03 - BORINGS
INDEX OF DRAWINGS

DRAWING NUMBER	DRAWING TITLE	DRAWING NUMBER	DRAWING TITLE
B-001	EXISTING CONDITIONS AND BORING LOCATIONS		
B-002	BORING LOGS		

THE DESIGN APPEARS TO CONFORM TO APPLICABLE CRITERIA. APPROVAL IS NOT TO BE CONSTRUED TO MEAN THAT ALL ASPECTS OF THE DESIGN HAVE BEEN PERSONALLY CHECKED BY THE UNDERSIGNED.

Theodore H. Nezames
2012.09.11 16:13:48
-04'00'

TRANSPORTATION PRINCIPAL ENGINEER

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 8/30/2012

DESIGNER/DRAFTER:

CHECKED BY:

SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FD_MSH_BOR_092_0549_B000.dgn

SIGNATURE/ BLOCK:

OFFICE OF ENGINEERING

APPROVED BY:

PROJECT TITLE:

SEA STREET
SALT STORAGE FACILITY

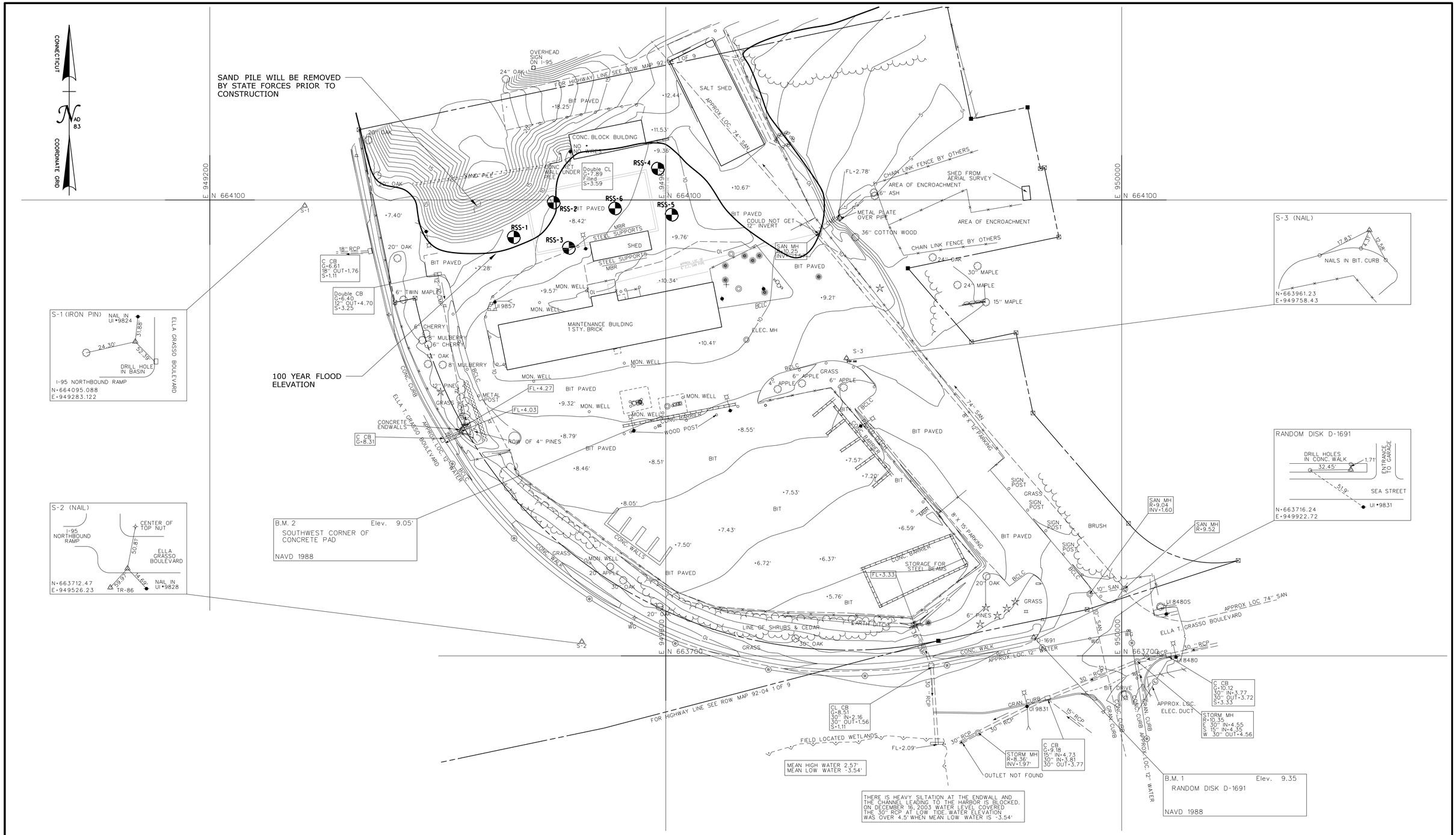
TOWN: NEW HAVEN

DRAWING TITLE: BORINGS
LIST OF DRAWINGS

PROJECT NO. 92-549

DRAWING NO. B-000

SHEET NO. 03.01



REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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THE INFORMATION, INCLUDING ESTIMATED QUANTITIES OF WORK, SHOWN ON THESE SHEETS IS BASED ON LIMITED INVESTIGATIONS BY THE STATE AND IS IN NO WAY WARRANTED TO INDICATE THE CONDITIONS OF ACTUAL QUANTITIES OF WORK WHICH WILL BE REQUIRED.

Plotted Date: 8/13/2012

DESIGNER/DRAFTER: **SLM**

CHECKED BY: **LM**

SCALE IN FEET 0 40 80

SCALE 1"=40'

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FD_MSH_BOR_0092_0549_B001.dgn

SIGNATURE/ BLOCK: **OFFICE OF ENGINEERING**

APPROVED BY: DATE:

