

REFERENCE: I-2513AC

PROJECT: 34165

CONTENTS

<u>SHEET NO.</u>	<u>DESCRIPTION</u>
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STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

STRUCTURE
SUBSURFACE INVESTIGATION

COUNTY BUNCOMBE
PROJECT DESCRIPTION I-26 CONNECTOR (I-40 TO
US 19 – US 23 – US 70 NORTH TO ASHEVILLE)
SITE DESCRIPTION NOISE WALL NO. 68 FROM
STA. 9+40 –NW68– (STA. 18+73.09 –Y3RPD–, 127.03’ LT)
TO STA. 30+55.00 –NW68– (STA. 108+50.06 –L–, 77’ RT)

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	I-2513AC	1	20

CAUTION NOTICE

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WERE MADE FOR THE PURPOSE OF STUDY, PLANNING AND DESIGN, AND NOT FOR CONSTRUCTION OR PAY PURPOSES. THE VARIOUS FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA AVAILABLE MAY BE REVIEWED OR INSPECTED IN RALEIGH BY CONTACTING THE N. C. DEPARTMENT OF TRANSPORTATION, GEOTECHNICAL ENGINEERING UNIT, AT (919) 707-6850. THE SUBSURFACE PLANS AND REPORTS, FIELD BORING LOGS, ROCK CORES AND SOIL TEST DATA ARE NOT PART OF THE CONTRACT.

GENERAL SOIL AND ROCK STRATA DESCRIPTIONS AND INDICATED BOUNDARIES ARE BASED ON A GEOTECHNICAL INTERPRETATION OF ALL AVAILABLE SUBSURFACE DATA AND MAY NOT NECESSARILY REFLECT THE ACTUAL SUBSURFACE CONDITIONS BETWEEN BORINGS OR BETWEEN SAMPLED STRATA WITHIN THE BOREHOLE. THE LABORATORY SAMPLE DATA AND THE IN SITU (IN-PLACE) TEST DATA CAN BE RELIED ON ONLY TO THE DEGREE OF RELIABILITY INHERENT IN THE STANDARD TEST METHOD. THE OBSERVED WATER LEVELS OR SOIL MOISTURE CONDITIONS INDICATED IN THE SUBSURFACE INVESTIGATIONS ARE AS RECORDED AT THE TIME OF THE INVESTIGATION. THESE WATER LEVELS OR SOIL MOISTURE CONDITIONS MAY VARY CONSIDERABLY WITH TIME ACCORDING TO CLIMATIC CONDITIONS INCLUDING TEMPERATURES, PRECIPITATION AND WIND, AS WELL AS OTHER NON-CLIMATIC FACTORS.

THE BIDDER OR CONTRACTOR IS CAUTIONED THAT DETAILS SHOWN ON THE SUBSURFACE PLANS ARE PRELIMINARY ONLY AND IN MANY CASES THE FINAL DESIGN DETAILS ARE DIFFERENT. FOR BIDDING AND CONSTRUCTION PURPOSES, REFER TO THE CONSTRUCTION PLANS AND DOCUMENTS FOR FINAL DESIGN INFORMATION ON THIS PROJECT. THE DEPARTMENT DOES NOT WARRANT OR GUARANTEE THE SUFFICIENCY OR ACCURACY OF THE INVESTIGATION MADE, NOR THE INTERPRETATIONS MADE, OR OPINION OF THE DEPARTMENT AS TO THE TYPE OF MATERIALS AND CONDITIONS TO BE ENCOUNTERED. THE BIDDER OR CONTRACTOR IS CAUTIONED TO PERFORM INDEPENDENT SUBSURFACE INVESTIGATIONS AND MAKE INTERPRETATIONS AS NECESSARY TO CONFIRM CONDITIONS ENCOUNTERED ON THE PROJECT. THE CONTRACTOR SHALL HAVE NO CLAIM FOR ADDITIONAL COMPENSATION OR FOR AN EXTENSION OF TIME FOR ANY REASON RESULTING FROM THE ACTUAL CONDITIONS ENCOUNTERED AT THE SITE DIFFERING FROM THOSE INDICATED IN THE SUBSURFACE INFORMATION.

- NOTES:
- THE INFORMATION CONTAINED HEREIN IS NOT IMPLIED OR GUARANTEED BY THE N. C. DEPARTMENT OF TRANSPORTATION AS ACCURATE NOR IS IT CONSIDERED PART OF THE PLANS, SPECIFICATIONS OR CONTRACT FOR THE PROJECT.
 - BY HAVING REQUESTED THIS INFORMATION, THE CONTRACTOR SPECIFICALLY WAIVES ANY CLAIMS FOR INCREASED COMPENSATION OR EXTENSION OF TIME BASED ON DIFFERENCES BETWEEN THE CONDITIONS INDICATED HEREIN AND THE ACTUAL CONDITIONS AT THE PROJECT SITE.

