

## GENERAL NOTES

DESIGN: Current (at time of letting) AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals (Fatigue Category II - natural wind gust

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Recurring Special Provisions. ("Standard Specifications") All references to "Mast Arm Assembly and Pole" are applicable, unless otherwise noted.

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 Structural Welding Code and the Standard Specifications.

ANCHOR RODS: Shall conform to ASTM F1554 Grade 105. No welding shall be permitted on

FASTENERS: All connection bolts shall be High Strength Bolts MI64, Galvanize M232 (A153), Type 3, or stainless steel heavy hex conforming to ASTM A193, Grade B8 or B8M, Class 1. U-bolts shall be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished, or an equivalent material acceptable to the Engineer. Nuts for stainless steel bolts shall be stainless steel conforming to ASTM A194, Grade 8 (AISI Type 304) or Grade BF (AISI Type 303). All nuts shall be "locknuts" with nylon or steel inserts and semifinished hexagonal heads equivalent to the finished heavy hex series of the American National Standard. Washers for stainless steel bolts shall be stainless steel conforming to ASTM A240, Type

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

CAMBER: Minimum AASHTO camber = L / 1000 + dead load camber.

FOUNDATIONS: The contract unit price for Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

## BILL OF MATERIAL

|                                   | ITEM            |                 |          |  |   |
|-----------------------------------|-----------------|-----------------|----------|--|---|
|                                   | UNIT            | TOTAL           |          |  |   |
| AD SIGN STRUCTURE MONOTUBE SINGLE |                 |                 | Foot     |  | 1 |
| D SHAFT CON                       | CRETE FOUNDATIC | DNS             | Cu. Yds. |  |   |
| Proposed                          | Proposed        | Proposed        |          |  |   |
| End Support                       | Cross           | End Support &   |          |  |   |
| Height                            | Beam            | Cross Beam      |          |  |   |
| н                                 | Dia.            | Wall Thickness* |          |  |   |
| Right Pole                        | (inches)        |                 |          |  |   |
| 21'-0"                            | 10.5            | TBD*            | _        |  |   |
| 21'-4"                            | 10.5            | TBD*            |          |  |   |
| 20' - 10"                         | 10.5 - 12.5     | TBD*            |          |  |   |
| 21'-5"                            | 10.5            | TBD*            |          |  |   |
| 21'-3"                            | 10.5            | TBD*            |          |  |   |
| 21'- 5"                           | 10.5            | TBD*            |          |  |   |

| 1   | Distance from | Proposed    | Proposed    | Proposed    | Proposed    |
|-----|---------------|-------------|-------------|-------------|-------------|
| tor | Center of     | End Support | End Support | Elevation   | Elevation   |
|     | cross beam    | Height      | Height      | Top of      | Top of      |
|     | to top of     | н           | н           | End Support | End Support |
|     | Column - typ. | Left Pole   | Right Pole  | Left Pole   | Right Pole  |
|     | 12" ***       | 21' - 5"    | 21'-0"      | 121.32      | 121.33      |
|     | 12" ***       | 21'-4"      | 21'-4"      | 121.63      | 121.64      |
|     | 12" ***       | 21' - 2"    | 20' - 10"   | 121.18      | 121.15      |
|     | 12" ***       | 21'-5"      | 21'-5"      | 121.73      | 121.73      |
|     | 12" ***       | 21'-3"      | 21'-3"      | 121.54      | 121.52      |
|     | [             | T           |             | 1           |             |

| ◆VARIOUS COUNTIES<br>◆•D-5 OVD SIN STR REPL 2012-06 |                           |         |         |          |              |
|---|---------------------------|---------|---------|----------|--------------|
|   | F.A.<br>RTE.              | SECTION | COUNTY  | SHEETS   | SHEET<br>NO. |
| STRUCTURE   | •                         |         | Various | 178      | 177          |
| ·   |                           |         | CONTRA  | CT NO. 4 | 16179        |
| STA. TO STA.  | ILLINOIS FED. AID PROJECT |         |         |          |              |