

CUY-90-14.90

PID 77332/85531

APPENDIX GE-03

Soil Profile (Reference Document)

State of Ohio
Department of Transportation
Jolene M. Molitoris, Director

Innerbelt Bridge
Construction Contract Group 1 (CCG1)

General Changes: Each sheet had the total sheet number changed and the CRS changed from CUY-90-14.52 to CUY-90-14.90.

Sheet 116/116:

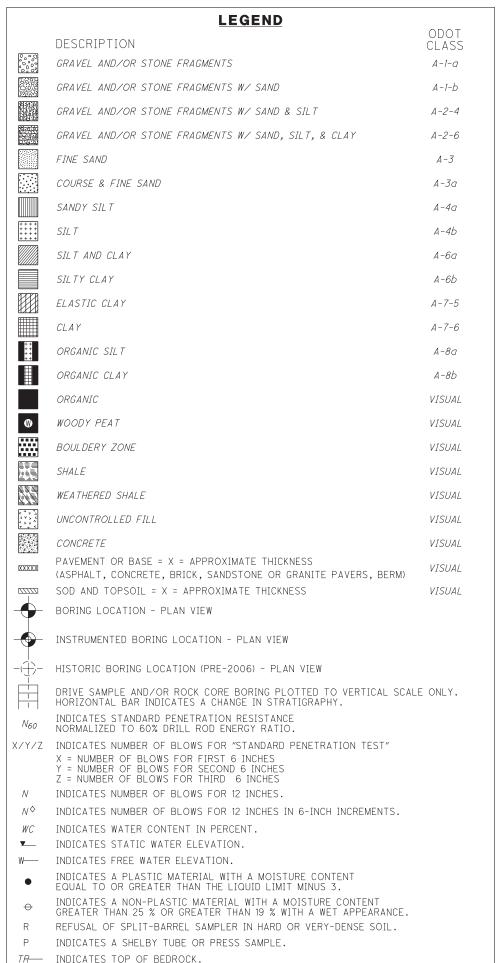
Sheet 1/116: Some minor changes to the text, update index of sheets, update to the recon and drilling lines and the completion date on signature stamp area. Sheet 2/116: Some minor changes to the text, addition of information for 5 UC tests on soil into table in middle column. Sheet 4/116: Add in 6 supplemental borings and readjust sheet number references as necessary for other borings. Sheet 5/116: Readjust sheet number references as necessary for other borings. Sheet 49/116: Correct spelling of the word "separate". Sheet 51/116: Correct spelling of the word "separate", update sheet number references in table as necessary. Sheet 56/116: Add in Boring B-039-1-10, correct spelling of the words "separate" and "Cuyahoga", update sheet number references in table as necessary. Sheet 57/116: Add in profile for Boring B-039-1-10, delete profile for B-039-0-09 (it was too close to the location of B-039-1-10). Sheet 58/116: Add in profile for Boring B-039-1-10, delete profile for B-039-0-09 (it was too close to the location of B-039-1-10). Sheet 59/116: Add in Boring B-044-1-10, correct spelling of the word "separate", update sheet number references in table as necessary. Sheet 60/116: Add in profile for Boring B-044-1-10. Sheet 61/116: Add in profile for Boring B-044-1-10. Sheet 64/116: Add in Boring B-047-2-10, correct spelling of the word "separate", update sheet number references in table as necessary. Sheet 65/116: Add in profile for Boring B-047-2-10, delete profile for V-013-0-06 (it was too close to the location of B-047-2-10). Sheet 66/116: Add in profile for Boring B-047-2-10, delete profile for V-013-0-06 (it was too close to the location of B-047-2-10). Sheet 69/116: Correct spelling of the word "separate", update sheet number references in table as necessary. Sheet 70/116: Delete grade line for future WB I-90 centerline to be consistent with new sheet 73A. Sheet 73/116: Add in Borings B-069-1-10 and B-069-2-10, correct spelling of the word "separate", update sheet number references in table as necessary. Sheet 73A/116: New profile sheet to show Borings B-069-1-10 and B-069-2-10, grade line for future WB I-90 centerline not shown. Sheet 75/116: Add in Boring B-074-1-10, correct spelling of the word "separate", update sheet number references in table as necessary. Sheet 76/116: Add in profile for Boring B-074-1-10. Sheet 78/116: Correct spelling of the word "separate", update sheet number references in table as necessary. Sheet 81/116: Add in note for location of boring markers in plan view. Sheet 82/116: Add in note for location of boring markers in plan view. Sheet 83/116: Add in note for location of boring markers in plan view. Sheet 84/116: Add in note for location of boring markers in plan view. Sheet 86/116: Add in note for location of boring markers in plan view. Sheet 88/116: Add in note for location of boring markers in plan view. Sheet 90/116: Add in note for location of boring markers in plan view. Sheet 92/116: Add in note for location of boring markers in plan view. Sheet 94/116: Add in note for location of boring markers in plan view. Sheet 96/116: Add in note for location of boring markers in plan view. Sheet 98/116: Add in note for location of boring markers in plan view, replace the word "inches" with " in heading of Boring B-047-0-09. Sheet 100/116: New sheet for new cross section at Sta. 161+00 showing Borings B-047-2-10 and V-013-0-06. Sheet 101/116: New sheet for new cross section at Sta. 161+00 showing Borings B-047-2-10 and V-013-0-06. Sheet 102/116: Renumber sheet (from 100 to 102) after adding new cross section at 161+00, add in note for location of boring markers in plan view. Sheet 103/116: Renumber sheet (from 101 to 103) after adding new cross section at 161+00, add in note for location of boring markers in plan view. Sheet 104/116: Renumber sheet (from 102 to 104) after adding new cross section at 161+00. Sheet 105/116: Renumber sheet (from 103 to 105) after adding new cross section at 161+00. Sheet 106/116: Renumber sheet (from 104 to 106) after adding new cross section at 161+00. Sheet 107/116: Renumber sheet (from 105 to 107) after adding new cross section at 161+00. Sheet 108/116: Renumber sheet (from 106 to 108) after adding new cross section at 161+00. Sheet 109/116: Renumber sheet (from 107 to 109) after adding new cross section at 161+00. Sheet 110/116: Renumber sheet (from 108 to 110) after adding new cross section at 161+00. Sheet 111/116: Renumber sheet (from 109 to 111) after adding new cross section at 161+00. Sheet 112/116: Renumber sheet (from 110 to 112) after adding new cross section at 161+00. Sheet 113/116: Renumber sheet (from 111 to 113) after adding new cross section at 161+00. Sheet 114/116: Renumber sheet (from 112 to 114) after adding new cross section at 161+00, add in note for location of boring markers in plan view. Sheet 115/116: Renumber sheet (from 113 to 115) after adding new cross section at 161+00, add in note for location of boring markers in plan view.

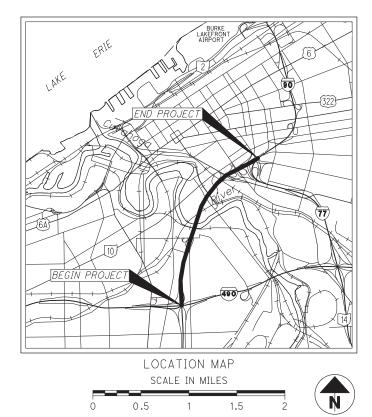
Renumber sheet (from 114 to 116) after adding new cross section at 161+00, add in note for location of boring markers in plan view.

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IND	DEX OF	SHEETS
LOCAT		PLAN VIEW & PROFILE SHEET NUMBERS
W.B. I-90 MAINLIN	<u>'E</u>	47 40 E1 E7 EC 61
97+02.06	198+50	47, 49, 51-53, 56-61, 64-66, 69-70, 73, 73A
TEMPORARY W.B. I		C4 C0 71
501+50.00 <u>TEMPORARY RAMP</u>	515+50.00 4.3	64, 69, 71
2999+00	3009+20.95	69, 73, 74
RAMP A4		
600+26.44 <i>RAMP A5</i>	609+41.34	64, 69, 72
	720+42.80	59, 62-64, 67
RAMP A6		
800+00	814+00	51, 54, 56
<u>RAMP A7</u> 1000+00	1013+96	47-50
<u>W. 14TH ST. EXT.</u>		
100+00	108+80.78	51, 55
<u>ONTARIO ST.</u> 690+69.56	697+89.30	64,68
COMMERCIAL RD.	001.00.00	01, 00
10+00	20+07.23	64,75,77
<u>E. 9TH ST.</u> 11+54.79	26+00	EQ 75-76 70
BROADWAY AVE.	20+00	59, 75-76, 78
10+00	24+73.88	78-79
<u>E. 14TH ST.</u>	14.75 51	7000
10+01.13	14+75.51	78, 80
STATI	ON	CROSS SECTION
STATI	011	SHEET NUMBERS
W.B. I-90 MAINLIN	'E	
111+00)	81
114+0		82
115+0		83
118+50		84-85
126+5		86-87
128+0		88-89
131+0		90-91
134+0		92-93
137+0		94-95
139+5	-	96-97
158+5		98-99
161+0		100-101
167+0		102
171+50	0	103
<u>WEST ABUTMENT</u>		
A-A'		104-105
B-B'		106-107
C-C'		108-109
D-D'		110 – 111
E-E'		112-113
TEMPORARY RAMP	<u> 43</u>	
3000+	10	114
3003+	50	115
RAMP A6		

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NOTE: BORING LOGS AND/OR PROFILES (BASED ON INFORMATION AVAILABLE AT THE TIME OF SUBMITTAL) ARE SUBMITTED IN A BINDER UNDER SEPARATE COVER.

PROJECT DESCRIPTION

AS PART OF THE CUY-90-14.90 (FORMERLY CUY-90-14.52) PROJECT, IT IS PLANNED TO RECONFIGURE APPROXIMATELY 1.6 MILES OF WESTBOUND I-90 (STA. 97+02.06 TO APPROXIMATE STA. 177+65) IN CLEVELAND, CUYAHOGA COUNTY, OHIO. ASSOCIATED WORK INVOLVED IN THIS PROJECT IS THE CONSTRUCTION OF A NEW FIVE-LANE BRIDGE STRUCTURE OVER THE CUYAHOGA RIVER VALLEY. ENTRANCE AND EXIT RAMPS AT EAST 14TH STREET, EAST 9TH STREET, ONTARIO STREET AND ABBEY AVENUE WILL BE RECONFIGURED AND CONSTRUCTED. RECONFIGURATION OF THE WEST 14TH STREET EXTENSION, COMMERCIAL BROAD PROADWAY AVENUE AND EAST OF THE STREET IS ALSO INCLUDED IN THIS PROJECT. ROAD, BROADWAY AVENUE, AND EAST 9TH STREET IS ALSO INCLUDED IN THIS PROJECT.

- CONTINUED ON SHEET 2 -

PARTICLE SIZE DEFINITIONS

12	″ 3	" 2.0	mm	0.42	mm .	0.07	4 mm 0.00	5 mm
BOULDERS	COBBLES	GRAVEL	COARSE	SAND	FINE	SAND	SILT	CLAY
'		No. 10	SIEVE	No. 40	SIEVE	No. 200	SIEVE	I

RECON. - VARIOUS (BBCM, B&P) 2006, 2009, 2010

DRILLING - BBCM 2006, 2009; B&P 2009, 2010

DRAWN - TJM/MRM REVIEWED - BKS/JLS





- SOIL PROFILES WERE AVAILABLE FOR THE 1923 INVESTIGATION PERFORMED BY THE CLEVELAND UNION TERMINAL COMPANY FOR THE CUYAHOGA VIADUCT BRIDGE, WHICH IS NOW OWNED AND OPERATED BY THE GREATER CLEVELAND REGIONAL TRANSIT AUTHORITY.
- MULTIPLE SUBSURFACE INVESTIGATIONS WERE CONDUCTED BY ODOT IN 1958, 1963, 1964, 1990 AND 1992. THE PRE-1990 ODOT INVESTIGATIONS WERE GENERALLY PERFORMED FOR THE PLANNED INNERBELT FREEWAY AND BRIDGE. THE 1990 AND 1992 ODOT BORINGS WERE PERFORMED TO INVESTIGATE THE OBSERVED SLOPE MOVEMENTS IN THE VICINITY OF THE WEST END PIER AND PIER 1 OF THE EXISTING INNERBELT BRIDGE.
- HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS (HNTB) PERFORMED INVESTIGATIONS BETWEEN 1954 AND 1956 PRIMARILY AT THE PROPOSED ABUTMENT AND PIER LOCATIONS FOR THE EXISTING INNERBELT BRIDGE.
- SOIL PROFILES WERE AVAILABLE FOR THE 1955 INVESTIGATION BY NEW YORK, CHICAGO AND ST. LOUIS RAILROAD COMPANY (NYC & ST. L.R.R.) FOR THE VERTICAL LIFT BRIDGE CARRYING A RAILROAD LINE (NOW OWNED BY NORFOLK SOUTHERN CORPORATION) OVER THE CUYAHOGA RIVER LOCATED IMMEDIATELY TO THE NORTH OF THE EXISTING INNERBELT BRIDGE.
- IN 1986, BORINGS WERE PERFORMED BY THE DAVID V. LEWIN CORPORATION (LEWIN) AT THE SITE OF A PROPOSED DOMED STADIUM. THE SITE IS NOW OCCUPIED BY PROGRESSIVE FIELD.
- IN 1986 AND 1987, R&R INTERNATIONAL, INC. (R&R) PERFORMED BORINGS FOR THE EXISTING ABBEY AVENUE VIADUCT OVER THE EXISTING NORFOLK SOUTHERN RAILROAD AND SCRANTON ROAD.
- IN 2000 AND 2001, DLZ CORPORATION (DLZ) PERFORMED THREE (3) BORINGS ADJACENT TO THE EXISTING INNERBELT BRIDGE AS A PART OF A STABILITY EVALUATION FOR THE CUY-90-15.24 PROJECT.
- BBC&M ENGINEERING, INC. (BBCM) PERFORMED SUBSURFACE INVESTIGATIONS BETWEEN 1994 AND 2006 GENERALLY TO INVESTIGATE VARIOUS ASPECTS OF THE CUY-90-15.24 AND CUY-90-14.52 PROJECTS. THE SUBSURFACE INVESTIGATIONS ALSO INCLUDED AND CUY-90-14.52 PROJECTS. THE SUBSURFACE INVESTIGATIONS ALSO INCLUDED INSTALLATION OF INSTRUMENTATION SUCH AS INCLINOMETERS AND PIEZOMETERS. THE PURPOSE OF THE BBCM INVESTIGATIONS IN THE 1990'S WAS TO MONITOR THE SLOPE MOVEMENTS AT THE WEST END PIER AND PIER 1 OF THE EXISTING INNERBELT BRIDGE AND AID THE DESIGN OF A STABILIZATION STRUCTURE ADJACENT TO PIER 1. THE CONSTRUCTION OF THIS STABILIZATION STRUCTURE WAS COMPLETED IN 1999. AN ADDITIONAL SUBSURFACE INVESTIGATION AT THE WEST BANK OF THE CUYAHOGA RIVER WAS PERFORMED BY BBCM IN 2006 TO EVALUATE THE LIMITS OF INSTABILITY. IN THE WEST BANK SLOPE AND EVALUATE VARIOUS ALTERNATIVES FOR STABILIZING THE SLOPE IN SUPPORT OF THE FOUNDATIONS IN THIS AREA FOR THE PROPOSED NEW BRIDGE (WESTBOUND I-90 BRIDGE) TO BE LOCATED JUST NORTH OF THE EXISTING INNERBELT BRIDGE. OHIO UNIVERSITY PERFORMED SEVERAL CPT TESTS IN CONJUCTION WITH BBCM'S 2006 INVESTIGATION.
- BBCM PERFORMED A PRELIMINARY SUBSURFACE INVESTIGATION IN 2006 FOR THE PROPOSED WESTBOUND I-90 BRIDGE ALIGNMENT. IN ADDITION TO THE BORINGS PERFORMED FOR THE PROPOSED WESTBOUND I-90 BRIDGE, BORINGS WERE PERFORMED FOR THE FOLLOWING: EXISTING ROADWAYS TO BE REHABILITATED OR RECONFIGURED; NEW ROADWAYS; NEW, REHABILITATED AND/OR RECONFIGURED INTERCHANGE RAMPS; THE I-90 MAINLINE; AND, ASSOCIATED NEW AND REHABILITATED STRUCTURES (I.E. BRIDGES AND RETAINING WALLS).

ALL AVAILABLE SOIL INFORMATION THAT CAN BE CONVENIENTLY SHOWN ON THE SOIL PROFILE SHEETS HAS BEEN SO REPORTED. THE LOGS OF BORINGS, SOIL PROFILES (WHERE BORINGS WERE NOT AVAILABLE), AND CPT LOGS HAVE BEEN SUBMITTED SEPERATELY FROM THESE SOIL PROFILE SHEETS IN A BINDER PER ODOT'S REQUEST. THIS BINDER ALSO CONTAINS MANY BORINGS THAT ARE SHOWN ON THE PLAN SHEETS BUT HAVE BEEN EXCLUDED FROM THE PROFILES AND CROSS-SECTIONS EITHER FOR CLARITY OF PRESENTATION OR DUE TO THEIR RELATIVELY LARGE DISTANCE FROM PROJECT CENTERLINES AND BASELINES. ADDITIONAL NOTES REGARDING THE LOCATION OF SUBSURFACE DATA ARE PROVIDED ON THE INDIVIDUAL PLAN AND PROFILE SHEETS.

ADDITIONAL SUBSURFACE EXPLORATIONS MAY HAVE BEEN MADE TO STUDY SOME SPECIAL ASPECT OF THE PROJECT. COPIES OF THIS DATA, IF ANY, MAY BE INSPECTED IN THE DISTRICT DEPUTY DIRECTOR'S OFFICE, THE OFFICE OF GEOTECHNICAL ENGINEERING AT 1600 WEST BROAD STREET OR THE OFFICE OF STRUCTURAL ENGINEERING AT 1980 WEST BROAD STREET

SUBSURFACE EXPLORATION

TO SUPPLEMENT THE SUBSURFACE INVESTIGATIONS PERFORMED BY BBCM BETWEEN 1994 AND 2006 BASED ON THE MOST RECENT PLANS FOR THE CUY-90-14.90 PROJECT, BARR & PREVOST (B&P) PERFORMED 80 BORINGS BETWEEN MAY AND OCTOBER OF 2009 AND BBCM PERFORMED SEVEN (7) BORINGS BETWEEN JUNE AND SEPTEMBER OF 2009. ADDITIONALLY, ODOT PERFORMED TWO (2) CPT TESTS ON AUGUST 18, 2009. AN ADDITIONAL SIX (6) BORINGS WERE PERFORMED BY B&P BETWEEN APRIL AND MAY OF 2010, AT LOCATIONS REQUESTED BY THE DESIGN BUILD TEAM FINALISTS.

THE BORINGS WERE DRILLED WITH EITHER AN ATV-MOUNTED (ALL-TERRAIN VEHICLE) OR A TRUCK-MOUNTED DRILLING RIG. DISTURBED, BUT REPRESENTATIVE, SOIL SAMPLES WERE OBTAINED BY LOWERING A 2-INCH O.D. SPLIT-BARREL SAMPLER TO THE BOTTOM OF THE BORING AND DRIVING IT INTO THE SOIL BY BLOWS FROM A 140-POUND HAMMER FREELY FALLING 30 INCHES (ASTM D1586 - STANDARD PENETRATION TEST). SPLIT BARREL FALLING 30 INCHES (ASIM D1586 - STANDARD PENETRATION TEST). SPLIT BARKEL SAMPLES WERE EXAMINED IMMEDIATELY AFTER RECOVERY AND REPRESENTATIVE PORTIONS WERE PRESERVED IN AIRTIGHT GLASS JARS. WHERE POSSIBLE, 3-INCH O.D. SHELBY TUBE SAMPLERS WERE HYDRAULICALLY PUSHED IN SOIL EXHIBITING COHESION TO OBTAIN "UNDISTURBED" SAMPLES. WHERE ENCOUNTERED, BEDROCK WAS CORED USING AN NX OR SIMILAR SIZED DIAMOND BIT ROCK CORE BARREL WITH WATER AS A CIRCULATING/COOLING FLUID. RETRIEVED ROCK CORE SAMPLES WERE STORED IN COMPARTMENTAL CORE BOXES. UPON COMPLETION, THE DEPTH TO ANY ACCUMULATED GROUNDWATER WAS MEASURED, THE BORINGS WERE BACKFILLED OR SEALED IN ACCORDANCE WITH ODOT REQUIREMENTS, AND THE SURFACE OF THE EXISTING PAVEMENT AT THE BORING LOCATIONS WAS REPAIRED USING COLD-PATCH ASPHALT OR CONCRETE, WHERE APPROPRIATE.

THE LOGS OF BORINGS FOR THESE 2009 SUBSURFACE INVESTIGATIONS HAVE ALSO BEEN INCLUDED SEPARATELY IN THE AFOREMENTIONED BINDER OF LOGS AND SOIL PROFILES.

GEOLOGY AND EXPLORATION FINDINGS

THE MAJORITY OF THE PROJECT LIMITS LIE WITHIN THE PRESENT CUYAHOGA RIVER VALLEY. A LARGE PORTION OF THE CUYAHOGA RIVER VALLEY IS CLASSIFIED AS "MADE LAND" WITH URBAN COVER COMPOSED OF FILL MATERIALS OF VARIABLE COMPOSITION AND DEPTH. BENEATH THE FILL MATERIALS, SUBSURFACE INVESTIGATIONS PERFORMED BY BBCM, B&P, BENEATH THE FILL MATERIALS, SUBSURFACE INVESTIGATIONS PERFORMED BY BBCM, B&P, AND OTHERS HAVE ENCOUNTERED APPROXIMATELY 20 TO 50 FEET OF ALLUVIUM DEPOSITS OF HOLOCENE AGE CONSISTING PREDOMINANTLY OF VERY-LOOSE TO MEDIUM-DENSE SANDS AND SILTS AND VERY-SOFT TO MEDIUM STIFF SILTY CLAY AND CLAY OF VARIABLE ORGANIC CONTENT. THE ALLUVIUM MATERIALS WERE DEPOSITED BY THE PRECURSOR TO THE CUYAHOGA RIVER. BENEATH THE ALLUVIUM DEPOSITS, APPROXIMATELY 55 TO 100 FEET OF LACUSTRINE DEPOSITS CONSISTING PRIMARILY OF MEDIUM-STIFF TO VERY STIFF SILTY CLAYS WERE GENERALLY ENCOUNTERED. THESE LACUSTRINE SOILS WERE DEPOSITED BY A SERIES OF LARGE PROGLACIAL LAKES WHICH COVERED THE GREATER CLEVELAND AREA NEAR THE END OF THE WISCONSINAN CLAUTIVE PRIDON. LARGE PROGLACIAL LAKES WHICH COVERED THE GREATER CLEVELAND AREA NEAR THE END OF THE WISCONSINAN GLACIAL PERIOD. SLOPE FAILURES OBSERVED IN THE RIVER VALLEY SIDE SLOPES HAVE OCCURRED PRIMARILY WITHIN THESE LACUSTRINE DEPOSITS. MANY SLOPE FAILURES HAVE BEEN OBSERVED OVER THE YEARS ON THE SIDE SLOPES ADJACENT TO THE CUYAHOGA RIVER. THE LACUSTRINE DEPOSITS OVERLIE APPROXIMATELY 25 TO 65 FEET OF TILL FROM THE WISCONSINAN OR ILLINOIAN GLACIAL PERIODS. THE TILL PRIMARILY CONSISTS OF DENSE TO VERY-DENSE SANDY SILT OR VERY-STIFF TO HARD CLAYEY SILT. BENEATH THE TILL, OHIO DEVONIAN SHALE WAS ENCOUNTERED, WHICH CONTAINS ORGANIC MATTER AND NATURAL GAS. THIS GAS IS KNOWN TO PERCOLATE UPWARDS THROUGH THE SHALE BECOMING TRAPPED IN POCKETS THROUGHOUT THE LOWER PORTION OF THE SHALE BECOMING TRAPPED IN POCKETS THROUGHOUT THE LOWER PORTION OF THE OVERLYING SEDIMENTS.

SPECIFICATIONS

ALL BORINGS PERFORMED BY BBCM IN 2006 WERE GENERALLY PERFORMED IN ACCORDANCE WITH THE 1995 ODOT "SPECIFICATIONS FOR SUBSURFACE INVESTIGATIONS." BORINGS PERFORMED IN 2006 TO INVESTIGATE THE PAVEMENT SUBGRADES WERE ALSO PERFORMED IN GENERAL ACCORDANCE WITH ODOT OFFICES OF CONSTRUCTION ADMINISTRATION AND GEOTECHNICAL ENGINEERING GEOTECHNICAL BULLETIN GB1, "PLAN SUBGRADES", REVISED GEOTECHNICAL ENGINEERING GEOTECHNICAL BULLETIN GBI, "PLAN SUBGRADES", REVISED JUNE 29, 2005. ALL BORINGS PERFORMED BY BBCM AND B&P IN 2009 AND 2010 WERE GENERALLY PERFORMED IN ACCORDANCE WITH THE ODOT "SPECIFICATIONS FOR GEOTECHNICAL EXPLORATIONS", REVISED JANUARY 16, 2009. THE BORINGS PERFORMED BY B&P IN 2009 TO INVESTIGATE THE PAVEMENT SUBGRADES WERE ALSO PERFORMED IN GENERAL ACCORDANCE WITH THE GBI DOCUMENT, REVISED JANUARY 18, 2007. THE BORINGS PERFORMED BY ODOT AND BBCM IN THE 1990'S WERE PRESUMABLY PERFORMED IN GENERAL ACCORDANCE WITH THE 1984 ODOT "SPECIFICATIONS FOR SUBSURFACE INVESTIGATIONS" ALTHOUGH THIS COULD NOT BE VERIFIED. IT IS UNKNOWN IF THE OTHER INVESTIGATIONS LOCATED WITHIN THE PROJECT LIMITS WERE PERFORMED IN ACCORDANCE WITH ANY SPECIFICATIONS.

SUMM	ARY O	F UNC	ONF	INED	COMP	RESSION
STRE	NGTH	(UCS)	TES	TING	DATA	A - SOIL
RIGINAL	SGE	CVV	ADI E	SAM	PLE	UNCONFINED

ORIGINAL	SGE	SAMPLE	SAMPLE	UNCONFINED
BORING	BORING		ELEVATION	COMREPESSIVE
NO.	NO.	NO.	(MSL)	STRENGTH (PSF)
B-044-1-10	B-044-1-10	ST-5	572.9' - 570.9'	1077
B-044-1-10	B-044-1-10	ST-8	558.4' - 556.4'	6620
B-069-1-10	B-069-1-10	ST-14	614.0' - 612.0'	2044
B-069-1-10	B-069-1-10	ST-18	593.5' - 591.5'	4258
B-069-1-10	B-069-1-10	ST-23	568.5′ - 566.5′	2876
B-022-1-09*	B-022-1-09*	ST-1	609.4' - 608.4'	3060
B-022-1-09*	B-022-1-09*	ST-3	605.4' - 604.4'	7128
B-023-0-09	B-023-0-09	ST-20	592.5′ - 590.5′	2970
B-023-0-09	B-023-0-09	ST-23A	577.5′ - 575.5′	1933
B-023-0-09	B-023-0-09	ST-28A	552.5′ - 550.5′	3251
B-025-0-09	B-025-0-09	ST-19	613.0′ - 612.0′	1370
B-025-0-09	B-025-0-09	ST-29A	563.0′ - 561.0′	3617
B-028-0-09	B-028-0-09	ST-18A	618.9' - 617.4'	4233
B-028-0-09	B-028-0-09	ST-26A	578.9′ - 576.9′	2301
B-032-0-09	B-032-0-09	ST-20	609.6' - 607.6'	2837
B-032-0-09	B-032-0-09	ST-25	584.6′ - 583.6′	2136
B-032-0-09	B-032-0-09	ST-27	574.1′ - 573.1′	2183
B-2	B-002-0-00	P-1	539.0′ - 537.0′	1640
B-3	B-003-0-00	P-2	517.0′ - 515.0′	2100
B-4	B-004-0-00	P-1	562.0′ - 560.0′	340
B-4	B-004-0-00	P-2	552.0′ - 550.0′	1680
B-4	B-004-0-00	P-5	487.0′ - 485.0′	7120
B-4	B-004-0-86	S-12	624.8′ - 622.8′	3175
B-4	B-004-0-86	S-13	619.8' - 617.8'	1280
B-4	B-004-0-86	S-15	609.8 - 607.8	1890
B-106A**	B-106-A-58**	93268	628.7′ - 627.7′	2960
B-106A**	B-106-A-58**	93269	624.7′ - 623.7′	1180
B-106A**	B-106-A-58**	93271	603.7′ - 602.7′	3780
B-106A**	B-106-A-58**	93272	584.7′ - 583.7′	3740

*BORING B-022-1-09 WAS PERFORMED TO RECOVER SHELBY TUBE SAMPLES AND NO LOG WAS CREATED. RESULTS FOR TESTS FROM BORING B-022-1-09 ARE SHOWN ON LOG FOR BORING B-022-0-09. **SAMPLE ELEVATIONS ARE APPROXIMATE

SUMMARY OF SLAKE DURABILITY (SD) TESTING DATA ON SHALE BEDROCK

SGE	SAMPLE	SAMPLE	TEST FLUID/	 SLAKE DURABILITY
BORING NO.	NO.	ELEVATION (MSL)	SLURRY TYPE	INDEX, Id ₂ (%)
	NO 1		WATED	00.0
B-022-0-09	NQ-1	479.4′ - 477.4′	WATER	86.9
B-022-0-09	NQ-1	479.4′ - 477.4′	MINERAL	89.7
B-022-0-09	NQ-1	479.4' - 477.4' 474.4' - 472.4'	POLYMER	93.1
B-022-0-09	NQ-2		WATER	80.6
B-022-0-09	NQ-2	474.4' - 472.4' 474.4' - 472.4'	MINERAL	91.5
B-022-0-09 B-022-0-09	NQ-2	462.4' - 460.4'	POLYMER	92.3
B-022-0-09 B-031-0-09	NQ-3 NQ-1	466.5' - 464.5'	WATER WATER	96.8 79.4
B-031-0-09	NQ-1	461.5′ - 459.5′	WATER	73.1
B-031-0-09	NQ-3	449.5′ - 447.5′	WATER	82.7
B-031-0-09 B-035-0-09		447.6′ - 443.6′		
B-035-0-09	55 55	447.6' - 443.6'	WATER MINERAL	90.3
		447.6' - 443.6'		
B-035-0-09 B-035-0-09	55 56	440.0′ - 436.6′	POLYMER	93.1
			WATER	85.2
B-035-0-09	56	440.0′ - 436.6′	MINERAL	87.7
B-035-0-09	56	440.0′ - 436.6′ 429.0′ - 425.0′	POLYMER	92.0
B-035-0-09	57		WATER	85.3
B-035-0-09	57	429.0′ - 425.0′	MINERAL	80.9
B-035-0-09	57	429.0′ - 425.0′	POLYMER	86.4
B-037-1-09	50	452.6′ - 450.0′	WATER	81.0
B-037-1-09	50	452.6' - 450.0' 452.6' - 450.0'	MINERAL	86.1
B-037-1-09	50	452.6' - 450.0'	POLYMER	87.6
B-037-1-09	51		WATER	84.9
B-037-1-09	51	444.7' - 441.0' 444.7' - 441.0'	MINERAL	85.7
B-037-1-09	51		POLYMER	88.4
B-037-1-09	52	440.0′ - 435.0′	WATER	85.2
B-037-1-09 B-037-1-09	52	440.0′ - 435.0′ 440.0′ - 435.0′	MINERAL	85.5
	52		POLYMER	88.0
B-039-0-09	NQ-1	428.1′ - 426.1′	WATER	25.6
B-039-0-09	NQ-2	420.2′ - 418.8′	WATER	73.0
B-039-0-09 B-040-0-09	NQ-3 NQ-2	409.6' - 407.6' 397.7' - 396.7'	WATER WATER	79.8 95.2
B-040-0-09	NQ-2 NQ-3	385.8' - 384.8'		
B-040-0-09	NQ-1	394.9′ - 392.0′	WATER WATER	90.2
B-041-0-09	NQ-1	388.8' - 385.9'		88.5
B-041-0-09	NQ-2 NQ-3	377.9' - 375.9'	WATER WATER	94.6
B-041-0-09 B-042-0-09	NQ-1	399.5′ - 396.7′	WATER	96.7
B-042-0-09	NQ-2	393.0′ - 390.4′	WATER	98.5
B-042-0-09	NQ-3	382.9′ - 380.7′	WATER	97.3
B-042-0-09	NQ-3	407.3' - 405.3'	WATER	86.4
B-043-0-09	NQ-4	400.3′ - 398.3′	WATER	88.8
B-043-0-09	NQ-4 NQ-5	389.3′ - 386.3′	WATER	97.3
B-043-0-09 B-044-0-09	NQ-5 NQ-1	421.1′ - 418.6′		
B-044-0-09 B-044-0-09	NQ-1	421.1' - 418.6'	WATER WATER	93.9 97.1
B-044-0-09	NQ-2 NQ-2	409.9′ - 405.8′	WATER	96.6
B-044-0-09	NQ-3	404.6' - 402.6'	WATER	96.4
B-044-0-09 B-045-0-09	NQ-3 NQ-1	417.7' - 415.7'	WATER	95.8
B-045-0-09	NQ-3	402.9' - 399.7'	WATER	89.9
D 045-0-09	11/4-2	102.3 - 333.1	MAILN	03.3

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LOI (%)

2.0

	IES	IING L	DAIA	
ORIGINAL BORING NO.	SGE BORING NO.	SAMPLE NO.	SAMPLE ELEVATION (MSL)	
B-016-0-09	B-016-0-09	11	647.7' - 646.2'	
B-030-0-09	B-030-0-09	1	677.8' - 676.3'	
B-042-0-09	B-042-0-09	3	578.4' - 576.9'	
B-042-0-09	B-042-0-09	4	575.9' - 574.4'	
B-042-0-09	B-042-0-09	7	568.4′ - 566.9′	
B-042-0-09	B-042-0-09	9	563.4′ - 561.9′	
B-043-0-09	B-043-0-09	6	570.8' - 569.3'	
B-043-0-09	B-043-0-09	7	568.3′ - 566.8′	
B-044-0-09	B-044-0-09	7	564.6′ - 563.1′	
B-044-0-09	B-044-0-09	10	557.1′ - 555.6′	
SB-14	S-014-0-06	12 A	634.2′ - 633.7′	

VB-10

VB-10

VB-10

VB-10

V-010-0-06

V-010-0-06

V-010-0-06

V-010-0-06

V-010-0-06

V-015-0-06

B-042-0-09	B-042-0-09)	518.4 - 516.9	Z.I
B-042-0-09	B-042-0-09	4	575.9' - 574.4'	1.0
B-042-0-09	B-042-0-09	7	568.4' - 566.9'	4.6
B-042-0-09	B-042-0-09	9	563.4' - 561.9'	2.6
B-043-0-09	B-043-0-09	6	570.8′ - 569.3′	2.8
B-043-0-09	B-043-0-09	7	568.3′ - 566.8′	14
B-044-0-09	B-044-0-09	7	564.6' - 563.1'	18.9
B-044-0-09	B-044-0-09	10	557.1′ - 555.6′	8.9
SB-14	S-014-0-06	12A	634.2′ - 633.7′	2.19
SB-14	S-014-0-06	12B	633.7′ - 632.7′	4.35
SB-17	S-017-0-06	12	630.9′ - 629.4′	2.81
VB-2	V-002-0-06	2B	575.8′ - 574.8′	5.41
VB-2	V-002-0-06	6A	566.3' - 565.9'	3.35
VB-2	V-002-0-06	12	541.3′ - 539.8′	2.17
VB-5	V-005-0-06	6B	568.4′ - 567.9′	25.14
VB-5	V-005-0-06	7	566.9′ - 565.4′	11.33
VB-5	V-005-0-06	8	564.4′ - 562.9′	3.63
VB-5	V-005-0-06	9	559.4′ - 557.9′	2.58
VB-7	V-007-0-06	5A	574.0′ - 573.7′	17.49
VB-7	V-007-0-06	6	571.5′ - 570.0′	6.35
VB-7	V-007-0-06	7A	569.0′ - 568.2′	3.3
VB-7	V-007-0-06	7B	568.2′ - 567.5′	20.55
VB-7	V-007-0-06	8	566.5′ - 565.0′	14.63
VB-8	V-008-0-06	4	574.8′ - 573.3′	18.53
VB-8	V-008-0-06	5	572.3′ - 570.8′	5.64
VB-8	V-008-0-06	6	569.8′ - 568.3′	5.8
VB-8	V-008-0-06	7	567.3′ - 565.8′	14.4
VB-8	V-008-0-06	8	564.8′ - 563.3′	9.13
VB-8	V-008-0-06	9	559.8′ - 558.3′	4.79
VB-8	V-008-0-06	10	556.8' - 554.8'	3.5
VB-8	V-008-0-06	11	554.8′ - 553.3′	2.35
VB-8	V-008-0-06	12	549.8′ - 548.3′	2.23
VB-9	V-009-0-06	3	574.1′ - 572.6′	6.61
VB-9	V-009-0-06	4	571.6′ - 570.1′	7.26
VB-9	V-009-0-06	5	569.1′ - 567.6′	15
VB-9	V-009-0-06	6	566.6′ - 565.1′	14.6
VB-9	V-009-0-06	7	564.1′ - 562.6′	10.2
VB-9	V-009-0-06	8	561.6′ - 560.1′	3.72
VB-9	V-009-0-06	28	552.6′ - 550.6′	3.81
VB-10	V-010-0-06	5	573.3′ - 571.8′	6.81
VB-10	V-010-0-06	25	572.8' - 570.8'	7.56
VB-10	V-010-0-06	6	570.8′ - 569.3′	6.78

568.8' - 566.8'

568.3' - 566.8'

565.8' - 564.3'

561.3′ - 559.8′ 556.3' - 554.8'

557.8' - 555.8'

8.01

16.82

12.74

SUMMARY OF LOSS-ON-IGNITION (LOI)

SUMMARY OF CONFINED COMPRESSION
STRENGTH (CCS) TESTING DATA -
SHALE BEDROCK

SUMMARY OF UNCONFINED COMPRESSION STRENGTH (UCS) TESTING DATA - SHALE BEDROCK SAMPLE

ELEVATION

(MSL)

411,4' - 410,8'

406.3' - 405.9'

422.0' - 421.5

419.6' - 419.0

414.6' - 414.1'

420.8' - 420.4'

478.8' - 478.5

471.9' - 471.6'

456.2' - 455.9'

465.6' - 465.3 460 7' - 460 4'

448.8' - 448.5'

444.7' - 444.5

439.2' - 438.9

428.2' - 427.9'

453.0' - 452.6'

442.4' - 442.1

439.2' - 438.8'

428.6' - 428.3'

421.7' - 421.4'

409.2' - 409.0

397.6' - 397.4'

394.8′ - 394.5′

387.1' - 386.8'

374.3′ - 373.9′

393.0′ - 392.7

392.0' - 391.7'

384.3′ - 384.1

406.8' - 406.5

403.7' - 403.4'

388.3' - 388.0'

416.5' - 416.2'

409.8' - 409.5

401.7' - 401.4' 399.6' - 399.3

446.4

439.6

430.8

454.9 450.1

444.7 427.5

419.5

401.5

411.2

399.7

389.2°

372.6

367.6

435.0

430.7

435.9

434.0

429.8

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BORING

NO.

BORING

NO.

B-039-1-10 B-039-1-10

B-039-1-10 B-039-1-10

B-044-1-10 B-044-1-10

B-044-1-10 B-044-1-10

B-044-1-10 B-044-1-10

B-047-2-10 B-047-2-10

B-022-0-09 B-022-0-09

B-022-0-09 B-022-0-09

B-031-0-09 B-031-0-09 B-031-0-09 B-031-0-09

B-035-0-09 B-035-0-09

B-035-0-09 B-035-0-09

B-035-0-09 B-035-0-09

B-037-1-09 B-037-1-09

B-037-1-09 B-037-1-09

B-037-1-09 B-037-1-09

B-039-0-09 B-039-0-09 B-039-0-09 B-039-0-09

B-041-0-09 B-041-0-09

B-041-0-09 B-041-0-09

B-041-0-09 B-041-0-09

B-041-0-09 B-041-0-09

B-042-0-09 B-042-0-09 B-042-0-09 B-042-0-09

B-042-0-09 B-042-0-09 B-043-0-09 B-043-0-09

B-044-0-09 B-044-0-09 B-044-0-09 B-044-0-09 NQ-2

B-045-0-09 B-045-0-09 B-045-0-09 B-045-0-09

B-05-01 B-001-0-06

B-05-03 B-003-0-06 B-05-04 B-004-0-06

B-05-07 B-007-0-06

B-05-11 B-011-0-06

B-05-12 B-012-0-06 B-05-13 B-013-0-06

B-05-13 B-013-0-06

B-05-13 B-013-0-06

B-05-14 B-014-0-06

B-05-14 B-014-0-06

B-05-15 B-015-0-06

B-05-15 B-015-0-06

B-014-0-06

B-015-0-06

B-016-0-06

B-105-A-06

B-004-0-55

B-004-0-55

B-004-0-55

B-05-14

B-05-15

B-105A

B-4

B-4

B-039-0-09 B-039-0-09

B-022-0-09 B-022-0-09 NQ-3

B-031-0-09 B-031-0-09 NQ-3

B-040-0-09 B-040-0-09 NQ-2

B-042-0-09 B-042-0-09 NQ-2

B-043-0-09 B-043-0-09 NQ-4

B-043-0-09 B-043-0-09 NQ-5

B-044-0-09 B-044-0-09 NQ-2

NO.

NQ-1

NQ-2

NQ-1

NO-1

NQ-2

NX-1

NQ-1

NQ-2

NQ-1

NO-2

55

57

52

NQ-1

NQ-2

NO-3

NO-1

NQ-2

NQ-3

NQ-3

NQ-2

NO-3 NQ-3

NQ-3

NQ-3

55

47

48

49

34

N/A

N/A

N/A

UNCONFINED

OMREPESSIVE

STRENGTH (PSI)

6234

1830

4597

6278

7656

2460

1480

1040

1930

2120

1140

2260

1530

1730

1260

6440

2130

4020

1240

4100

2590

3950

6700

5830

2410

1477

1311

209

2955

1198

2916

828

430

676

POISSON'S

RATIO

0.39

0.13

0.4

ORIGINAL BORING NO.	SGE BORING NO.	SAMPLE NO.	SAMPLE ELEVATION (MSL)	UNCONFINED COMREPESSIVE STRENGTH (PSI)
B-1	B-001-0-55	N/A	446.1′	5550
B-1	B-001-0-55	N/A	445.7′	3530
B-1	B-001-0-55	N/A	435.9′	10930
B-1	B-001-0-55	N/A	435.7′	11500
B-1	B-001-0-55	N/A	425.9′	9460
B-1	B-001-0-55	N/A	425.7′	4500
B-1	B-001-0-55	N/A	422.8′	9610
B-1	B-001-0-55	N/A	422.5′	7550
B-1	B-001-0-55	N/A	420.9′	8230
B-1	B-001-0-55	N/A	420.7′	4800
B-1	B-001-0-55	N/A	418.1′	8920
B-1	B-001-0-55	N/A	417.8′	5060
B-1	B-001-0-55	N/A	416.0′	8180
B-1	B-001-0-55	N/A	415.7′	8450
B-1	B-001-0-55	N/A	413.6′	8280
B-1	B-001-0-55	N/A	413.5′	1600
B-1	B-001-0-55	N/A	412.0'	11220
B-1	B-001-0-55	N/A	410.7′	6200
B-2	B-002-0-55	N/A	441.8′	5300
B-2	B-002-0-55	N/A	436.8′	4800
B-2	B-002-0-55	N/A	432.8′	5100
B-2	B-002-0-55	N/A	426.8′	5900
B-2	B-002-0-55	N/A	424.4′	4800
B-2	B-002-0-55	N/A	423.0′	5100
B-2	B-002-0-55	N/A	417.8′	7200
B-3	B-003-0-55	N/A	436.2′	5680
B-3	B-003-0-55	N/A	426.5′	4840
B-3	B-003-0-55	N/A	422.5′	4440
B-3	B-003-0-55	N/A	421.0′	4760

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	REMOLDED SOIL SAMPLES								
ORIGINAL BORING NO.	SGE BORING NO.	SAMPLE NO.		COHESION (TSF)	SOIL FRICTION ANGLE (deg)	TEST TYPE*			
B-106A	B-106-A-58	92940	660.7′ - 659.7′	0.12	23.2	QUICK, UU			
B-106A	B-106-A-58	92943	657.7′ - 656.7′	0.0	48.1	QUICK, UU			
B-106A	B-106-A-58	92941	652.7′ - 651.7′	0.08	38.7	QUICK, UU			
B-106A	B-106-A-58	92942	646.7′ - 645.7′	0.08	31.4	QUICK, UU			
B-106A	B-106-A-58	93270	604.7′ - 603.7′	0.02	5.7	QUICK, UU			
B-106A	B-106-A-58	93274	554.7′ - 553.7′	0.02	11.3	QUICK, CU			
*UU = UNCC	DNSOLIDATED	UNDRAINED	. CU = CONSOLIDATED.	UNDRAINED					

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M	

PID NO.