	PERSONNEL
	<u>MARPLES, Z. J.</u>
	<u>TURNAGE, J. R.</u>
	<u>OXENDINE, J.</u>
INVESTIGATED BY	<u>MARPLES, Z. J.</u>
DRAWN BY	<u>FIELDS, W. D.</u>
CHECKED BY	<u>RIGGS, Jr., A. F.</u>
SUBMITTED BY	<u>TERRACON CONSULTANTS</u>
DATE	<u>JUNE 2026</u>

Prepared in the Office of:



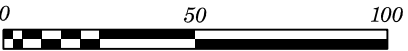
3150 SPRING FOREST ROAD, SUITE 100
RALEIGH, NORTH CAROLINA 27616
NC REGISTERED ENGINEERING FIRM E-0869
NC REGISTERED GEOLOGIC FIRM C-367

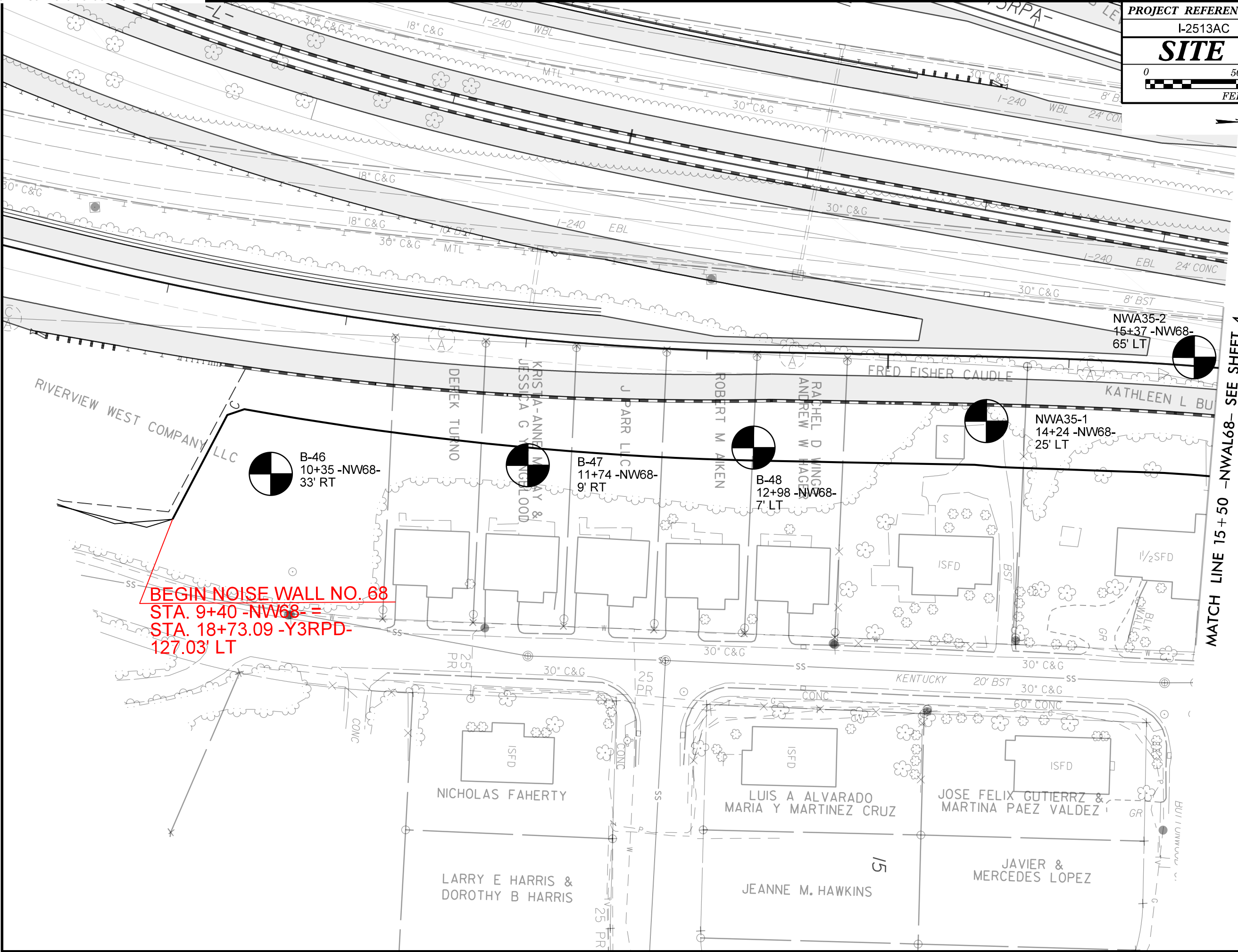


DocuSigned by:
Abner Riggs Jr. 7/22/2026
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SIGNATURE DATE

