RFP: CC-21
AIRPORT HANGAR AT LOWCOUNTRY REGIONAL AIRPORT

RFP DUE: Monday, November 30, 2015 @ 11:00am

Addendum #1
This addendum is dated November 20, 2015
Project "C" Temporary Hanger
Lowcountry Regional Airport
537 Aviation Way, Walterboro, SC 39488

75'x100'x20' Pre-engineered Metal Building

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Design Basis:
- Building Code: IBC-2012 & ASCE-07
- Gravity Load: Weight of Structure
- Roof Live Load: 20 lbs. psf (tributary reduction allowed)
- Ground Snow Load: 5.0 lbs. psf
- Frost Depth: 6" below finish grade
- Collateral Load: 3 lbs.psf (HVAC, Lighting, etc.)
- Seismic: Use Group I, Importance Factor = 1.0
- Wind Load: Basic Wind Speed (3 second Gust) V=135 MPH
  Importance Factor = 1.0, Exposure C, Category II

Assumed minimum soil bearing capacity of 1500 lbs. psf

Important!
2 days before you dig
call South Carolina's Utility Protection service
Increase slab thickness to 12” around Hairpin

Hairpin (see Dwg F-2) - typical on all perimeter sidewalls & endwalls

Expansion Joints (see Dwg F-2)

Footing details and sizes on Dwg F-3

Not to Scale
1. CONCRETE REINFORCEMENT FOR SLABS ON GRADE SHALL BE SUPPORTED.

2. NO CUTTING OR WELDING OF REINFORCING BARS WILL BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

3. STEEL REINFORCEMENT SHALL NOT BE STRAIGHTENED OR BENT IN A MANNER THAT WILL WEAKEN THE MATERIAL.

4. NO HEATING OF BARS WILL BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.

5. PLACEMENT OF CONCRETE WILL BE PERMITTED.

6. D. WATER, ASTM C 94
   C. COARSE AGGREGATE, ASTM C 33
   B. FINE AGGREGATE, ASTM C 68
   A. CEMENT: ASTM C 150

7. A. PROVIDE CONTROL JOINTS IN SLABS ON GRADE AT A MAXIMUM SPACING OF 3'-0" O.C. UNLESS OTHERWISE SHOWN.

8. B. ALL CONCRETE, UNLESS OTHERWISE SPECIFIED, SHALL HAVE THE FOLLOWING
   MINIMUM CEMENT CONTENT
   MAXIMUM WATER TO CEMENT RATIO
   MINIMUM CEMENT SLUMP

9. C. PROVIDE CORNER BARS AT ALL WALL CORNERS TO MATCH HORIZONTAL REINFORCING, MINIMUM LAP JOINTS SEALED.

10. D. CONSTRUCT FORMWORK TO MAINTAIN TOLERANCES IN ACCORDANCE WITH ACI 301.

11. A. PROVIDE ADEQUATE BRACING TO ENSURE STABILITY OF FORMWORK LIKELY TO BE OVER STRESED BY CONSTRUCTION LOADS.

12. B. ALL CONCRETE FORMS, WALLS, COLUMNS, ETC. SHALL CONFORM TO ASTM 94, TYPE I, TYPE II, TYPE III, TYPE IV, TYPE V, PORTLAND TYPE, OR ASTM C 95, TYPE I, PORTLAND POZZOLAN CEMENT SHALL NOT EXCEED 2.5% BY WEIGHT, DIFFERENT CEMENTS SHALL NOT BE USED INTERCHANGEABLE IN THE SAME ELEMENT OR PORTION OF WORK, NO INDUSTRIAL SLAG WILL BE ALLOWED TO BE USED ANY CONCRETE MIX DESIGN.

13. A. AIR ENTRAPMENT, ASTM C 940
   B. CHEMICAL admixtures WHERE APPROVED BY THE ENGINEER SHALL CONFORM TO ASTM 88.
   C. NO CALCIUM CHLORIDE SHALL BE ADDED TO THE MIX WITHOUT PERMISSION FROM THE ENGINEER.

14. A. BONDING AGENTS, TWO COMPONENT EPOXY RESINS AS MFG. BY SGL.
   B. CORPOR. SOLDER, OR EQUAL.
   C. DEFORMED AND PLAIN BILLET STEEL BARS FOR CONCRETE REINFORCEMENT.

15. A. MIX ALL CONCRETE IN ACCORDANCE WITH ASTM C 94.
   B. ALL CONCRETE, UNLESS OTHERWISE SPECIFIED, SHALL HAVE THE FOLLOWING CHARACTERISTICS.
   1. ALL UNIIFIED CONCRETE (FRACTIONS)
      MINIMUM COMpressive STRENGTH AT 28 DAYS
      MAXIMUM WATER TO CEMENT RATIO
      MINIMUM CEMENT CONTENT
      MINIMUM CEMENT SLUMP

16. A. CONSTRUCT AND ERECT CONCRETE FORMWORK IN ACCORDANCE WITH ACI 301.
   B. CONSTRUCT FORMWORK TO MAINTAIN TOLERANCES IN ACCORDANCE WITH ACI 301.

17. A. DO NOT REMOVE FORMS AND SHORING UNTIL CONCRETE HAS SUFFICIENT STRENGTH TO SUPPORT ITS OWN WEIGHT AND CONSTRUCTION AND DESIGN LOADS THAT MAY BE IMPOSED UPON IT.

18. A. PROVIDE CONTROL JOINTS IN SLABS ON GRADE AT A MAXIMUM SPACING OF 2'-0" O.C. UNLESS OTHERWISE SHOWN, CONTROL JOINTS MAY BE SAW CUT USING A 1/8" THICK BLADE, CUTTING 1/4 INTO THE DEPTH OF THE SLAB THICKNESS.

19. A. VERTICAL BARS INCLUDING BONDED - DIAMETERS OF THE BAR.
   B. HORIZONTAL BARS IN WALLS - DIAMETERS OF THE BAR.
   C. PROVIDE CORNER BARS AT ALL WALL CORNERS TO MATCH HORIZONTAL REINFORCING, MINIMUM LAP OF DIAMETERS OF THE BAR.
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Type "A" Footing

- Finish Grade
- Hairpin
- 1/2" Expansion Joint
- 4" min.
- 6 #5 rebar vertical
- 3" typ.
- 5 #5 rebar both ways
- Top of Slab
- Thicken slab to 12" at hairpins

Type "B" Footing

- Finish Grade
- Hairpin
- 1/2" Expansion Joint
- 4" min.
- 6 #5 rebar vertical
- 3" typ.
- 5 #5 rebar both ways
- Top of Slab
- Thicken slab to 12" at hairpins

Type "C" Footing

- Finish Grade
- Hairpin
- 1/2" Expansion Joint
- 4" min.
- 6 #5 rebar vertical
- 3"
- 10 #5 rebar both ways
- Top of Slab
- Thicken slab to 12" at hairpins

Type "D" Footing

- Finish Grade
- Hairpin
- 1/2" Expansion Joint
- 4" min.
- 6 #5 rebar vertical
- 3" typ.
- 5 #5 rebar both ways
- Top of Slab
- Thicken slab to 12" at hairpins

Not to Scale

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