PROJECT TITLE: **SEA STREET SALT STORAGE FACILITY**

TOWN: **NEW HAVEN**

DRAWING TITLE: **EXISTING CONDITIONS AND BORING LOCATIONS**

PROJECT NO. **92-549**

DRAWING NO. **B-001**

SHEET NO. **03.02**

Driller: Tony Malloy	**Connecticut DOT Boring Report**		Hole No.: RSS-1
Inspector: Glenn L. Arzt	Town: NEW HAVEN		Stat./Offset:
Engineer: Eric Mogor	Project No.:0092-0549		Northing: 664067
Start Date: 11/17/2010	Route No.:		Easting: 949464
Finish Date:11/17/2010	Bridge No.:		Surface Elevation: 7.3
Project Description:Sea Street Salt Storage Facility			
Casing Size/Type:FJ-HW/4	Sampler Type/Size:1.375		Core Barrel Type:NQ2
Hammer Wt.140 Fall: 30	Hammer Wt.:140	Fall: 30	
Groundwater Observations @7.4 after 0 hours, @ after hours, @ after hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						MISC. FILL	4 inches Asphalt over Brown f-c SAND, little c-f Gravel, little Silt	5
5	S-1	8 7 5 6	24	18			Brown f-c SAND, little c-f Gravel, little Silt	
						ORGANIC SILT		0
10	S-2	1 1 1 1	24	18			Dark-Gray Organic SILT, trace Shell	-5
15	S-3	1 0 0 0	24	24		SAND	Gray f-c SAND and SILT	-10
20	S-4	0 0 0 0	24	24			Gray f-c SAND and SILT	-15
25	S-5	0 0 0 0	24	20			Gray f-c SAND and SILT	
	S-6	0 0 2 2	24	24			Gray f-c SAND, little Silt, trace c-f Gravel	-20
30							Bottom of Boring @32 feet	-25

Sample Type: S=Split Spoon C=Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 32 Rock:	NOTES:	Sheet 1 of 1
No. of Samples: 6		SM-001-M REV. 1/02

