

ABBREVIATIONS			
INSUL	INSULATION	AB	ANCHOR BOLT
INT	INTERIOR	ABV	ABOVE
JNT	JOINT	ADH	ADHESIVE
JST	JOIST	ALT	ALTERNATE
LOCN	LOCATION	ARCH	ARCHITECTURAL
LSL	LAMINATED STRAND LUMBER	AWS	AMERICAN WELDING SOCIETY
LVL	LAMINATED VENEER LUMBER	@	AT/ON CENTER
LWC	LIGHT WEIGHT CONCRETE	BLW	BELOW
MATL	MATERIAL	BLDG	BUILDING
MAX	MAXIMUM	BLK	BLOCK
MECH	MECHANICAL	BLKG	BLOCKING
MFS	MANUFACTURER	BM	BEAM
MIN	MINIMUM	B.O.	BOTTOM OF
(N)	NEW	BRG	BEARING
NA	NOT APPLICABLE	BOTT	BOTTOM
N.I.C.	NOT IN CONTRACT	BTWN	BETWEEN
NO. #	NUMBER	C.I.P.	CAST IN PLACE
NS	NEAR SIDE	CL.C	CENTERLINE
N.T.S.	NOT TO SCALE	CLG	CEILING
NWC	NORMAL WEIGHT CONCRETE	CLR	CLEAR
O/	OVER	COL	COLUMN
OC	ON CENTER	CONC	CONCRETE
OH	OPPOSITE HAND	CONN	CONNECTION
OPP	OPPOSITE	CONSTR	CONSTRUCTION
OPNG	OPENING	CONT	CONTINUOUS
OSB	ORIENTED STRAND BOARD	CP	COMPLETE PENETRATION
OWSJ	OPEN WEB STEEL JOISTS	CTR	CENTER
PDF	POWER DRIVEN FASTENER	DBL	DOUBLE
PERP	PERPENDICULAR	DET	DETAIL
PERIM	PERIMETER	DF	DOUGLAS FIR
PL. &	PLATE	DF-L	DOUGLAS FIR-LARCH
PLWD	PLYWOOD	DIA	DIAMETER
PSL	PARALLEL STRAND LUMBER	DIAG	DIAGONAL
PT	POST TENSIONED OR PRESSURE TREATED	DIM	DIMENSION
REF	REFERENCE	DWG	DRAWING
REINF	REINFORCING	(E)	EXISTING
REQ'D	REQUIRED	E	EACH
RET	RETAINING	EAC	EACH FACE
RO	ROUGH OPENING	ELEV	ELEVATION
ROWD	REDWOOD	EMBED	EMBEDMENT
S.A.D.	SEE ARCHITECTURAL DRAWINGS	ENGAIL	ENGAIL
SCHED	SCHEDULE	ENT	ENTRANCE
SEL STRUCT	SELECT STRUCTURAL	EAP	EAVE PARAPET
SFRS	SEISMIC FORCE RESISTING SYSTEM	EXP	EXPANSION
SHTG	SHEATHING	EXT	EXTERIOR
SM	SMILAR	FNDN	FOUNDATION
S.O.G.	SLAB ON GRADE	FIN FLR, F.F.	FINISHED FLOOR
SPEC	SPECIFICATIONS	F.L.R.	FLOOR
SS	STAINLESS STEEL	F.O.	FACE OF
STD	STANDARD	FRMG	FRAMING
T & B	TOP AND BOTTOM	FS	FACE OF
T & G	TONGUE AND GROOVE	FT	FOOT
TN	TOE NAIL	FOOTING	FOOTING
T.O.	TOP OF	GAGE	GAGE
U.O.N.	UNLESS OTHERWISE NOTED	GALV	GALVANIZED
VERT	VERTICAL	GR	GRADE
WP	WATER PROOFING OR WORK POINT	CL	GLUE
WT	WEIGHT	GYP BD	GYPSEUM BOARD
WWF	WELDED WIRE FABRIC	HDC	HOT DIPPED GALVANIZED
W/	WITH	HDR	HEADER
XS	EXTRA STRONG	HGR	HANGER
XXS	DOUBLE-EXTRA STRONG	HK	HOOK
		HORIZ	HORIZONTAL
		HSB	HIGH STRENGTH BOLT
		HSS	HOLLOW STRUCTURAL STEEL
		INFO	INFORMATION

NOTICE

SPECIAL INSPECTION REQUIREMENTS

STRUCTURAL OBSERVATION REQUIREMENTS

SHEET LIST	
S000	SHEET LIST, SPECIAL INSPECTION FORM AND ABBREVIATIONS
S001	GENERAL NOTES
S003	TYPICAL DETAILS
S201	FOUNDATION/BASEMENT & FIRST FLOOR FRAMING PLANS
S202	SECOND & THIRD FLOOR FRAMING PLANS
S203	FOURTH FLOOR & ROOF FRAMING PLANS
S801	DETAILS

