## Geotechnical Borings

**Project:** Replacement of Addison Road Bridge Over Salmon Brook

**Location:** Town of Glastonbury

<table>
<thead>
<tr>
<th>No.</th>
<th>Sample</th>
<th>Date</th>
<th>Depth</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>B-1</td>
<td>3/20/12</td>
<td>14.0'</td>
<td>Silty Sand, Silt, Gravel, Trace of Clay, Bottom of Working (at 14.0')</td>
</tr>
<tr>
<td>2</td>
<td>B-2</td>
<td>3/20/12</td>
<td>14.0'</td>
<td>Silty Sand, Silt, Gravel, Trace of Clay, Bottom of Working (at 14.0')</td>
</tr>
</tbody>
</table>

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**Legend:**
- Sample Type: B-1: Moderately Weathered Granite
- Sample Type: B-2: Moderately Weathered Granite
- Sample Length: 14.0'
- Sample Description: Silty Sand, Silt, Gravel, Trace of Clay, Bottom of Working (at 14.0')

**SkilledBr: Brower**

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**Anchor Engineering Services, Inc.**

**Address:**
41 Sequin Drive
Glastonbury, CT 06033

**Phone:** (860) 633-8770
**Fax:** (860) 633-5971

**Engineering Services, Inc.**

- Civil Engineering
- Land Surveying
- Environmental Consulting
- Construction Management
ABUTMENT 1 PLAN
SCALE 5" = 1'-0"

C ADDISON ROAD
SCALE 5" = 1'-0"

ABUTMENT 1 ELEVATION
SCALE 6" = 1'-0"

NOTE: FOR ADDITIONAL SECTIONS SEE SHEET NO. 17

ABUTMENT NO. 1
ARCH ELEMENT LAYOUT PLAN

SCALE: 1/16" = 1'-0"

ARCH ELEMENTS

SCALE: 1" = 1'-0"

SECTION L-L - TYPICAL ARCH JOINT

SCALE: 1" = 1'-0"

TYPICAL ABUTMENT SECTION

SCALE: 1/16" = 1'-0"

ARCH EXCEPT UNDER SPANDREL WALLS

PRECAST CONCRETE ARCH ELEMENT (SEE NOTES 1 & 2)

1. 4" DIAMETER WEEP HOLE (TYP.)
2. 2'-0" x 2'-0" BAGGED STONE AT WEEP HOLE (TYP.)
3. 2'-0" x 2'-0" BAGGED STONE (MIN.) AND 1'-0" x 1'-0" BACKER ROD (MAX.)(TYP.)

WINGWALL 1A
WINGWALL 1B
WINGWALL 2A
WINGWALL 2B
PRECAST ARCH ELEMENT
WATERPROOFING
MEMBRANE WATERPROOFING
WITH GEOTEXTILE (TYP.)
WITH GEOTEXTILE (TYP.)
NON-WOVEN GEOTEXTILE OVER ENTIRE MEMBRANE WATERPROOFING
4" DIAMETER WEEP HOLE (TYP.)
ARCH NO. 1
ARCH NO. 2
ARCH NO. 3
ARCH NO. 4
ARCH NO. 5
ARCH NO. 6
ARCH NO. 7
ARCH NO. 8
WINGWALL 3A
WINGWALL 3B
REINFORCEMENT WALL NO. 1
REINFORCEMENT WALL NO. 2
WALL NO. 2
WALL NO. 3
WALL NO. 4
WALL NO. 5
WALL NO. 6
L-ADDISON ROAD
STA. 20+97.975
STA. 20+64.975
STA. 20+81.48
L-B ADDISON ROAD
BEARING
BEARING ELEV. 87.25
BEARING ELEV. 91.38
ELEVATION BLD
SECTION L-L - TYPICAL ARCH JOINT

SCALE: 1" = 1'-0"

TYPICAL ABUTMENT SECTION

SCALE: 1/16" = 1'-0"

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SCALE: 1/16" = 1'-0"

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ARCH ELEMENTS

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SECTION L-L - TYPICAL ARCH JOINT

SCALE: 1" = 1'-0"

TYPICAL ABUTMENT SECTION

SCALE: 1/16" = 1'-0"
Submit color samples to the Engineer for approval prior to fabrication.

**Type A - Engineering Hard Coat.** The color of the anodizing shall be Black. The Contractor shall anodize the Metal Bridge Rail in conformance with the requirements of ASTM B580 (1998). The anodized color shall be confirmed prior to the requirements of ASTM B580. The Contractor shall provide the proper form and finishes required by the requirements of ASTM B580.

Anchorage...
STEEL WASHERS.

POST CONNECTION DEVICE DETAILS

SCALE: 1" = 1'-0"

RAIL SPLICE DETAILS

SCALE: 1" = 1'-0"

RAILING PARAPET

VERTICAL FACE

SLOPED FACE

FRONT FACE OF PARAPET

SECTION-END RAIL

3 5/16"

2 1/4"

4 -†

1" x 1" BEVEL

ELEVATION OF SPLICE BAR

BEVEL END OF RIDGE (TYP.)

ELEVATION

POST CONNECTION DEVICE DETAILS

SCALE: 1" = 1'-0"

METAL BRIDGE RAIL: The railing posts, post connection devices, splice bars and rails shall be extruded aluminum and conform to the requirements of ASTM B221, aluminum alloy 6061-T6 or 6005-T5. Metal bridge rails shall be cold-drawn stainless steel and conform to the requirements of ASTM A167, type 302. Nuts shall be stainless steel and conform to the requirements of ASTM F837, group 1 (ANSI type 304). Bars and rails shall be extruded aluminum and conform to the requirements of ASTM F593, group 1 (ANSI type 304). Riveting shall be done in accordance with Article 6.5 - Riveting of Structural Welding Code-Aluminum, ANSI/AWS D1.2. Aluminum welding shall be in accordance with the American Welding Society "Structural Welding Code-Aluminum", ANSI/AWS D1.2. Rebar shall have a sliding fit in the rail sections.

LENGTHS OF RAIL ELEMENTS SHALL BE CONTINUOUS OVER FOUR RAIL POSTS.

SPLICE BAR CONFORM TO ASTM B316, ALUMINUM ALLOY 6061-T6 OR 6005-T5.

3.50 TYP.

SCALE: 6" = 1' -0"

SCALE: 1" = 1' -0"

OPEN JOINT DIMENSION AT MAXIMUM SPACING 6'-0"

FOLLOW GRADE

ACCURATELY HELD IN POSITION PRIOR TO AND DURING THE PLACING OF CONCRETE. THE ANCHORAGES SHALL BE FIRMLY AND ACCURATELY HELD IN POSITION PRIOR TO AND DURING THE PLACING OF GRADE OF THE BRIDGE DECK. THE ANCHORAGES SHALL BE FIRMLY AND ACCURATELY HELD IN POSITION PRIOR TO AND DURING THE PLACING OF GRADE OF THE BRIDGE DECK. THE ANCHORAGES SHALL BE FIRMLY AND ACCURATELY HELD IN POSITION PRIOR TO AND DURING THE PLACING OF GRADE OF THE BRIDGE DECK. THE ANCHORAGES SHALL BE FIRMLY AND ACCURATELY HELD IN POSITION PRIOR TO AND DURING THE PLACING OF GRADE OF THE BRIDGE DECK.

WIRESTRUT (TYP.)

COLD DRAWN

0.312 OR 0.340 COLD DRAWN WIRE

ANCHOR

REVISIONS

PROJECT MANAGER

PROJ. ENGINEER

ENGINEERING SERVICES, INC.

Glastonbury, CT 06033

www.anchorengr.com

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