

**State of New Hampshire  
Department of Transportation**

29342A.01

**Project:** STATEWIDE X-A004(272) 29342A  
**County and Code:** HILLSBOROUGH COUNTY 011 & MERRIMACK 013  
**Date Bids Open:** September 10, 2015  
**Scope of Work:** RETROFITS ALL SIGNAL HEAD BACKPLATES WITH 2" FLUORESCENT YELLOW RETROREFLECTIVE BORDERS  
**Location:** STATEWIDE  
**Completion Date:** August 26, 2016

A EAST COAST SIGNALS, INC. 69 NORTH ROAD, DEERFIELD, NH 03037	\$386,207.00
B SIEMENS INDUSTRY INC 8 PROGRESS ROAD BILLERICA MA 01821	\$412,944.00
C NEW ENGLAND SIGNAL SYSTEMS, INC. PO BOX 326, NORTHWOOD, NH 03261	\$442,334.00

Item No:	Description	Unit	Quantity	A		B		C	
				Unit Price	Total	Unit Price	Total	Unit Price	Total
616.191	ALTERATIONS TO TRAFFIC SIGNALS	U	1.00	\$1,600.00	\$1,600.00	\$1,735.00	\$1,735.00	\$3,500.00	\$3,500.00
616.192	ALTERATIONS TO TRAFFIC SIGNALS	U	1.00	\$1,600.00	\$1,600.00	\$1,735.00	\$1,735.00	\$6,000.00	\$6,000.00
616.70001	RETROREFLECTIVE TAPE FOR SIGNAL HEAD BACKPLATES	LF	7,500.00	\$8.62	\$64,650.00	\$12.08	\$90,600.00	\$3.00	\$22,500.00
616.7111	LED SIGNAL HEAD LENS (BALL, RED)	EA	130.00	\$78.00	\$10,140.00	\$74.00	\$9,620.00	\$120.00	\$15,600.00
616.7112	LED SIGNAL HEAD LENS (BALL, YELLOW)	EA	130.00	\$84.00	\$10,920.00	\$77.00	\$10,010.00	\$135.00	\$17,550.00
616.7113	LED SIGNAL HEAD LENS (BALL, GREEN)	EA	90.00	\$86.00	\$7,740.00	\$76.00	\$6,840.00	\$138.00	\$12,420.00
616.7121	LED SIGNAL HEAD LENS (ARROW, RED)	EA	34.00	\$97.00	\$3,298.00	\$75.00	\$2,550.00	\$126.00	\$4,284.00
616.7122	LED SIGNAL HEAD LENS (ARROW, YELLOW)	EA	40.00	\$96.00	\$3,840.00	\$76.00	\$3,040.00	\$138.00	\$5,520.00
616.7123	LED SIGNAL HEAD LENS (ARROW, GREEN)	EA	80.00	\$91.00	\$7,280.00	\$77.00	\$6,160.00	\$140.00	\$11,200.00
616.7124	LED SIGNAL HEAD LENS (ARROW, BI-MODAL)	EA	6.00	\$230.00	\$1,380.00	\$123.00	\$738.00	\$300.00	\$1,800.00
616.723	3-SECTION RETROREFLECTIVE BACKPLATE	EA	270.00	\$165.00	\$44,550.00	\$252.00	\$68,040.00	\$180.00	\$48,600.00
616.724	4-SECTION RETROREFLECTIVE BACKPLATE	EA	4.00	\$363.00	\$1,452.00	\$282.00	\$1,128.00	\$220.00	\$880.00
616.7257	5-SECTION RETROREFLECTIVE BACKPLATE (CLUSTER)	EA	2.00	\$500.00	\$1,000.00	\$317.00	\$634.00	\$465.00	\$930.00
616.733	3-SECTION SIGNAL HEAD WITH RETROREFLECTIVE BACKPLATE	EA	140.00	\$953.00	\$133,420.00	\$739.00	\$103,460.00	\$1,140.00	\$159,600.00
616.734	4-SECTION SIGNAL HEAD WITH RETROREFLECTIVE BACKPLATE	EA	5.00	\$1,005.00	\$5,025.00	\$1,039.00	\$5,195.00	\$1,350.00	\$6,750.00
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	27,000.00	\$1.00	\$27,000.00	\$1.00	\$27,000.00	\$1.00	\$27,000.00

Item No:	Description	Unit	Quantity	A		B		C	
				Unit Price	Total	Unit Price	Total	Unit Price	Total
618.7	FLAGGERS	HR	90.00	\$25.00	\$2,250.00	\$32.00	\$2,880.00	\$30.00	\$2,700.00
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$20,000.00	\$20,000.00	\$43,445.00	\$43,445.00	\$35,000.00	\$35,000.00
692	MOBILIZATION	U	1.00	\$28,562.00	\$28,562.00	\$17,634.00	\$17,634.00	\$50,000.00	\$50,000.00
699	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	1,000.00	\$1.00	\$1,000.00	\$1.00	\$1,000.00	\$1.00	\$1,000.00
1008.11	ALTERATIONS AND ADDITIONS AS NEEDED - UNANTICIPATED WORK	\$	8,000.00	\$1.00	\$8,000.00	\$1.00	\$8,000.00	\$1.00	\$8,000.00
1010.15	FUEL ADJUSTMENT	\$	1,500.00	\$1.00	\$1,500.00	\$1.00	\$1,500.00	\$1.00	\$1,500.00
					\$386,207.00		\$412,944.00		\$442,334.00

