

BORING LOG NO. C-01
PROJECT: Salisbury National Cemetery
CLIENT: FourFront Design, Inc.
Rapid City, SD
SITE: 501 Statesville Blvd Salisbury, NC
LOCATION: See Exhibit A-2
DEPTH (ft) 0.3-4" Topsoil
FILL - SANDY SILT (ML) reddish brown and brown, medium stiff
3.5 SILTY SAND (SM) reddish brown, black, and tan, medium dense to dense, residuum
7-10-14 N=24
8-14-20 N=34
7-11-15 N=26
15-21-22 N=43
23.8 PARTIALLY WEATHERED ROCK, sampled as gray and tan SILTY SAND
Boring Terminated at 23.8 Feet
Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic
Advancement Method: Hollow Stem Auger
Abandonment Method: Boring backfilled with soil cuttings upon completion.
WATER LEVEL OBSERVATIONS: No free water observed.
Terracon
Boring Started: 11/6/2015 Boring Completed: 11/6/2015
Drill Rig: D-50 Driller: E. Rummage
Project No: 71155065 Exhibit: A-6

BORING LOG NO. C-02
PROJECT: Salisbury National Cemetery
CLIENT: FourFront Design, Inc.
Rapid City, SD
SITE: 501 Statesville Blvd Salisbury, NC
LOCATION: See Exhibit A-2
DEPTH (ft) 0.3-4" Topsoil
FILL - SILTY SAND (SM) brown, loose
3.5 FILL - SANDY SILT (ML) dark brown, stiff
8.0 SILTY SAND (SM) tan, gray and black, medium dense to dense, residuum
7-8-14 N=22
9-15-23 N=38
10-20-23 N=43
15-24-27 N=51
22-30-50 N=80
18.5 SANDY SILT (ML) white, gray and tan, hard, residuum
25.0 Boring Terminated at 25 Feet
Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic
Advancement Method: Hollow Stem Auger
Abandonment Method: Boring backfilled with soil cuttings upon completion.
WATER LEVEL OBSERVATIONS: No free water observed.
Terracon
Boring Started: 11/6/2015 Boring Completed: 11/6/2015
Drill Rig: CME-650X Driller: J. Cain
Project No: 71155065 Exhibit: A-7

BORING LOG NO. R-01
PROJECT: Salisbury National Cemetery
CLIENT: FourFront Design, Inc.
Rapid City, SD
SITE: 501 Statesville Blvd Salisbury, NC
LOCATION: See Exhibit A-2
DEPTH (ft) 0.3-4" Topsoil
FILL - SANDY LEAN CLAY (CL) reddish brown, medium stiff
3.5 SILTY SAND (SM) reddish brown and tan, medium dense, residuum
6-6-7 N=13
4-7-9 N=16
6-7-9 N=16
Boring Terminated at 10 Feet
Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic
Advancement Method: Hollow Stem Auger
Abandonment Method: Boring backfilled with soil cuttings upon completion.
WATER LEVEL OBSERVATIONS: No free water observed.
Terracon
Boring Started: 11/6/2015 Boring Completed: 11/6/2015
Drill Rig: D-50 Driller: E. Rummage
Project No: 71155065 Exhibit: A-11

BORING LOG NO. R-02
PROJECT: Salisbury National Cemetery
CLIENT: FourFront Design, Inc.
Rapid City, SD
SITE: 501 Statesville Blvd Salisbury, NC
LOCATION: See Exhibit A-2
DEPTH (ft) 0.3-4" Topsoil
FILL - SANDY SILT (ML) brown, soft
3.5 SILTY SAND (SM) bluish gray, very soft, alluvium
0-0-0 N=0
0-0-0 N=0
2-1-2 N=3
Auger Refusal at 12 Feet
Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic
Advancement Method: Hollow Stem Auger
Abandonment Method: Boring backfilled with soil cuttings upon completion.
WATER LEVEL OBSERVATIONS: At completion of drilling.
Terracon
Boring Started: 11/6/2015 Boring Completed: 11/6/2015
Drill Rig: D-50 Driller: E. Rummage
Project No: 71155065 Exhibit: A-12