DRIGINAL SCE COMPANY (ABREVIATED)	OIILL		OI OOIL L	Jonnia Lo	OATIONS
DRING Sort Company Boring Boring Boring Boring Company Marker Rother Company Compa				LOCATION	OF BORING
BORNIC NO. ADBREVIATED MARKER PROFILE	driginal I	l SGF I	COMPANY		01 20111110
NO. NO. LABBREVIALED PROFILE			COMPANY		BODING
NO. NO. (PLAN) FROFILE			(ABBREVIATED)	I MARKER I	
	NO.	NO.			PROFILE
	-067-0-09	B-067-0-09	B&P	69	74
-070-0-09 B-070-0-09 B8.P 59, 75 76 -070-2-09 B-070-09 B8.P 59, 75 76 -070-2-09 B-070-2-09 B8.P 75 N/A - SEE BINDER -070-2-09 B-070-2-09 B8.P 75 N/A - SEE BINDER -070-2-09 B-070-2-09 B8.P 75 N/A - SEE BINDER -071-0-09 B-071-0-09 B8.P 75 76 -071-0-09 B-072-0-09 B8.P 75 76 -073-09 B-072-0-09 B8.P 75 76 -073-09 B-073-09 B8.P 75 76 -073-09 B-073-09 B8.P 75 76 -073-09 B-073-0-09 B8.P 75 76 -073-0-09 B-073-0-09 B8.P 75 76 -074-0-09 B-073-0-09 B8.P 75 76 -074-0-09 B-075-0-09 B8.P 75 76 -074-0-09 B-075-0-09 B8.P 76 77 -074-0-09 B-075-0-09 B8.P 78 79 -076-0-09 B-076-0-09 B8.P 78 79 -076-2-09 B-076-0-09 B8.P 78 8 80 -076-10 B-006-06 B8.DM 56 110 -076-2-09 B-0776-0-06 B8.DM 56 110 -076-2-09 B-0776-0-06 B8.DM 56 104 -076-0-01 B-007-0-06 B8.					
	-069-0-09	B-069-0-09			74, 115
	-070-0-09	B-070-0-09	B&P	59.75	76
				· '	
1-071-0-09 B-071-0-09 B&P 75 76 -072-0-09 B-072-0-09 B&P 75 76 -073-0-09 B-073-0-09 B&P 75 76 -073-0-09 B-073-0-09 B&P 75 76 -074-0-09 B-073-0-09 B&P 75 76 -074-0-09 B-074-0-09 B&P 75 76 -074-0-09 B-076-0-09 B&P 75 76 -078-0-99 B-076-0-09 B&P 78 79 -076-0-99 B-076-0-09 B&P 78 79 -076-3-99 B-076-0-06 BBCM 56 57 -08-05-01 B-001-0-06 BBCM 56 100 -05-03 B-003-0-06 BBCM 56 100 -05-03 B-003-0-06 BBCM 56 108 -05-04 B-004-0-06 BBCM 51 88 -05-07 B-007-0-06 BBCM 51 88 -05-07 B-007-0-06 BBCM 51 88 -05-18 B-018-0-06 BBCM 56 89 -05-11 B-011-0-06 BBCM 56 90 -05-12 B-011-0-06 BBCM 56 90 -05-13 B-013-0-06 BBCM 56 90 -05-14 B-014-0-08 BBCM 56 90 -05-15 B-016-0-06 BBCM 56 94 -05-16 B-016-0-06 BBCM 56 97 96 -05-16 B-016-0-06 BBCM 56 97 97 -05-17 B-010-0-06 BBCM 56 97 97 -05-18 B-008-0-06 BBCM 56 97 97 -05-18 B-008-0-06 BBCM 56 97 97 -05-18 B-008-0-06 BBCM 56 97 97 -05-1	-070-2-09	B-070-2-09	B&P	75	N/A - SEE BINDER
1-071-0-09 B-071-0-09 B&P 75 76 -072-0-09 B-072-0-09 B&P 75 76 -073-0-09 B-073-0-09 B&P 75 76 -073-0-09 B-073-0-09 B&P 75 76 -074-0-09 B-073-0-09 B&P 75 76 -074-0-09 B-074-0-09 B&P 75 76 -074-0-09 B-076-0-09 B&P 75 76 -078-0-99 B-076-0-09 B&P 78 79 -076-0-99 B-076-0-09 B&P 78 79 -076-3-99 B-076-0-06 BBCM 56 57 -08-05-01 B-001-0-06 BBCM 56 100 -05-03 B-003-0-06 BBCM 56 100 -05-03 B-003-0-06 BBCM 56 108 -05-04 B-004-0-06 BBCM 51 88 -05-07 B-007-0-06 BBCM 51 88 -05-07 B-007-0-06 BBCM 51 88 -05-18 B-018-0-06 BBCM 56 89 -05-11 B-011-0-06 BBCM 56 90 -05-12 B-011-0-06 BBCM 56 90 -05-13 B-013-0-06 BBCM 56 90 -05-14 B-014-0-08 BBCM 56 90 -05-15 B-016-0-06 BBCM 56 94 -05-16 B-016-0-06 BBCM 56 97 96 -05-16 B-016-0-06 BBCM 56 97 97 -05-17 B-010-0-06 BBCM 56 97 97 -05-18 B-008-0-06 BBCM 56 97 97 -05-18 B-008-0-06 BBCM 56 97 97 -05-18 B-008-0-06 BBCM 56 97 97 -05-1	-070-3-09	B-070-3-09	R&P	75	N/A - SEE BINDER
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B-104 B-104-0-94 BBCM 56 N/A - SEE BINDER B-105 B-105-0-94 BBCM 56 N/A - SEE BINDER B-106 B-106-0-94 BBCM 56 N/A - SEE BINDER B-107 B-107-0-94 BBCM 56 N/A - SEE BINDER B-108 B-108-0-94 BBCM 56 N/A - SEE BINDER B-109 B-109-0-94 BBCM 56 92, 110 B-110 B-110-0-94 BBCM 56 92 B-10 B-010-0-92 ODOT 56 N/A - SEE BINDER B-1 B-010-0-90 ODOT 56 N/A - SEE BINDER B-2 B-002-0-90 ODOT 56 N/A - SEE BINDER B-3 B-003-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-90 ODOT 56 N/A - SEE BINDER B-5 B-005-0-90 ODOT 56 N/A - SEE BINDER B-8 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8	B-103	B-103-0-94	BBCM	56	
B-105 B-105-0-94 BBCM 56 N/A - SEE BINDER B-106 B-106-0-94 BBCM 56 N/A - SEE BINDER B-107 B-107-0-94 BBCM 56 I10 B-108 B-108-0-94 BBCM 56 N/A - SEE BINDER B-109 B-109-0-94 BBCM 56 92, 110 B-110 B-110-0-94 BBCM 56 92 B-10 B-010-0-92 ODOT 56 N/A - SEE BINDER B-1 B-010-0-90 ODOT 56 N/A - SEE BINDER B-2 B-002-0-90 ODOT 56 N/A - SEE BINDER B-3 B-003-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-90 ODOT 56 N/A - SEE BINDER B-5 B-005-0-90 ODOT 56 N/A - SEE BINDER B-7 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 N/A - SEE BINDER B-9 B-009-0-0		B-104-0-94			
B-106 B-106-0-94 BBCM 56 N/A - SEE BINDER B-107 B-107-0-94 BBCM 56 110 B-108 B-108-0-94 BBCM 56 N/A - SEE BINDER B-109 B-109-0-94 BBCM 56 92, 110 B-110 B-110-0-94 BBCM 56 92 B-10 B-010-0-92 ODOT 56 N/A - SEE BINDER B-1 B-010-0-90 ODOT 56 N/A - SEE BINDER B-2 B-002-0-90 ODOT 56 108 B-3 B-003-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-90 ODOT 56 N/A - SEE BINDER B-5 B-005-0-90 ODOT 56 N/A - SEE BINDER B-7 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 N/A - SEE BINDER B-9 B-004-0-86 LEWIN 69 N/A - SEE BINDER B-4 B-005-0-86					
B-107 B-107-0-94 BBCM 56 N/A - SEE BINDER B-108 B-108-0-94 BBCM 56 N/A - SEE BINDER B-109 B-109-0-94 BBCM 56 92, 110 B-110 B-110-0-94 BBCM 56 92 B-10 B-100-0-92 ODOT 56 N/A - SEE BINDER B-1 B-001-0-90 ODOT 56 N/A - SEE BINDER B-2 B-002-0-90 ODOT 56 108 B-3 B-003-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-90 ODOT 56 N/A - SEE BINDER B-5 B-005-0-90 ODOT 56 N/A - SEE BINDER B-7 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 N/A - SEE BINDER B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-4 B-008-0-86 LEWIN 69 N/A - SEE BINDER B-8 B-005-0-86 </td <td></td> <td></td> <td></td> <td></td> <td></td>					
B-107 B-107-0-94 BBCM 56 N/A - SEE BINDER B-108 B-108-0-94 BBCM 56 N/A - SEE BINDER B-109 B-109-0-94 BBCM 56 92, 110 B-110 B-110-0-94 BBCM 56 92 B-10 B-100-0-92 ODOT 56 N/A - SEE BINDER B-1 B-001-0-90 ODOT 56 N/A - SEE BINDER B-2 B-002-0-90 ODOT 56 108 B-3 B-003-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-90 ODOT 56 N/A - SEE BINDER B-5 B-005-0-90 ODOT 56 N/A - SEE BINDER B-7 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 N/A - SEE BINDER B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-4 B-008-0-86 LEWIN 69 N/A - SEE BINDER B-8 B-005-0-86 </td <td>B-106</td> <td> B-106-0-94 </td> <td>BBCM</td> <td> 56 </td> <td>N/A - SEE BINDER </td>	B-106	B-106-0-94	BBCM	56	N/A - SEE BINDER
B-108 B-108-0-94 BBCM 56 N/A - SEE BINDER B-109 B-109-0-94 BBCM 56 92, 110 B-110 B-110-0-94 BBCM 56 92 B-10 B-010-0-92 ODOT 56 N/A - SEE BINDER B-1 B-001-0-90 ODOT 56 N/A - SEE BINDER B-2 B-002-0-90 ODOT 56 108 B-3 B-003-0-90 ODOT 56 106 B-4 B-004-0-90 ODOT 56 N/A - SEE BINDER B-5 B-005-0-90 ODOT 56 N/A - SEE BINDER B-7 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 N/A - SEE BINDER B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-86 LEWIN 69 N/A - SEE BINDER B-5 B-005-0-86 LEWIN 69 N/A - SEE BINDER B-8 B-008-0-866 <	B-107	B-107-0-94		56	
B-109 B-109-0-94 BBCM 56 92, 110 B-110 B-110-0-94 BBCM 56 92 B-10 B-010-0-92 ODOT 56 N/A - SEE BINDER B-1 B-001-0-90 ODOT 56 N/A - SEE BINDER B-2 B-002-0-90 ODOT 56 108 B-3 B-003-0-90 ODOT 56 106 B-4 B-004-0-90 ODOT 56 N/A - SEE BINDER B-5 B-005-0-90 ODOT 56 N/A - SEE BINDER B-6 B-006-0-90 ODOT 56 N/A - SEE BINDER B-7 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 N/A - SEE BINDER B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 N/A - SEE BINDER B-8 B-009-0-0-86 LEWIN 69 N/A - SEE BINDER B-8 B-008-0-86 <td< td=""><td></td><td></td><td></td><td></td><td></td></td<>					
B-110 B-110-0-94 BBCM 56 92 B-10 B-010-0-92 ODOT 56 N/A - SEE BINDER B-1 B-001-0-90 ODOT 56 N/A - SEE BINDER B-2 B-002-0-90 ODOT 56 108 B-3 B-003-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-90 ODOT 56 N/A - SEE BINDER B-5 B-005-0-90 ODOT 56 N/A - SEE BINDER B-7 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 N/A - SEE BINDER B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-86 LEWIN 69 N/A - SEE BINDER B-5 B-005-0-86 LEWIN 64 N/A - SEE BINDER B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 81 B-90 B-090-0-64					
B-110 B-110-0-94 BBCM 56 92 B-10 B-010-0-92 ODOT 56 N/A - SEE BINDER B-1 B-001-0-90 ODOT 56 N/A - SEE BINDER B-2 B-002-0-90 ODOT 56 108 B-3 B-003-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-90 ODOT 56 N/A - SEE BINDER B-5 B-005-0-90 ODOT 56 N/A - SEE BINDER B-7 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 N/A - SEE BINDER B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-86 LEWIN 69 N/A - SEE BINDER B-5 B-005-0-86 LEWIN 64 N/A - SEE BINDER B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 81 B-90 B-090-0-64	B-109	<u>B-109-0</u> -94	BBCM	56	
B-10 B-010-0-92 ODOT 56 N/A - SEE BINDER B-1 B-001-0-90 ODOT 56 N/A - SEE BINDER B-2 B-002-0-90 ODOT 56 108 B-3 B-003-0-90 ODOT 56 108 B-4 B-004-0-90 ODOT 56 N/A - SEE BINDER B-5 B-005-0-90 ODOT 56 N/A - SEE BINDER B-7 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 N/A - SEE BINDER B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-86 LEWIN 69 N/A - SEE BINDER B-5 B-005-0-86 LEWIN 64 N/A - SEE BINDER B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 81 B-8 B-084-0-64 ODOT 49 N/A - SEE BINDER B-13 B-030-0-63	B-110	B-110-0-94	BBCM	56	
B-1 B-001-0-90 ODOT 56 N/A - SEE BINDER B-2 B-002-0-90 ODOT 56 108 B-3 B-003-0-90 ODOT 56 106 B-4 B-004-0-90 ODOT 56 N/A - SEE BINDER B-5 B-005-0-90 ODOT 56 N/A - SEE BINDER B-7 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 N/A - SEE BINDER B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-86 LEWIN 69 N/A - SEE BINDER B-5 B-005-0-86 LEWIN 64 N/A - SEE BINDER B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 49, 82 B-8 B-084-0-64 ODOT 49 81 B-90 B-090-0-64 ODOT 49 N/A - SEE BINDER B-6 B-066-0-63 ODO					
B-2 B-002-0-90 ODOT 56 108 B-3 B-003-0-90 ODOT 56 106 B-4 B-004-0-90 ODOT 56 N/A - SEE BINDER B-5 B-005-0-90 ODOT 56 N/A - SEE BINDER B-7 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 N/A - SEE BINDER B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-9 B-009-0-86 LEWIN 69 N/A - SEE BINDER B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 81 B-90 B-090-0-64					
B-3 B-003-0-90 ODOT 56 106 B-4 B-004-0-90 ODOT 56 N/A - SEE BINDER B-5 B-005-0-90 ODOT 56 N/A - SEE BINDER B-6 B-006-0-90 ODOT 56 N/A - SEE BINDER B-7 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 92, 108 B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-86 LEWIN 69 N/A - SEE BINDER B-5 B-005-0-86 LEWIN 64 N/A - SEE BINDER B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 49, 82 B-84 B-084-0-64 ODOT 49 N/A - SEE BINDER B-90 B-090-0-64 ODOT 49 N/A - SEE BINDER B-13 B-033-0-63 ODOT 51 N/A - SEE BINDER B-103 B-013-0-6					
B-3 B-003-0-90 ODOT 56 106 B-4 B-004-0-90 ODOT 56 N/A - SEE BINDER B-5 B-005-0-90 ODOT 56 108 B-6 B-006-0-90 ODOT 56 N/A - SEE BINDER B-7 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 N/A - SEE BINDER B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-86 LEWIN 69 N/A - SEE BINDER B-5 B-005-0-86 LEWIN 64 N/A - SEE BINDER B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 49, 82 B-84 B-084-0-64 ODOT 49 N/A - SEE BINDER B-6 B-090-0-64 ODOT 49 N/A - SEE BINDER B-13 B-033-0-63 ODOT 51 N/A - SEE BINDER B-103 B-013-0-63 <td>B-2</td> <td> B-002-0-90 </td> <td>ODOT</td> <td> 56 </td> <td>108</td>	B-2	B-002-0-90	ODOT	56	108
B-4 B-004-0-90 ODOT 56 N/A - SEE BINDER B-5 B-005-0-90 ODOT 56 108 B-6 B-006-0-90 ODOT 56 N/A - SEE BINDER B-7 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 92, 108 B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-86 LEWIN 69 N/A - SEE BINDER B-5 B-005-0-86 LEWIN 64 N/A - SEE BINDER B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 49, 82 B-84 B-084-0-64 ODOT 49 N/A - SEE BINDER B-6 B-090-0-64 ODOT 49 N/A - SEE BINDER B-13 B-013-0-63 ODOT 51 N/A - SEE BINDER B-13 B-03-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58	B-3		ODOT		
B-5 B-005-0-90 ODOT 56 108 B-6 B-006-0-90 ODOT 56 N/A - SEE BINDER B-7 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 92, 108 B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-86 LEWIN 69 N/A - SEE BINDER B-5 B-005-0-86 LEWIN 64 N/A - SEE BINDER B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 49, 82 B-84 B-084-0-64 ODOT 49 N/A - SEE BINDER B-90 B-090-0-64 ODOT 49 N/A - SEE BINDER B-6 B-006-0-63 ODOT 51 N/A - SEE BINDER B-13 B-013-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58 ODOT 69 N/A - SEE BINDER B-106 B-106-0					
B-6 B-006-0-90 ODOT 56 N/A - SEE BINDER B-7 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 92, 108 B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-86 LEWIN 69 N/A - SEE BINDER B-5 B-005-0-86 LEWIN 64 N/A - SEE BINDER B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 49, 82 B-84 B-084-0-64 ODOT 49 N/A - SEE BINDER B-90 B-090-0-64 ODOT 49 N/A - SEE BINDER B-6 B-006-0-63 ODOT 51 N/A - SEE BINDER B-13 B-013-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58 ODOT 51 N/A - SEE BINDER B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A					
B-7 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 92, 108 B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-86 LEWIN 69 N/A - SEE BINDER B-5 B-05-0-86 LEWIN 64 N/A - SEE BINDER B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 49, 82 B-84 B-084-0-64 ODOT 49 N/A - SEE BINDER B-90 B-090-0-64 ODOT 49 N/A - SEE BINDER B-6 B-066-0-63 ODOT 51 N/A - SEE BINDER B-13 B-013-0-63 ODOT 51 N/A - SEE BINDER B-103 B-013-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58 ODOT 69 N/A - SEE BINDER B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A	B-5_	<u>B-005-</u> 0-90	ODOT	56	
B-7 B-007-0-90 ODOT 56 N/A - SEE BINDER B-8 B-008-0-90 ODOT 56 92, 108 B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-86 LEWIN 69 N/A - SEE BINDER B-5 B-05-0-86 LEWIN 64 N/A - SEE BINDER B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 49, 82 B-84 B-084-0-64 ODOT 49 N/A - SEE BINDER B-90 B-090-0-64 ODOT 49 N/A - SEE BINDER B-6 B-066-0-63 ODOT 51 N/A - SEE BINDER B-13 B-013-0-63 ODOT 51 N/A - SEE BINDER B-103 B-013-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58 ODOT 69 N/A - SEE BINDER B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A	B-6	B-006-0-90	ODOT	56	N/A - SFE BINDER
B-8 B-008-0-90 ODOT 56 92,108 B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-86 LEWIN 69 N/A - SEE BINDER B-5 B-005-0-86 LEWIN 64 N/A - SEE BINDER B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 49, 82 B-84 B-084-0-64 ODOT 49 N/A - SEE BINDER B-90 B-090-0-64 ODOT 49 N/A - SEE BINDER B-6 B-006-0-63 ODOT 51 N/A - SEE BINDER B-13 B-013-0-63 ODOT 51 N/A - SEE BINDER B-23 B-023-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58 ODOT 69 N/A - SEE BINDER B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A B-106-0-58 ODOT 73 N/A - SEE BINDER B-111					
B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-86 LEWIN 69 N/A - SEE BINDER B-5 B-005-0-86 LEWIN 64 N/A - SEE BINDER B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 49, 82 B-84 B-084-0-64 ODOT 49 81 B-90 B-090-0-64 ODOT 49 N/A - SEE BINDER B-6 B-006-0-63 ODOT 51 N/A - SEE BINDER B-13 B-013-0-63 ODOT 51 N/A - SEE BINDER B-23 B-023-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58 ODOT 69 N/A - SEE BINDER B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A B-106-A-58 ODOT 73 N/A - SEE BINDER B-111 B-111-0-58 ODOT 73 N/A - SEE BINDER					
B-9 B-009-0-90 ODOT 56 N/A - SEE BINDER B-4 B-004-0-86 LEWIN 69 N/A - SEE BINDER B-5 B-005-0-86 LEWIN 64 N/A - SEE BINDER B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 49, 82 B-84 B-084-0-64 ODOT 49 81 B-90 B-090-0-64 ODOT 49 N/A - SEE BINDER B-6 B-006-0-63 ODOT 51 N/A - SEE BINDER B-13 B-013-0-63 ODOT 51 N/A - SEE BINDER B-23 B-023-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58 ODOT 69 N/A - SEE BINDER B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A B-106-A-58 ODOT 73 N/A - SEE BINDER B-111 B-111-0-58 ODOT 73 N/A - SEE BINDER	R-8	R-008-0-80	ODOT	56	
B-4 B-004-0-86 LEWIN 69 N/A - SEE BINDER B-5 B-005-0-86 LEWIN 64 N/A - SEE BINDER B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 49, 82 B-84 B-084-0-64 ODOT 49 N/A - SEE BINDER B-9 B-090-0-64 ODOT 49 N/A - SEE BINDER B-6 B-06-0-63 ODOT 51 N/A - SEE BINDER B-13 B-013-0-63 ODOT 51 N/A - SEE BINDER B-23 B-023-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58 ODOT 69 71 B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A B-106-A-58 ODOT 69 N/A - SEE BINDER B-111 B-111-0-58 ODOT 73 N/A - SEE BINDER	B-9	B-009-0-90	ODOT	56	
B-5 B-005-0-86 LEWIN 64 N/A - SEE BINDER B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 49, 82 B-84 B-084-0-64 ODOT 49 N/A - SEE BINDER B-90 B-090-0-64 ODOT 49 N/A - SEE BINDER B-13 B-013-0-63 ODOT 51 N/A - SEE BINDER B-23 B-023-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58 ODOT 69 71 B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A B-106-A-58 ODOT 69 N/A - SEE BINDER B-111 B-111-0-58 ODOT 73 N/A - SEE BINDER B-114 B-114-0-58 ODOT 73 N/A - SEE BINDER					
B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 49, 82 B-84 B-084-0-64 ODOT 49 N/A - SEE BINDER B-90 B-090-0-64 ODOT 49 N/A - SEE BINDER B-6 B-06-0-63 ODOT 51 N/A - SEE BINDER B-13 B-013-0-63 ODOT 51 N/A - SEE BINDER B-23 B-023-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58 ODOT 69 71 B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A B-106-A-58 ODOT 69 N/A - SEE BINDER B-111 B-111-0-58 ODOT 73 N/A - SEE BINDER B-114 B-114-0-58 ODOT 73 N/A - SEE BINDER					
B-8 B-008-0-86 R & R 51 N/A - SEE BINDER B-10 B-010-0-64 ODOT 49 49, 82 B-84 B-084-0-64 ODOT 49 N/A - SEE BINDER B-90 B-090-0-64 ODOT 49 N/A - SEE BINDER B-6 B-06-0-63 ODOT 51 N/A - SEE BINDER B-13 B-013-0-63 ODOT 51 N/A - SEE BINDER B-23 B-023-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58 ODOT 69 71 B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A B-106-A-58 ODOT 69 N/A - SEE BINDER B-111 B-111-0-58 ODOT 73 N/A - SEE BINDER B-114 B-114-0-58 ODOT 73 N/A - SEE BINDER	R-2		LEWIN		N/A - SEE BINDER
B-10 B-010-0-64 ODOT 49 49, 82 B-84 B-084-0-64 ODOT 49 81 B-90 B-090-0-64 ODOT 49 N/A - SEE BINDER B-6 B-006-0-63 ODOT 51 N/A - SEE BINDER B-13 B-013-0-63 ODOT 51 N/A - SEE BINDER B-23 B-023-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58 ODOT 69 71 B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A B-106-A-58 ODOT 69 N/A - SEE BINDER B-111 B-111-0-58 ODOT 73 N/A - SEE BINDER B-114 B-114-0-58 ODOT 73 N/A - SEE BINDER	B-8	B-008-0-86	R & R	51	N/A - SEE BINDER
B-84 B-084-0-64 ODOT 49 81 B-90 B-090-0-64 ODOT 49 N/A - SEE BINDER B-6 B-060-0-63 ODOT 51 N/A - SEE BINDER B-13 B-013-0-63 ODOT 51 N/A - SEE BINDER B-23 B-023-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58 ODOT 69 71 B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A B-106-A-58 ODOT 69 N/A - SEE BINDER B-111 B-111-0-58 ODOT 73 N/A - SEE BINDER B-114 B-114-0-58 ODOT 73 N/A - SEE BINDER					
B-90 B-090-0-64 ODOT 49 N/A - SEE BINDER B-6 B-006-0-63 ODOT 51 N/A - SEE BINDER B-13 B-013-0-63 ODOT 51 N/A - SEE BINDER B-23 B-023-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58 ODOT 69 71 B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A B-106-A-58 ODOT 69 N/A - SEE BINDER B-111 B-111-0-58 ODOT 73 N/A - SEE BINDER B-114 B-114-0-58 ODOT 73 N/A - SEE BINDER					
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B-6 B-006-0-63 ODOT 51 N/A - SEE BINDER B-13 B-013-0-63 ODOT 51 N/A - SEE BINDER B-23 B-023-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58 ODOT 69 71 B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A B-106-A-58 ODOT 69 N/A - SEE BINDER B-111 B-111-0-58 ODOT 73 N/A - SEE BINDER B-114 B-114-0-58 ODOT 73 N/A - SEE BINDER	B-90	B-090-0-64	ODOT	49	N/A - SEE BINDER
B-13 B-013-0-63 ODOT 51 N/A - SEE BINDER B-23 B-023-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58 ODOT 69 71 B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A B-106-A-58 ODOT 69 N/A - SEE BINDER B-111 B-111-0-58 ODOT 73 N/A - SEE BINDER B-114 B-114-0-58 ODOT 73 N/A - SEE BINDER					N/A - SEE BINDED
B-23 B-023-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58 ODOT 69 71 B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A B-106-A-58 ODOT 69 N/A - SEE BINDER B-111 B-111-0-58 ODOT 73 N/A - SEE BINDER B-114 B-114-0-58 ODOT 73 N/A - SEE BINDER					
B-23 B-023-0-63 ODOT 51 N/A - SEE BINDER B-103 B-103-0-58 ODOT 69 71 B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A B-106-A-58 ODOT 69 N/A - SEE BINDER B-111 B-111-0-58 ODOT 73 N/A - SEE BINDER B-114 B-114-0-58 ODOT 73 N/A - SEE BINDER	B-13	<u> B-0</u> 13-0-63	ODOT		
B-103 B-103-0-58 ODOT 69 71 B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A B-106-A-58 ODOT 69 N/A - SEE BINDER B-111 B-111-0-58 ODOT 73 N/A - SEE BINDER B-114 B-114-0-58 ODOT 73 N/A - SEE BINDER	B-23	B-023-0-63	ODOT	51	N/A - SEE BINDER
B-106 B-106-0-58 ODOT 69 N/A - SEE BINDER B-106A B-106-A-58 ODOT 69 N/A - SEE BINDER B-111 B-111-0-58 ODOT 73 N/A - SEE BINDER B-114 B-114-0-58 ODOT 73 N/A - SEE BINDER					
B-106A B-106-A-58 ODOT 69 N/A - SEE BINDER B-111 B-111-O-58 ODOT 73 N/A - SEE BINDER B-114 B-114-O-58 ODOT 73 N/A - SEE BINDER					
B-106A B-106-A-58 ODOT 69 N/A - SEE BINDER B-111 B-111-O-58 ODOT 73 N/A - SEE BINDER B-114 B-114-O-58 ODOT 73 N/A - SEE BINDER	B-106	<u> B-10</u> 6-0-58	ODOT	69	
B-111 B-111-0-58 ODOT 73 N/A - SEE BINDER B-114 B-114-0-58 ODOT 73 N/A - SEE BINDER		B-106-A-58	ODOT	69	
B-114 B-114-0-58 ODOT 73 N/A - SEE BINDER		5 ,55 4 50			N/A SEE DINDER
	B-106A	D 111 A FA			
	B-106A B-111				
The state of the s	B-106A B-111				
	B-106A B-111 B-114	B-114-0-58	ODOT	73	N/A - SEE BINDER

SHEET INDEX OF SOIL BORING LOCATIONS

B&P = BARR & PREVOST
BBCM = BBC&M ENGINEERING, INC.
DLZ = DLZ CORPORATION
LEWIN = DAVID V. LEWIN CORPORATION
ODOT = OHIO DEPARTMENT OF TRANSPORTATION
R&R = R&R INTERNATIONAL, INC.

SHEE	T INDEX	OF SOIL B	ORING LO	
ORIGINAL	CCE		LOCATION	OF BORING
	SGE	COMPANY	BORING	DODING
BORING	BORING	(ABBREVIATED)	MARKER	BORING
NO.	NO.	(,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	(PLAN)	PROFILE
B-039-1-10	B-039-1-10	B&P	56	57
B-044-1-10	B-044-1-10	B&P	59	60
B-047-2-10	B-047-2-10	B&P	64	65,100
B-069-1-10	B-069-1-10	B&P	73	73A
B-069-2-10	B-069-2-10	B&P	73	73A
B-074-1-10	B-074-1-10	B&P	75	76
B-001-0-09	B-001-0-09	B&P	47	48
B-002-0-09	B-002-0-09	B&P	47	47
B-003-0-09	B-003-0-09	B&P	47	48
B-004-0-09	B-004-0-09	B&P	47	47
B-005-0-09	B-005-0-09	B&P	47	47
B-006-0-09	B-006-0-09	B&P	47	48
B-007-0-09	B-007-0-09	B&P	47	47
B-008-0-09	B-008-0-09	B&P	47	48
B-009-0-09	B-009-0-09	B&P	47	47
B-010-0-09	B-010-0-09	B&P	47	47
B-011-0-09	B-011-0-09	B&P	47	48
B-012-0-09	B-012-0-09	B&P	47	47
B-012-1-09	B-012-1-09	B&P	47	48
B-012-2-09	B-012-2-09	B&P	49	50
B-013-0-09	B-013-0-09	B&P	49	49
B-014-0-09	B-014-0-09	B&P	49	50
B-015-0-09	B-015-0-09	B&P	49	49
B-016-0-09	B-016-0-09	B&P	49	81
B-017-0-09	B-017-0-09	B&P	49	49
B-018-0-09	B-018-0-09	B&P	49	
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B-019-0-09	B-019-0-09	B&P	51	83
B-019-1-09	B-019-1-09	B&P	51	83
B-020-0-09	B-020-0-09	B&P	51	52, 83
B-021-0-09	B-021-0-09	B&P	51	52
B-022-0-09	B-022-0-09	B&P	51	52,84
B-022-1-09	B-022-1-09	B&P	51	N/A - NO LOG
B-023-0-09	B-023-0-09	B&P	51	52
B-023-1-09	B-023-1-09	B&P	51	116
B-023-2-09	B-023-2-09	B&P	51	54, 116
B-024-0-09	B-024-0-09	B&P	51	55
B-025-0-09	B-025-0-09	B&P	51	52
B-027-0-09	B-027-0-09	B&P	51	54
B-027-1-09	B-027-1-09	B&P	51	54
B-028-0-09	B-028-0-09	B&P	51	54
B-029-0-09	B-029-0-09	B&P	51	55
	B-030-0-09			
B-030-0-09		B&P	51	54
B-031-0-09	B-031-0-09	B&P	51	52
B-032-0-09	B-032-0-09	B&P	51	54,55
B-033-0-09	B-033-0-09	B&P	51	54
B-034-0-09	B-034-0-09	B&P	51	55, 86
B-035-0-09	B-035-0-09	BBCM	56	57, 88
B-036-0-09	B-036-0-09	BBCM	56	112
B-037-0-09	B-037-0-09	BBCM	56	112
B-037-1-09	B-037-1-09	BBCM	56	57, 90
B-037-2-09	B-037-2-09	BBCM	56	113
B-038-0-09	B-038-0-09	BBCM	56	112
B-038-1-09	B-038-1-09	BBCM	56	113
B-039-0-09	B-039-0-09	B&P	56	94
B-040-0-09	B-040-0-09	B&P	56	57
B-041-0-09	B-041-0-09	B&P	59	60
B-042-0-09	B-042-0-09	B&P	59	60
B-043-0-09	B-043-0-09	B&P	59	60
B-044-0-09	B-044-0-09	B&P	59	60
B-045-0-09	B-045-0-09	B&P	64	65
B-047-0-09	B-047-0-09	B&P	64	67, 98
B-047-1-09	B-047-1-09	B&P	64	65, 98
		B&P		
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B-051-0-09	B-051-0-09	B&P	64	65
B-052-0-09	B-052-0-09	B&P	64	67
B-053-0-09	B-053-0-09	B&P	64	68
B-054-0-09	B-054-0-09	B&P	64	
				72, 102
B-055-0-09	B-055-0-09	B&P	64	65, 71, 102
B-056-0-09	B-056-0-09	B&P	64	72
B-058-0-09	B-058-0-09	B&P	64	71
B-059-0-09	B-059-0-09	B&P	64	65
B-060-0-09	B-060-0-09	B&P	69	70, 71, 103
	B-061-0-09	B&P	69	72, 103
B-061-0-09				
B-061-0-09 B-062-0-09	B-062-0-09	B&P	69	103
			69 69	103 70

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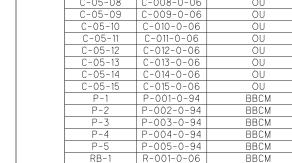


SHEE	ET INDEX	OF SOIL	BORING LO	CATIONS
DIOINA	605		LOCATION	I OF BORING
RIGINAL	SGE	COMPANY	BORING	DODING
BORING	BORING	(ABBREVIATED)	MARKER	BORING
NO.	NO.		(PLAN)	PROFILE
RB-10	R-010-0-06	BBCM	78	N/A - SEE BINDER
RB-11	R-011-0-06	BBCM	78	79
RB-12	R-012-0-06	BBCM	78	79,80
RB-13	R-013-0-06	BBCM	78	79
RB-14	R-014-0-06	BBCM	75	77
RB-15	R-015-0-06	BBCM	64	77
RB-16	R-016-0-06	BBCM	78	80
RB-17	R-017-0-06	BBCM	73	N/A - SEE BINDER
RB-18	R-018-0-06	ВВСМ	73	N/A - SEE BINDER
RB-22	R-022-0-06	BBCM	73	N/A - SEE BINDER
RB-23	R-023-0-06	BBCM	73	N/A - SEE BINDER
R-201	R-201-0-58	ODOT	69	N/A - SEE BINDER
R-202	R-202-0-58	ODOT	69	N/A - SEE BINDER
R-204	R-204-0-58	ODOT	73	N/A - SEE BINDER
SB-1	S-001-0-06	BBCM	49	49
SB-2	S-002-0-06	BBCM	49	50
SB-3	S-003-0-06	BBCM	49	49
SB-4	S-004-0-06	BBCM	49	50
SB-5	S-005-0-06	BBCM	49	50
SB-6	S-006-0-06	BBCM	49	49
SB-7	S-007-0-06	BBCM	49	50
SB-8	S-008-0-06	BBCM	49	49
SB-9	S-009-0-06	BBCM	51	52
SB-10	S-010-0-06	BBCM	51	84
SB-11	S-011-0-06	BBCM	51	52
SB-12	S-012-0-06	BBCM	51	52
SB-13	S-013-0-06	BBCM	69	70, 72
SB-14	S-014-0-06	BBCM	69	70
SB-15 SB-16	S-015-0-06	BBCM	69 69	70 74
SB-16 SB-17	S-016-0-06 S-017-0-06	BBCM BBCM	69	74
SB-18	S-018-0-06	BBCM	69	74
SB-19	S-019-0-06	BBCM	73	114
SB-20	S-020-0-06	BBCM	73	74, 114
SB-21	S-021-0-06	BBCM	73	N/A - SEE BINDER
SB-22	S-022-0-06	BBCM	73	N/A - SEE BINDER
SB-23	S-023-0-06	BBCM	73	N/A - SEE BINDER
SB-27	S-027-0-06	BBCM	75	76
SB-28	S-028-0-06	ВВСМ	75	76
SB-29	S-029-0-06	BBCM	78	76, 79
T-9	T-009-0-23	CUT	78	N/A - SEE BINDER
T-9-1/2	T-009-1-23	CUT	78	N/A - SEE BINDER
T – 11	T-011-0-23	CUT	78	N/A - SEE BINDER
T-12	T-012-0-23	CUT	78	N/A - SEE BINDER
T-13-1/2	T-013-1-23	CUT	75	N/A - SEE BINDER
T-14	T-014-0-23	CUT	75	N/A - SEE BINDEF
T-16-1/2	T-016-1-23	CUT	75	N/A - SEE BINDEF
T-17	T-017-0-23	CUT	75	N/A - SEE BINDER
T-18	T-018-0-23	CUT	64	N/A - SEE BINDER
T-18-1/2	T-018-1-23	CUT	64	N/A - SEE BINDER
T-19	T-019-0-23	CUT	64	N/A - SEE BINDER
VB-2 VB-3	V-002-0-06 V-003-0-06	BBCM BBCM	56 56	96 N/A - SEE BINDEF
VB-3	V-003-0-06	BBCM	59	60
VB-5	V-005-0-06	BBCM	59	60
VB-7	V-007-0-06	BBCM	59	62
VB-8	V-008-0-06	BBCM	59	62
VB-9	V-009-0-06	BBCM	59	62
VB-10	V-010-0-06	ВВСМ	59	62
VB-11	V-011-0-06	BBCM	64	65
VB-11A	V-011-A-06	BBCM	64	67
VB-12	V-012-0-06	BBCM	64	98
VB-13	V-013-0-06	BBCM	64	77, 100
VB-14	V-014-0-06	BBCM	64	65
VB-15	V-015-0-06	BBCM	64	65
VB-16	V-016-0-06	BBCM	64	102
VB-17	V-017-0-06	BBCM	64	65,71
VB-18	V-018-0-06	BBCM	64	72
WB-1	W-001-0-06	BBCM	51	53
WB-2	W-002-0-06	BBCM	51	53
WB-3	W-003-0-06	BBCM	51	54
WB-4	W-004-0-06	BBCM	51	54
WB-5	W-005-0-06	BBCM	69	74
WB-6	W-006-0-06	BBCM	69	115
WB-7 WB-8	W-007-0-06	BBCM	73 69	74 72
M D_0	W-008-0-06	BBCM	03	14
			1	<u> </u>

SHEET INDEX OF SOIL BORING LOCATIONS

BBCM = BBC&M ENGINEERING, INC.
CUT = CLEVELAND UNION TERMINAL COMPANY
HNTB = HOWARD, NEEDLES, TAMMEN & BERGENDOFF CONSULTING ENGINEERS
NYC&ST LRR = NEW YORK, CHICAGO & ST. LOUIS RAILROAD COMPANY
ODOT = OHIO DEPARTMENT OF TRANSPORTATION
OU = OHIO UNIVERSITY

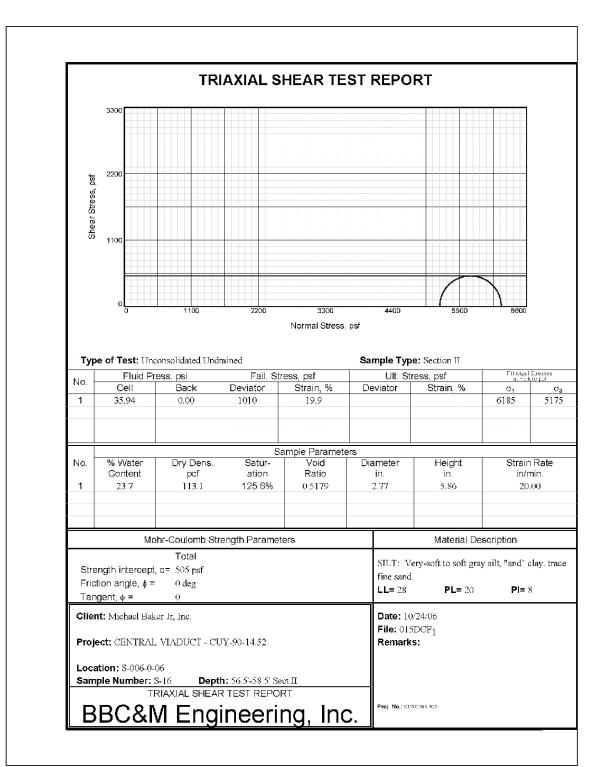
SHEE	T INDEX	OF SOIL	BORING LO	CATIONS
ODICIVII	605		LOCATION	OF BORING
ORIGINAL	SGE	COMPANY	BORING	
BORING	BORING			l BORING
NO.	NO.	(ABBREVIATED)		PROFILE
	1,0,		(PLAN)	11101122
BE-1	B-001-E-56	HNTB	64	N/A - SEE BINDE
BE-2	B-002-E-56	HNTB	64	N/A - SEE BINDE
BE-3	B-003-E-56	HNTB	64	N/A - SEE BINDE
BE-4	B-004-E-56	HNTB	64	N/A - SEE BINDE
BE-5	B-005-E-56	HNTB	64	N/A - SEE BINDE
BE-6	B-006-E-56	HNTB	64	N/A - SEE BINDE
BE-7	B-007-E-56	HNTB	64	71
BE-8	B-008-E-56	HNTB	64	N/A - SEE BINDE
BE-9	B-009-E-56	HNTB	64	N/A - SEE BINDE
BE-10	B-010-E-56	HNTB	69	N/A - SEE BINDE
BE-11	B-011-E-56	HNTB	69	N/A - SEE BINDE
B-1	B-001-0-55	NYC & ST LRR	56	112
B-2	B-002-0-55	NYC & ST LRR	56	92, 112
B-3	B-003-0-55	NYC & ST LRR	56	94
B-4	B-004-0-55	NYC & ST LRR	56	N/A - SEE BINDE
Boring-1	B-001-1-55	HNTB	56	N/A - SEE BINDE
Boring-2	B-002-1-55	HNTB	56	N/A - SEE BINDE
BW-1	B-001-W-55	HNTB	56	N/A - SEE BINDE
BW-2	B-002-W-55	HNTB	56	106
BW-3	B-003-W-55	HNTB	56	N/A - SEE BINDE
BW-4	B-004-W-55	HNTB	51	N/A - SEE BINDE
BW-5	B-005-W-55	HNTB	51	N/A - SEE BINDE
BW-6	B-006-W-55	HNTB	51	86
А	B-00A-0-54	HNTB	59	N/A - SEE BINDE
В	B-00B-0-54	HNTB	59	N/A - SEE BINDE
С	B-00B-0-54	HNTB	64	
				N/A - SEE BINDE
1	B-001-0-54	HNTB	56	N/A - SEE BINDE
2	B-002-0-54	HNTB	56	N/A - SEE BINDE
3	B-003-0-54	HNTB	56	N/A - SEE BINDE
4	B-004-0-54	HNTB	56	N/A - SEE BINDE
5	B-005-0-54	HNTB	56	N/A - SEE BINDE
6	B-006-0-54	HNTB	56	N/A - SEE BINDE
7	B-007-0-54	HNTB	56	N/A - SEE BINDE
8	B-008-0-54	HNTB	56	N/A - SEE BINDE
9	B-009-0-54	HNTB	59	N/A - SEE BINDE
10	B-010-0-54	HNTB	59	N/A - SEE BINDE
11	B-011-0-54	HNTB	59	N/A - SEE BINDE
12	B-012-0-54	HNTB	59	N/A - SEE BINDE
13	B-013-0-54	HNTB	59	N/A - SEE BINDE
14	B-014-0-54	HNTB	59	N/A - SEE BINDE
15	B-015-0-54	HNTB	59	N/A - SEE BINDE
16	B-016-0-54	HNTB	59	N/A - SEE BINDE
17	B-017-0-54	HNTB	64	N/A - SEE BINDE
18	B-018-0-54	HNTB	64	N/A - SEE BINDE
19	B-019-0-54	HNTB	64	N/A - SEE BINDE
20	B-020-0-54	HNTB	64	N/A - SEE BINDE
C-049-0-09	C-049-0-09	ODOT	64	N/A - SEE BINDE
C-057-0-09	C-057-0-09	ODOT	64	N/A - SEE BINDE
C-05-01	C-001-0-06	OU	56	N/A - SEE BINDE
C-05-02	C-002-0-06	OU	56	N/A - SEE BINDE
C-05-03	C-003-0-06	OU	56	N/A - SEE BINDE
C-05-04	C-004-0-06	OU	56	N/A - SEE BINDE
C-05-05	C-005-0-06			
		OU	51	N/A - SEE BINDE
C-05-06	C-006-0-06	OU	51	N/A - SEE BINDE
C-05-07	C-007-0-06	OU	51	N/A - SEE BINDE
C-05-08	C-008-0-06	OU	51	N/A - SEE BINDE
C-05-09	C-009-0-06	OU	51	N/A - SEE BINDE
C-05-10	C-010-0-06	OU	51	N/A - SEE BINDE
C-05-11	C-011-0-06	OU	56	N/A - SEE BINDE
C-05-12	C-012-0-06	OU	56	N/A - SEE BINDE
C-05-13	C-013-0-06	OU	56	N/A - SEE BINDE
C-05-14	C-014-0-06	OU	56	N/A - SEE BINDE
C-05-15	C-015-0-06	OU	56	N/A - SEE BINDE
P-1	P-001-0-94	BBCM	56	N/A - SEE BINDE
P-2	P-002-0-94	ВВСМ	56	106
P-3	P-003-0-94	BBCM	56	N/A - SEE BINDE
P-4	P-004-0-94	BBCM	56	N/A - SEE BINDE
P-5	P-005-0-94	BBCM	56	N/A - SEE BINDE
RB-1	R-001-0-06	BBCM	47	48
RB-2	R-002-0-06	BBCM	49	50
RB-3	R-003-0-06	BBCM	49	50
RB-4	R-004-0-06	BBCM	49	49
	R-005-0-06	BBCM	73	N/A - SEE BINDE
RB-5		DDCM	73	N/A - SEE BINDE
RB-6	R-006-0-06	BBCM		
	R-006-0-06 R-007-0-06	BBCM	59, 75	76
RB-6				

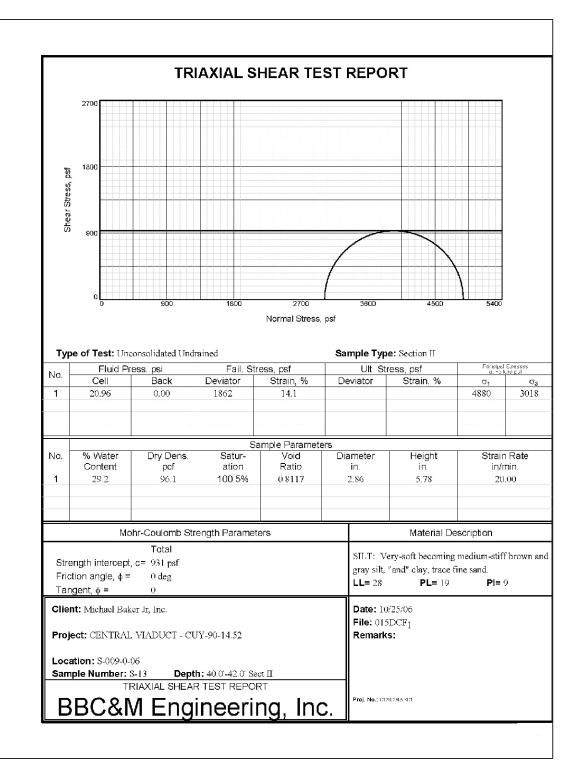


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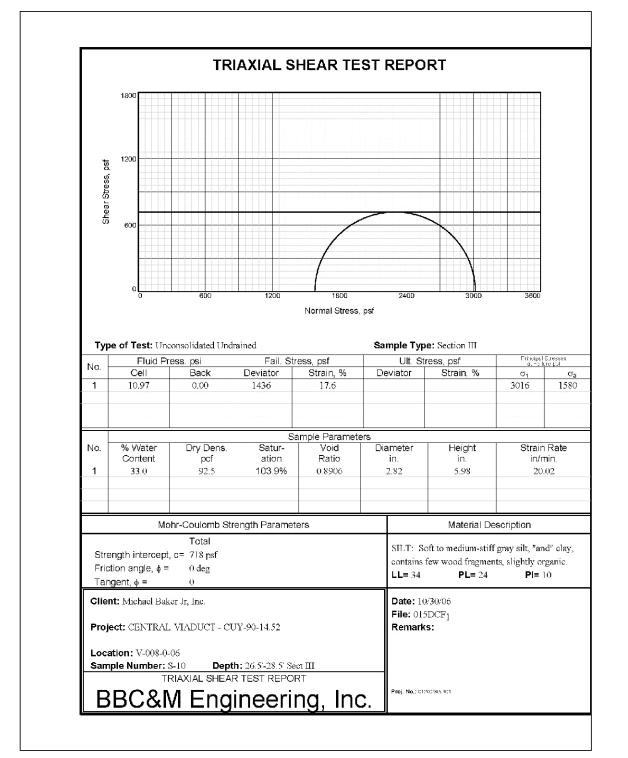


