



MR. ALI MADANI & MR. HOSSEIN ASHTIANI
5 UNIT CONDOMINIUMS at
1327 EUCLID STR., SANTA MONICA, CA-90404

L&V ARCHITECTS
1514 17th Street, Suite 207
Santa Monica, CA 90404
Tel. (310) 829 0996; Fax. (310) 829 7889

TITLE: DETAILS
SCALE: 02/27/07
SHEET NUMBER: S-3.3

ERECTION BOLT SCHEDULE

BEAM DEPTH	HORIZONTAL THK.	FL. THK.2	FL. THK.2	FL. THK.2	5/4" & ASOT NUMBER OF BOLTS
M12	5/8"	F1, THK.2	F1, THK.2	F1, THK.2	2
M10	5/8"	F1, THK.2	F1, THK.2	F1, THK.2	2
M8	5/8"	F1, THK.2	F1, THK.2	F1, THK.2	2

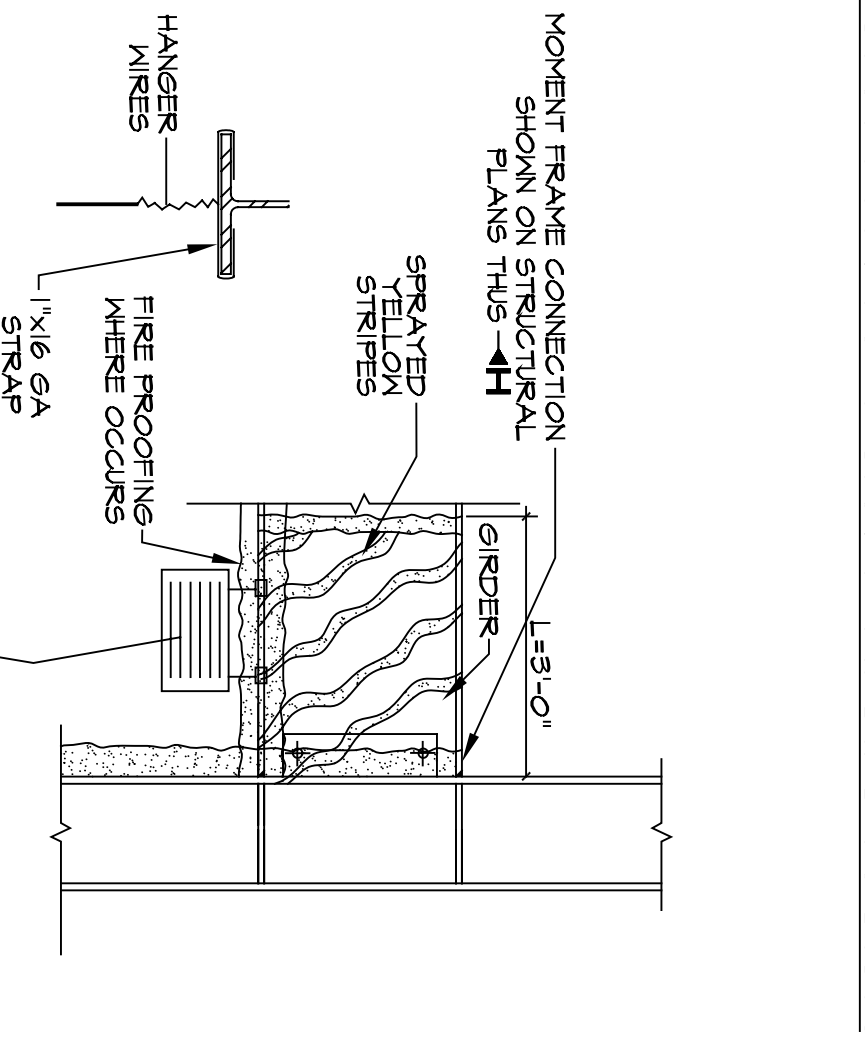
GEOMETRY OF RADIUS CUT (RBS)

	A	B	C	R
M2x35 / M2x36	4"	9.0"	1.5"	1.5"
M2x22	2.5"	6.0"	1.0"	1.0 (0.625)
M2x30 / M2x22	3.5"	1.5"	1.25"	5/16"
M8x21	3.0"	6.0"	1.25"	4.225"

