

SM 282 E 12/02

PSN BORNUM FHB-3
 DIVISION Syracuse
 COUNTY Herkimer
 PIN S52886
 ROUTE Thruway Mainline
 MILEPOST 225.48
 PROJECT Syracuse Division 2017 Design-Build Bridge Replacements



NEW YORK STATE THRUWAY AUTHORITY
 NEW YORK STATE CANAL CORPORATION
SUBSURFACE EXPLORATION LOG



HOLE LINE STA FH-B
 OFFSET ft
 SURF. ELEV. 455.0402, NAD 88
 DEPTH TO WATER 34.0

COORDINATES (Lat) 43.062477°N (Long) 75.078747°W

DATE START 1/5/2017 DATE FINISH 1/5/2017

AUGER 4 1/4" I.D. HOLLOW STEM FLIGHT AUGER WT OF HAMMER-CASING lb HAMMER FALL-CASING in
 CASING O. D. in I. D. in WT OF HAMMER-SAMPLER 140 lb HAMMER FALL-SAMPLER 30 in
 SAMPLER O. D. 2 in I. D. 1-3/8 in HAMMER TYPE Safety

CASING BLOWS/ft	DEPTH (ft.) BELOW SURFACE	SAMPLE NO.	BLOWS ON SAMPLER (in.)				MOIST. CONT. (%)	Soil Recovery (in.)	Rock Recovery (ft.)	DESCRIPTION OF SOIL AND ROCK
			0-6	6-12	12-18	18-24				
0.0									Dark gray asphalt pavement to 0.9 feet.	
5.0		SS1	12	12	5	10	20.2%	14	Brown to black (SAND-SILT-CLAY) fill with 15 to 25% gravel, little clay, trace to little sand, very stiff, massive soil structure, (ML-CL). M - PL	
10.0		SS2	4	11	7	5	19.4%	9	Light brown to brown (SILTY-CLAY) fill with 5 to 15% gravel, trace sand, very stiff, massive soil structure, (CL). M - PL	
15.0		SS3	4	5	7	8	13.2%	19	14.0-15.0' Brown (SILTY-SAND) with mostly very fine to fine size sand, trace to little silt, compact, weakly thinly bedded, (SM). 15.0-16.0' Grayish brown (SILTY-SAND) with 3 to 7% gravel, mostly very fine to fine size sand, trace silt, compact, (SP). M - NPL	
20.0		SS4	9	6	7	8	3.7%	18	Same as 15.0-16.0' M - NPL	
25.0		SS5	9	8			4.9%	20	Same as 15.0-16.0' M - NPL	

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DRILL RIG OPERATOR Philip Bence
 SOIL & ROCK DESCRIPTION Brandon Mikolin
 INSPECTOR Matthew Conley (Stantec)
 BIN 5516071 & 5516072
 STRUCTURE NAME Thruway/Millers Grove Rd. (C.R. 53)

CONTRACT _____ CONTRACTOR Earth Dimensions, Inc.

SHEET 1 OF 4 HOLE FH-B

TWWY-CAN SUBSURF EXPLORATION 6K16_BIN-5516071&5516072-DRAFTS.GPJ TWWYSETMPL_V05.GDT 3/31/17

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			0-6	6-12	12-18	18-24				
25.0					10	10				
30.0		SS6	5	3	4	5	10.0%	17	Grayish brown (SILTY-SAND) with mostly very fine to fine M - NPL size sand, trace silt, loose, (SP).	
35.0		SS7	1	1	1	2	33.7%	15	Light brown to brown (SILTY-SAND) with mostly very fine S - NPL to fine size sand, trace to little silt, very loose, weakly thinly bedded, (SM).	
40.0		SS8	WR	1	6	7	20.8%	20	39.0-40.0' Same as 34.0-36.0' S - NPL 40.0-41.0' Brown (SILTY-SAND) with 10 to 20% gravel, mostly very fine to coarse size sand, trace to little silt, loose, stratified, (SW).	
45.0		SS9	10	16	50/5		10.9%	16	Brown gravelly (SILTY-SAND) with 15 to 40% gravel, mostly very fine to coarse size sand, little silt, very dense, stratified, (SW). S - NPL	
50.0		SS10	50/2				-%	0	No recovery.	