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

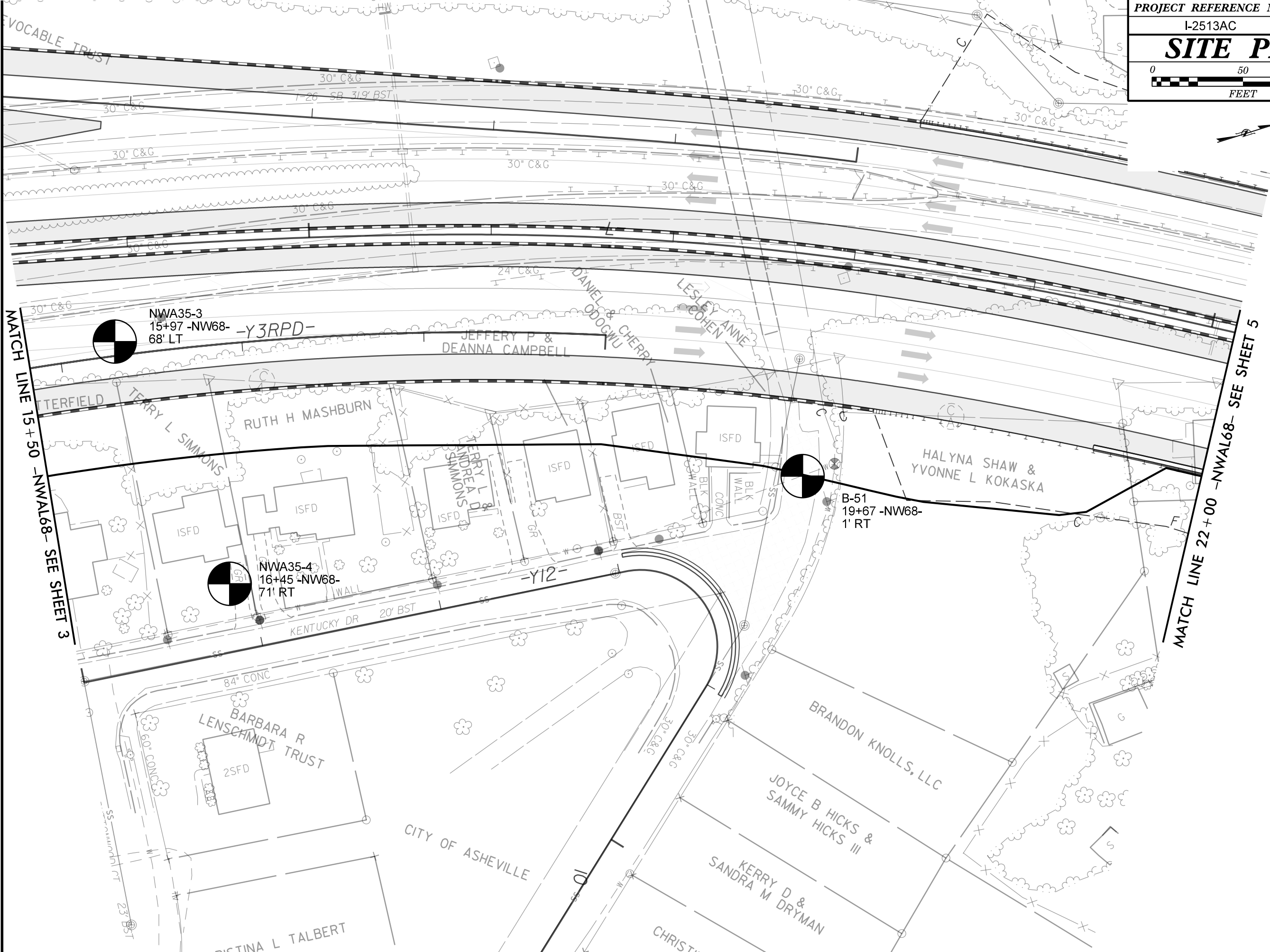
SOIL DESCRIPTION																			
SOIL IS CONSIDERED UNCONSOLIDATED, SEMI-CONSOLIDATED, OR WEATHERED EARTH MATERIALS THAT CAN BE PENETRATED WITH A CONTINUOUS FLIGHT POWER AUGER AND YIELD LESS THAN 100 BLOWS PER FOOT ACCORDING TO THE STANDARD PENETRATION TEST (AASHTO T-208; ASTM D1586). SOIL CLASSIFICATION IS BASED ON THE AASHTO SYSTEM. BASIC DESCRIPTIONS GENERALLY INCLUDE THE FOLLOWING: CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO CLASSIFICATION, AND OTHER PERTINENT FACTORS SUCH AS MINERALOGICAL COMPOSITION, ANGULARITY, STRUCTURE, PLASTICITY, ETC. FOR EXAMPLE, VERY STIFF, GRAY, SILTY CLAY, MOIST WITH INTERBEDDED FINE SAND LAYERS, HIGHLY PLASTIC, A-7-6																			
SOIL LEGEND AND AASHTO CLASSIFICATION																			
GENERAL CLASS.		GRANULAR MATERIALS (≤ 35% PASSING #200)					SILT-CLAY MATERIALS (> 35% PASSING #200)					ORGANIC MATERIALS							
GROUP CLASS.	A-1-a	A-1-b	A-3	A-2	A-2-4	A-2-5	A-2-6	A-2-7	A-4	A-5	A-6	A-7	A-1, A-2 A-3	A-4, A-5 A-6, A-7					
SYMBOL																			
% PASSING #10 #40 #200	50 MX 30 MX 15 MX	50 MX 30 MX 15 MX	51 MN 10 MX	35 MX 35 MX 35 MX	35 MX 35 MX 35 MX	35 MX 35 MX 35 MX	35 MN 36 MN 36 MN	36 MN 36 MN 36 MN	41 MN 40 MX 40 MX	41 MN 40 MX 40 MX	41 MN 40 MX 40 MX	41 MN 41 MN 41 MN	GRANULAR SOILS	SILT- CLAY SOILS	MUCK, PEAT				
MATERIAL PASSING #40 LL PI	- 6 MX	- NP	40 MX 10 MX	41 MN 10 MX	40 MX 11 MN	41 MN 11 MN	40 MX 10 MX	41 MN 10 MX	40 MX 11 MN	41 MN 11 MN	41 MN 11 MN	41 MN 11 MN	SOILS WITH LITTLE OR MODERATE AMOUNTS OF ORGANIC MATTER		HIGHLY ORGANIC SOILS				
GROUP INDEX	0	0	0	4 MX	8 MX	12 MX	16 MX	NO MX											
USUAL TYPES OF MAJOR MATERIALS	STONE FRAGS, GRAVEL, AND SAND	FINE SAND	SILTY OR CLAYEY GRAVEL AND SAND	SILTY SOILS	CLAYEY SOILS														
GEN. RATING AS SUBGRADE	EXCELLENT TO GOOD					FAIR TO POOR					FAIR TO POOR	POOR	UNSUITABLE						
PI OF A-7-5 SUBGROUP IS ≤ LL - 30 ; PI OF A-7-6 SUBGROUP IS > LL - 30																			
CONSISTENCY OR DENSENESS																			
PRIMARY SOIL TYPE		COMPACTNESS OR CONSISTENCY		RANGE OF STANDARD PENETRATION RESISTANCE (N-VALUE)				RANGE OF UNCONFINED COMPRESSIVE STRENGTH (TONS/F ²)											
GENERALLY GRANULAR MATERIAL (NON-COHESIVE)		VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE		< 4 4 TO 10 10 TO 30 30 TO 50 > 50				N/A											
GENERALLY SILT-CLAY MATERIAL (COHESIVE)		VERY SOFT MEDIUM STIFF STIFF VERY STIFF HARD		< 2 2 TO 4 4 TO 8 8 TO 15 15 TO 30 > 30				< 0.25 0.25 TO 0.5 0.5 TO 1.0 1 TO 2 2 TO 4 > 4											
TEXTURE OR GRAIN SIZE																			
U.S. STD. SIEVE SIZE OPENING (MM)		4 4.75		10 2.00		40 0.42		60 0.25		200 0.075		270 0.053							
BOULDER (BLDR.)		COBBLE (COB.)		GRAVEL (GR.)		COARSE SAND (CSE, SD.)		FINE SAND (F SD.)		SILT (SL.)		CLAY (CL.)							