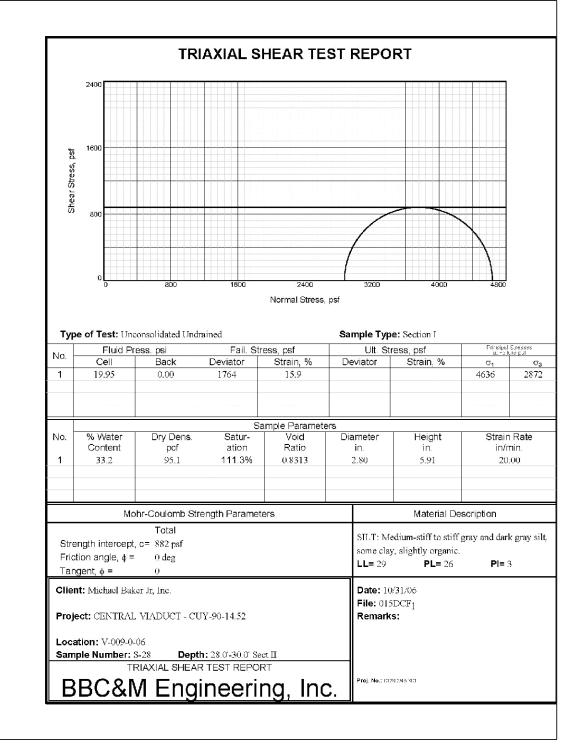




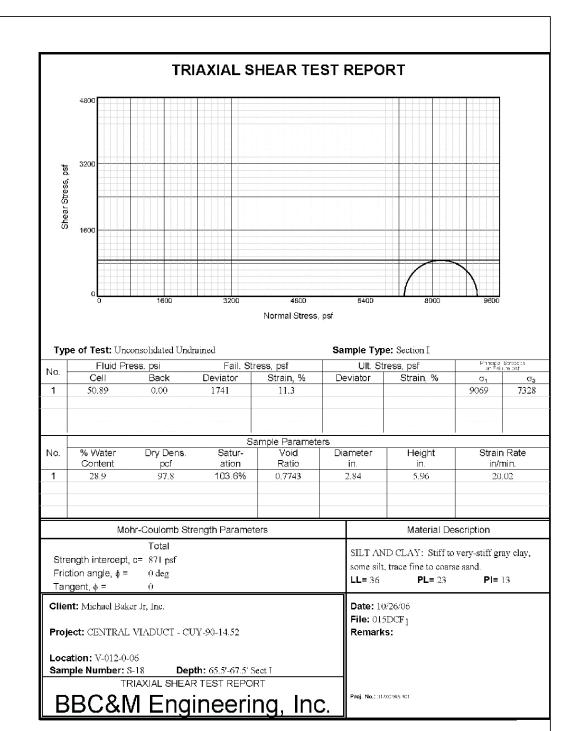


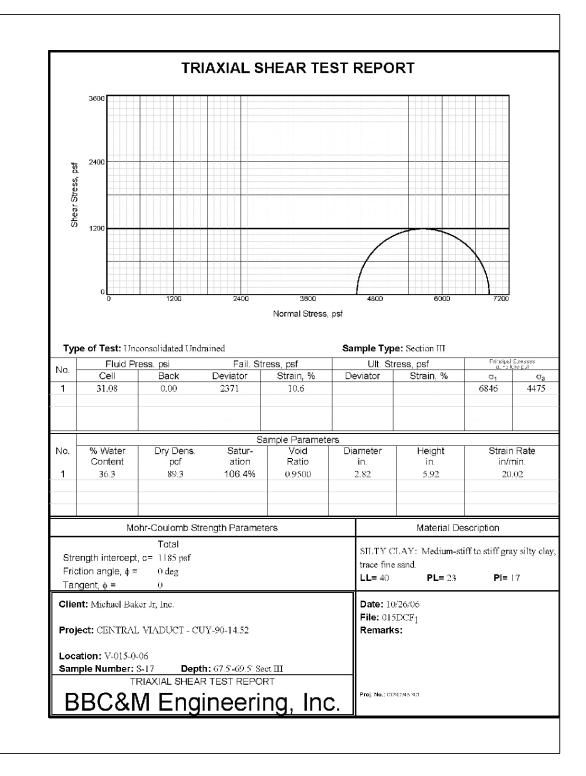






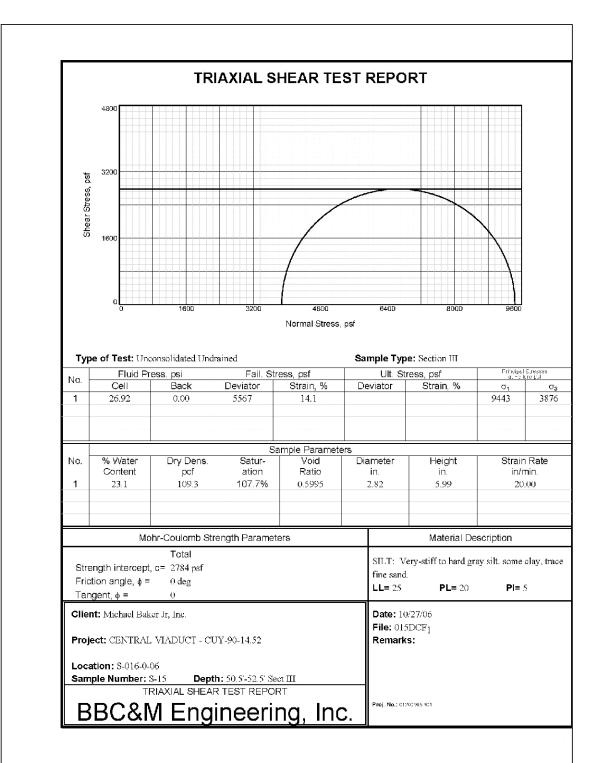


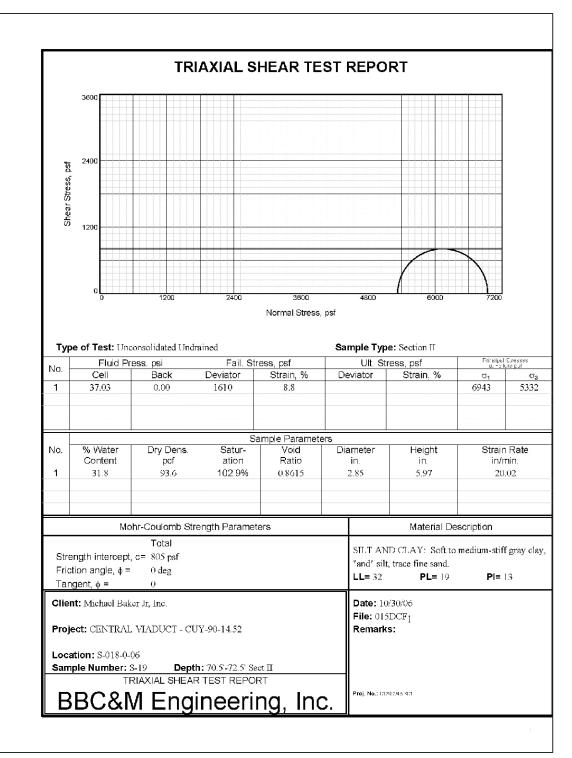




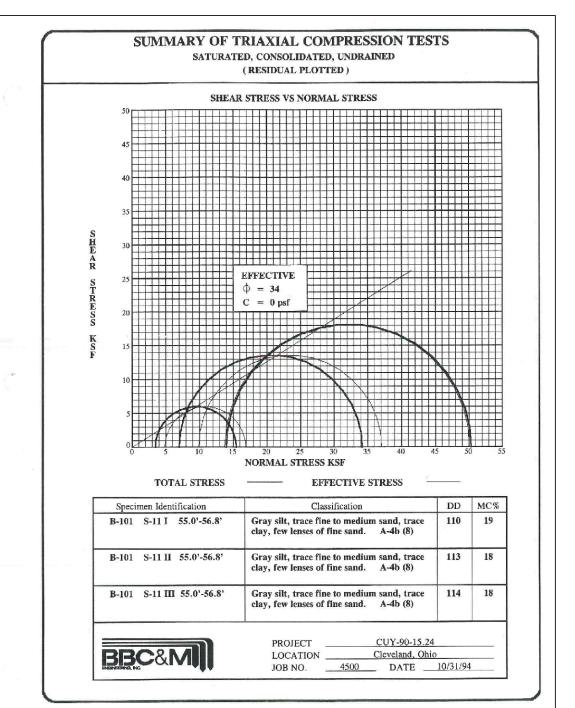


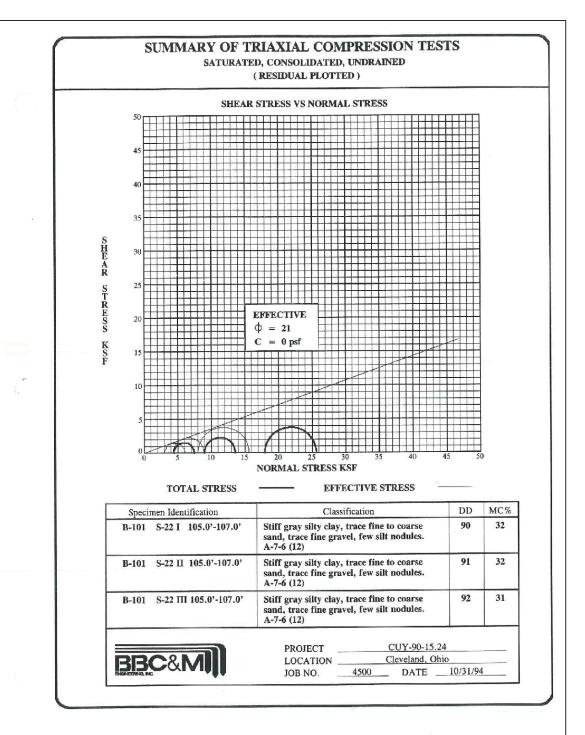




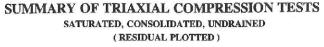




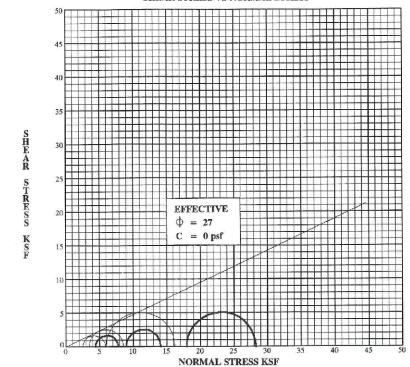












TOTAL STRESS ——

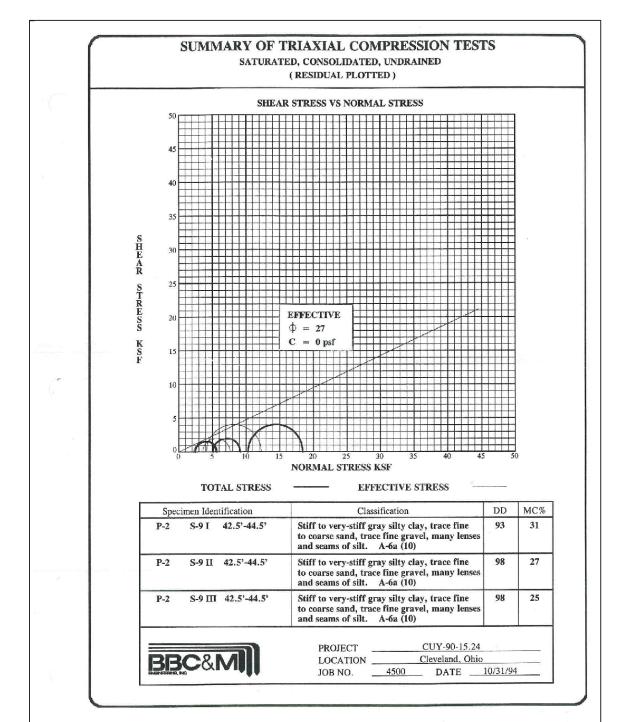
Specimen Identification			Classification		
B-102	S-23 I	115.5'-117.1'	Medium-stiff to stiff gray silty clay, trace fine to coarse sand, trace fine gravel. A-6b(11)	94	30
B-102	S-23 II	115.5'-117.1'	Medium-stiff to stiff gray silty clay, trace fine to coarse sand, trace fine gravel. A-6b(11)	94	30
B-102	S-23 II	I 115.5'-117.1'	Medium-stiff to stiff gray silty clay, trace fine to coarse sand, trace fine gravel. A-6b(11)	95	29

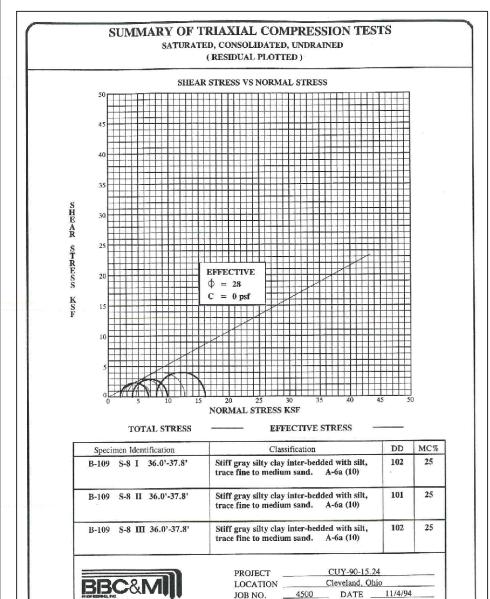
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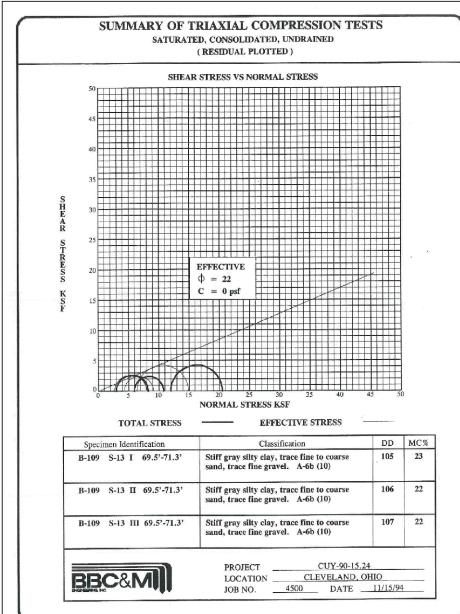
CUY-90-15.24 PROJECT LOCATION Cleveland, Ohio __ DATE ___10/31/94 4500

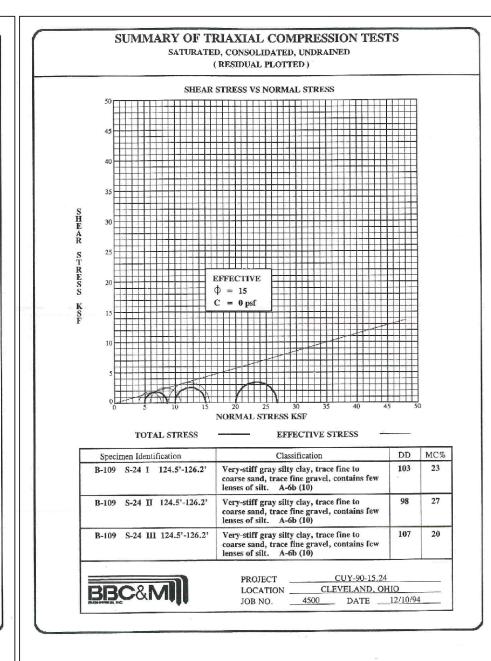
EFFECTIVE STRESS



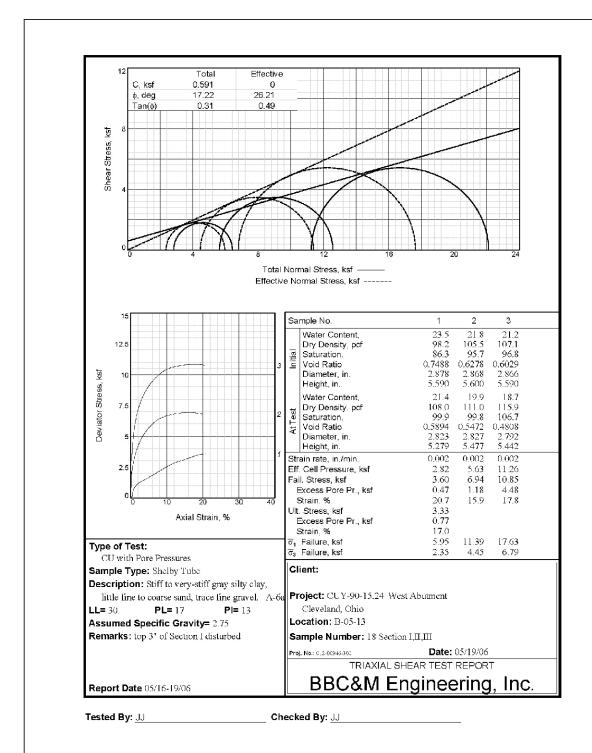


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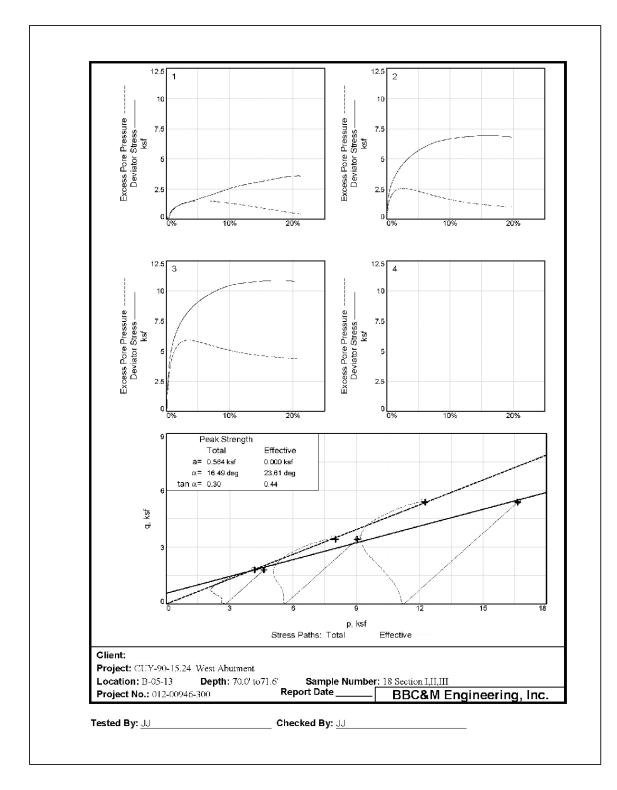


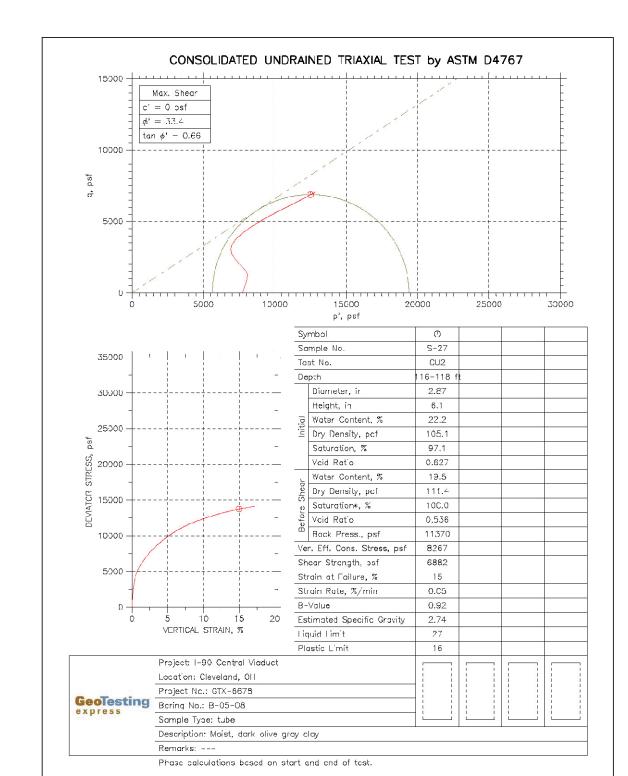
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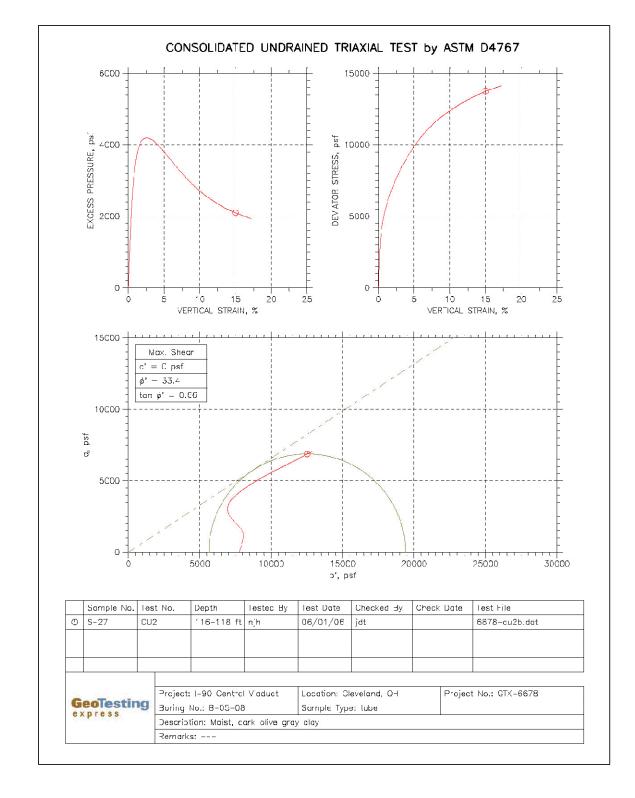


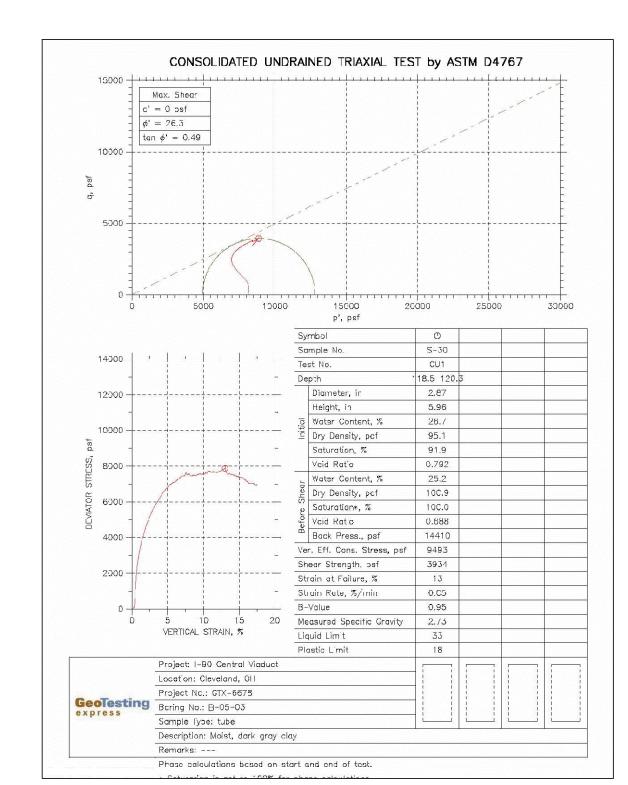
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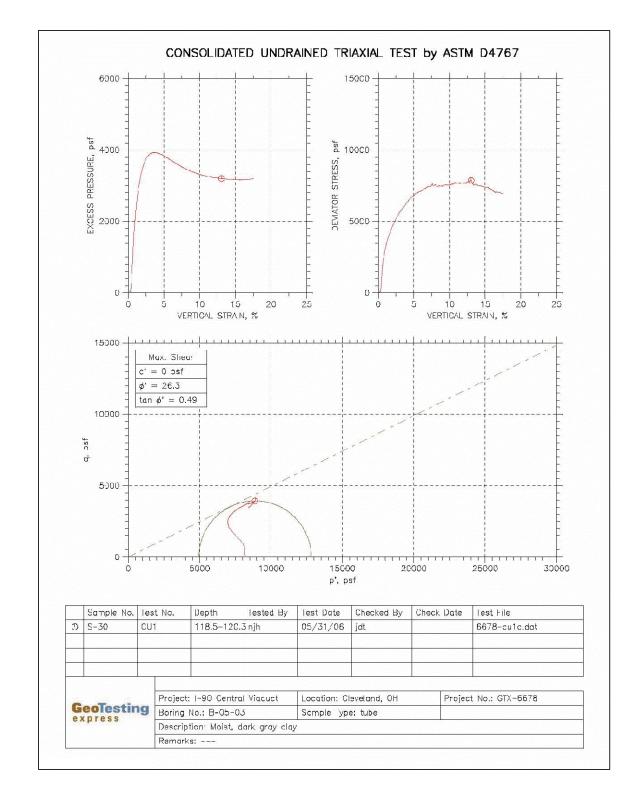
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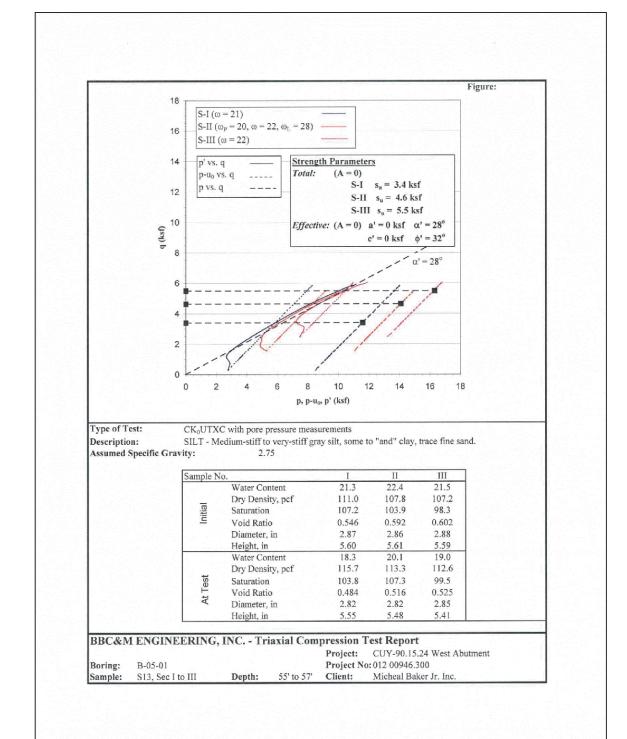






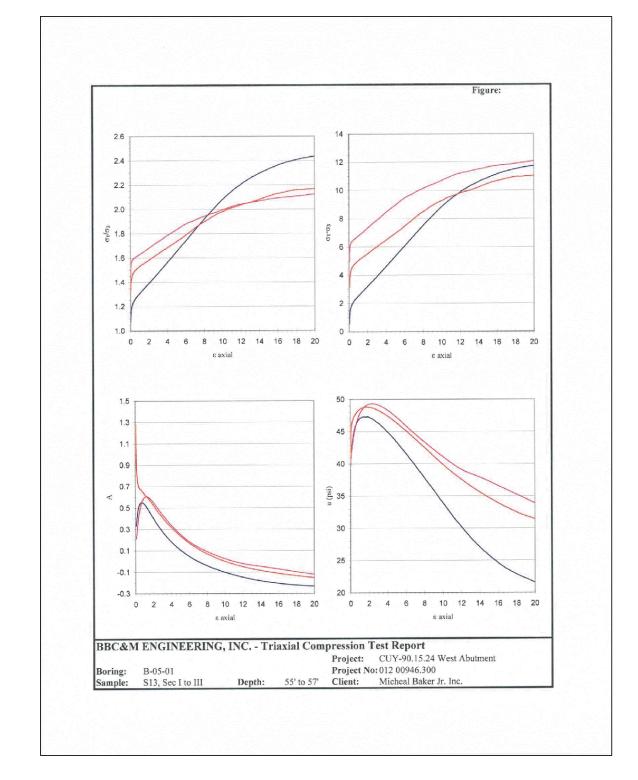


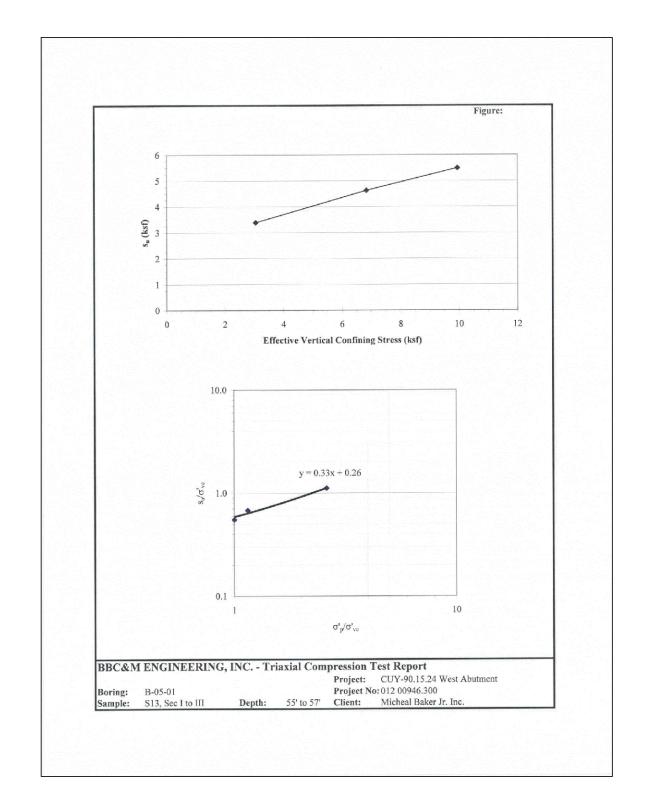


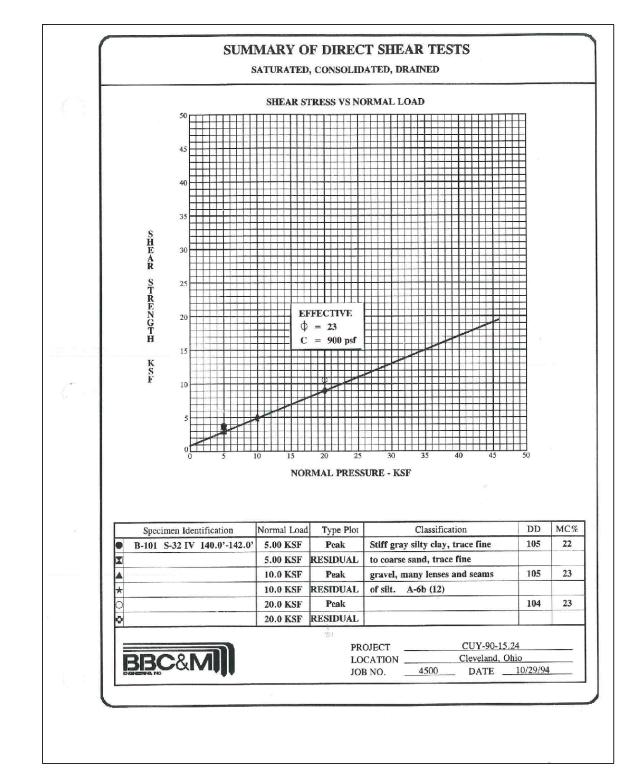


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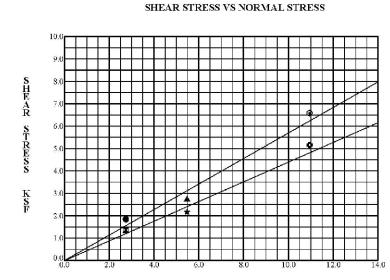


SUMMARY OF DIRECT SHEAR TESTS SATURATED, CONSOLIDATED, DRAINED ASTM D3080; AASHTO T-236

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NORMAL STRESS - KSF

DATA INTERPRETATION RESULTS						
Test Method	Drained Friction Angle	Drained Cohesion (ksf)				
Peak	30°	0				
Residual	24°	0				

	Specimen Identification	Normal Load	Type Plot	Classification	DD	MC%
•	B-037-1 S-22 II 66.0' to 68.0'	2.74 ksf	PEAK	Soft to stiff gray SILT AND CLAY,	96	28
I	B-037-1 S-22 II 66.0' to 68.0'	2.74 ksf	RESIDUAL	trace fine to coarse sand, trace fine	96	28
Δ	B-037-1 S-22 II 66.0' to 68.0'	5.47 ksf	PEAK	gravel, contains few lenses and	94	30
*	B-037-1 S-22 II 86.0' to 68.0'	5.47 ksf	RESIDUAL	seams of silt, moist.	94	30
0	B-037-1 S-22 II 86.0' to 68.0'	10.94 ksf	PEAK		100	24
0	B-037-1 S-22 II 86.0' to 88.0'	10.94 ksf	RESIDUAL		100	24

CUY-90-14.52, West Abutment PROJECT LOCATION

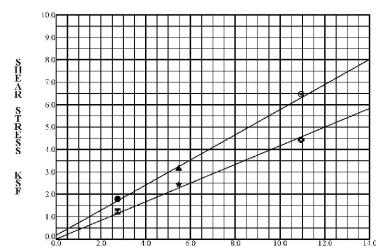
Cleveland, Ohio 012.00946.307 JOB NO. DATE 9/16/09

SUMMARY OF DIRECT SHEAR TESTS



SATURATED, CONSOLIDATED, DRAINED ASTM D3080; AASHTO T-236

SHEAR STRESS VS NORMAL STRESS



NORMAL STRESS - KSF

DATA INTERPRETATION RESULTS						
Test Method	Drained Friction Angle	Drained Cohesion (ksf)				
Peak	29	0.2				
Residual	23 ⁻	0				

	Specimen Ide	entification	Normal Load	Type Plot	Classification	DD	MC%
•	B-037-1 S-24	II 70.0' to 72.0'	2.74 ksf	PEAK	Medium-stiff gray SILTY CLAY,	91	32
I	B-037-1 S-24	II 70.0' to 72.0'	2.74 ksf	RESIDUAL	trace fine to coarse sand, trace fine	91	32
▲	B-037-1 S-24	II 70.0' to 72.0'	5.47 ksf	PEAK	gravel, contains few lenses and	94	29
*	B-037-1 S-24	11 70.0' to 72.0'	5.47 ksf	RESIDUAL	seams of silt, moist.	94	29
0	B-037-1 S-24	II 70.0' to 72.0'	10.94 ksf	PEAK		98	28
o	B-037-1 S-24	II 70.0' to 72.0'	10.94 ksf	RESIDUAL		98	28

CUY-90-14.52, West Abutment PROJECT

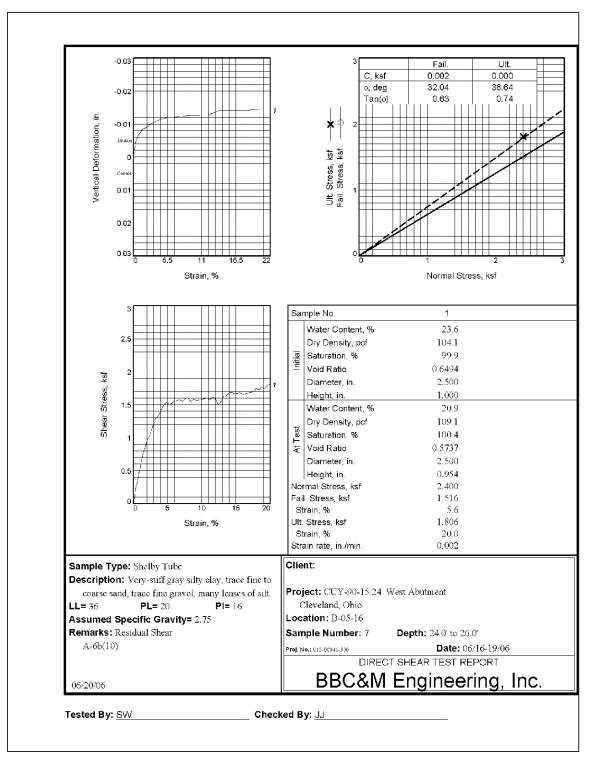
LOCATION JOB NO.

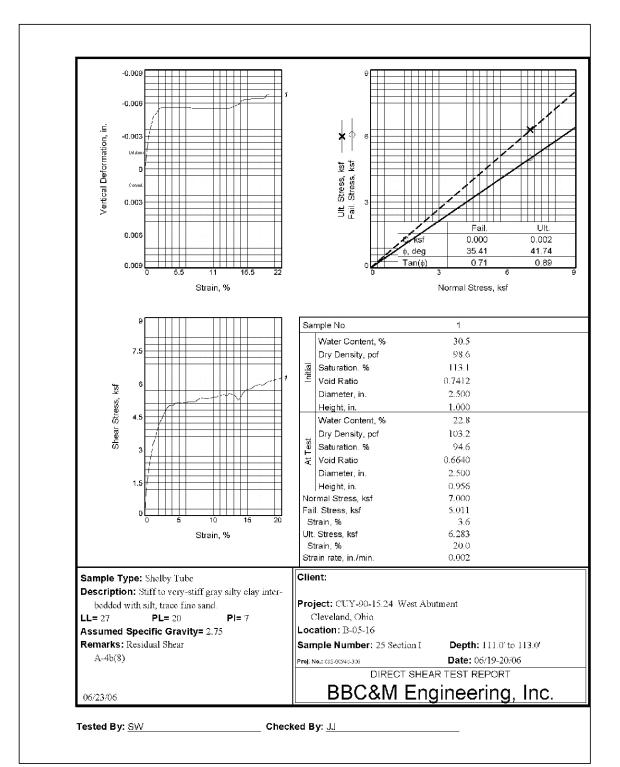
Cleveland, Ohio 012.00946.307 DATE 9/16/09



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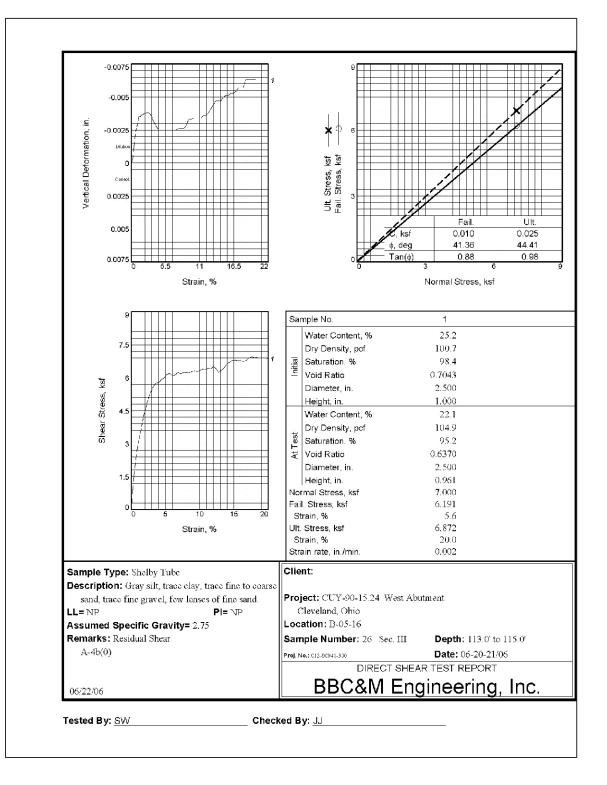




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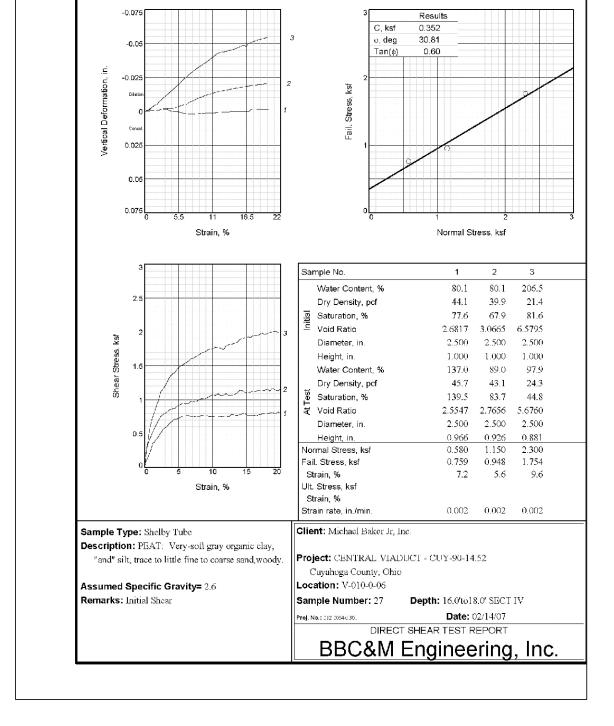
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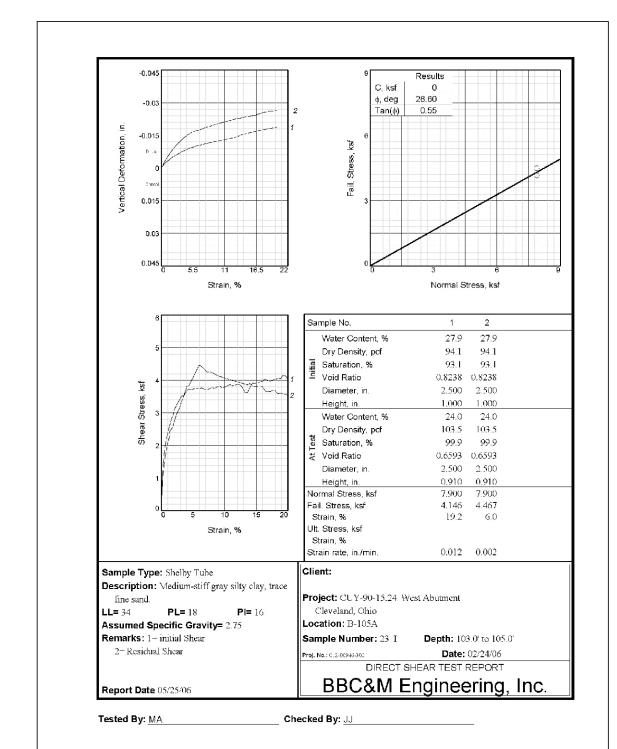


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SOIL PROFILE LABORATORY TEST

CUY





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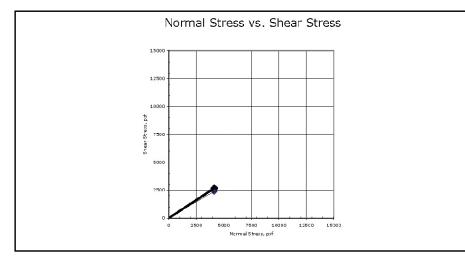
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Client:	Geocomp Consulting		
Project Name:	I-90 Central Viaduct		
Project Location:	Cleveland, OH		
GIX#:	66/8	Tested By:	njh/md
Test Date:	05/30/06	Checked By:	jdt
Boring ID:	B-05-08		
Sample ID:	S-27		
Depth, ft.	116-118 ft		
Description: Preparation:	Moist, olive gray clay Extruded from tube, cut received moisture and d		tested at the as

Direct Shear and Residual Shear by ASTM D 3080

Parameter	Point 1	Point 2	Point 3
Test No.	RS10		
Initial Moisture Content, %	21		
Initial Dry Density, pcf	108		
Nominal Rate of Shear Strain, inches/min	0.0002		
Vertical Consolidation Stress, psf	4130		
Peak Shear Stress, psf	2677		
Post-Peak Shear Stress, psf	2385		
Final Moisture Content, %	19		

Notes: Residual values taken near the end of the final shear	Peak Friction Angle:	33.0	degrees
step.	Peak Cohesion:	0	psf
	Post Peak Friction Angle:	30.0	degrees
	Post Peak Cohesion:	0	pst



See attached plots for additional information

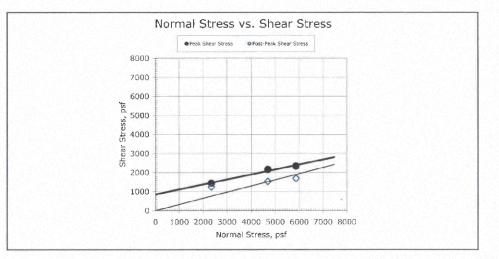


Client:	Geocomp Consultin	g	
Project Name:	I-90 Bridge		
Project Location:	ОН		
GTX #:	9236	Tested By:	md
Test Date:	08/19/09	Checked By:	jdt
Boring ID:	B-037-1		
Sample ID:	S-21		
Depth, ft.	64-66		
Description: Preparation:	Moist, brown clay with sand lenses Extruded from tube, cut and trimmed and tested at the as- received moisture and density.		

Residual Shear by USACOE EM1110

Parameter	Point 1	Point 2	Point 3
Test No.	RS-1	RS-2	RS-3A
Initial Moisture Content, %	21.3	28.9	27.1
Initial Dry Density, pcf	104	94.5	95.8
Nominal Rate of Shear Strain, inches/min	0.0005	0.0005	0.0005
Vertical Consolidation Stress, psf	2346	4691	5864
Peak Shear Stress, psf	1441	2159	2335
Post-Peak Shear Stress, psf	1241	1528	1696
Final Moisture Content , %	22.9	28.0	27.1

Peak Friction Angle:	14.7	degrees	
Peak Cohesion:	854.2	psf	
Post Peak Friction Angle:	17.9	degrees	
Post Peak Cohesion:	0.0	psi	



See attached plots for additional information

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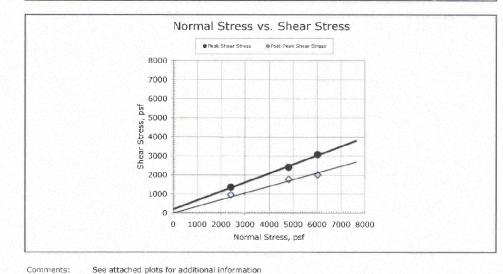
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Client:	Geocomp Consultin	g	
Project Name:	I-90 Bridge		
Project Location:	OH		
GTX #:	9236	Tested By:	md
Test Date:	08/19/09	Checked By:	jdt
Boring ID:	B-037-1		
Sample ID:	S-22		
Depth, ft.	66-68		
Description: Preparation:	Moist, brown clay with sand lenses Extruded from tube, cut and trimmed and tested at the as- received moisture and density.		

Residual Shear by USACOE EM1110

Parameter	Point 1	Point 2	Point 3
Test No.	RS-4	RS-5	RS-6
Initial Moisture Content, %	27.9	24.8	22.1
Initial Dry Density, pcf	95.8	100.0	101.0
Nominal Rate of Shear Strain, inches/min	0.0008	0.0008	0.0008
Vertical Consolidation Stress, psf	2408	4816	6020
Peak Shear Stress, psf	1356	2399	3079
Post-Peak Shear Stress, psf	960	1770	2007
Final Moisture Content , %	30.8	25.5	25.5

Peak Friction Angle:	25.2	degrees
Peak Cohesion:	199.8	psf
Post Peak Friction Angle:	19.4	degrees
Post Peak Cohesion:	0.0	psi



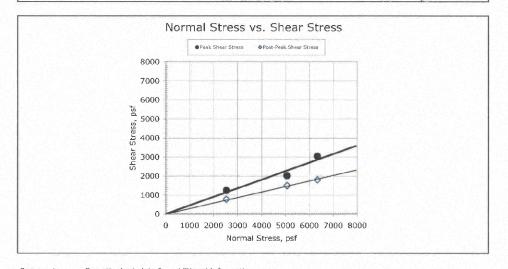
GeoTesting express

Client:	Geocomp Consulting		
Project Name:	I-90 Bridge		
Project Location:	OH		
GTX #:	9236	Tested By:	md
Test Date:	08/20/09	Checked By:	jdt
Boring ID:	B-037-1		
Sample ID:	S-24		
Depth, ft.	70-72		
Description: Preparation:	Moist, brown clay Extruded from tube, cu received moisture and		tested at the as-

Residual Shear by USACOE EM1110

Parameter	Point 1	Point 2	Point 3
Test No.	RS-7	RS-8	RS-9
Initial Moisture Content, %	35.0	33.6	30.7
Initial Dry Density, pcf	86.7	87.4	92.0
Nominal Rate of Shear Strain, inches/min	0.0003	0.0003	0.0003
Vertical Consolidation Stress, psf	2533	5067	6333
Peak Shear Stress, psf	1243	2018	3045
Post-Peak Shear Stress, psf	775	1500	1800
Final Moisture Content , %	33.5	34.7	28.5

Peak Friction Angle:	24.2	degrees	
Peak Cohesion:	11.5	psf	
Post Peak Friction Angle:	16.2	degrees	
Post Peak Cohesion:	0.0	DSI	



Comments: See attached plots for additional information

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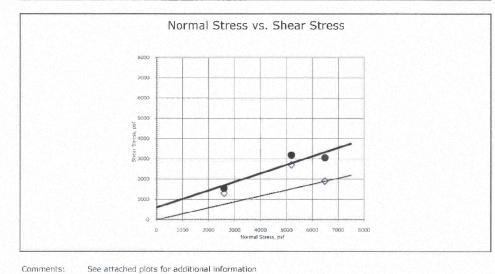
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Client:	Geocomp Consulting	j	
Project Name:	I-90 Bridge		
Project Location:	ОН		
GTX #:	9236	Tested By:	md
Test Date:	08/20/09	Checked By:	jdt
Boring ID:	B-037-1		
Sample ID:	S-25		
Depth, ft.	72-74		<u> </u>
Description: Preparation:	Moist, brown clay Extruded from tube, received moisture a	cut and trimmed and nd density.	tested at the as-

Residual Shear by USACOE EM1110

Parameter	Point 1	Point 2	Point 3
Test No.	RS-10	RS-11	RS-12
Initial Moisture Content, %	25.5	24.4	25.8
Initial Dry Density, pcf	99.4	100.0	98.0
Nominal Rate of Shear Strain, inches/min	0.0002	0.0002	0.0002
Vertical Consolidation Stress, psf	2596	5192	6490
Peak Shear Stress, psf	1555	3188	3056
Post-Peak Shear Stress, psf	1300	2700	1900
Final Moisture Content , %	24.4	25.4	24.3

	Peak Friction Angle:	22.8	degrees	
	Peak Cohesion:	600.0	psf	
	Post Peak Friction Angle:	16.3	degrees	
Lean to the second seco	Post Peak Cohesion:	0.0	psi	



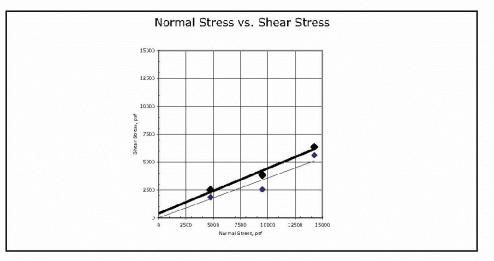


Client:	Geocomp Consulting		
Project Name:	I-90 Central Viaduct		
Project Location:	Cleveland, OH		
GTX #:	6678	Tested By:	njh/md
Test Date:	05/06-05/19/06	Checked By:	jdt
Boring ID:	B-05-03		
Sample ID:	S-29		
Depth, ft.	116.5-118.5 ft		
Description: Preparation:	Moist, dank gray day Extruded from tube, o received moisture and		tested at the as

Direct Shear and Residual Shear by ASTM D 3080

Parameter	Point 1	Point 2	Point 3
Test No.	355	RS4	RS6
Initial Moisture Content, %	26	26	24
Initial Dry Density, pcf	98.2	97.4	99.1
Nominal Rate of Shear Strain, inches/min	0.003	0.003	0.001
Vertical Consolidation Stress, psf	4748	9500	14249
Peak Shear Stress, psf	2519	3849	6367
Post-Peak Shear Stress, psf	1851	2559	5611
Final Moisture Content , %	31	25	72

Notes:	Residual values taken near the end of the final shear	Peak Friction Angle:	22.0	degrees	
step.		Peak Cohesion:	398	psf	
		Post Peak Friction Angle:	19.7	degrees	
		Pcst Peak Cohesion:	0	psf	



See attached plots for additional information

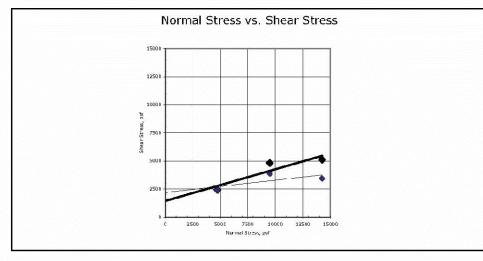


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Direct Shear and Residual Shear by ASTM D 3080

Parameter	Point 1	Point 2	Point 3
Test No.	RS1	RS2	RS3
Iritial Moisture Content, %	20	28	21
Initial Dry Density, pcf	103	99.0	94.7
Nominal Rate of Shear Strain, inches/min	0.003	0.003	0.001
Vertical Consolidation Stress, psf	4749	9500	14249
Peak Shear Stress, psf	2433	4818	5111
Post-Peak Shear Stress, psf	2400	3858	3444
Final Moisture Content , %	23	24	22

Notes: Residual values taken near the end of the final shear	Peak Friction Angle:	15.7	degrees
step.	Peak Cohesion:	1444	psf
	Post Peak Friction Angle:	6.3	degrees
	Post Peak Cohesion:	2190	psf



Comments: See attached plots for additional information

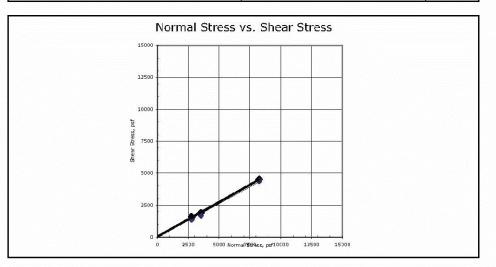


Client:	Geocomp Consulting	
Project Name:	I-90 Central Viaduct	
Project Location:	Cleveland, OH	
GIX #:	6678	Tested By: njh/md
Test Date:	05/06-05/19/06	Checked By: jdt
Boring ID:	B-C5-04	
Sample ID:	S-27	
Depth, ft.	72-74 ft.	
Description: Preparation:	Moist, very dark grayish Extruded from tube, cut a received moisture and da	and trimmed and tested at the as

Direct Shear and Residual Shear by ASTM D 3080

Parameter	Pcirt 1	Point 2	Point 3
Test No.	RS7	RS8	RS9
Iritial Moisture Content, %	22	21	22
Iritial Dry Density, pcf	1.07	107	107
Nominal Rate of Shear Strain, inches/min	0.0004	0.0004	0.0004
Vertical Consolidation Stress, psf	2752	3519	8258
Peak Shear Stress, psf	1580	1891	4519
Post-Peak Shear Stress, psf	1374	1681	4393
Final Moisture Content , %	23	23	20

Notes: Residual values taken near the end of the final shea	Peak Friction Angle:	28.4	degrees
step.	Peak Cohesion:	43	ps*
	Post Peak Friction Angle:	27.5	degrees
	Post Peak Cohesion:	0	ps ^z



See attached plots for additional information



Consolidated Undrained Direct Simple Shear Test of Cohesive Soil by ASTM D 6528

Client: Project Name:

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Geocomp Consulting I-90 Central Viaduct

GTX#: Test Date: 6678

05/07/06

Project Location:

Cleveland, OH

Boring ID: Sample ID: B-05-03 S-29 116.5-118.5 ft

Visual Description:

Moist, dark gray clay

Test Equipment:

Top and bottom box (circular) = 2.62 in diameter. Load cells and LVDT's connected to data acquisition system for shear force, normal load, horizontal and

vertical displacement; surface area = 5.39 in², soil height = 1 inch

Test Condition:

inundated

Sample Type and Preparation:

Extruded from tube, cut, trimmed and placed into apparatus at as-received density and moisture content.

