

WITH ALL CURRENT INTERIMS.

2. CONSTRUCTION SPECIFICATIONS:

2004 NJTA STANDARD SPECIFICATIONS, 6TH EDITION, AS MODIFIED BY THE SUPPLEMENTAL SPECIFICATIONS AND THESE STANDARD DRAWINGS.

3. DESIGN CRITERIA:

DESIGN WIND SPEED IIO MPH DESIGN ICE LOAD 3 PSF

4. STRUCTURAL STEEL:

(A) STRUCTURAL STEEL HSS SECTIONS SHALL BE ASTM A847 GR. 50 WITH PROPERTIES OF ASTM DESIGNATION A709 GR. 50W. TS SECTIONS OF EQUIVALENT STRENGTH CAN BE USED AS AN ALTERNATIVE TO THE HSS SECTIONS. AS AN ALTERNATE, TUBING PRODUCED BY FORMING AND LONGITUDINALLY SEAM WELDING STEEL PLATE CONFORMING TO ASTM A709, GRADE 50W OR ASTM A242 MAY BE USED. FOR OPTIONAL FABRICATION DETAILS, SEE STANDARD DRAWING SI-30.

WELDING AND NONDESTRUCTIVE TESTING SYMBOLS SHALL CONFORM TO STANDARD SYMBOLS FOR WELDING AND BRAZING AND NONDESTRUCTIVE EXAMINATIONS PER AWS A2.4.

5. BOLTS:

(A) ALL BOLTS SHALL BE ASTM A449 HOT-DIP GALVANIZED OR ASTM A325 (TYPE 3) HIGH STRENGTH BOLTS, AS NOTED. NUTS SHALL CONFORM TO ASTM A563 AND PLATE WASHERS SHALL CONFORM TO ASTM F436. BOLTS, NUTS AND PLATE WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.

(B) ANCHORS RODS SHALL BE ASTM F1554, GRADE 55 HOT-DIP GALVANIZED WITH MINIMUM Fy = 55 KSI AND MINIMUM Fu = 75 KSI. NUTS SHALL CONFORM TO ASTM A563 AND PLATE WASHERS SHALL CONFORM TO ASTM A709, GRADE 50. BOLTS, NUTS AND PLATE WASHERS SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.

(C) STAINLESS STEEL BOLTS SHALL BE ASTM A276. TYPE 304.

6. ALUMINUM:

ALUMINUM ALLOY SHAPES ROLLED OR EXTRUDED SHALL BE ASTM B221 ALLOY 6061-T6.

- STRESS AND SHALL MEET SUPPLEMENTARY REQUIREMENTS FOR TOUGHNESS.
- 3. BOTTOM OF BASE PLATE (ELEVATION "A") SHALL BE A MINIMUM OF 4'-0" ABOVE THE HIGH POINT OF THE ROADWAY CROSS SECTION.
- 4. THE CONTRACTOR MAY REVISE THE NUMBER OF SPLICES AT HIS OPTION SUBJECT TO THE APPROVAL OF THE ENGINEER.
- 5. FOR SECTIONS A-A AND B-B, SEE STANDARD DRAWING SI-29. FOR SECTION H-H AND H'-H', SEE STANDARD DRAWING SI-30.
- 6. FOR REINFORCED CONCRETE PEDESTAL AND DRILLED SHAFT DETAILS, SEE STANDARD DRAWING SI-39.
- 7. FOR SIGN ATTACHMENT SECTIONS AND DETAILS, SEE STANDARD DRAWING SI-42.
- ↑ 8. FOR HANDHOLE AND PIPE NIPPLE DETAILS, SEE STANDARD DRAWING SI-30.

HSS = HOLLOW STRUCTURAL SECTIONS

L = SPAN LENGTH TS = TUBULAR SECTION

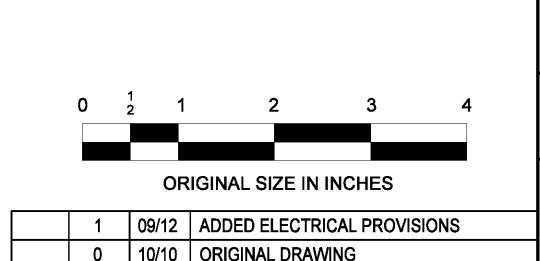
TM = MAIN LOAD CARRYING MEMBER

S.S. = STAINLESS STEEL

STIFF. = STIFFENER

UT = ULTRASONIC TESTING

TYP. = TYPICAL



NEW JERSEY TURNPIKE AUTHORITY

GARDEN STATE PARKWAY

VIERENDEEL SPAN TYPE SIGN STRUCTURE (SPANS FROM 60 TO 90 FEET) **ELEVATIONS AND GENERAL NOTES**

OFFICE OF THE CHIEF ENGINEER **NEW JERSEY TURNPIKE AUTHORITY**

2010 STANDARD DRAWING SI-28

OF

NEW JERSEY WOODBRIDGE

0 | 10/10 | ORIGINAL DRAWING NO. DATE **REVISION** CONTRACT NO.

SHEET NO.