GRAIN SIZE		305 12 IN.		75 3		2.0		0.25		0.05		0.005							
SOIL MOISTURE - CORRELATION OF TERMS																			
SOIL MOISTURE SCALE (ATTERBERG LIMITS)		FIELD MOISTURE DESCRIPTION		GUIDE FOR FIELD MOISTURE DESCRIPTION															
LL		LIQUID LIMIT		- SATURATED - (SAT.) USUALLY LIQUID; VERY WET, USUALLY FROM BELOW THE GROUND WATER TABLE															
PL		PLASTIC LIMIT		- WET - (W) SEMISOLID; REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE															
OM		OPTIMUM MOISTURE		- MOIST - (M) SOLID; AT OR NEAR OPTIMUM MOISTURE															
SL		SHRINKAGE LIMIT		- DRY - (D) REQUIRES ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE															
PLASTICITY																			
PLASTICITY INDEX (PI)								DRY STRENGTH											
NON PLASTIC SLIGHTLY PLASTIC MODERATELY PLASTIC HIGHLY PLASTIC								0-5 6-15 16-25 26 OR MORE								VERY LOW SLIGHT MEDIUM HIGH			
COLOR																			
DESCRIPTORS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YELLOW-BROWN, BLUE-GRAY). MODIFIERS SUCH AS LIGHT, DARK, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE.																			
GRADATION																			
WELL GRADED - INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES FROM FINE TO COARSE. UNIFORMLY GRADED - INDICATES THAT SOIL PARTICLES ARE ALL APPROXIMATELY THE SAME SIZE. GAP-GRADED - INDICATES A MIXTURE OF UNIFORM PARTICLE SIZES OF TWO OR MORE SIZES.																			
ANGULARITY OF GRAINS																			
THE ANGULARITY OR ROUNDNESS OF SOIL GRAINS IS DESIGNATED BY THE TERMS: ANGULAR, SUBANGULAR, SUBROUNDED, OR ROUNDED.																			
MINERALOGICAL COMPOSITION																			
MINERAL NAMES SUCH AS QUARTZ, FELDSPAR, MICA, TALC, KAOLIN, ETC. ARE USED IN DESCRIPTIONS WHEN THEY ARE CONSIDERED OF SIGNIFICANCE.																			
COMPRESSIBILITY																			
SLIGHTLY COMPRESSIBLE LL < 31 MODERATELY COMPRESSIBLE LL = 31 - 50 HIGHLY COMPRESSIBLE LL > 50																			
PERCENTAGE OF MATERIAL																			
ORGANIC MATERIAL				GRANULAR SOILS				SILT - CLAY SOILS				OTHER MATERIAL							
TRACE OF ORGANIC MATTER				2 - 3%				3 - 5%				TRACE							
LITTLE ORGANIC MATTER				3 - 5%				5 - 12%				LITTLE							
MODERATELY ORGANIC				5 - 10%				12 - 20%				SOME							
HIGHLY ORGANIC				> 10%				> 20%				HIGHLY							
GROUND WATER																			
WATER LEVEL IN BORE HOLE IMMEDIATELY AFTER DRILLING																			
STATIC WATER LEVEL AFTER 24 HOURS																			
PERCHED WATER, SATURATED ZONE, OR WATER BEARING STRATA																			
SPRING OR SEEP																			
MISCELLANEOUS SYMBOLS																			
				ROADWAY EMBANKMENT (RE) WITH SOIL DESCRIPTION				25/025 DIP & DIP DIRECTION OF ROCK STRUCTURES											
				SOIL SYMBOL				TEST BORING											
				ARTIFICIAL FILL (AF) OTHER THAN ROADWAY EMBANKMENT															
				INFERRED SOIL BOUNDARY															

