



City of Milpitas

Building & Safety Department

DESIGN GUIDELINES

FOR

INTERIOR NON-BEARING PARTITIONS



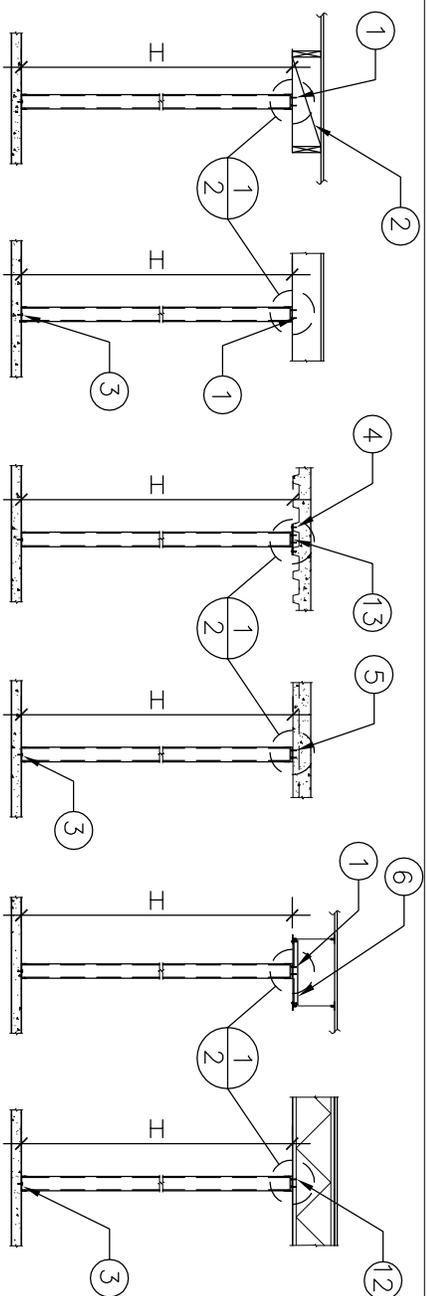
455 E. Calaveras Blvd.

Milpitas, CA 95035

408-586-3240

www.ci.milpitas.ca.gov

REV. JAN 2014



WOOD JOISTS

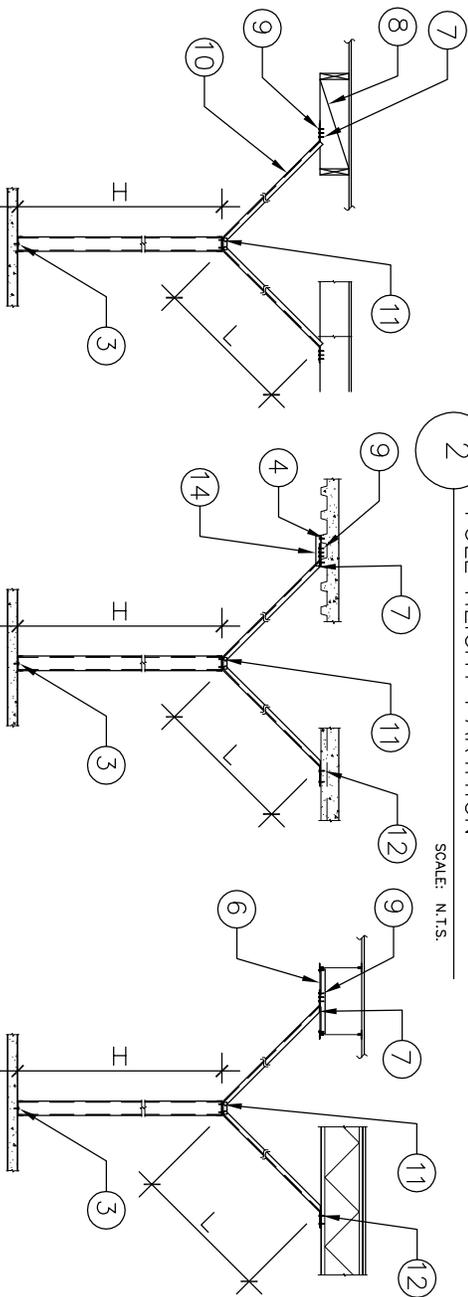
METAL DECK

OPEN WEB STEEL JOISTS
(AT MAX. 24" o.c.)