Architect

Structural Engineer

SE

Project Title

Drawing Title
Sheet List, Special Inspection & Abbrev.
Scale AS SHOWN
Drawn By SV
Job Number 15048
Drawing Number

S000

PARALLAM PSL LUMBER (PSL)

PARALLAM PSL LUMBER SHALL BE 2.0E, CONFORMING TO ICC-ES RESEARCH REPORT NO. ESR-1387, OR EQUAL AND SHALL HAVE DESIGN VALUES EQUAL TO OR EXCEEDING THE FOLLOWING:

BENDING (Fb): 2900 PSI
COMPRESSION PARALLEL TO THE GRAIN (Fc PARALLEL): 2900 PSI
MODULUS OF ELASTICITY (E): 2,000,000 PSI
HORIZONTAL SHEAR: 290 PSI

MICROLAM LVL LUMBER (LVL)

MICROLAM LVL LUMBER SHALL BE 1.8E, CONFORMING TO ICC-ES RESEARCH REPORT NO. ESR-1387, OR EQUAL AND SHALL HAVE DESIGN VALUES EQUAL TO OR EXCEEDING THE FOLLOWING:

BENDING (Fb): 2600 PSI
COMPRESSION PARALLEL TO THE GRAIN (Fc PARALLEL): 2410 PSI
MODULUS OF ELASTICITY (E): 1,800,000 PSI
HORIZONTAL SHEAR: 265 PSI

FASTENERS

FOR SCHEDULE OF MINIMUM NAILING SEE CALIFORNIA BUILDING CODE SECTION 1904.9.1. NAILING SHALL BE WITH COMMON WIRE NAILS UNLESS NOTED OTHERWISE. CONTRACTOR SHALL SUBMIT FOR APPROVAL A DESCRIPTION OF NAIL GAGE, LENGTH, HEAD TYPE AND COATING (IF ANY) FOR ANY PROPOSED SUBSTITUTION FOR NAILS SHOWN ON THE STRUCTURAL DRAWINGS. BOLTS AND LAG SCREWS BEARING ON WOOD SHALL HAVE WASHERS.

METAL FRAMING ANCHORS SHALL BE MANUFACTURED BY SIMPSON COMPANY OR EQUAL JOIST HANGERS SHALL BE "LP" SERIES U.N.O. ON DRAWINGS. BOLTS IN CONNECTIONS SHALL BE RETIGHTENED JUST PRIOR TO CLOSING OF THE WALL AND/OR FLOOR.

FASTENERS FOR INTERIOR APPLICATIONS PENETRATING PRESSURE-TREATED LUMBER SHALL BE HOT DIPPED ZINC-COATING GALVANIZED WITH A MINIMUM COATING OF 1.85 OZ/SQ FT. FASTENERS EXPOSED TO WEATHER, INCLUDING EXTERIOR APPLICATIONS OF PRESSURE-TREATED LUMBER, SHALL USE STAINLESS STEEL FASTENERS. FASTENERS EXPOSED TO WEATHER FOR ARCHITECTURAL FEATURES MAY ALSO BE BRASS, BRONZE OR COPPER.

SILLS OR PLATES SHALL BE BOLTED TO CONCRETE WITH 5/8" DIAMETER BOLTS WITH 3X3X1/4" WASHERS, EMBEDDED 7" MINIMUM AT 4' MINIMUM ON CENTER, U.O.N.

ROOF SHEATHING

ROOF SHEATHING SHALL BE 5/8" APA RATED SHEATHING, EXPOSURE 1, SPAN RATING 40/20. LAY FACE GRAIN ACROSS RAFTERS, STAGGER SHEETS. PROVIDE 1/8" SPACING AT PANEL ENDS AND EDGES. NAIL SHEET EDGES WITH 10d@8", INTERMEDIATE MEMBERS 10d@12". SEE STRUCTURAL DRAWINGS FOR OTHER DETAILED OR NOTED SHEATHING NAILING. NO UNBLOCKED PANELS LESS THAN 12" WIDE SHALL BE USED.

FLOOR SHEATHING

FLOOR SHEATHING SHALL BE 1/2" OR 5/8" APA RATED STURDIO FLOORING, EXPOSURE 1, SPAN RATING 40/48/24. LAY FACE GRAIN ACROSS JOISTS, STAGGER SHEETS. PROVIDE 1/8" SPACING AT PANEL ENDS AND EDGES. ATTACH SHEATHING TO JOISTS AND BLOCKING WITH ADHESIVE IN ACCORDANCE WITH APA GLUED FLOOR SYSTEM. NAIL SHEET EDGES WITH 10d@8", INTERMEDIATE JOISTS 10d@12". SEE STRUCTURAL DRAWINGS FOR OTHER DETAILED OR NOTED FLOOR SHEATHING NAILING.

