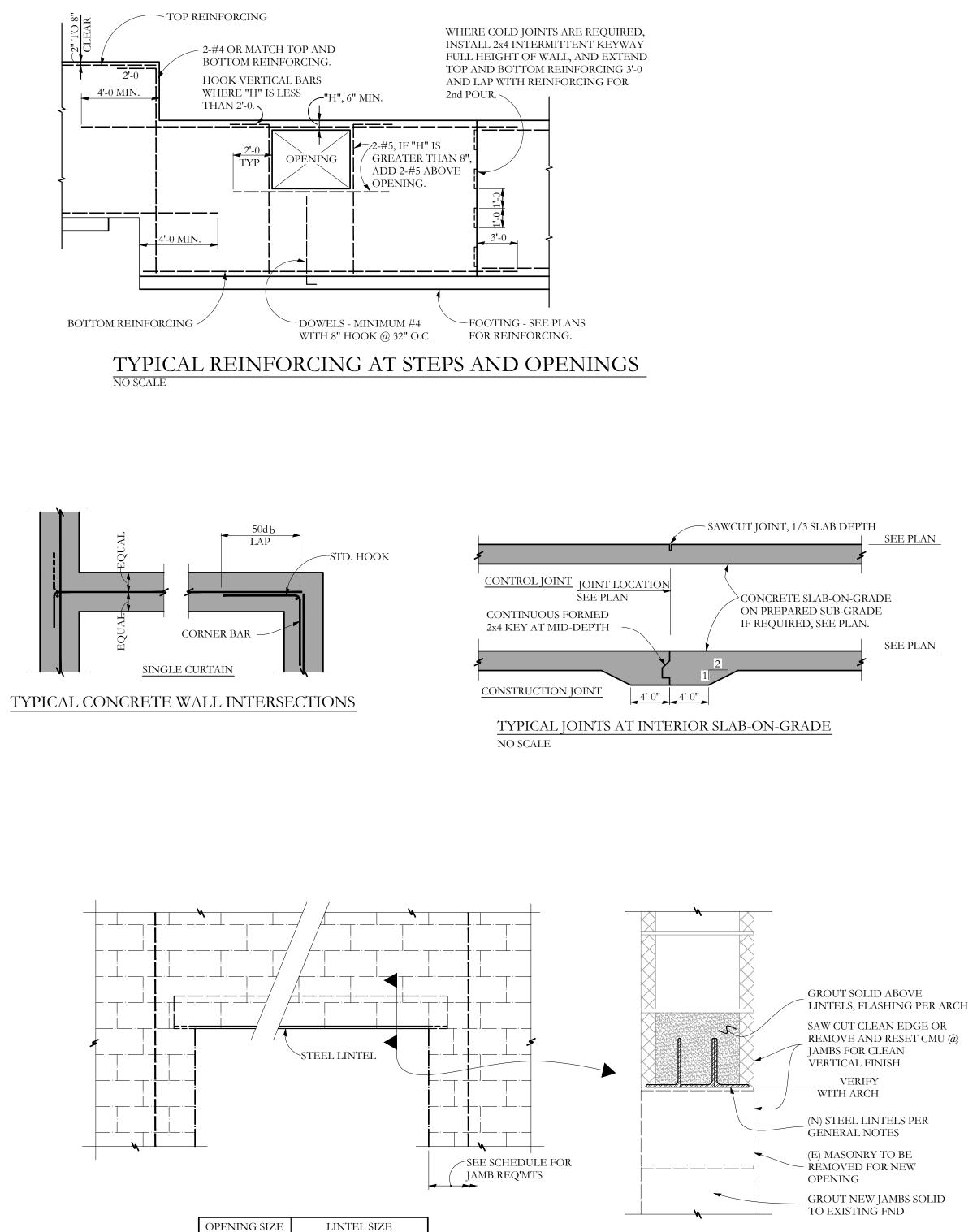
		<u>G</u>	ENERAL S	TRUCTURAL NOTES			
DI	ESIGN LIVE LOAD	<u>S:</u>	2009 IBC, M	IUEBC			
*	Snow		50 psf				
*	Wind		100 mp	h, exp B, 3 second gust			
*	Floor		40 psf/	100psf			
FC	DUNDATION:						
*	Footings shall be pla- engineer.	ced on undi	sturbed natur	ral soil or compacted fill tested and approved by soils			
*	0	essure = 1,5	500 psf. Bear	on soil approved by the Soils Engineertyp			
<u>FC</u>	DUNDATION WAL						
*	Design lateral soil pro			pressure):			
	Walls:	50 pcf.					
*				ranular material except the top two feet.			
*	Provide perimeter drain system with invert minimum of 6" below bottom of basement slab. Extend perimeter drain to daylight or to sump.						
*							
*	Slope perimeter grad Place concrete contir			al cold joints			
	Flace concrete contin	iuousiy with	out nonzont	ai cold joints.			
	DNCRETE AND RE						
*	Concrete shall conform to applicable provisions of ACI-301 and 318.						
	Minimum 28 day cor as follows:	-	0 1 1				
	Footings :	4,000	psi w/	4-6% air entrainment			
	Foundation Walls:	4,000	psi w/4	4-6% air entrainment			
	Interior Slabs:	3,500	psi w/f	ībermesh			
	Exterior Slabs:	4,000	psi w/4	I-6% air entrainment and fiber mesh			
*	Cement Type: I/II		_				
*	Deformed reinforcer	nent: ASTN	A A615 grade	e 60, except bars specified to be field-bent, stirrups, and tie			
	which shall be grade	40.					
*				lated fibers as manufactured by Fibremesh Co. per ASTM			
	1116 type 111 4.1.3 a	ind ASTM (	C-1116 perfo	rmance level one, 1.5 lb. per cubic yard.			
*	Welded Wire Fabric						
*		undation rei	nforcing: 2 #	<sup>4</sup> 4 top and bottom, (except as noted) continuous at			
*	corners and steps.	1 (1)					
15				per ACI Manual of Standard Practice (ACI-315). At splice			
*	lap bars 50 diameters unless noted otherwise. Minimum 2 #4 around all four sides of all openings, extend min. 2'-0 beyond openings.						
*							
	earth. See also drawi		$1^{-1}$ for co	oncrete placed against forms; 3" for concrete placed agains			
*			on hars at mi	d span and hottom hars over supports			
*	In continuous members, splice top bars at mid span and bottom bars over supports. Keep reinforcement clean and free of dirt, oil, and scale. Oil forms prior to placing reinforcement.						
ST	RUCTURAL STEEI	L:					
			ASTM	A36			
ж	Angles, misc.:						
* *	Angles, misc.: W shapes		ASTM	A992			
	Angles, misc.: W shapes HSS						