NOTE: 1. SEE TABLES A AND B ON SHEET 2 FOR STUD SIZE
2. CONNECTION DETAILS ARE NOT APPLICABLE TO FIRE RATED PARTITIONS

FULL HEIGHT PARTITION

SCALE: N.T.S.



WOOD JOISTS

METAL DECK

OPEN WEB STEEL JOISTS

NOTE: 1. SEE TABLES A AND B ON SHEET 2 FOR STUD AND DIAGONAL BRACE SIZE
2. CONNECTION DETAILS ARE NOT APPLICABLE TO FIRE RATED PARTITIONS

PARTIAL HEIGHT PARTITION

SCALE: N.T.S.



NOTES:

1. (2)-#12 S.M.S. @ 24" o.c. MAX.
2. 2x BLKG. @ 24" o.c.
3. (1)-0.138" ϕ HILTI X-C (ICC-ESR NO. 1663) WITH 1" EMBED. @ 16" o.c.
4. (2)-0.138" ϕ HILTI X-C (ICC-ESR NO. 1663) WITH 1" EMBED. TO EA. FLUTE (MIN. 2 FLUTES) (USE #12 S.M.S. AT ROOF DECK WITH INSULATION)
5. (2)-0.138" ϕ HILTI X-C (ICC-ESR NO. 1663) WITH 1" EMBED. @ 24" o.c. MAX. (USE #12 S.M.S. AT ROOF DECK WITH INSULATION)
6. 362S125-33 BLKG. @ 24" o.c. WITH (1)-0.138" ϕ HILTI X-C (ICC-ESR NO. 1663) AT EA. END
7. CUT FLANGE AND BEND WEB AT EA. END
8. 2x BLKG.
9. (3)-#12 S.M.S. @ 1" o.c.
10. DIAGONAL BRACE @ 8'-0" o.c. STAGG. IN EA. DIRECTION
11. (3)-#12 S.M.S.
12. (2)-0.138" ϕ HILTI X-C (ICC-ESR NO. 1663) @ 3" o.c.
13. 20GA x 3"WIDE METAL STRAP @ 24" o.c. SEE NOTE 4 FOR DECK ATTACHMENT.
14. 362S125-33 BLKG. @ EA. BRACE. SEE NOTE 4 FOR DECK ATTACHMENT.

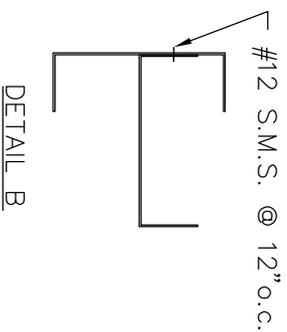
REV.	DATE	BY:	SCALE:
1	2/10	BYC	N.T.S.
2	1/14	OC	DATE: NOV 2009
			DRAWN BY: BYC
			REVIEWED BY: KI/LS/OC/GA/BK

City of Milpitas
Building & Safety Department
INTERIOR NON-BEARING PARTITION
SAMPLE DETAILS

SHEET
1
OF 2 SHEETS

TABLE A – VERTICAL STUDS

WOOD STUD		METAL STUD	
MAX. H	MIN. STUD SIZE	MAX. H	MIN. STUD SIZE
13'-6"	2x4 @ 16" o.c.	12'-0"	362S125-18 @ 16" o.c.
21'-0"	2x6 @ 16" o.c.	16'-0"	362S125-33 @ 16" o.c.
28'-0"	2x8 @ 16" o.c.	17'-0"	362S125-43 @ 16" o.c.
36'-0"	2x10 @ 16" o.c.	18'-9"	400S125-43 @ 16" o.c.
-	-	23'-9"	600S125-33 @ 16" o.c.
-	-	26'-0"	600S125-43 @ 16" o.c.
-	-	32'-9"	800S125-43 @ 16" o.c.