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SHEET 2 OF 4 HOLE FH-B

TWWY-CAN SUBSURF EXPLORATION 6K16_BIN-5516071&5516072-DRAFTS.GPJ TWWYSETMPL_V05.GDT 3/31/17



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			0-6	6-12	12-18	18-24				
50.0										
55.0		SS11	27	29	44	44	18.1%	21	54.0-55.0' Gray (SILTY-SAND) with mostly very fine to fine size sand, trace silt, very dense, (SP). 55.0-56.0' Gray (SILTY-CLAY) hard, thinly laminated with very thin silt lenses, (CL). S - PL	
60.0		SS12	7	24	46	50/4	19.8%	18	Gray (SILTY-SAND) with mostly very fine to fine size sand, trace silt, very dense, (SP). S - NPL	
65.0		SS13	3	21	40	50/4	22.5%	20	Same as 59.0-61.0' S - NPL	
70.0		SS14	4	27	50/5		19.7%	15	Same as 59.0-61.0' S - NPL	

BOTTOM OF HOLE AT 70.40 ft

Note:
 Advanced bore hole with 4 1/4" ID x 8" OD hollow stem auger casing with 5.0-foot interval sampling to 70.4 feet. Bore hole was backfilled with cuttings and ground surface was repaired with an asphalt patch.

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HOLE FH-B

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			0-6	6-12	12-18	18-24				

DATE	TIME	DEPTH (ft.)			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
05-Jan-17	10:00	35.00	34.00	34.00	NO	No
05-Jan-17	13:00	70.40	69.00	35.00	NO	No

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			0-6	6-12	12-18	18-24				
0.0									Dark gray asphalt pavement to 0.8 feet.	
5.0		SS1	15	10	10	10	6.2%	17	Dark brown gravelly (SANDY-SILT) fill with 15 to 30% gravel, some sand, compact to dense, massive soil structure, (ML). M - NPL	
10.0		SS2	16	19	13	19	7.5%	12	Same as 4.0-6.0' M - NPL	
15.0		SS3	15	15	18	16	8.0%	8	Same as 4.0-6.0' M - NPL	
20.0		SS4	15	6	15	9	12.0%	10	Dark brown gravelly (SANDY-SILT) fill with 10 to 20% gravel, little to some sand, trace clay, compact, massive soil structure, (ML). M - NPL	
25.0		SS5	WR	1			21.1%	22	24.0-25.0' Brown (SILTY-SAND) with 3 to 7% gravel, mostly very fine to fine size sand, trace silt, organic matter, M - PL	

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TWAY-CAN SUBSURF EXPLORATION 6K16_BIN-5516071&5516072-DRAFTS.GPJ TWYSETTmpl_V05.GDT 3/31/17

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			0-6	6-12	12-18	18-24				
25.0					4				very loose, weakly thinly bedded to massive soil structure, (SM). 25.0-26.0' Faintly mottled grayish brown (CLAYEY-SILT) with 5 to 10% gravel, some clay, trace sand, firm, weakly thinly laminated to massive soil structure, (CL).	
30.0		SS6	7	12	16	28.8%	22		Faintly mottled brown to grayish brown (CLAYEY-SILT) with 0 to 3% gravel, little clay, trace sand and organic matter, very stiff, weakly thinly laminated, (ML-CL). M - LPL	
35.0		SS7	2	3	4	29.4%	20		Brown (SAND) mostly very fine to fine size, very loose to loose, weakly thinly bedded, (SP). S - NPL	
40.0		SS8	WR	1	3	31.0%	24		Same as 34.0-36.0' S - NPL	
45.0		SS9	WR	1	1	24.5%	24		Same as 34.0-36.0' S - NPL	
50.0		SS10	2	10		22.8%	24		49.0-49.5' Same as 34.0-36.0' S - NPL 49.5-51.0' Brown (SANDY-SILT) with trace mostly very fine	

