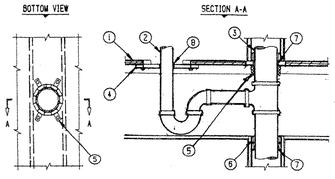
U.L. SYSTEM NO. FC2050
PLASTIC PIPE STACK WITH BRANCH LINE IN A 1-HR. FIRE-RATED WOOD FLOOR
F RATING = 1-HR.
T RATING = 1-HR.

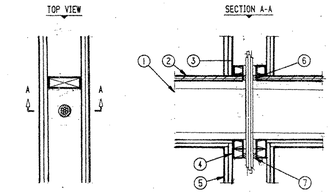


1. FLOOR/CEILING ASSEMBLY (L500 SERIES)[1-HR. FIRE-RATING].
2. MAX. 2" NOM. DIA. PVC/CPVC BRANCH PIPE [VENTED SYSTEM][MAX. DIA. OF OPENING = 2-1/2"].
3. MAX. 4" NOM. DIA. PVC/CPVC PIPE [VENTED SYSTEM][MAX. DIA. OF OPENING = 4-3/4"].
4. 3/4" PLYWOOD COVERING OPENING, OVERLAPPING EXISTING PLYWOOD BY MIN. 3" OR AS REQUIRED BY LOCAL BUILDING CODE AND FASTENED IN PLACE WITH 1-1/4" WOOD SCREWS, MIN. 8" C/C WITH PRE-DRILLED HOLES IN PLYWOOD COVERING.
5. A. HILTI 4" CP 643 FIRESTOP COLLAR WITH MTG. TABS ATTACHED WITH WOOD SCREWS, OR
   B. HILTI FIRESTOP RETAINING COLLAR FILLED WITH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.
6. TOP PLATE.
7. MIN. 3/4" DEPTH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT.
8. MIN. 3/4" DEPTH HILTI FS-ONE HIGH PERFORMANCE INTUMESCENT FIRESTOP SEALANT WITH 1/4" CROWN.

NOTE : ANNULAR SPACE = MINIMUM 0", MAXIMUM 1/4".

7 FIRE STOPPING AT FLOOR - CEILING ASSEMBLY

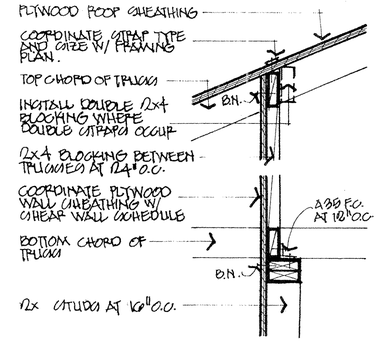
U.L. SYSTEM NO. FC3012
CABLE/CABLE BUNDLE THROUGH 1-HR. OR 2-HR. WOOD FLOOR ASSEMBLY
F RATING = 1-HR. OR 2-HR. L RATING AT AMBIENT = 5 CFM/SQ. FT.
T RATING = 1-HR. OR 2-HR. L RATING AT 400°F = 2 CFM/SQ. FT.



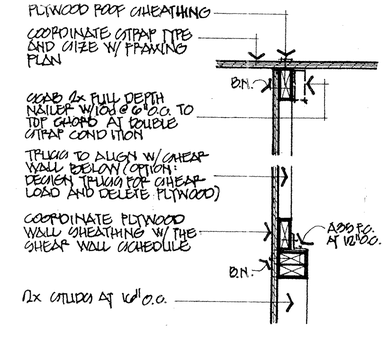
1. WOOD FLOOR ASSEMBLY : DESIGN NO. L500 SERIES IN THE U.L. FIRE RESISTANCE DIRECTORY.
2. LUMBER OR PLYWOOD SUBFLOOR WITH FINISH FLOOR OR LUMBER, PLYWOOD, OR FLOOR TOPPING MIXTURE.
3. MAXIMUM 2" DIAMETER CABLE BUNDLE MAY CONSIST OF ANY OF THE FOLLOWING :
   A. RG 59 COAXIAL CABLE.
   B. MAXIMUM B/C NO. 22 AWG TELEPHONE CABLE.
   C. MAXIMUM 3/C NO. 10 AWG CABLE (ROMEX).
   D. MAXIMUM 3/C (-GRND) 2/0 AWG SER CABLE (ALUMINUM OR COPPER).
   E. MAXIMUM 2/C NO. 12 AWG CABLE.
4. TOP PLATE.
5. GYPSUM WALL ASSEMBLY [1-HR. OR 2-HR. FIRE-RATING][2-HR. SHOWN].
6. MINIMUM 3/4" DEPTH HILTI FS-ONE FIRESTOP SEALANT.
7. PROVIDE A GENEROUS BEAD OF HILTI FS-ONE FIRESTOP SEALANT AT THE TOP PLATE.

