#### STRUCTURAL OBSERVATION **DEPARTMENT OF BUILDING & SAFETY**

GENERAL NOTES FOR STRUCTURAL OBSERVATION

- STRUCTURAL OBSERVATION IS REQUIRED FOR THE STRUCTURAL SYSTEM IN ACCORDANCE WITH MGD 110. STRUCTURAL OBSERVATION IS THE VISUAL OBSERVATION OF THE ELEMENTS AND CONNECTIONS OF THE STRUCTURAL SYSTEM AT SIGNIFICANT CONSTRUCTION STAGES AND THE COMPLETED STRUCTURE FOR GENERAL CONFORMANCE TO THE APPROVED PLANS AND SPECIFICATIONS. STRUCTURAL OBSERVATION DOES NOT WAIVE THE RESPONSIBILITY FOR THE INSPECTIONS REQUIRED OF THE BUILDING INSPECTOR OR THE DEPUTY INSPECTOR.
- 2. THE OWNER SHALL EMPLOY A CIVIL OR STRUCTURAL ENGINEER OR ARCHITECT TO PERFORM THE STRUCTURAL OBSERVATION. THE ENGINEER OR ARCHITECT SHALL BE REGISTERED OR LICENSED IN THE STATE OF CALIFORNIA. THE DEPARTMENT OF BUILDING AND SAFELY RECOMMENDS THE USE OF THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN WHEN THEY ARE INDEPENDENT OF THE CONTRACTOR.
- 3. THE STRUCTURAL OBSERVER SHALL PROVIDE EVIDENCE OF EMPLOYMENT BY THE OWNER. A LETTER FROM THE OWNER OR A COPY OF THE AGREEMENT FOR SERVICES SHALL BE SENT TO THE BUILDING INSPECTOR BEFORE THE FIRST SITE VISIT. THE STRUCTURAL OBSERVER SHALL ALSO INFORM THE OWNER OF THE REQUIREMENTS FOR A PRECONSTRUCTION MEETING AND SHALL PRESIDE OVER THIS MEETING.
- 4. THE OWNER OR OWNER'S REPRESENTATIVE SHALL COORDINATE AND CALL FOR A MEETING BETWEEN THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL DESIGN. STRUCTURAL OBSERVER. CONTRACTOR, AFFECTED SUBCONTRACTORS AND DEPUTY INSPECTORS. THE PURPOSE OF THE MEETING SHALL BE TO IDENTIFY THE MAJOR STRUCTURAL ELEMENTS AND CONNECTIONS THAT AFFECT THE VERTICAL AND LATERAL LOAD SYSYTEMS OF THE STRUCTURE AND TO REVIEW SCHEDULING OF THE REQUIRED OBSERVATIONS. A RECORD OF THE MEETING SHALL BE INCLUDED IN THE FIRST OBSERVATION REPORT SUBMITTED TO THE BUILDING INSPECTOR.
- 5. THE STRUCTURAL OBSERVER SHALL PERFORM SITE VISITS AT THOSE STEPS IN THE PROGRESS OF THE WORK THAT ALLOW FOR CORRECTION OF DEFICIENCIES WITHOUT SUBSTANTIAL EFFORT OR UNCOVERING OF THE WORK INVOLVED. AT A MINIMUM. THE FOLLOWING SIGNIFICANT CONSTRUCTION STAGES REQUIRE A SITE VISIT AND AN OBSERVATION REPORT FROM THE STRUCTURAL OBSERVER:

CONSTRUCTION STAGES

**B. FRAMING** 

C. FRAMING

D. FRAMING

A. FOUNDATION - CAISSON & GRADE BEAM

ELEMENT/CONNECTION TO BE OBSERVED

- REINFORCING SHEAR WALL & NAILING DIAPHRAGM NAILING FRAMING HARDWARE
- 6. THE STRUCTURAL OBSERVER SHALL PREPARE A REPORT ON THE DEPARTMENT FORM B&S 261 FOR EACH SIGNIFICANT STAGE OF CONSTRUCTION OBSERVED. THE ORIGINAL OF THE OBSERVATION REPORT SHALL BE SENT TO THE BUILDING INSPECTOR'S OFFICE AND SHALL BE SIGNED AND SEALED (WET STAMP) BY THE RESPONSIBLE STRUCTURAL OBSERVER. ONE COPY OF THE OBSERVATION REPORT SHALL BE ATTACHED TO THE APPROVED PLANS. THE COPY ATTACHED TO THE PLANS NEED NOT BE SEALED BUT SHALL BE SIGNED BY THE RESPONSIBLE STRUCTURAL OBSERVER OR THEIR DESIGNEE. COPIES OF THE REPORT SHALL ALSO BE GIVEN TO THE OWNER, CONTRACTOR, AND DEPUTY INSPECTOR.
- 7. A FINAL OBSERVATION REPORT MUST BE SUBMITTED AND WHICH SHOWS THAT ALL OBSERVED DEFICIENCIES WERE RESOLVED AND THE STUCTURAL SYSTEM GENERALLY CONFORMS WITH THE APPROVED PLANS AND SPECIFICATIONS. THE DEPARTMENT OF BUILDING AND SAFELY WILL NOT ACCEPT THE STRUCTURAL WORK WITHOUT THIS FINAL OBSERVATION REPORT AND THE CORRECTION OF THE SPECIFIC DEFICIENCIES NOTED DURING NORMAL BUILDING AND DEPUTY INSPECTIONS.
- THE STRUCTURAL OBSERVER SHALL SEND THE ORIGINAL OBSERVATION REPORT TO THE FOLLOWING **INSPECTION OFFICE:**

**INSPECTION GROUP NAME** 

STREET ADDRESS

COMMUNITY OF LA, CA, ZIP CODE

WHEN THE OWNER ELECTS TO CHANGE THE STRUCTURAL OBSERVER OF RECORD. THE OWNER SHALL: A. NOTIFY THE BUILDING INSPECTOR IN WRITING BEFORE THE NEXT INSPECTION. **B. CALL AN ADDITIONAL PRECONSTRUCTION MEETING** 

C. FURNISH THE REPLACEMENT STRUCTURAL OBSERVER WITH A COPY OF ALL PREVIOUS REPORTS.

THE REPLACEMENT STRUCTURAL OBERVER SHALL APPROVE THE CORRECTION OF THE ORIGINAL OBSERVED DEFICIENCIES UNLESS OTHERWISE APPROVE BY PLAN CHECK SUPERVISION. THE POLICY OF THE DEPARTMENT SHALL BE TO CORRECT ANY PROPERLY NOTED DIFICIENCIES WITHOUT CONSIDERATION OF THEIR SOURCE.

- 10. THE ENGINEER OR ARCHITECT OF RECORD SHALL DEVELOP ALL CHANGES RELATING TO THE STRUCTURAL SYSTEMS. THE BUILDING DEPARTMENT SHALL REVIEW AND APPROVE ALL CHANGES TO APPROVE PLAN SPECIFICATION.
- 11. THE OWNER SHALL EMPLOY THE ENGINEER OR ARCHITECT REGISTERED/LISENSED IN STATE OF CALIFORNIA WHO IS RESPONSIBLE FOR THE STRUCTURAL DESIGN TO DO STRUCTURAL OBSERVATION.
- 12. NAME OF STRUCTURAL OBSERVER: NAME OF STRUCTURAL DESIGNER :
- 13. THE ENGINEER OR ARCHITECT RESPONSIBLE FOR THE STRUCTURAL OBSERVATION, THE CONTRACTOR, AND APPROPIATE SUBCONTRACTOR SHALL HOLD A PRE-CONSTRUCTION MEETING TO REVIEW THE DETAILS OF THE STRUCTURAL SYSTEM TO BE STRUCTURALLY OBSERVED.