Driller: Tony Malloy	**Connecticut DOT Boring Report**		Hole No.: RSS-2
Inspector: Glenn L. Arzt	Town: NEW HAVEN		Stat./Offset:
Engineer: Eric Mogor	Project No.:0092-0549		Northing: 664087
Start Date: 11/17/2010	Route No.:		Easting: 949501
Finish Date:11/17/2010	Bridge No.:		Surface Elevation: 8
Project Description:Sea Street Salt Storage Facility			
Casing Size/Type:FJ-HW/4	Sampler Type/Size:1.375		Core Barrel Type:NQ2
Hammer Wt.140 Fall: 30	Hammer Wt.:140	Fall: 30	
Groundwater Observations @7.0 after 0 hours, @ after hours, @ after hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						MISC. FILL	4 inches ASPHALTover Brown f-c SAND, little c-f Gravel, little Silt	5
5	S-1	23 11 5 4	24	0			Brown f-c SAND, little c-f Gravel, little Silt	
						ORGANIC SILT		0
10	S-2	3 1 1 1	24	10			Dark-Gray Organic SAND and SILT, trace Shell	-5
15	S-3	0 0 0 0	24	0		SAND	No Recovery	-10
20	S-4	0 0 0 0	24	0			No Recovery	-15
25	S-5	0 0 0 0	24	24			Gray f-c SAND, little Silt, little c-f Gravel	-20
30	S-6	0 0 0 0	24	24			Gray c-f SAND, little Silt, little f-c Gravel	-25
35	S-7	0 2 2 2	24	2			Red Brown f-c SAND, trace Silt, trace c-f Gravel	-30
40	S-8	5 5 5 5	24	24		SILTY SAND	Brown f-c SAND, trace Silt, trace c-f Gravel	-35
45	S-9	2 2 2 2	24	24			Brown f-c SAND, trace Silt, trace c-f Gravel	-40
50	S-10	0 0 0 0	24	6			Red-Brown f-c SAND, little Silt	-45
							Bottom of Boring @ 52 feet	

Sample Type: S=Split Spoon C=Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 52 Rock:	NOTES: Observered from washout	Sheet 1 of 1
No. of Samples: 10		SM-001-M REV. 1/02

Driller: Tony Malloy	**Connecticut DOT Boring Report**		Hole No.: RSS-3
Inspector: Glenn L. Arzt	Town: NEW HAVEN		Stat./Offset:
Engineer: Eric Mogor	Project No.:0092-0549		Northing: 664057
Start Date: 11/16/2010	Route No.:		Easting: 949514
Finish Date:11/17/2010	Bridge No.:		Surface Elevation: 8.6
Project Description:Sea Street Salt Storage Facility			
Casing Size/Type:FJ-HW/4	Sampler Type/Size:1.375		Core Barrel Type:NQ2
Hammer Wt.140 Fall: 30	Hammer Wt.:140	Fall: 30	
Groundwater Observations @6.0 after 0 hours, @ after hours, @ after hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						MISC. FILL	4 inches ASPHALT over Brown f-c SAND, little c-f Gravel, little Silt	5
5	S-1	3 4 3 6	24	24			Red-Brown c-f SAND, little f-c Gravel, trace Silt	
						ORGANIC SILT		0
10	S-2	2 1 0 1	24	14			Dark-Gray Organic SAND and SILT, trace Shell	-5
15	S-3	1 1 1 1	24	3		SAND	Dark-Gray Organic SAND and SILT, trace Shell	-10
20	S-4	1 1 1 0	24	12			Gray f-c SAND AND SILT	-15
25	S-5	0 0 0 0	24	24			Gray f-c SAND, some Silt, trace f-c Gravel	-20
30	S-6	0 0 0 0	24	24			Gray f-c SAND, some Silt, trace f-c Gravel	-25
35	S-7	5 5 6 5	24	24		SILTY SAND	Red-Brown c-f SAND, little f-c Gravel, trace Silt	-30
40	S-8	1 1 1 1	24	24			Red-Brown c-f SAND, little f-c Gravel, trace Silt	-35
45	S-9	0 0 1 6	24	24			Red-Brown c-f SAND, little f-c Gravel, trace Silt	-40
50	S-10	3 6 4 4	24	18			Red-Brown c-f SAND, little f-c Gravel, trace Silt	
							Bottom of Boring @52 feet	

Sample Type: S=Split Spoon C=Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 52 Rock:	NOTES:	Sheet 1 of 1
No. of Samples: 10		SM-001-M REV. 1/02