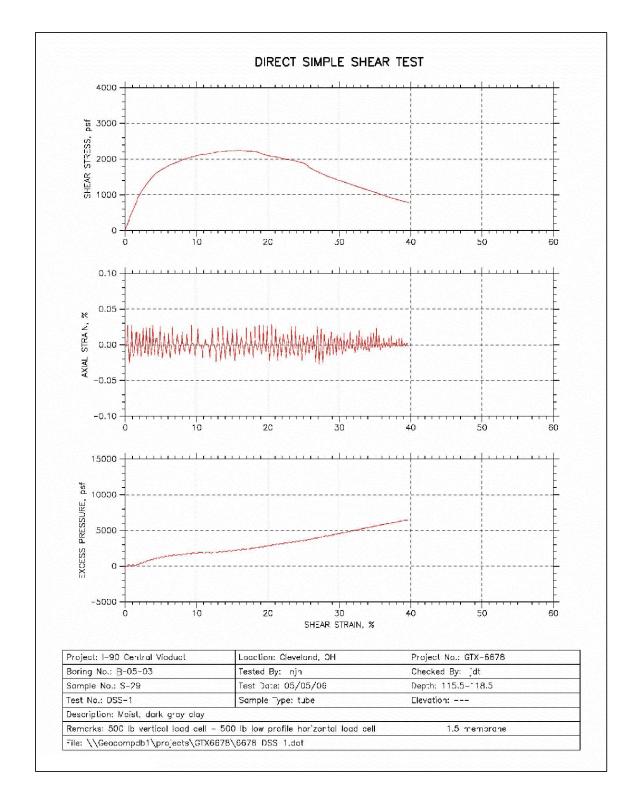
Parameter	Point 1	Point 2	Point 3	Point 4	Point 5
Test No.	DSS-1				
Initial Moisture Content, %	29				
Initial Dry Density, pcf	96.3	- Walay - Wala			San - Galar -
Nominal Rate of Shear Strain, %/min	0.0008				
Vertical Consolidation Stress, psf	9500				
Final Moisture Content, %	28			3	
Measured Peak Shear Stress, psf	2240				
Shear Strain at Peak Shear Stress, %	15.6				
Membrane Correction, psf	73				
S/ o'w	0.23	**************************************			

Comments: Tested By: njh

Checked By: jdt

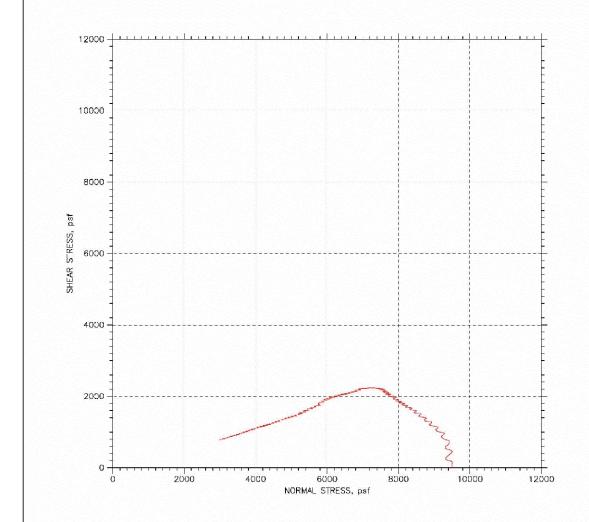
These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin,

sampling procedure or intended use of the material.





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	Project No.: GTX-6678 Checked By: jdt	
Tested By: njn	Checked By: [dt	
Test Date: 05/05/06	Depth: 115.5-118.5	
Sample Type: tube	Elevation:	
500 lb low profile hor zontal load cell	1.5 membrane	
	Test Date: 05/05/06 Sample Type: tube	

Consolidated Undrained Direct Simple Shear Test of Cohesive Soil by ASTM D 6528

Client: Project Name:

Boring ID:

Sample ID:

Test Equipment:

Depth, ft:

Geocomp Consulting I-90 Central Viaduct

GTX#: Test Date:

6678 05/08/06

Cleveland, OH Project Location:

B-05-03 S-30 118.5-120.3 ft

Visual Description: Moist, dark gray clay

Top and bottom box (circular) = 2.62 in diameter. Load cells and LVDT's connected to data acquisition system for shear force, normal load, horizontal and

vertical displacement; surface area = 5.39 in², soil height = 1 inch

Test Condition: inundated

Sample Type and Preparation:

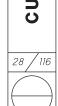
Extruded from tube, cut, trimmed and placed into apparatus at as-received density and moisture content.

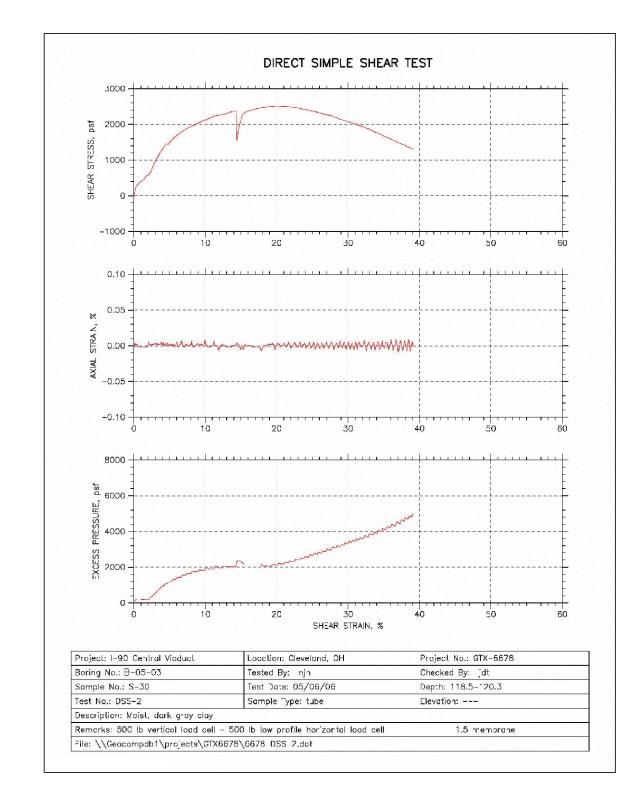
Parameter	Point 1	Point 2	Point 3	Point 4	Point 5
Test No.	DSS-2				
Initial Moisture Content, %	26				
Initial Dry Density, pcf	99.3				NAP-08182-08182-08184-848
Nominal Rate of Shear Strain, %/min	8000.0				
Vertical Consolidation Stress, psf	9500				
Final Moisture Content, %	29				
Measured Peak Shear Stress, psf	2514				
Shear Strain at Peak Shear Stress, %	20.0				
Membrane Correction, psf	78				
S/ o'm	0.26	¥			

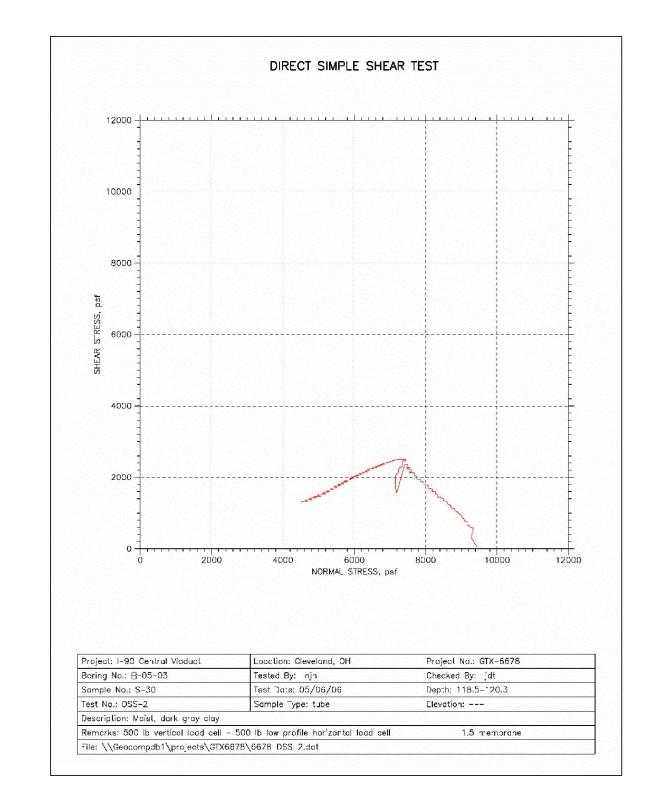
Comments: Tested By: njh

Checked By: jdt

These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin, sampling procedure or intended use of the material.







Consolidated Undrained Direct Simple Shear Test of Cohesive Soil by ASTM D 6528

Client: Project Name: Geocomp Consulting I-90 Central Viaduct

GTX#: Test Date:

6678 05/30/06

Project Location:

Cleveland, OH

Boring ID: B-05-04 Sample ID: S-27 72-74 ft

Visual Description:

Moist, very dark grayish brown day

Test Equipment:

Top and bottom box (circular) = 2.62 in diameter. Load cells and LVDT's connected to data acquisition system for shear force, normal load, horizontal and

vertical displacement; surface area = 5.39 in², soil height = 1 inch

Test Condition:

inundated

Sample Type and Preparation:

Extruded from tube, cut, trimmed and placed into apparatus at as-received density and moisture content.

Parameter	Point 1	Point 2	Point 3	Point 4	Point 5
Test No.	DSS-3				
Initial Moisture Content, %	22				
Initial Dry Density, pcf	107				100 - CODA - COD
Nominal Rate of Shear Strain, %/min	0.0008				
Vertical Consolidation Stress, psf	5506				
Final Moisture Content, %	21			3	
Measured Peak Shear Stress, psf	2092				
Shear Strain at Peak Shear Stress, %	10.7				
Membrane Correction, psf	64				
S/ o'w	0.37				

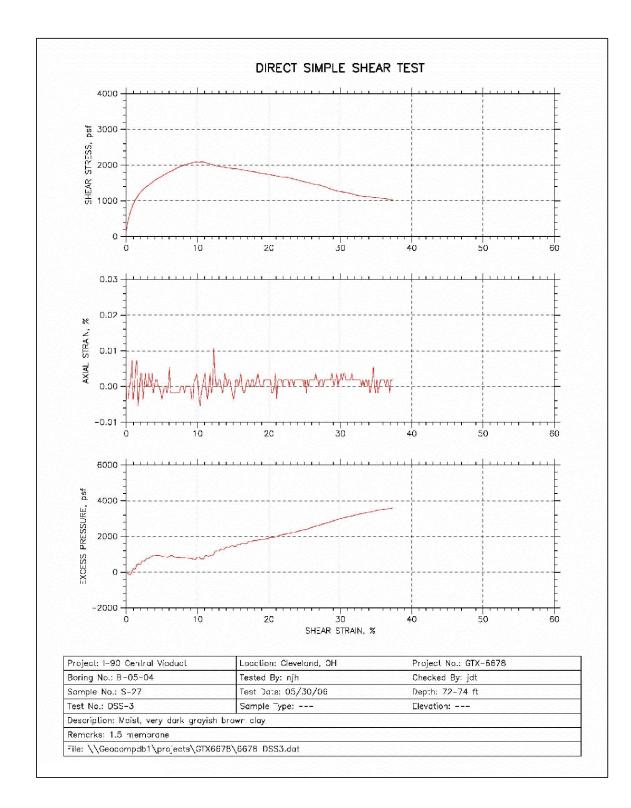
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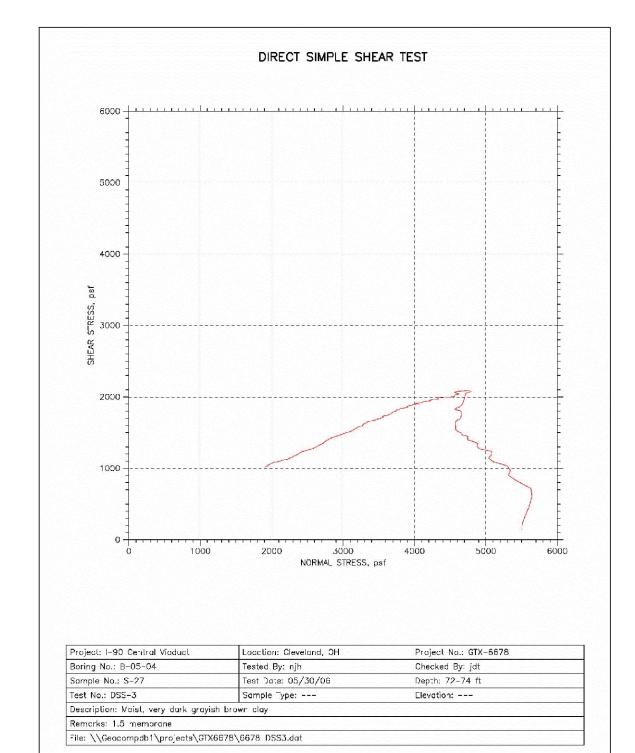
Comments: Tested By: njh

Checked By: jdt

These results apply only to the sample tested for the specific test conditions. The test procedures employed follow accepted industry practice and the indicated test method. GeoTesting Express has no specific knowledge as to conditioning, origin,

sampling procedure or intended use of the material.

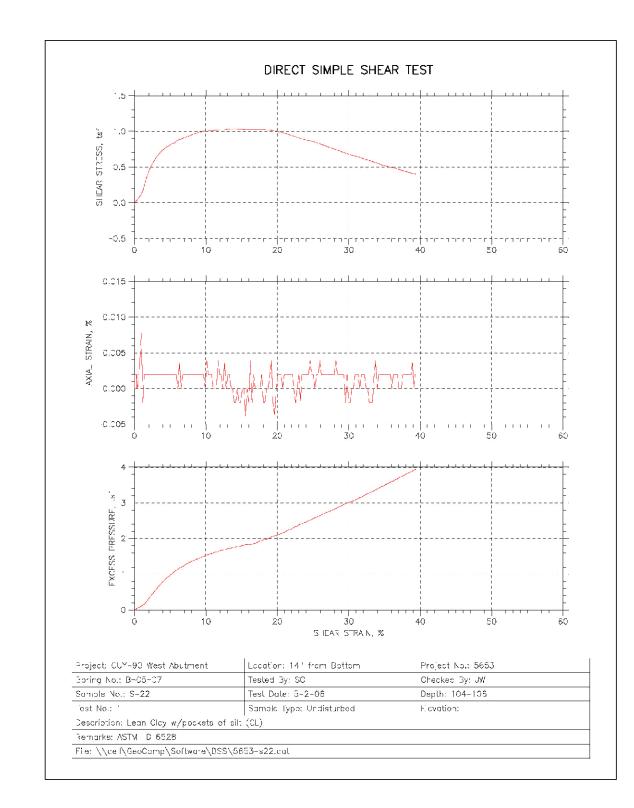


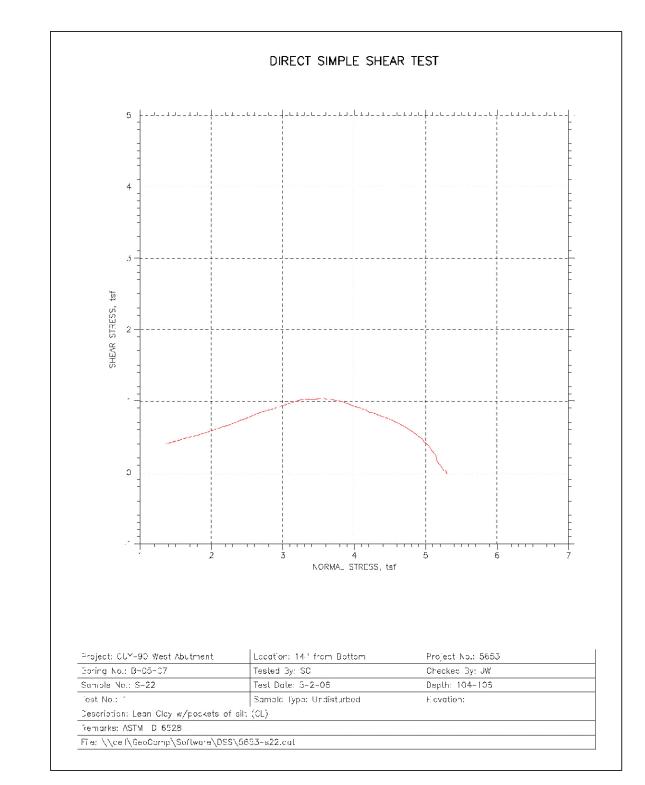


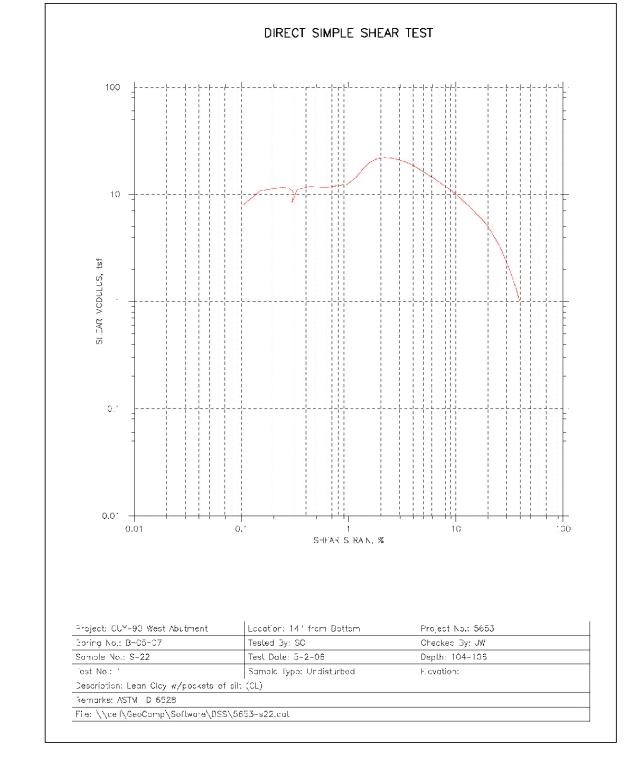
Project: Client:	CUY-90 West Abutment BBC&M Engineering, Inc.										53 2006
	DBOWN Engineerii	19, 1110.			1-00-1	D-1 01			Date: 5/9/2006 Additional Testing		
				Initial Density	Before Shear Density	Normal Load	Additional		al Testing		
Test #	Boring	Sample #	Depth (ft)	WC%	(PCF)	(PCF)	(TSF)	Gs	LL	PL	PI
1	B-05-07	S-22	104-106	34.4	88.5	99.0	5.3 tsf		40.1	22.5	17.6
2	B-05-02	S-14	44-46	28.8	94.3	99.9	2.8 tsf	-	37.7	21.4	16.3
3	B-05-03	S-8	32-33.5	25.9	100.8	107.0	1.95 tsf		34.8	18.8	16.0
4	B-05-02	S-32	122-124	21.2	103.2	110.1	5.3 tsf		30.3	18.8	11.5
					5 oil						

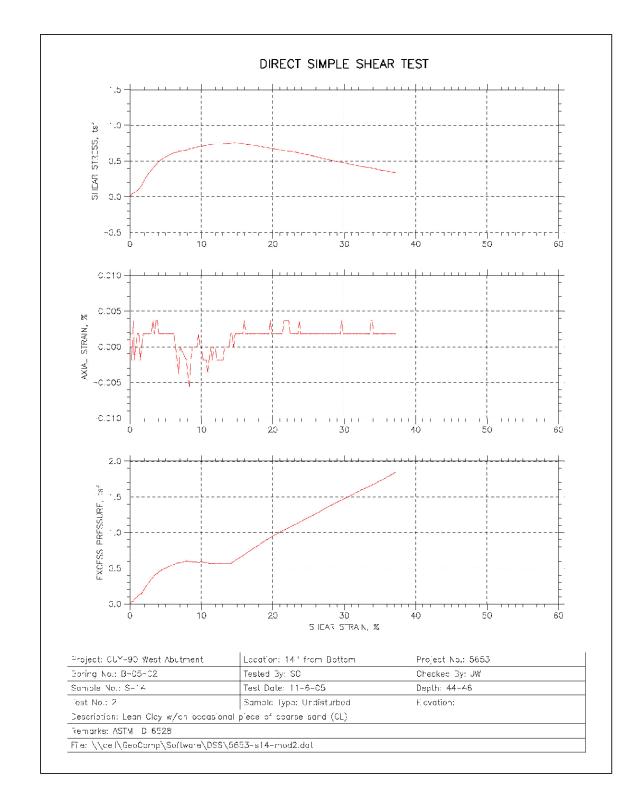










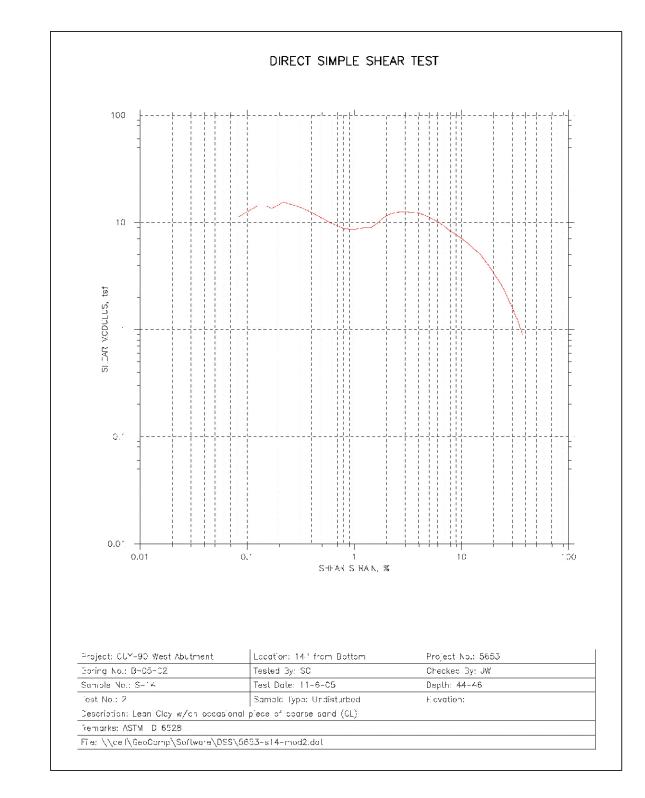


DATA

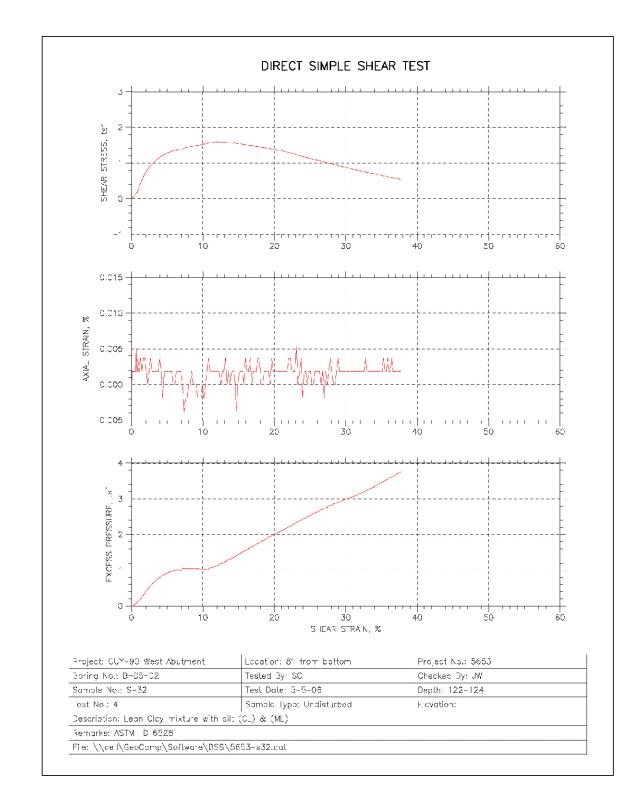
ţş SHEAR -0.5 1.0 NORMAL STRESS, tef Location: 14' from Bottom Project: CUY-90 West Abutment Project No.: 5653 Tested 3y: SC Checket By: JW Baring No.: B-05-02 Test Dale: 11-6-05 Depth: 44-46 Sample No.: S-14 'ost No.: 2 Sample Typo: Undisturbed Ecvation: Description: Lean Clay w/ch occasional piece of coarse sand (CL) Remarks: ASTM D 6528 File: \\cel\GeoComp\Software\DSS\5653-814-mod2.dat

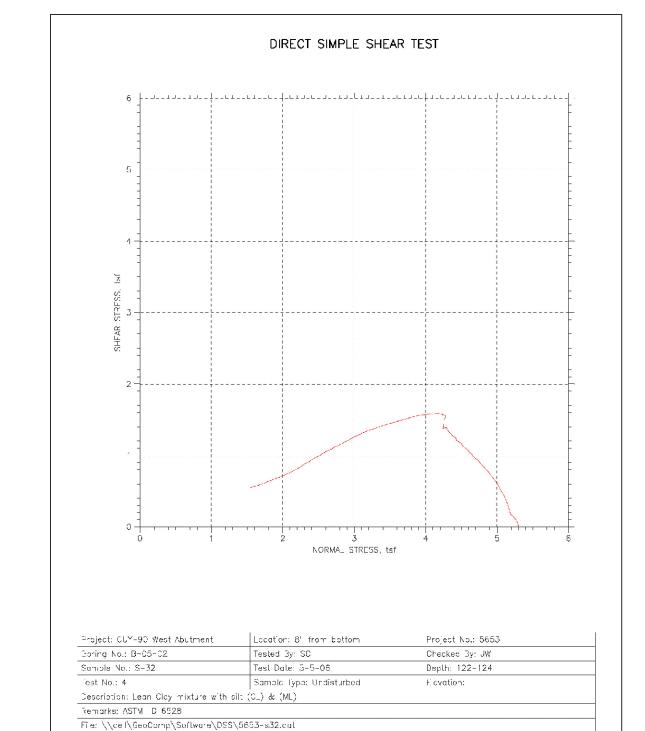
DIRECT SIMPLE SHEAR TEST

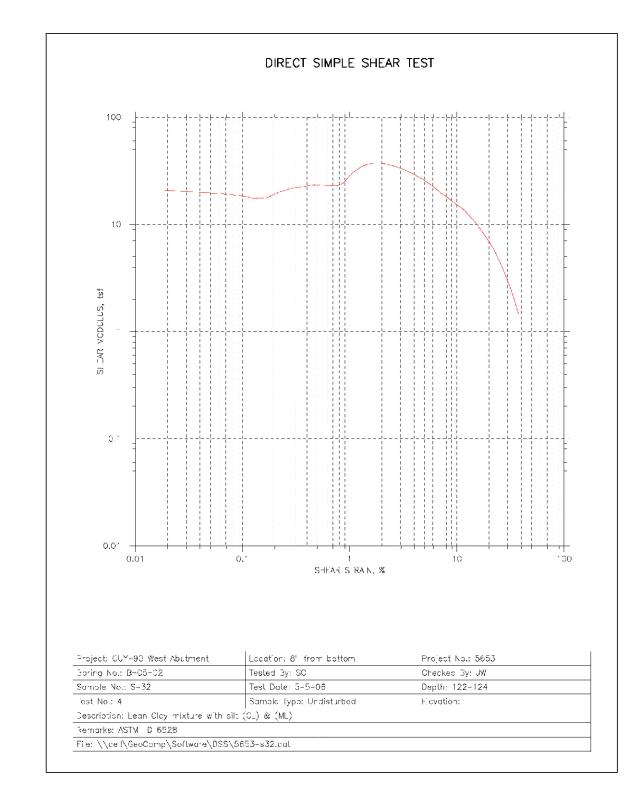
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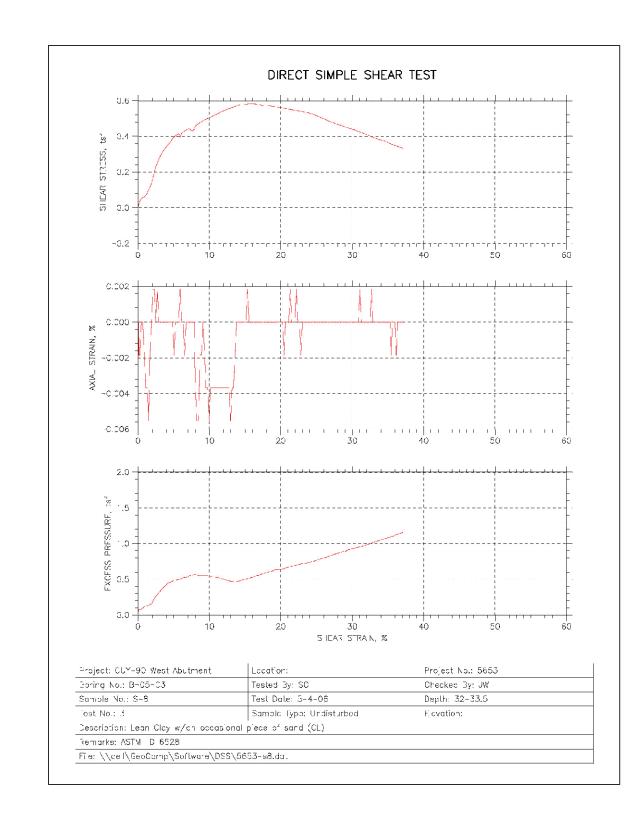












DIRECT SIMPLE SHEAR TEST ţş SHEAR 0.5 0.0 0.5 | 0.5 1.0 NORMAL STRESS, tef Project: CUY-90 West Abutment Locations Project No.: 5653 Tested 3y: SC Checket By: JW Baring No.: B-05-03 Tasl Dale: 5-4-08 Depth: 32-33.5 Sample No.: S-8 Sample Typo: Undisturbed ost No.: 5 Ecvation: Description: Lean Clay w/ch occasional piece of sand (CL) Remarks: ASTM D 6528 File: \\cell\GeoCamp\Software\DSS\5653-s8.da.

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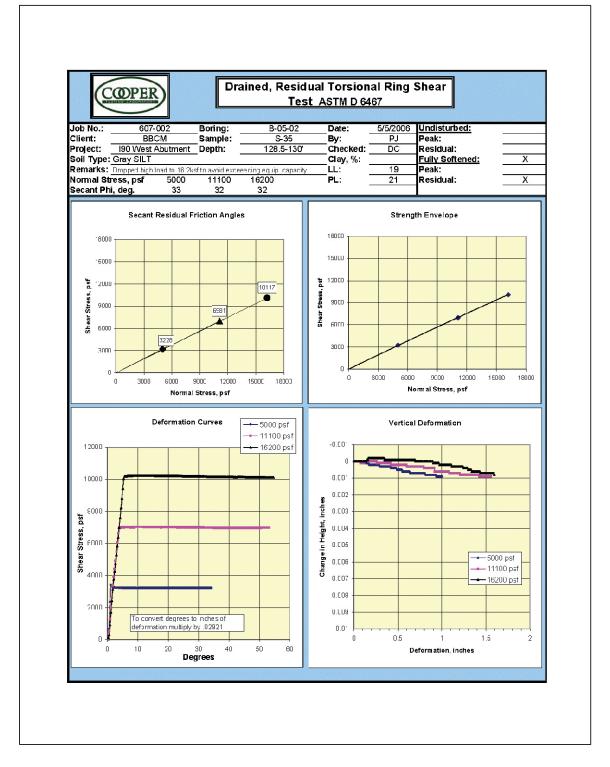
15 Degrees 25

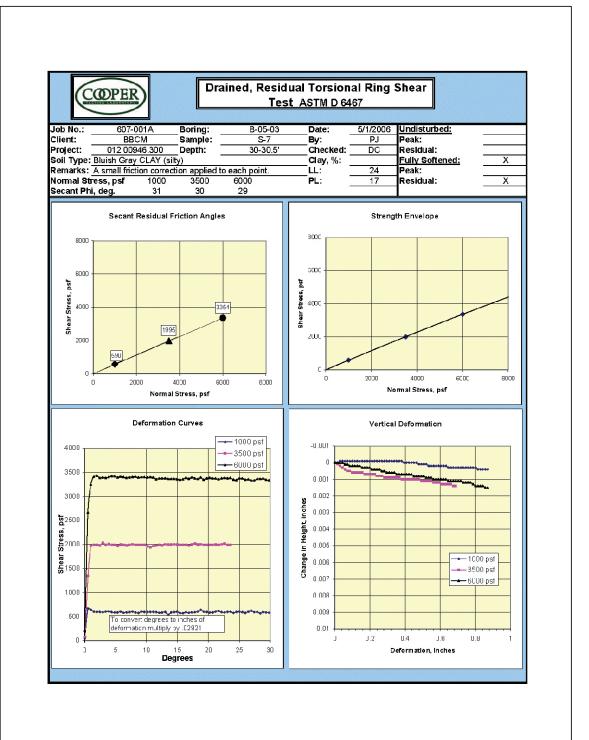
Deformation, inches

20

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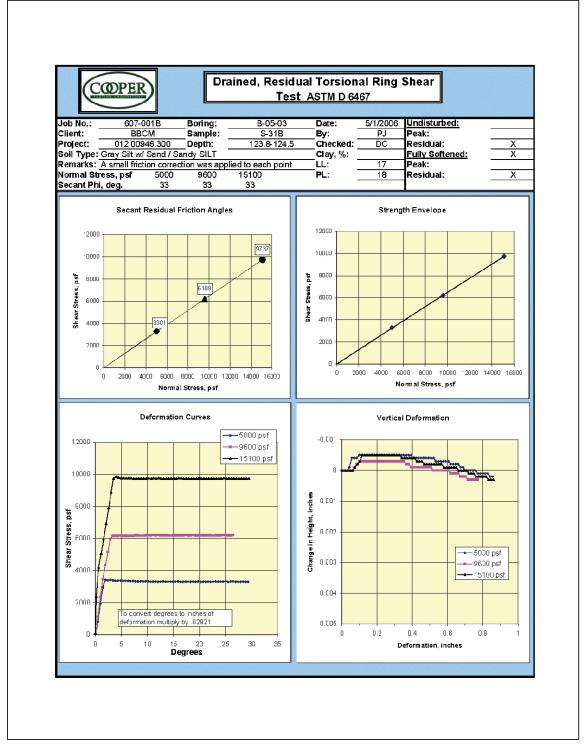




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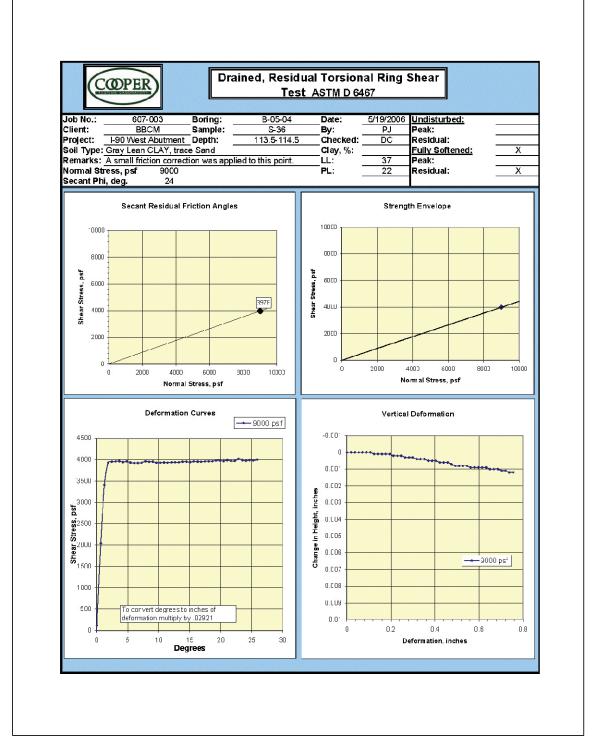
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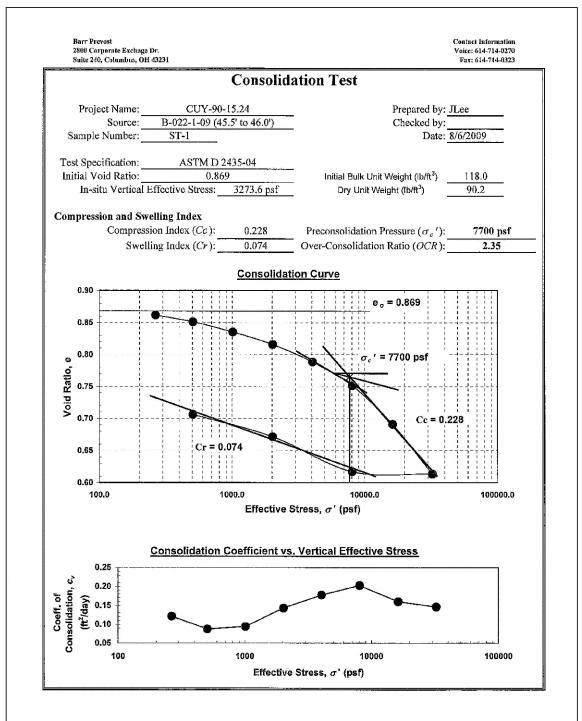


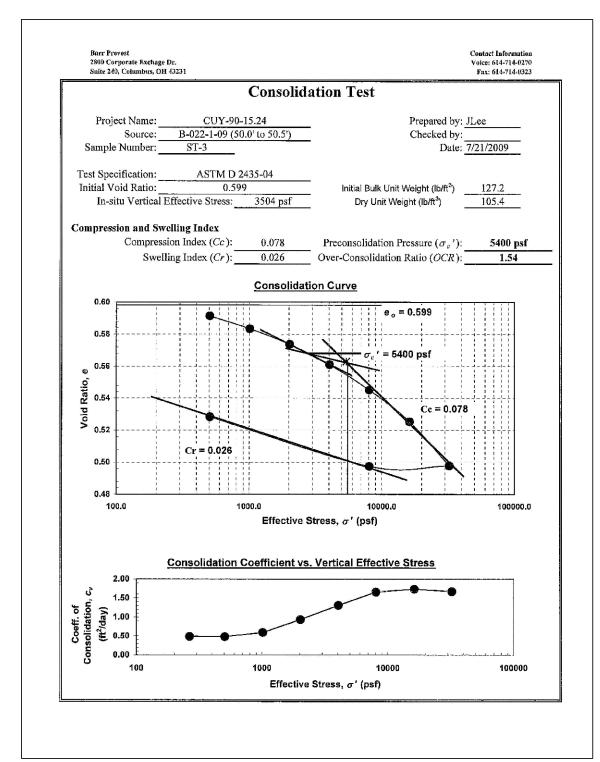
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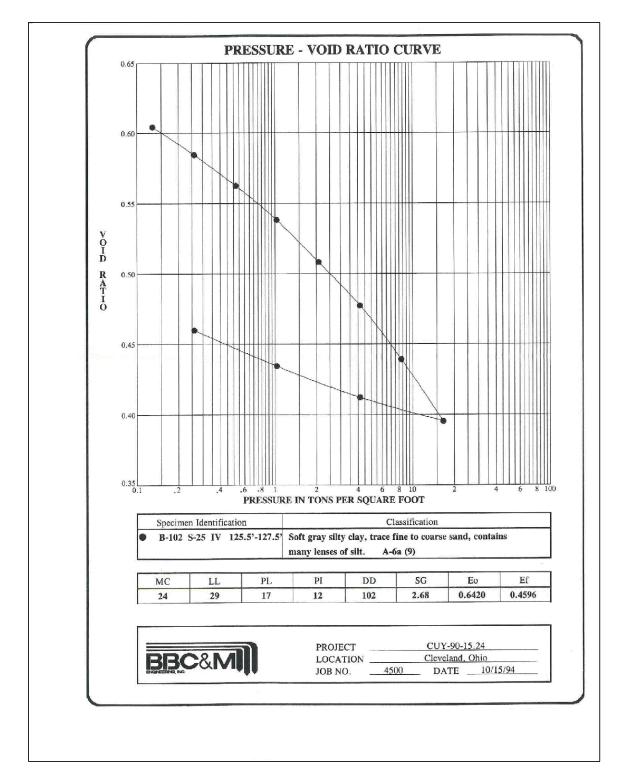


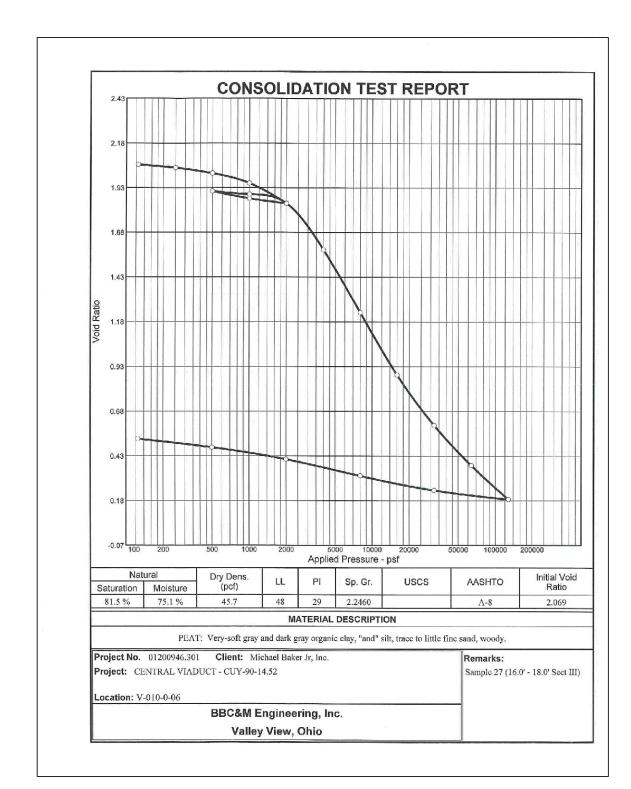


Effective Stress, σ' (psf)

100000

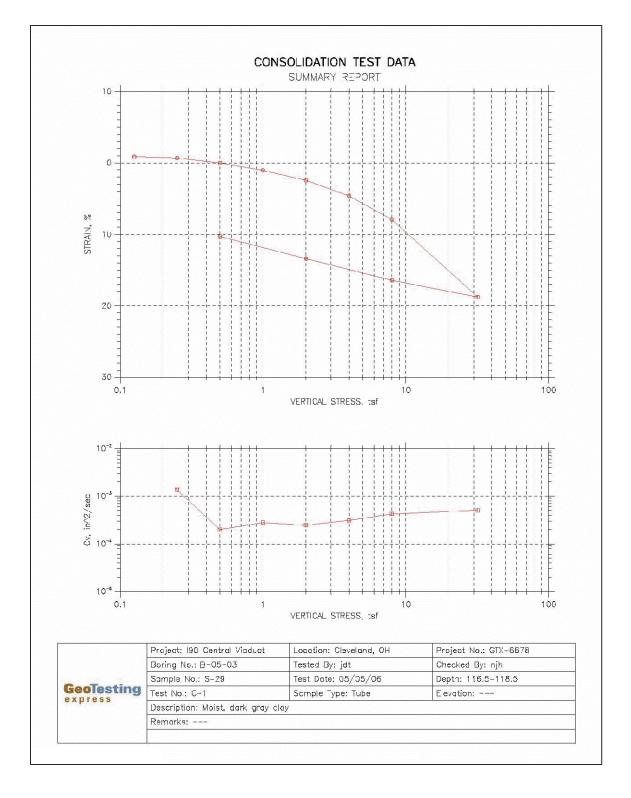
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CONSOLIDATION TEST DATA

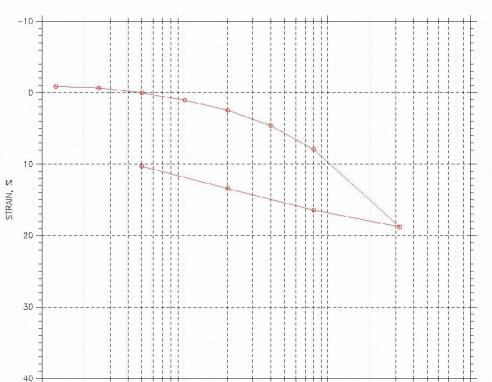
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SUMMARY REPORT



Before	Test	After	Test

Overburden Pressure: Preconsolidation Pressure:		Water Content, %	28.73 95.81	22.08 106.8		
		Dry Unit Weight, pcf				
Compression	npression Index: 2.54639e-313		Scturation, %	99.78	99,99	
Diameter: 2	2.5 in	Height: 1 in		Voic Ratio	0.79	0.61
LL: 35	PL: 18	Pl: 17	GS: 2.75			

VERTICAL STRESS, taf

GeoTestin express
GeoTestin
express

0.1

Project: 190 Central Viaduct	Location: Claveland, OH	Project No.: GTX-6678
Boring No.: B-05-03	Tested By: jdt	Checked By: njh
Sample No.: S-29	Test Date: 05/35/06	Depth: 116.5-118.5
Test No.: C-1	Scmple Type: Tube	E evation:
Description: Moist, dark gray	clay	
Remarks:		

10

CONSOLIDATION		

Project: ISC Central Viaduct Boring No.: B-05-03 Sample No.: S-29 Test No.: C-1 Location: Cloveland, OE Postod By: jdt Dest Date: 05/05/06 Eample Dype: Dabe

Soil Description: Moist, dank gray clay Bomarks: ---

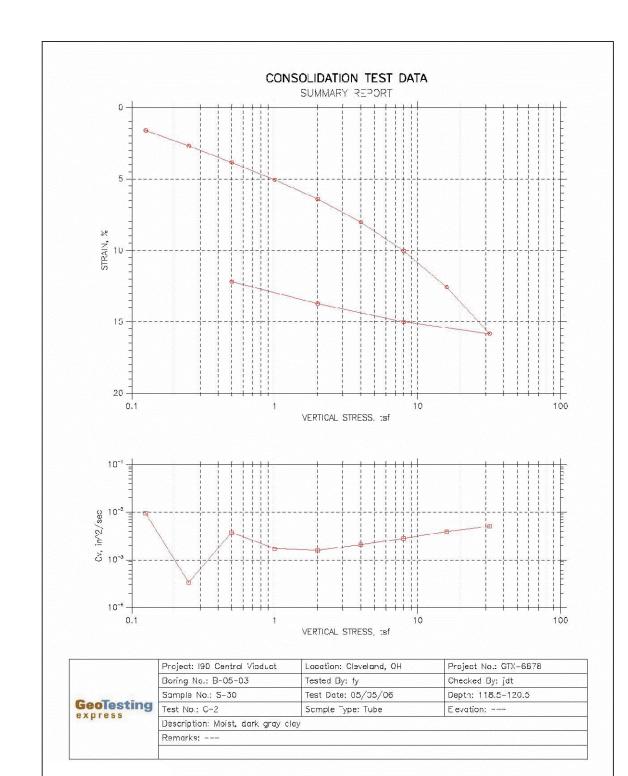
Measured Specific Gravity: 2.75 Instial Void Ratio: 0.79 Final Void Ratio: 0.61

Liquid Limit: 35 Plastic Limit: 18 Plasticity Incex: 17 Initial Height: 1.00 in Specimen Diameter: 2.50 in

Project No.: GCM-6678 Checked By: hih Depth: 118.5-118.5 Elevation: ---

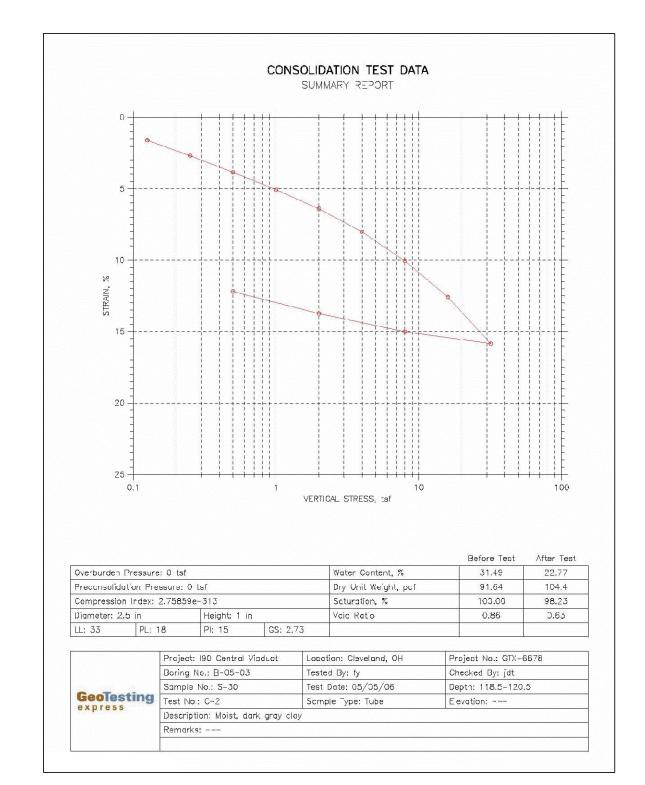
Before Consolidation Trimoings Specimen-Ring After Consolidation Specimen-Ring Trummings Container ID dodge9 30912 Wt. Container + Wet Soil, gm Wt. Container + Dry Soil, gm Wt. Container, gm Wt. Dry Soil, gm Water Content, % Void Ratio Degree of Saturation, % Dry Unit Weight, pof 370 331,53 201,08 123,45 28,73 0,78 99,78 95,868 93.18 77.71 8.27 69.47 22.23 361.79 334.53 211.08 123.45 22.08 0.61 93.93 108.82 157.13 130.18 22.08 22.08