## **BLOCK MASONRY**

- 1. REINFORCED BLOCK MASONRY: ASSUMED DESIGN STRENGTH F'm = 1500 PSI. ALL MASONRY CONSTRUCTION PER UNIFORM BUILDING CODE, SECTION 24.
- 2. UNITS SHALL BE NORMAL WEIGHT (OR LIGHTER) CONCRETE BLOCK, GRADE N CONFORMING TO A.S.T.M. C90 WITH A MINIMUM COMPRESSIVE STRENGTH OF 2,000 PSI.
- 3. GROUT SHALL BE OF FLUID CONSISTENCY, GROUT MIX SHALL BE (BY VOLUME) 1 PART CEMENT, THREE PARTS SAND (FINE GROUT) AND MAY CONTAIN AN ADDITIONAL 2 PARTS PEA GRAVEL IF SPACES ARE 4 INCHES OR MORE IN EVERY DIRECTION (COARSE GROUT) F'c = 2,000 PSI AT 28 DAYS.
- 4. MORTAR SHALL BE TYPE S, (BY VOLUME) 1 PART PORTLAND CEMENT, 3 1/2 PARTS SAND AND 1/4 TO 1/2 PARTS LIME PUTTY OR HYDRATED LIME F'c = 2,000 PSI AT 28 DAYS.
- 5. REINFORCING SHALL HAVE A MINIMUM LAP OF 40 BARS DIAMETER OR 24" WHICH EVER IS LARGER.
- 6. ALL BLOCK WALLS TO BE RUNNING BOND UNLESS NOTED OTHERWISE.
- 7. BRICK SHALL CONFORM TO STANDARD SPECIFICATION FOR BUILDING BRICK A.S.T.M. C62, BRICK GROUTING PER T21-2413.
- 8. MORTAR JOINTS SHALL BE A MIN. OF 3/8" AND SHALL BE FULL HEAD AND BED.
- 9. WHEN GROUTING IS STOPPED FOR ONE HOUR OR LONGER, HORIZONTAL CONSTRUCTION JOINTS SHALL BE FORMED BY STOPPING THE POUR OF GROUT 1 1/2" BELOW THE TOP OF THE UPPERMOST UNIT. 10. PLASTIC CEMENT SHALL NOT BE USED. (U.N.O.)

# EPOXY DRILLED ANCHOR BOLT

- CITY BUILDING CODE. 3) THE VALUES SHOWN IN TABLES 6 AND 8 ARE FOR ANCHORS INSTALLED IN STONE AGGREGATE CONCRETE HAVING A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI AND 4000 PSI.
- 4) EPOXY TYPE ANCHORS SHALL NOT BE INSTALLED INTO OR USED TO SUPPORT ANY FIRE-RESSISTIVE CONSTRUCTION.
- 5) THE TABULATED VALUES MUST BE REDUCED BY LOAD FACTORS, AS RECOMMENDED BY THE MANUFACTURER, WHEN ANCHORS ARE INSTALLED IN LOCATIONS WHERE THE CONCRETE TEMPERATURES MAY EXCEED 110 DEGREES F. ATTACHED IS A TEMPERATURE SENSITIVITY CURVE TO REDUCE THE ALLOWABLE STRESS WITH INCREASE IN TEMPERATURE (FIGURE 3). 6) THE VALUES IN TABLE 6 AND 8 MAY BE INCREASED ONE-THIRD WHEN CONSIDERING WIND
- OR SEISMIC LOADS. EXCEPT WHEN ALLOWABLE LOADS ARE GOVERNED BY BOND STRENGTH, THEN NO INCREASE SHALL BE PERMITTED FOR WIND OR SEISMIC LOADS. 7) BEFORE INSTALLATION OF THE THREADED ROD OR REINFORCING BAR, CONCRETE OR GROUT SHALL
- HAVE REACHED ITS DESIGN STRENGTH. 8) INSTALLATION OF THE THREADED ROD OR REINFORCING BAR SHALL BE IN ACCORDANCE WITH THE
- MANUFACTURER'S INSTRUCTIONS EXCEPT WHERE SPECIFIED OTHERWISE HEREIN. A COPY OF THE INSTALLATION INSTRUCTION SHALL BE PROVIDED AT EACH JOBSITE. 9) THE TABULATED VALUES ARE FOR THREADED RODS OF A307 QUALITY OR BETTER AND DEFORMED
- REINFORCING BARS OF GRADE 60 OR BETTER. 10) THE TREADED ROD OR REINFORCING BAR SHALL NOT BE INSTALLED IN OVERHEAD APPLICATIONS SUCH AS IN THE SOFFIT OF A BEAM OR ARCH OR SIMILAR LOCATIONS.
- 11) THESE ARE NOT APPROVED FOR USE WHERE SUPPORT WILL BE SUBJECTED TO VIBRATORY OR IMPACT LOADS, SUCH AS SUPPORTS FOR RECIPROCATING ENGINES OR CRANE RAILS. 12) SPECIAL INSPECTION IS REQUIRED BY REINFORCED CONCRETE, STEEL, OR REINFORCED MASONRY
- DEPUTY INSPECTOR WITH CONTROLLED ACTIVITY IN DRILLED IN ANCHOR BOLTS.