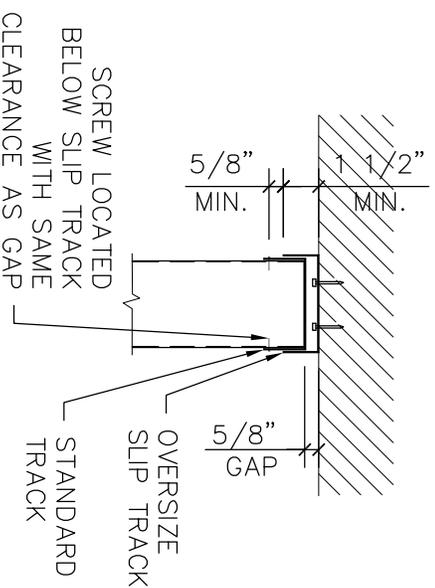
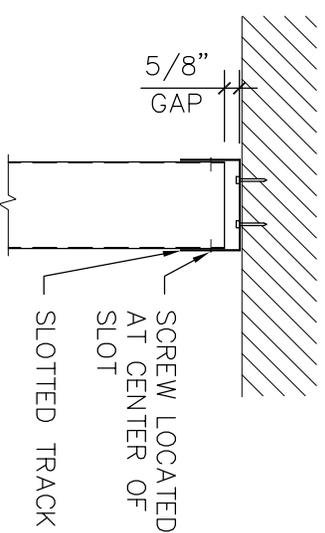
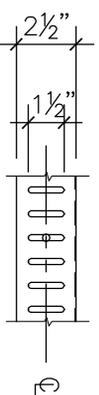


NOTE:

1. ALL WOOD STUDS SHALL BE MIN. DOUGLAS FIR-LARCH STUD GRADE.
2. TOP AND BOTTOM TRACK AND OVERSIZE SLIP TRACK SHALL MATCH THE GAGE OF VERTICAL METAL STUD BUT IN NO CASE BE LESS THAN 20 GA. FLANGE WIDTH OF OVERSIZE SLIP TRACK SHALL BE 1½" MIN.

DISCLAIMER:

THE INFORMATION PROVIDED IN THIS DESIGN GUIDELINES CARRIES NO IMPLIED OR INFERRED GUARANTEE AGAINST FAILURE OR DEFECTS. BY USING THIS DESIGN GUIDELINES THE CONTRACTOR/OWNER ACCEPTS THE FULL RESPONSIBILITY OF RISK. ALTERNATE DESIGN MAY BE USED WHEN PROVIDED WITH WET STAMPED AND SIGNED STRUCTURAL CALCULATIONS & DETAILS BY A CALIFORNIA LICENSED ENGINEER OR ARCHITECT.



NOTE: SEE SHEET 1 FOR FASTENER REQUIREMENTS



TABLE B – DIAGONAL BRACE

MAX. L	MIN. STUD SIZE	REMARK
7'-0"	(1)-362S125-33	-
10'-0"	(1)-362S162-33	-
12'-6"	(1)-362S200-33	-
17'-0"	(2)-362S125-33	DET. B
18'-6"	(2)-362S162-33	DET. B
20'-0"	(2)-400S162-33	DET. B
24'-0"	(2)-550S125-33	DET. B
26'-0"	(2)-600S125-33	DET. B

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BUILDING AND SAFETY DEPARTMENT

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I, the undersign, expressly acknowledge and agree that any and all use of the City of Milpitas Building & Safety Department Design Guidelines is at my sole risk. Neither the City of Milpitas nor any of its respective employees, agents, or officials warrant that access to and use of the Guidelines will be free from failure or defects. Nor does the City of Milpitas offer any warranty for the results that may be obtained from using the Guidelines or for the accuracy, reliability or design of any information provided by the Guidelines.

Print Name

Company

Signature

Plan Check No.

Date