CONDITIONS OF APPROVAL

- THIS IS AN ONE THE APPROVAL FOR THIS PROJECT ONLY.
- THE RBS CONNECTIONS SHALL COMPLY WITH THE RECALCULATION DATA IN THE TABLE 3-4 OF FEMA-350.
- THE FABRICATOR SHALL CONSIDER THE BEARING CAPACITY OF THE RBS CONNECTIONS IN THE AREA OF THE RBS CONNECTIONS.
- THE WELDED JOINTS FOR COMPOSITE DECK AND CONCRETE SHOULD NOT BE PLACED IN THE AREA OF 6 INCHES BEFORE THE EXTREME END OF THE RBS.
- THE WELDS OF THE CONNECTION SHALL MEET THE REQUIREMENT OF FEMA-355, RECOMMENDED RECALCULATION FRAME CONSTRUCTION FOR SEISMIC APPLICATIONS.
- THE WELDING OF THE RBS CONNECTIONS SHALL BE PERFORMED BY A CERTIFIED WELDER AND HAS DONE SHALL BE RECORDED BY THE FABRICATOR.
- THE FEMA-350 PRE-QUALIFIED RBS CONNECTIONS SHALL BE USED FOR THE RBS CONNECTIONS.
- THIS APPROVAL IS FOR THE RBS CONNECTIONS ONLY AND DOES NOT COVER THE CONNECTIONS FOR THE OTHER PARTS OF THE STRUCTURAL STEEL BUILDING. SUPPLEMENTAL NO. 2 TO THE WELDING PROCEDURE SHALL BE PROVIDED BY THE FABRICATOR.
- BOTH FLANGES OF BEAMS SHALL BE LATERALLY BRACED AT THE RBS CONNECTIONS. THE BRACING SHALL BE PROVIDED BY THE FABRICATOR.
- THE WELDED JOINTS OF THE RBS CONNECTIONS SHALL EXCEED 2500 RY/T. PLACEMENT OF LATERAL SUPPORT FOR THE MEMBER SHALL BE CONSISTENT WITH THAT OF THE BEAM.
- ANY LATERAL SUPPORT ADJACENT TO THE REDUCED BEAM SECTION(S) SHALL HAVE A DESIGN STRENGTH OF THE BEAM FLANGE COMPARED AS RY/T BRIT. NO ATTACHMENT, WELDING OR HOLES AREA ALLOWED WITHIN THE RBS CONNECTIONS.

