



ALT. WALL SECTION
CLIMATE ZONE 5 (EQUIVALENT TO R-10)
IRC-N 1021 FOOTNOTE 6

SUPPORTING LIGHT FRAME	MINIMUM WIDTH OF PERIMETER FOOTINGS (INCHES)		
	1500 PSF	2000 PSF	3000 PSF
ROOF ONLY	12	12	12
1 FLOOR & ROOF	16	12	12
2 FLOORS & ROOF	24	16	12
SUPPORTING LIGHT FRAME W/ 4" BRICK VENEER	SOIL BEARING CAPACITY		
	1500 PSF	2000 PSF	3000 PSF
ROOF ONLY	14	14	14
1 FLOOR & ROOF	21	16	14
2 FLOORS & ROOF	32	24	16

NOTE: MINIMUM FOOTING THICKNESS SHALL BE 8 INCHES, 12" WITH FOOTING OVER 24" WIDE

MAXIMUM WALL HEIGHT (FEET)	MAXIMUM UNBALANCED BACKFILL HEIGHT (FEET)	MINIMUM FOUNDATION WALL THICKNESS AND REINFORCING - ACI-302-04					
		SOIL CLASSES AND DESIGN LATERAL SOIL (PSF PER FOOT OF DEPTH)		SOIL BEARING CAPACITY			
		GM, GP, SM AND SP 30	GM, GC, SM, SH-SC AND MH 45	SC, M-CI, AND INORGANIC CL 60	1500 PSF	2000 PSF	3000 PSF
8	6	8"	10"	8"	10"	8"	10"
	7	PC	PC	PC	PC	#6@24"	PC
9	7	PC	PC	PC	PC	#6@24"	PC
	8	PC	PC	#6@24"	#6@24"	#6@24"	PC
10	8	#5@30"	PC	#6@41"	#6@41"	#6@24"	#6@45"
	9	#6@41"	#6@41"	#6@37"	#6@22"	#6@37"	#6@41"

* REINFORCING MAY BE OMITTED IF CONCRETE COMPRESSIVE STRENGTH IS INCREASED TO 3500PSI.

- 1. MINIMUM 10" WALL THICKNESS REQUIRED WITH BRICK VENEER.
- 2. PC = PLAN IN-REINFORCED CONCRETE WALL.
- 3. CONCRETE SHALL BE MINIMUM 3000 PSI, AIR ENTRAINED.
- 4. REINFORCING TO BE MINIMUM 40 KSI PLACED 1 1/2" FROM INSIDE WALL FACE.
- 5. FOR GRAVEL SPACE CONDITIONS 6" PC MAX HEIGHT OF 6' W/ 4" OF BACKFILL (ALL SOILS)

PLAN KEY	MAX. VERT. LOAD (POUNDS)	MAX. COL. HEIGHT (INCHES)	COLUMN SIZE	FOOTING SIZE (INCHES)		
				1500 PSF SOIL	2000 PSF SOIL	3000 PSF SOIL
▲	15,000	100	3" 11ga.	36x36x12	32x32x14	26x26x12
▲	21,500	100	3 1/2" 11 ga.	42x42x20	36x36x16	30x30x12
▲	32,400	100	4" 11ga.	48x48x22	40x40x18	33x33x16
			3" SCH 40	36x36x26	50x50x24	40x40x18

FOOTING SIZES ARE BASED ON PLAIN CONCRETE, DEPTHS MAY BE REDUCED TO 12 INCHES BY USING #5 BARS AT 8" O.C. EACH MAY 3" FROM BOTTOM.

NOTE: FOR PRINCE GEORGE COUNTY, MD. SEE SHEET PG-11
FOUNDATION DESIGN CRITERIA
NOTE: DESIGN CRITERIA AND DETAILS ARE BASED ON IRC VALUES - LOCAL BUILDING OFFICIAL MAY PERMIT LESS RESTRICTIVE METHODS AND/OR PROCEDURES BASED ON LOCAL CONDITIONS AND EXPERIENCE.

PROFESSIONAL CERTIFICATION: I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A DULY LICENSED ARCHITECT UNDER THE LAW OF THE STATE OF MARYLAND, LICENSE # 3367-R, EXPIRATION DATE 10/7/09

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CONSTRUCTION DOCS NOV 4, 08

REVISIONS	
date	remarks

drawn by TRM checked by ddt
scale NOTED date 8-28-08

PROJECT TITLE
MICHAEL HOMES LLC
STEDMAN RESIDENCE

CONTENT
WALL SECTIONS
2006IRC

PROJECT NUMBER 2405 DRAWING NUMBER AD-1