SHEAR WALLS NOTES: BUILDING CODE.

4-All bolt holes shall be drilled 1/32 to 1/16" oversized.

## Simpson Strong-Wall Notes:

- Strong-wall wood shearwall is manufactured and trademarked by "Simpson Strong-Tie Company Inc."Home Office: 5956 W. Las Positas Blvd., Pleasanton, CA 94588 Tel: (800) 999-5099, Fax: (925) 847-1597.
- "Simpson Strong-Tie Company Inc." is an ISO 9001-2008 registered company. 2. Fabrication of Strong-Wall Panel shall be in a shop of a licensed fabricator, in accordance with the
- Manufacturing Standards submitted to the governing agency. The contractor shall verify all dimensions, conditions, elevations, etc. prior to installation of any components
- for the Strong-Wall system. If any discrepancies are found, they shall be brought to the attention of the designer for clarification prior to construction. 4. Installation of the product shall be done in conformance to Simpson Strong-Wall details, published installation
- instruction, and detailed shown on plan sheets. 5. All hardware called out is Simpson Strong-Tie.
- 6. Panels located in exterior walls shall be covered with anapproved weather-resistance exterior wall enveloped
- complying with applicable local building code.
- 7. Structural Observation shall be required for the construction of all Portal Frames. 8. All products involving welding shall be fabricated in the shop of licensed fabricator.

Shissing2or invalid reference

- SIMPSON EPOXY CONDITIONS OF APPROVAL PER CITY OF L.A. RESEARCH REPORT NO 25279: SIMPSON STRONG-TIE SET, SET 1.7 AND SET-PAC ADHESIVE ARE APPROVED FOR INSTALLATION IN STONE AGGREGATE CONCRETE OR MASONRY, SUBJECT TO THE FOLLOWING CONDITIONS:
- 1) THE VALUES SHOWN IN THIS REPORT SHALL NOT BE USED IN REAIR, RETROFIT AND NEW CONSTRUCTION OF CONCRETE TILT-UP OR MASONRY WALL ANCHORAGE (IN TENSION) FOR THE
- CONNECTION WITH THE HORIZONTAL WOOD DIAPHRAGM. 2) A 25% REDUCTION IN ALL ALLOWABLE LOADS SPECIFIED IN THIS RESEARCH REPORT SHALL BE TAKEN IN HOLD-DOWN DEVICES AS REQUIRED BY SECTION 91.2314.5.6 OF THE 1996 LOS ANGELES

- 1-Hold-down connector bolts into wood framing require approved plate washers; and hold-downs shall be tightened just prior to covering the wall framing. Connector bolts into wood framing require steel plate washers IN ACCORDANCE WITH TABLE 2305.5 OF THE LA
- 2-Roof diaphragm nailing is to be inspected befor covering. Face grain of plywood shall be perpendicular to supports. Floor shall have tongue and groove or blocked panel edges.
- PLYWOOD SPANS SHALL CONFORM WITH TABLE 2304.7
- 3-All diaphragm and shear wall nailling shall utilize common nails or galvanized box.
- 5-Hold-down hardware must be secured in place prior to foundationinspection.