DECK SHEATHING

DECK SHEATHING SHALL BE 3/4" APA RATED SHEATHING, T&G, EXPOSURE 1, SPAN RATING 48/24. LAY FACE GRAIN ACROSS JOISTS, STAGGER SHEETS. PROVIDE 1/8" SPACING AT PANEL ENDS AND EDGES. ATTACH PLYWOOD TO JOISTS AND BLOCKING WITH ADHESIVE IN ACCORDANCE WITH APA GLUED FLOOR SYSTEM. NAIL SHEET EDGES 10d@8", INTERMEDIATE JOISTS 10d@12". SEE STRUCTURAL DRAWINGS FOR OTHER DETAILED OR NOTED PLYWOOD NAILING.

WALL SHEATHING

WALL SHEATHING AT SHEAR WALLS, INDICATED ON DRAWINGS WITH APPROPRIATE SYMBOLS, SHALL CONFORM TO THE SHEAR WALL SCHEDULE. AT EXTERIOR WALLS THAT ARE NOT SHEAR WALLS, SHEATHING SHALL BE 1 1/2" OR 1 3/4" APA RATED EXPOSURE 1, NAIL SHEET EDGES WITH 10d@8", AND INTERMEDIATE STUDS WITH 10d@12".

LIVE LOADS

DESIGN LIVE LOADS PER CBC TABLE 1607.1 AND AS FOLLOWS. LIVE LOADS MAY BE REDUCED IN ACCORDANCE WITH CBC SECTION 1607.9.

ROOF LIVE 20 PSF
FLOOR LIVE 40 PSF

EARTHQUAKE DESIGN DATA

SEISMIC FORCE-RESISTING SYSTEM:
Ie 1.0
Ss 1.5
S1 0.739
SITE CLASS D
Sds 1.050
Sd1 1.109
SEISMIC DESIGN CATEGORY D

ANALYSIS PROCEDURE ABC 7-10 CHAPTER 27, DIRECTIONAL PROCEDURE
REDUNDANCY FACTOR 1.0

DESIGN WIND SPEED, V 110 MPH
EXPOSURE B (URBAN, CLOSELY SPACED CONSTRUCTION)

MAIN WIND-FORCE RESISTING SYSTEMS

ANALYSIS PROCEDURE ABC 7-10 CHAPTER 27, DIRECTIONAL PROCEDURE

COMPONENTS & CLADDING

ANALYSIS PROCEDURE ABC 7-10 CHAPTER 30

WATERPROOFING

WHEN STRUCTURAL DETAILS REQUIRE ANY WATERPROOFING OR DRAINAGE ITEMS, THEY ARE TO BE SHOWN ON THE DRAWINGS. REFER ONLY TO ARCHITECTURAL DRAWINGS FOR THE SPECIFICATIONS AND REQUIREMENTS FOR WATERPROOFING AND VENTILATION SYSTEMS.

ROUGH CARPENTRY

LEADS AND SUBMITTALS

DOCUMENTATION FOR THE FOLLOWING SHALL BE SUBMITTED TO THE ARCHITECT AND/OR CONTRACTOR:

FRAMING MEMBERS USING ADHESIVES SHALL HAVE A STATEMENT OF VOC CONTENT SUBMITTED

FOR COMPOSITE-WOOD PRODUCTS, PROVIDE DOCUMENTATION INDICATING THAT PRODUCT DOES NOT CONTAIN FORMALDEHYDE.

USE FSC-CERTIFIED WOOD AND SUBMIT DOCUMENTATION.

MOISTURE CONTENT PROTECTION

MOISTURE CONTENT SHALL MEET THE FOLLOWING LIMITS: "DORY" FOR VERTICAL FRAMING (1" MAXIMUM DIMENSIONS) SHALL NOT BE INSTALLED ON DIMENSIONAL LUMBER FRAMING UNLESS MOISTURE CONTENT IS 12% OR LESS.

MATERIALS SHALL BE PROPERLY STORED ON THE JOB SITE. MATERIALS SHALL BE STORED OFF OF THE GROUND, AND PROTECTED FROM EXPOSURE TO THE ELEMENTS.

PRESERVATIVE TREATMENT

FRAMING MEMBERS EXPOSED TO WEATHER OR IN CONTACT WITH CONCRETE, BUT NOT IN CONTACT WITH THE GROUND SHALL BE PRESSURE TREATED IN ACCORDANCE WITH AWPFA STANDARD U1 & T1. USE CATEGORY UC3B. FIELD CUTS AND HOLES SHALL BE FIELD TREATED IN ACCORDANCE WITH THE AWPFA M-4.