CUY



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Project: ISC Central Viadnet Bering No.: B-05-00 Sample No.: S-30 Test No.: C-2

Location: Cloveland, OE Postod By: fy Deat Date: 05/05/06 Eample Type: Tabe

Project No.: GTX-6878 Checked By: jdt Depth: 118.5-120.5 Elevation: ---

So: | Description: Moist, dark gray c ay Remarks: ---

Measured Specific Gravity: 2.73 Initial Void Ratio: 0.88 Final Void Ratio: 6.83

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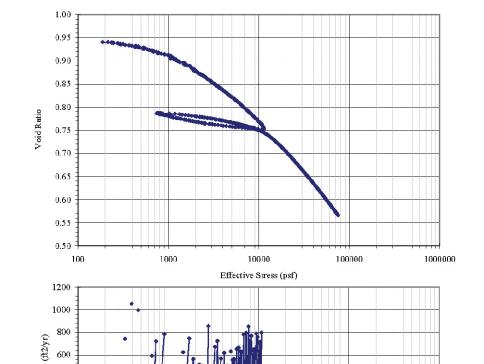
Liq..d Limit: 33 Plastic Limit: 18 Plasticity Incex: 15

Inital Height: 1.00 in Specimen Diameter: 2.50 in

After Consolidation

Before C	ensolidation	After Consolidation		
Tr:mm:ngs	Specimen=Ring	Specine=∃irg	Trimmings	
M = W	DALE		dodge S	
147.11	371.3	3#1.E	157.16	
117.33	334.62	934.62	129,53	
8.26	216.53	216.53	8,17	
109.07	118.09	118.09	121.36	
27.30	31.49	22.77	22.77	
	0.86	0.63		
	100.00	93.23		
	81.844	104.38		
	Trimbings x.x 147.1 127.33 3.26 108.67 27.30	#1% RING 147.11 371.4 117.33 331.62 8.26 27.53 109.67 118.69 27.30 31.49 6.86 100.60	### RING ### RING 147.11	

CONSTANT RATE OF STRAIN CONSOLIDATION



	AASHTO						
Saturation	Moisture	γ _D (p cf)	\mathbf{e}_0	LL	PL	PI	Classification
95.1%	32.7%	88.7	0.959	36	26	10.	A-4b
Sail Descript	ion:	SILT: Medi	um-stiff to	stiff gray and d	lark gray s	ilt, some cla	y, slightly organic.
Project No.	012 00946.3	01	Boring	V-009-0-06			
Project	CUY-90-14.	52	Sample	28		В	BCM
Client	Michael Bal	or Ir Inc	Depth	28.0' - 30.0'		SOLUT	ONS TO BUILD ON

10000

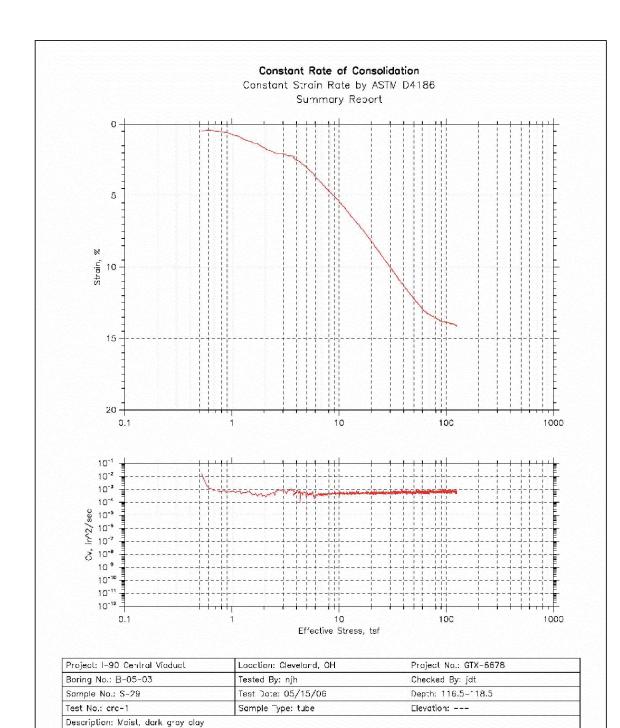
1000

100000

1000000

400 200

100



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Remcrks:

CRC TEST DATA

Project: I-90 Central Viaduct Boring No.: R-05-03 Sample No.: S-29 Test No.: cro-1 Project No.: GTM-8678 Checked By: jdt Depth: 118.5-118.5 Elevation: ---Location: Cleveland, OH Tested By: ngh Test Date: 03/13/08 Sample Type: tube

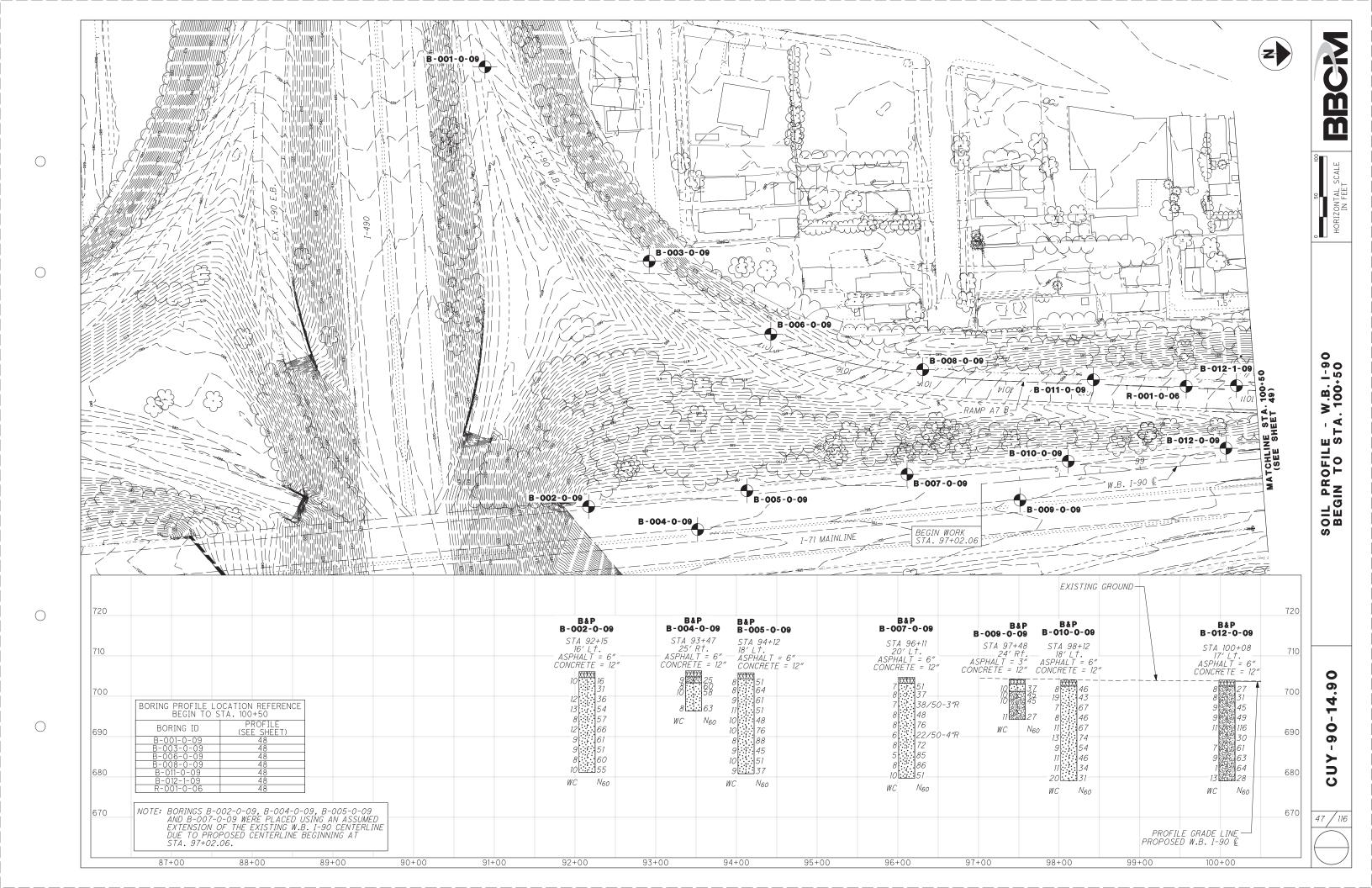
Soil Description: Moist, dark gray clay Remarks:

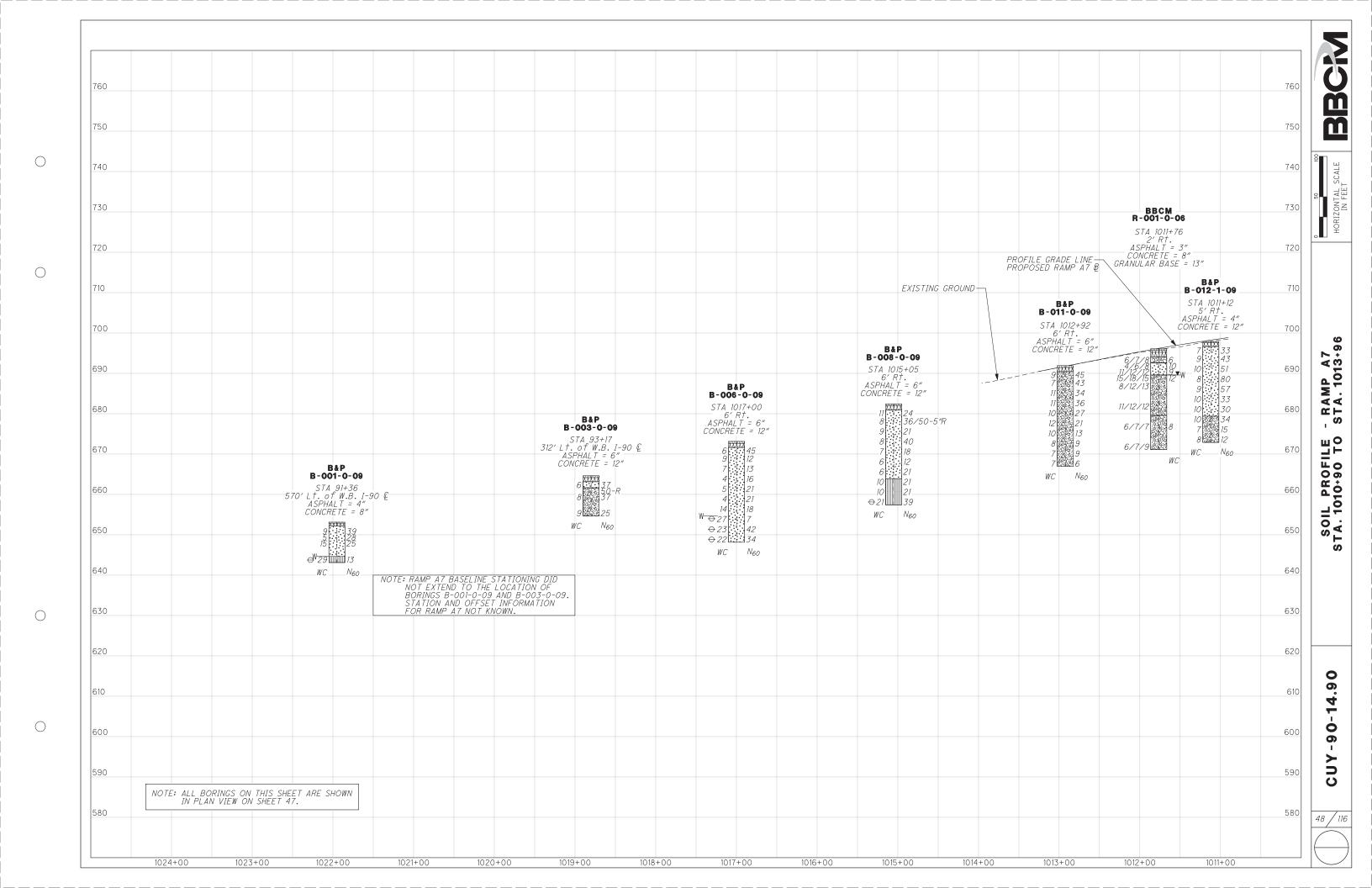
Heasured Specific Gravity: 2.75 Initial Void Ratio: 0.53 Linal Void Ratio: 0.34

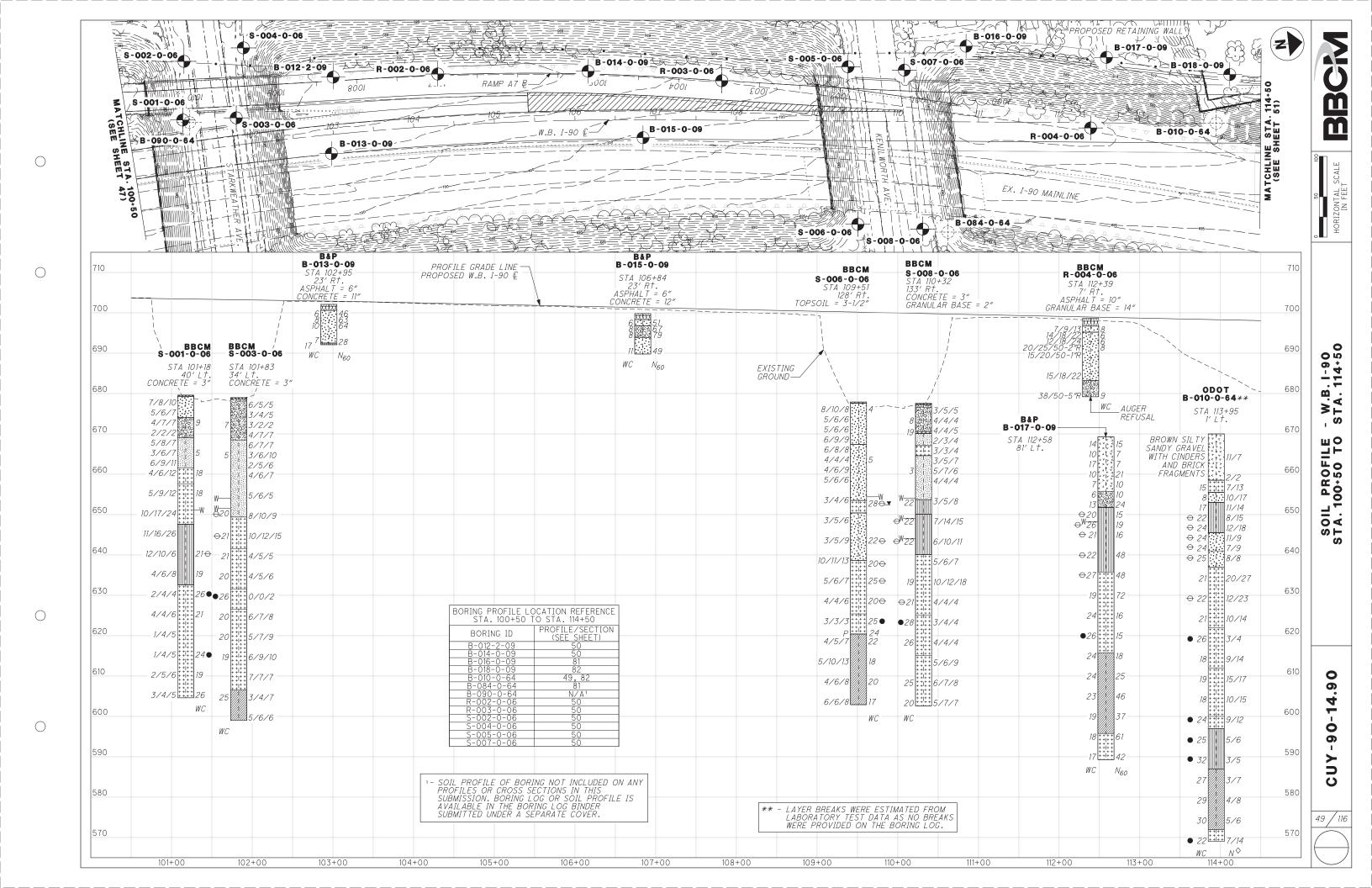
Liquid Limit: 35 Plastic Limit: 18 Plasticity Index: 17 Initial Height: 1.00 in Specimen Diameter: 2.80 in

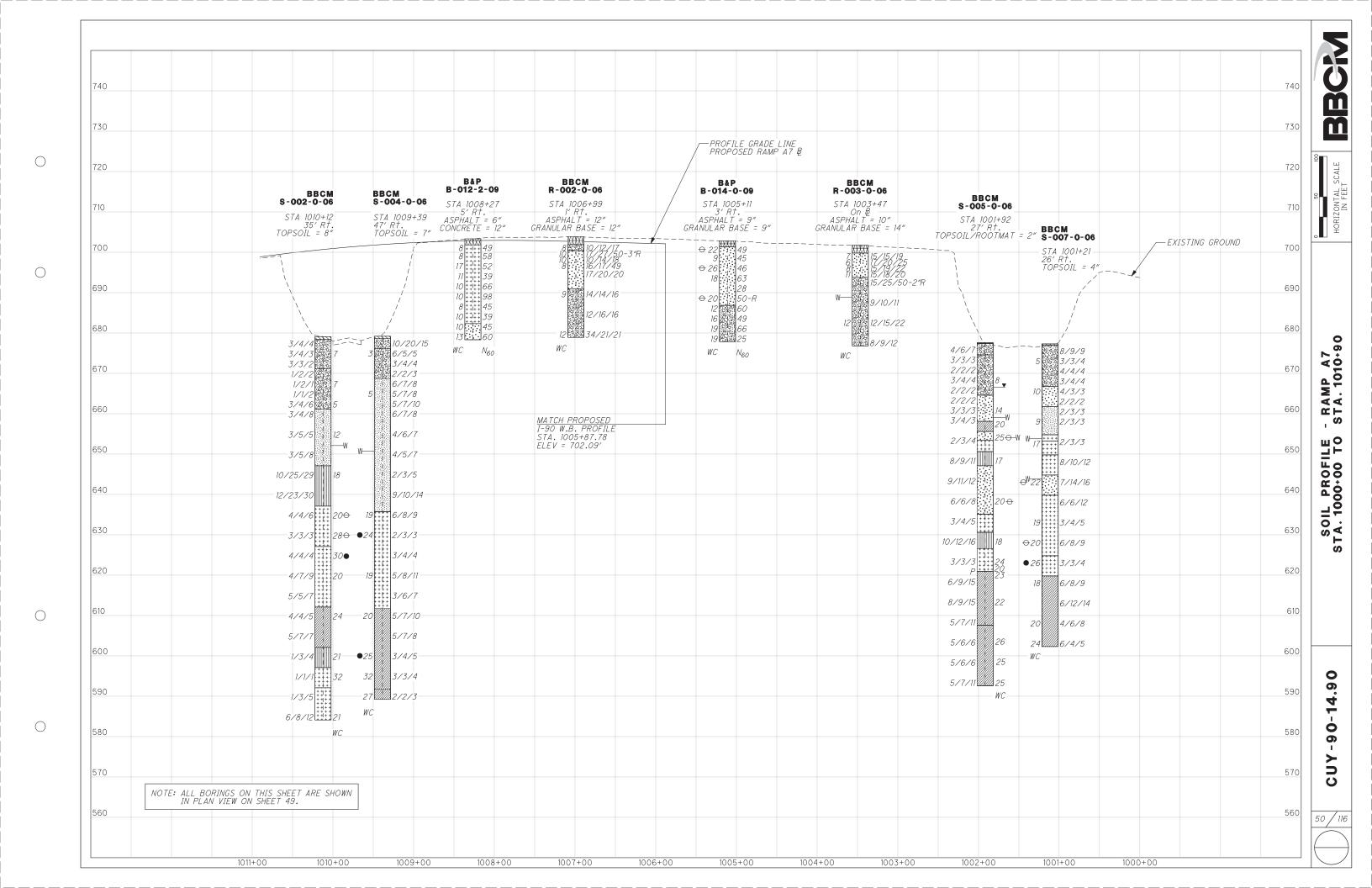
	Before Compoindation		After Comeo	`idatic~
	Primming∃	Specimen=Ring	Specime~=Ring	Trimmings
Container ID	sweet	BING		1355
Wt. Container Wet Soil, qm	135.17	383.65	378.55	168.61
Mt. Container + Dry Soil, gm	111.25	360.47	HaC.47	1.0.77
Mt. Container, gr	7.98	215.07	218.07	8.32
Wt. Dry Scil, gr	100.27	144.4	*44.4	142./5
Water Content, %	23.16	15.99	12.52	12.52
Void Ratio		0.53	C.34	
Degree of Saturation, %		82.64	100.00	
Ery Unit Meight, pdf		7.Co	27.7	