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	3
SITE PLAN	
	
FEET	

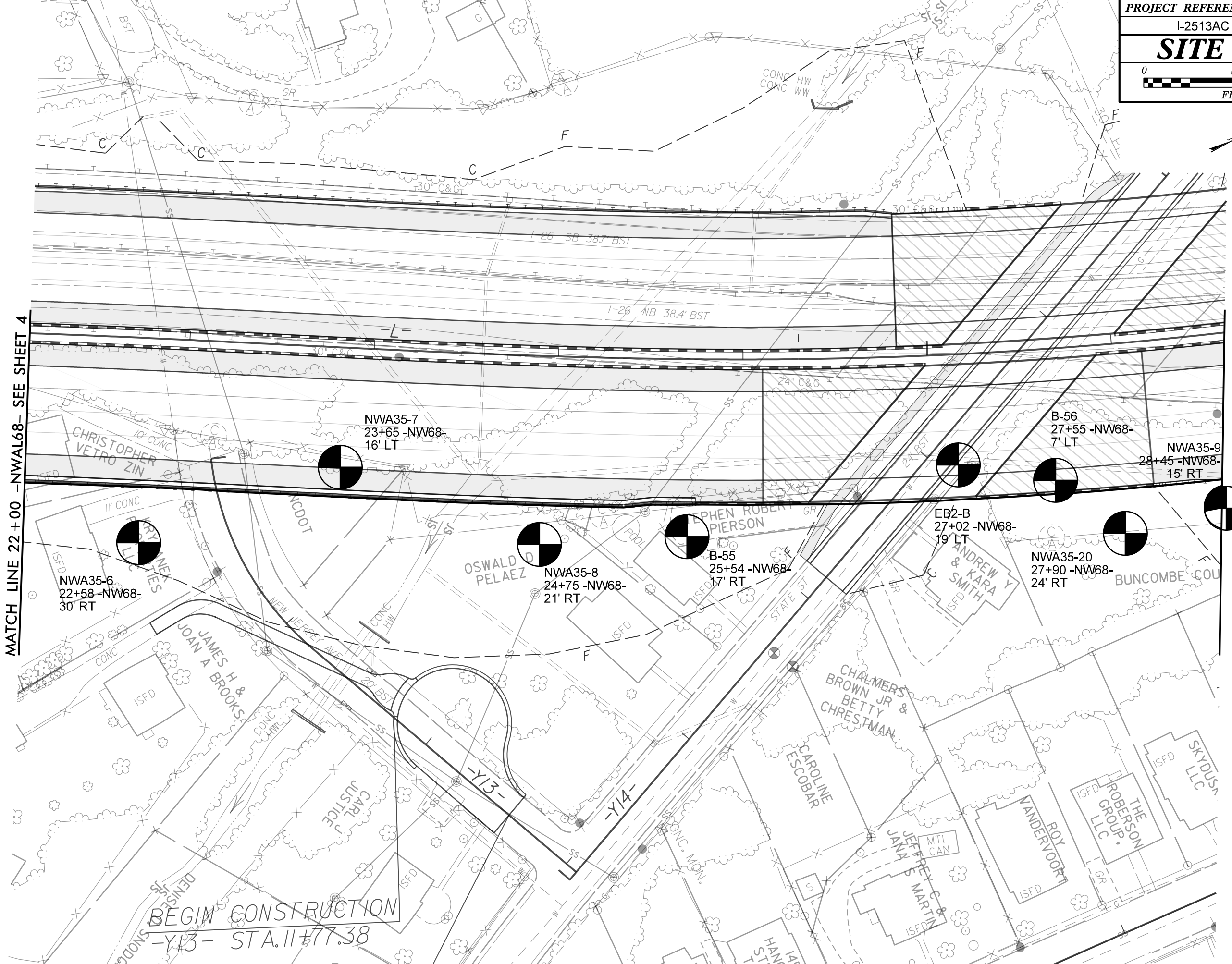


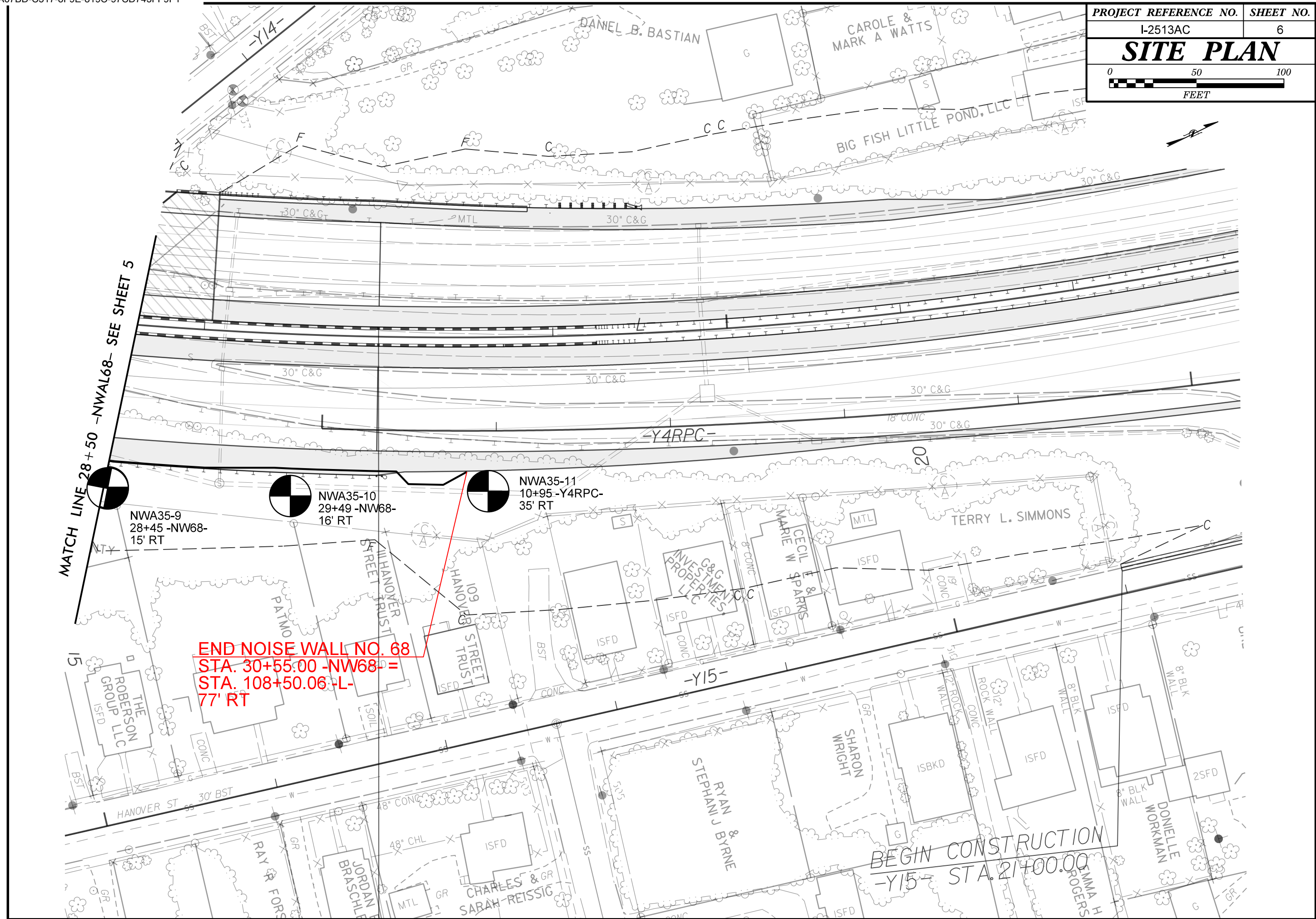
MATCH LINE 15 + 50 -NWAL68- SEE SHEET 4

PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	4
SITE PLAN	
0 50 100 FEET	

