

APRIL 23, 2015

GOFFSTOWN RAIL TRAIL CONSTRUCTION PROJECT

April 23, 2015

**ADDENDUM 2**

The following information is forwarded to all prospective bidders for the above project.

**This addendum shall be signed by all BIDDERS and included with the Bid Form.**

**1.0 CHANGE OF BID OPEENING DATE:**

Bids will be accepted until **April 30<sup>th</sup>**, 2015 at 2:00 P.M.

**2.0 UTILITY RLEATED CHANGES:**

This addendum includes changes resulting from recent actions by a private utility company. These changes are minor and are reflected in the plans and bid quantities as described and shown herein.

**Description of the changes:**

Plan changes have been clouded and numbered on the attached sheets and are described below:

**SHEET 8 of 34:**

The existing guy pole in the vicinity of the proposed parking lot at approximate trail Station 506+50 RT that was to be relocated will now be removed. The parking area shall therefore be expanded to include the space that the guy pole previously obstructed. The attached plan depicts the new parking lot layout. The pavement and base quantities have been increased accordingly, as shown below.

**SHEET 9 of 34:**

The power feed to the traffic signal controller will come from Eversource utility pole # 80/265 at approximate Trail Station 510+15 RT instead of from the original pole located at approximate Trail Station 508+93 RT.

**SHEET 15 of 34:**

The power feed to the traffic signal controller will come from Eversource utility pole # 80/265 at approximate Trail Station 510+15 RT instead of from the original pole located at approximate Trail Station 508+93 RT. The quantity of 3" Schedule 40 PVC conduit under Pay Item 616.3101 is reduced by 119 linear feet to 50 linear feet. The List of Major materials in the Item 616.3101 traffic signal special provision is hereby amended accordingly.

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**SHEET 17 of 34:**

The work shall now include the installation of a power meter with pedestal located adjacent to the existing PSNH utility pole at the corner of Mast Road and Henry Bridge Road. The work shall include the meter pedestal and the installation of approximately 280 linear feet of 3-Inch schedule 40 conduit (previously 275 LF) including 3C/#8 AWG conductors. The conduit, conductors and pedestal are included in the traffic signal lump sum item. (Item 616.2102) The List of Major materials in the traffic signal special provision is hereby amended accordingly.

The quantity of Item 304.3 associated with the additional paved parking area is estimated to be +16 CY and is added to the quantity of Item 304.3 currently in the bid form. Therefore, the new contract quantity of Item 304.3 is **406 CY**.

The quantity of Item 403.11 associated with the additional paved parking areas is estimated to be +10 Tons and is added to the quantity of Item 403.11 currently in the bid form. Therefore, the new contract quantity of Item 403.11 is **175 TON**.

All bidders shall manually update the quantity on their bid form to reflect the new quantities shown below and shall use these quantities to calculate the Total Bid amount.

304.30	406	CRUSHED GRAVEL (F)				
		AT _____				
		DOLLARS				
	CY	CUBIC YARD				
403.11	175	HOT BITUMINOUS PAVEMENT, MACHINE METHOD				
		AT _____				
		DOLLARS				
	TON	PER TON				

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**3.0 CONCRETE HEADWALL FOR 18" R.C. PIPE:**

The concrete headwall detail on Plan Sheet 5 shall be replaced by NHDOT Standard Detail HW-2 – P.C.-3 as shown below:

**SECTION ON CENTERLINE**  
SECTIONS ON CENTERLINE FOR PC-4 SIMILAR TO PC-2.

**ELEVATION**

**PLAN OF L HEADWALL**

DIAMETER D INCHES	MASONRY PER FOOT OF WALL CU. YD.	MASONRY PER STANDARD HEADER CU. YD.	STEEL PER STANDARD HEADER LB.	LENGTH OF BARS	EXC. FOR 1' DEPTH CU. YD.	HEADER LENGTH L	HEADER HEIGHT H	FILL HEIGHT FH	"h"	WIDTH AT BOTTOM OF HEADER W	"L" HEADWALL	
											MASONRY IN CORNER FRUSTUM CU. YD.	EXC. FOR 1' DEPTH CU. YD.
12	0.204	0.80	11	3'-10"	0.911	4'-3"	3'-9"	1'-1"	1'-3"	1'-11 1/4"	0.31	1.195
15	0.240	1.32	16	5-8	1.204	6-0	4-3	1-7	1-6	2-0 3/4"	0.38	1.588
18	0.260	1.66	16	5-8	1.375	7-0	4-6	1-10	1-6	2-1 1/2"	0.42	1.700
24	0.301	2.41	24	8-8	1.731	9-0	5-0	2-4	1-6	2-3	0.51	2.086
30	0.344	3.32	29	10-8	2.106	11-0	5-6	2-10	1-6	2-4 1/2"	0.61	2.491
36	0.389	4.43	35	12-8	2.500	13-0	6-0	3-4	1-6	2-6	0.72	2.917
42	0.461	6.28	42	15-2	3.082	15-9	6-9	4-1	1-9	2-8 1/4"	0.94	3.549
48	0.512	7.77	47	17-2	3.520	17-9	7-3	4-7	1-9	2-9 3/4"	1.05	4.019
54	0.565	9.46	52	19-2	3.977	19-9	7-9	5-1	1-9	2-11 1/4"	1.20	4.522
60	0.621	11.42	58	21-2	4.451	21-9	8-3	5-7	1-9	3-0 3/4"	1.37	5.024
66	0.689	13.68	63	23-2	4.947	23-9	8-9	6-1	1-9	3-2 1/4"	1.55	5.559
72	0.740	15.79	69	25'-2"	5.460	25'-9"	9'-3"	6'-7"	1'-9"	3'-3 3/4"	1.75	6.108

NOTE: STEEL QUANTITIES ARE FOR CONCRETE HEADWALLS ONLY

NHDOT STANDARD PLANS	REV. DATE		PLATE
	HEADWALLS FOR R.C. PIPE:	CONCRETE	06-16-2010
	MORTAR RUBBLE MASONRY		STANDARD
			HW-2

The associated pay items for the above headwall shall be added to the Bid Form as follows:

GOFFSTOWN  
16029

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520.10	1.32	CONCRETE CLASS A				
		AT _____				
		DOLLARS				
	CY	CUBIC YARD				
544	11	REINFORCING STEEL				
		AT _____				
		DOLLARS				
	LB	POUND				

