIVE THE CONTRACTOR'S PROPOSED CONCRETE MIXES, DESIGNED BY THE CONCRETE SUPPLIER AND REVIEWED BY THE UNIVERSITY'S TESTING AGENCY.
- (INCLUDE INFORMATION TO SHOW CONFORMANCE WITH MATERIAL. STRENGTH, AND PROPORTIONING REQUIREMENTS OF THE CONTRACT DOCUMENTS.) 7.9 PROPORTION CONCRETE WITH A MINIMUM OF 20% AND A MAXIMUM OF
- 50% FLY ASH OR SLAG REPLACEMENT. 7.10 USE WATER THAT IS CLEAN AND FREE FROM INJURIOUS AMOUNTS OF OILS.
- ACIDS. ALKALIS. SALTS. ORGANIC MATERIALS. OR OTHER SUBSTANCES DELETERIOUS TO CONCRETE OR REINFORCEMENT. 7.11 NO CALCIUM CHLORIDE SHALL BE USED IN ANY CONCRETE

7.12 SLUMP SHALL BE THE MINIMUM CONSISTENT WITH PROPER PLACING, IN

- GENERAL: STRUCTURAL SLABS................ 2-1/2" TO 3-1/2" FOOTINGS, SLAB ON GRADE 3-1/2" TO 4-1/2"
- THIN OR CONGESTED SECTIONS. 4-1/2" TO 5" 7.13 USE 3/4" AGGREGATE WHEREVER CLEARANCES PERMIT. USE 3/8" AGGREGATE ONLY WHERE NECESSARY FOR PROPER
- PLACING, SUCH AS IN THIN SECTIONS, ETC 7.14 ALL CONCRETE EXCEPT SLABS ON GRADE 6" THICK OR LESS SHALL BE MECHANICALLY VIBRATED SO AS TO COMPLETELY FILL THE FORMS WITHOUT CAUSING UNDUE SEGREGATION
- 7.15 HORIZONTAL CONSTRUCTION JOINTS SHALL BE LOCATED AS SHOWN ON THE DRAWINGS, AND THE HARDENED CONCRETE SURFACES SHALL BE CLEANED BY SAND-BLASTING OR OTHER APPROVED MEANS TO EXPOSE FIRMLY EMBEDDED AGGREGATES PRIOR TO POURING ADDITIONAL CONCRETE IN CONTACT WITH THESE SURFACES.
- 7.16 VERTICAL CONSTRUCTION JOINTS SHALL BE FORMED AND KEYED AND NOT OVER 60 FEET APART. VERTICAL CONSTRUCTION JOINTS THROUGH BEAMS OR SLABS SHALL BE LOCATED BETWEEN THE 1/2 AND 1/2 POINTS OF THE SPAN. THE CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS SHOWING THE LOCATIONS OF ALL CONSTRUCTION JOINTS AND CONTROL JOINTS.
- 7.17 CONTRACTOR SHALL INFORM THE UNIVERSITY'S REPRESENTATIVE AT LEAST 2 DAYS PRIOR TO POURING ANY STRUCTURAL CONCRETE FOR THE OPPORTUNITY TO REVIEW THE WORK PRIOR TO PLACEMENT.

8. CONCRETE REINFORCING STEEL

- 8.1 REINFORCING BARS SHALL BE DEFORMED BARS CONFORMING TO ASTM A615 GRADE 60 FOR ALL BAR SIZES AND ASTM A706 GRADE 60 FOR ALL WELDED BARS.
- 8.2 WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185 IN FLAT SHEETS. AND IN SLABS MAY BE RAISED INTO POSITION DURING THE CONCRETE POURING OPERATION. LAP WIRE FABRIC 12" MINIMUM.
- 8.3 ALL CONCRETE REINFORCEMENT SHALL BE DETAILED, FABRICATED LABELED, SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE PROCEDURES REQUIREMENTS OUTLINED IN THE LATEST EDITION OF THE "BUILDING CODE REQUIREMENTS FOR AND REINFORCED CONCRETE," ACI 318 AND THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES," ACI 315 8.4 UNLESS OTHERWISE NOTED, MAINTAIN COVERAGE TO FACE OF BARS AS
- b. FORMED SURFACES EXPOSED TO EARTH OR WEATHER
 - c. JOISTS, SUSPENDED SLABS, INTERIOR WALL SURFACES NO. 14 AND LARGER..... 1-1/2"