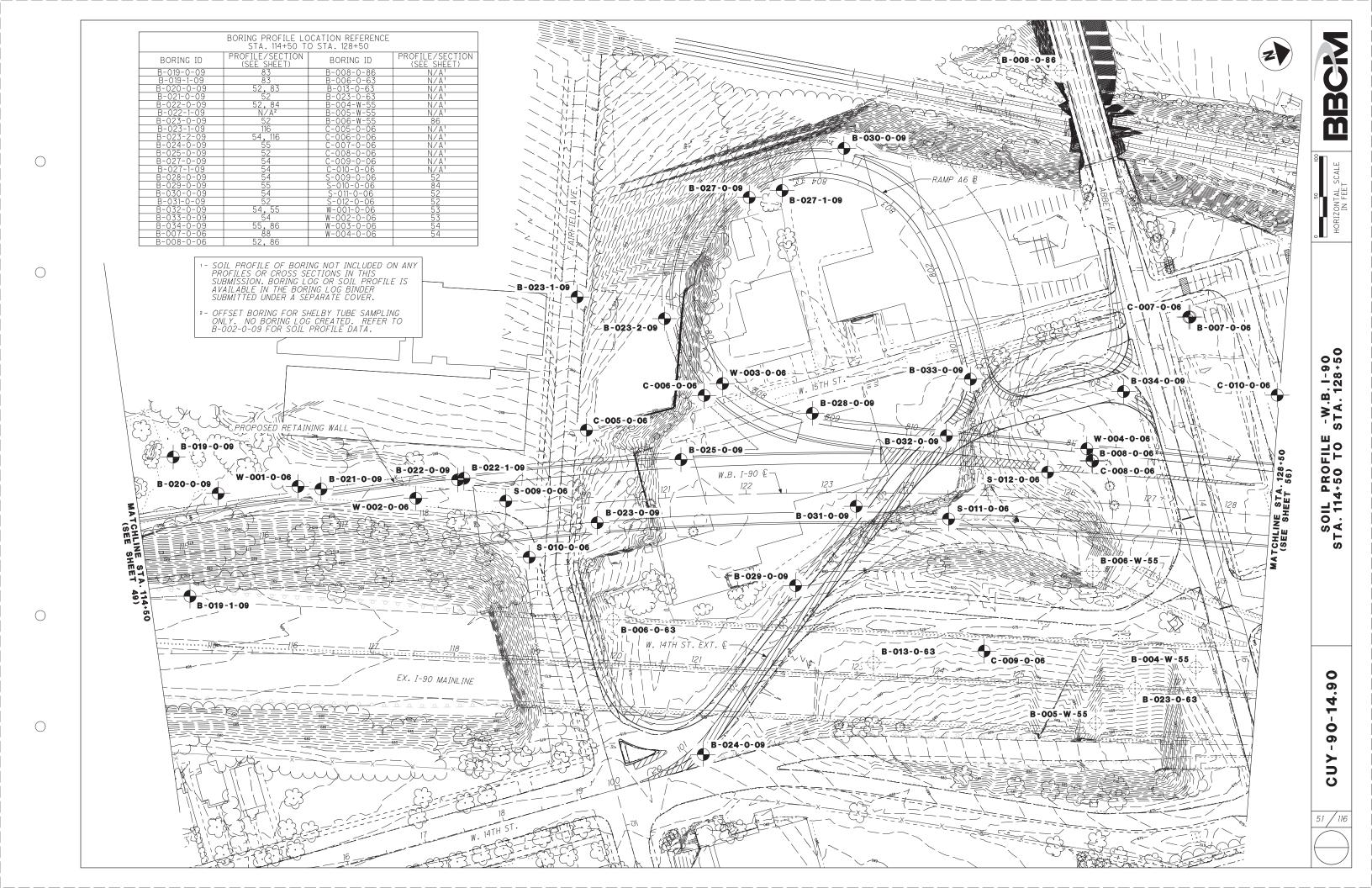


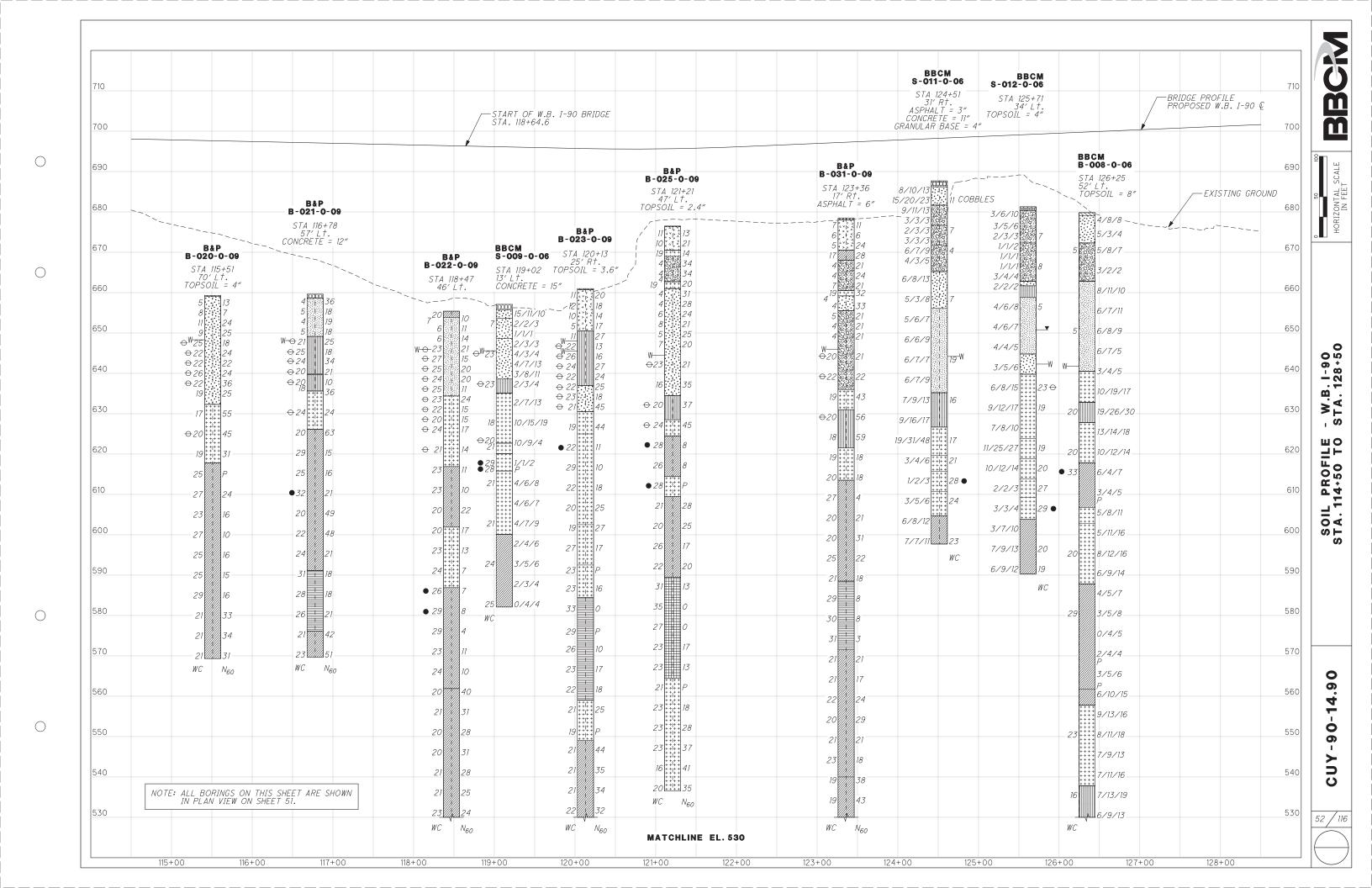


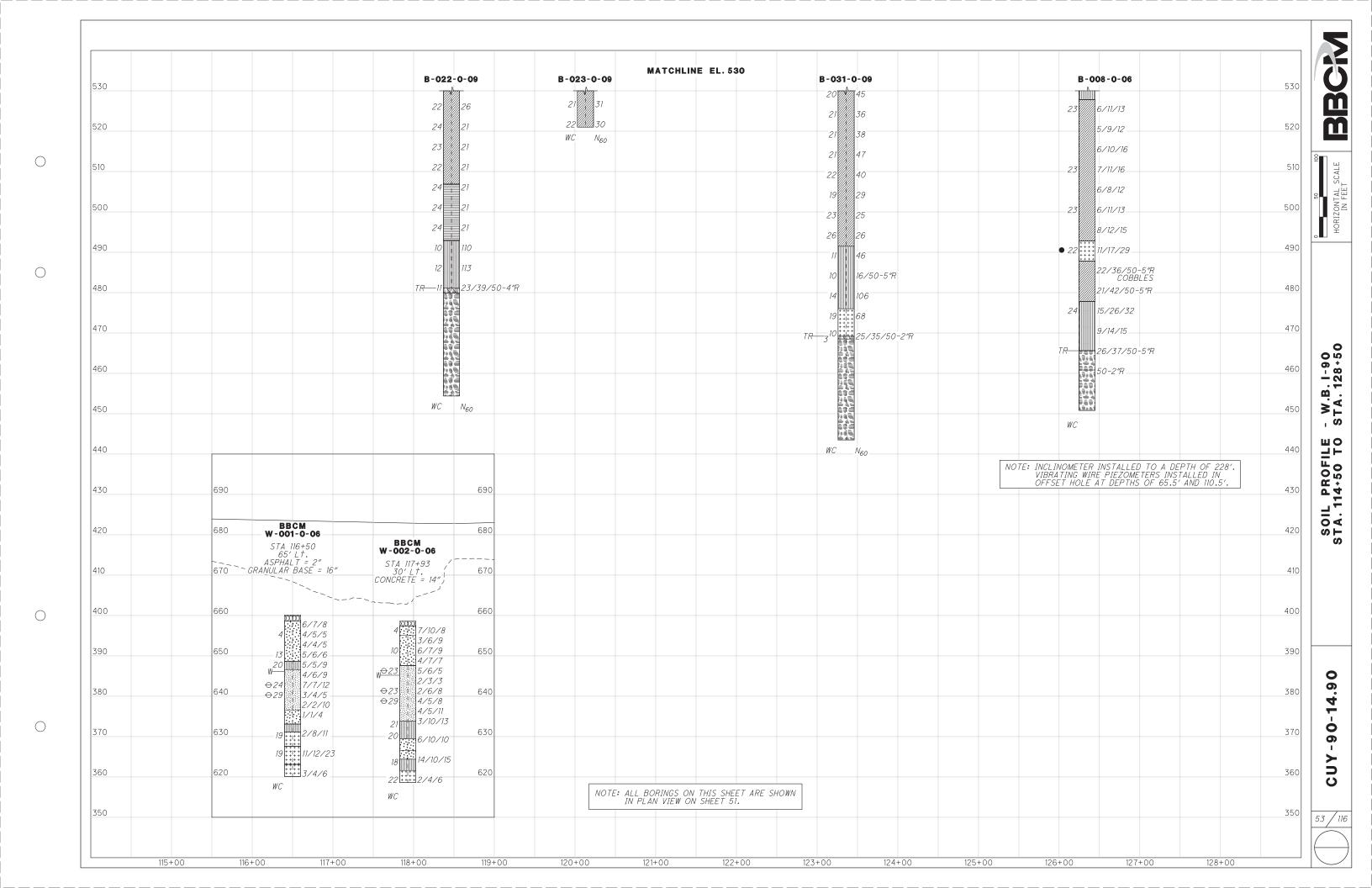


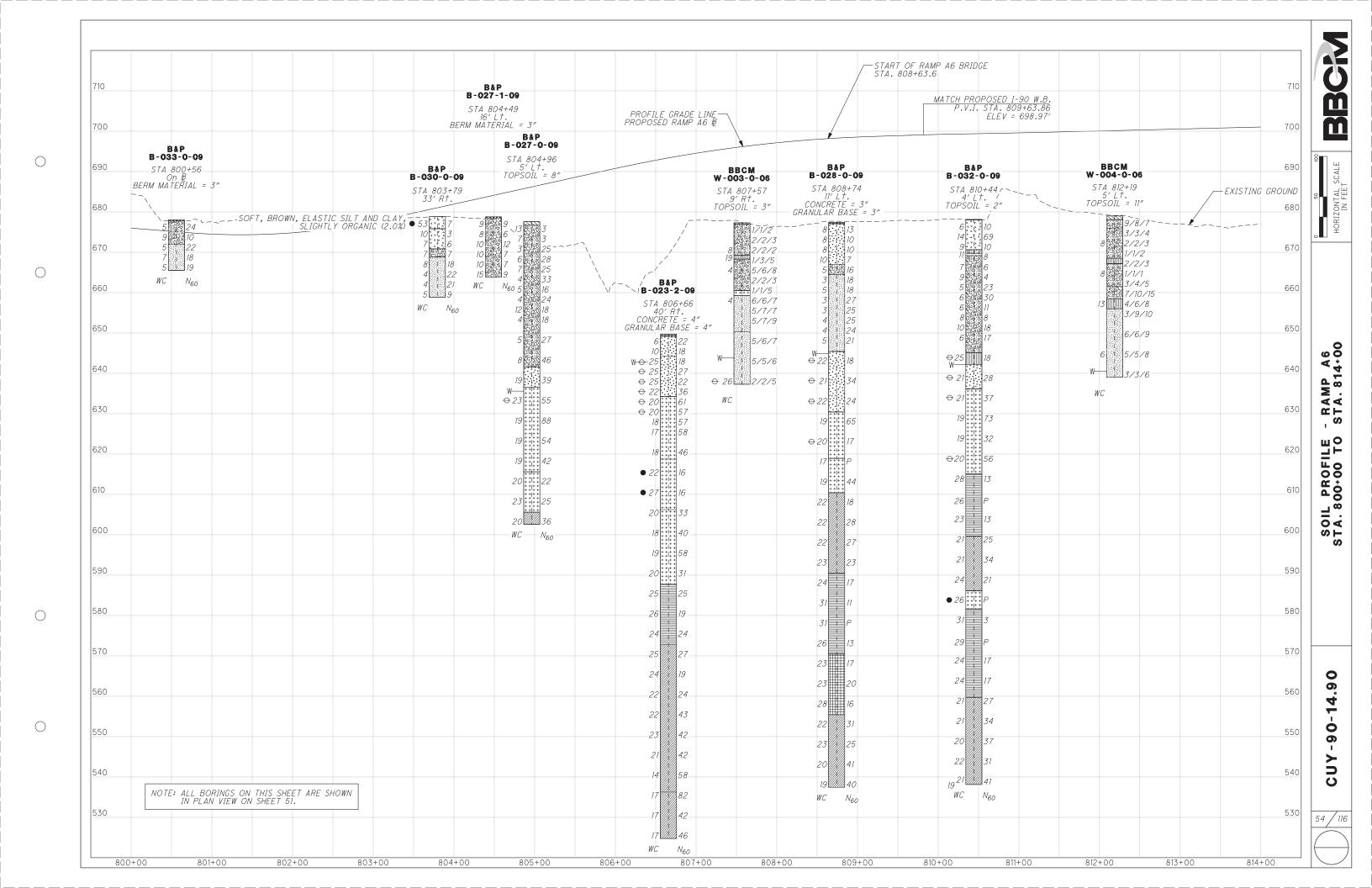


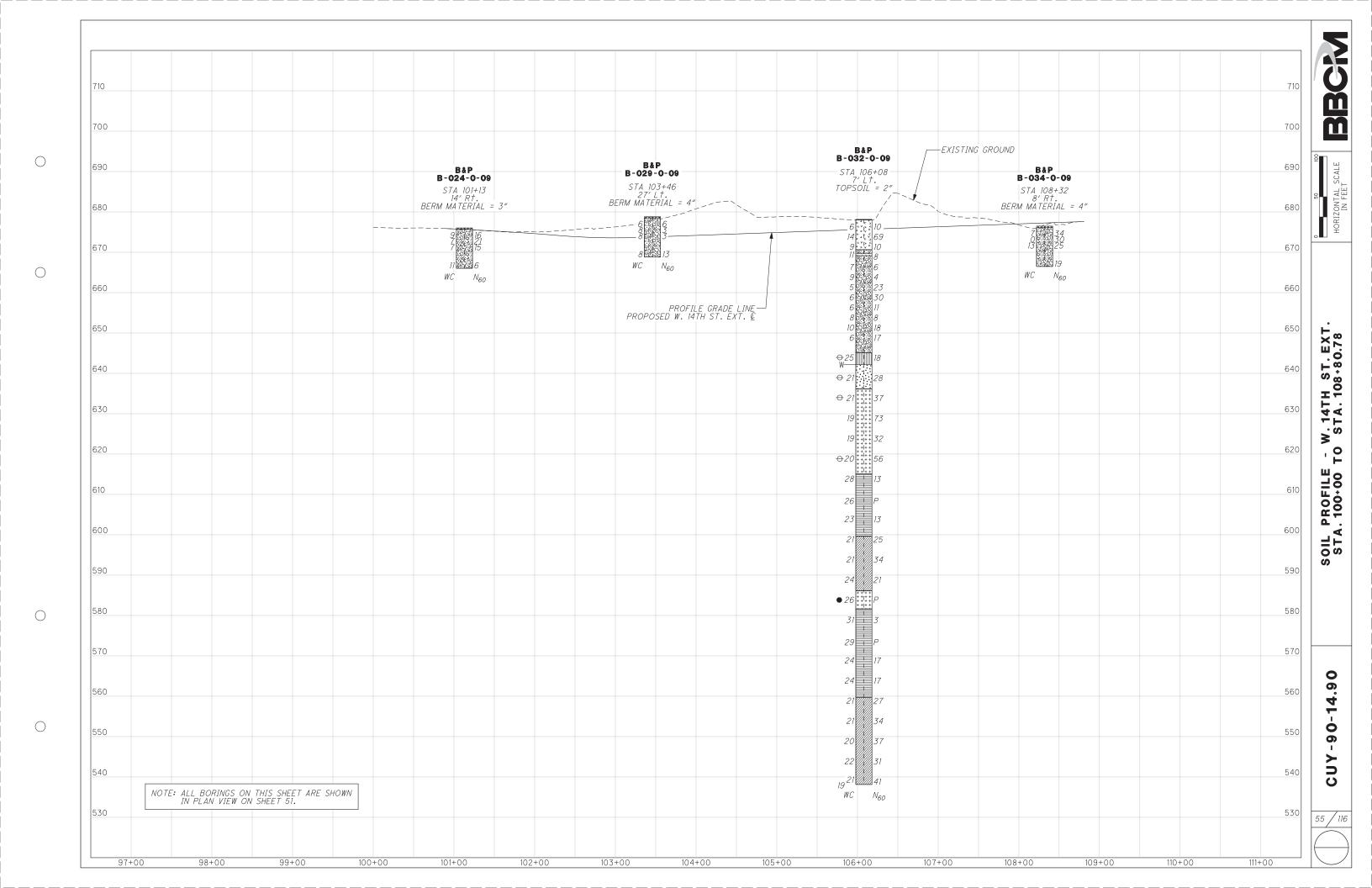


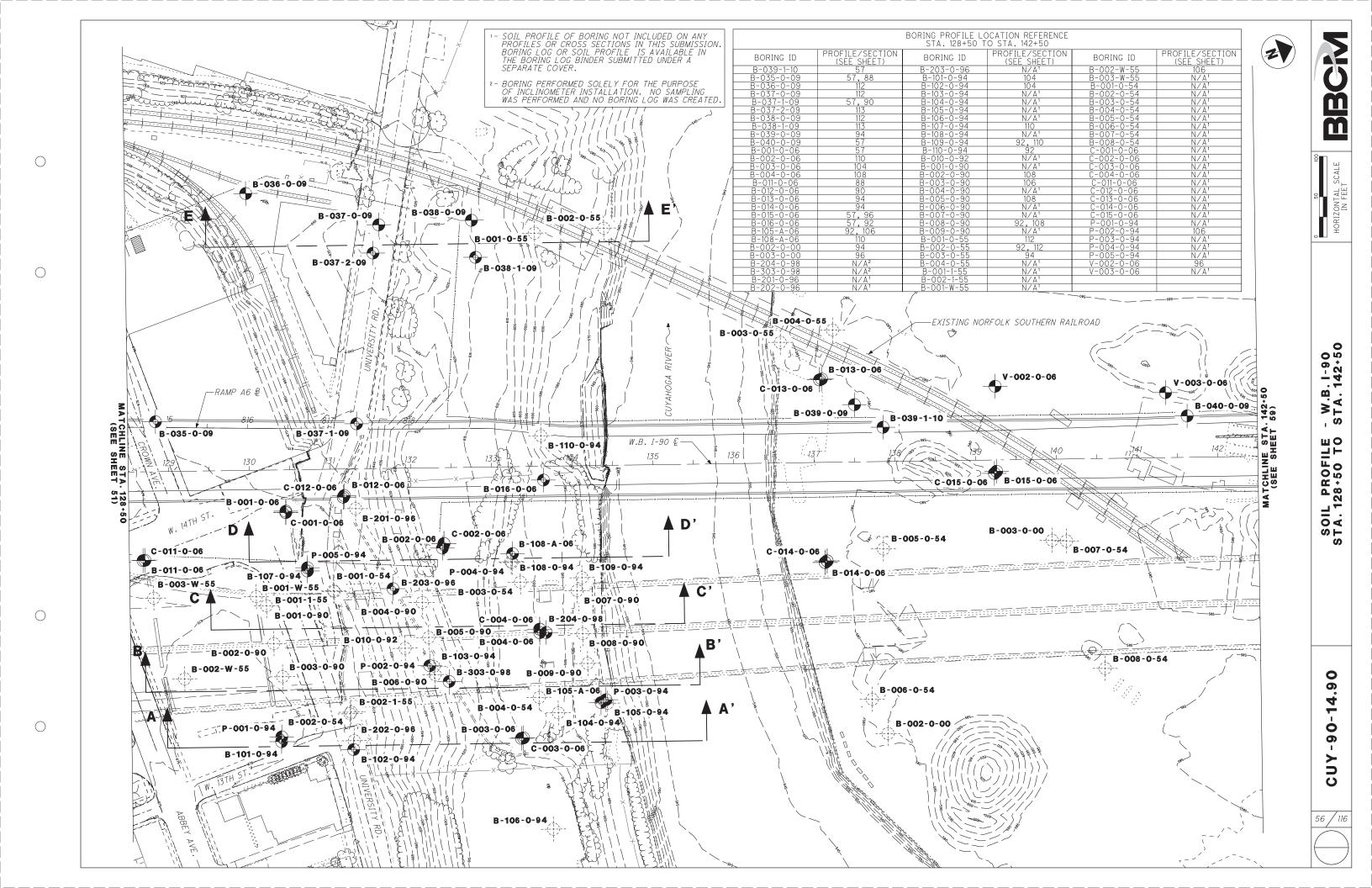


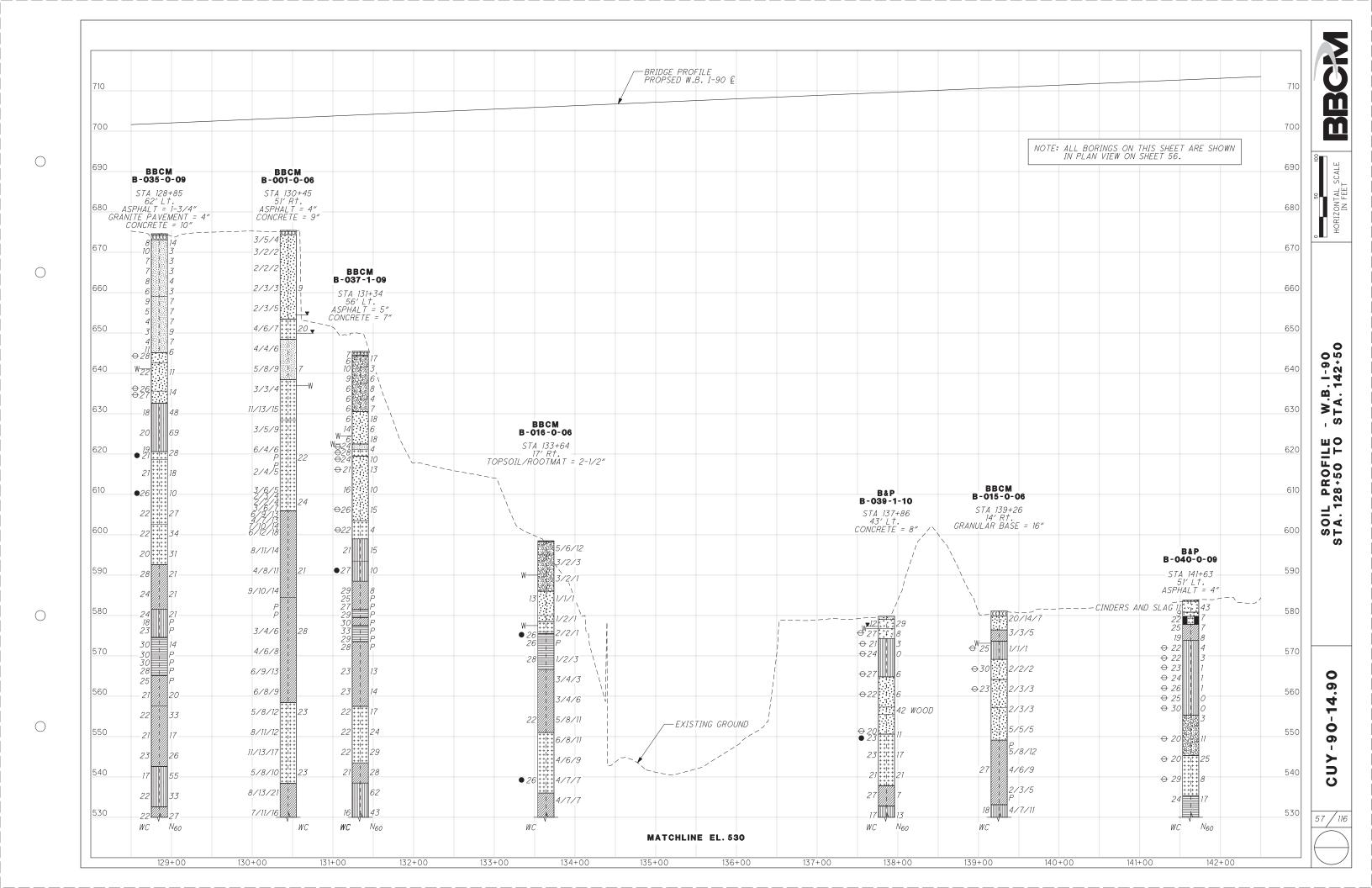


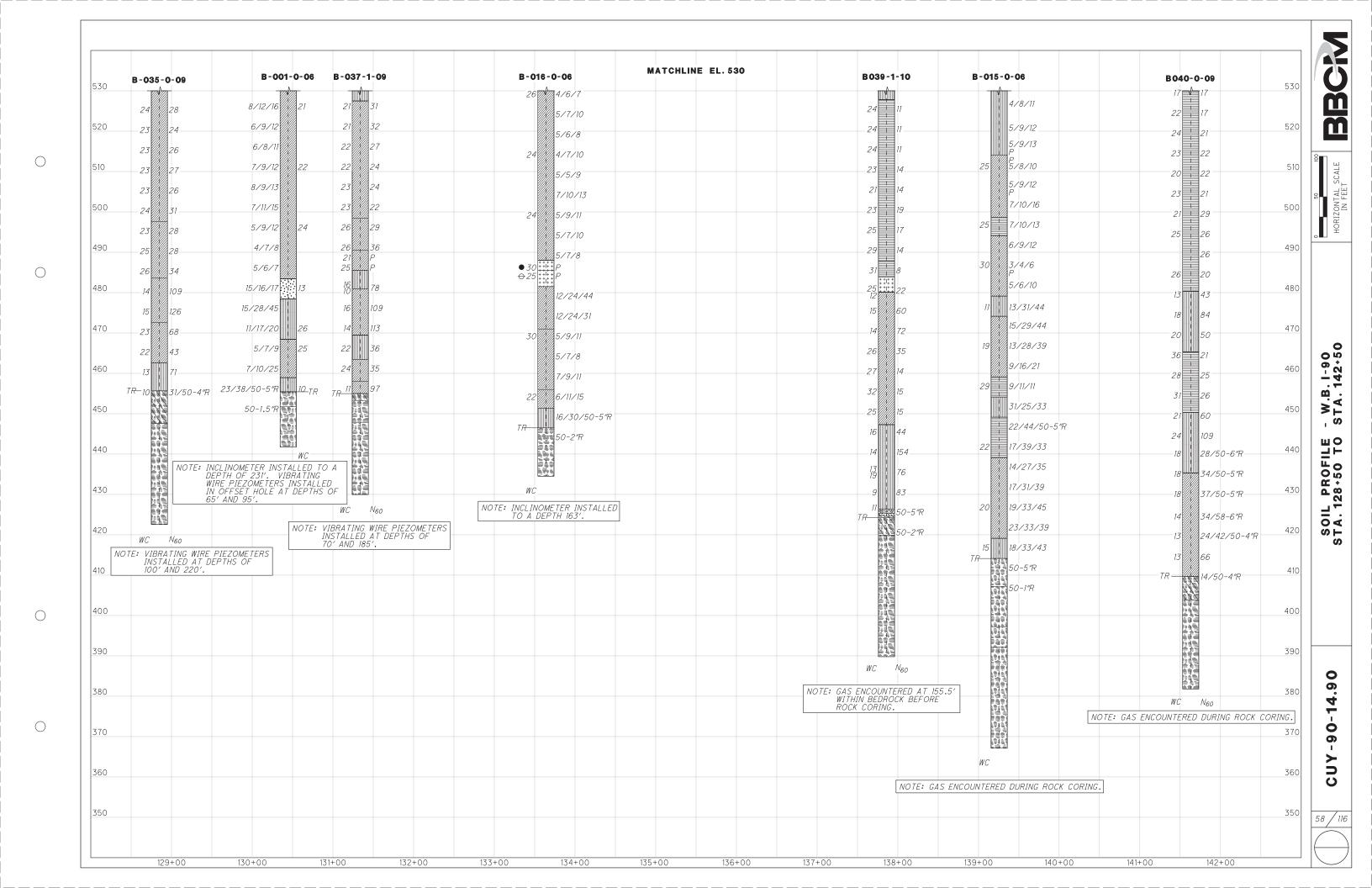


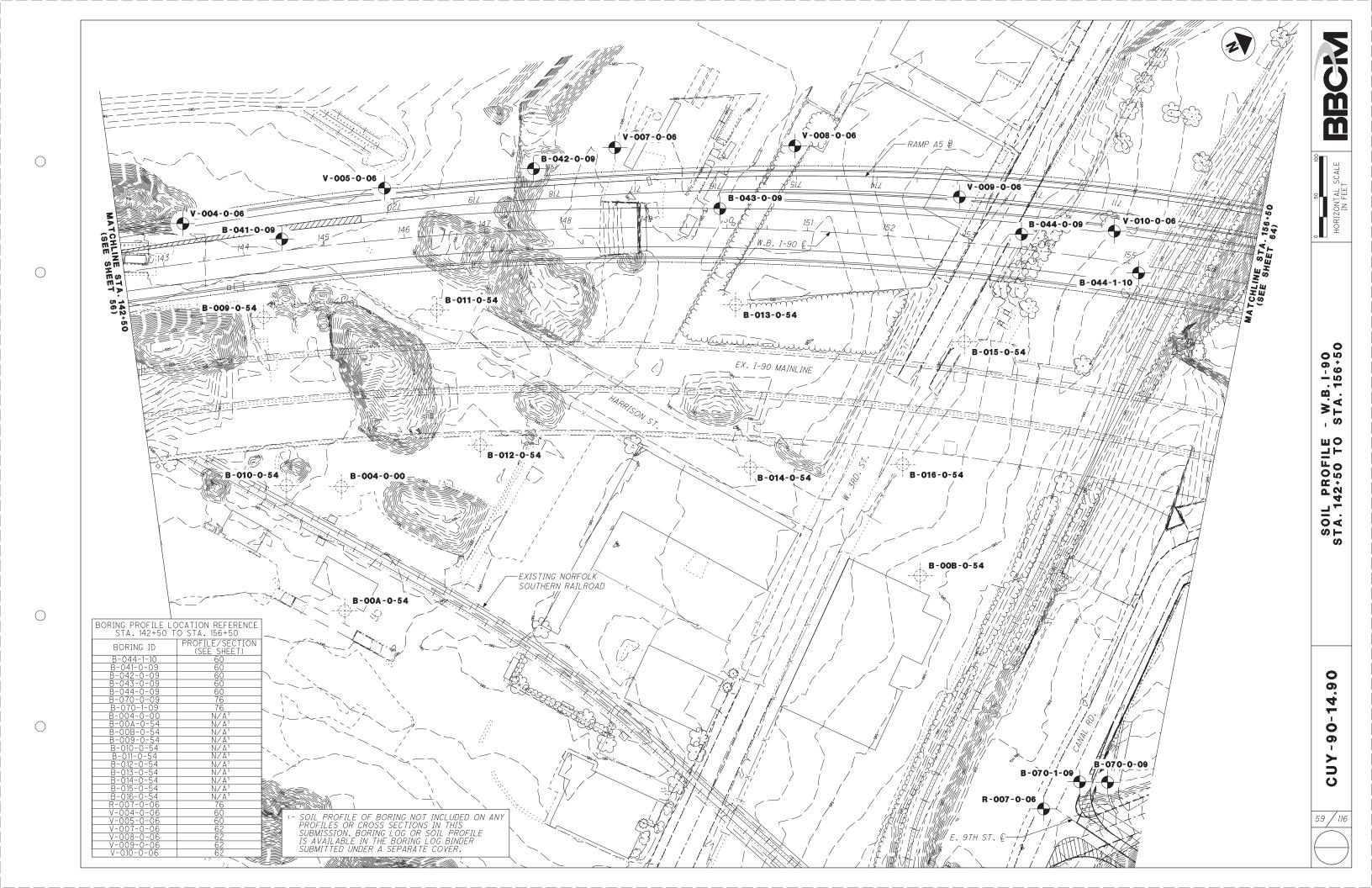


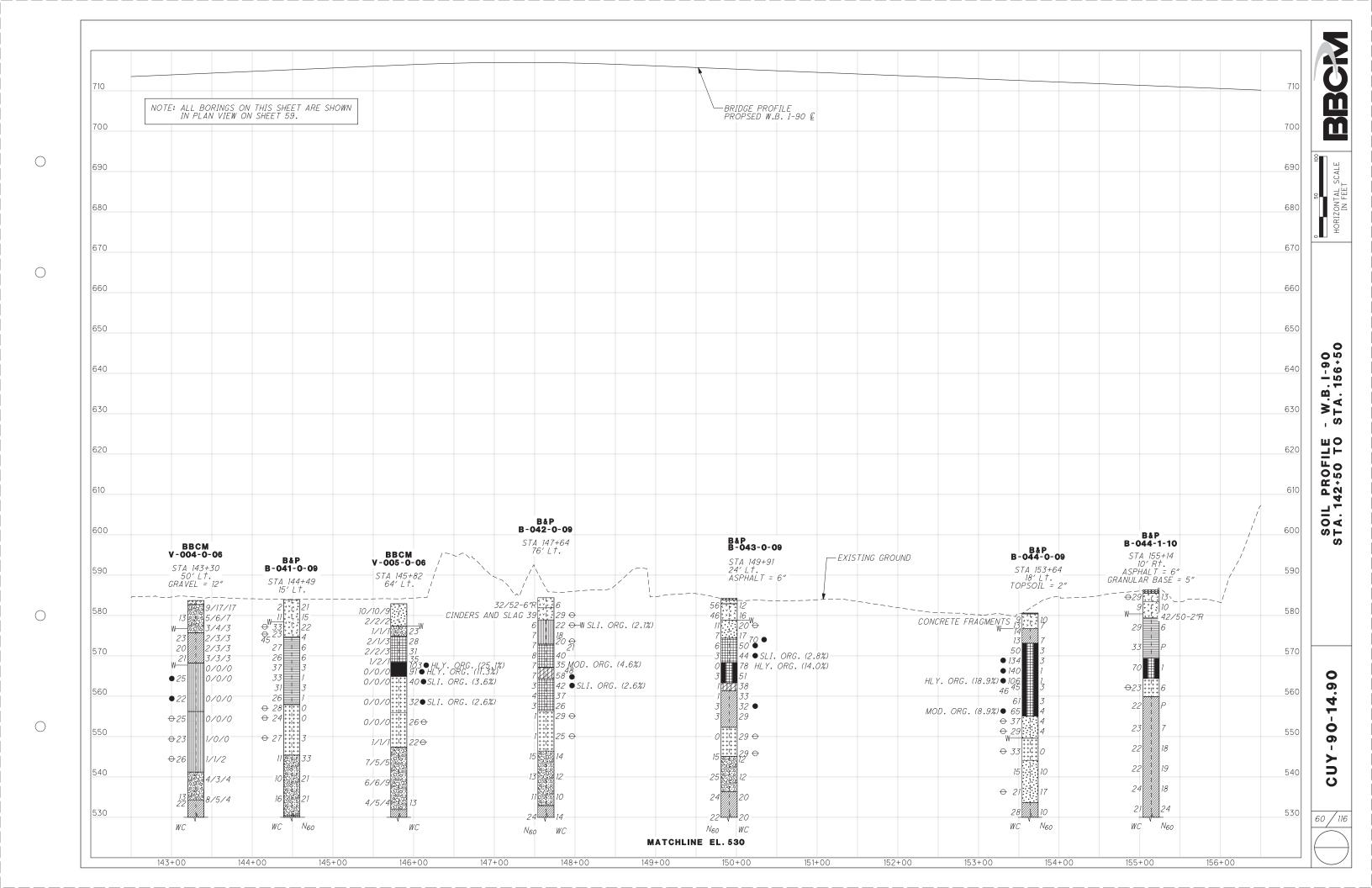


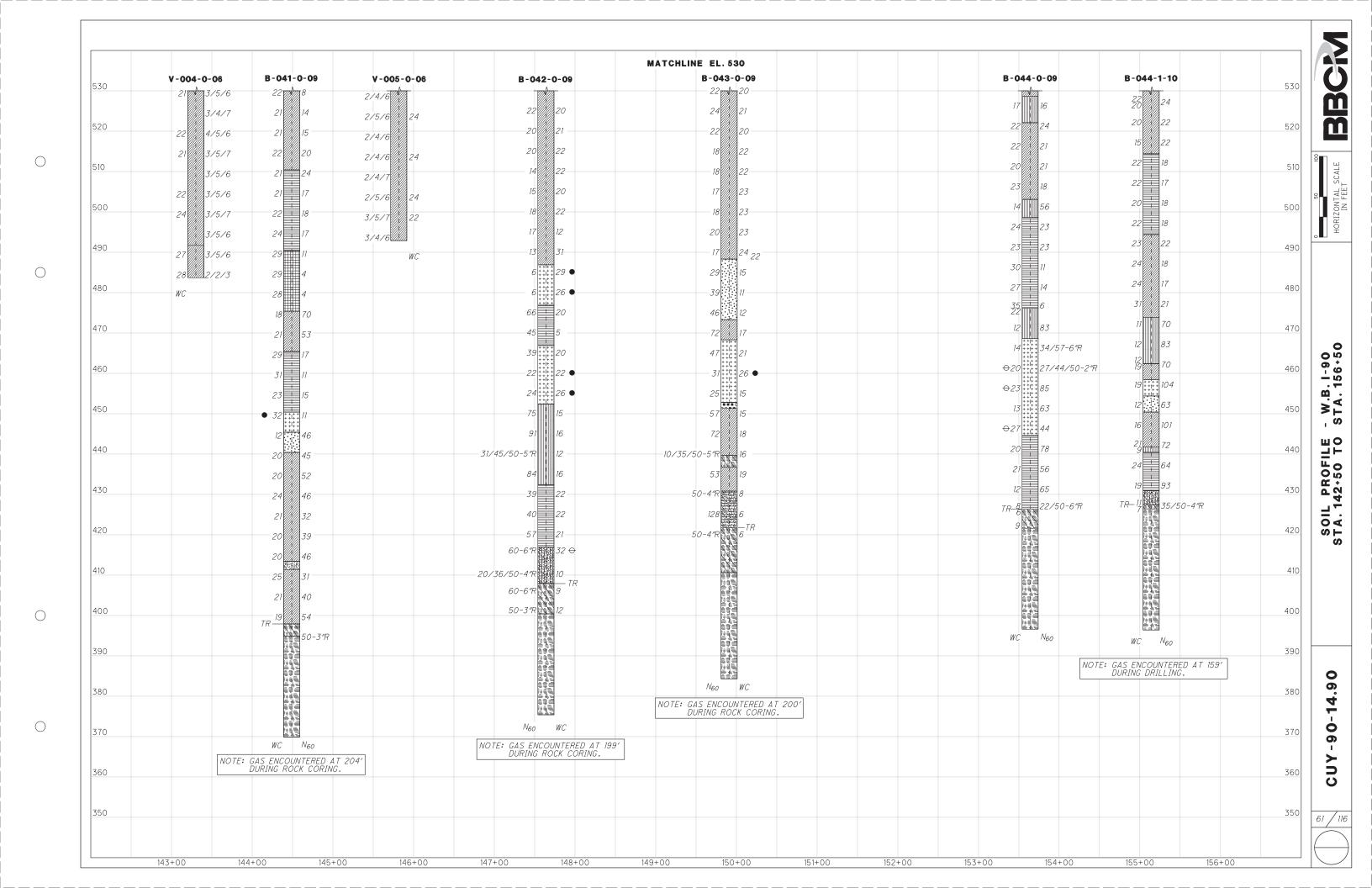


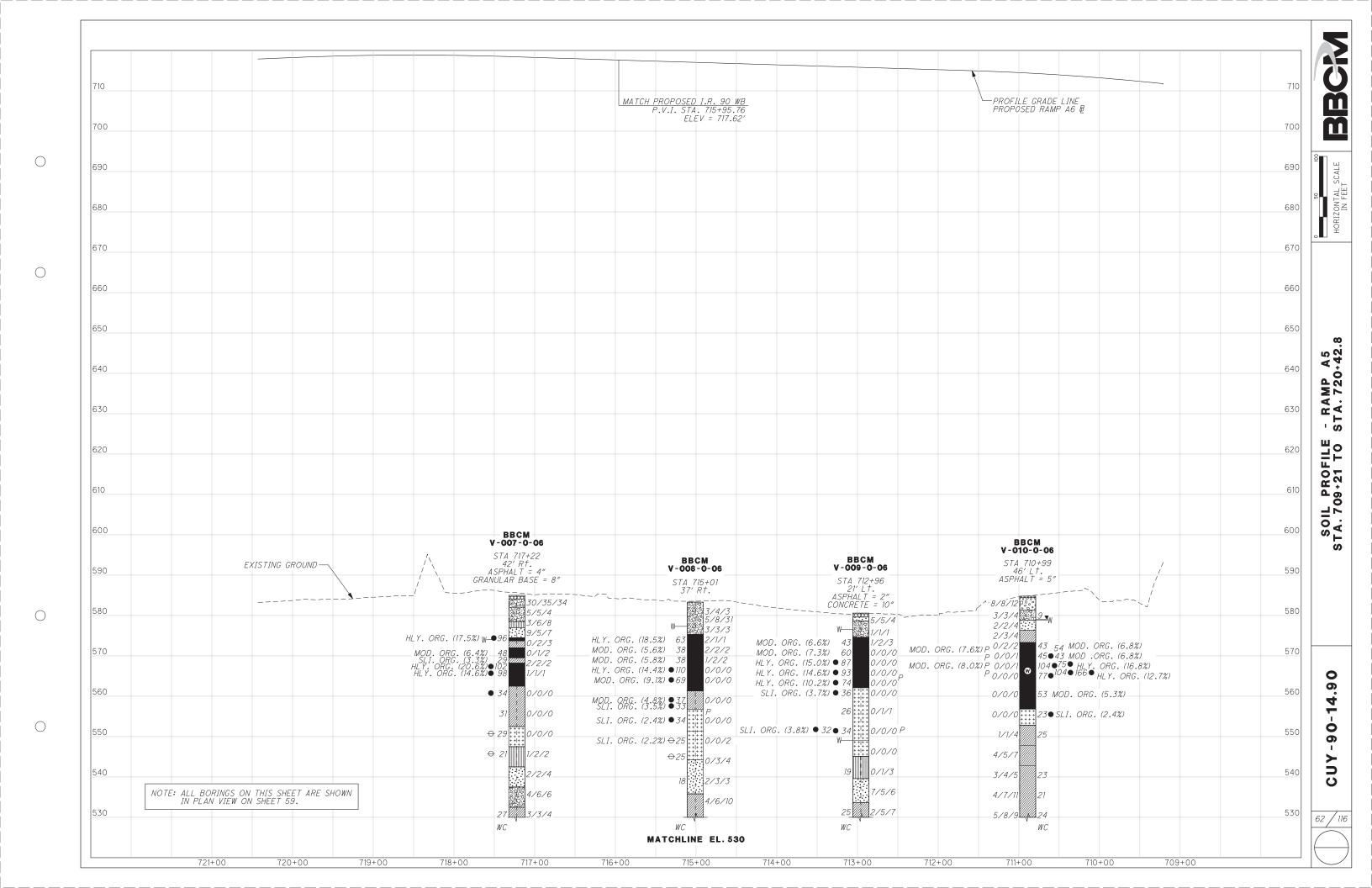


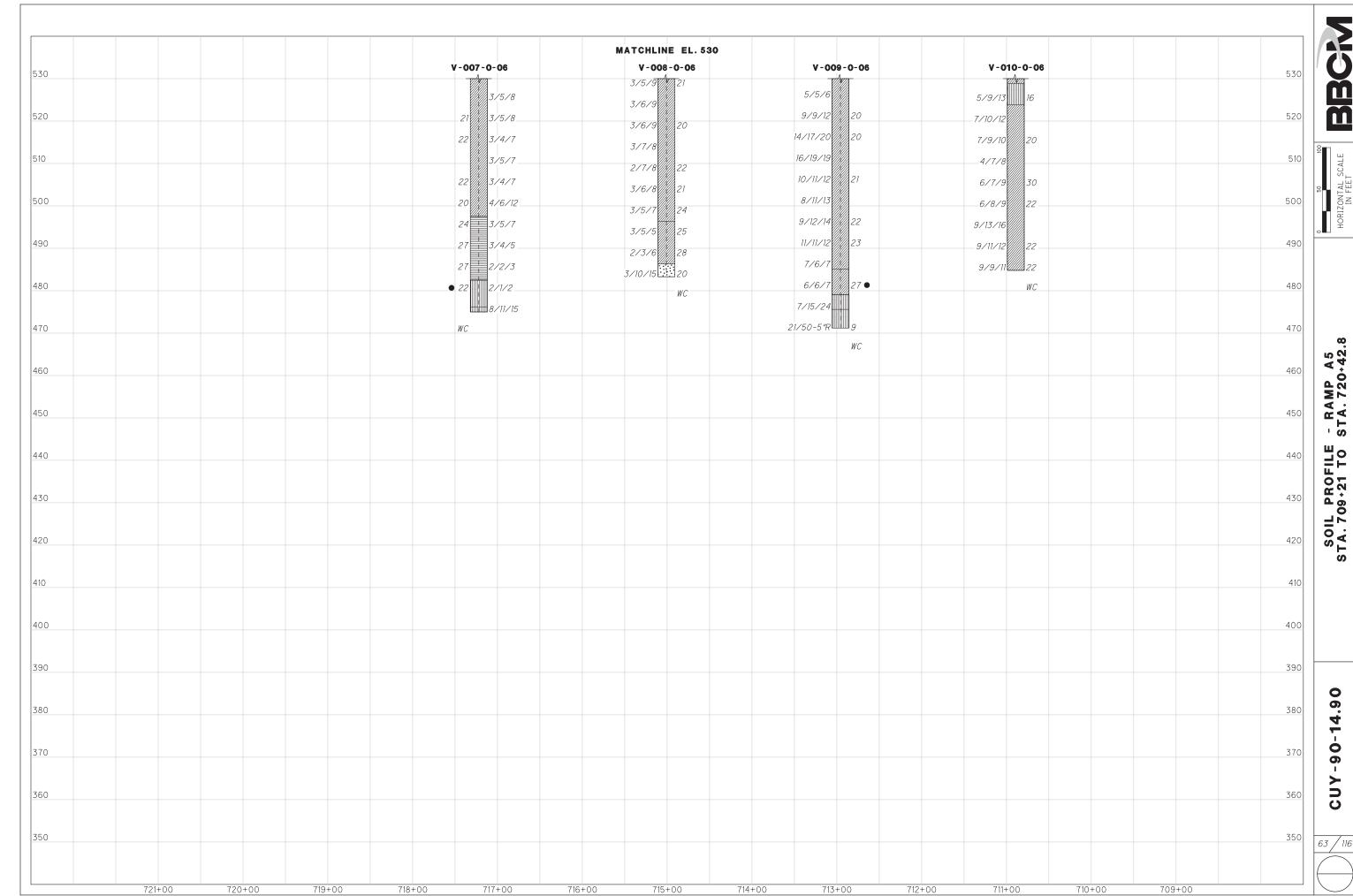










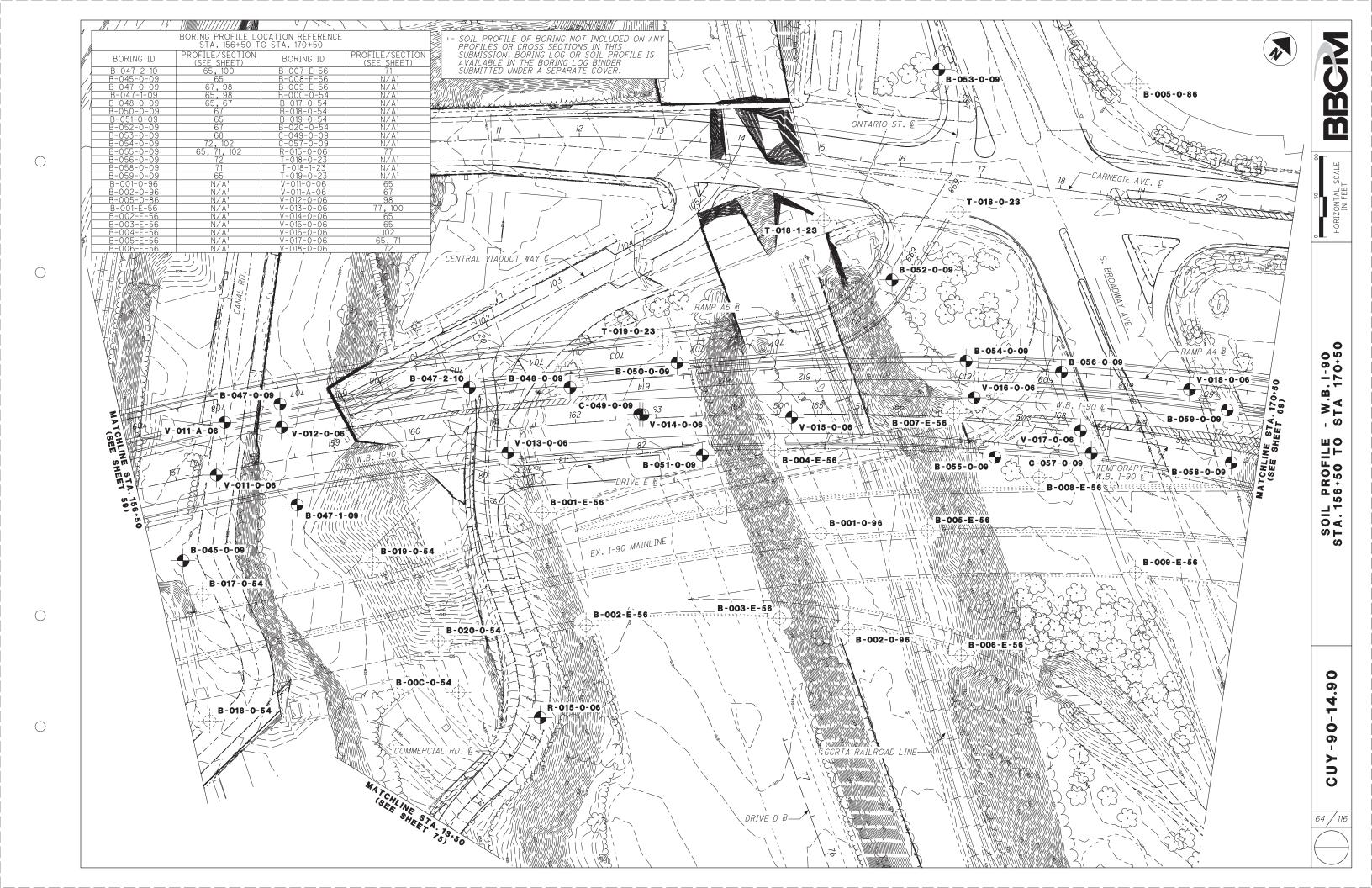


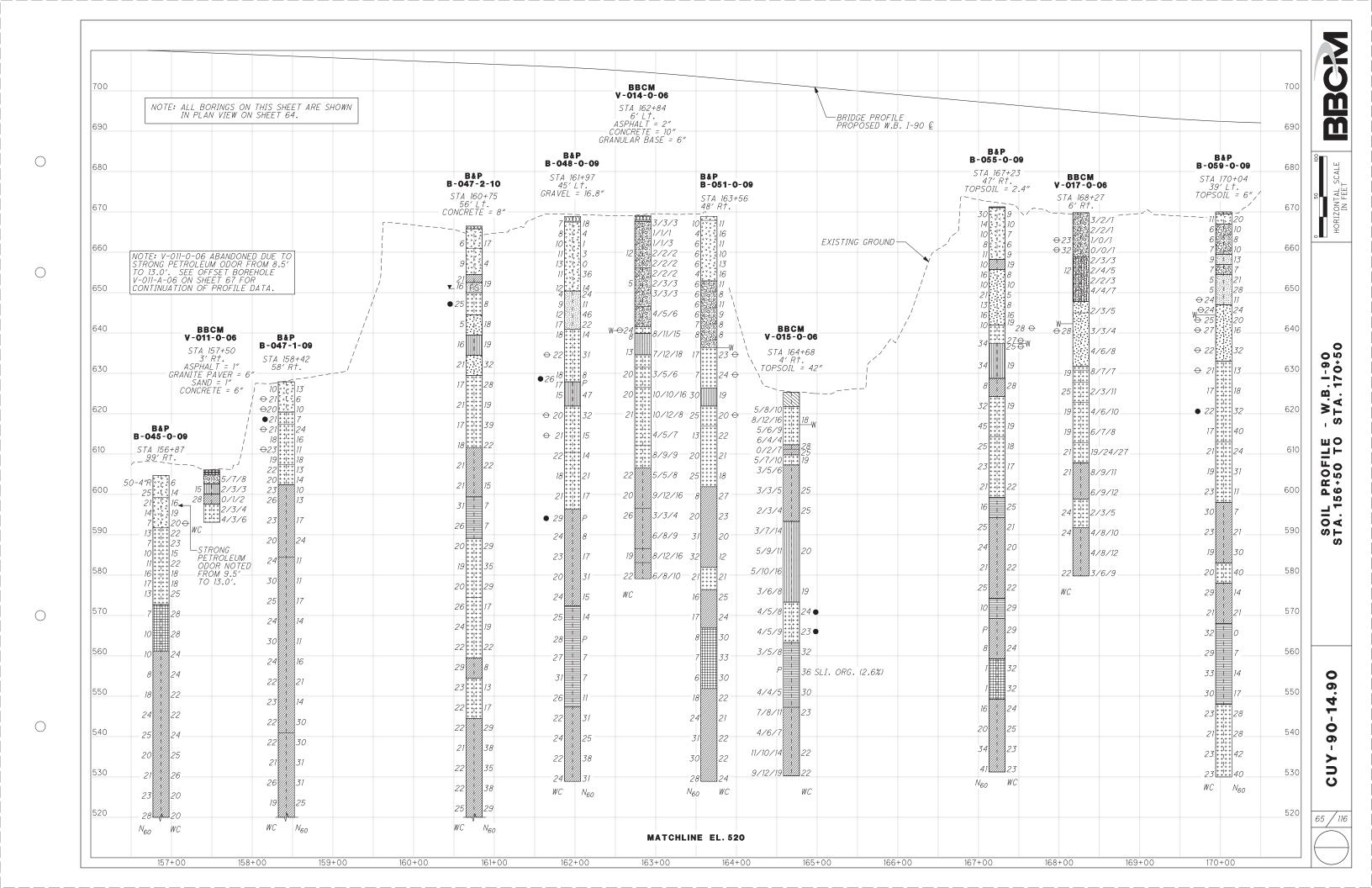
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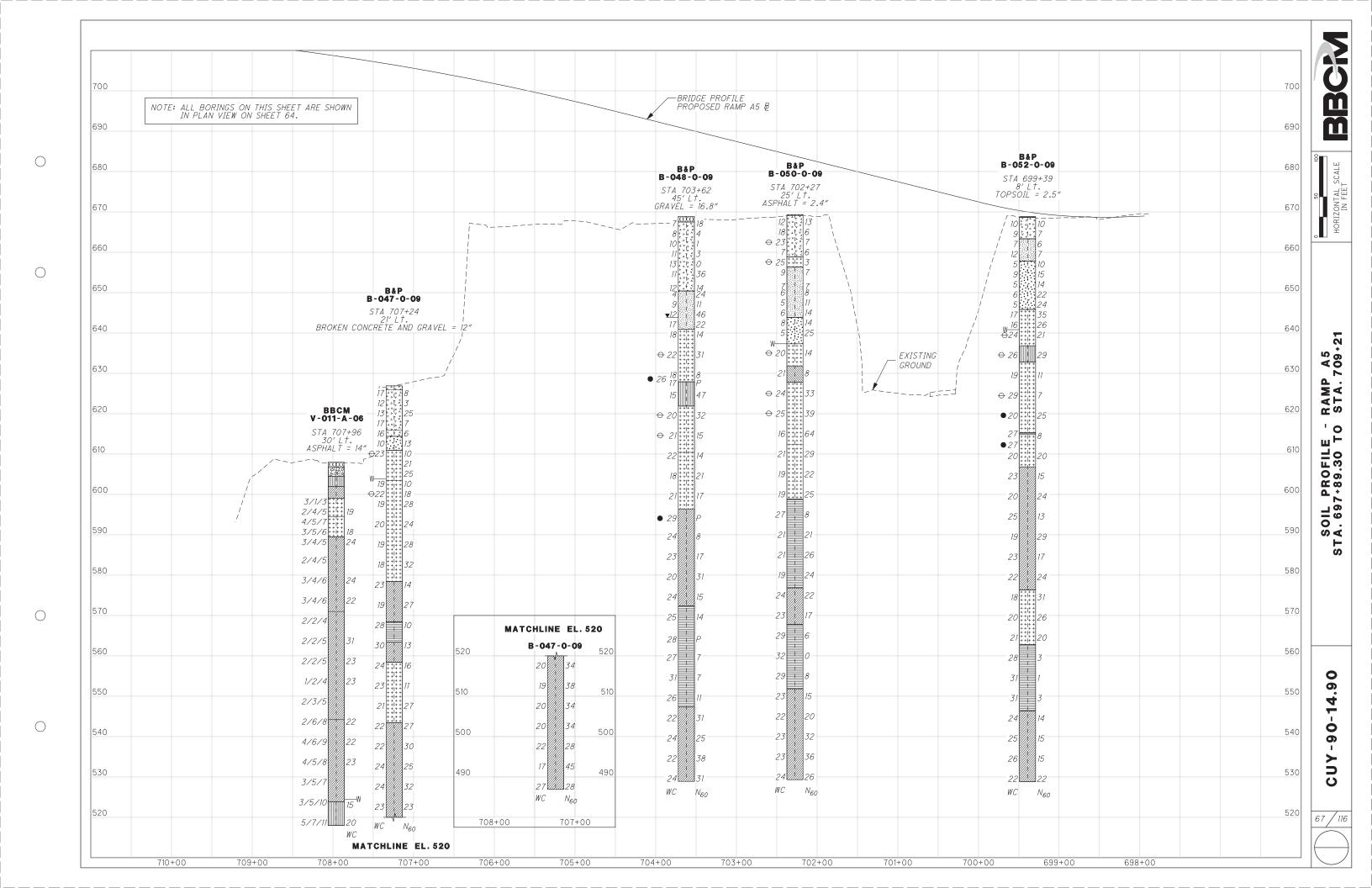
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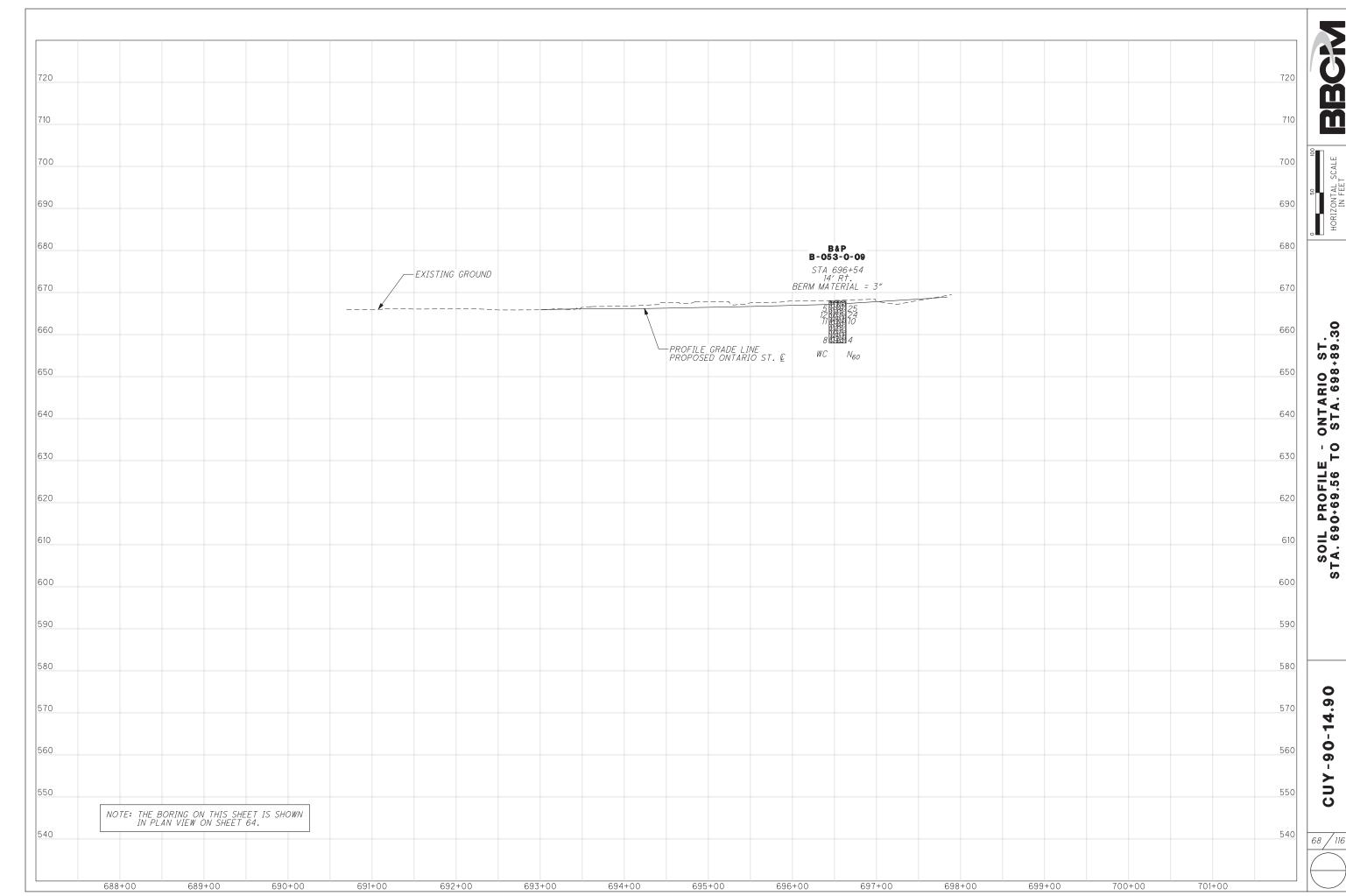
BBCM









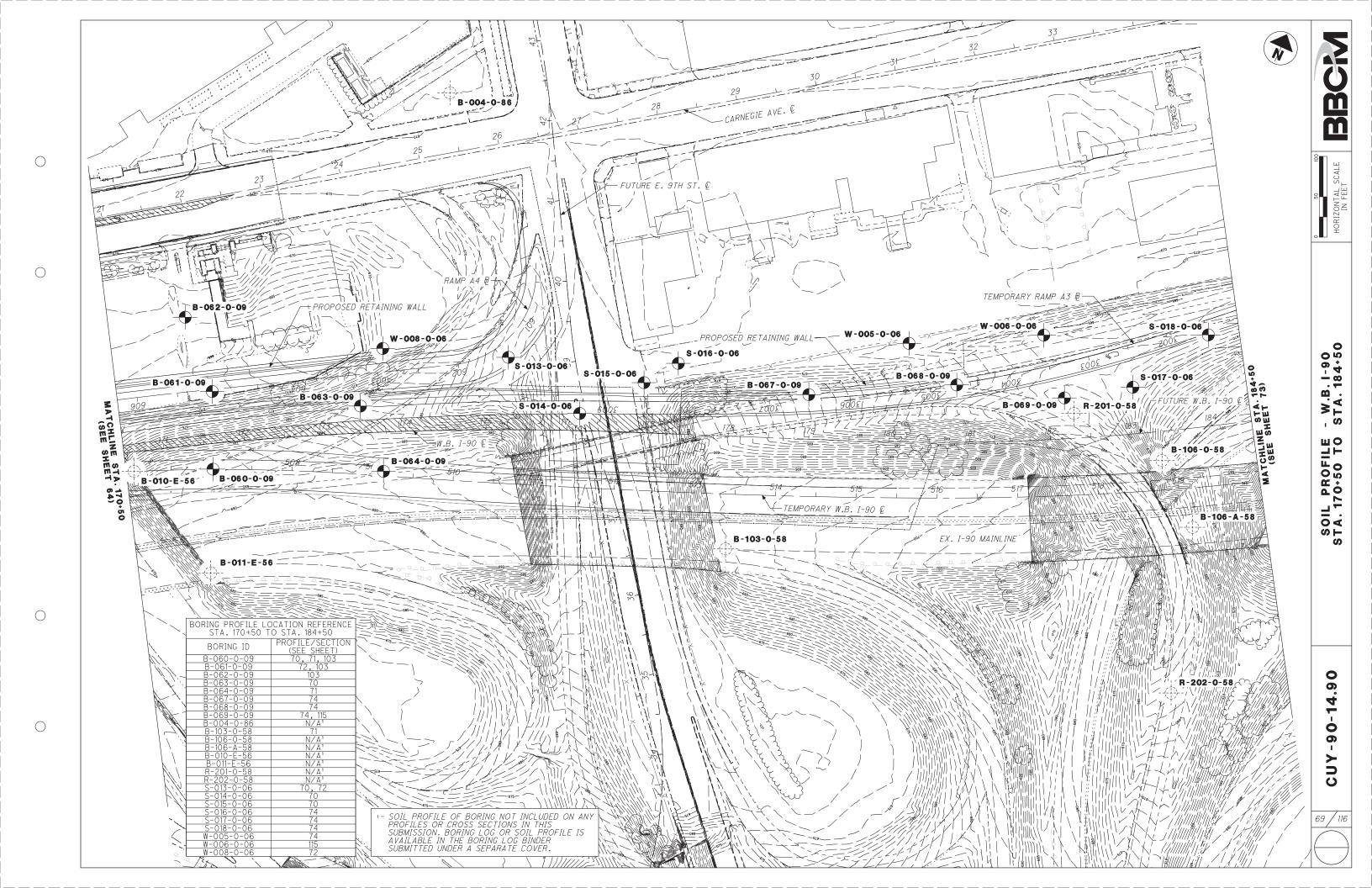


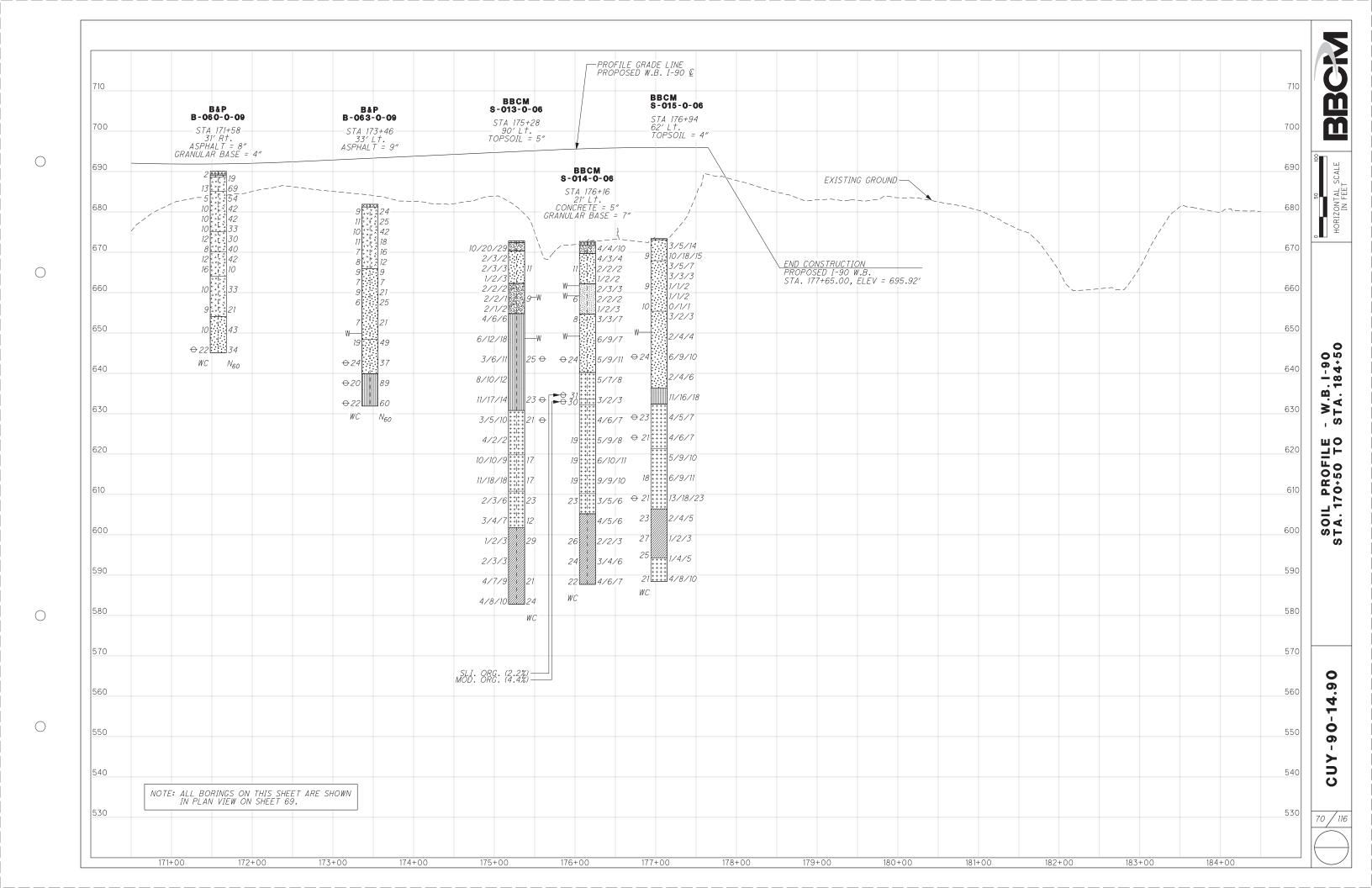
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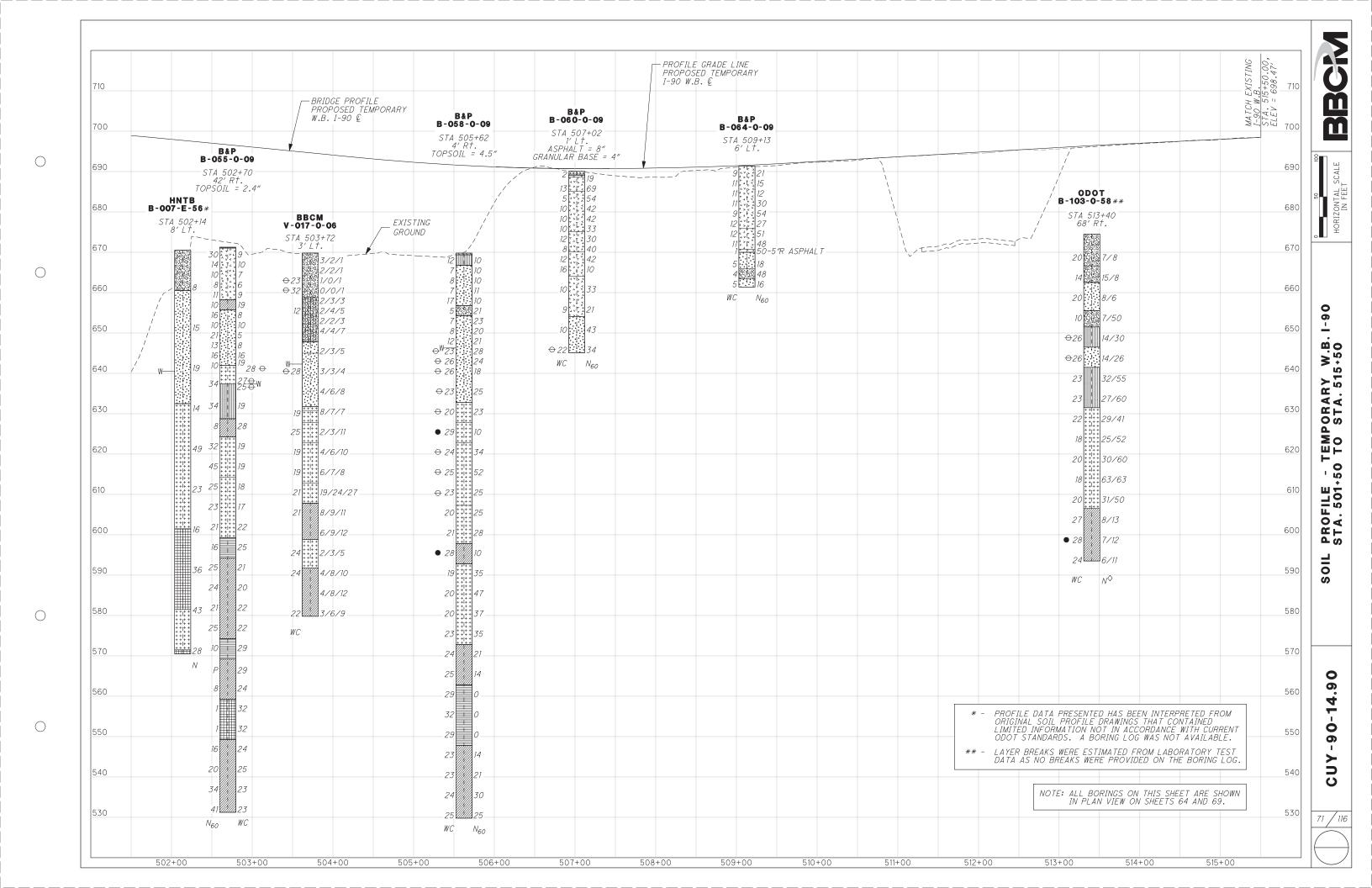
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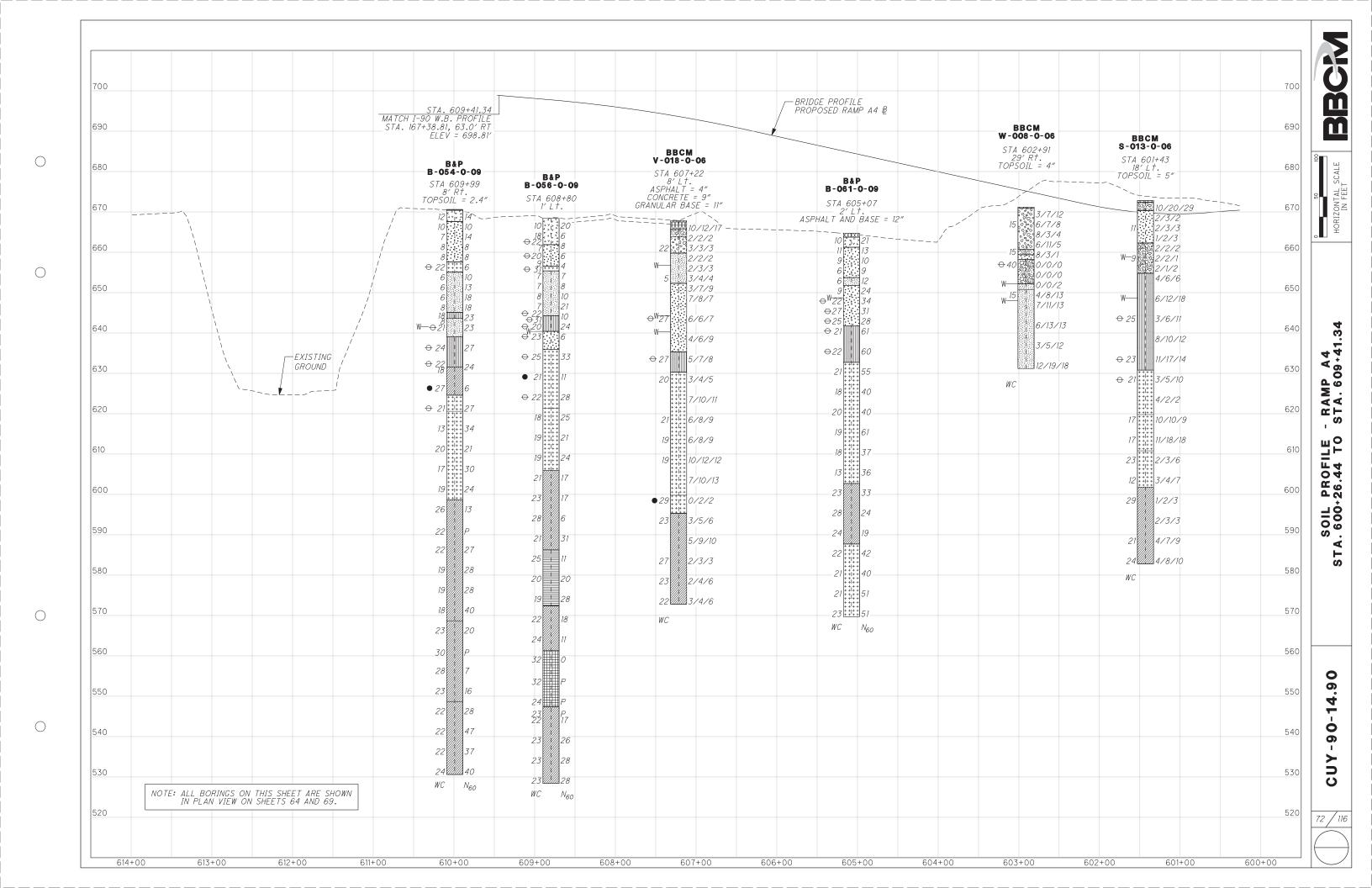
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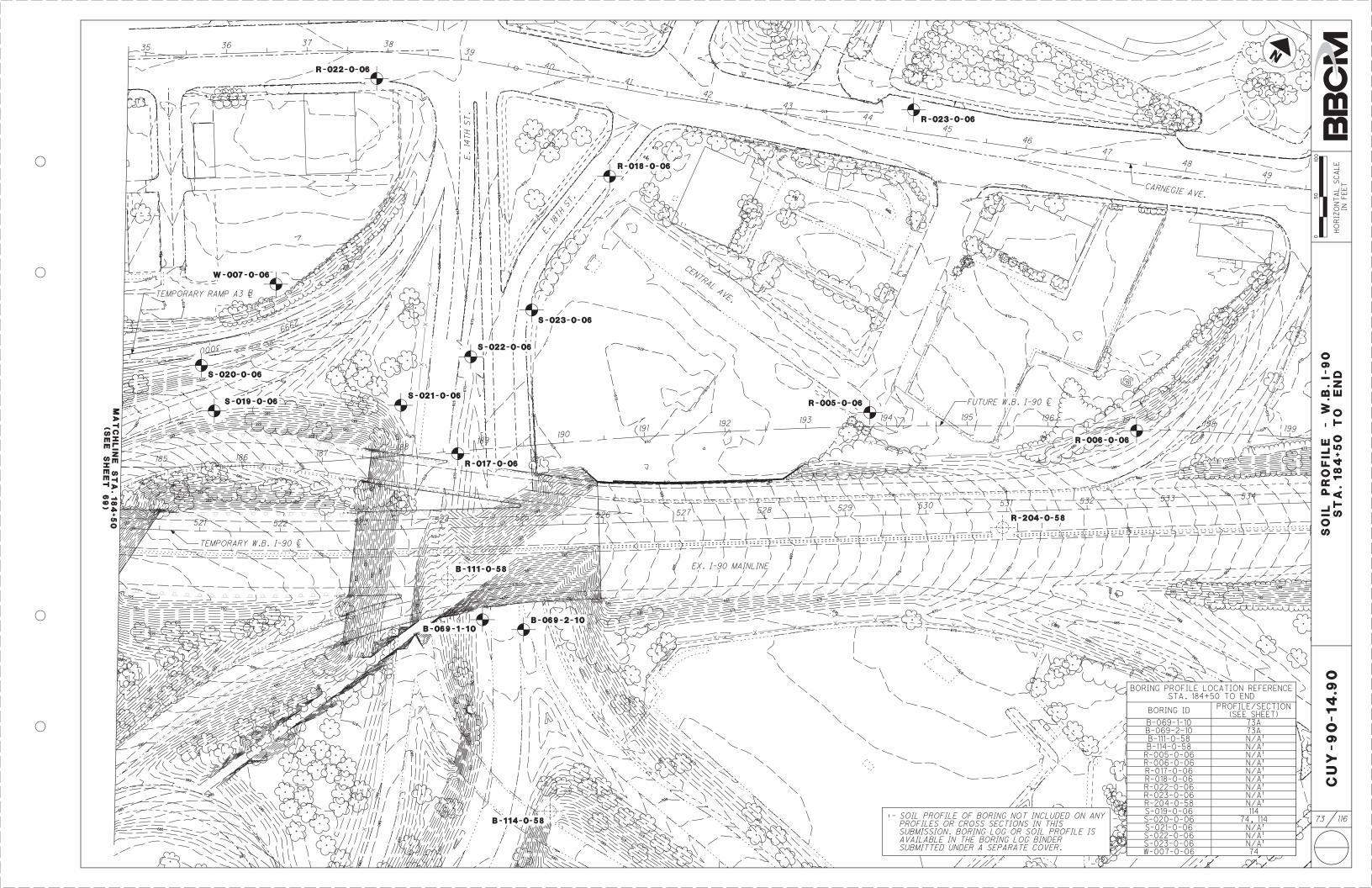
BBCM