### **ADDITIONAL NOTES**

- 1. NUTS OF THE PRIMARY AND SECONDARY ANCHORS FASTERS SHALL BE WRENCH TIG TO INSPECTION AND COVERING
- 2. POWER-DRIVEN FASTENERS SHALL NOT BE USED TO ANCHOR SILL PLATES EXCEPT NONBEARING WALLS NOT DESIGNED AS SHEAR WALLS.
- 3. EXTERIOR ANCHOR BOLTS AND BASES SHALL BE GALVANIZED AND EACH ANCHOR B HAVE AT LEAST TWO GALVANIZED NUTS ABOVE THE BASE PLATE.
- THE TOP OF EXTERIOR PEDESTALS MUST BE SLOPED FOR POSITIVE DRAINAGE. 5. ALL MAIN FOOTING AND GRADE BEAM REINFORCEMENT STEEL SHALL BE BENT INTO FOOTING AND FULLY DEVELOPED AROUND EACH CORNER AND INTERSECTION.
- 6. CONTINOUS INSPECTION BY LOS ANGELES CITY LICENSED DEPUTY INSPECTOR IS R STRUCTURAL CONNECTIONS, FOOTINGS, GRADE BEAM, AND RETAINING WALL DURIN 7. STRUCTURAL OBSERVATION BY THE ENGINEER OR ARCHITECT OF RECORD IS REQU

ACCORDANCE WITH L.A. INFORMATION BULLETIN P/BC 2001-24.

### NOTES :

- 1. CONTRACTORS RESPONSIBLE FOR THE CONSTRUCTION OF A WIND OR SEISMIC I RESISTING SYSTEM/COMPONENT LISTED IN THE "STATEMENT OF SPECIAL INSP SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE LADBS INSPEC AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON SUCH SYSTEM O COMPONENT PER SEC 1706.1
- 2. CONTINUOUS SPECIAL INSPECTION BY A REGISTERED DEPUTY INSPECTOR IS REP FOR FIELD WELDING, CONCRETE STRENGTH F'C> 2500 PSI, HIGH STRENGTH BOLT SPRAYED-ON FIREPROOFING, ENGINEERED MASONRY, HIGH-LIFT GROUTING, PRE-STRESSED CONCRETE, HIGH LOAD DIAPHRAGMS AND SPECIAL MOMENT-RES CONCRETE FRAMES. (1704 & CHAPTERS 19, 21, AND 22)
- 3. FOUNDATION SILLS SHALL BE NATURALLY DURABLE OR PRESERVATIVE-TREATED (2304.11.2.4)
- 4. FIELD W ELDING TO BE DONE BY WELDERS CERTIFIED BY THE LADBS FOR (STRUC STEEL)(REINFORCING STEEL)(LIGHT GAUGE STEEL). CONTINUOUS INSPECTION BY A DEPUTY INSPECTOR IS REQUIRED.
- 5. SHOP WELDS MUST BE PERFORMED IN A LADBS LICENCED FABRICATOR'S SHOP.
- 6. LADBS LICENSED FABRICATOR IS REQUIRED FOR (TRUSSES), (STRUCTURAL STEE 7. GLUE LAM BEAMS MUST BE FABRICATED IN A LADBS LICENCED SHOP. IDENTIFY G
- SYMBOL AND LAMINATION SPECIES PER T 5-A, 2005 NDS SUPP. 8. PROVIDE LEAD HOLE 40%-70% OF THREADED SHANK DIA. AND FULL DIA. FOR SMC SHANK PORTION." 2005NDS
- 9. PERIODIC SPECIAL INSPECTION IS REQUIRED FOR WOOD SHEAR WALLS, SHEAR F AND DIAPHRAGMS, INCLUDING NAILING, BOLTING, ANCHORING, AND OTHER FAST TO COMPONENTS OF THE SEISMIC FORCE RESISTING SYSTEM. SPECIAL INSPECT DEPUTY INSPECTOR IS REQUIRED WHERE THE FASTENER SPACING OF THE SHEA 4 INCHES ON CENTER OR LESS. (1707.3