- 8.5 REINFORCING SHALL BE CONTINUOUS WITH SPLICES ONLY WHERE SHOWN 8.6 FOR MINIMUM LAP LENGTH, SEE SCHEDULE UNLESS OTHERWISE NOTED. SPLICES TO BE STAGGERED SO THAT HALF OR LESS OF BARS ARE LAPPED AT ONE POINT.
- 8.7 BAR SUPPORTS IN CONTACT WITH EXPOSED SURFACES SHALL BE PLASTIC
- 8.8 BEAM AND SLAB REINFORCING SHALL NOT BE SLEEVED OR OTHERWISE INTERRUPTED EXCEPT AS SHOWN ON THE STRUCTURAL DRAWINGS.
- 8.9 ALL WALLS AND SLABS SHALL BE DOWELED INTO FOOTINGS. WALLS BEAMS, GIRDERS, COLUMNS OR SLABS WITH BARS OF THE SAME SIZE AND SPACING. UNLESS NOTED OTHERWISE.
- 8.10 ADDITIONAL BARS SHALL BE PROVIDED AROUND ALL FLOOR AND WALL OPENINGS.

9. STRUCTURAL STEEL:

- 9.1 MISCELLANEOUS IRON AND STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED ACCORDING TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION "SPECIFICATION FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS." LATEST EDITION, AND THE "CODE FOR STANDARD PRACTICE FOR STEEL BUILDINGS AND BRIDGES," LATEST EDITION.
- 9.2 ALL BEAMS SHALL BE FABRICATED WITH THE NATURAL CAMBER UP. PROVIDE CAMBERS AS INDICATED ON THE DRAWINGS.
- 9.3 AFTER FABRICATION, ALL STEEL SHALL BE CLEANED OF ALL RUST, LOOSE MILL SCALE AND OTHER FOREIGN MATERIALS AND A COAT OF PRIMER PAINT APPLIED.
- 9.4 THE CONTRACTOR WILL BE RESPONSIBLE FOR REVIEWING ALL STRUCTURAL STEEL DETAILS, WELDING SEQUENCES, AND FABRICATION AND ERECTION PROCEDURES WITH STEEL MANUFACTURER, FOR THE INTENDED USE OF STRUCTURAL STEEL
- 9.5 THE CONTRACTOR SHALL SUBMIT TO THE UNIVERSITY'S REPRESENTATIVE, FOR REVIEW, ENGINEERED AND CHECKED DRAWINGS SHOWING SHOP FABRICATION DETAILS, FIELD ASSEMBLY DETAILS AND ERECTION DIAGRAMS FOR ALL STRUCTURAL STEEL
- 9.6 THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TEMPORARY LOADING CONDITIONS DURING CONSTRUCTION AND SHALL PROVIDE BRACING AND SHORING WHERE REQUIRED.
- 9.7 THERE SHALL BE NO FIELD CUTTING OF STRUCTURAL STEEL MEMBERS FOR THE WORK OF OTHER TRADES WITHOUT THE PRIOR APPROVAL OF THE UNIVERSITY'S REPRESENTATIVE.