\* Expansion Anchors shall be ICC-ES approved, installed in accordance with manufacturers specifications. In concrete: Wedge Type

- STRUCTURAL ERECTION AND BRACING REQUIREMENTS
  \* The structural drawings illustrate the completed structure with all elements in their final positions, properly supported and braced. The contractor, in the proper sequence, shall provide proper shoring and bracing as may be required to achieve the final completed structure.
  \* These plans have been engineered for construction at one specific building site. Builder assumes <u>ALL</u> responsibility for use of these plans at <u>Any Other</u> building site. Plans shall not be used for construction at any other building site without specific review by the engineer.
  \* Observations of foundation reinforcing or framing required by the owner, lender, insurer, building department or any other party will be accomplished by the engineer at the owner's expense. At least 24 hours advance notice is requested.
- requested. \* All slabs on grade shall be separated from adjacent structural and finish elements to allow free movement of the slab, unless specifically shown and noted otherwise.



\* Minimum lintel except as noted, one angle for each 4" of wall thickness to bear 6" each end TYPICAL LOOSE LINTEL INSTALLATION NO SCALE

L 3-1/2" x 3-1/2" x 1/4"

L 5" x 3-1/2" x 1/4" L 6" x 3-1/2" x 5/16"

L 7" x 4" x 3/8"

LESS THAN 4'-0

4'-0" TO 5'-4"

5'-5" TO 6'-6"

6'-7" TO 10'-6"