DIMENSIONAL LUMBER AND TIMBER

DIMENSIONAL LUMBER AND TIMBER SHALL CONFORM TO THE FOLLOWING WCLB MINIMUM GRADES AND SHALL BE DOUGLAS FIR, UNLESS OTHERWISE NOTED.

JOISTS (2"x4", 3" AND WIDER) NO. 2
HEADERS (4" THICK, 5" AND WIDER) NO. 1
BEAMS (6" THICK, 10" AND WIDER) NO. 1
POSTS (6" THICK, 6'-8" WIDE) NO. 1
POSTS (4X4) NO. 1
MUD SILLS (3X) NO. 1, PRESSURE TREATED (DO NOT USE HEM-FIR)
STUDS (2X, 3X) STUD
TOP AND BOTTOM PLATES STUD

NO SUBSTITUTIONS SHALL BE MADE WITHOUT PRIOR APPROVAL.

GENERAL NOTES

SCOPE

COORDINATION

CONTRACTOR MEANS AND METHODS

EXISTING CONDITIONS

CUTTING AND PATCHING

CONSTRUCTION PHASE SITE VISITS

SPECIAL INSPECTION AND TESTING

STRUCTURAL OBSERVATION

SUBMITTALS

CODE AND STANDARDS

Architect

Structural Engineer

SE

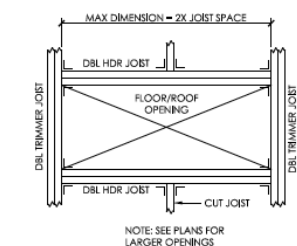
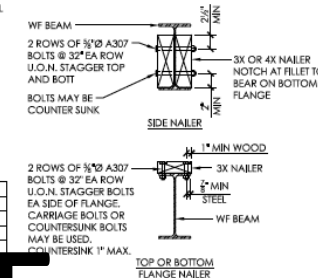
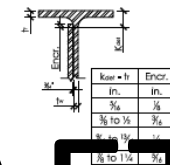
Project Title

Drawing Title
General Notes
Scale AS SHOWN
Drawn By SV
Drawing Number

S001

BEAM DEPTH (D)	PLATE THICKNESS (t)	MIN DEPTH (INCHES)	A325-N BOLTS (INCHES)	WELD (INCHES)	CONVENTIONAL CONFIGURATION CAPACITY (KIPS)				CENTER OF HOLE TO EDGE OF PLATE & BEAM WEB	
					ASD	LRFD	Leh	Lev		
WBX	3/8	5.5	2-1/2"	1/4	21.2	31.8	1 1/4"	1 1/2"		
W10X	3/8	5.5	2-1/2"	1/4	21.2	31.8	1 1/4"	1 1/2"		
W12X	3/8	9	2-1/2"	1/4	31.8	47.7	1 1/4"	1 1/2"		
W14X	3/8	9	2-1/2"	1/4	31.8	47.7	1 1/4"	1 1/2"		
W16X	3/8	12	2-1/2"	1/4	42.4	63.6	1 1/4"	1 1/2"		
W18X	3/8	15	2-1/2"	1/4	53.0	79.5	1 1/4"	1 1/2"		
W21X	3/8	18	2-1/2"	1/4	63.6	95.4	1 1/4"	1 1/2"		
W24X	3/8	21	2-1/2"	1/4	74.2	111.0	1 1/4"	1 1/2"		
W27X	3/8	24	2-1/2"	1/4	84.8	127.0	1 1/4"	1 1/2"		

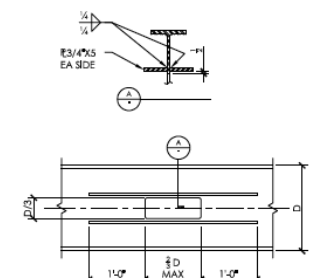
- NOTES:
 (1) AISI 13TH EDITION, A36 PLATE
 (2) BOLT HOLES MAY BE STD OR SSL
 (3) CONVENTIONAL
 CONFIGURATION $\phi \leq 3"$
 (4) EXTENDED CONFIGURATION
 $3" < \phi \leq 6"$
 (5) FILLET ENCROACHMENT:



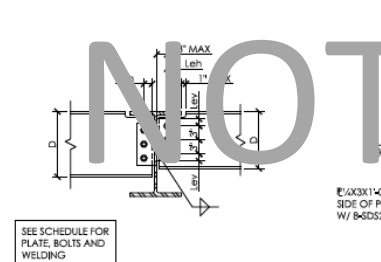
9 SINGLE PLATE BEAM CONNECTION SCHEDULE
 S003 3/4" BOLTS