- 9.8 ALL ADDITIONAL STEEL REQUIRED BY THE CONTRACTOR FOR ERECTION PURPOSES AND SITE ACCESS OF STOCKPILED MATERIALS SHALL BE PROVIDED AT NO COST TO THE UNIVERSITY. ALL SUCH ADDITIONAL STEEL SHALL BE REMOVED BY THE CONTRACTOR UNLESS APPROVED BY THE UNIVERSITY'S REPRESENTATIVE IN WRITING.
- 9.9 EXCEPT WHERE OTHERWISE SHOWN, STEEL SECTIONS SHALL CONFORM TO THE FOLLOWING:
 - a. ALL STRUCTURAL STEEL PLATES, BARS, ETC...... b. WIDE FLANGE TYPICAL BEAMS AND GIRDERS.....
 - c. STRUCTURAL TUBES (RECTANGULAR OR SQUARE HSS)....... ASTM A500 GRADE B (Fy = 46ksi) d. STRUCTURAL PIPES (ROUND HSS)

......ASTM A992, GRADE 50

- e. TYPICAL (GRAVITY) BASE PLATES ASTM A572, GRADE 50
- f. ALL CONTINUITY, REINFORCING, g. GUSSET PLATES, BARS AND BASE PLATES ASSOCIATED W/ MOMENT AND BRACED FRAMES ASTM A572, GRADE 50
- 9.10 WELDING OF STRUCTURAL STEEL: a. ALL WELDING SHALL CONFORM TO THE REQUIREMENTS OF AWS CODE FOR ARC AND GAS WELDING IN BUILDING CONSTRUCTION, LATEST EDITION, AND SHALL BE PERFORMED BY WELDERS
 - CERTIFIED IN THE APPLICABLE PROCEDURE & POSITION. b. E-70XX ELECTRODES SHALL BE USED AT ALL WELDED STEEL CONNECTIONS.
 - c. ALL BUTT WELDING SHALL BE FULL PENETRATION WELDS UNLESS OTHERWISE NOTED. FILLET WELD SIZES NOT SHOWN SHALL BE AWS MINIMUM SIZES BASED ON THICKNESS OF MATERIALS BEING WELDED, BUT NOT LESS THAN 1/4".
 - d. ALL WELDING SHALL BE PERFORMED IN ACCORDANCE WITH A WELDING PROCEDURE SPECIFICATION (WPS) THAT HAS BEEN REVIEWED BY THE ENGINEER OF RECORD AND THE TESTING AND INSPECTION AGENCY. THE WPS VARIABLES SHALL BE WITHIN THE PARAMETERS ESTABLISHED BY THE FILLER METAL MANUFACTURER.
 - e. ALL WELDS USED IN MEMBERS AND CONNECTIONS IN THE SEISMIC LOAD RESISTING SYSTEM (SLRS) SHALL BE MADE WITH A FILLER METAL THAT CAN PRODUCE WELDS THAT HAVE A MINIMUM CHARPY V-NOTCH TOUGHNESS OF 20 FT-LB AT 0°F, AS DETERMINED BY AWS CLASSIFICATION OR MANUFACTURER CERTIFICATION. SEE PLANS & DETAILS FOR CONNECTIONS **DENOTED "SLRS."**
 - f. ALL COMPLETE PENETRATION WELDS SHALL BE STARTED AND ENDED ON RUN-OFF TABS WHERE PRACTICAL. ALL RUNOFF TABS SHALL BE REMOVED AND THE AFFECTED AREA SHALL BE GROUND SMOOTH AND TESTED FOR DEFECTS.
 - g. WELD DAMS SHALL NOT BE USED.
 - h. ALL DEFECTIVE WELDS SHALL BE GROUND OUT, REPAIRED, AND RETESTED AT THE CONTRACTOR'S EXPENSE.
 - I. ALL WELDS SHALL BE STARTED AND ENDED WITH A MINIMUM LENGTH OF ONE INCH ON WELD TABS ("RUN OFF" TABS)EXCEPT AT ACCESS HOLES IN BEAM/GIRDER WEBS. ALL WELD TABS SHALL BE REMOVED, THE AFFECTED AREA GROUND SMOOTH AND MAGNETIC PARTICLE TESTED FOR DEFECTS.
 - k. ALL COMPLETE PENETRATION GROOVE WELDS SHALL BE ULTRASONICALLY (UT) EXAMINED FOR THE FULL LENGTH. BACKING BAR REMOVAL AREAS AND FILLET WELDS ON CONTINUITY PLATES SHALL BE EXAMINED FOR THE FULL LENGTH BY THE MAGNETIC PARTICLE TESTING (MPT) METHOD.
 - I. A COMPLETE WELDING PROCEDURE SHALL BE SUBMITTED TO AND APPROVED BY THE UNIVERSITY'S REPRESENTATIVE BEFORE ANY WELDING IS COMMENCED.