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			0-6	6-12	12-18	18-24				
50.0					15	11			size sand, compact, weakly thinly bedded, (ML).	
55.0		SS11	40	25	22	50/4	13.6%	20	Brown gravelly (SILTY-SAND) with 15 to 30% gravel, trace to little silt, occasional cobble, dense to very dense, weakly stratified to massive soil structure, (SM). S - NPL	
60.0		SS12	6	31	50/4		18.6%	16	Gray (SAND) with mostly very fine to fine size, trace silt, very dense, (SP). S - NPL	
65.0		SS13	30	50/3			22.7%	8	Same as 59.0-61.0' S - NPL	
70.0		SS14	50/4				20.0%	4	Gray (SANDY-SILT) with some mostly very fine size sand, very dense, weakly thinly bedded, (ML). S - NPL	
75.0		SS15	50/3				21.9%	3	Same as 69.0-71.0' S - NPL	

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			0	6	12	18	24				
	75.0										
	80.0	SS16	38	48	50/5		17.7%	17		Moist gray (SILTY-CLAY) hard, thinly laminated with very thin silt lenses, (CL). M - PL	
	85.0	SS17	50/4				20.2%	4		Gray (SILTY-SAND) with mostly very fine to fine size sand, trace to little silt, very dense, weakly thinly bedded, (SM) tending toward (SP). S - NPL	

BOTTOM OF HOLE AT 86.00 ft

Note:
 Advanced bore hole with 4 1/4" ID x 8" OD hollow stem auger casing with 5.0-foot of interval to end of boring at 86.0 feet. Bore hole was backfilled with cuttings and ground surface repaired with a cold patch.

DATE	TIME	DEPTH (ft.)			ARTESIAN HEAD HEIGHT ABOVE GROUND	FILLED WITH WATER AT END OF DAY
		HOLE	CASING	WATER		
09-Jan-17	11:30	36.00	34.00	32.00	NO	No
10-Jan-17	08:15	84.30	84.00	43.00	NO	No

