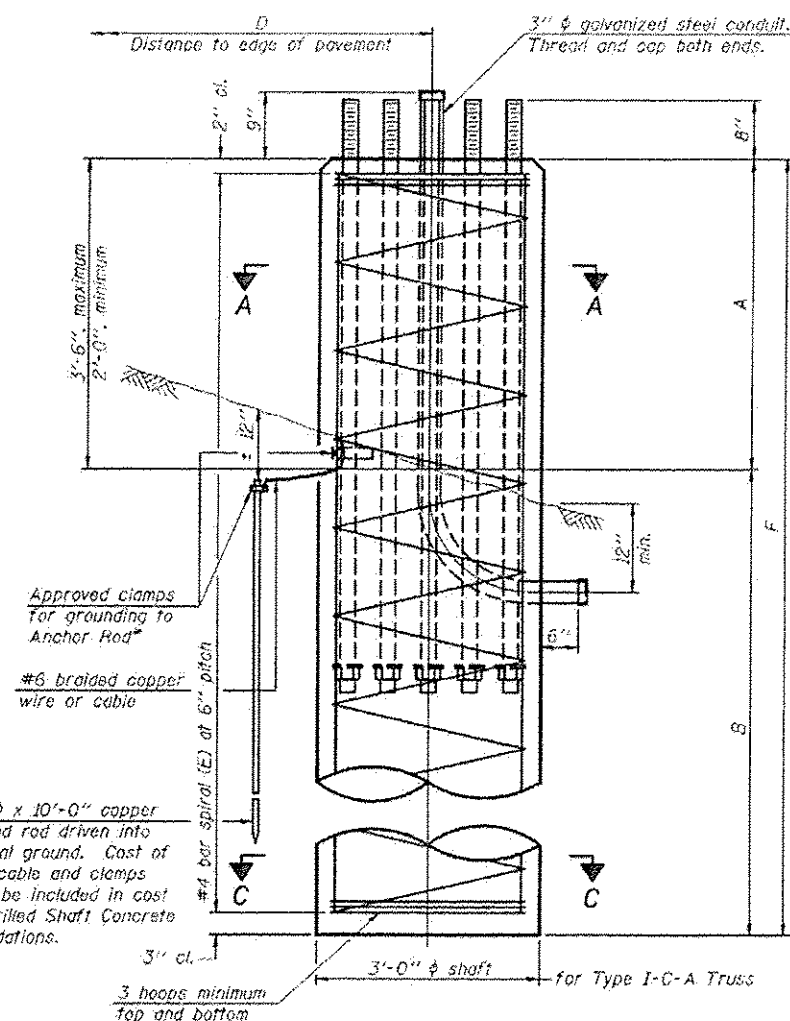
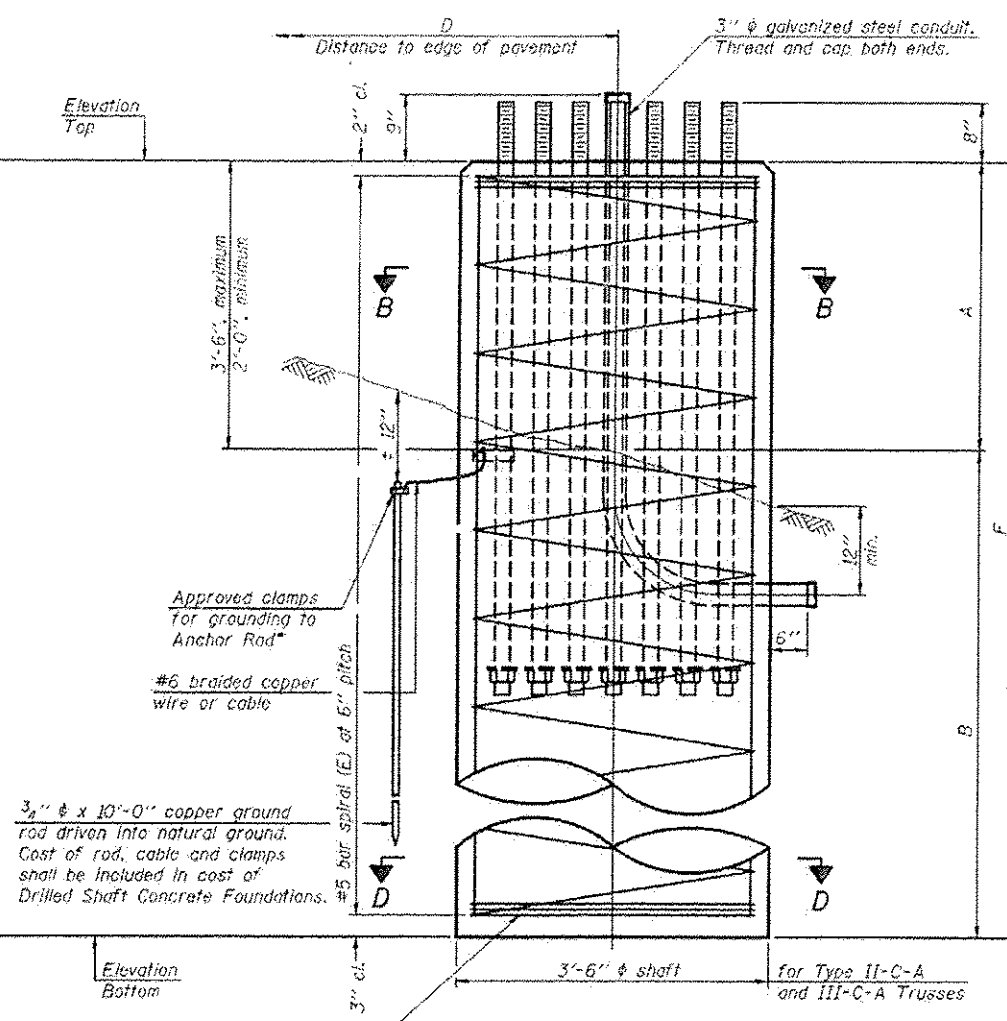


