

RESIDENTIAL ENGINEERING SERVICES, LLC INSPECTIONS · CONSULTING · ENVIRONMENTAL

May 21, 2018

Summit Homes 120 SE 30th St Lees Summit, MO

RE: Subgrade Inspection for Lot # 49 1801 SW Merryman Dr Lee's Summit, MO 64082 - Permit# PRRES20190447

On May 20, 2018, a special inspection was performed by Residential Engineering Services, LLC (R.E.S.) at the above referenced property. The purpose of this inspection was to determine structural adequacy of the existing soil for construction of concrete foundation.

- Subgrade was excavated to footing elevation at time of inspection.
- The soils observed were a slightly soft medium brown sitty clay. Probes of soil indicated to be less than 2000 PSF bearing capacity
- RES recommends that the footings be enlarged to 24"X8" with three (3) #4 rebar continuous (see attached specifications)
- Basement and garage pier pads shall be enlarged a minimum of 6" each way (i.e existing 30"x30" shall be enlarged to 36"x36", etc.) (see attached specifications)

We would like to thank you for the opportunity to consult you on your project. Please feel free to contact us if you have any questions regarding this report or need any further consultation.

Sincerely,

Bradley Huxol, PE

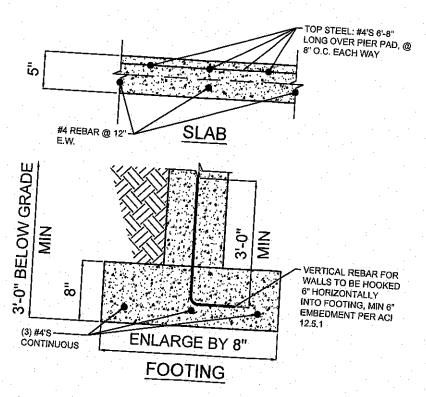
NOTE:

MAXIMUM 9'-0" WALL HEIGHT USE REBAR AS SHOWN ON

DRAWING OR XX LB/YD3 HELIX 5-25 DESIGNED IN ACCORDANCE WITH UNIFORM-ES ER-0279

	ALTERN	ATIVE PIER PAI	D SCHEDULE	
PAD SIZE	ADJUSTED PAD SIZE	REINFORCEMENT	T	
30′x30′x12°	36"x36"x12"	(6) #4 BAR E.W.	SLAB TOP STEEL	HELIX DOSAGE
36"x36"x12"		(O) IN DAR C.VV.	(4)#4 BAR E.W.	11.5 LB/CUBIC YAR
	42"x42"x14"	(7) #4 BAR E.W.	(5) #4 BAR E.W.	11 E I D(01) D D
42"x42"x14"	48"x48"x16"	(8) #4 BAR E.W.	(6) 44 747	11,5 LB/CUBIC YAR
48"x48"x16"	54"x54"x16"	(0) #4 747	(6) #4 BAR E.W.	11.5 LB/CUBIC YAR
54"x54"x16"	╅╾╼╼╅	(9) #4 BAR E.W.	(6) #4 BAR E.W.	11.5 LB/CUBIC YARD
	60"x60"x16"	(10) #4 BAR E.W.	(7) #4 BAR E.W.	11.5 LB/CUBIC YARD

NOTE: PIER PAD SCHEDULE HAS BEEN INCREASED WITH THE USE OF THIS SPREAD FOOTING DETAIL. TABLE IS BASED ON RES SPECIFICATION REFERENCES AND MAY NOT DIRECTLY TRANSLATE TO PLANS ENGINEERED BY OTHER FIRMS. REFER TO SITE SPECIFIC DESIGN FOR PIER PAD SIZES.



ALTERNATIVE HELIX OPTION:

- SLAB HELIX DOSAGE = 12.5 LB/YD³ FOOTING HELIX DOSAGE = 11.5 LB/YD³
- PIER PAD HELIX DOSAGE = 11.5 LB/YD®
- HORIZONTAL REBAR IS NOT REQUIRED IN FOOTINGS FOR HELIX.
- SLAB ONLY REQUIRES TOP STEEL REBAR OVER PIER PADS FOR HELIX.
 VERTICAL REBAR IN WALL IS STILL REQUIRED. HOOK REBAR 6"
- HORIZONTALLY INTO FOOTING @ 24" O.C.

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SPREAD FOOTING **DETAIL** N.T.S.

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