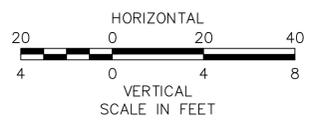
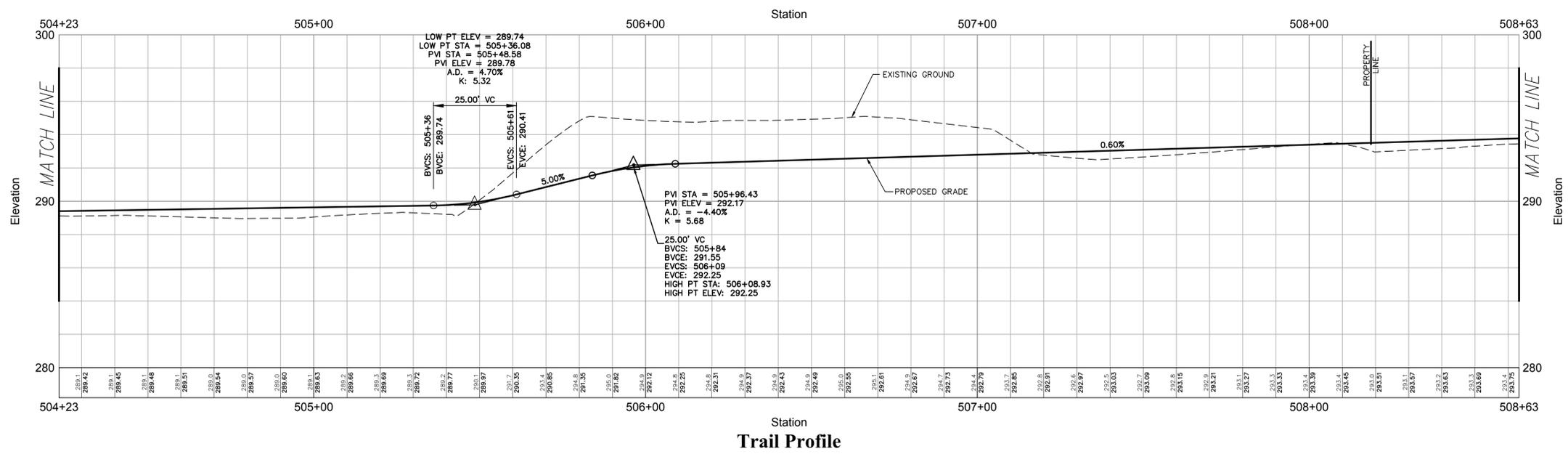
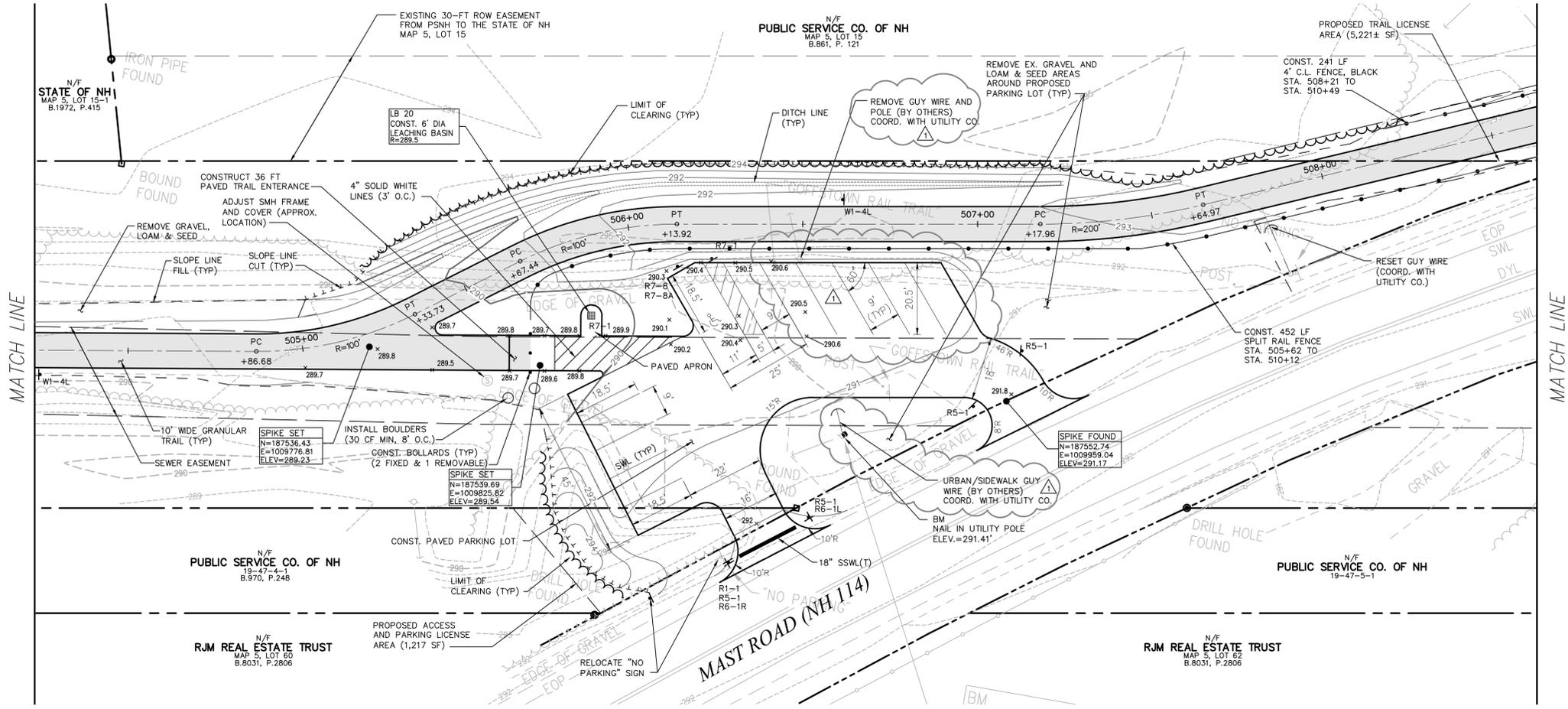
The dollar amount from the above two headwall related items shall be reflected in the Total Bid amount on page SP-9 of the Bid.

