GENERAL NOTES:

1. NOTES AND DETAILS ON DRAWINGS SHALL TAKE PRECEDENCE OVER THESE GENERAL NOTES.

2. THE DESIGN ADEQUACY AND SAFETY OF ERECTION BRACING, SHORING, TEMPORARY SUPPORTS, ETC ., IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR, AND HAS NOT BEEN CONSIDERED BY THE STRUCTURAL ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE PRIOR TO THE APPLICATION OF ROOF DIAPHRAGMS AND FINISH MATERIALS. HE SHALL PROVIDE THE NECESSARY BRACING TO PROVIDE STABILITY PRIOR TO THE APPLICATION OF THE AFOREMENTIONED MATERIALS.

3. REFER TO PROJECT SPECIFICATIONS FOR MATERIAL SPECIFICATIONS AND PERFORMANCE REQUIREMENTS NOT COVERED BY THE STRUCTURAL DRAWINGS.

4. ALL DETAILS, SECTIONS AND NOTES SHOWN ON THE DRAWINGS ARE INTENDED TO BE TYPICAL AND SHALL APPLY TO SIMILAR CONDITIONS UNLESS OTHERWISE NOTED.

5. REFER TO DRAWINGS OF OTHER SECTIONS FOR ALL NON-STRUCTURAL INFORMATION INCLUDING EXACT LOCATION OF DOORS, NONBEARING WALLS, PIPES, CONDUITS, DEPRESSIONS, DRAINS, INSULATION, FINISHES, ETC.

6. NO CONCRETE WORK SHALL BE PERFORMED DURING HEAVY RAIN, SNOW, OR HAIL, OR WHEN THE TEMPERATURE OF THE OUTSIDE AIR IS BELOW 40°F UNLESS APPROVED METHODS ARE USED TO PREVENT FREEZING OF CONCRETE. SUCH METHODS SHALL PREVENT THE MATERIALS FROM FREEZING FOR AT LEAST 48 HOURS. ALL MATERIALS USED AND MATERIALS BUILT UPON SHALL BE FREE FROM ICE AND SNOW: ALL MATERIALS ALLOWED TO FREEZE SHALL BE REMOVED AND REPLACED WITH NEW WORK ALL AT THE EXPENSE OF THE CONTRACTOR.

   CONSTRUCTION JOINTS DESIGNATED TO HAVE ROUGHENED SURFACE SHALL BE PREPARED AS FOLLOWS: ALL OF THE CONSTRUCTION JOINT AREA EXCEPT 1" AROUND ALL EDGES SHALL BE ROUGHENED WITH A MIN. 1/8" WIDE x 1/8" DEEP GROOVE WITH A MINIMUM OF 1/2" CLEAR BETWEEN GROOVES. GROOVES SHALL BE MADE IN TWO DIRECTIONS THAT ARE AT RIGHT ANGLES TO EACH OTHER.

FOUNDATION NOTES:

1. ALL FOOTINGS SHALL BE COMPLETELY FREE OF ANY LOOSE DIRT AND DEBRIS PRIOR TO PLACEMENT OF ANY CONCRETE.

2. ALL REINFORCING STEEL SHALL BE TIED AND SUPPORTED IN SUCH A MANNER TO INSURE THEY MAINTAIN THEIR PROPER LOCATION DURING THE PLACING OF THE CONCRETE. REINFORCING STEEL SHALL BE SUPPORTED ON APPROVED METAL CHAIRS OR BY SUSPENDING FROM ABOVE WITH ADEQUATE TIE WIRES DURING PLACEMENT OF CONCRETE. NO STEEL BARS DRIVEN INTO THE GROUND OR CONCRETE BRICKS WILL BE ALLOWED FOR SUPPORT OF THE REINFORCING STEEL.

3. THERE SHALL BE A VIBRATOR IN USE BY A QUALIFIED OPERATOR DURING THE PLACEMENT OF ALL CONCRETE. FAILURE TO USE A VIBRATOR BY A PERSON EXPERIENCED IN THE OPERATION THERE OF WILL BE CAUSE FOR REFUSAL TO ALLOW ANY CONCRETE PLACEMENT.

4. IF THE CONTRACTOR PLANS TO POUR THE GRADE BEAMS IN PHASES HE MUST SUBMIT A PLAN OF THE PHASES TO THE ENGINEER FOR APPROVAL PRIOR TO STARTING THE FOUNDATIONS. INCLUDED WITH THE PLAN SHALL BE DETAILS OF THE METHOD OF MAKING THE CONSTRUCTION JOINTS BETWEEN THE PHASES.