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> 654 Minnesota Street San Francisco, California 94107-0894 Fax: (415) 476-6503

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FTF ENGINEERING, INC 1916 McAllister Street San Francisco, CA 94115 tel - 415-931-8460 fax - 415-931-8461 www.ftfengineering.com

DESIGN PROFESSIONAL

FIRE MARSHAL

DIVISION OF THE STATE ARCHITECT

DO NOT SCALE DRAWING. ALL MARKED DIMENSIONS TAKE PRECEDENT.

ALL DIMENSIONS TO BE VERIFIED IN THE FIELD BY CONTRACTOR PRIOR TO EXECUTION OF WORKS.

PLAN CHECK REVISIONS

RESPONSE TO PLAN CHECK

RESPONSE TO PLAN CHECK 3

RECORD DRAWINGS

10.28.11

12.16.11

08.08.13

REVISIONS DESCRIPTION

Description of Work: Residential remodel with seismic retrofit.

Index of Drawings:

S-1.0 - General Notes

S-1.1 - General Notes

S-2.0 - First and Second Floor Plans S-2.1 - Third Floor and Roof Plans

S-3.0 - Concrete Details I S-4.0 - Framing Details I S-4.1 - Framing Details II

S-4.2 - Framing Details III

S-4.3 - Framing Details IV)

1486 & 1488 FIFTH AVE HOUSING REMODEL

DRAWING TITLE:

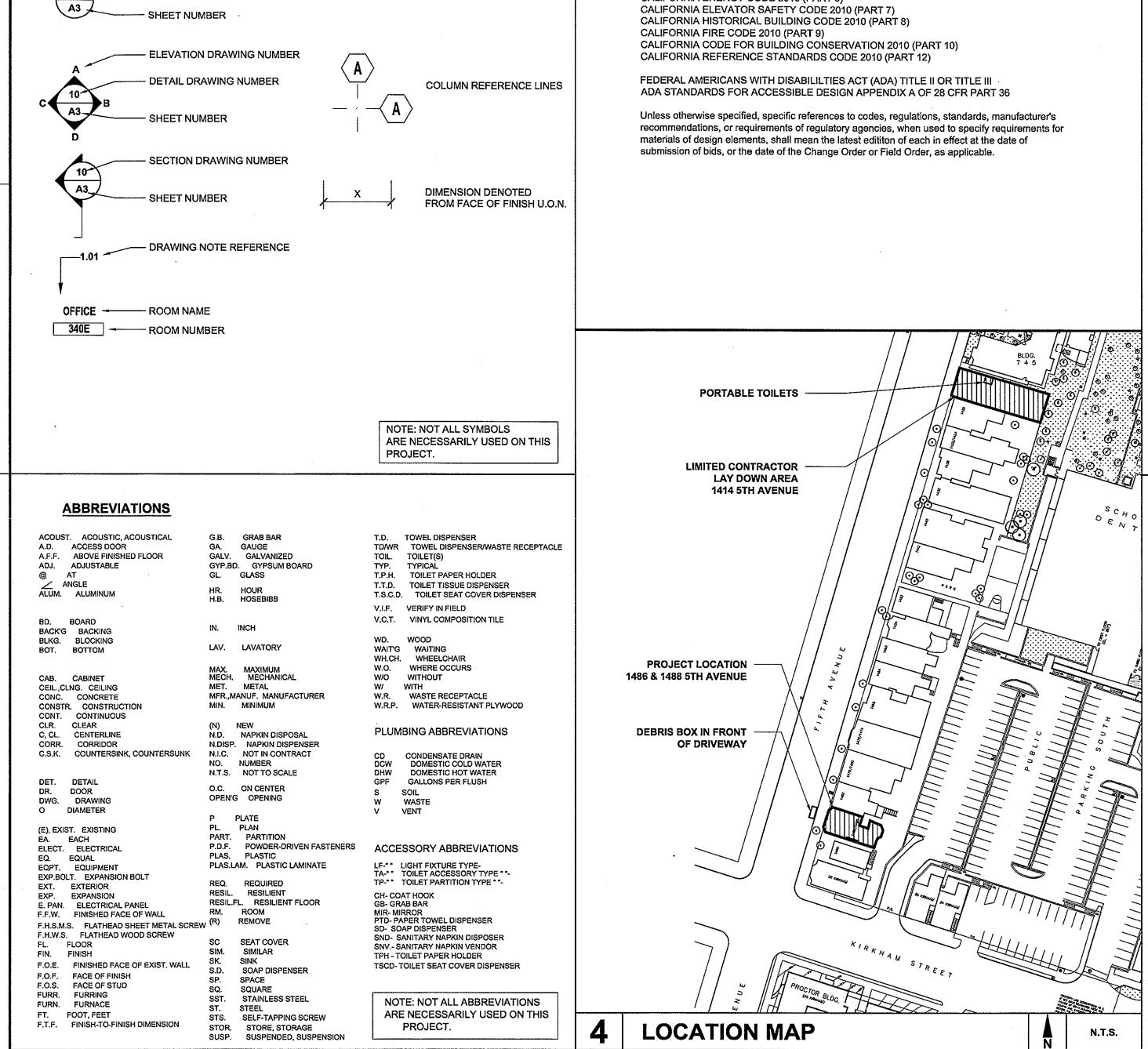
GENERAL NOTES

PROJECT NO:	FTF PROJECT NO:
M0549	11-068
CAAN NO:	FILE NO:
2420	
DRAWN/CHECKED BY:	SHEET NO:
BC/RC	910
DATE:	3-1. 0
09.13.11	

OF SHEETS

1486 - 88 FIFTH AVENUE HOUSING REMODEL

UNIVERSITY OF CALIFORNIA, SAN FRANCISCO



SYMBOLS

DETAIL DRAWING NUMBER

9'-0") - CEILING HEIGHT

APPLICABLE CODES

The work shall be performed in accordance with applicable code requirements and applicable

requirements of all other regulatory agencies, including, but not limited to the following:

CALIFORNIA BUILDING STANDARD ADMINISTRATIVE CODE 2010 (PART 1)

GENERAL NOTES

- DO NOT SCALE DRAWINGS FOR DIMENSIONAL INFORMATION, AS DRAWINGS ARE NOT NECESSARILY TO SCALE. FOR REQUIRED DIMENSIONS REFER FLOOR PLANS, DETAIL PLANS, TYPICAL DETAILS, SCHEDULES, NOTES AND SPECIFICATIONS.
- 2. VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS IN THE FIELD, ADVISE THE UNIVERSITY'S REPRESENTATIVE OF ANY DISCREPANCIES THAT AFFECT THE NEW

CONSTRUCTION NOTES

NOTIFY UCSF CAPITAL PROGRAMS INSPECTION UNIT TO SCHEDULE APPROPRIATE INSPECTIONS FOR EACH PHASE OF WORK BEFORE PROCEEDING TO NEXT PHASE

FIRE SPRINKLER SYSTEM

- INSTALL COMPLETE, MONITORED SPRINKLER SYSTEM IN ACCORDANCE WITH CBC CHAPTER 9 AND NFPA 13.
- INSTALL ALL REQUIRED PANELS AND EXTERIOR SPRINKLER ACTUATION BELL. SPRINKLER HEADS IN FINISHES LIVING SPACES SHALL BE RECESSED AND
- DEFERRED APPROVAL SUBMIT SHOP DRAWINGS FOR FIRE SPRINKLERS TO UNIVERSITY'S DESIGNATED CAMPUS FIRE MARSHAL FOR APPROVAL, AND OBTAIN APPROVAL PRIOR TO BEGINNING CONSTRUCTION ON SUCH, IF APPLICABLE. CALL FOR APPOINTMENT 415,502,8042.