5 WF STEEL BEAM NAILER
 S003

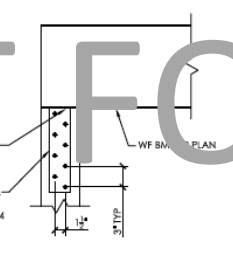
3 FRAMING AT OPENING
 S003



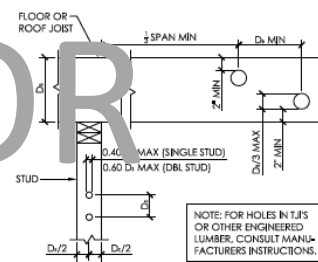
11 BEAM PENETRATION
 S003



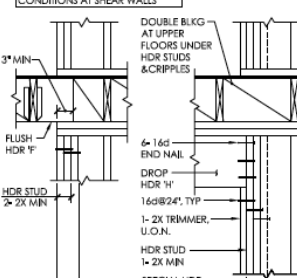
8 SINGLE PLATE BEAM CONNECTION SCHEDULE
 S003



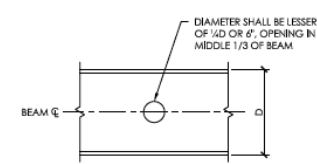
10 STEEL BEAM TO WOOD POST
 S003



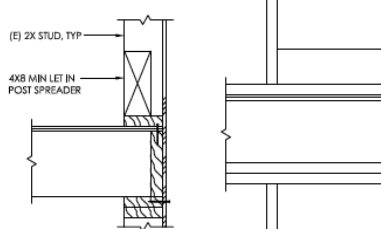
4 HOLES IN SAWN LUMBER
 S003



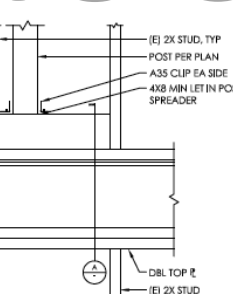
1 WOOD HEADER FRAMING
 S003



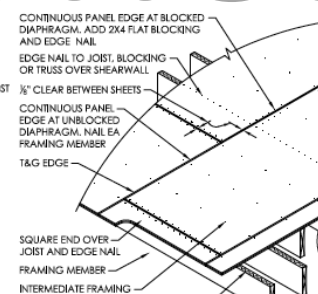
10 BEAM PENETRATION
 S003 NO REINFORCEMENT



