General Notes (Continued)

CF. COLD-FORMED METAL FRAMING

CF.1 DESIGN OF COLD-FORMED METAL FRAMING COMPONENTS AND ACCESSORIES IS THE RESPONSIBILITY OF THE COLD-FORMED METAL FRAMING MANUFACTURER. COLD-FORMED METAL FRAMING INCLUDES ANY BUILDING COMPONENT WHICH UTILIZES LIGHT GAGE STEEL FRAMING MEMBERS, THEIR CONNECTION TO EACH OTHER AND THEIR CONNECTION TO THE BUILDINGS PRIMARY STRUCTURAL FRAME.

CF.2 ANY COLD-FORMED MEMBER SIZES NOTED ARE FOR PRELIMINARY PRICING INFORMATION ONLY. THE COMPLETE DESIGN OF COLD-FORMED METAL FRAMING SYSTEM AND PREPARATION OF ERECTION DRAWINGS ARE BY THE ENGINEER RESPONSIBLE FOR THEIR DESIGN.

CF.3 SUBMIT THE FOLLOWING:

A. PRODUCT DATA: FOR EACH TYPE OF COLD-FORMED METAL FRAMING PRODUCT AND ACCESSORY UTILIZED.

B. SHOP DRAWINGS: SHOW LAYOUT, SPACINGS, SIZES, THICKNESS, AND TYPES OF COLD-FORMED METAL FRAMING; FABRICATIONS; AND FASTENING AND ANCHORAGE DETAILS, INCLUDING MECHANICAL FASTENERS. SHOW REINFORCING CHANNELS, OPENING FRAMING, SUPPLEMENTAL FRAMING, STRAPPING, BRACING, BRIDGING, SPLICES, ACCESSORIES, CONNECTION DETAILS, AND ATTACHMENT TO ADJOINING WORK.

C. CALCULATIONS: COLD-FORMED METAL FRAMING DESIGN CALCULATIONS FOR THE FILES OF THE STRUCTURAL ENGINEER AND ARCHITECT. CALCULATIONS SHALL BEAR THE SEAL OF A PROFESSIONAL ENGINEER REGISTERED IN THE STATE WHERE THE PROJECT IS LOCATED.

CF.4 PROVIDE COLD-FORMED METAL FRAMING CAPABLE OF WITHSTANDING DESIGN LOADS WITHIN LIMITS AND UNDER CONDITIONS INDICATED.

A. DESIGN LOADS AS INDICATED IN PART 1 OF THESE GENERAL NOTES.

B. DEFLECTION LIMITS: DESIGN FRAMING SYSTEMS TO WITHSTAND DESIGN LOADS WITHOUT DEFLECTIONS GREATER THAN THE FOLLOWING:

1. LOAD-BEARING WALL FRAMING: HORIZONTAL DEFLECTION OF 1/360 OF THE WALL HEIGHT.

2. EXTERIOR NON-LOAD-BEARING FRAMING: HORIZONTAL DEFLECTION OF 1/360 OF THE WALL HEIGHT.

CF.5 DESIGN CURTAIN WALL FRAMING SYSTEM TO ACCOMMODATE LIVE LOAD DEFLECTION OF PRIMARY BUILDING STRUCTURE AS FOLLOWS:

A. UPWARD AND DOWNWARD MOVEMENT OF 3/4 INCH.

CF.6 VERTICAL STUDS SHALL BE 100% END BEARING.

CF.7 PROVIDE WALL BRACING, CONNECTION DETAILS, AND WINDOW HEADERS AS RECOMMENDED BY THE STUD MANUFACTURER FOR LOAD-BEARING STUDS.

CF.8 VERTICAL STUDS INTERRUPTED BY WALL OPENINGS SHALL BE LOCATED EQUALLY ON EACH SIDE OF THE OPENING. PROVIDE EVEN NUMBER OF FULL HEIGHT STUDS ON EACH SIDE OF OPENING. WELD STUD FLANGES TOGETHER WITH FILLET WELDS AT 6".

