

### 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 only).

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 rods.

FASTENERS: All connection bolts shall be High Strength Bolts MI64, Galvanize M232 (AI53), Type 3, or stainless steel heavy hex conforming to ASTM AI93, 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 8F (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 302 or 304.

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.

## ELEVATION

Looking at face of signs.
Looking upstation for structures with signs both sides.

## SIGN STRUCTURE DATA TABLE

Structure Number	Station	© to © Poles	Elevation A	Dimension D	Actual Sign/Signal Area	Left Foundation				Right Foundation					Class SI	
						Elevation Top	Elev. Bottom	А	В	F	Elevation Top	Elev. Bottom	А	В	F	Class SI Concrete (Cu. Yds.)
1M016I190R000.6	12+95.00 (Ramp 6)	42.0	635.99	11'-2"	270	638.10	624.60	1'-6"	12'-0"	13′-6"	635.20	621.70	1′-6"	12'-0"	13′-6"	7.1

#### BILL OF MATERIAL

ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE- SPAN, DUAL MONOTUBE	Foot	42.0
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	7.1

SCALE:

# **DUALTUBE - 1** 6-1-12

	PATRICK ENGINEERING INC. 4970 VARSITY DRIVE LISLE, IL 60532 patrickengineering.com	USER NAME =	DESIGNED	-	CPK	REVISED
			DRAWN	-	MJP	REVISED
		PLOT SCALE =	CHECKED	-	JAH	REVISED
ENGINEERING		PLOT DATE =	DATE	-	2/18/2013	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELEVATION AND NOTES

DUAL MONOTUBE SIGN STRUCTURE

SHEET NO. SGN-3 OF 10 SHEETS

F.A. U RTE. SECTION
1616B