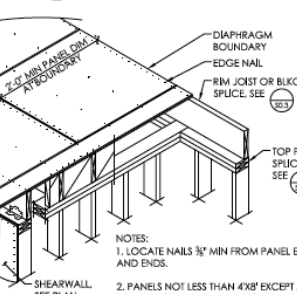
7 SPREADER DETAIL
 S003 BELOW POST



ELEVATION



3 DIAPHRAGM SHEATHING
 S003 CASE 1 & 3 RE: 2005 NDS SPECIAL DESIGN PROVISIONS FOR WIND & SEISMIC



Typical Wood Details

DRAFT

NOT FOR CONSTRUCTION

Architect

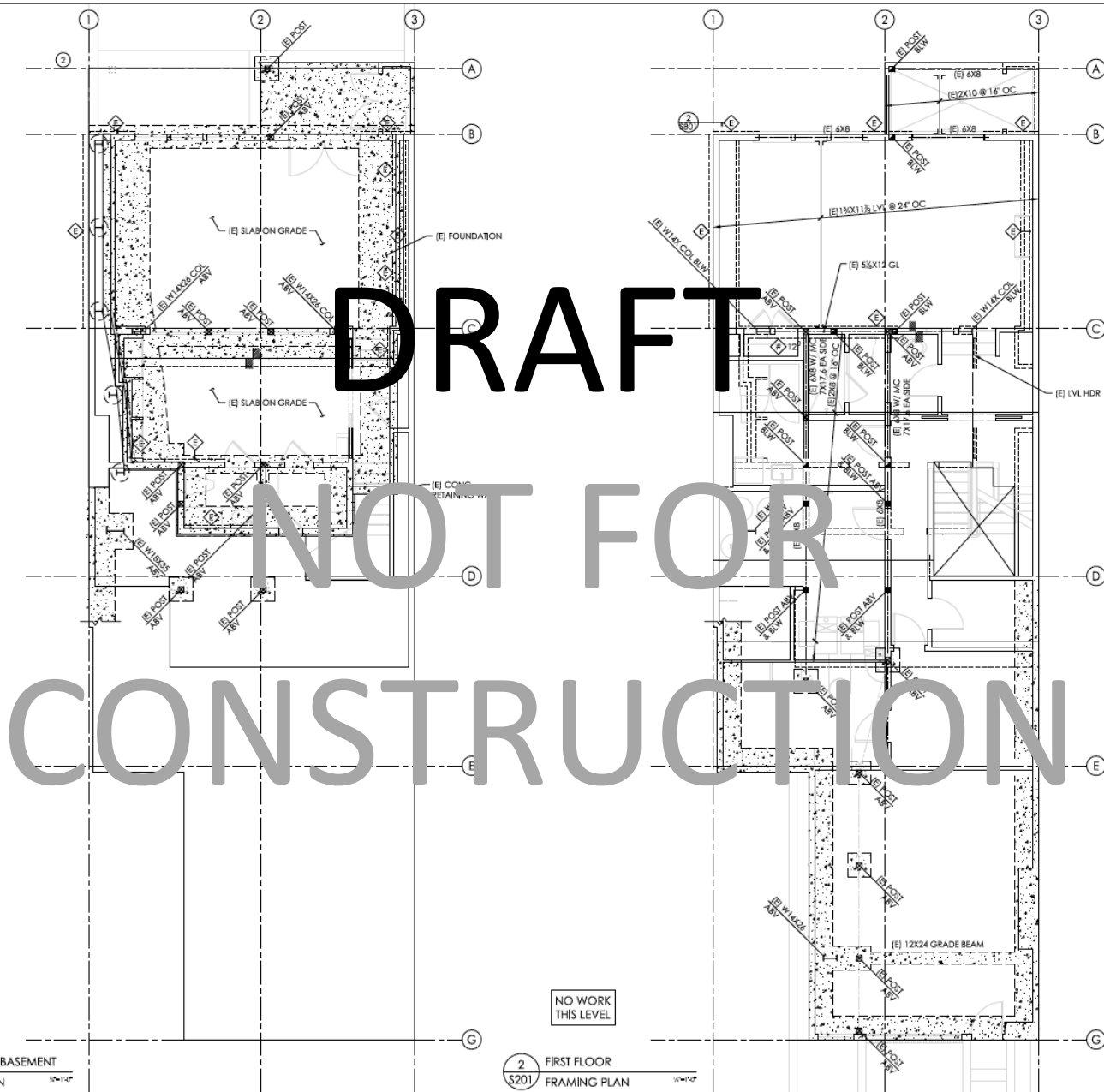
Structural Engineer

SE

Project Title

Drawing Title
 Typical Wood Details
 Date By
 AS SHOWN
 Job Number
 15048
 Drawing Number

S003



MATERIAL LEGEND		
	(E) CONCRETE WALL	
	(E) CONCRETE SLAB	
	(E) CONCRETE FOOTING	
	WOOD STRUCTURAL WALL ABOVE	
	BEARING WALL BELOW	
	STEEL BEAM	
	WOOD BEAM, FLUSH U.O.N.	
	HEADER OR DROPPED BEAM, SIZE PER	
	RAFTER OR JOIST	
	WOOD POST ABOVE 6x6 OR DBL STUD, U.O.N.	
	WOOD POST BELOW 6x6 OR DBL STUD, U.O.N.	
	WOOD POST ABV & BLW 6x6 OR DBL STUD, U.O.N.	

SHEET NOTES		
①	LVL 15x11 1/8 @ 16" OC	
②	LVL 15x7 1/4 @ 16" OC INFILL	
③	LVL 15x9 1/8 (CEILING)	
④	LVL 15x7 1/4 @ 16" OC, TYP (CEILING)	
⑤	DORMER ROOF FRAMING: LVL 15x5 1/8 @ 16" OC, TYP	
⑥	DBL LVL 15x7 1/4 AT SKYLIGHT OPENING & CEILING WINDOW OPENINGS	
⑦	DBL LVL 15x5 1/8 RAFTERS	
⑧		
⑨		
⑩		