DETECTION / ALARM SYSTEMS

- 1. INSTALL FIRE AND CARBON MONOXIDE DETECTION SYSTEMS IN ACCORDANCE
 - INSTALL ALL CONDUIT AND CABLING. PROVIDE DEVICES, DEVICES WILL BE INSTALLED AND PROGRAMMED BY UNIVERSITY. PANELS WILL BE PROVIDED AND INSTALLED BY UNIVERSITY. REFER TO ELECTRICAL DRAWINGS.
- DEFERRED APPROVAL: SUBMIT SHOP DRAWINGS FOR THE DETECTION / ALARM SYSTEM TO UNIVERSITY'S DESIGNATED CAMPUS FIRE MARSHAL FOR APPROVAL, AND OBTAIN APPROVAL PRIOR TO BEGINNING CONSTRUCTION ON SUCH. CALL FOR APPOINTMENT 415.502.8042.

PLUMBING FIXTURE SCHEDULE

BY KOHLER, OR EQUAL.

- STAINLESS STEEL SINK TICOR S112 UNDERMOUNT 16 GAUGE STAINLESS STEEL SINGLE BOWL; KRAUSS KBU14, OR EQUAL.
- PEDESTAL SINK (WHITE) AMERICAN STANDARD INC, MODEL 0115.411.020 COLONY 21-INCH WITH 4" CENTER SET HOLES; KOHLER, OR EQUAL.
- GARBAGE DISPOSAL 3/4 HP DISPOSAL KENMORE 22-60572 INSINKERATOR OR EQUAL
- FAUCET (POLISHED CHROME) AMERICAN STANDARD INC, MODEL 4205.104 RELIANT PLUS;
 - FAUCET (4 INCH SPREAD POP UP DRAIN POLISHED CHROME) AMERICAN STANDARD INC, MODEL 2385.400 RELIANT PLUS; KOHLER, OR EQUAL
- SHOWER FAUCET (POLISHED CHROME) AMERICAN STANDARD INC, MODEL T495.501.002 RELIANT PLUS, KOHLER, OR EQUAL. PROVIDE AND INSTALL APPROPRIATE VALVE.
- SHOWER FLOOR: SOLID SURFACE SINGLE THRESHOLD, 34" X 54", TAHITI SAND, SWANSTONE, MODEL \$\$3454, CORIAN, OR EQUAL. SHOWER WALLS KIT: SOLID SURFACE, TAHITI SAND, SWANSTONE, MODEL DK-346072, CORIAN, SHOWER DOOR: CHROME/SILVER WITH OBSCURE GLASS, BASCO - INFINITY 1713NP, FLUENCE BY KOHLER, OR EQUAL.
- SHOWER FLOOR: SOLID SURFACE SINGLE THRESHOLD, 34" X 48", TAHITI SAND, SWANSTONE, MODEL SS3448, CORIAN, OR EQUAL. SHOWER WALLS KIT: SOLID SURFACE, TAHITI SAND, SWANSTONE, MODEL DK-344872, CORIAN,

SHOWER DOOR: CHROME/SILVER WITH OBSCURE GLASS, BASCO - INFINITY 1713NP, FLUENCE

TOILET (WHITE) AMERICAN STANDARD INC, MODEL 2887.216.020 H2OPTION SIPHONIC ELONGATED DUAL FLUSH; TOTO, OR EQUAL.