NOTES : 1. MAXIMUM DIAMETER OF OPENING = 2-1/2".
2. ANNULAR SPACE BETWEEN CABLE BUNDLE AND OPENING = MIN. 0", MAX. 1/2".
3. CABLES TO FILL A MAXIMUM OF 45% OF CROSS-SECTIONAL AREA OF OPENING.

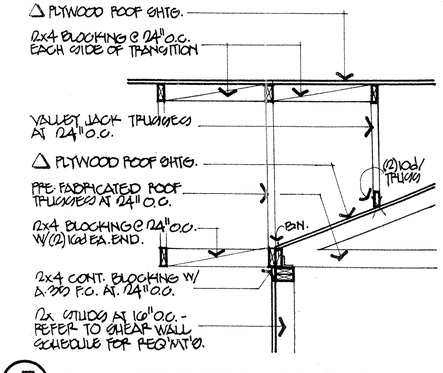
8 FIRE STOPPING AT FLOOR-CEILING ASSEMBLY



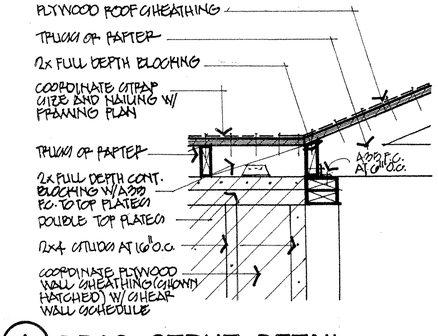
3 TRUSS PERPENDICULAR INTERIOR SHEAR WALL



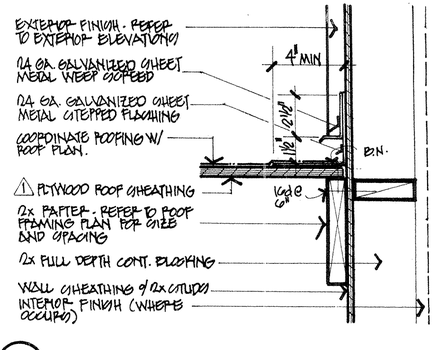
4 TRUSS PARALLEL INTERIOR SHEAR WALL



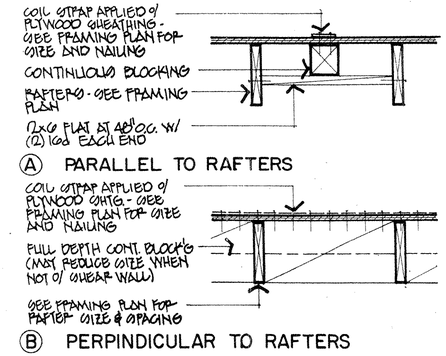
5 FILL FRAMING CONDITION



1 DRAG STRUT DETAIL



6 WALL-ROOF JUNCTION



Ⓐ PARALLEL TO RAFTERS

Ⓑ PERPINDICULAR TO RAFTERS

2 DRAG STRUT SECTION

HOLDOWN FIX

HOLDOWN ANCHOR BOLT FIX

SIZE OF MISSED OR MISPLACED HOLDOWN ANCHOR BOLT	REPLACEMENT EPOXY HOLDOWN ANCHOR BOLT		
	SIZE OF ANCHOR	MINIMUM EMBEDMENT	TYPE OF EPOXY
3/8" ø	3/8" ø	3 1/2"	SIMPSON SET EPOXY
1/2" ø	1/2" ø	4 1/4"	SIMPSON SET EPOXY
5/8" ø	5/8" ø	5"	SIMPSON SET EPOXY
3/4" ø	3/4" ø	6 3/4"	SIMPSON SET EPOXY
7/8" ø	7/8" ø	9"	SIMPSON SET EPOXY
1" ø	1" ø	12"	SIMPSON SET EPOXY
1 1/4" ø	1 1/4" ø	15"	SIMPSON SET EPOXY