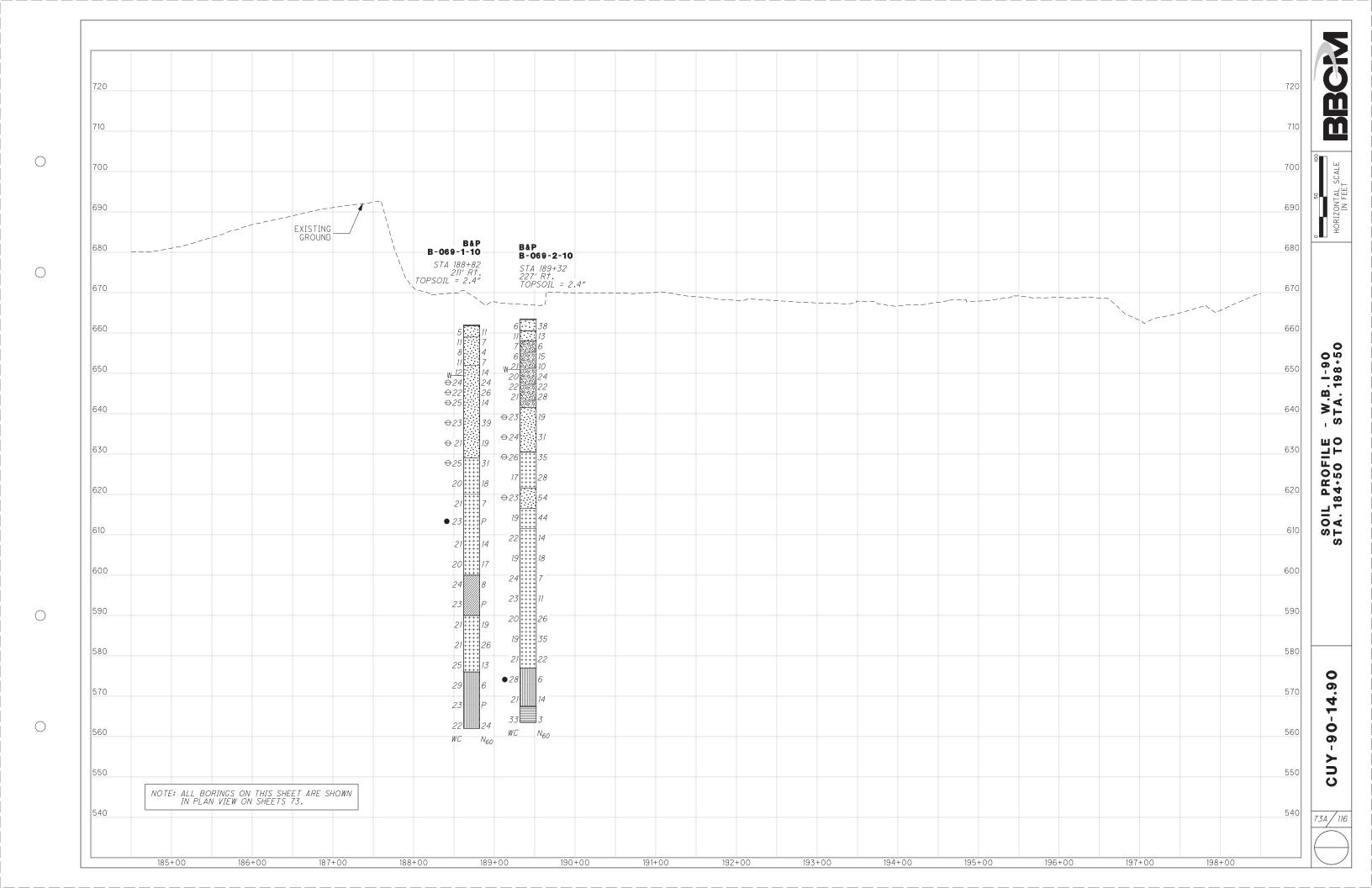


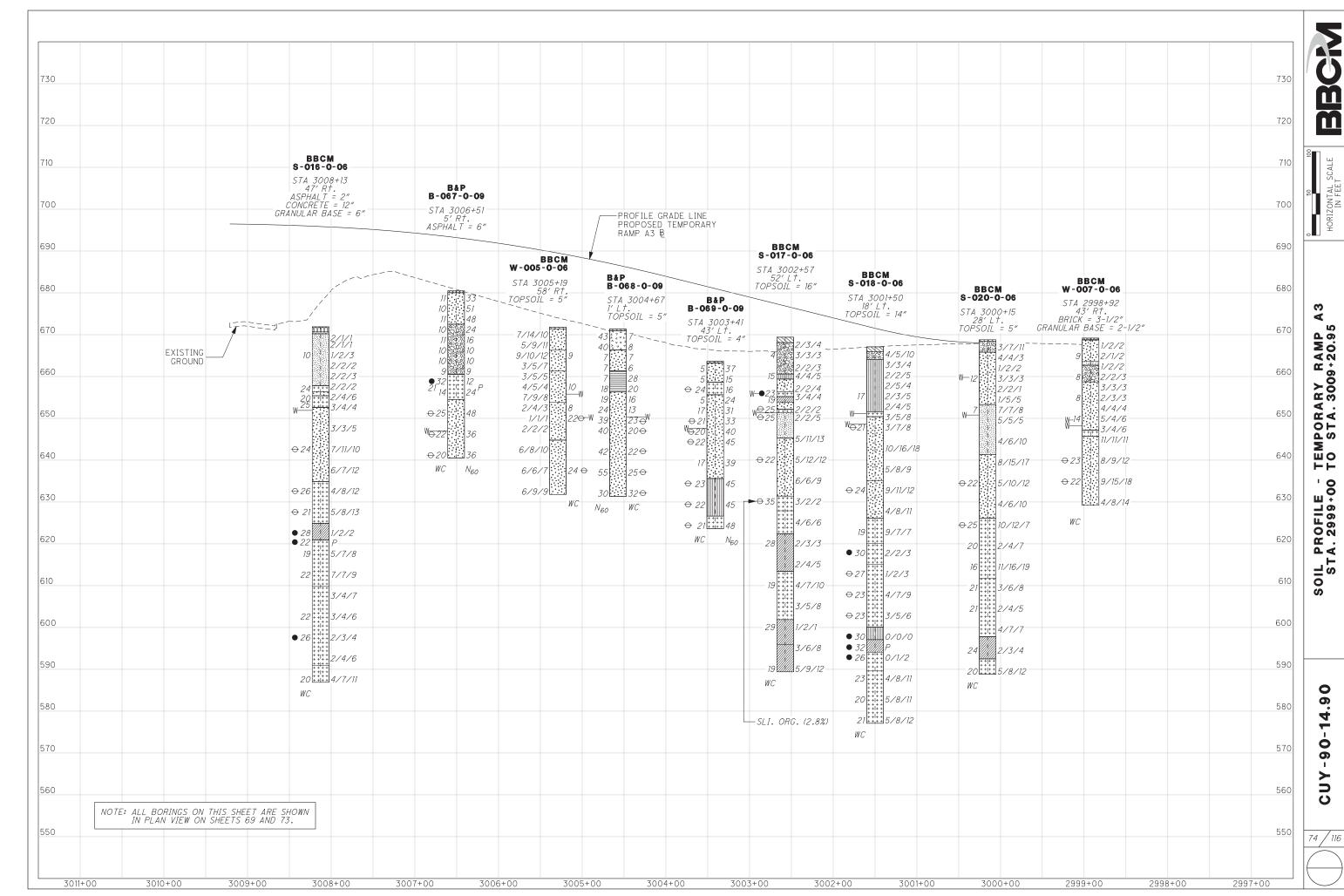






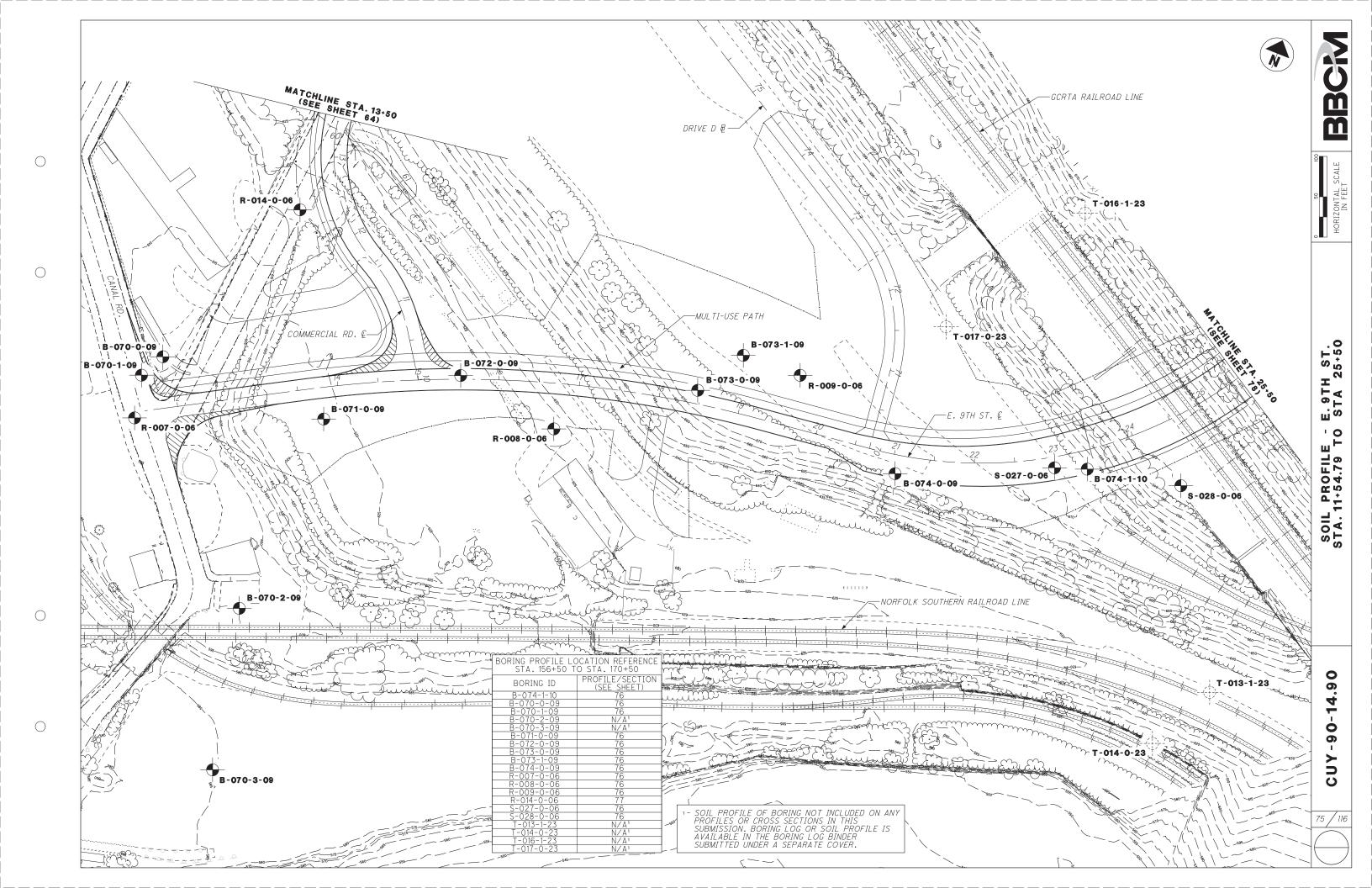


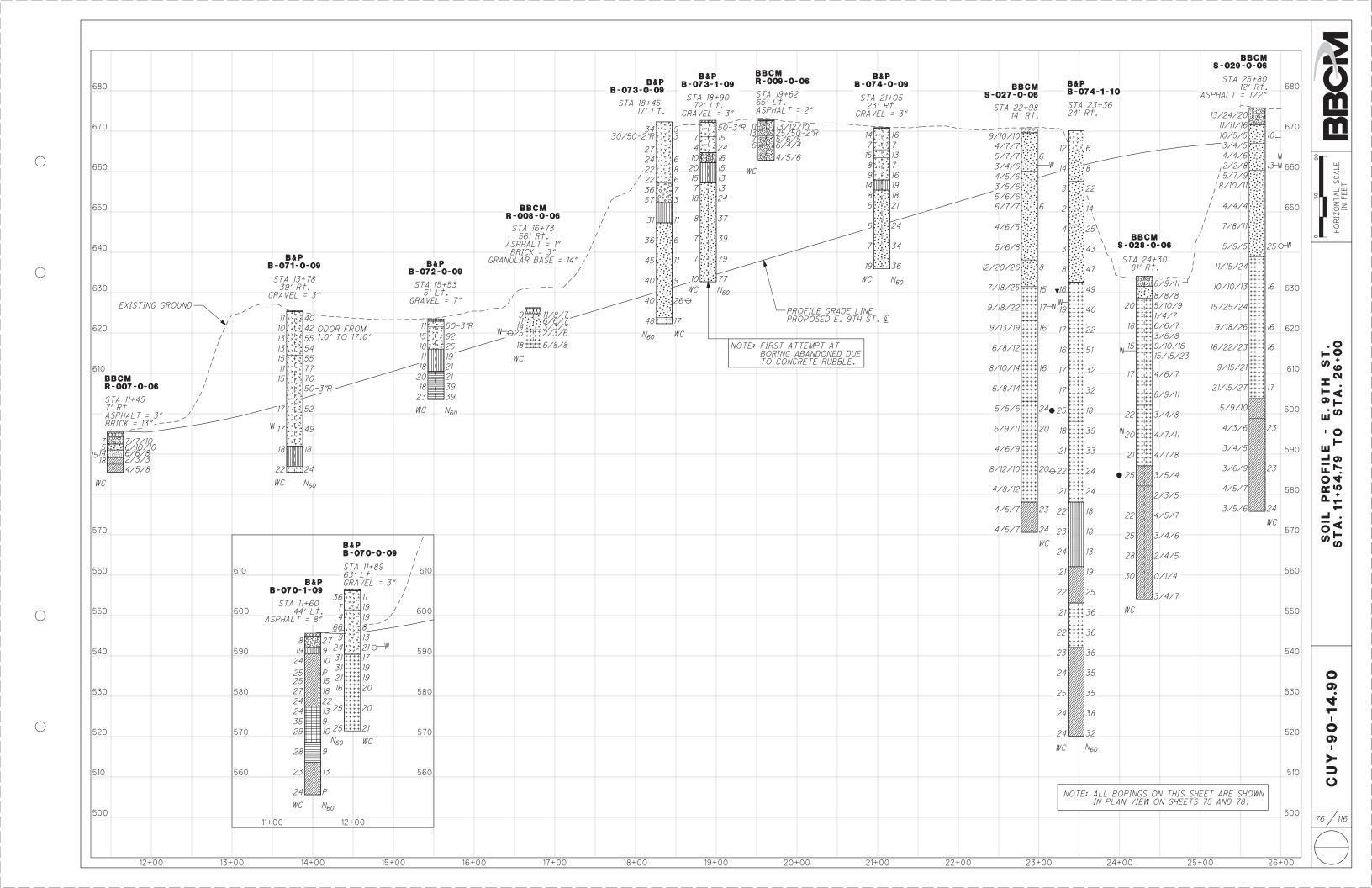


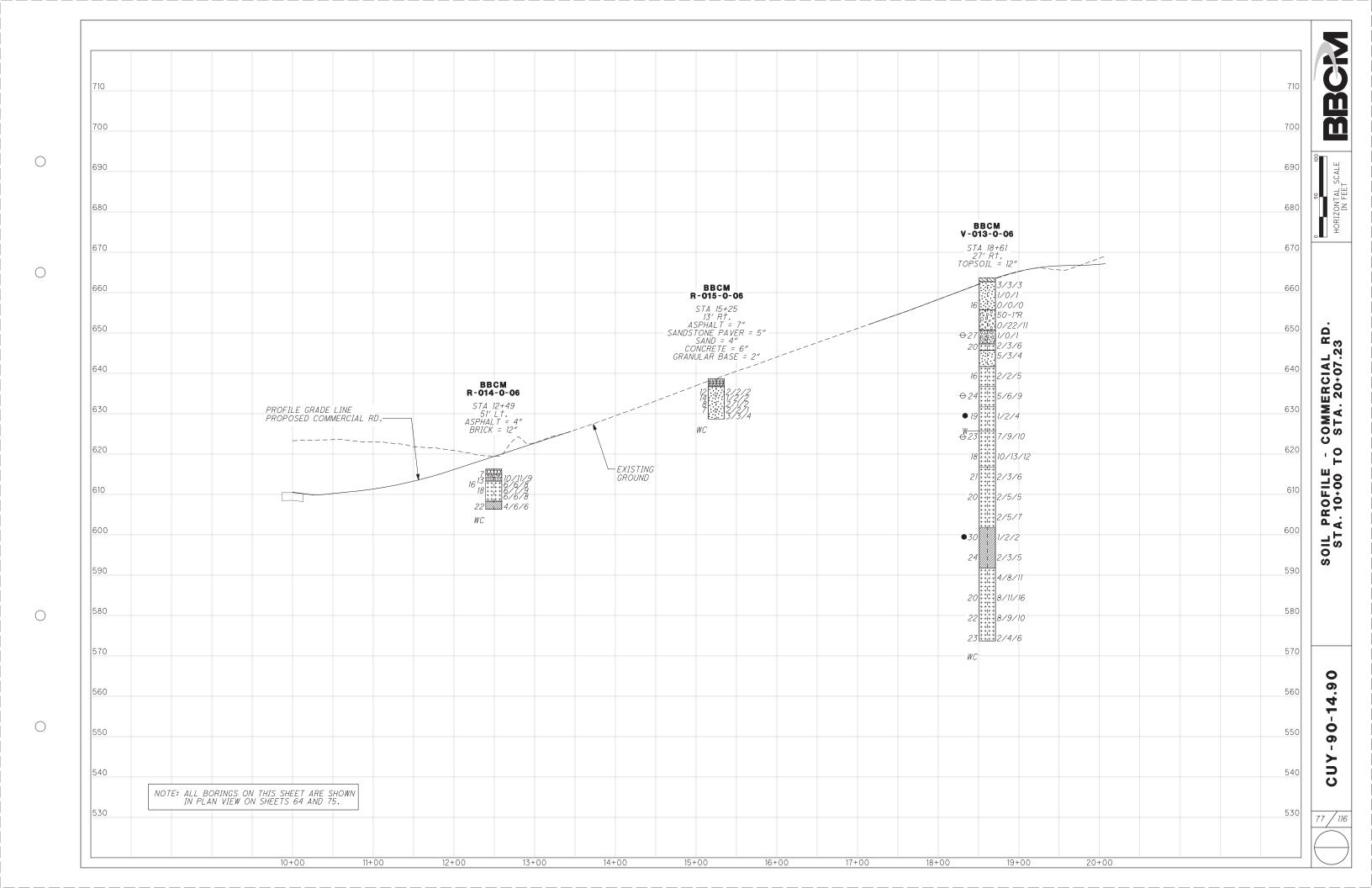


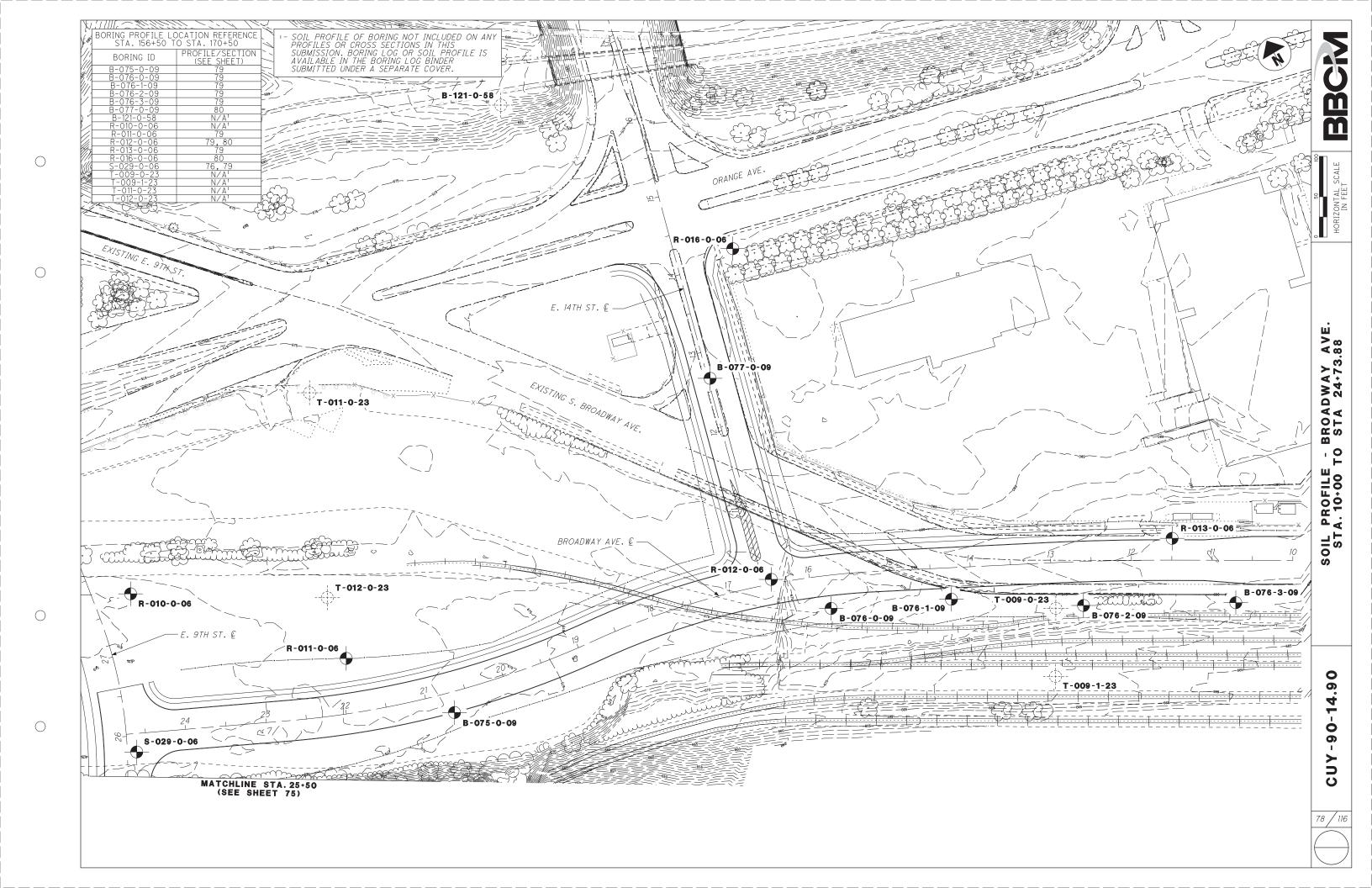
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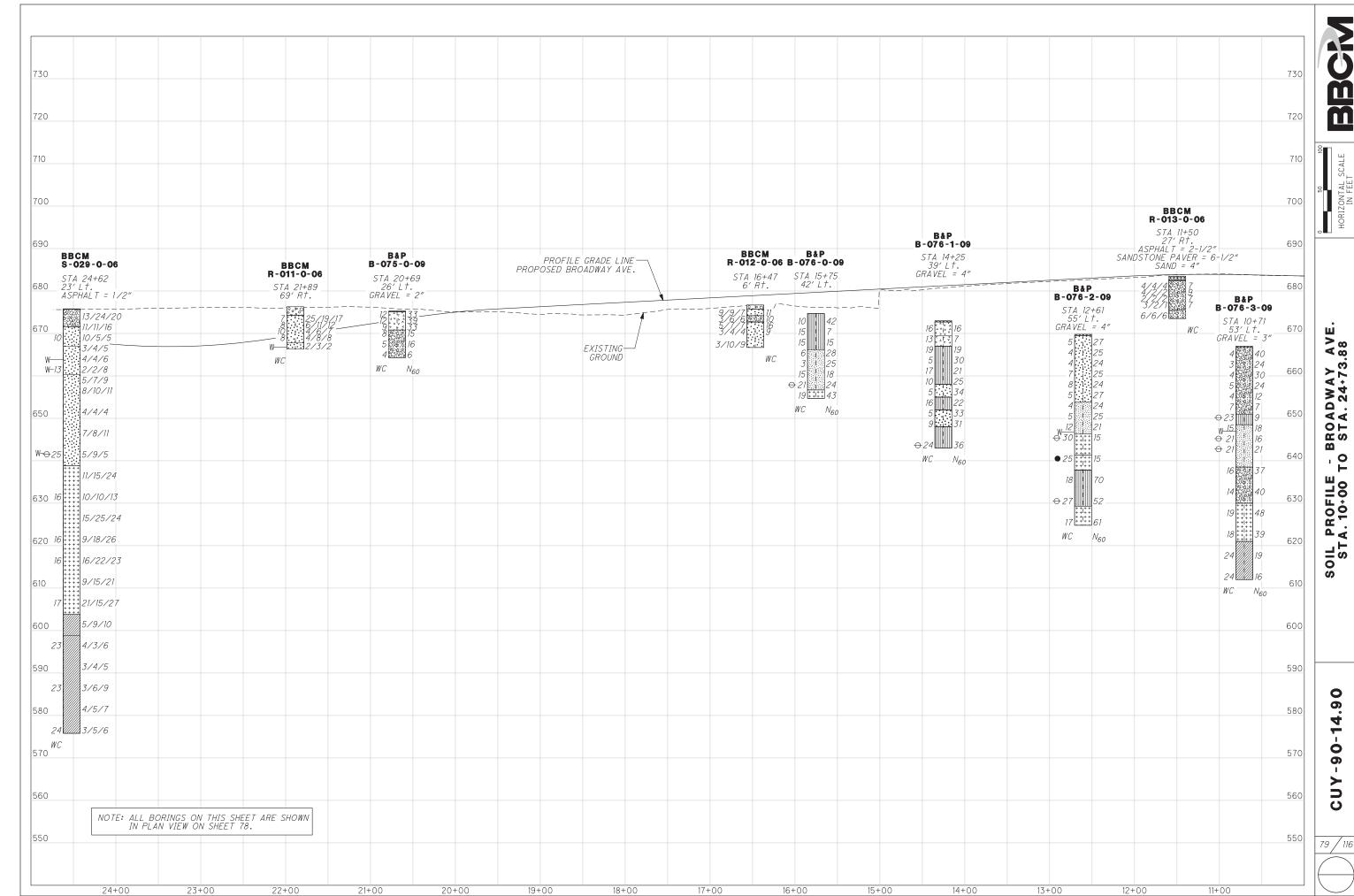
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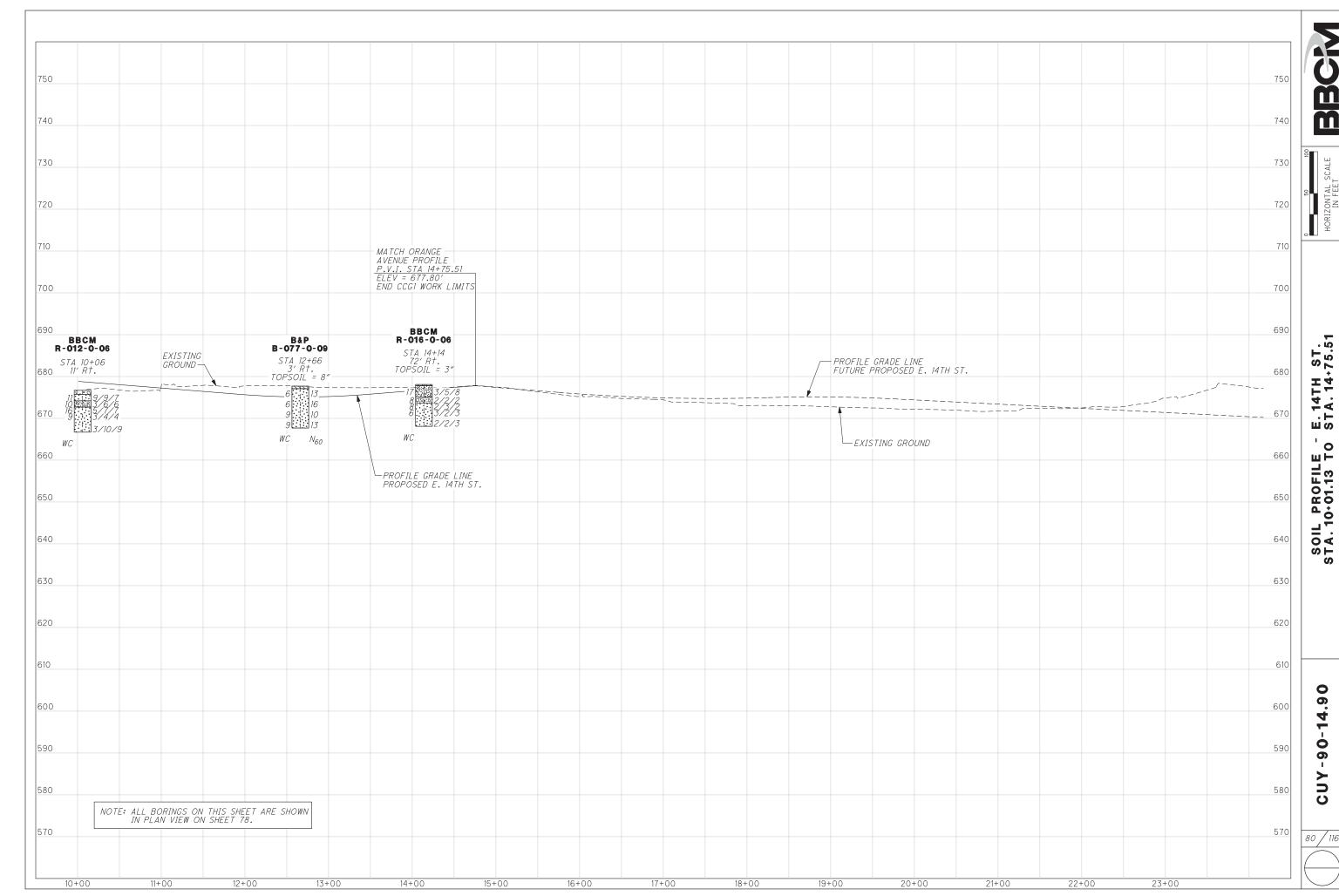
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BROADWAY / STA. 24+73.8 - P

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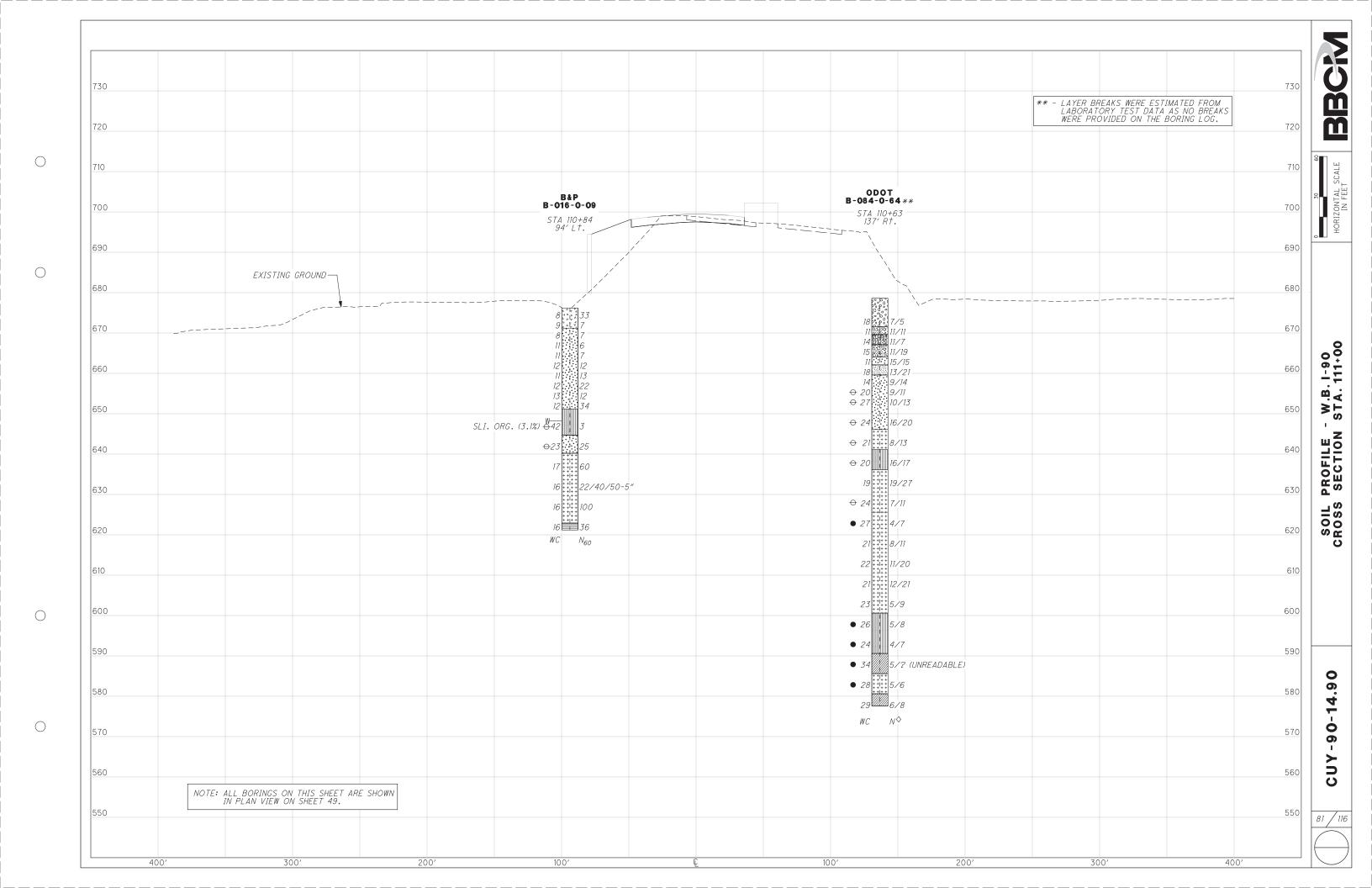
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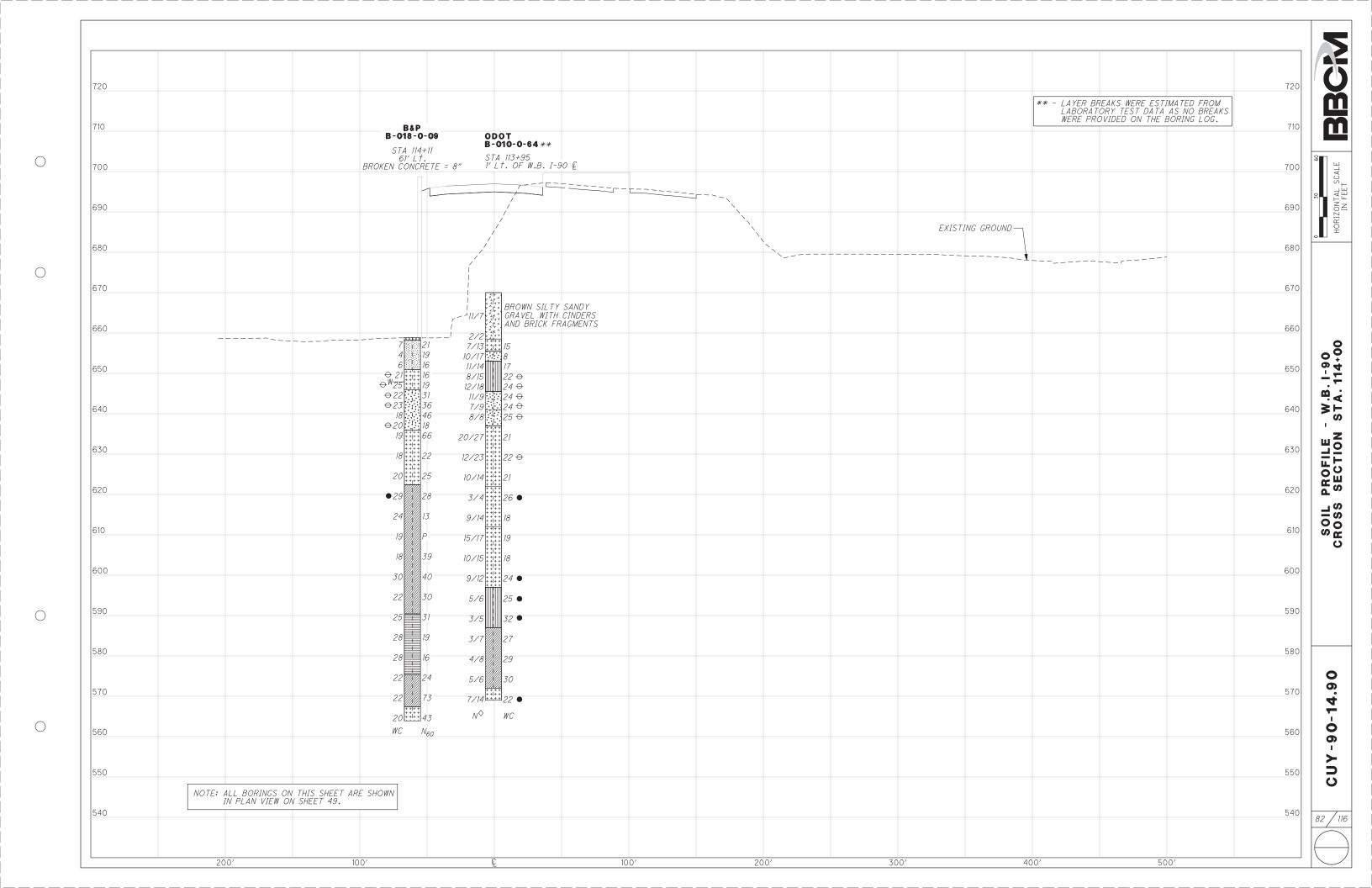
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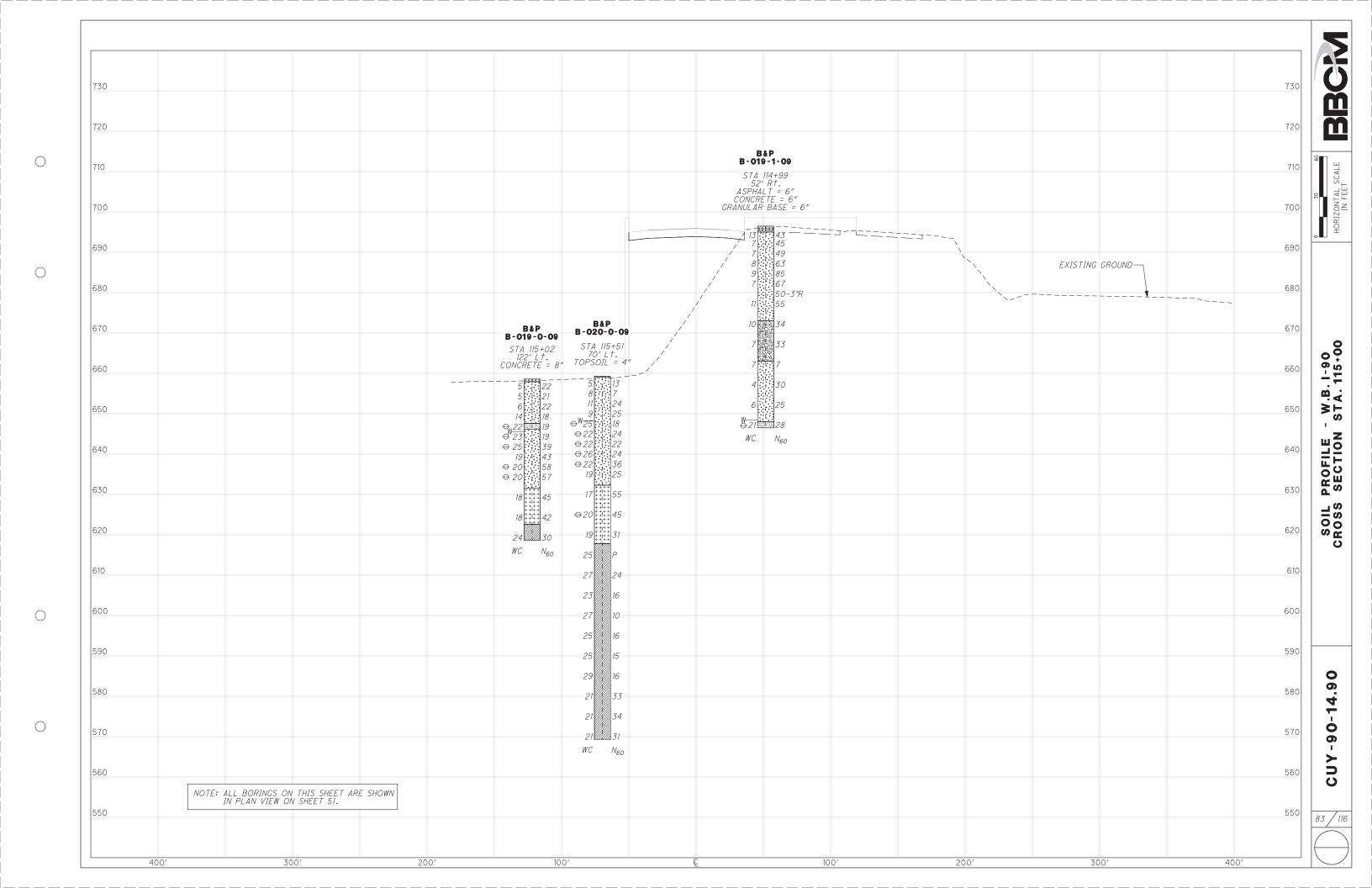
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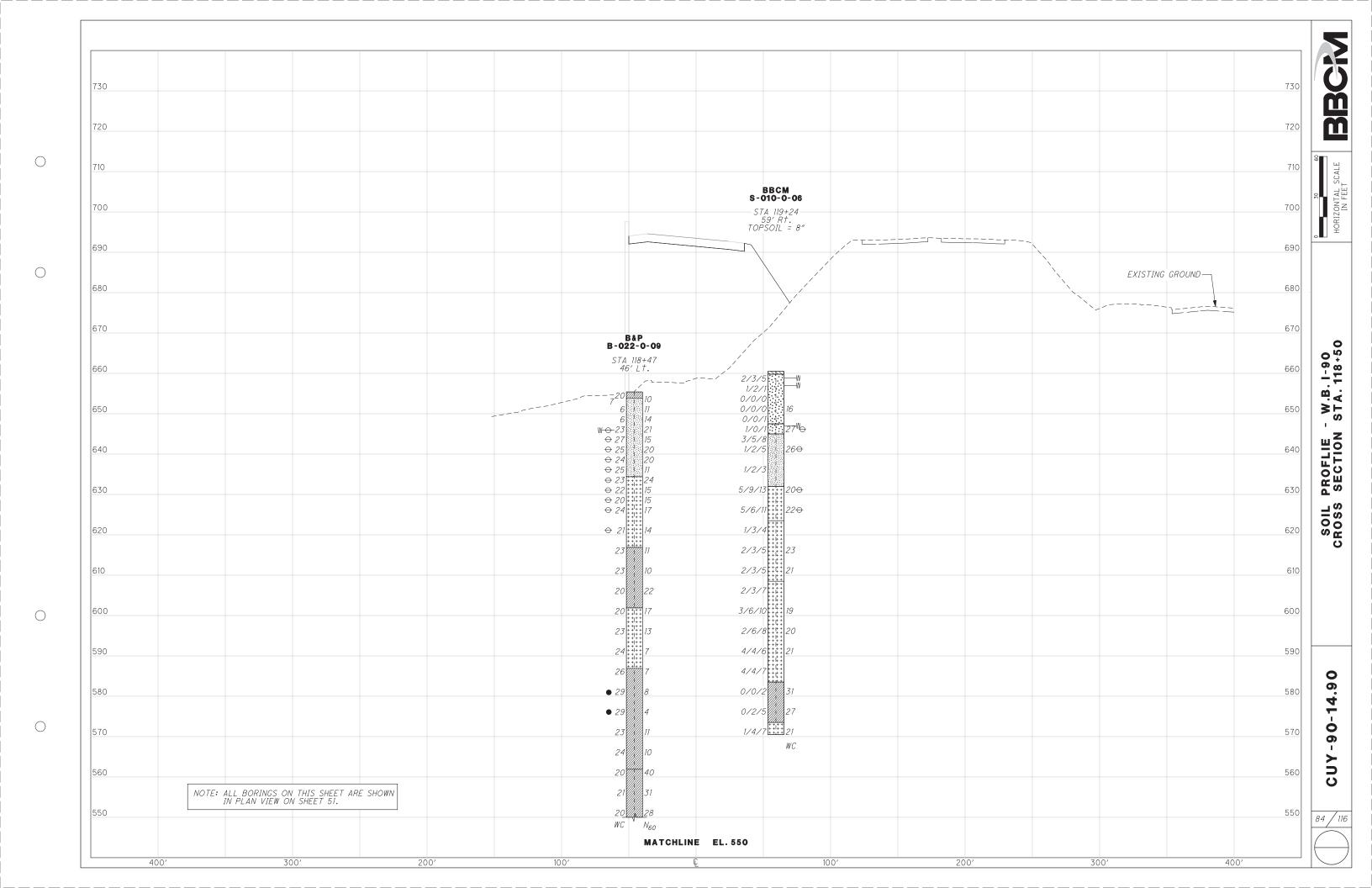
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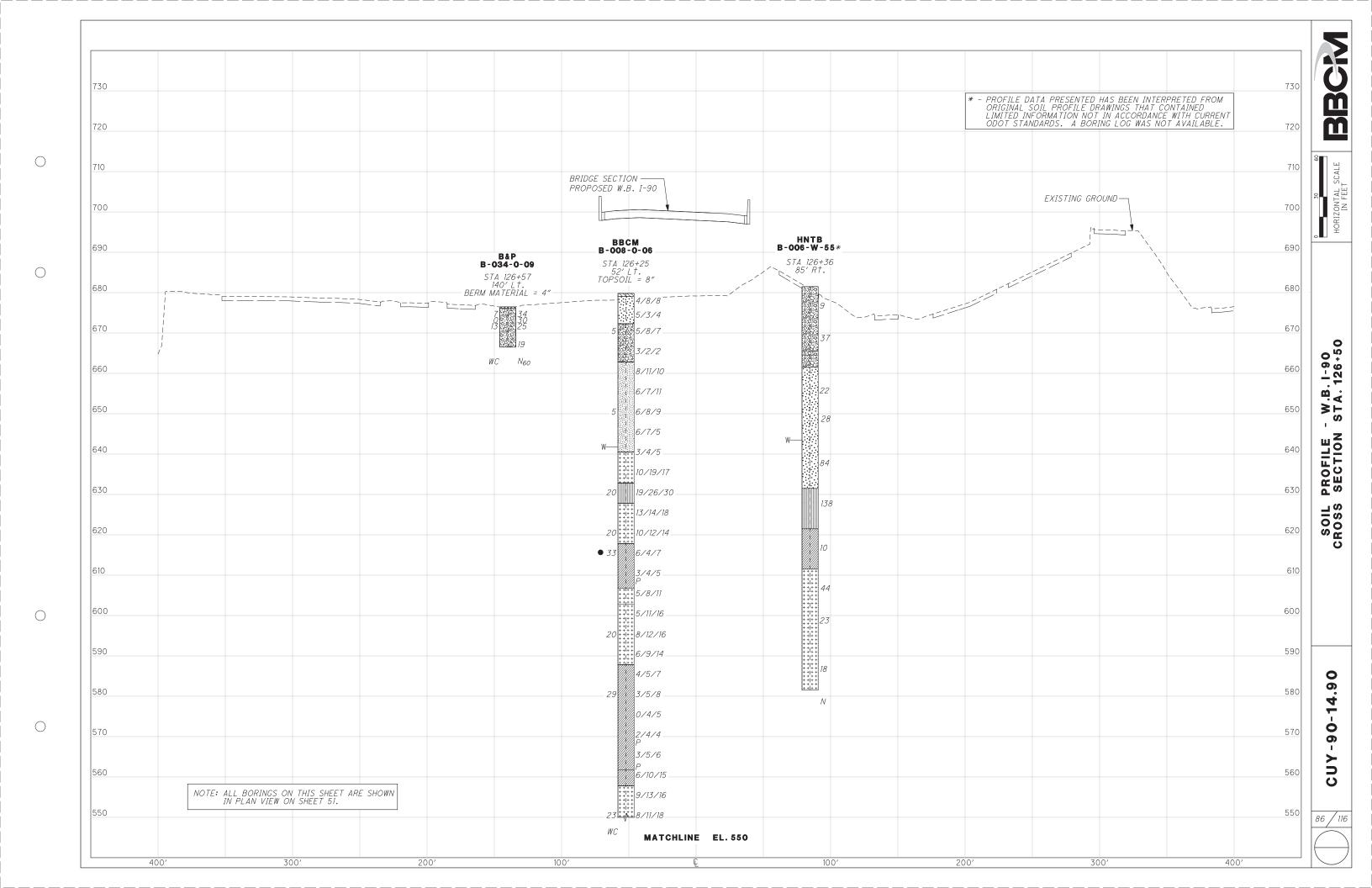