9. See ICC-ES ESR-2652 or City of Los Angeles RR25730 as applicable for additional information.

SHEAR WALL SCHEDULE										
TYPE	MATERIAL	PANEL NAILING		MIN. POST	SHEAR ANCHORAGE				CAPACITY	
		PERIMETER	FIELD	© END OF SHEAR WALL PANEL	BLOCKING TO PLATE CONNECTION	ANCHOR BOLTS SILL PLATE FOUND CONNECT.F'c=2500 F	All Other SI Sill Anchors	ANCHOR BOLT EMB.	LBS / FT	
	1/2" STRUCTURAL 1 PLYWOOD OR OSB 8d COMMON NAILS	6" O.C.	12" O.C.	4x4 STUDS	A35 @ 16" O.C.	5/8" @ 48" O.C.	3/8"øx5" LAGES @ 24	"o.c. 9"	280	
2	1/2" STRUCTURAL 1 PLYWOOD OR OSB 10d COMMON NAILS	4" O.C.	12" O.C.	4x4 STUDS	A35 @ 12" O.C.	5/8" @ 32" O.C.	3/8"øx6" LAGES @ 18	" o.c. 9"	430	
3	1/2" STRUCTURAL 1 PLYWOOD OR OSB 10d COMMON NAILS	3" O.C.	12" O.C.	4x4 STUDS	A35 @ 8" O.C.	5/8"ø @ 24" O.C.	3/8"øx6" LAGS @ 12"	o.c. 9"	665	

THE FOLLOWING APPLIES TO WALLS WITH A SHEAR CAPACITY OF OVER 350 BS./FT.: - 3X FOUNDATION SILL PLATES (OR DOUBLE 2X FOR EXISTING)

- 3X STUDS AND BLOCKS BETWEEN ADJACENT PANELS

- 1/2 IN. EDGE DISTANCE FOR PLYWOOD BOUNDARY NAILING
- -SQUARE PLATE WASHERS SHALL BE USED WITH ALL ANCHOR
- BOLTS. FOR 5/8" BOLTS USE 3"X3"X1/4".

-ALL PANEL JOINT AND SILL PLATE NAILING SHALL BE STAGGERED

	DESIGN CR	ITERIA		AND SHALL REMAIN THE PROPERTY OF <b>GM MODERN</b> <b>DESIGN</b> AND <u>CANNOT</u> BE COPIED, DUPLICATED OR EXPLOITED IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION OF THE DESIGNER.				
	1. BUILDING CODE MINIMUM REQUIRE	: ALL WORK SHA MENTS OF	ALL CONFORM TO THE					
GHTEN PRIOR	THE LATEST EDIT BUILDING OFFICI	ION OF THE 2010						
AT INTERIOR	2. VERTICAL LOAD	S - (UNLESS OTH						
OLTS SHALL	DRAWINGS)							
THE INTERSECTING	ROOF	LIVE LOAD 20 PSF	DEAD LOAD 18 PSF	DESIGN				
EQUIRED FOR ALL NG INSTALLATION. JIRED IN	ED FOR ALL TALLATION. N 3. LATERAL LOADS WIND 85 MPH BASIC WIND, EXPOSURE C WIND IMPORTANCE FACTOR = 1 APPLICABLE INTERNAL PRESSURE COEFFICIENT = 0.18 COMPONENTS AND CLADDING DESIGN WIND PRESSURE = 13.6 PSF							
FORCE PECTION" CTORS R QUIRED	Seismic importanc Mapped spectral re Site class = D Spectral response Seismic design categ	GREG MISAKYAN 6277 VAN NUYS BLVD SUITE 118 VAN NUYS, CA. 91401 Tel. (818) 374 -1300 Fax (818) 374 -1305 E-Mail: GMmoderndesign@vahoo.com						
TING, SISTING	Response modifica Design base shear Seismic response	6.5 eight of building= 124 K 210 Redundancy						
) WOOD.	fator=1.3			Owner: 6940 Longridge Ave				
TORAL				North Hollywood, CA 31603				
EL) GRADE	BASIC SEISM WOOD SHEA	NG SYSTEM: RAMES						
ООТН				Droject Nome				
PANELS, ENING FION BY A ATHING IS	ITEM ST6236 MST, CI A35 LTP4 ECC, C0 LUS Ha HDU	LAF 257 MST 257 257 257 C 257 nger 2580 257	RR# 713 713 119 716 14 07 20	NEW S.F.D. AND NEW GARAGE				
	HARDY	FRAME 2575	59	Project Address: 6940 Longridge Ave North Hollywood, CA 91605				

Scale: 1/4"=1'-0"

THE DRAWINGS AND SPECIFICATIONS AND IDEAS, DESIGN REPRESENTED THERBY ARE

DRAWN BY:	
DRAWN BY:	GREG MISAKYAN
JOB NUMBER:	
	000-2018
PRINT DATE:	
	6 / 18 / 2018
SHEET NO:	