BORING LOG NO. R-03
PROJECT: Salisbury National Cemetery
CLIENT: FourFront Design, Inc.
Rapid City, SD
SITE: 501 Statesville Blvd Salisbury, NC
LOCATION: See Exhibit A-2
DEPTH (ft) 0.3-4" Topsoil
FILL - POORLY GRADED SAND WITH CLAY (SP-SC) orange and black, medium dense
4-4-6 N=10
6-6-9 N=15
13-9-12 N=21
7-9-20 N=29
Boring Terminated at 10 Feet
Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic
Advancement Method: Hollow Stem Auger
Abandonment Method: Boring backfilled with soil cuttings upon completion.
WATER LEVEL OBSERVATIONS: No free water observed.
Terracon
Boring Started: 11/6/2015 Boring Completed: 11/6/2015
Drill Rig: D-50 Driller: E. Rummage
Project No: 71155065 Exhibit: A-13

BORING LOG NO. R-04
PROJECT: Salisbury National Cemetery
CLIENT: FourFront Design, Inc.
Rapid City, SD
SITE: 501 Statesville Blvd Salisbury, NC
LOCATION: See Exhibit A-2
DEPTH (ft) 0.3-4" Topsoil
FILL - SANDY LEAN CLAY (CL) trace gravel, reddish brown, medium stiff
2-2-3 N=5
6-7-8 N=16
6-7-8 N=15
8-12-12 N=24
10.0 SILTY SAND (SM) tan, brown and gray, medium dense, residuum
Boring Terminated at 10 Feet
Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic
Advancement Method: Hollow Stem Auger
Abandonment Method: Boring backfilled with soil cuttings upon completion.
WATER LEVEL OBSERVATIONS: No free water observed.
Terracon
Boring Started: 11/6/2015 Boring Completed: 11/6/2015
Drill Rig: D-50 Driller: E. Rummage
Project No: 71155065 Exhibit: A-14

BORING LOG NO. R-05
PROJECT: Salisbury National Cemetery
CLIENT: FourFront Design, Inc.
Rapid City, SD
SITE: 501 Statesville Blvd Salisbury, NC
LOCATION: See Exhibit A-2
DEPTH (ft) 0.3-4" Topsoil
FILL - CLAYEY SAND (SC) reddish brown and black, medium dense
3-5-8 N=13
8-8-10 N=19
8-12-26 N=38
8-10-10 N=20
Boring Terminated at 10 Feet
Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic
Advancement Method: Hollow Stem Auger
Abandonment Method: Boring backfilled with soil cuttings upon completion.
WATER LEVEL OBSERVATIONS: No free water observed.
Terracon
Boring Started: 11/6/2015 Boring Completed: 11/6/2015
Drill Rig: D-50 Driller: E. Rummage
Project No: 71155065 Exhibit: A-15

BORING LOG NO. R-06
PROJECT: Salisbury National Cemetery
CLIENT: FourFront Design, Inc.
Rapid City, SD
SITE: 501 Statesville Blvd Salisbury, NC
LOCATION: See Exhibit A-2
DEPTH (ft) 0.3-4" Topsoil
FILL - SANDY LEAN CLAY WITH GRAVEL (CL) gray and reddish brown, hard
50.0'
3-4-7 N=11
4-6-7 N=13
3-4-6 N=10
Boring Terminated at 10 Feet
Stratification lines are approximate. In-situ, the transition may be gradual.
Hammer Type: Automatic
Advancement Method: Hollow Stem Auger
Abandonment Method: Boring backfilled with soil cuttings upon completion.
WATER LEVEL OBSERVATIONS: No free water observed.
Terracon
Boring Started: 11/6/2015 Boring Completed: 11/6/2015
Drill Rig: D-50 Driller: E. Rummage
Project No: 71155065 Exhibit: A-16

NOTE: REFER TO GEOTECHNICAL REPORT IN SPECIFICATIONS FOR MORE INFORMATION.

Table with 2 columns: Revisions, Date

CONSULTANTS:
Terracon Consulting Engineers and Scientists
PEAKS TO PLAINS DESIGN
Aqua Engineering Inc
Albertson Engineering Inc.



ARCHITECT/ENGINEERS:
FOURFRONT DESIGN INC.
517 7th street rapid city sd 57701
p 605.342.9470 f 605.342.2377 www.4front.biz

Drawing Title: BORING LOGS (C-SERIES AND R-01 TO R-06)
Approved Project Director

Project Title: SALISBURY NATIONAL CEMETERY GRAVESITE EXPANSION
Location: SALISBURY NATIONAL CEMETERY SALISBURY, NC
Date: 7/22/16
Checked: CZ
Drawn: JM
Project Number: 876CM3021
Building Number: N/A
Drawing Number: B-103
Dwg. 6 of 63

BID DOCUMENTS

NCA DESIGN AND CONSTRUCTION SERVICE
Department of Veterans Affairs