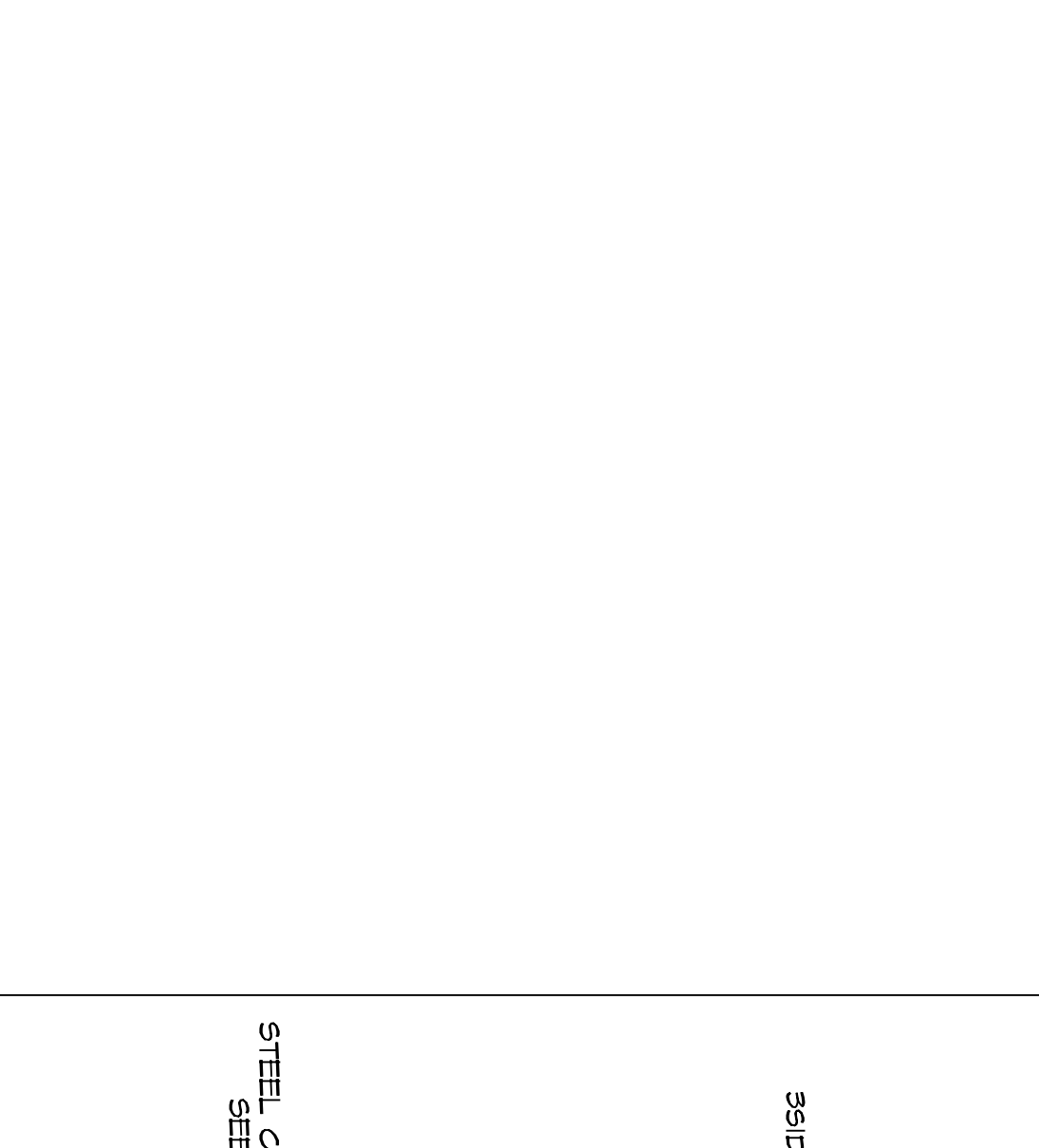
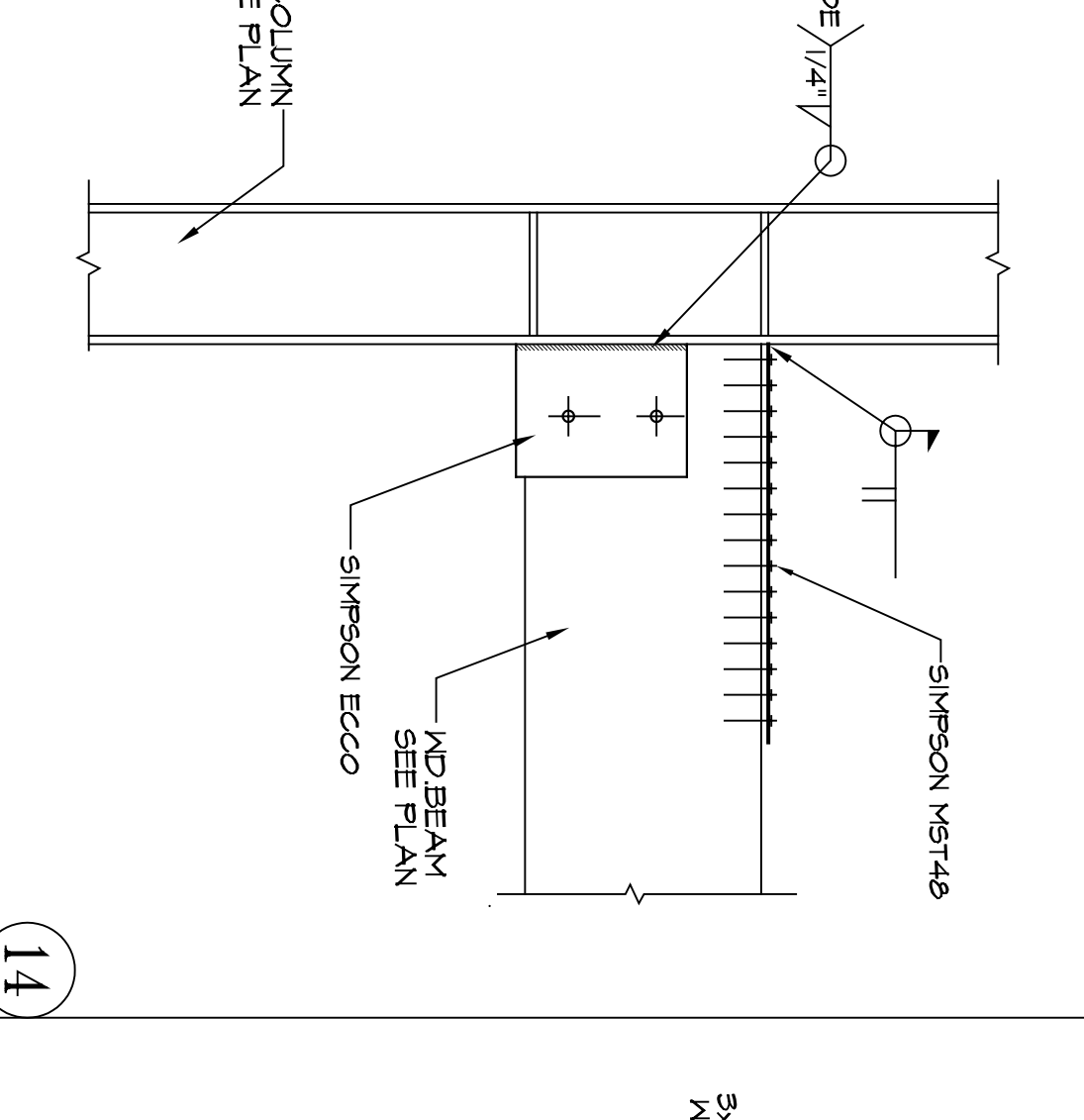