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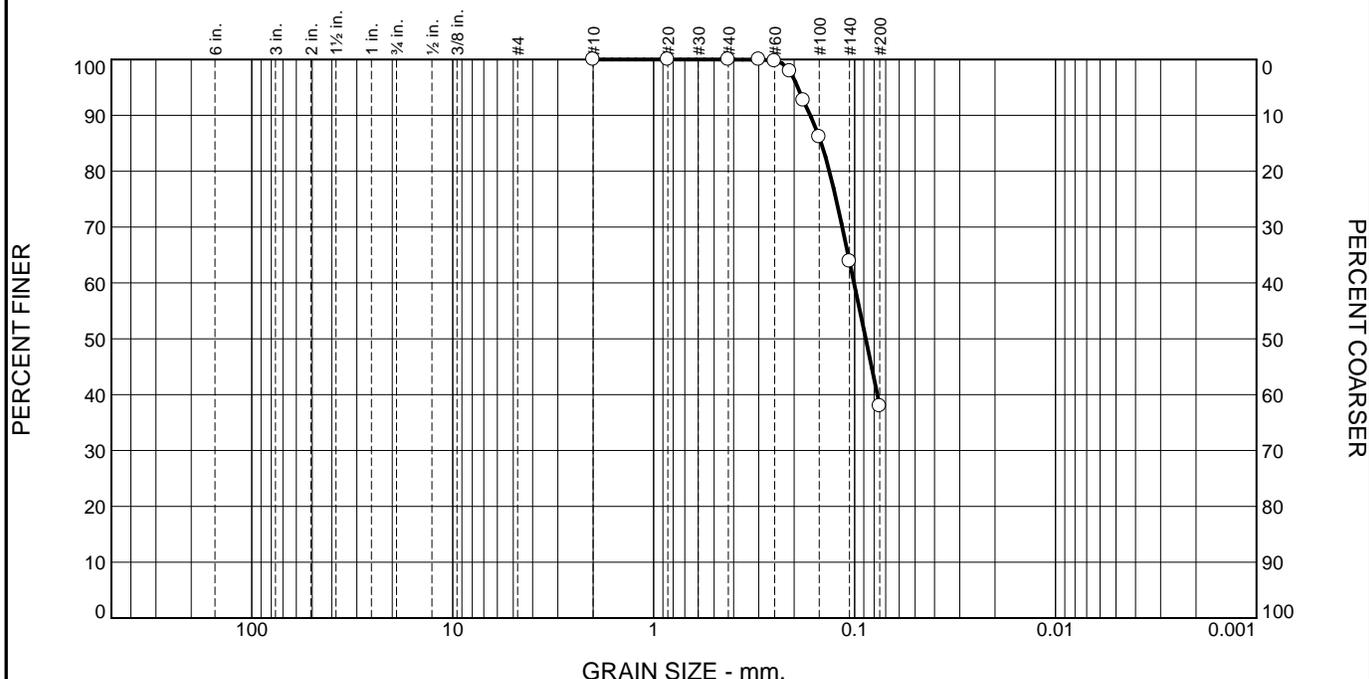
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SHEET 4 OF 4

HOLE FH-B

TWY-CAN SUBSURF EXPLORATION 6K16_BIN-5516071&5516072-DRAFTS.GPJ TWYSETT.MPL_V05.GDT 3/31/17

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	0.0	0.0	0.0	0.0	62.0	38.0	

TEST RESULTS (D6913)			
Opening Size	Percent Finer	Spec.* (Percent)	Pass? (X=Fail)
#10	100.0		
#20	100.0		
#40	100.0		
#50	100.0		
#60	99.7		
#70	97.9		
#80	92.7		
#100	86.1		
#140	63.9		
#200	38.0		

Material Description

ID#17-035

Atterberg Limits (ASTM D 4318)

PL= _____ LL= _____ PI= _____

Classification

USCS (D 2487)= _____ AASHTO (M 145)= _____

Coefficients

D₉₀= 0.1663 D₈₅= 0.1463 D₆₀= 0.1006
D₅₀= 0.0881 D₃₀= _____ D₁₅= _____
D₁₀= _____ C_u= _____ C_c= _____

Remarks

Date Received: 2/9/17 Date Tested: 2/23/17
Tested By: ETC
Checked By: JMA
Title: LM

* (no specification provided)

Source of Sample: 6K16 & 7K16
Sample Number: FHB-3, SS13

Date Sampled:

<p>3rd Rock, LLC</p> <p>East Aurora, NY</p>	<p>Client: Earth Dimensions, Inc. Project: 6K16; 7K16 Project No: 17-002</p>
<p>Figure</p>	



Water Content Test Results by ASTM D2216

Project: New York State Thruway
EDI Project No.: 6K16
Client: Earth Dimensions, Inc.