Driller: Tony Malloy	**Connecticut DOT Boring Report**		Hole No.: RSS-4
Inspector: Glenn L. Arzt	Town: NEW HAVEN		Stat./Offset:
Engineer: Eric Mogor	Project No.:0092-0549		Northing: 664127
Start Date: 11/16/2010	Route No.:		Easting: 949593
Finish Date:11/16/2010	Bridge No.:		Surface Elevation: 9.4
Project Description:Sea Street Salt Storage Facility			
Casing Size/Type:FJ-HW/4	Sampler Type/Size:1.375		Core Barrel Type:NQ2
Hammer Wt.140 Fall: 30	Hammer Wt.:140	Fall: 30	
Groundwater Observations @7.5 after 0 hours, @ after hours, @ after hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						MISC. FILL	4 inches of ASPHALT over Brown C-F SAND and c-f GRAVEL, trace Silt	5
5	S-1	2 2 4 10	24	16			Brown C-F SAND and c-f GRAVEL, trace Silt	
						ORGANIC SILT		0
10	S-2	5 6 3 2	24	14			Dark-Gray Organic SILT, trace shell	-5
15	S-3	1 0 0 0	24	24		SAND	Gray f-c SAND, some Silt, trace c-f Gravel	-10
20	S-4	0 0 0 0	24	24			Gray f-c SAND and SILT	-15
25	S-5	0 0 0 0	24	24			Gray f-c SAND and SILT	-20
30	S-6	0 0 0 0	24	24			Gray f-c SAND and SILT	-25
35	S-7	2 7 9 12	24	24		SILTY SAND	Red-Brown f-c SAND, some Silt	-30
40	S-8	1 0 0 0	24	24			Red-Brown f-c SAND, some Silt	-35
45	S-9	1 0 0 0	24	24			Red-Brown f-c SAND, some Silt	-40
50	S-10	0 1 2 3	24	24			Red Brown c-f SAND, little c-f Gravel, trace Silt	
							Bottom of Boring @ 52 feet	

Sample Type: S=Split Spoon C=Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 52 Rock:	NOTES:	Sheet 1 of 1
No. of Samples: 10		SM-001-M REV. 1/02

Driller: Tony Malloy	**Connecticut DOT Boring Report**		Hole No.: RSS-5
Inspector: Glenn L. Arzt	Town: NEW HAVEN		Stat./Offset:
Engineer: Eric Mogor	Project No.:0092-0549		Northing: 664087
Start Date: 11/16/2010	Route No.:		Easting: 949605
Finish Date:11/16/2010	Bridge No.:		Surface Elevation: 9.7
Project Description:Sea Street Salt Storage Facility			
Casing Size/Type:FJ-HW/4	Sampler Type/Size:1.375		Core Barrel Type:NQ2
Hammer Wt.140 Fall: 30	Hammer Wt.:140	Fall: 30	
Groundwater Observations @7.5 after 0 hours, @ after hours, @ after hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						MISC. FILL	4 inches of ASPHALT over Brown f-c SAND, some c-f Gravel, little Silt	5
5	S-1	4 4 2 1	1	8			Brown f-c SAND, some c-f Gravel, little Silt	
						ORGANIC SILT		0
10	S-2	1 1 1 2	24	8			Dark Gray Organic SAND AND SILT, trace shell with glass	-5
15	S-3	1 2 1 1	24	2		SAND	Dark-Gray f-c SAND, some Silt	-10
20	S-4	0 0 0 0	2	24			Gray f-c SAND, some Silt	-15
25	S-5	0 0 0 0	24	24			Gray f-c SAND, some Silt	-20
30	S-6	0 0 0 0	24	24			Gray f-c SAND, some Silt	-25
35	S-7	3 6 4 5	24	18		SILTY SAND	Red Brown f-c SAND, some Silt	-30
40	S-8	1 2 2 2	24	24			Red Brown f-c SAND, some Silt	-35
45	S-9	2 2 3 2	24	25			Red Brown f-c SAND, some Silt	-40
50	S-10	1 2 2 3	24	24			Red Brown c-f SAND, little c-f Gravel, trace Silt	
							Bottom of Boring @52 feet	

Sample Type: S=Split Spoon C=Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 52 Rock:	NOTES:	Sheet 1 of 1
No. of Samples: 10		SM-001-M REV. 1/02