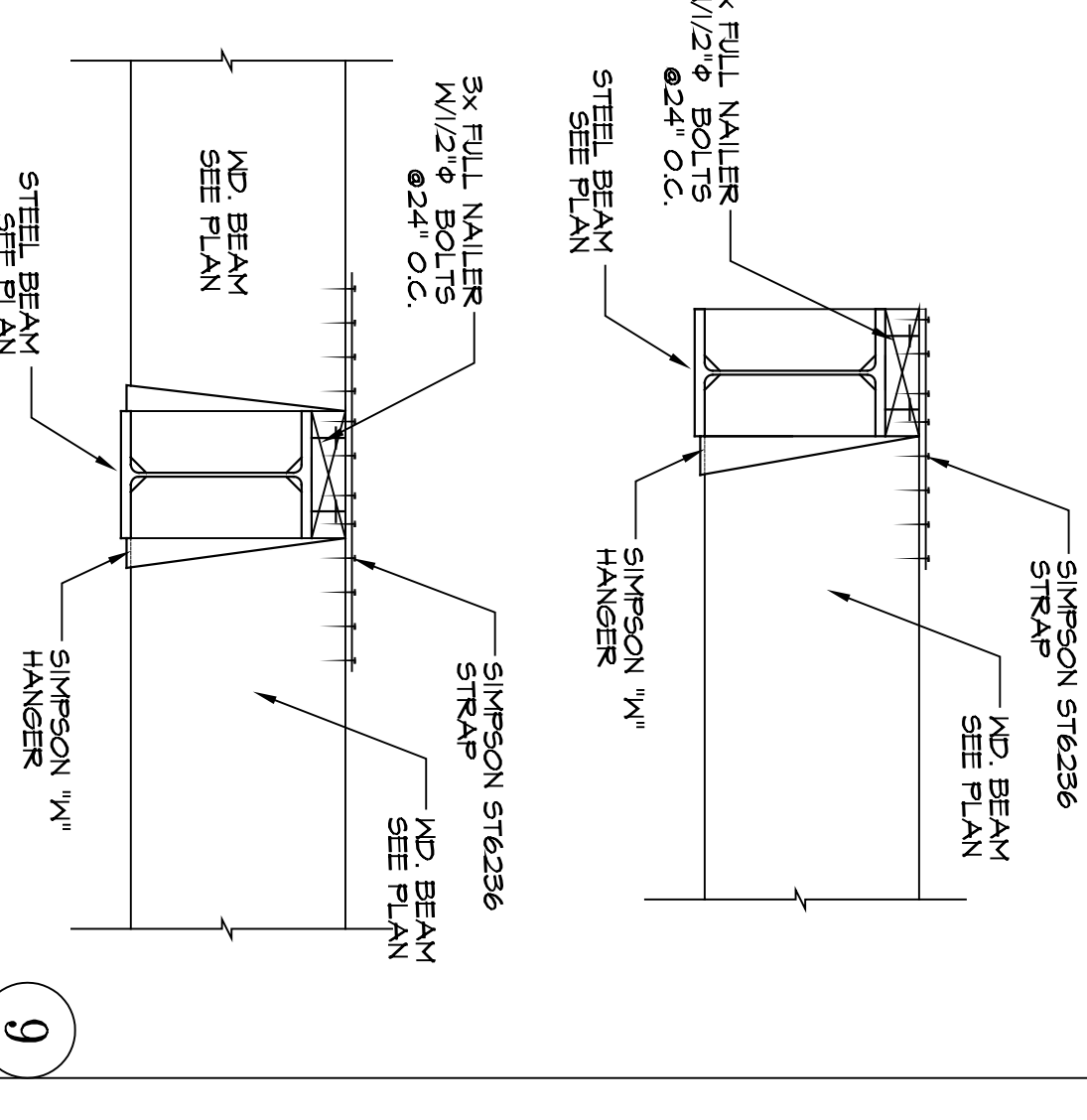