Project No: 16-008
Date: 1/17/17

Borehole No.	Sample Nos.	Depth, fbg	Lab ID No.	Natural Water Content, %
FH-B-1	S-1	4-6	17-004	3.9
	S-2	9-11	17-004	4.7
	S-3	14-16	17-004	6.9
	S-4	19-21	17-004	8.1
	S-5	24-26	17-004	6.4
	S-6	29-31	17-004	6.3
	S-7	34-36	17-004	10.2
	S-8	39-41	17-004	12.2
	S-9	44-46	17-004	13.3
	S-10	49-51	17-004	12.3
	S-11	54-56	17-004	16.2
	S-12	59-61	17-004	9.6
	S-13	64-66	17-004	13.9
	S-14	69-71	17-004	7.0
	S-15	74-76	17-004	8.0
FH-B-4	S-1	4-6	17-005	6.2
	S-2	9-11	17-005	7.5
	S-3	14-16	17-005	8.0
	S-4	19-21	17-005	12.0
	S-5	24-26	17-005	21.1
	S-6	29-31	17-005	28.8
	S-7	34-36	17-005	29.4
	S-8	39-41	17-005	31.0
	S-9	44-46	17-005	24.5
	S-10	49-51	17-005	22.8
	S-11	54-56	17-005	13.6
	S-12	59-61	17-005	18.6
	S-13	64-66	17-005	22.7
	S-14	69-71	17-005	20.0
	S-15	74-76	17-005	21.9
	S-16	79-81	17-005	17.7
	S-17	84-86	17-005	20.2

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Water Content Test Results by ASTM D2216

Project: New York State Thruway
EDI Project No.: 6K16
Client: Earth Dimensions, Inc.

Project No: 16-008
Date: 1/11/17

Borehole No.	Sample Nos.	Depth, fbg	Lab ID No.	Natural Water Content, %
FH-B-3	S-1	4-6	17-002	20.2
	S-2	9-11	17-002	19.4
	S-3	14-16	17-002	13.2
	S-4	19-21	17-002	3.7
	S-5	24-26	17-002	4.9
	S-6	29-31	17-002	10.0
	S-7	34-36	17-002	33.7
	S-8	39-41	17-002	20.8
	S-9	44-46	17-002	10.9
	S-10	49-51	17-002	No Sample
	S-11	54-56	17-002	18.1
	S-12	59-91	17-002	19.8
	S-13	64-66	17-002	22.5
	S-14	69-70.4	17-002	19.7
FH-B-5	S-1	4-6	17-003	8.9
	S-2	9-11	17-003	7.8
	S-3	14-16	17-003	5.8
	S-4	19-21	17-003	16.0
	S-5	24-26	17-003	24.0
	S-6	29-31	17-003	27.5
	S-7	34-36	17-003	26.3
	S-8	39-41	17-003	14.1
	S-9	44-46	17-003	8.8
	S-10	49-51	17-003	6.3
	S-11	54-56	17-003	4.9
	S-12	59-61	17-003	8.0
	S-13	64-66	17-003	7.7
	S-14	69-69.4	17-003	11.6

