

REPORT OF OBSERVATION AND EVALUATION

Report for: Challeco / Shylly Seller Buyer

Address: 8303 Old US 421
LILLINGTON, NC

Tel: _____

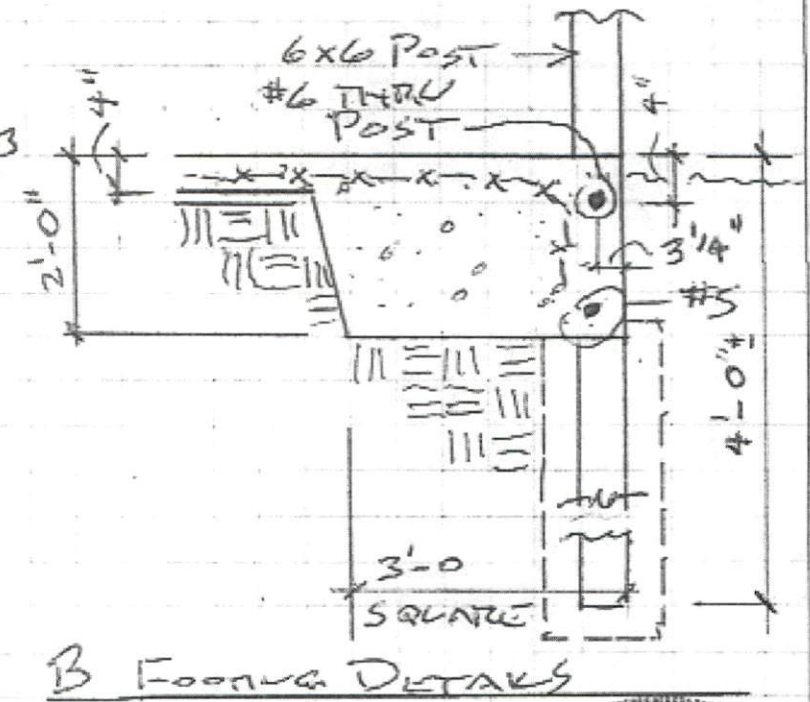
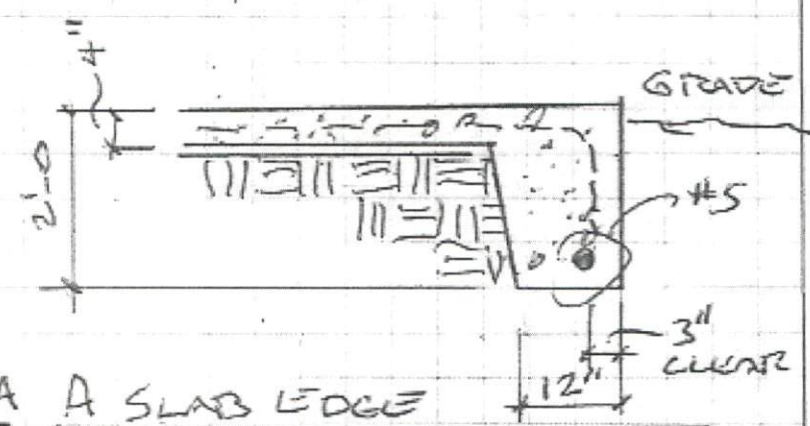
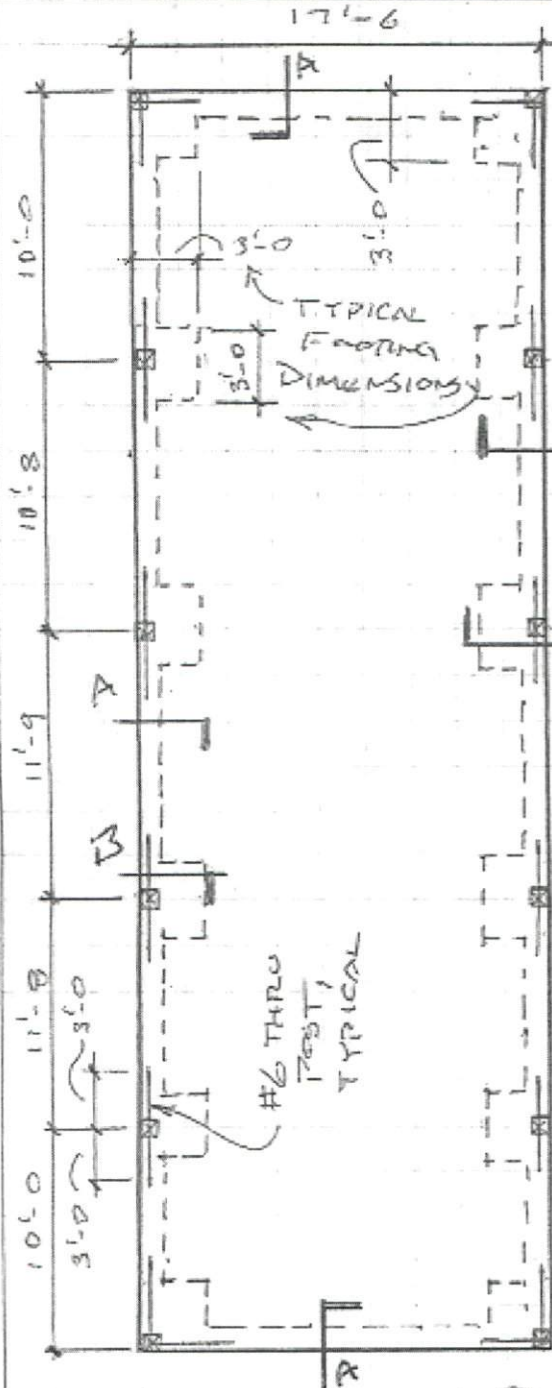
Representative: _____