		MATCHLINE	EL. 550		
F.O.		B-022-0-09			550
50					550
		20 31			
40		21 28			540
		21 25			
30		23 24			530
		22 26			
20		24 21			520
		23 21			
10		22			510
					310
		24 21			
00		24 21			500
		24 21			
90		10			490
		12 113			
80		TR—11 23/39/50-4″1	?		480
70					470
60					460
00		TR—11 23/39/50-4"1			400
50		WC 1/60			450
40					440
30					430
20					420
10					410
10					410
00					400
90					390
80					380
70					370
					310

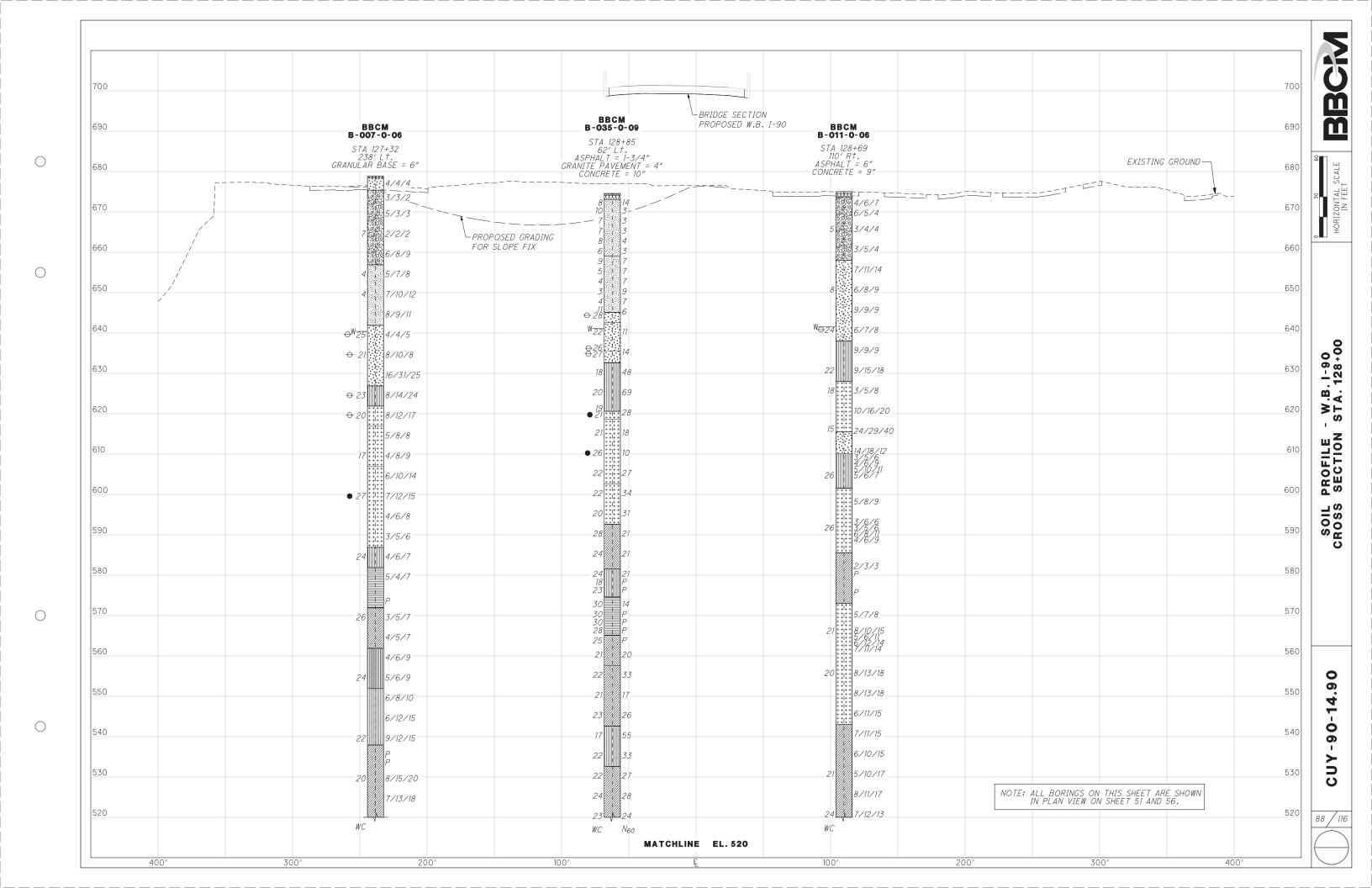
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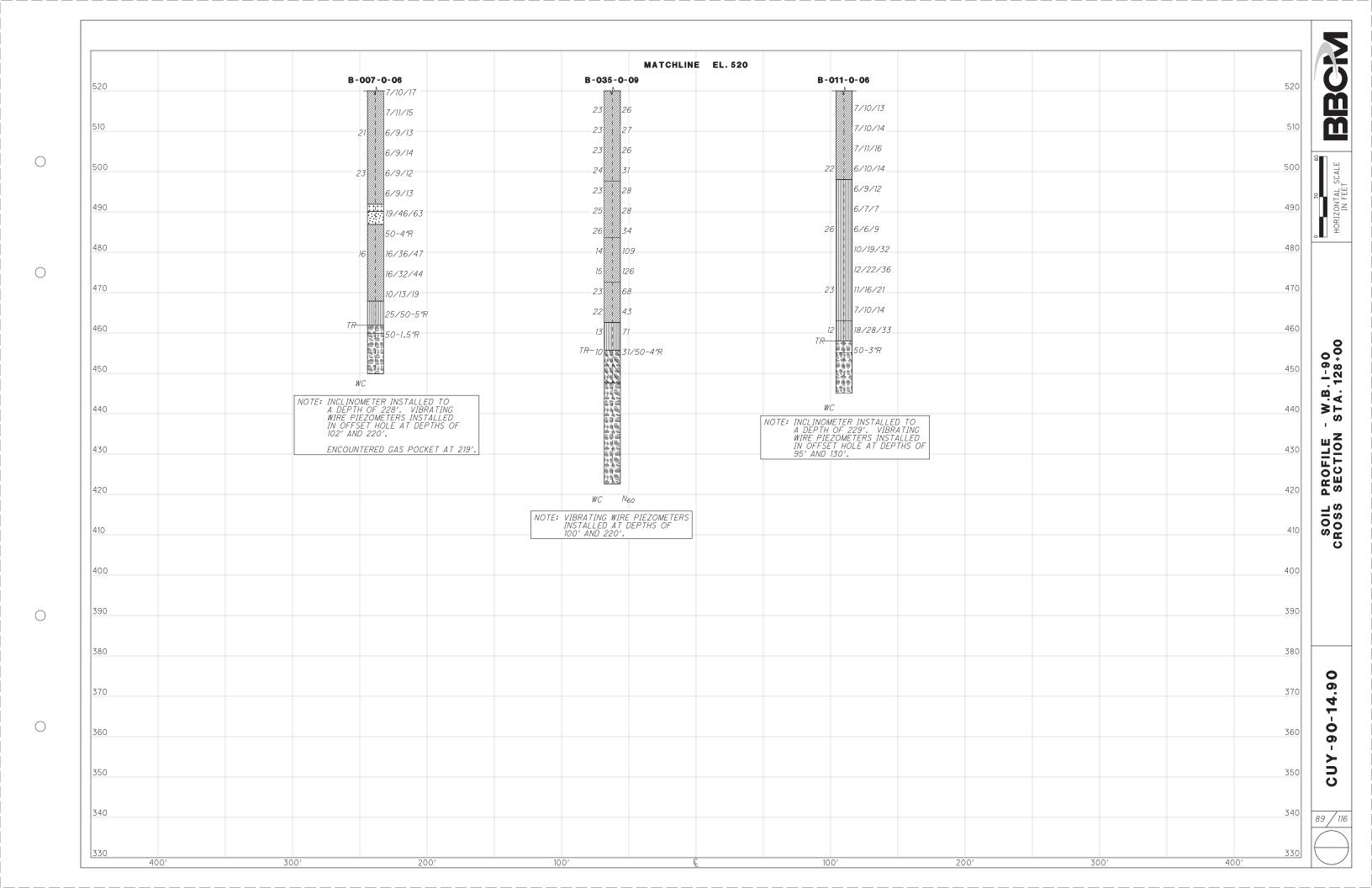
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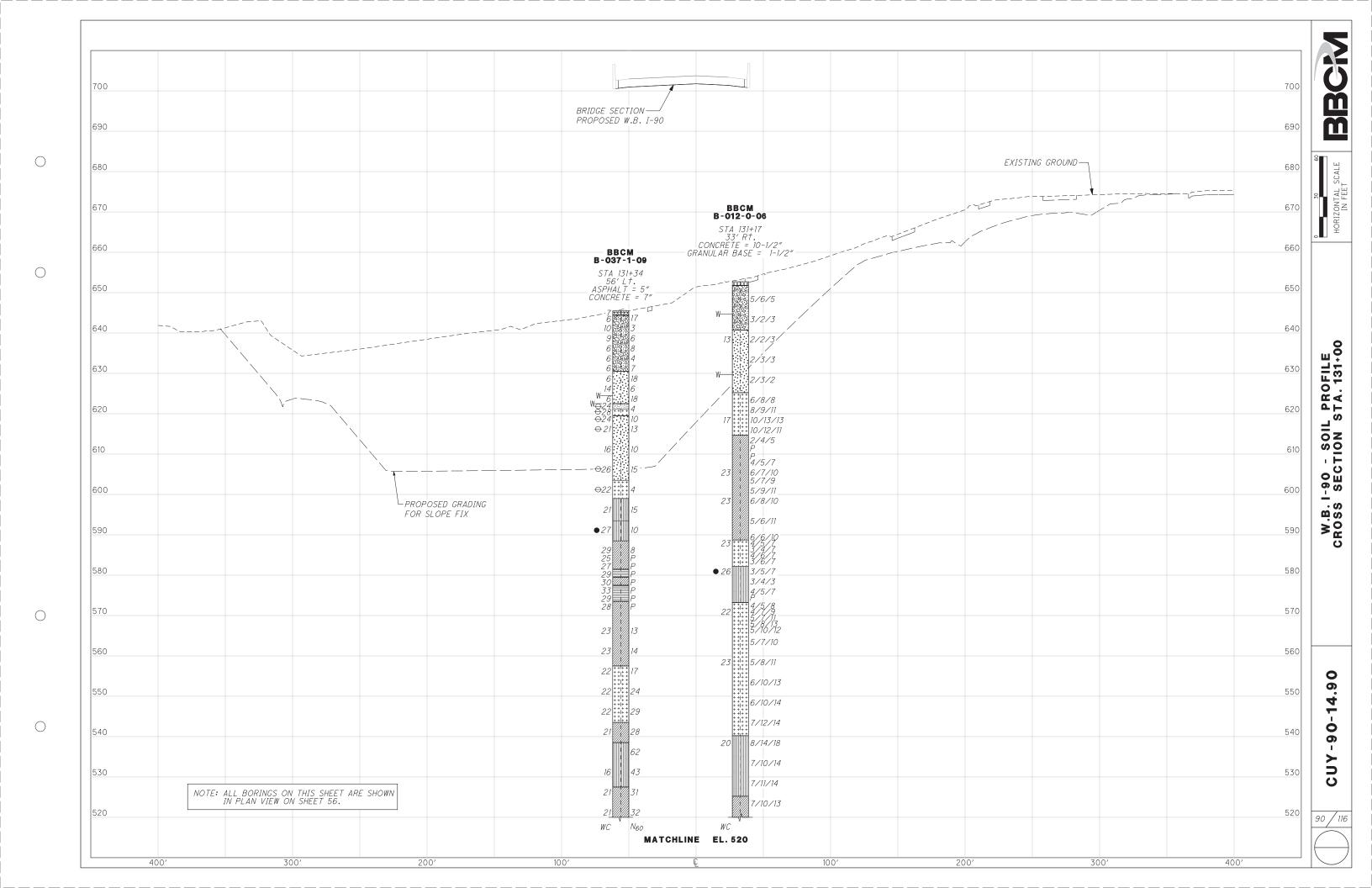


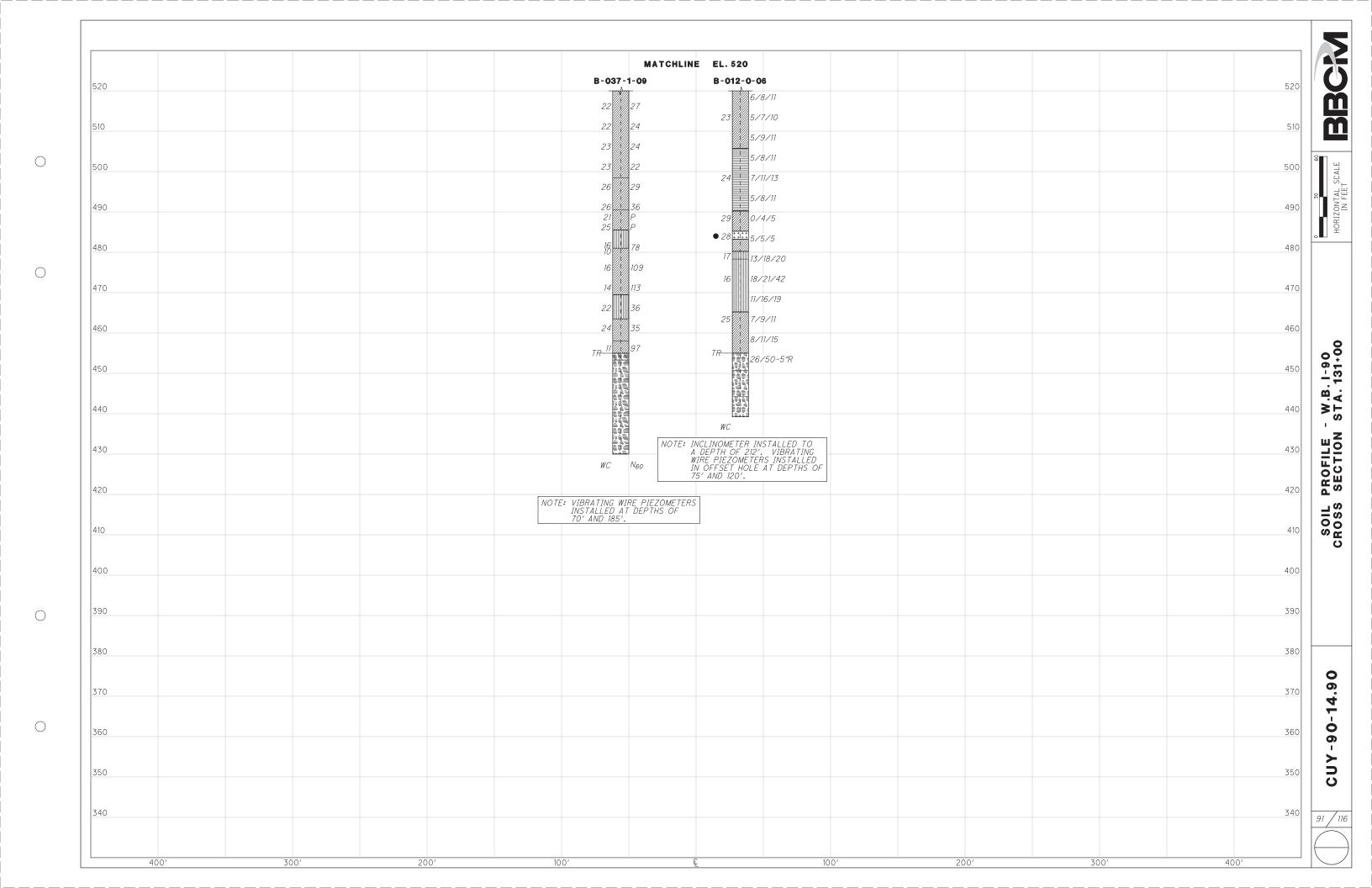
			MATCHLINE EL. 550				
:50		B-0	008-0-06				550
550			1 + + + + + + + + + + + + + + + + + + +				550
- 40			+ + + + + 7/9/13 + + + + + + + + + + + + + + + + + + +				550 540
540			7/9/13 7/11/16 7/13/19				540
F.7.0		16					6
530			6/9/13				530
-20		23	6/11/13				F20
520			5/9/12				520
740			6/10/16				540
510		23	7/11/16				510
			6/8/12				
500		23	6/11/13				500
			8/12/15				
190		• 22	11/17/29				490
			COBBLES				480
180			21/42/50-5″R				480
		24	15/26/32				
170			9/14/15				470
		TR-	26/37/50-5"R				
460			50-2"R				460
			26/37/50-5"R ====================================				460
450							450
		WC					
440		NOTE: INC. INC.	TTER INCTALLED TO A				440
		NOTE: INCLINOME DEPTH OF PIFZOMFT	228'. VIBRATING WIRE FRS INSTALLED TO A FRS INSTALLED TO A				
430		OFFSET H 65.5' AND	ETER INSTALLED TO A 228'. VIBRATING WIRE ERS INSTALLED IN OLE AT DEPTHS OF 110.5'.				430
120							420
110							410
400							400
390							390
380							380
370							370
400′	300′	200' 100'	Ĺ	100′	200′	300′	400′

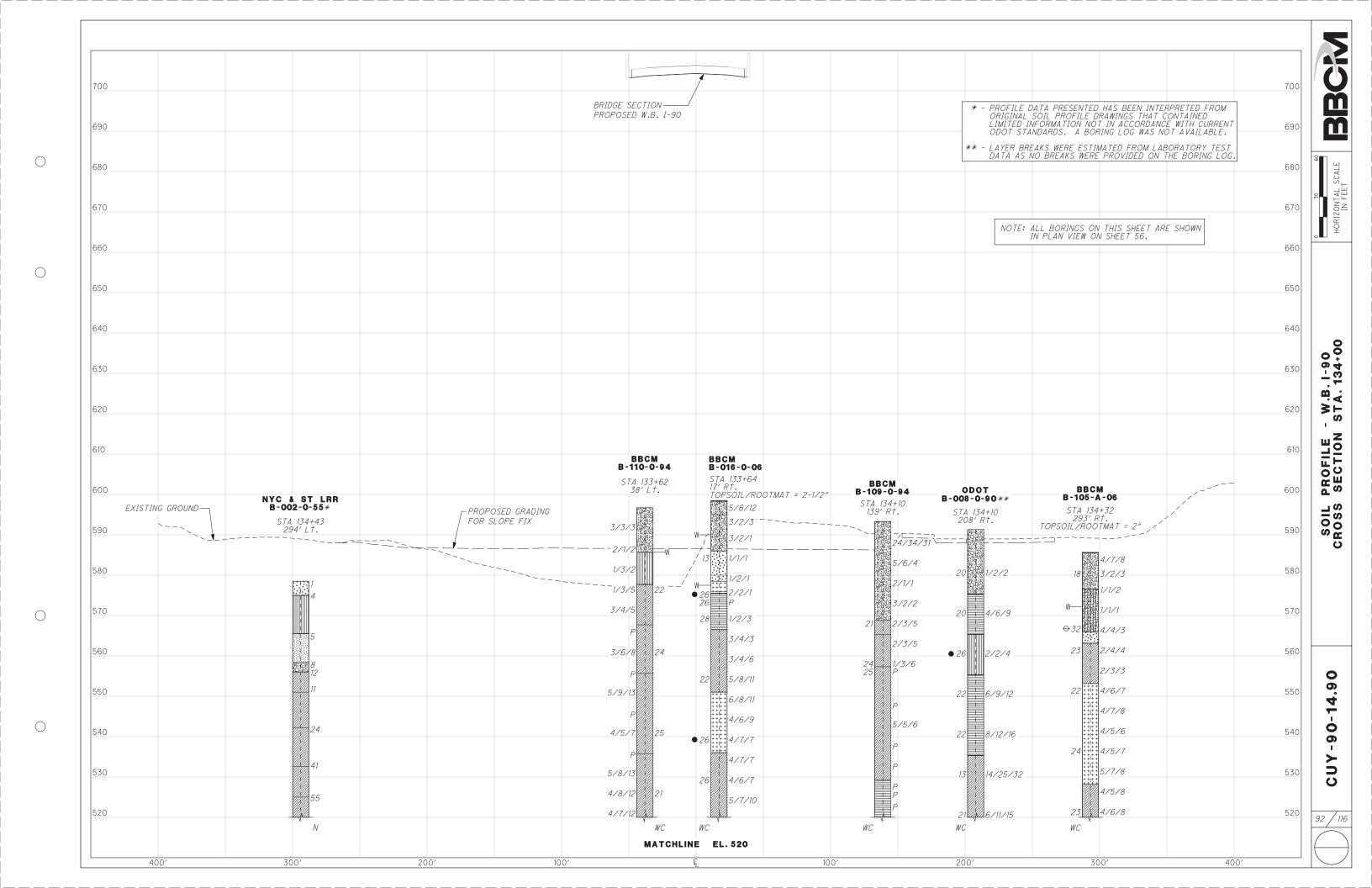
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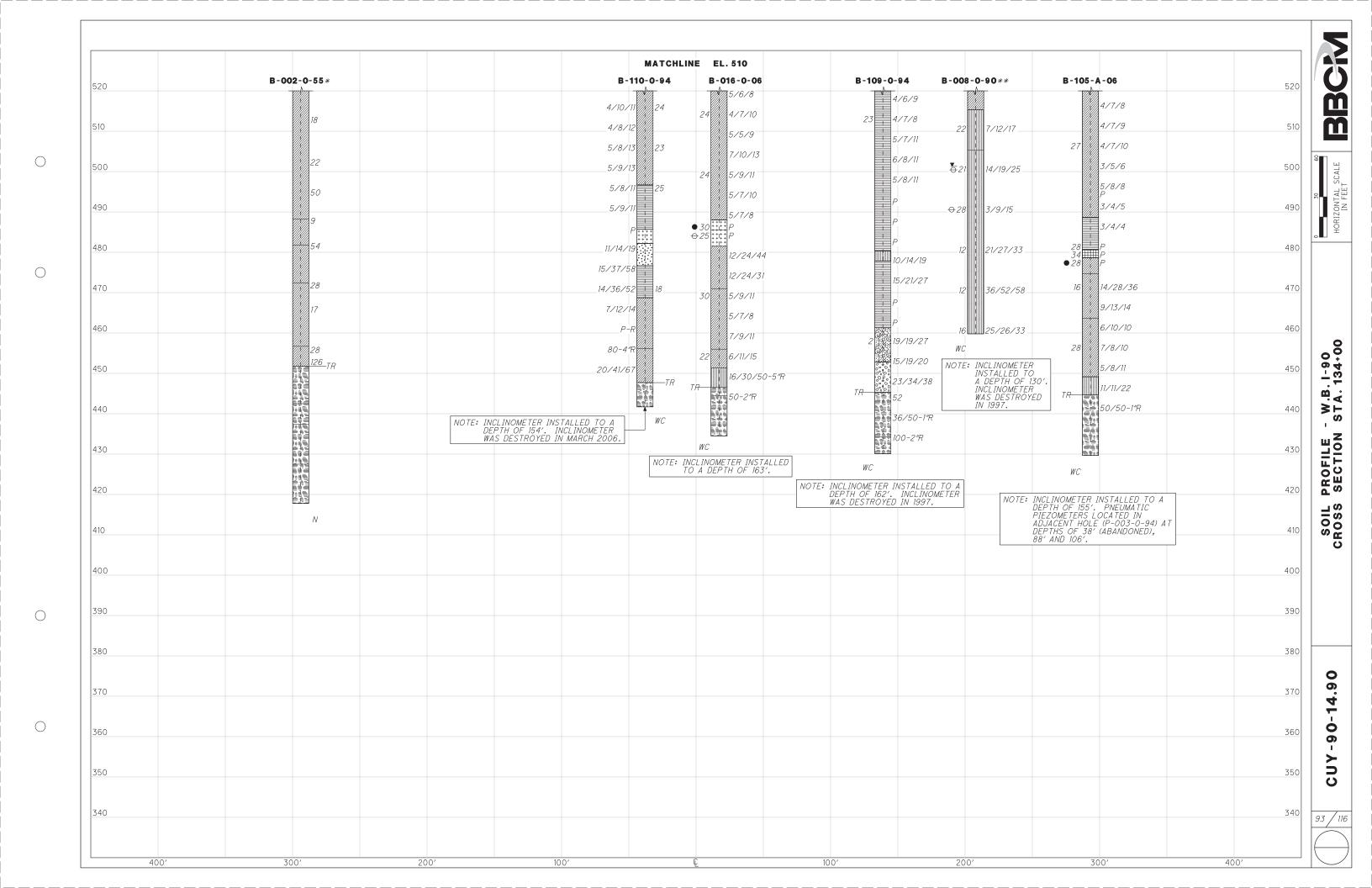


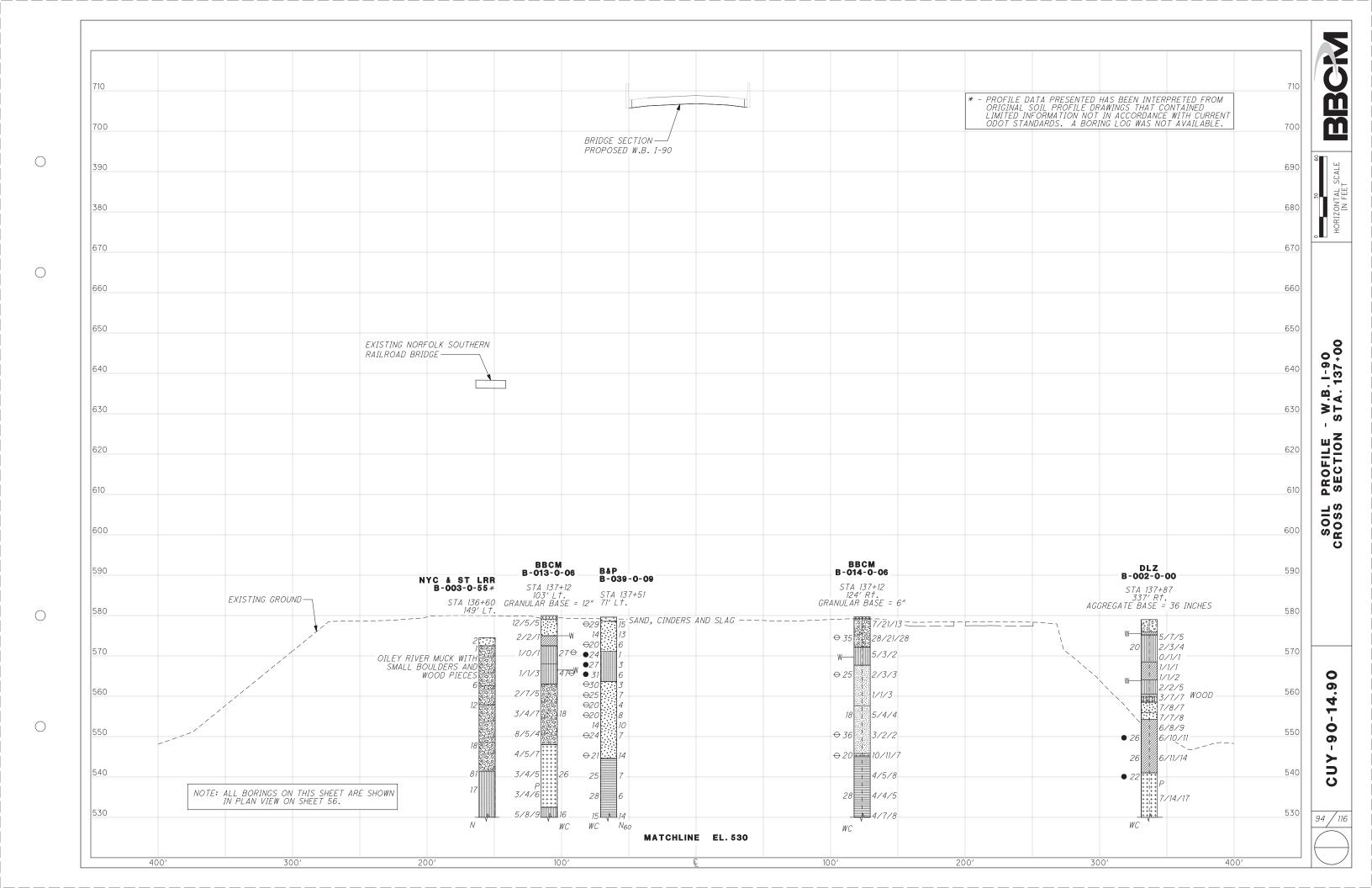


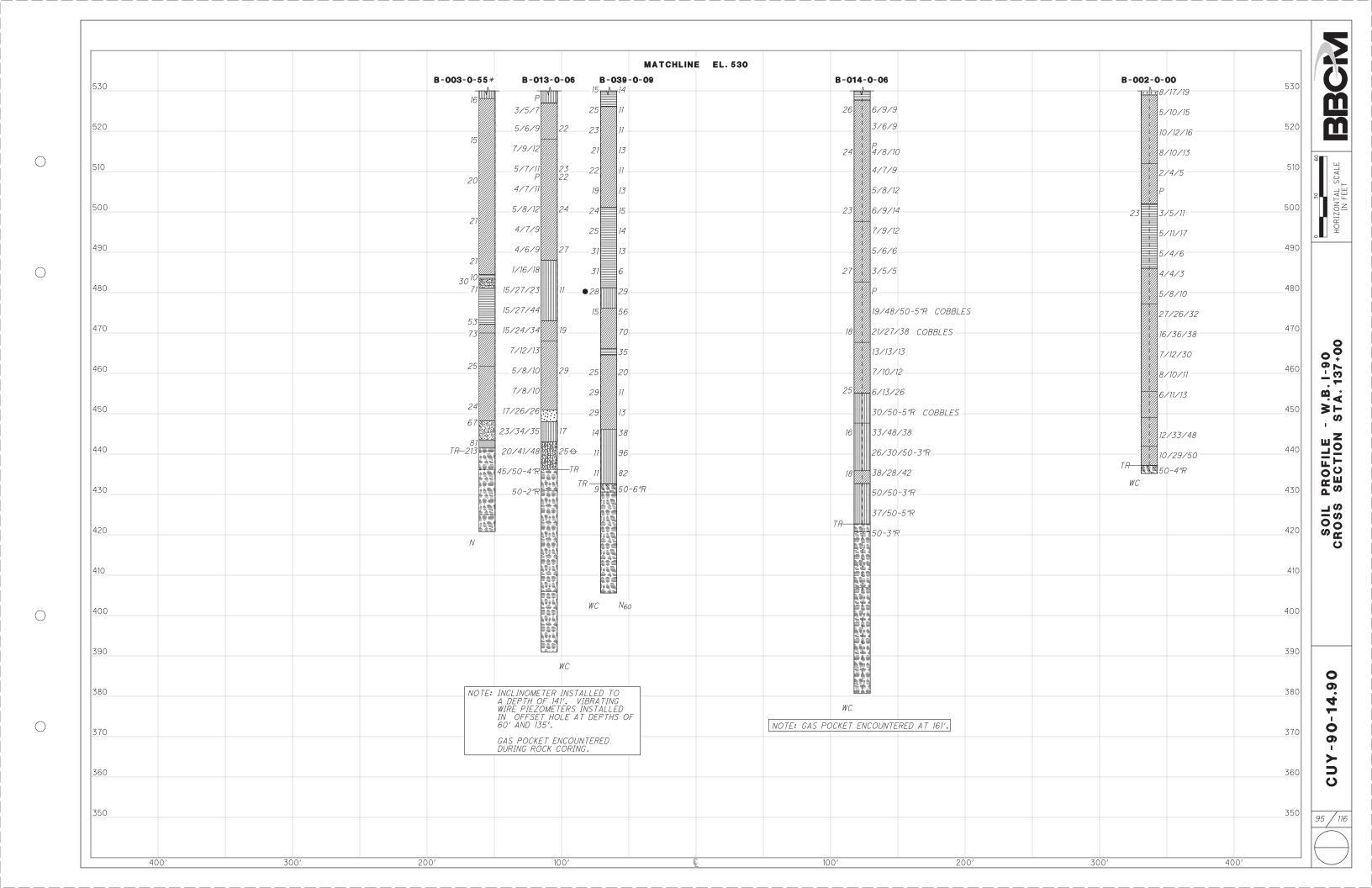


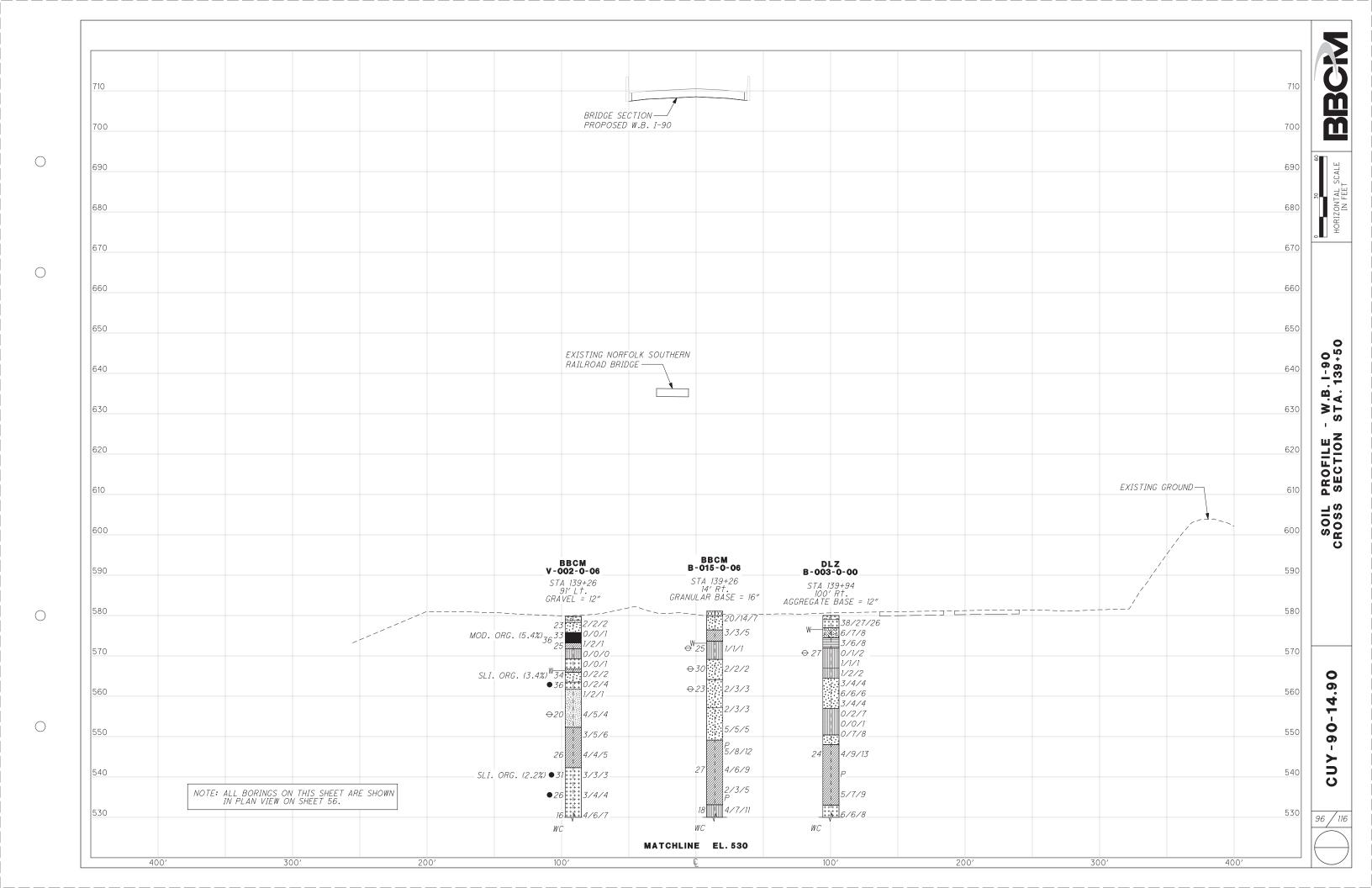








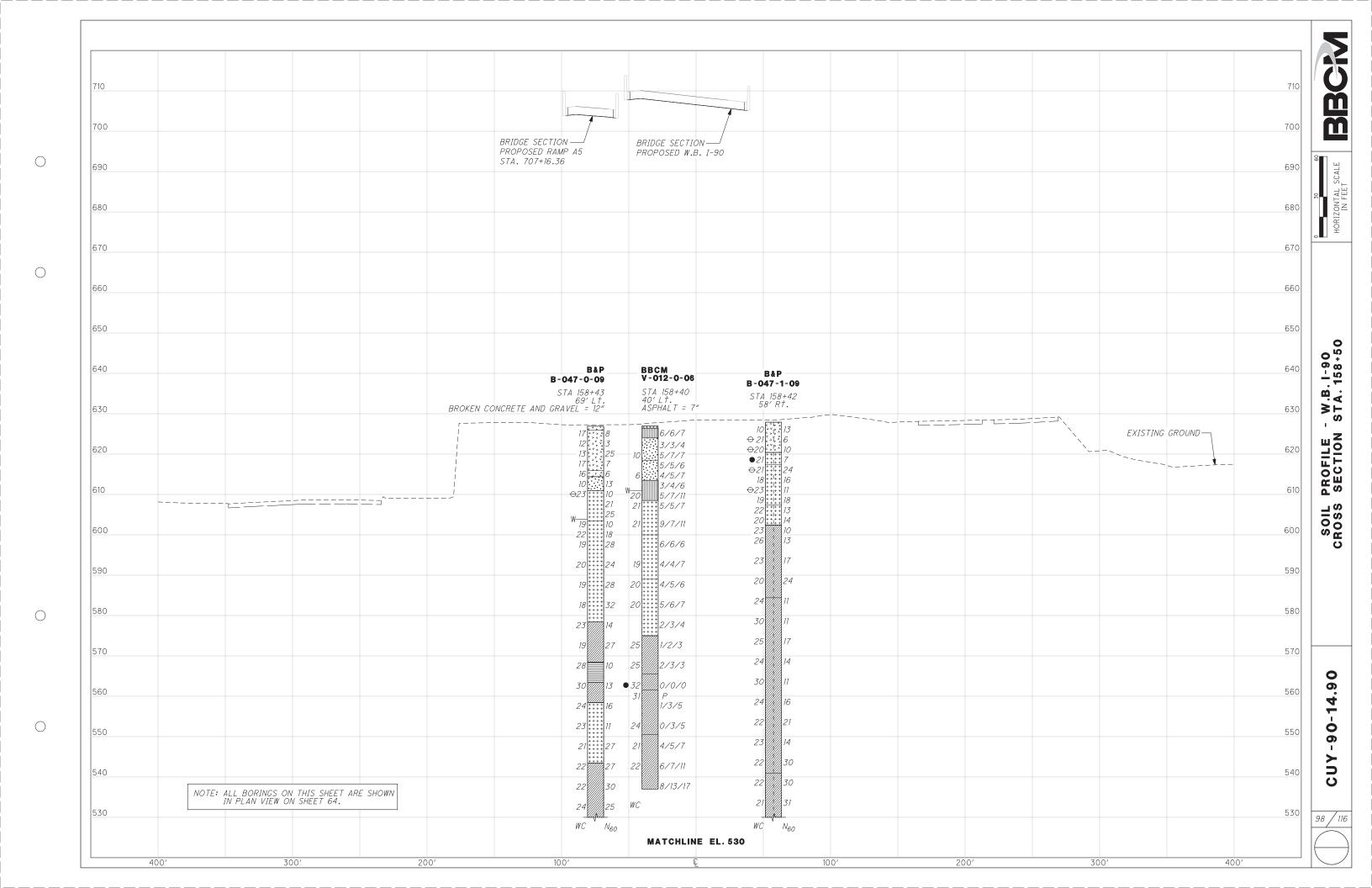




10	
120 120	53
22	
1	E.
100	52
12 1/36	
	51
1	
100	50
### ##################################	
100	4.0
190	49
8	
### 15	48
8 3.78.39 8 5.72.21 8 5.72.21 8 5.72.21 8 7.73.25 8 7.73	
10 10 10 10 10 10 10 10	47
## ## ## ## ## ## ## ## ## ## ## ## ##	
420 440 440 450 4778/475 470 470 470 470 470 470 470 470 470 470	46
6-3	40
22	
443	45
410	
420	44
420	
20 88/35/46 420 420 420 420 430 440 440 450 46/33/43 400 460 470 470 470 470 470 470 470 470 470 47	47
420 33/33/39 18/33/43 18/33	43
10 15 18 18 18 18 18 18 18 18 18 18 18 18 18	
400 400 390 380 380 360	42
400 400 390 390 370 ################################	
400 FAST STATE OF THE PAST STA	41
400 FAR STATE OF THE PROPERTY	
360 WC	40
360 WC	40
360 WC	
360 WC	39
360 WC	
360 WC	38
360 WC	
360 WC	37
360 WC	
NOTE: GAS POCKET ENCOUNTERED DURING ROCK CORING.	36
350	35

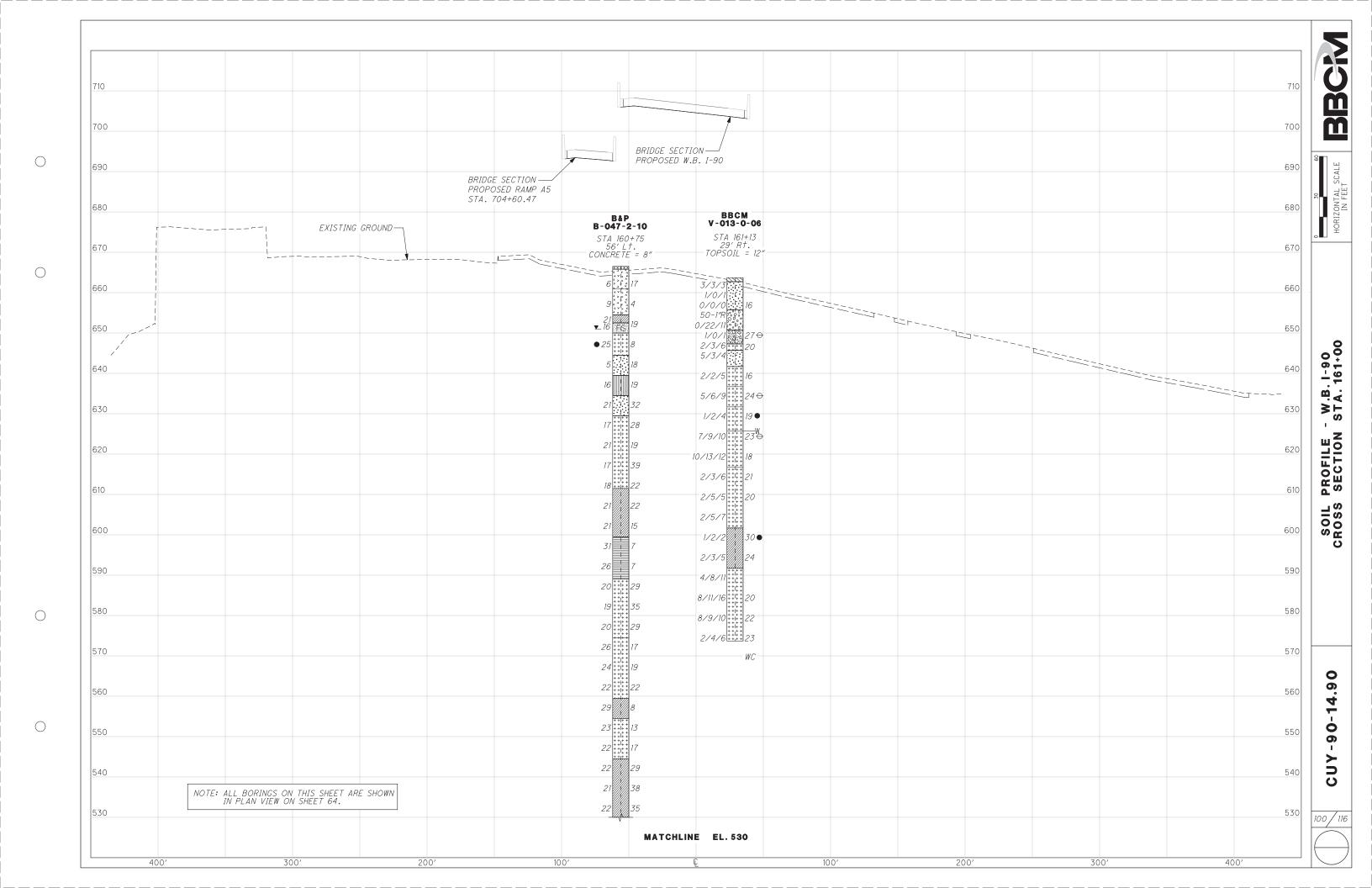
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			MATCHLINE EL. 530			
530		B-047-0-09	B-047-1-09 26			530
		24 32 23 23	19 25			
520		23 23 23 34	27			520
510		19 38	21 35			510
		20 34	21 37			510
500		20 34	21 32			500
		22	18 35			
90		17 45	22 32 32 24 331			490
		27 ////28 WC N ₆₀	29 21			
80			23 23			480
70			• 26 · · · · · 24			470
			12 107			
60			23 117			460
			131 22 29 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			
50			● 21 1111 65 TR 13 109			450
			9E = 40/50-4"R			
40			50-2"R WC N ₆₀			440
30			WC N ₆₀			450 450 440 430
20						420
10						410
00						400
90						390
						330
80						380
70						370
60						360
50						350
50						350
400′	300′ 200′	100′	<u>C</u> 100′	200′	300′	400′

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30	MATCHLINE EL. 530 B-047-0-09	530
30	22 38	530
20	25 29 26 32	520
10	18 / 47 18 / 49	510
00	21 33	500
	20 29 22 46	400
90	23 31	490
80	28 14 28 14	480
70	● 28 ::::: 10 12 81	470
60	12 89	460
50	20 83 12 107	450
50	19 74	450
40	19 74 14 : 11: 90 8 : 11: 103 17 72 120 7R 19 1 107	440
30	17 3 120 TR	430
20		420
10	WC N ₆₀	410
		410
00		400
90		390
30		380
70		370
60		360
50		350

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