INDEX OF DRAWINGS

ARCHITECTURAL DRAWINGS

- A1 COVER SHEET
- A 2 DEMOLITION PLANS
- A 3 CONSTRUCTION PLANS
- A 4 REFLECTED CEILING PLANS
- A 5 INTERIOR ELEVATIONS, ENLARGED BATH PLANS
- A 6 PARTITION TYPES, DETAILS A 7 SECTIONS AND EXTERIOR ELEVATIONS

STRUCTURAL DRAWINGS

- S-1.0 GENERAL NOTES
- S-1.1 GENERAL NOTES
- S-2.0 FLOOR 0 AND FLOOR 1 PLANS
- S-2.1 FLOOR 2 & ROOF PLANS S-3.0 CONCRETE DETAILS I
- **S-4.0** FRAMING DETAILS I
- S-4.1 FRAMING DETAILS II
- S-4.2 FRAMING DETAILS III

ELECTRICAL DRAWINGS

- E 1 ELECTRICAL DETAILS AND SCHEDULES
- **EL 1** ELECTRICAL LIGHTING PLANS

EP 1 ELECTRICAL POWER PLANS

- SCOPE OF WORK
- THE SCOPE OF WORK INCLUDES, BUT IS NOT LIMITED TO:
- INTERIOR ASBESTOS REMEDIATION. RENOVATE/UPGRADE INTERIOR SPACES.
- 3. INSTALL NEW FOUNDATION AND FULL SEISMIC UPGRADE.
- 4. INSTALL NEW HVAC AND ELECTRICAL SYSTEMS. INSTALL ALARM AND SPRINKLER SYSTEMS TO COVER ENTIRE BUILDING.
- PAINT EXTERIOR OF BUILDING, INCLUDING LEAD PAINT REMEDIATION.
- 7. REMOVE (E) ROOFING, INSTALL (N) ROOFING.

BUILDING INFORMATION

1486 & 1488 FIFTH AVE LOCATION NUMBER OF STORIES

GROSS AREA 2725 SQ FT YEAR OF CONSTRUCTION CONSTRUCTION TYPE V (EXISTING) R (EXISTING) USER OCCUPANCY GROUP NO (EXISTING) **SPRINKLERS**

PROJECT CONSTRUCTION INFORMATION

PROJECT LOCATION NUMBER OF STORIES NUMBER OF UNITS

FIRE ALARM

PROJECT AREA 2725 SQ FT CONSTRUCTION TYPE USER OCCUPANCY GROUP R-3 FULL SPRINKLERS FIRE ALARM YES

CODE ANALYSIS - OCCUPANCY GROUP R-3

NO (EXISTING)

1486 & 1488 FIFTH AVE - WHOLE BUILDING

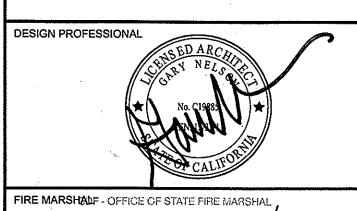
			1
DISABLED ACCESSIBILITY		NO	DRAWI
EXTERIOR WALLS	< 5' FROM P.L. 3' TO < 5' FROM P.L. ≥ 5' FROM P.L.	1-HOUR N.R. IF SPRINKLERED N.R.	СО
OPENINGS	0' TO < 3' FROM P.L. 3' TO < 5" FROM P.L.	NOT PERMITTED UNPROTECTED IF SPRINKLERED, LIMITED TO 25% OF	
·	≥ 5' FROM P.L.	WALL AREA NO LIMIT	PROJE
SEPARATION BET. UNITS	,	1 HOUR	CAAN
SEPARATION BET. UNITS AND GARAGE		1 HOUR	2420
AUTOMATIC SPRINKLER SYSTEM		NFPA 13R PER CBC 903 AND UNIVERSITY STANDARDS	DRAWN
BEARING WALLS & NON-BEARING WALLS		N.R.	JC/J(
			DATE:
ROOF		N.R.	10.28

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any omission or deviation from applicable regula tions. Final approval is subject to field insception

DIVISION OF THE STATE ARCHITECT

IDENTIFICATION STAMP DIVISION OF THE STATE ARCHITECT

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REVISIONS DESCRIPTION 50% CD 08.29.11 90% CD 09.16.11 PLAN CHECK COMMENTS 10.28.11 ISSUE FOR BID 05.11.12

1486 - 88 FIFTH AVENUE HOUSING REMODEL

OVER SHEET

ECT NO: FILE NO: 28.2011