## A - PS&E Comparison

PS&E = NHDOT Cost Estimate

Item No:	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
616.191	ALTERATIONS TO TRAFFIC SIGNALS	U	1.00	\$1,600.00	\$1,600.00	\$1,000.00	\$1,000.00	\$600.00
616.192	ALTERATIONS TO TRAFFIC SIGNALS	U	1.00	\$1,600.00	\$1,600.00	\$1,000.00	\$1,000.00	\$600.00
616.70001	RETROREFLECTIVE TAPE FOR SIGNAL HEAD BACKPLATES	LF	7,500.00	\$8.62	\$64,650.00	\$4.00	\$30,000.00	\$34,650.00
616.7111	LED SIGNAL HEAD LENS (BALL, RED)	EA	130.00	\$78.00	\$10,140.00	\$125.00	\$16,250.00	(\$6,110.00)
616.7112	LED SIGNAL HEAD LENS (BALL, YELLOW)	EA	130.00	\$84.00	\$10,920.00	\$125.00	\$16,250.00	(\$5,330.00)
616.7113	LED SIGNAL HEAD LENS (BALL, GREEN)	EA	90.00	\$86.00	\$7,740.00	\$125.00	\$11,250.00	(\$3,510.00)
616.7121	LED SIGNAL HEAD LENS (ARROW, RED)	EA	34.00	\$97.00	\$3,298.00	\$125.00	\$4,250.00	(\$952.00)
616.7122	LED SIGNAL HEAD LENS (ARROW, YELLOW)	EA	40.00	\$96.00	\$3,840.00	\$125.00	\$5,000.00	(\$1,160.00)
616.7123	LED SIGNAL HEAD LENS (ARROW, GREEN)	EA	80.00	\$91.00	\$7,280.00	\$125.00	\$10,000.00	(\$2,720.00)
616.7124	LED SIGNAL HEAD LENS (ARROW, BI-MODAL)	EA	6.00	\$230.00	\$1,380.00	\$125.00	\$750.00	\$630.00
616.723	3-SECTION RETROREFLECTIVE BACKPLATE	EA	270.00	\$165.00	\$44,550.00	\$200.00	\$54,000.00	(\$9,450.00)
616.724	4-SECTION RETROREFLECTIVE BACKPLATE	EA	4.00	\$363.00	\$1,452.00	\$225.00	\$900.00	\$552.00
616.7257	5-SECTION RETROREFLECTIVE BACKPLATE (CLUSTER)	EA	2.00	\$500.00	\$1,000.00	\$300.00	\$600.00	\$400.00
616.733	3-SECTION SIGNAL HEAD WITH RETROREFLECTIVE BACKPLATE	EA	140.00	\$953.00	\$133,420.00	\$1,500.00	\$210,000.00	(\$76,580.00)
616.734	4-SECTION SIGNAL HEAD WITH RETROREFLECTIVE BACKPLATE	EA	5.00	\$1,005.00	\$5,025.00	\$1,600.00	\$8,000.00	(\$2,975.00)

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Item No:	Description	Unit	Quantity	A-Bidder		PS&E		A-PS&E Difference
				Unit Price	Total	Unit Price	Total	
618.61	UNIFORMED OFFICERS WITH VEHICLE	\$	27,000.00	\$1.00	\$27,000.00	\$1.00	\$27,000.00	\$0.00
618.7	FLAGGERS	HR	90.00	\$25.00	\$2,250.00	\$25.00	\$2,250.00	\$0.00
619.1	MAINTENANCE OF TRAFFIC	U	1.00	\$20,000.00	\$20,000.00	\$12,500.00	\$12,500.00	\$7,500.00
692	MOBILIZATION	U	1.00	\$28,562.00	\$28,562.00	\$25,000.00	\$25,000.00	\$3,562.00
699	MISCELLANEOUS TEMPORARY EROSION AND SEDIMENT CONTROL	\$	1,000.00	\$1.00	\$1,000.00	\$1.00	\$1,000.00	\$0.00
1008.11	ALTERATIONS AND ADDITIONS AS NEEDED - UNANTICIPATED WORK	\$	8,000.00	\$1.00	\$8,000.00	\$1.00	\$8,000.00	\$0.00
1010.15	FUEL ADJUSTMENT	\$	1,500.00	\$1.00	\$1,500.00	\$1.00	\$1,500.00	\$0.00
					\$386,207.00		\$446,500.00	(\$60,293.00)