Architect

Structural Engineer

SE

Project Title

Drawing Title

Foundation/Basement & 1st Fl. Framing Plans

Scale

AS SHOWN

Drawn By

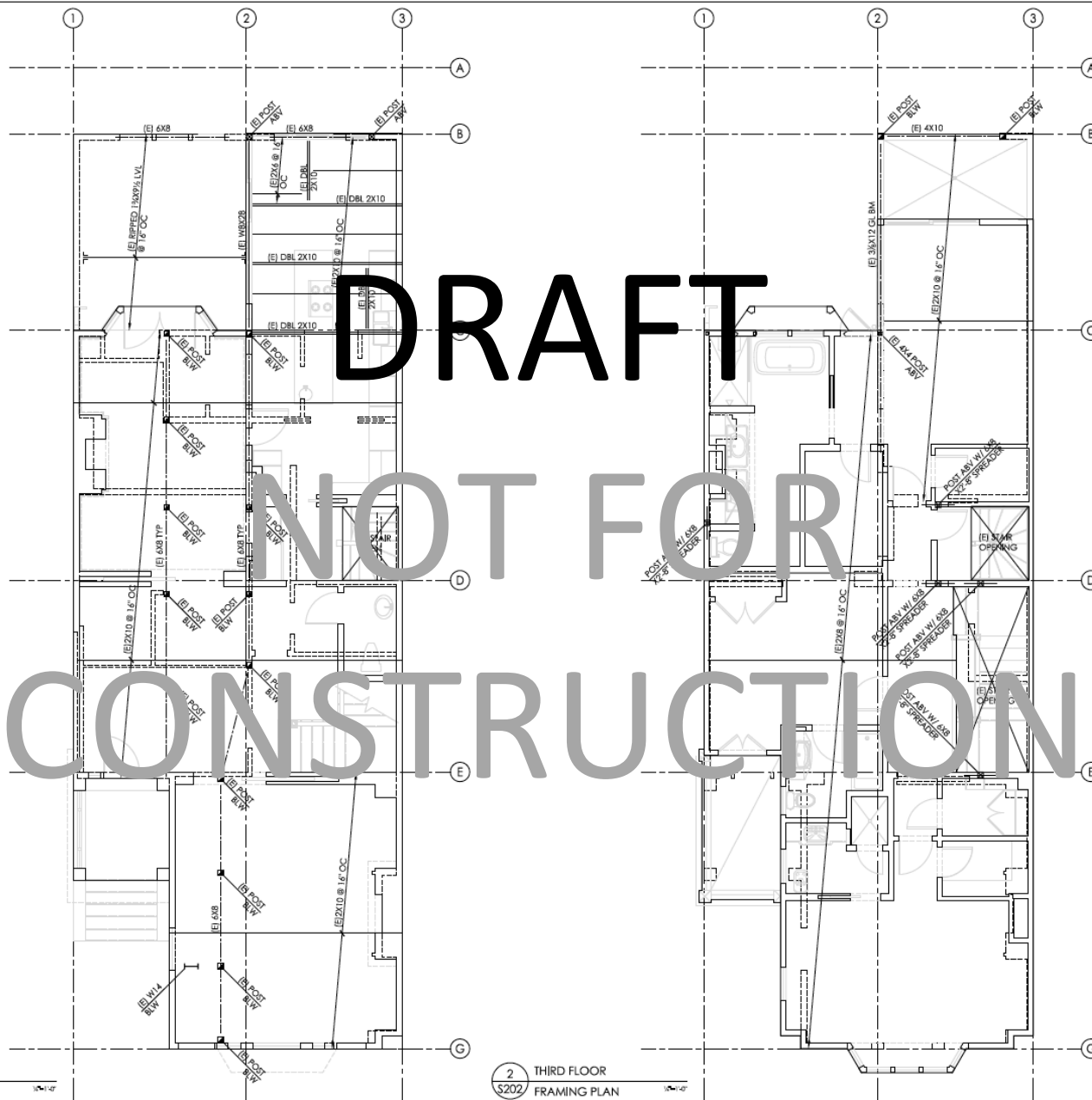
SV

Job Number

15048

Drawing Number

S201



MATERIAL LEGEND			
	(E) CONCRETE WALL		
	(E) CONCRETE SLAB		
	(E) CONCRETE FOOTING		
	WOOD STRUCTURAL WALL ABOVE		
	BEARING WALL BELOW		
	STEEL BEAM		
	WOOD BEAM, FLUSH U.O.N.		
	HEADER OR DROPPED BEAM, SIZE PER		
	RAFTER OR JOIST		
	WOOD POST ABOVE 6X6 OR DBL. STUD, U.O.N.		
	WOOD POST BELOW 6X6 OR DBL. STUD, U.O.N.		
	WOOD POST ABV & BLW 6X6 OR DBL. STUD, U.O.N.		

SHEET NOTES			
1	LVL 11X21 @ 16" OC		
2	LVL 11X21 @ 16" OC IN RILL		
3	LVL 11X21 (CEILING)		
4	LVL 11X21 @ 16" OC, TYP. (CEILING)		
5	DORMER ROOF FRAMING: LVL 11X21 @ 16" OC, TYP.		
6	DBL LVL 11X21 AT SKYLIGHT OPENING & CEILING WINDOW OPENINGS		
7	DBL LVL 11X21 RAFTERS		
8			
9			
10			

