



- Notes:
1. Foundation soil properties are based on unit weights and friction angles provided by VTrans – refer to design calculations for details.
 2. Min. concrete compressive strength: 3500 psi @ 28 days
 3. Reinforcing: ASTM A615 Grade 60
 4. Cast foundation against undisturbed earth or within a permanent steel casing.
 5. Install conduit per Owner specification.
 6. Extend foundation 4" above ground when in earth. Construct foundation flush when in concrete island or sidewalk.
 7. The design of the foundation follows VTrans MREI 10-01.
 8. Construct foundation in accordance with the current edition of the VTrans Standard Specifications for Construction.
 9. Refer to the plans prepared by VTrans (Project No. NH 2944(I)) for the location of underground utilities.
 10. Design Factors of Safety:
 - 10.1. Overturning: 3.0
 - 10.2. Bearing Capacity: 3.0
 - 10.3. Torsion: 1.1

Concrete Foundation Data					
Foundation ID	Diameter	Depth	Long. Bars	Tie Spacing	Concrete Vol. (CY)
MAP-1 : 40ft Arm with 12' Luminaire Arm	3'-6"	11'-0"	16-#6	1'-0"	4.9
MAP-2 : 30ft Arm with 12-ft Luminaire Arm	3'-6"	12'-0"	16-#6	1'-0"	5.3
MAP-3 : 30ft Arm with 12' Luminaire Arm	3'-6"	9'-0"	16-#6	1'-0"	4.2
MAP-4 : 35ft Arm with 10-ft Luminaire Arm	3'-6"	12'-0"	16-#6	1'-0"	5.3

SECTION A-A

Traffic Pole Foundation Design
Intersection of US Route 2 and Blair
Park Road/Harvest Lane

PROJECT: 17052
 DATE: 2017-09-13
 DRAWN: DSW

S-1


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CONSULTING ENGINEERS, P.C.
 103 Fairfax Rd.
 St. Albans, Vermont 05478
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