NOTE:
1. ALL OTHER REQUIREMENTS WITHIN THESE PLANS APPLY TO THIS DETAIL. (ie: PLACEMENT, EDGE DISTANCE, etc.)
2. SPECIAL INSPECTION IS REQUIRED ON THESE EPOXY ANCHOR BOLTS.
3. ALL REQUIREMENTS OF ICBO# ER-5279 MUST BE STRICTLY FOLLOWED. CONTACT THE ENGINEER IF THERE ARE ANY QUESTIONS PRIOR TO INSTALLING THE ANCHORS.
4. IF THE REQUIRED SPACING IS LESS THAN THE MINIMUM SPACING CONTACT THE ENGINEER BEFORE INSTALLING THE ANCHORS.
5. SEE "HOLDOWN DETAILS" IN STANDARD DETAILS FOR A DEFINITION OF EMBEDMENT DEPTH & EDGE OF CONCRETE DISTANCE REQUIREMENTS (ie: THE c, b, & c VALUES)
6. THIS DETAIL DOES NOT APPLY TO HOLDOWN SITUATION WHERE THERE ARE TWO HOLDOWNS CONNECTED TO ONE POST.

NOTES:

1. FOR HD, HDA, HDC, PHD, LTT, MTT AND HTT TYPE HOLDOWNS, USE THE ABOVE TABLE TO INSTALL THE MISSED ANCHOR BOLT AND COMPLETE THE INSTALLATION OF THE HOLDOWN PER THE MANUFACTURER'S RECOMMENDATIONS.
2. FOR LSTHD, STHD, PAHD AND HPAHD TYPE HOLDOWNS, USE THE FOLLOWING REPLACEMENT HOLDOWNS, WITH ANCHOR BOLTS INSTALLED AS NOTED IN THE TABLE ABOVE:

MISSED HOLDOWN	REPLACE WITH:
PAHD42 ANCHOR	HD5A WITH 4x CONTINUOUS POST AND 5/8 INCH DIAMETER ANCHOR BOLT
LSTHD, STHD, AND HPAHD ANCHORS	HD6A WITH 4x CONTINUOUS POST AND 7/8 INCH DIAMETER ANCHOR BOLT

HANGER SCHEDULE

WOOD I - JOISTS

FOR JOIST SPACING OF 32" O.C. AND LESS

JOIST FLANGE WIDTH RANGE	JOIST DEPTH OF JOIST RANGE	TOP FLANGE HANGER,[7] U.N.O.
1 1/2"	0–14	ITT
1 1/2"	16	LBV
1 3/4"	0–16	WM
2 1/4 – 2 5/16	0–12	WM
2 1/4 – 2 5/16	14–22	WP
2 1/4 – 2 5/16	24–30	HW
2 1/2 – 2 9/16	0–13	LBV
2 1/2 – 2 9/16	14–30	HWI
3 1/2	0–30	HWI

JOIST FLANGE WIDTH RANGE	JOIST DEPTH OF JOIST RANGE	FACE MOUNT HANGER, U.N.O.
1 1/2"	0–11 7/8	MIU
1 1/2"	14	IUT
1 3/4	0–20	MIU
2 5/16	0–30	HU (MAX.)
2 1/2	0–16	HU
2 1/2	18–26	MIU

DIMENSIONED LUMBER

JOIST	TOP FLANGE HANGER, U.N.O.	FACE MOUNT HANGER, U.N.O.	JOIST	TOP FLANGE HANGER, U.N.O.	FACE MOUNT HANGER, U.N.O.
2x4	HU24TF	LUP24	3x4	HU34TF	U34
2x6	JB26	LUS26	3x6	W36	U36
2x8	JB28	LUS26	3x8	W38	U36
2x10	JB210	LUS28	3x10	W310	U310
2x12	JB212	LUS210	3x12	WNP312	U310
2x14	LB214	LUS210	3x14	WNP314	U310
2x16	LB216	U214	3x16	WNP316	U314

JOIST	TOP FLANGE HANGER, U.N.O.	FACE MOUNT HANGER, U.N.O.	JOIST	TOP FLANGE HANGER, U.N.O.	FACE MOUNT HANGER, U.N.O.
4x4	HU44TF	LUS44	6x6	WNP66	HU66 (MAX.)
4x6	HUS46TF	LUS46	6x8	WNP68	HU68 (MAX.)
4x8	B48	LUS48	6x10	WNP610	HU610 (MAX.)
4x10	HUS410TF	LUS410	6x12	HW612	HU612 MAX.
4x12	HUS412TF	LUS412	6x14	HW614	HU614 MAX.
4x14	HUS414TF	LUS414	6x16	HW616	HU616 MAX.
4x16	WNP416	HU416 (MAX.)			