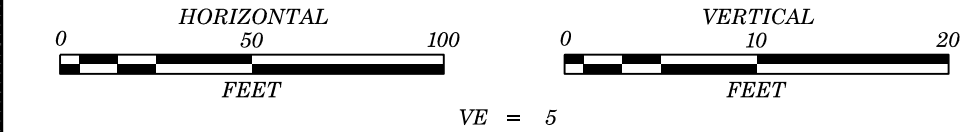


PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	5
SITE PLAN	
0 50 100 FEET	

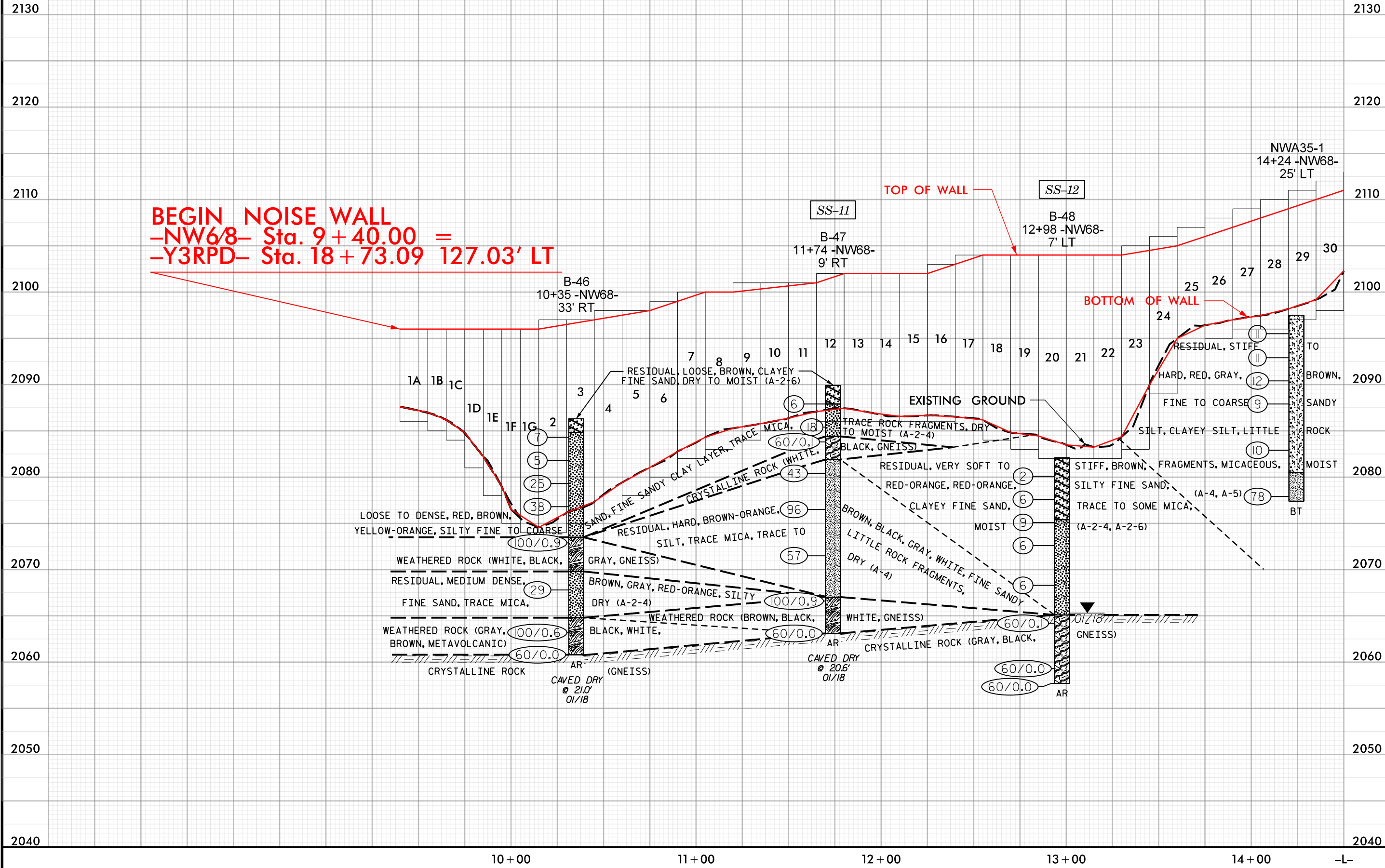




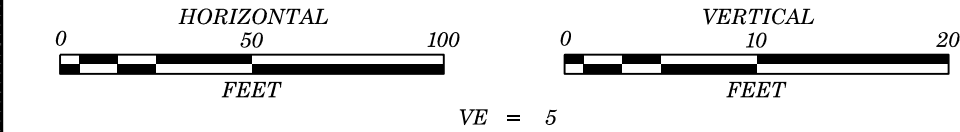
NOTE: INFERRED STRATIGRAPHY IS DRAWN THROUGH THE BORINGS WITH BOTH PROJECTED ON TO THE EXISTING GROUND PROFILE ALONG THE CENTERLINE OF -NW68- TAKEN FROM THE PROVIDED PROJECT TIN FILE i2513_ls_tin.tin DATED 05/12/2022.