The below BIDDER acknowledges receipt of the above information.

BIDDER's Name: \_\_\_\_\_ Date: \_\_\_\_\_

COMPANY NAME: \_\_\_\_\_

SDR PROCESSED	DATE	REVISIONS AFTER PROPOSAL	STATION
NEW DESIGN	DATE		
SHEET CHECKED	DATE		
AS BUILT DETAILS	DATE		



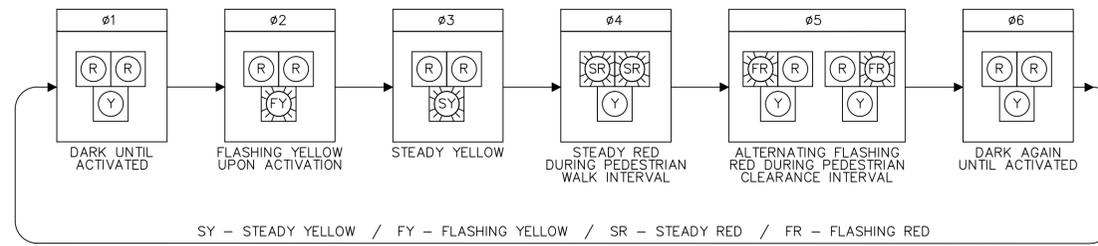
TOWN OF GOFFSTOWN, NEW HAMPSHIRE			
BICYCLE - PEDESTRIAN RAIL-TRAIL			
ADDENDUM NO. 2		04/23/2015	
No.	Revision	Date	Appvd.
<b>General Plan &amp; Profile</b>			
<b>Site 1</b>			
DATE	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.
DECEMBER 18, 2014	52168	52168-GEN	16029
SHEET NO.	TOTAL SHEETS		
8	34		



**SIGNAL HEAD DATA**

PROPOSED	
PHB	P1-P2
12" LED LENS WITH 5" RETROREFLECTIVE BACKPLATES	16" X 18" LED HOUSING
ALL SIGNAL HEADS SHALL BE EQUIPPED WITH L.E.D. MODULES	