Abbreviations

&	And	GA	Gage or Gauge	SCHED	Schedule
@	At (when indicating spacing only)	GALV	Galvanized	SECT	Section
		GB	Grade Beam	SHT	Sheet
A/C	Air Conditioner	GC	General Contractor	SIM	Similar
ADDNL	Additional	GEN	General	SP	Space
ADJ	Adjacent	GOVT	Government	SPEC (S)	Specification (s)
AESS	Architecturally Exposed Structural Steel	GR	Grade	SPECD	Specified
		GRID	Ground	SQ	Square
AFF	Above Finish Floor			STD	Standard
AHU	Air Handling Unit	H STUD (S)	Headed Stud (s)	STIFF.	Stiffener
ALT	Alternate	HD RK	Hard Rock	STIR.	Stirrups
ANC	Anchor	HK	Hook	STL	Steel
APPROX	Approximate	HORZ	Horizontal	STR	Straight
APPRV	Approved	HS	High Strength	STR'L	Structural or Struct'L
AR	Anchor Rod	HT	Height	SUPT (S)	Support (s)
ARCH.	Architectural			SYM	Symmetrical
ASD	Allowable Stress Design	I.F.	Inside Face		
		ID	Inside Diameter	T	Tension
B To B	Back To Back	INFO	Information	T&B	Top and Bottom
BAL	Balance	INT	Interior	T&G	Tongue & Groove
BCX	Bottom Chord Extension	INTM	Intermediate	T.O.P.	Top of Pier or Pedestal
BFF	Below Floor Finish	INV	Inverted	T.O.W.	Top of Wall
BLDG	Building			TCX	Top Chord extension
BLK	Block	JG	Joist Girder	TEMP	Temperature
BLKG	Blocking	JST (S)	Joist (s)	THK	Thick
BM	Beam	JT	Joint	TOB	Top of Beam
BOT	Bottom			TOC	Top of Concrete
BRDG	Bridging	K	Kips (1000 lbs)	TODP	Top of Drilled Pier
BRG	Bearing	KLF	Kips per lineal foot	TOF	Top of Footing
BRK	Brick	KSF	Kips per square foot	TOGB	Top of Grade Beam
BSMT	Basement	KSI	Kips per square inch	TOJ	Top of Joist
BSPL	Baseplate			TOPC	Top of Pile Cap
BTWN	Between		Angle	TOS	Top of Steel
		LBS	Pounds	TR	Tread
C	Channel	LL	Live Load	TYP	Typical
C TO C	Center To Center	LLH	Long Leg Horizontal		
C°	Degree Celsius	LLV	Long Leg Vertical	U.N.	Unless Noted
CIP	Cast In Place	LONG.	Longitudinal		
CJ	Control Joint	LRFD	Load and Resistance Factor Design	V	Shear
CJP	Complete Joint Penetration	LWT CONC	Lightweight Concrete	VERT	Vertical
CL	Centerline			W/	With
CLR	Clear Or Clearance	M	Moment	W/O	Without
CMU	Concrete Masonry Unit	MAS	Masonry	WC	Wind Moment Connection
COL	Column	MATL	Material	WD	Wood
COMP	Compression	MAX	Maximum	WDW	Window
CONC	Concrete	MC	Moment Connections (s)	WF	Wide Flange
CONN (S)	Connection (s)	MECH	Mechanical	WL	Wind Load
CONST	Construction	MEZZ	Mezzanine	WP	Work Point
CONT	Continuous	MFR	Manufacture (r)	WPFG	Waterproofing
CONTR	Contractor	MID	Middle	WS	Waterstop
COORD	Coordinate	MIN	Minimum	WT	Weight
COR	Corner	MISC	Miscellaneous	WWR	Welded Wire Reinforcement
COV PL	Cover Plate	MO	Masonry Opening		
CTR	Center				
		NF	Near Face	XS	Extra Strong
DBL	Double	NIC	Not In Scale	XXS	Double Extra Strong
DEG OR °	Degree	NO. OR #	Number		
DET	Detail	NOM	Nominal		
DIA or Ø	Diameter	NS	Near Side		
DIAG	Diagonal	NTS	Not To Scale		
DIM (s)	Dimension (s)				
DL	Dead Load	O.F.	Open Face		
DN	Down	OC	On Center		
DP	Drilled Pier	OD	Outside Diameter		
DWG (s)	Drawing (s)	OPNG (S)	Opening (s)		
DWL (s)	Dowel (s)	OPP	Opposite		
		OSL	Outstanding Leg		
EA	Each				
EF	Each Face	PAR.	Parallel		
EJ	Expansion Joint	PARTN (S)	Partition (s)		
EL	Elevation	PC	Precast Concrete		
ELEC	Electrical	PCI	Pounds Per Cubic Inch		
ELEV	Elevator	PCY	Pounds Per Cubic Yard		
EMBED.	Embedment	PEMB	Preengineered Metal Building		
ENGR	Engineer				
EOD	Edge of Deck	PEN	Penetration		
EOS	Edge of Slab	PERM	Permanent		
EQ	Equal	PERP	Perpendicular		
EQUIP.	Equipment	PIF	Pressure Injected Footing		
EW	Each Way				
EXIST.	Existing	PL	Plate		
EXP	Expansion	PLBG	Plumbing		
EXP ANC	Expansion Anchor	PLF	Pounds Per Lineal Foot		
EXT	Exterior	PNEU	Pneumatic		
EXTN	Extension	PREFAB	Prefabricated		
		PRELIM	Preliminary		
F TO F	Face To Face	PROJ	Projection		
F°	Degree Fahrenheit	PSF	Pounds Per Square Foot		
FABR	Fabricator	PSI	Pounds Per Square Inch		
FAS	Fastener	PT	Post-Tension		
FD	Floor Drain				
FDN	Foundation	R	Radius		
FF	Finished Floor	RCP	Reinforced Conc Pipe		
FIN.	Finish (ed)	RD	Roof Drain		
FLG	Flange	REF	Reference		
FLR	Floor	REINF	Reinforcing		
FOS	Face To Stud	REQD	Required		
FRMG	Framing	RF	Roof		
FS	Far Side	RIS	Riser		
FT	Foot	RM	Room		
FTG	Footing	RND	Round		
FV	Field Verify	RTU	Roof Top Unit		

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