Tel: _____

Gregory A. Robinson, PE
6512 Six Forks Road, Suite 403A
Raleigh, NC 27615

919.846.4752 info@gar-pe.com

Date: 02AUG19 GARPE# _____



FOUNDATION PLAN



Accepted by: _____

Copies to: _____

[Signature]
02AUG19
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REPORT OF OBSERVATION AND EVALUATION

Report for: Callaway / Sky King Seller Buyer

Address: 3308 OLD US 421
LIVINGTON, NC

Representative:

Gregory A. Robinson, PE
6512 Six Forks Road, Suite 403A
Raleigh, NC 27615

919.846.4752 fax 919.847.0455

Telephone:

Date: 02 AUG 19 GARPE#

GENERAL NOTES AND OUTLINE SPECIFICATIONS

01000 GENERAL

1. Design Live Loads
 - Floor 40 psf
 - Roof 20 psf
2. Roof Snow Loads (2018 NC Residential Code, 2015 IRC, ASCE 7-10)
Ground Snow Load: 15 psf
3. Wind loads (2018 NC Residential Code, 2015 IRC, ASCE 7-10)
Ultimate Wind Velocity: 115 mph; Exposure: B Ex B
4. Contractor shall verify all dimensions, elevations and existing conditions before proceeding with construction.
5. Structural framing shall be braced until erection is complete and permanent connections, bracing members and shear walls are installed.
6. All safety and OSHA regulations shall be followed strictly. Methods of construction and erection of structural material are the Contractor's responsibility.
7. The Contractor shall be responsible for all payments to and coordination of Sub-contractors and suppliers as required to maintain orderly progress of the work and timely completion of the work.
8. Conform to applicable codes for removal and disposal of debris, dust control, and disconnection of electrical equipment.
9. Shoring is not included and shall be the responsibility of the contractor.
10. Cease work immediately if structure appears to be in danger and notify the Owner. Do not resume work until directed.
11. Remove temporary work.

02000 FOUNDATION

1. Design soil bearing capacity: 2,000 psf (presumed).
2. Contractor shall provide well-braced shoring at excavations near existing buildings and construction to prevent settlement and cave-ins.

03000 CONCRETE

1. Proportion concrete mixes to provide normal weight (145 pcf) concrete with the following properties:

Element	Slump (in.)	Air (%)	w/c ratio	Compressive strength at 28 days	Max. aggregate size (in.)
Footings, foundation walls	3-4	4-8	0.55	3,500 psi	1-1/2
Slab on grade	3-4	4-8	0.50	4,000 psi	1-1/2
2. Reinforcing bars shall be rolled from new billet steel conforming to ASTM A 615, and shall be Grade 60.
3. Clear distance from face of concrete to main reinforcing: Footings, walls cast against earth 3" UON
4. Lap all reinforcing splices at least 50 bar diameters (18" minimum) unless otherwise noted.

~~04000 STRUCTURAL STEEL~~

1. ~~Structural steel shall conform to ASTM A 992 or ASTM A 36 except round pipe columns shall be ASTM A 53, Types E or S, Grade B; square and rectangular tubes shall be ASTM A 500, GR B.~~
2. ~~Design, fabrication, erection and workmanship shall conform to "Specification for the Design, Fabrication and Erection of Structural Steel for Building", AISC Ninth Edition.~~
3. ~~Anchor bolts shall conform to ASTM A 307 and lengths shown on drawings shall include hooks of not less than 3" in length.~~
4. ~~Adhesive anchors shall consist of all-thread anchor rod, nut, washer and adhesive capsule. Anchor rods shall conform to ASTM A 307. Adhesive shall be a two part, unmixed resin and hardener adhesive capsule or forming a rapid-setting resinous mortar.~~

06110 WOOD FRAMING AND PLYWOOD

1. Lumber materials shall be grade-stamped and conform to the requirements of the Southern Pine Inspection Bureau (SPIB) Western Wood Products Association (WWPA).
2. Framing shall be kiln-dried, Southern Pine species S-P-F, #2 grade, surfaced dry, 19-15 percent maximum moisture content.
3. Nailing for wood construction shall be in accordance with the applicable building code fastening schedule unless otherwise noted on the plans.
4. Nails, screws, bolts, washers, nuts and hardware shall be zinc electroplated steel. Provide washers between all bolt heads and wood and between all nuts and wood. Connection bolts shall conform to ASTM A 307.
5. Set structural members level and plumb, in correct position.
6. Plywood for sheathing shall conform to the grading rules of U.S. Product Standard PS 1, latest edition, and bear the appropriate grade mark of an American Plywood Association approved agency on each plywood panel. Sheathing shall be APA rated sheathing in thicknesses and span rating shown on drawings. Sheathing shall be applied in full sheets or in largest pieces practical for the area being covered.
7. Heavy timber wood framing shall be kiln dried No. 2 Post and Timber Southern Pine conforming to Southern Pine Inspection Bureau grading rules, surfaced dry; used at 19% maximum moisture content (or better) in sizes shown on the drawings. Each piece shall be grade-stamped.

06171 LAMINATED VENEER LUMBER

1. Laminated veneer lumber (LVL) members shall be furnished as shown on the plans. Sizes shown on plans are actual sizes (width x height) in inches.
2. Laminated veneer lumber (LVL) members shall conform to the following minimum design values:

F _b (Bending)	2,600 psi
F _c (Compression Parallel to Grain)	3,000 psi
F _v (Horizontal Shear)	280 psi



Accepted by:

Copies to:

[Signature]
02AUG19