Grind anchor rod to bright finish at ground clamp location before installing clamp.



ELEVATION



ELEVATION

# NOTES:

The foundation dimensions shown in the Foundation Design Table are based on the presence of mostly cohesive soils with an average Unconfined Compressive Strength ( $Q_u$ ) of at least 1.25 tsf, which must be determined by previous soil investigations at the jobsite. When other conditions are indicated, the boring data will be included in the plans and the foundation dimensions shown in the Foundation Data Table will be the result of site specific designs.

If the conditions encountered are different than those indicated, the Contractor shall notify the Engineer to determine if the foundation dimensions need to be modified. If dimensions "B" or "F" are revised by more than 12" by the Contractor, "as-built" plans shall be prepared and submitted to the District Bureau of Operations for future reference.

No sonotubes or decomposable forms shall be used below the lower conduit entrance. Permanent metal forms or other shielding may not be left in place below that elevation without the Engineer's written permission.

Concrete shall be placed monolithically, without construction joints.

Backfill shall be placed per Article 502 of Standard Specification and prior to erection of support column.

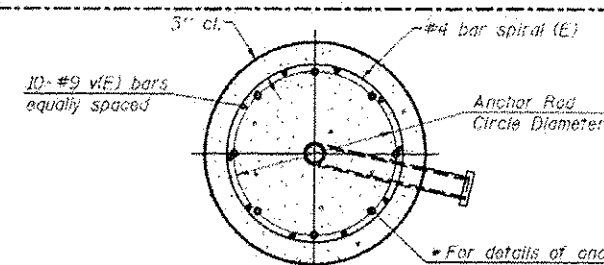
A normal surface finish followed by a Bridge Seal Sealer application will be required on concrete surfaces above the lowest elevation 6" below finished ground line. Cost included in "Drilled Shaft Concrete Foundation".

FOUNDATION DESIGN TABLE

| Truss Type | Post Base Sheet | Maximum Cantilever Length (ft) | Maximum Total Sign Area (sq ft) | Shaft Diameter (in) | "B" Depth (ft) | Anchor Rods No. | Anchor Rod Diameter (in) | Anchor Rod Circle Diameter (in) |
|------------|-----------------|--------------------------------|---------------------------------|---------------------|----------------|-----------------|--------------------------|---------------------------------|
| I-C-A      | OSC-A-4         | 25                             | 170                             | 3.0                 | 16.0           | 6               | 2                        | 22                              |
| II-C-A     | OSC-A-5         | 30                             | 170                             | 3.5                 | 17.0           | 12              | 2                        | 30                              |
| II-C-A     | OSC-A-5         | 30                             | 340                             | 3.5                 | 21.5           | 12              | 2                        | 30                              |
| III-C-A    | OSC-A-5         | 35                             | 170                             | 3.5                 | 19.0           | 12              | 2                        | 30                              |
| III-C-A    | OSC-A-5         | 35                             | 250                             | 3.5                 | 22.5           | 12              | 2                        | 30                              |
| III-C-A    | OSC-A-5         | 35                             | 400                             | 3.5                 | 26.5           | 12              | 2                        | 30                              |
| III-C-A    | OSC-A-5         | 40                             | 400                             | 3.5                 | 32.0           | 12              | 2                        | 30                              |