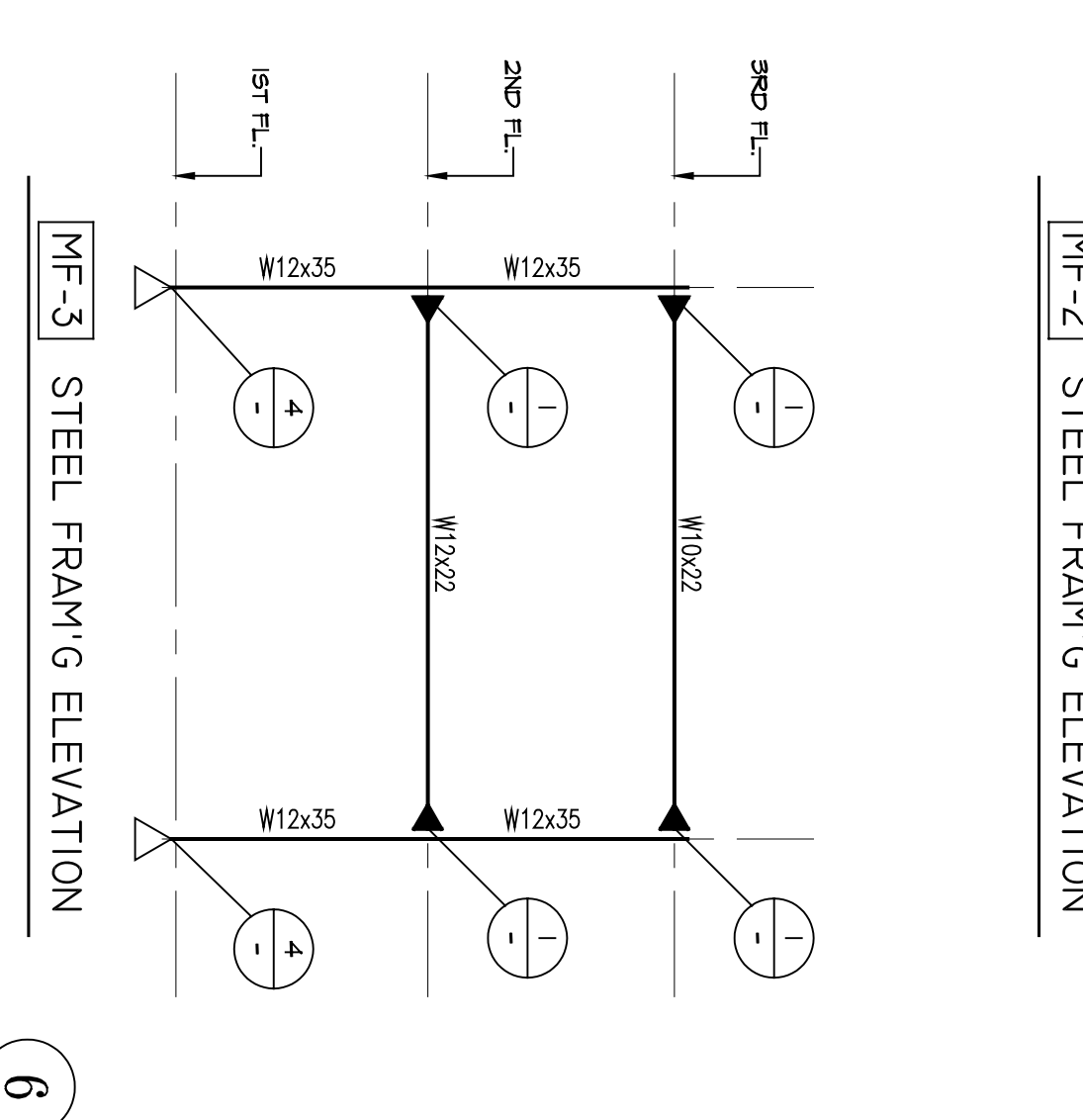
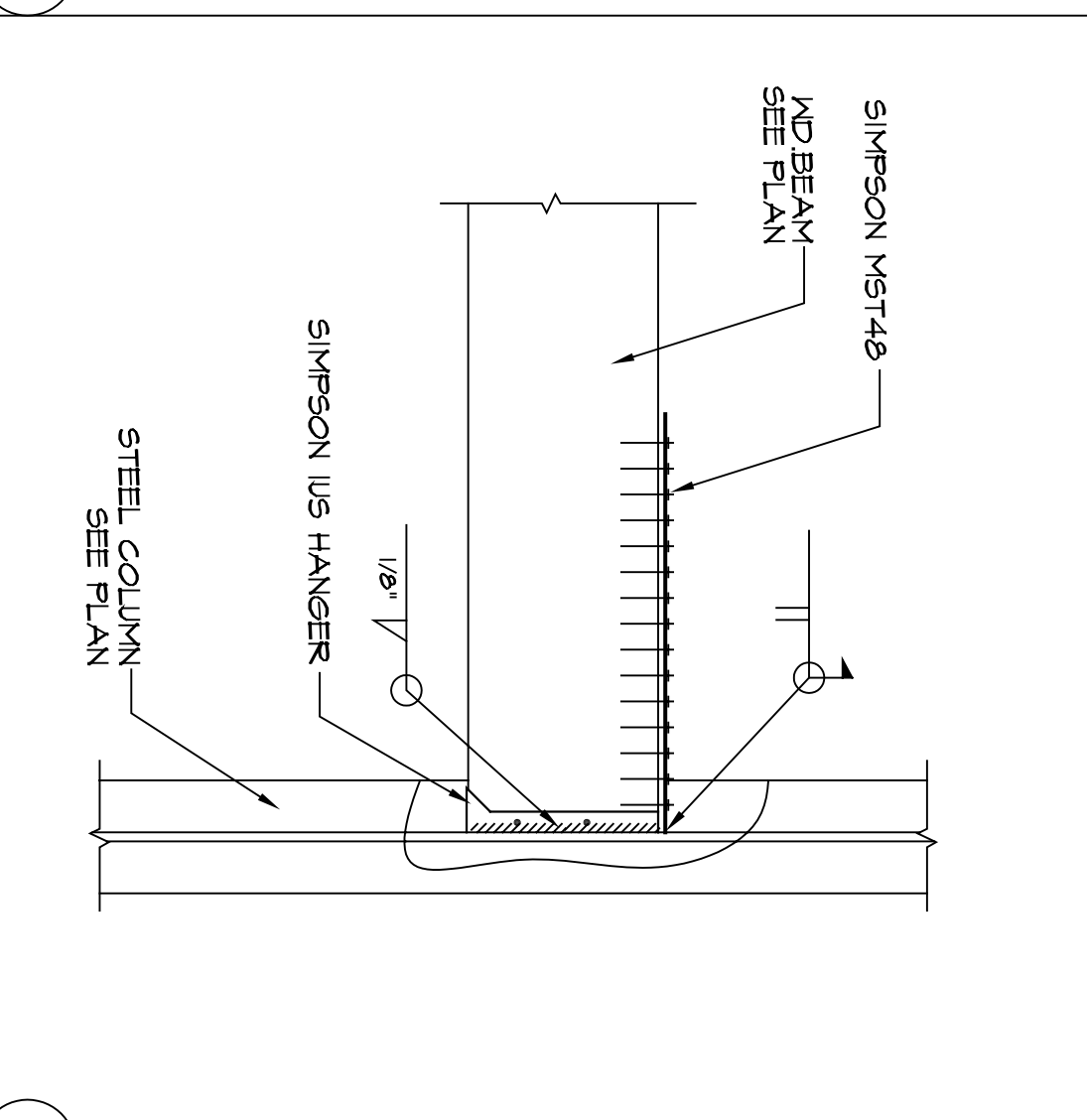
