GENERAL NOTES

1. **GENERAL DESIGN CRITERIA AND CODE INFORMATION:**

   A. The construction of this structure shall conform to the IBC 2006.

   B. The design of the Tower Structure is the sole responsibility of the Tower manufacturer. The Tower drawings shall be stamped by a Registered Engineer in the State of Tennessee.

   C. The foundation is designed per the loads from the tower engineer as shown in the tower drawings.

   D. The overall stability of the tower structure is the responsibility of the Tower Engineer/ Manufacturer. The structural drawings show only the foundation design.

   E. The contractor is to verify all dimensions and coordinate with the site Drawings and Tower Drawings. Immediately notify Engineer of any discrepancies.

   F. Contractor responsibilities include but not limited to the following:

      (1) Coordinate the Structural Documents with the Tower, and Civil Documents. Notify Engineer of any discrepancy or omission.
      (2) Verify existing dimensions and site conditions before starting work.
      (3) Contractor is soley responsible for the means, methods, techniques, sequences and procedures of construction.
      (4) Contractor has sole responsibility to comply with OSHA regulations.

2. **DESIGN LOADS:**

   Provided by A.R.E. wind Tower foundations for Kestrel Turbines.
   80ft (24m) Tower
   P=5.6 K, M =250.3 K-ft, V=5.1 K
   Maximum turbine Weight =490lbs.

3. **SUBMITTALS:**

   A. Shop drawings shall not contain details copied or reproduced from the Contract Documents. Reproduction of the contract documents shall result in the rejection of the shop drawings.

   B. Review of the shop drawings will be for general conformance with the Contract Documents. Such review shall not relieve the Contractor of the full responsibility to comply with the Contract Documents.

   C. Shop drawings shall not be reviewed for approval unless approved by the fabricator and the Contractor.

4. **FOUNDATION DESIGN INFORMATION:**

   A. It is imperative that the Contractor obtain, read, and understand the soil report.

   B. The foundation design is based on the recommendations contained in the soils report by GEO Services, LLC dated 6-8-2011

   C. Footings are to bear on rock as directed by the Geotechnical Engineer.
      Safe bearing capacity of rock
      Spreads Footings = 5 ksf

   D. The registered Geotechnical Engineer in the field shall verify that all site preparation, filling operations, and bearing conditions comply with soils report.

5. **REINFORCEMENT**

   A. Reinforcing Bars: ASTM A615, Grade 60

   B. Reinforcement Placement (U.N.O.)

      (1) Concrete: conform to provisions of the ACI code for all rebar placements.

      Reinforcement Splices:

      (1) Reinforcement marked as continuous can be spliced at locations determined by the contractor U.N.O.
      (2) All other reinforcement shall be spliced only at locations shown or noted, unless approved by the engineer.
      (3) Splice Lengths:

      Concrete Reinforcement: Class B tension Splice

6. **CAST-IN-PLACE CONCRETE:**

   A. Minimum compressive strength of concrete at 28 days for Strength Design by ACI 318-05 Building Code Requirements for Structural Concrete shall be as follows:

      (1) Footings: f'c = 3,000 p.s.i.
      (2) Pedestals: f'c = 4,000 p.s.i.