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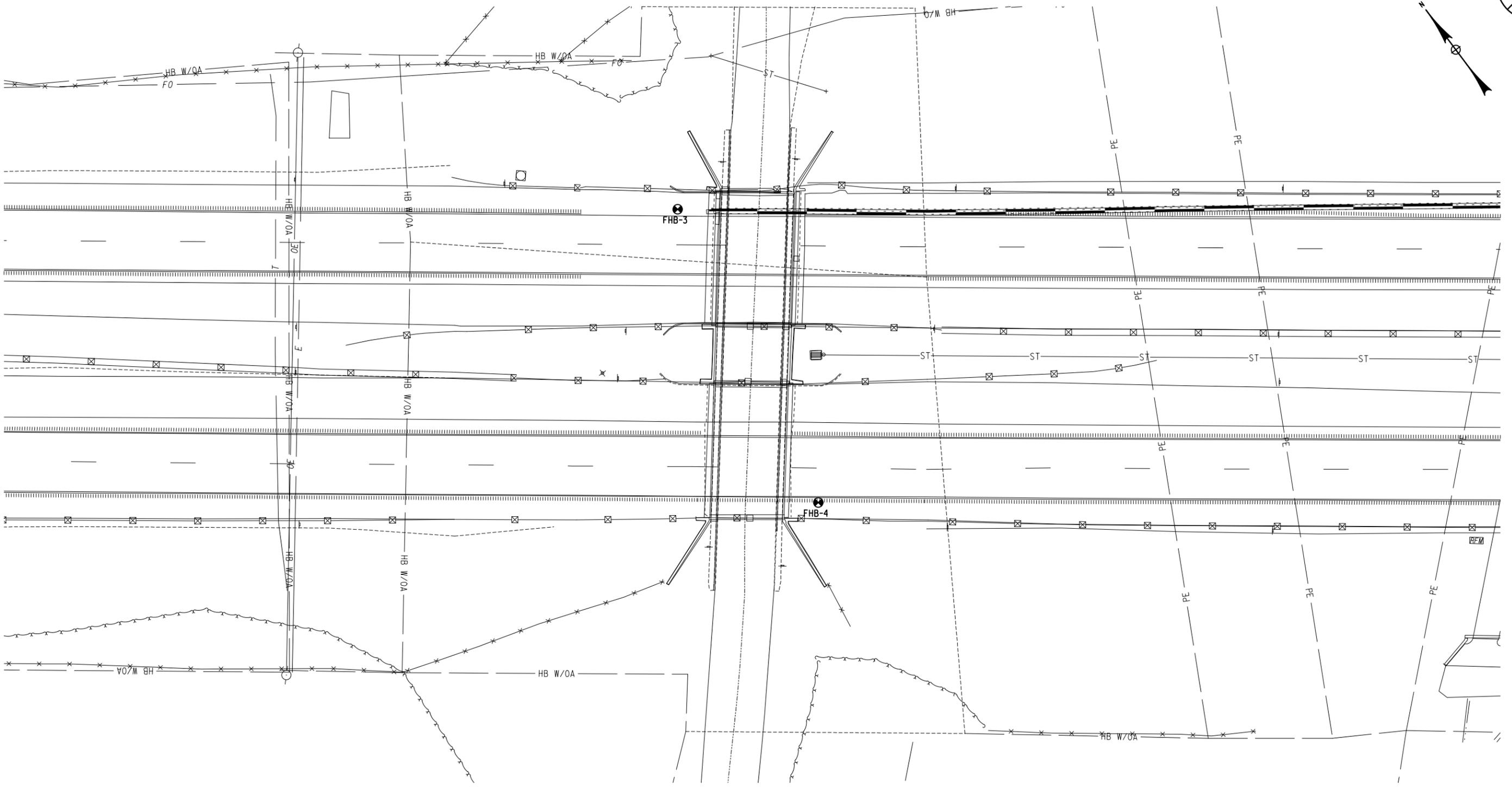
CHECKED BY: D. JENKINSON

DRAFTED BY: M. SAVINO

CHECKED BY: D. JENKINSON

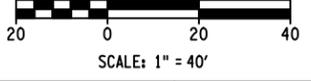
DESIGNED BY: M. SAVINO

DESIGN SUPERVISOR: M. LAISTNER



SOIL BORING LOCATION PLAN
SCALE: 1" = 40'

SOIL BORING LOCATION		
BORING	LATITUDE	LONGITUDE
FHB-3	43.062477 N	-75.078747 E
FHB-4	43.062125 N	-75.078837 E



ALTERED ON:

AFFIXED ON:

SIGNATURE:
STAMP:

SIGNATURE:
STAMP:

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

REVISIONS			
DATE	DESCRIPTION	BY	SYM.



TITLE OF PROJECT
INTERSTATE 90 OVER MILLERS GROVE ROAD
MP 225.48 & 225.49 / BINS 5516072 & 5516071
LOCATION OF PROJECT
TOWN OF SCHUYLER
HERKIMER COUNTY, NY

CONTRACT NUMBER:
TAB 17-X

DATE:
APRIL 2017

TITLE OF DRAWING
BORING LOCATION PLAN

DRAWING NUMBER:
BP-02