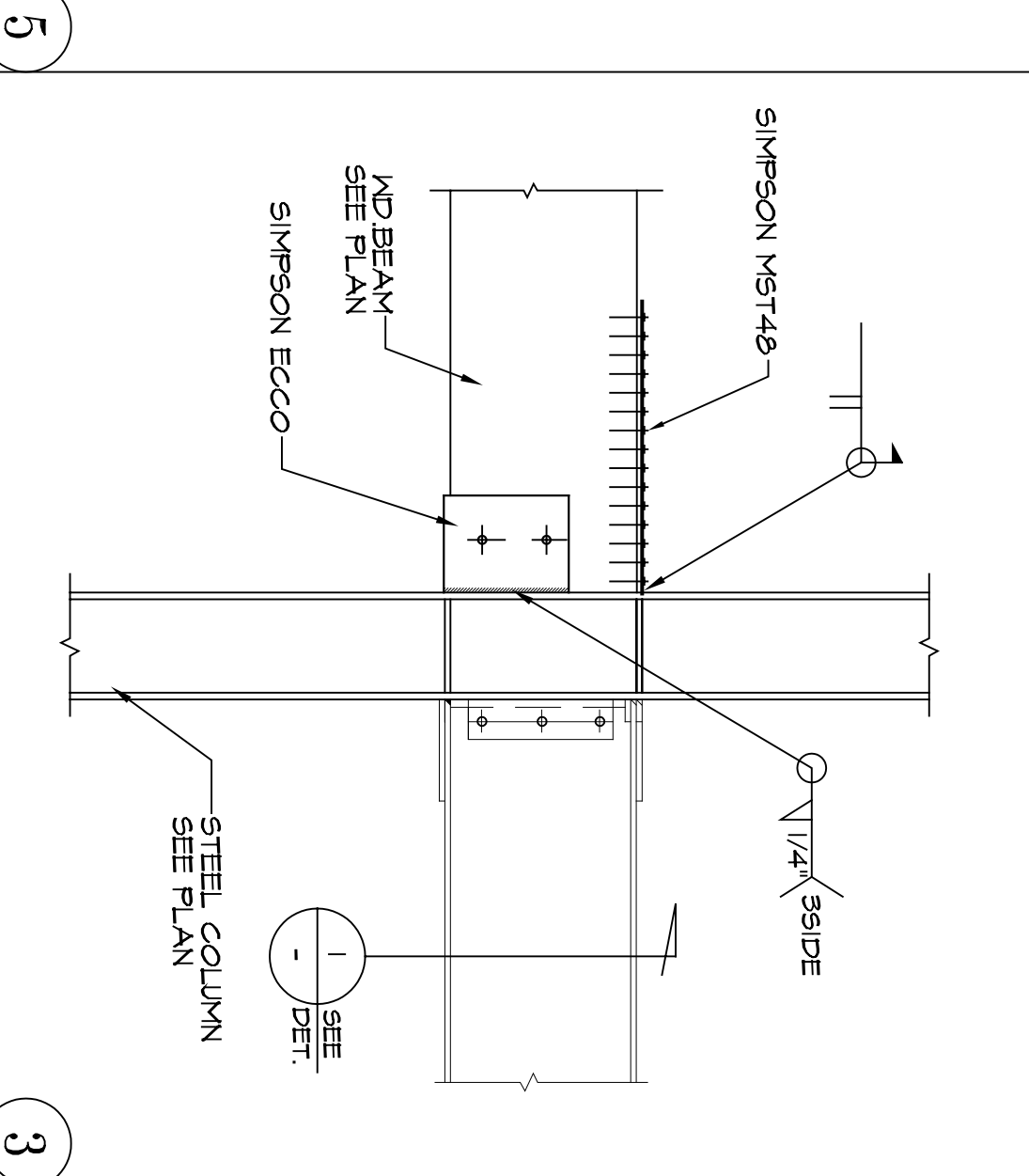
DETAIL PROHIBITING CONNECTIONS
MOMENT FRAME & SHEAR HINGING REGION