GLULAMS[6]

JOIST SIZE	TOP FLANGE HANGER, U.N.O.	FACE MOUNT HANGER, U.N.O.
3 1/8" GLULAM	LEG	HGUS / (GLULAM DEPTH)
5 1/8" GLULAM	EG	EG (W/O TOP FLANGE)
6 3/4" GLULAM	EG	EG (W/O TOP FLANGE)
8 3/4" GLULAM	EG	

NOTES:

1. THIS SCHEDULE GIVES TYPICAL HANGER SIZES, U.N.O. ON PLANS.
2. IF THE DETAILS DO NOT INDICATE WHETHER A TOP FLANGE OR FACE MOUNT HANGER IS USED CONTACT THE ENGINEER BEFORE SELECTING A HANGER.
3. THE HANGERS LISTED IN THE ABOVE TABLE ARE THE MINIMUM REQUIREMENTS FOR A SIMPSON STRONG TIE HANGER. THE CONTRACTOR MAY CHOOSE TO USE A HANGER OF THE SAME TYPE AS REQUIRED BY THE DETAILS BUT WITH GREATER STRENGTH PROPERTIES., U.N.O.
4. N/A
5. WHERE A WOOD BEAM RUNS INTO A STEEL COLUMN USE A STEEL SADDLE WELDED TO STEEL COLUMN, U.N.O. (SEE "TYP. WOOD BEAM TO SIDE OF STEEL COLUMN" DETAIL)
6. TOP FLANGE HANGERS MUST BE USED AT ALL GLULAMS, U.N.O.
7. A TOP FLANGE HANGERS MUST BE USED AT ALL WOOD I-JOIST, U.N.O.
8. HANGERS FOR MANUFACTURED JOIST ARE SPECIFIED BY THE JOIST MANUFACTURE. SEE JOIST MANUFACTURES PLANS FOR MORE INFO.

MISSED SILL BOLT

SIZE OF MISSED OR MISPLACED SILL PLATE ANCHOR BOLT	REPLACEMENT EXPANSION ANCHOR BOLT			
	SIZE OF ANCHOR	MINIMUM EMBEDMENT	TYPE OF EXPANSION ANCHOR	MINIMUM ANCHOR SPACING
3/8" ø	3/8" ø	2 1/2"	HILTI KB-II	5"
1/2" ø	1/2" ø	3 1/2"	HILTI KB-II	7"
5/8" ø	5/8" ø	4"	HILTI KB-II	8"
3/4" ø	3/4" ø	4 3/4"	HILTI KB-II	9 1/2"
1" ø	1" ø	6"	HILTI KB-II	12"

NOTE:
1. ALL OTHER REQUIREMENTS WITHIN THESE PLANS APPLY TO THIS DETAIL. (ie: MIN. SPACING, EDGE DISTANCE, etc.)
2. SPECIAL INSPECTION IS NOT REQUIRED ON THESE EXPANSION ANCHOR BOLT.
3. ALL REQUIREMENTS OF ICBO# ER-4627 MUST BE STRICTLY FOLLOWED. CONTACT THE ENGINEER IF THERE ARE ANY QUESTIONS PRIOR TO INSTALLING THE ANCHORS.
4. IF THE REQUIRED SPACING IS LESS THAN THE MINUMUM SPACING CONTACT THE ENGINEER BEFORE INSTALLING THE ANCHORS.

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Revisions Date

PROPOSED APARTMENTS FOR:
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Project Architect:
REGISTERED ARCHITECT SCOTT A. VINCENT Exp. 12/31/05 No. C-15298 STATE OF CALIFORNIA

Issuances: Date:
- DESIGN REVIEW
- PLAN CHECK 11.07.05
- BACK CHECK
- PERMITS
- CONSTRUCTION
- AS BUILT

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Reference North:
Scale: AS NOTED
Project Name: LAMBE APARTMENTS
FRESNO, CALIFORNIA
Project Number: 240723
Plot Date:
Sheet Number:
A40
Of . Sheets .