**PROPOSED PHASE SEQUENCE**



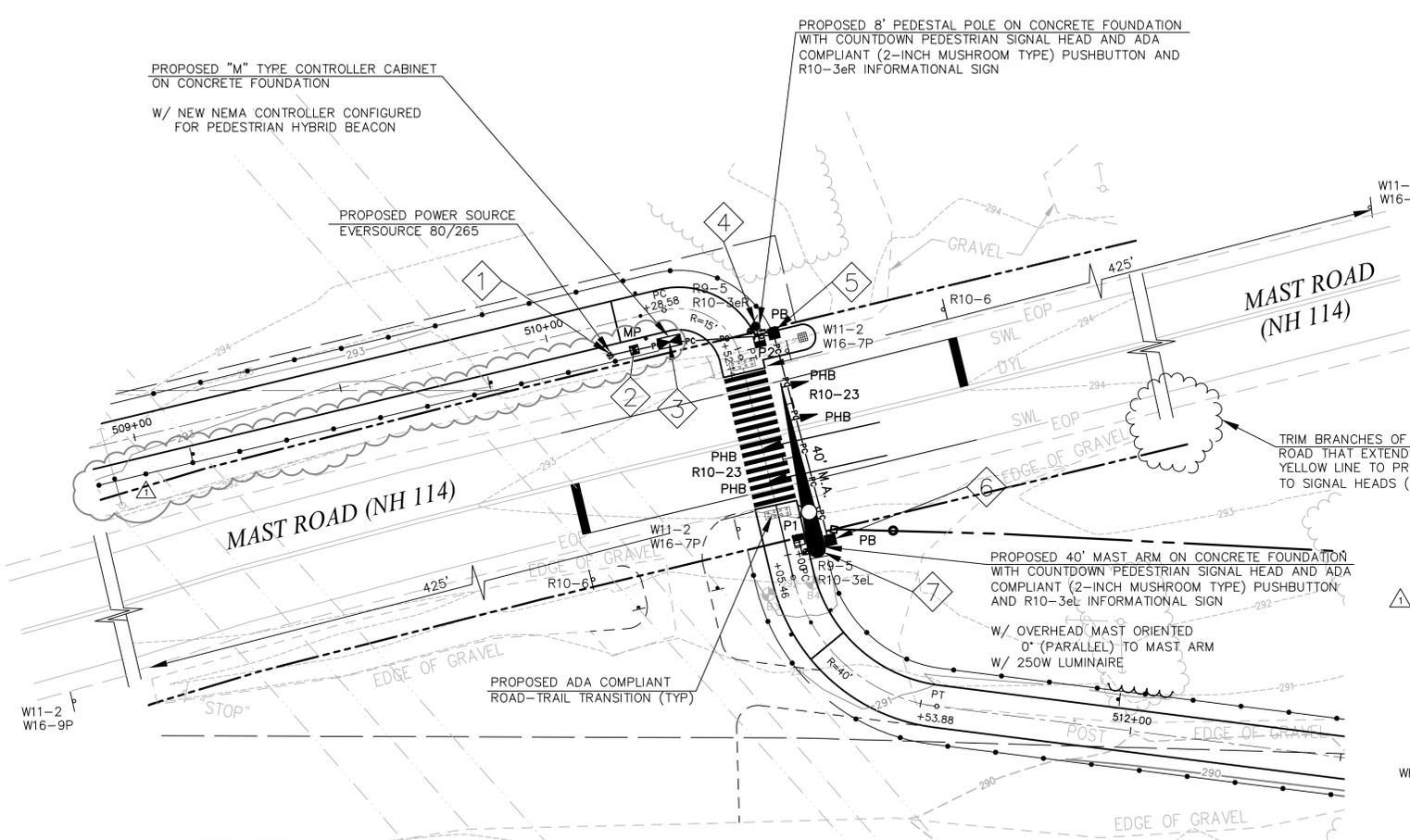
**PROPOSED CONDUIT SCHEDULE**

I.D.	NO.	LENGTH	SCHEDULE TYPE	REMARKS
1	1	6'	40	FROM POWER TO PROP MP
2	1	10'	40	FROM PROP MP TO PROP CC
3	1	25'	40	FROM PROP CC TO PROP PB
4	1	5'	40	FROM PROP PP TO PROP PB
5	1	51'	80	FROM PROP PB TO PROP PB
6	1	4'	40	FROM PROP PB TO PROP MA
<b>TOTAL:</b>		40	80	
		50'	51'	

WHERE:

- MA = MAST ARM FOUNDATION
- CC = CONTROL CABINET FOUNDATION
- PB = PULL BOX
- MP = METER PEDESTAL FOUNDATION
- PP = PEDESTAL POLE FOUNDATION

**PROPOSED SIGNS**



**TEST BORINGS**

HOLE ID	LOCATION
B-3	STA 511+08, RT 07'
B-4	STA 511+08, LT 04'

**PROPOSED FOUNDATION SCHEDULE**

I.D.	STATION	FOUNDATION TYPE	REMARKS
1	STA 510+15 RT 07'	-	PROPOSED POWER/EXISTING UTILITY POLE
2	STA 510+20 RT 07'	TSFND	PROPOSED METER PEDESTAL
3	STA 510+28 RT 07'	CCFND	PROPOSED CONTROLLER CABINET
4	STA 510+47 LT 07'	TSFND	PROPOSED PEDESTAL POLE
5	STA 510+50 LT 09'	PB	PROPOSED PULL BOX
6	STA 510+98 LT 11'	PB	PROPOSED PULL BOX
7	STA 511+00 LT 08'	TYPE 2-36R-A	W/ ANCHOR BOLTS FOR SIGNAL POLE

WHERE:

