



Building Guide

ILLOWA Chapter of ICC



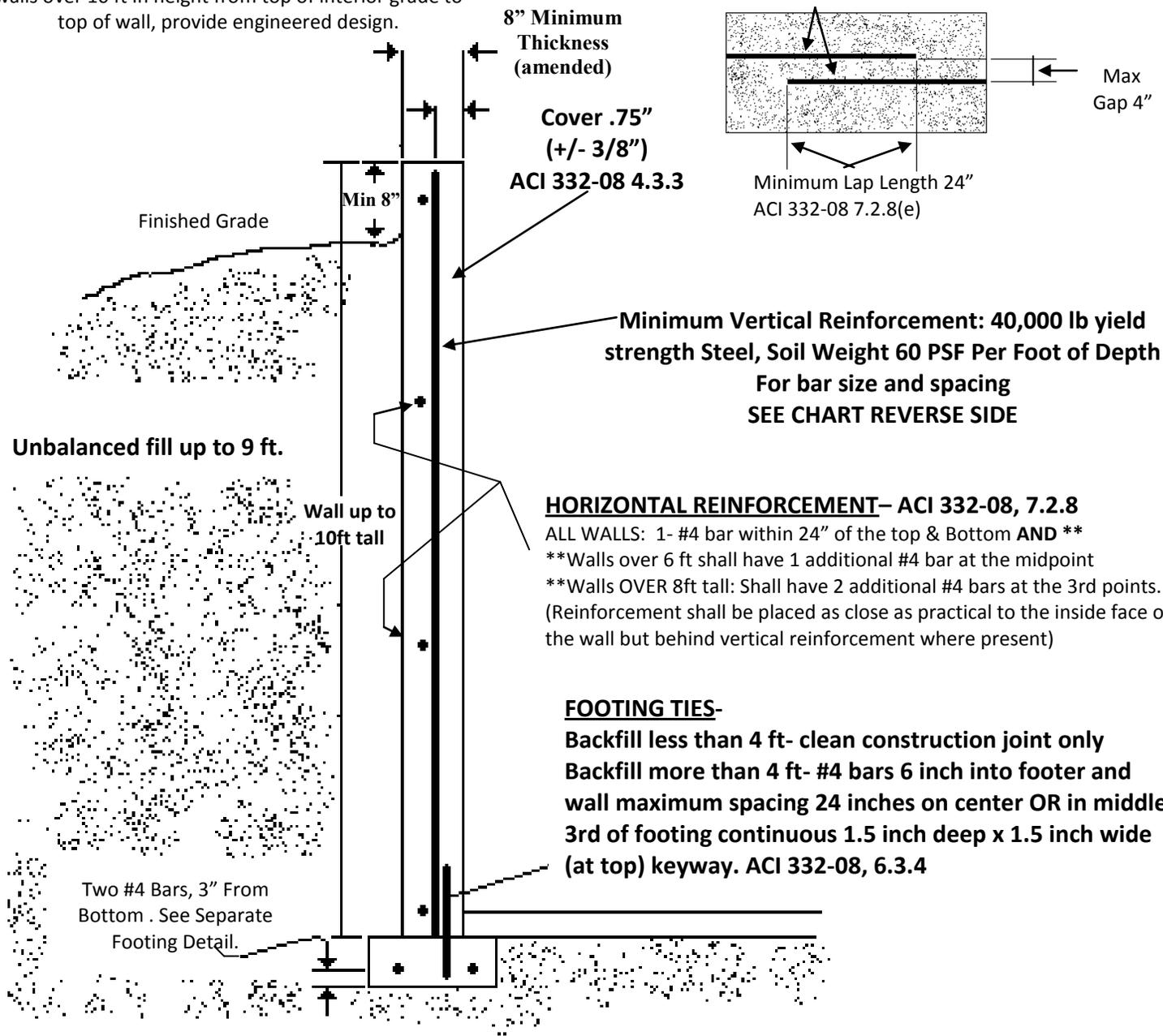
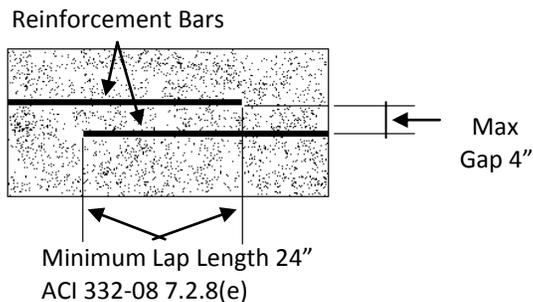
FOUNDATION WALL REINFORCEMENT

Foundation Walls supporting light frame construction ONLY, Concrete compressive strength 3500 lb @28 days

ILLOWA Figure 404.1.3.1 (c)

Note: Wall must extend 8" above finished Grade. For walls over 10 ft in height from top of interior grade to top of wall, provide engineered design.

HORIZONTAL WALL SPLICE DETAIL



Foundation Walls retaining 4 ft or more of unbalanced load
MUST be laterally supported prior to backfilling!
IRC Table 404.1.2 (2) through table R404.1.(8), see footnotes

DISCLAIMER: ILLOWA Chapter of the ICC has created this handout to assist with plans submittal under the 2009 International Residential Code, and it is not intended to cover all circumstances. Please check with the Department of Building Safety for additional requirements.

ACI 332-08, Table A.5
Minimum Vertical Reinforcement
Soil Weight: 60 PSF per Foot of Depth

Unsupported Wall Height	Unbalanced Backfill, Up to:	8 Inch thick Wall (as amended) Grade 40	9.5 Inch thick Wall Grade 40	11.5 Inch Thick Wall Grade 40
Up to 8'	6'	Plain Concrete	Plain Concrete	Plain Concrete
	7'	#4 @ 14" #5 @ 22" #6 @ 31"	"	"
			"	"
9'	6'	Plain Concrete	Plain Concrete	Plain Concrete
	7'	#4 @ 13" #5 @ 20" #6 @ 28"	"	"
			"	"
	8'	#4 @ 10" #5 @ 15" #6 @ 21"	"	"
			"	"
			"	"
10'	6'	Plain Concrete	Plain Concrete	Plain Concrete
	7'	#4 @ 12" #5 @ 18" #6 @ 26"	"	"
			"	"
	8'	#4 @ 9" #5 @ 14" #6 @ 19"	#4 @ 12" #5 @ 18" #6 @ 25"	"
				"
	9'	#4 @ 7" #5 @ 11" #6 @ 15"	#4 @ 9" #5 @ 14" #6 @ 20"	"
				"
				"
				"