SPECIAL INSPECTION NOTES

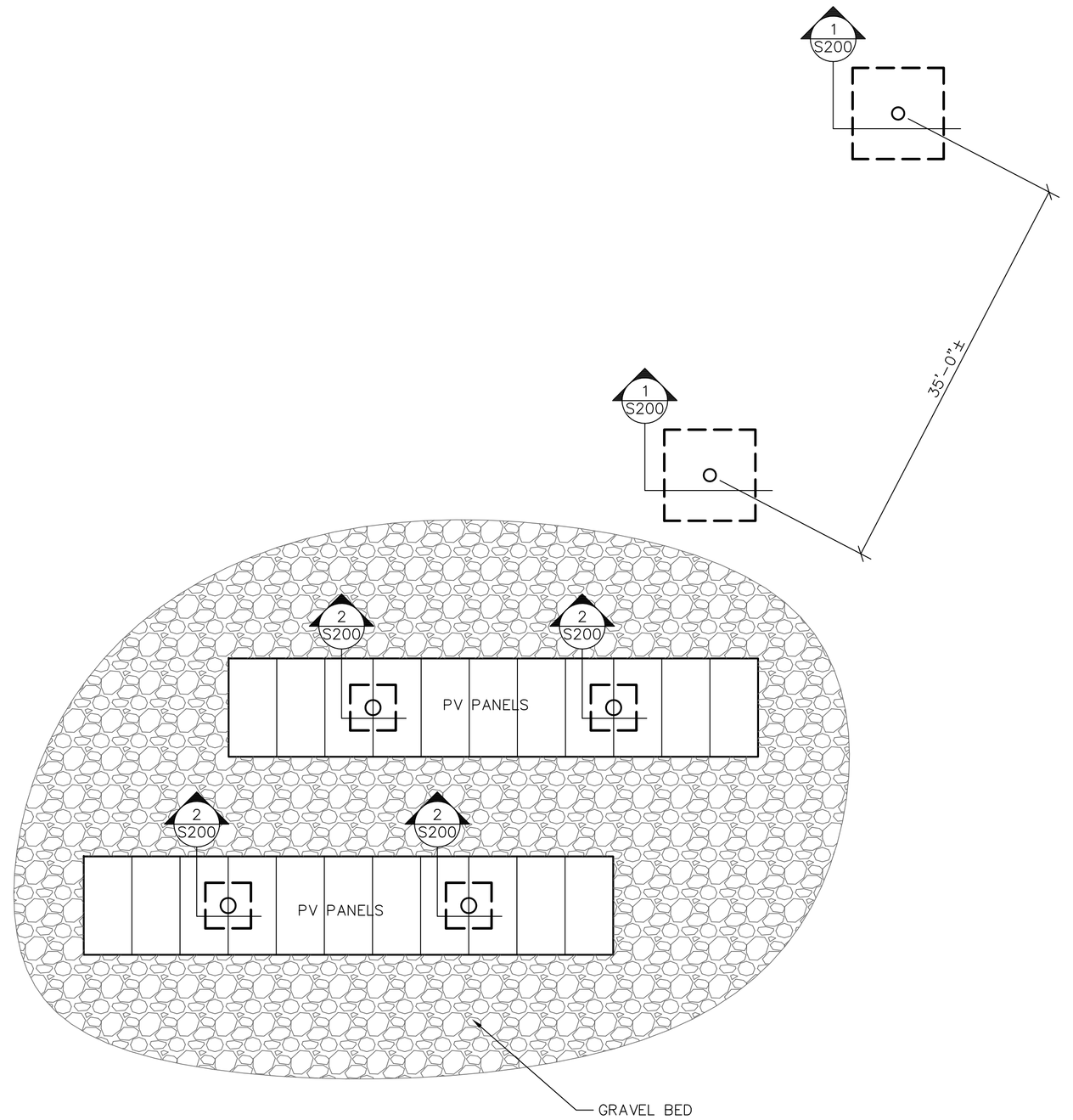
SPECIAL INSPECTION AND TESTING:

1. The owner shall employ an independent testing company to perform the following on-site inspections and testing using the designated IBC sections:

Concrete Construction	Section 1704.4
Foundations	Section 1704.7

2. The owner shall employ a Design Professional registered in the State of Tennessee, to perform Structural observations in accordance with IBC Section 1709.

3. Special Inspectors shall furnish Inspection reports to the Building Official and to the Engineer of Record in accordance with IBC Section 1704.12. The reports shall indicate that work inspected was performed in accordance with the approved construction documents. Discrepancies shall be brought to the attention of the Contractor for correction. If the discrepancies are not corrected the Building Official and the Engineer of Record shall be notified.



NOTE:
VERIFY LOCATION WITH OWNER AND SITE DRAWINGS.

WINDMILL TOWER PLAN (SPREAD FOOTING-OPTION)
SCALE: NONE

Consulting Engineers
630 Southgate Ave., Suite C
Nashville, Tennessee 37203
(615) 726-2902 Phone
(615) 726-4990 Fax
www.loganpatriengineering.com

NARASIMHA RAO PATRI — REGISTERED ENGINEER — No. 101 — STATE OF TENNESSEE — 08/15/11

LPE JOB NO.: 11026.01
ISSUE DATE: 08/15/11
DRAWN BY: ALJ
CHECKED BY: NRP

REVISION:

WIND TOWER FOUNDATION
KESTREL e400i - 80' TOWER
SPREAD FOOTING OPTION

SHEET NUMBER
S100