Driller: Tony Malloy	**Connecticut DOT Boring Report**		Hole No.: RSS-6
Inspector: Glenn L. Arzt	Town: NEW HAVEN		Stat./Offset:
Engineer: Eric Mogor	Project No.:0092-0549		Northing: 664092
Start Date: 11/16/2010	Route No.:		Easting: 949555
Finish Date:11/16/2010	Bridge No.:		Surface Elevation: 8.9
Project Description:Sea Street Salt Storage Facility			
Casing Size/Type:FJ-HW/4	Sampler Type/Size:1.375		Core Barrel Type:NQ2
Hammer Wt.140 Fall: 30	Hammer Wt.:140	Fall: 30	
Groundwater Observations @6.7 after 0 hours, @ after hours, @ after hours			

Depth (ft)	Sample Type/No.	Blows on Sampler per 6 inches	Pen. (in.)	Rec. (in.)	RQD %	Generalized Strata Description	Material Description and Notes	Elevation (ft)
0						MISC. FILL	4 inches of ASPHALT over Brown f-c SAND, little Silt	5
5	S-1	6 6 7 7	24	24			Brown f-c SAND, little Silt	
						ORGANIC SILT		0
10	S-2	1 0 0 6	17	17			Dark-Gray organic Sand and Silt	-5
15	S-3	1 1 1 0	24	24		SAND	Dark Gray f-c SAND, some Silt, trace shell	-10
20	S-4	0 0 0 0	24	24			Gray f-c SAND, some Silt	-15
25	S-5	0 0 0 0	24	24			Gray f-c SAND, some Silt	-20
30	S-6	0 0 0 0	24	24			Gray f-c SAND, some Silt, trace shell	-25
35	S-7	1 3 3 2	24	24		SILTY SAND	Red-Brown f-c SAND, some Silt	-30
40	S-8	3 3 2 3	24	18			Red-Brown f-c SAND, some Silt	-35
45	S-9	2 3 5 4	24	15			Red-Brown f-c SAND, some Silt	-40
50	S-10	2 3 3 5	24	24			Red-Brown f-c SAND, some Silt	
							Bottom of Boring @ 52 feet	

Sample Type: S=Split Spoon C=Core UP = Undisturbed Piston V = Vane Shear Test
Proportions Used: Trace = 1 - 10%, Little = 10 - 20%, Some = 20 - 35%, And = 35 - 50%

Total Penetration in Earth: 52 Rock:	NOTES:	Sheet 1 of 1
No. of Samples: 10		SM-001-M REV. 1/02

NOTE:

THE SUBSURFACE INVESTIGATION FURNISHED IS BASED ON THE INTERPRETATION BY THE DEPARTMENT, OF INVESTIGATIONS MADE ONLY AT THE SPECIFIC LOCATIONS INDICATED. NO ASSURANCE IS GIVEN THAT THESE CONDITIONS ARE NECESSARILY TYPICAL OF OTHER LOCATIONS OR THAT THEY HAVE REMAINED UNCHANGED SINCE THE FIELD DATA WAS OBTAINED. NO ASSURANCE IS GIVEN THAT THE PRESENCE OR ABSENCE OF WATER IN SUBSURFACE EXPLORATION AT THE TIME OF THESE EXPLORATIONS WILL BE REPRESENTATIVE OF ACTUAL CONDITIONS AT THE TIME OF CONSTRUCTION. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL ASSUMPTIONS, DEDUCTIONS, OR CONCLUSIONS IT MAY MAKE OR DERIVE FROM ITS EXAMINATION.

REV.	DATE	REVISION DESCRIPTION	SHEET NO.
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Plotted Date: 8/13/2012

DESIGNER/DRAFTER: **SLM**
CHECKED BY: **LM**
SCALE AS NOTED

STATE OF CONNECTICUT
DEPARTMENT OF TRANSPORTATION

Filename: ...\FD_MSH_BOR_0092_0549_B002.dgn

SIGNATURE/BLOCK:
OFFICE OF ENGINEERING
APPROVED BY: DATE:

PROJECT TITLE:
SEA STREET SALT STORAGE FACILITY

TOWN: **NEW HAVEN**
DRAWING TITLE: **BORING LOGS**

PROJECT NO. **92-549**
DRAWING NO. **B-002**
SHEET NO. **03.03**