5. PROVIDE CORNER BARS IN BOTH FACES OF ALL GRADE BEAMS. NUMBER SIZE AND SPACING TO MATCH HORIZONTAL REINFORCEMENT WITH WHICH THEY LAP AND SHALL EXTEND 2'-6" IN EACH DIRECTION.

CONCRETE NOTES:

1. CONCRETE FOR FOOTINGS, SIDEWALKS, FLOOR SLAB & PADS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 4000 PSI, A MINIMUM SLUMP OF 2" AND A MAXIMUM SLUMP OF 4"

2. CONCRETE FOR WALLS AND ROOF STRUCTURE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 5000 PSI, A MINIMUM SLUMP OF 2 AND A MAXIMUM SLUMP OF 4". CONCRETE SHALL HAVE AIR ENTRAINMENT OF 5% ± 1%

3. CEMENT SHALL CONFORM TO A.S.T.M C-150M TYPE 1.

4. ALL #3 AND SMALLER REINFORCEMENT STEEL SHALL CONFORM TO A.S.T.M. A-615, GRADE 40 AND ALL #4 AND LARGER REINFORCEMENT STEEL SHALL CONFORM TO A.S.T.M. A-615, GRADE 60.

5. MINIMUM LAP FOR ALL REINFORCEMENT IS 30 BAR DIAMETERS BUT NOT LESS THAN 2'-0".

6. CONCRETE SHALL BE MIXED AND DELIVERED IN ACCORDANCE WITH A.S.T.M C-94.

7. BEFORE PLACEMENT OF CONCRETE, THE CONTRACTOR SHALL VERIFY PROPER PLACEMENT OF ALL ITEMS OF WORK WHICH ARE EMBEDDED IN THE CONCRETE.

8. THE CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 318 AND 347.

9. CONCRETE FINISHES AND CURING SHALL CONFORM TO THE PROJECT SPECIFICATIONS.

10. REFER TO MECHANICAL, ELECTRICAL, ARCHITECTURAL, ETC. DRAWINGS FOR LOCATIONS OF ALL PIPES, CONDUITS, ETC.

11. THE STRENGTH LEVEL OF THE CONCRETE WILL BE CONSIDERED SATISFACTORY IF THE AVERAGE OF THE STRENGTH TESTS OF A GIVEN AREA OR PANEL EQUALS OR EXCEEDS THE SPECIFIED STRENGTH AT 28 DAYS, WITH NO INDIVIDUAL STRENGH TEST OF SUCH AREA OR PANEL MORE THAN 5% BELOW THAT SPECIFIED. CONCRETE THAT DOES NOT MEET OR EXCEED THESE CRITERIA SHALL BE REMOVED BY THE CONTRACTOR AND BE REPLACED WITH CONCRETE, WHICH CONFORMS TO THESE CRITERIA, AT THE CONTRACTORS EXPENSE.

12. ALL CONCRETE CORNERS 10'-0" ABOVE F.F. ELEVATION SHALL BE 3/4" CHAMFERED AT CORNERS, UNLESS OTHERWISE NOTED ON PLANS. (DOES NOT APPLY TO CONCRETE FLOOR PLAN)

13. PROVIDE CORNER BARS IN CENTER OF ALL WALLS. NUMBER SIDE AND SPACING TO MATCH HORIZONTAL REINFORCEMENT WITH WHICH THEY LAP AND SHALL EXTEND 2'-6" IN EACH DIRECTION

14. ALL CONCRETE WALLS SHALL BE RUBBED SMOOTH AFTER STRIPPING FORMS BEFORE PAINTING. ALL CONCRETE FLOORS NEED TO BE TROWELED SMOOTH BEFORE PAINTING.

DESIGN SPECIFICATIONS

ACI 318-95 (ALTERNATE DESIGN METHOD)
ASCE 7-98 (MINIMUM DESIGN LOADS)

FOUNDATION PRESSURE

ASSUMED BEARING ALLOWABLE OF 2500 PSF.
CONTRACTOR SHALL FURNISH SOIL REPORT AS PER SPECIFICATION

DESIGN LOADS:

WIND LOAD : 250 MPH (3 SECOND PEAK GUST @ 33') EXPOSURE "C". I=1.15
IMPACT LOAD : BASED ON A 15lb MISSILE (A NOMINAL 2"x4" WOOD MEMBER) TRAVELING HORIZONTALLY AT 100 MPH OR VERTICALLY AT 67 MPH AND IMPACTING THE SURFACE @ 90°

ROOFING COLLATERAL ROOF D.L. : 6 psf
ROOF L.L. : 100 psf

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STRUCTURAL NOTES
NTS

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NO.	DESCRIPTION	DATE

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CHECKED : GLS
DATE : 1-19-17
JOB NO : 15-211
SHEET : S1

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