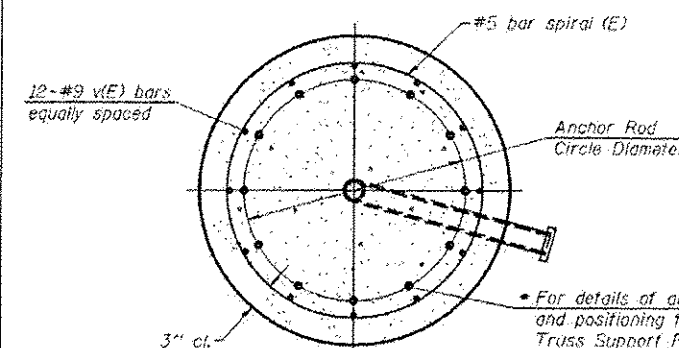
FOUNDATION DATA TABLE

| Structure Number | Station         | Truss Type | Shaft Diameter | Elevation Top | Elevation Bottom | $Q_u$     | A     | B      | F      | Class DS Concrete Cubic Yards |
|------------------|-----------------|------------|----------------|---------------|------------------|-----------|-------|--------|--------|-------------------------------|
| 100161190R000.6  | 16+25.00 Ramp 6 | III-C-A    | 3'-6"          | 634.29        | 600.29           | See Notes | 2'-0" | 32'-0" | 34'-0" | 12.2                          |
|                  |                 |            |                |               |                  |           |       |        |        |                               |
|                  |                 |            |                |               |                  |           |       |        |        |                               |
|                  |                 |            |                |               |                  |           |       |        |        |                               |
|                  |                 |            |                |               |                  |           |       |        |        |                               |
|                  |                 |            |                |               |                  |           |       |        |        |                               |
|                  |                 |            |                |               |                  |           |       |        |        |                               |
|                  |                 |            |                |               |                  |           |       |        |        |                               |
|                  |                 |            |                |               |                  |           |       |        |        |                               |
|                  |                 |            |                |               |                  |           |       |        |        |                               |



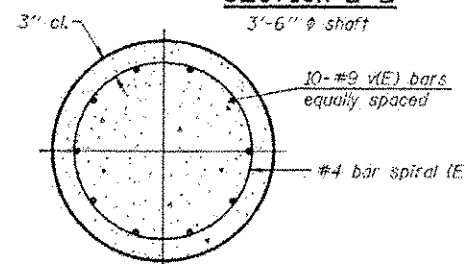
SECTION A-A

3'-0"  $\phi$  shaft



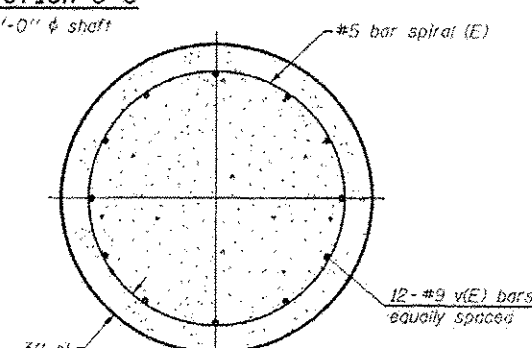
SECTION B-B

3'-6"  $\phi$  shaft



SECTION C-C

3'-0"  $\phi$  shaft



SECTION D-D

3'-6"  $\phi$  shaft

ADDED SHEET

OSC-A-9 6-1-12

PATRICK ENGINEERING INC.  
4870 VARSITY DRIVE  
LIBLE, IL 60532  
patrickengineering.com

USER NAME  
DESIGNED - CPK  
DRAWN - MJP  
CHECKED - JAH  
DATE - 2/18/2013

REVISION  
4/1/2013 AY  
REVISION  
REVISION  
REVISION

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CANTILEVER SIGN STRUCTURES - DRILLED SHAFT  
ALUMINUM TRUSS & STEEL POST

SCALE: SHEET NO. SCN-31 OF 10 SHEETS

SECTION 16168  
COUNTY COOK  
TOTAL SHEETS 404  
SHEET NO. 1471  
CONTRACT NO. 60J14  
ILLINOIS FED. AID PROJECT