Architect

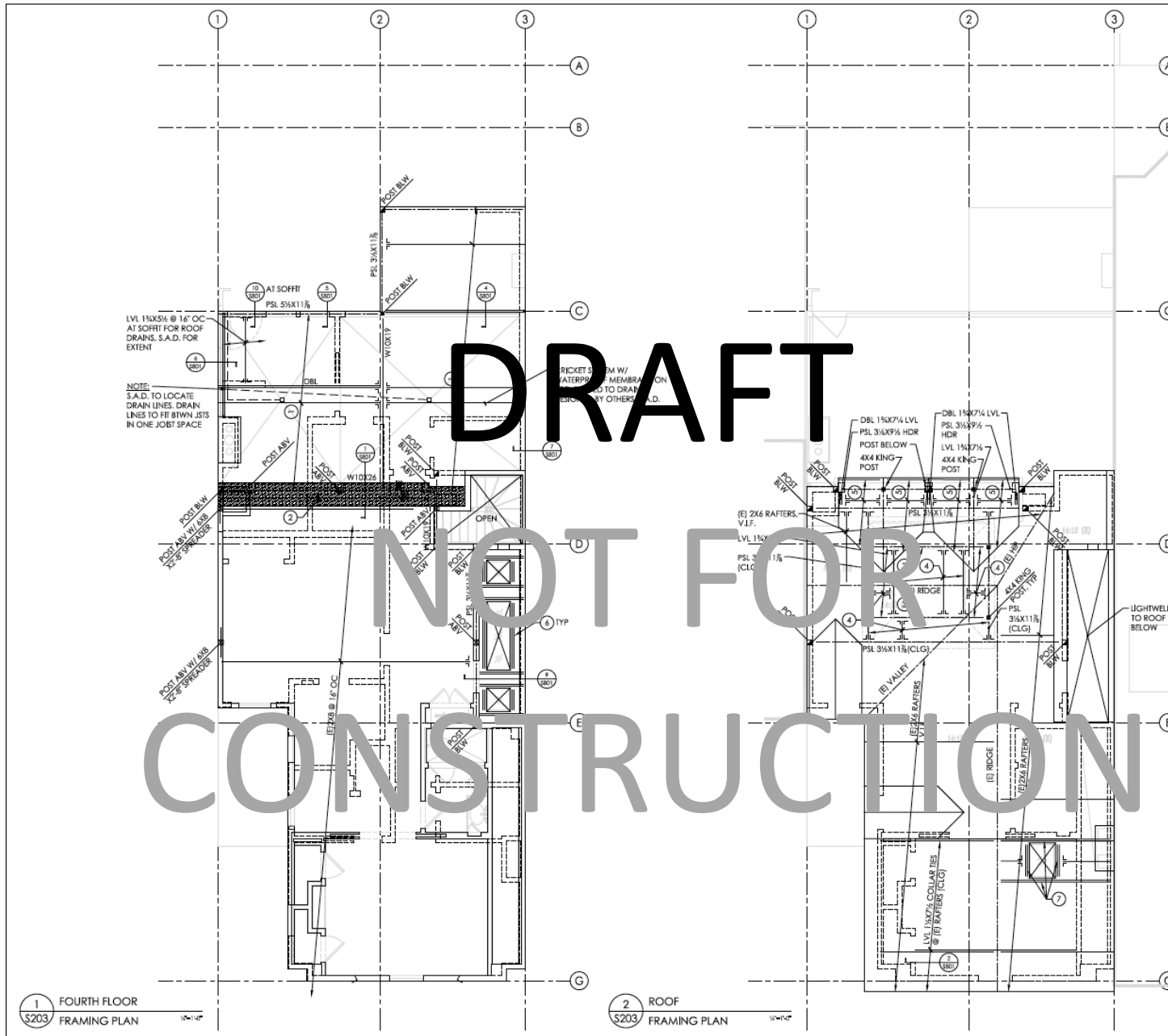
Structural Engineer

SE

Project Title

2nd & 3rd Floor Framing Plans
Scale: AS SHOWN
Drawn By: SV
Job Number: 15048
Drawing Number:

S202



MATERIAL LEGEND	
	(E) CONCRETE WALL
	(E) CONCRETE SLAB
	(E) CONCRETE FOOTING
	WOOD STRUCTURAL WALL ABOVE
	BEARING WALL BELOW
	STEEL BEAM
	WOOD BEAM, FLUSH U.O.N.
	HEADER OR DROPPED BEAM, SIZE PER
	RAFTER OR JOIST
	WOOD POST ABOVE 6x6 OR DBL STUD, U.O.N.
	WOOD POST BELOW 6x6 OR DBL STUD, U.O.N.
	WOOD POST ABV & BLW 6x6 OR DBL STUD, U.O.N.

SHEET NOTES	
1	LVL 11x5 1/2 @ 16" OC
2	LVL 11x7 1/2 @ 16" OC INFILL
3	LVL 11x9 1/2 (CEILING)
4	LVL 11x7 1/2 @ 16" OC, TYP (CEILING)
5	DORMER ROOF FRAMING: LVL 11x5 1/2 @ 16" OC, TYP
6	DBL LVL 11x7 1/2 AT SKYLIGHT OPENING & CEILING WINDOW OPENINGS
7	DBL LVL 11x5 1/2 RAFTERS
8	
9	
10	

Architect

Structural Engineer

SE

Project Title

4th Floor & Roof Framing Plans

AS SHOWN

SV

15048

S203

Structural Engineer

Project Title

Scale	AS SHOWN
Drawn By	SV
Job Number	15048
Drawing Number	

