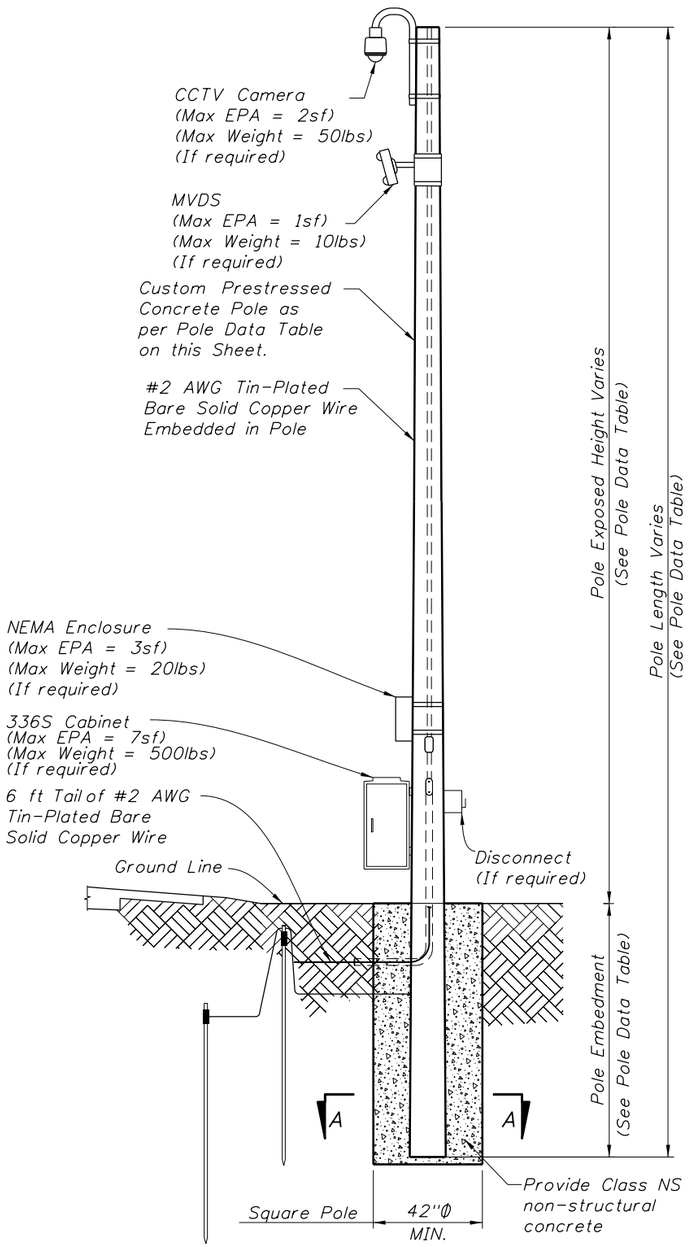
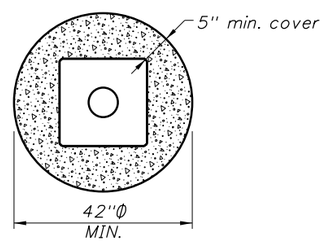


CONCRETE POLE ELEVATION



SECTION A-A

CONCRETE SQUARE POLE DATA TABLE							
POLE GROUP	EXPOSED POLE LENGTH (ft)	GRADE SLOPE	POLE TIP WIDTH (in)	POLE TAPER (in/ft)	EMBEDMENT DEPTH (ft)	TOTAL POLE LENGTH (ft)	MINIMUM REQUIRED POLE ULTIMATE MOMENT CAPACITY AT GROUND LINE (Kip-ft)
A	44	3:1	9.0	0.162	12	56	81.11
B	20	3:1	6.5	0.162	7	27	10.34
C	36	3:1	9.0	0.162	11	47	47.88
D	40	3:1	9.0	0.162	12	52	60.76

NOTES:

1. Pole Materials:
   Concrete: Class V Special or Class VI
   6 ksi minimum at 28 days
   4 ksi minimum at transfer

   Prestressed Strands: ASTM A416 Grade 270
   stress relieved or low relaxation

   Spiral Reinforcement: ASTM A1064 cold-drawn steel wire
2. Provide a minimum concrete cover of 1 inch.
3. For spiral reinforcement, one turn is required for splices and two turns are required at both the tip and butt ends of the pole.
4. Provide hand hole and couple plates made of non-corrosive materials. Attach cover plates to poles in conjunction with round headed chrome plated screws.
5. Tie ground wires to the interior reinforcing steel as necessary to prevent displacement during concreting operations.
6. Provide Aluminum Identification Markings on the poles. Include the following information using inset numerals with 1" height or as approved in the Producer's Quality Control Plan:

   Financial Project ID
   Pole Manufacturer
   Pole Type
   Pole Length (L)
7. Cut the tip end of the prestressed strand first or simultaneously with the butt end.
8. All prestressed poles shall be fully embedded in Class NS Non-Structural Concrete and designed for the following:
   a. 150 mph wind speed with a 50 year structure design life.
   b. A one inch maximum deflection in a 40 mph wind speed (3 second gust).
   c. Assumed pole base mount elevation at 0 ft above surrounding grade.
   d. Symmetrical strand layout (No rake).
9. Contractor shall submit shop drawings and corresponding pole capacity calculations for Engineer of Record review and approval. Shop drawings and calculations shall be signed and sealed by a Florida Registered Professional Engineer.
10. Coordinate this sheet with Pole Data Table on Sheet IT-19.
11. Foundation design is based on the following conservative soil parameters:
    Soil Type - Sand
    Soil Layer Thickness - 15 ft
    Soil Friction Angle - 26 Degrees
    Effective Soil Weight - 42.6 pcf
    Design Water Table at Grade

    If muck or peat is encountered during construction, the Contractor shall stop work and notify the Engineer for re-design of foundation.

    If proposed pole Effective Projected Area (EPA) is greater than the EPA assumed in the foundation design, the Engineer of Record will re-evaluate the required foundation depth and specify any changes during the shop drawing review if required.

REVISIONS			
DATE	DESCRIPTION	DATE	DESCRIPTION

METRIC ENGINEERING, INC.
DOUGLAS J. RUGGIANO, P.E. # 51497
13940 SW 136TH ST
SUITE 200
MIAMI, FLORIDA 33186
TEL. (305) 235-5098
FAX. (305) 235-5894
CERTIFICATE OF AUTHORIZATION 2294

STATE OF FLORIDA
DEPARTMENT OF TRANSPORTATION

ROAD NO.	COUNTY	FINANCIAL PROJECT ID
SR 93	MARION	428213-2-52-02

CONCRETE POLE DATA SHEET

SHEET NO. IT-154