- TYPE # = TRAFFIC SIGNAL MAST ARM FOUNDATION CONSTRUCTED IN ACCORDANCE WITH NHDOT TRAFFIC SIGNAL STANDARD TS-1, TS-2, OR TS-3 AS APPLICABLE. TBD MEANS TO BE DETERMINED IN ACCORDANCE WITH GEOTECH REPORT
- PB = 14-INCH CONCRETE PULL BOX CONSTRUCTED IN ACCORDANCE WITH NHDOT SIGNAL AND LIGHTING STANDARD SL-1
- CCFND = CONCRETE FOUNDATION FOR CONTROLLER CABINETS CONSTRUCTED IN ACCORDANCE WITH NHDOT SIGNAL AND LIGHTING STANDARDS SL-2
- TSFND = CONCRETE FOUNDATION FOR PEDESTALS (SIGNAL AND METER) CONSTRUCTED IN ACCORDANCE WITH NHDOT SIGNAL AND LIGHTING STANDARDS SL-2

**PROPOSED NEMA DUAL RING CONTROLLER**

PROPOSED SIGNAL PHASING & TIMING						
	ø1	ø2	ø3	ø4	ø5	ø6
	STEADY DON'T WALK	STEADY DON'T WALK	STEADY DON'T WALK	WALK	FLASHING DON'T WALK; COUNTDOWN	STEADY DON'T WALK
DELAY	0	-	-	-	-	30
FLASH YELLOW	-	4	-	-	-	-
STEADY YELLOW	-	-	4	-	-	-
PEDESTRIAN WALK	-	-	-	4	-	-
PEDESTRIAN CLEAR	-	-	-	-	12	-
FLASH	DARK	-	-	-	-	-
RECALL	OFF	-	-	-	-	-

**CONSTRUCTION NOTES:**

- THE TERM "PROPOSED" (PROP) MEANS WORK TO BE CONSTRUCTED HEREIN USING NEW MATERIALS. THE TERM "REMOVE AND SALVAGE" (R+S) MEANS EQUIPMENT TO BE REMOVED AND DELIVERED TO A LOCATION AS DIRECTED BY THE ENGINEER. THE TERM "REMOVE AND RELOCATE" (R+R) MEANS EQUIPMENT TO BE REMOVED AND RE-USED AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- PAVEMENT SAWCUTTING FOR CONDUITS AND JACKING PITS (WHEN REQUIRED) SHALL BE SUBSIDIARY TO ITEM 616.3101. REPLACEMENT OF PAVEMENT FOR CONDUIT TRENCHES AND JACKING PITS WILL BE PAID UNDER ITEM 403.12 OR 403.99.
- MAST ARMS ON SIGNAL POLES SHALL BE ORIENTED PERPENDICULAR TO APPROACH ROADWAY ALIGNMENT UNLESS OTHERWISE NOTED.
- ALL MAST ARM POLE FOUNDATIONS SHALL INCLUDE A 12 INCH LAYER OF STRUCTURAL FILL BELOW THE BOTTOM OF THE FOOTING GRADE.
- ANY BEARING SURFACE MATERIAL DISTURBED BY EXCAVATION AND/OR BY DEWATERING METHODS SHALL BE REMOVED TO A DEPTH OF 12 INCHES AND REPLACED WITH STRUCTURAL FILL.
- PLACEMENT OF STRUCTURAL FILL MATERIAL SHALL BE SUBSIDIARY TO ITEM 616.3101.
- PERMANENT LIGHTING SHALL CONSIST OF ONE 250W HIGH PRESSURE SODIUM (HPS) FULL-CUTOFF TYPE 3 LUMINAIRE ON A 12-FOOT BRACKET ARM.
- SEE GENERAL PLANS FOR TRAIL APPROACHES AND PAVEMENT MARKINGS.



**ITEM 616.3101 - PEDESTRIAN HYBRID BEACON**

TOWN OF GOFFSTOWN, NEW HAMPSHIRE					
BICYCLE - PEDESTRIAN RAIL-TRAIL					
Signal Plan - Site 1			Mast Road		
ADDENDUM NO. 2		04/23/2015			
No.	Revision	Date	Appvd.		
<b>VHB</b> Vanasse Hangen Brustlin, Inc.					
DATE	VHB PROJECT NO.	DRAWING	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
DECEMBER 18, 2014	52168	52168-SIG	16029	15	34

REVISIONS AFTER PROPOSAL  
 STATION  
 STATION  
 DATE  
 NUMBER  
 DATE  
 DATE  
 DATE  
 DATE  
 SDR PROCESSED  
 NEW DESIGN  
 SHEET CHECKED  
 AS BUILT DETAILS