			ABBREVIA	ΓΙΟΝ	S KEY		
AB	Anchor Rod (Bolt)	EF	Each Face	MACH	Machine	SC	Slip Critical
ADDL	Additional	EJ	Expansion Joint	MASY	Masonry	SCH	Schedule
ADJ	Adjustable	ELEV	Elevation	MATL	Material	SDST	Self Drilling Self Tappin
AFF	Above Finished Floor	ELEC	Electric (Electrical)	MAX	Maximum	SECT	Section
ALT	Alternate	ENGR	Engineer	MB	Machine bolt	SF	Square Feet
AMT	Amount	EQ	Equal	MECH	Mechanical	SHT	Sheet
ANCH	Anchor, Anchorage	EQUIP	Equipment	MEZZ	Mezzanine	SHTG	Sheathing
APPROX	Approximate	EQUIV	Equivalent	MFR	Manufacture, -er, -ed	SIM	Similar
ARCH	Architect, -ural	ES	Each Side	MIN	Minimum	SLH	Short Leg Horizontal
ATR	All Thread Rod	EST	Estimate	ML	Microllam	SLV	Short Leg Vertical
AVG	Average	E-W	East to West		(Trus-joist brand LVL)	SOG	Slab on Grade
BC	Bottom of Concrete	EXC	Excavate	MO	Masonry Opening	SP	Spaces
BL	Brick Ledge	EXP	Expansion	MTL	Metal	SPEC	Specifications
BLK	Block	EXT	Exterior	NF	Near Face	SQ	Square
BLKG	Blocking	FND	Foundation	NIC	Not In Contract	ST	Snug Tight
BM	Beam	FF	Far Face, Finished Floor	NS	Near Side	STD	Standard
BOT	Bottom	F-F	Face to Face	N-S	North to South	STIFF	Stiffener
BRG	Bearing	FIG	Figure	NTS	Not to Scale	STL	Steel
BW	Bottom of Wall	FL	Flush	OCJ	OSHA Column Joist	STRUCT	Structure, -al
CB	Counterbore	FLG	Flange	OD	Outside Diameter	SUPT	Support
CF	Cubic Foot	FLR	Floor	OF	Outside Face	SY	Square Yard
CG	Center of Gravity	FO	Face of	OH	Opposite Hand	SYM	Symmetrical
CIP	Cast in Place	FP	Full Penetration	OPNG	Opening	T&B	Top and Bottom
CJ	Construction Joint	FS	Far Side	OPP	Opposite	T&G	Tongue and Groove
	(Control Joint)	FTG	Footing	OSB	Oriented Strand Board	TB	Top of Beam
CLG	Ceiling	GA	Gage (Gauge)	PAF	Powder Actuated Fast'nr	TC	Top of Concrete
CLR	Clear	GALV	Galvanized	PC	Precast	TD	Top of Deck
СМ	Construction Manager	GC	General Contractor	PCF	Pounds Per Cubic Foot	THD	Thread
	(Management)	GEN	General	PEN	Penetration	THK	Thick, -ness
CMU	Concrete Masonry Unit	GL	Glue laminated (Glulam)	PERP	Perpendicular	TJ	Top of Joist
COL	Column	GND	Ground	PL	Property Line	TL	Total Load
COM	Common	GR	Grade	PLF	Pounds per Linear Foot	TPG	Topping
COMB	Combination	GT	Girder Truss	PNL	Panel	TRANS	Transverse
CONC	Concrete		Gypsum Board	PP	Panel Point	TW	Top of Wall
CONN	Connection	HAS	Headed Anchor Stud	PS	Prestressed	ТҮР	Typical
CONT	Continue (Continuous)	HORIZ	Horizontal	PSF	Pounds per Square Foot	ULT	Ultimate
COORD	Coordinate, -tion	HT	Height	PSI	Pounds per Square Inch	UNO	Unless Noted Otherwi
CS	Countersink	ID	Inside Diameter	PSL	Parallel Strand Lumber (generic term)	VERT	Vertical
CTR	Center	IF	Inside Face		,	VIF	Verify in Field
CY	Cubic Yard	INT	Interior (Intermediate)	PT (1)	Post Tensioned	WA	Wedge Anchor
DAB	Deformed Anchor Bar	JB	Joist Bearing	PT (2)	Pressure Treated	WP	Work Point
DET	Detail	JST	Joist	PTN	Partition	WT	Weight
DEV	Develop	JT	Joint	PWD	Plywood	WWF	Welded Wire Fabric
DIAG	Diagonal	K	Kip (1,000 lbs.)	QTY	Quantity	XS	Extra Strong
DIM	Dimension	LD	Load	R	Radius	XSECT	Cross-section
DL	Dead Load	LL	Live Load	RE	Reference (refer to)	XXS	Double Extra Strong
DN DP	Down		Long Leg Horizontal	RECT	Rectangle	(F)	Existing
DP	Drilled Pier	LLV	Long Leg Vertical	REINF	Reinforce, -ed, -ing	(E)	New
DT	Double Tee	LOC	Location	REQ	Required Requirement	(N) (R)	New Remove
DWG	Drawing	LSL	Laminated Strand Lumber (generic term)	REQMI	Retaining		Kentove
DWL	Dowel		,		Ŭ		
EA	Each	LT	Light	RM	Room		
ECC	Eccentric	LVL	Laminated Veneer Lumber (generic term)	RMO	Rough Masonry Opening		

Structural Drawing Index				
S1-0	General Notes, Etc.			
S1-1	New Work Structural Plan			
S2-1	Plan Details			
S2-2	Plan Details / Sections			

SECTION

NO SCALE