NOTICE BEFORE INSTALLING

CONNECTIONS THAT PENETRATE STEEL SURFACE INCLUDING BOLTS, HOLES, GROOVES, SPRAYS, OR ANY OTHER TYPE OF PENETRATION ARE PROHIBITED WITHIN THE REGION SHOWN WITH YELLOW STRIPES. IT IS A VIOLATION OF XXXXX TO MAKE SUCH CONNECTIONS.
POSTED (INSERT DATE)
DO NOT REMOVE THIS TAG

TEXT MAY BE PRINTED ON PLATE OR ON STICKERS & AFFIXED TO BOTH SIDES.



CONTINUITY PLATE SCHEDULE

CONT. PL. SIZE (T & B)	FILLET WELD SIZE (T & B)
5/8"	5/16"

DOUBLER SHEAR SCHEDULE

COL.	ORDER	DOUBLER
M2x30	M2x35	5/8"
M2x40	M2x30	5/8"
M2x40	M2x22	5/8"
M2x35	M2x22	NOT REQUIRED
M2x35	M2x22	NOT REQUIRED

NOTE: COL. AND GRADE 50 PLATE ARE 5/8" GRADE 50

NOTES:
1. ALL WELDED JOINTS THAT ARE A PART OF THE FRAME ARE CATEGORIZED ACCORDING TO THE APPLICABLE CONFORMANCE AND DEMAND CATEGORY USING THE FIRST LETTER DERIVES THE DEMAND CATEGORY (CONSISTS OF A, B, OR C).
2. NOT LETTER DERIVES THE CONSEQUENCE CATEGORY (ENTER T OR L - TRANSVERSE OR LONGITUDINAL).
3. LAST LETTER DERIVES THE PRIMARY LOADING (ENTER T OR L - TRANSVERSE OR LONGITUDINAL).
4. WELDED JOINTS ARE REFERENCED TO FEMA-355 AND INSPECTION TAGS REQUIRED FOR THESE WELDED JOINTS.

NOTES

- ALL WELDS ON MEMBERS PART OF THE FRAME SHALL BE WELDED TO THE FRAME AND SHALL BE CATEGORIZED ACCORDING TO THE APPLICABLE CONFORMANCE AND DEMAND CATEGORY USING THE FIRST LETTER DERIVES THE DEMAND CATEGORY (CONSISTS OF A, B, OR C).
2. NOT LETTER DERIVES THE CONSEQUENCE CATEGORY (ENTER T OR L - TRANSVERSE OR LONGITUDINAL).
3. LAST LETTER DERIVES THE PRIMARY LOADING (ENTER T OR L - TRANSVERSE OR LONGITUDINAL).
4. WELDED JOINTS ARE REFERENCED TO FEMA-355 AND INSPECTION TAGS REQUIRED FOR THESE WELDED JOINTS.
- REDUCED BEAM SECTION CONNECTION BY FEMA 350 (RBS) RECOMMENDED RECALCULATION FRAME CONSTRUCTION FOR SEISMIC APPLICATIONS AND SMOOTHNESS REQUIREMENTS CUTTING METHODS AND SMOOTHNESS REQUIREMENTS.
- CUT GROOVE WELD AT TOP AND BOTTOM FLANGES. AT THE TOP FLANGE EITHER (1) REMOVE WELD BACKING, BACK GOUGE AND ADD 5/16" MINIMUM FILLET WELD OR (2) LEAVE BACKING IN PLACE REMOVE WELD BACKING AND ADD 5/16" MINIMUM FILLET WELD WELD CATEGORY AWT.
- WELDED CONNECTION, RESECTION LOADS, NUMBER, TYPE AND SIZE SELECTED FOR RESECTION LOADS.
- CUT WELDED WELD CATEGORY BWT. SHEAR TAB ACCESS HOLES PLUS 1/4" SHEAR TAB THICKNESS IS AS REQUIRED FOR RESECTION AND THE TAB SERVES AS BACKING FOR CUT WELD (8/16" MIN. THICKNESS) SHEAR TABS MAY BE CUT FROM THE BEAM WEB AND A FILLET WELD ON THE SIDE OF THE BEAM WEB AND A FILLET WELD ON THE SIDE OF THE BEAM WEB AND NO WELDING OF THE SHEAR TAB TO THE BEAM WEB IS REQUIRED. WELD CATEGORY BWT.
- BOLETS CALCULATED AS IN SECTION 5.2 AND USED FOR SHEAR. SHEAR TABS AND BOLTS ARE USED FOR SHEAR. SHEAR TABS SHOULD BE WELDED TO THE COLUMN FLANGE WITH A SHEAR TAB WELD FOR FILLET BUT BOLTS SHALL BE AWT 435 OR A409 AND SHALL BE FULLY-TIGHTENED.
- WELDED BEAM PLATE WELDED BY SECTION 5.5.2.2. SEE WMT ALSO SEISMIC PROVISIONS SECTION 4.5.2. CONVENTIONAL C43 AND FIGURES C-42 AND C-43 FOR CONNECTION REQUIREMENTS. WELD CATEGORY BWT SHALL BE AWT 435 OR A409 AND SHALL BE FULLY-TIGHTENED.

NOTE (WELDING)

- ALL WELDED JOINTS THAT ARE A PART OF THE FRAME ARE CATEGORIZED ACCORDING TO THE APPLICABLE CONFORMANCE AND DEMAND CATEGORY USING THE FIRST LETTER DERIVES THE DEMAND CATEGORY (CONSISTS OF A, B, OR C).
2. NOT LETTER DERIVES THE CONSEQUENCE CATEGORY (ENTER T OR L - TRANSVERSE OR LONGITUDINAL).
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