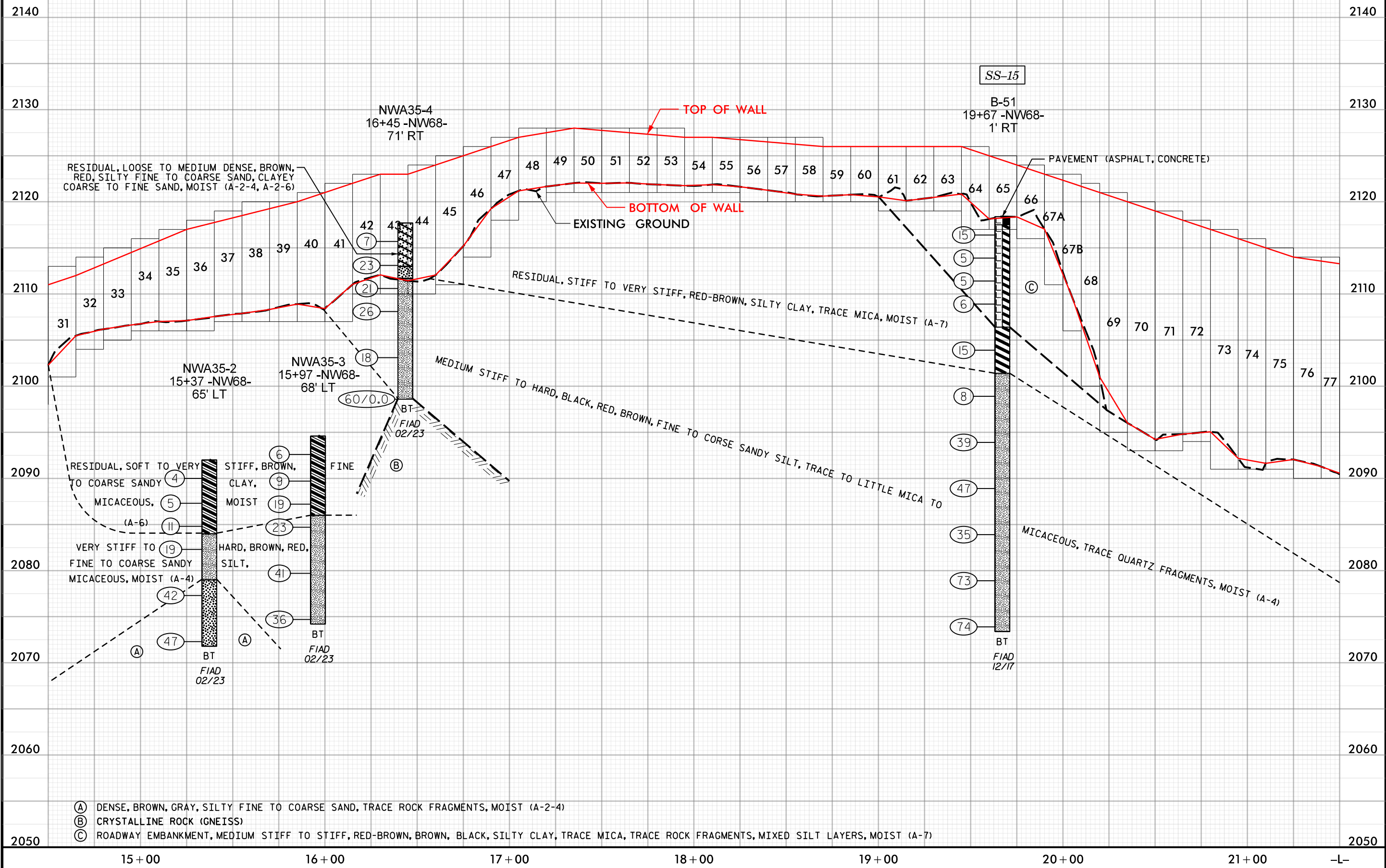
PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	7
CENTERLINE PROFILE ALONG -NW68- AT STA. 9+40 TO STA. 30+55 = STA. -Y3RPD- 18+73.09, 127' LT TO -L- STA, 108+50.06, 77' RT	

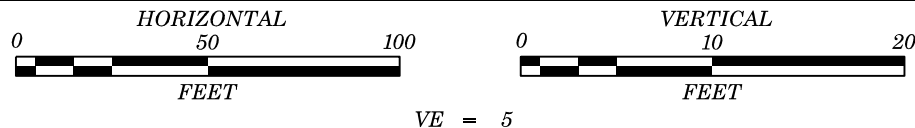


NOTE: INFERRED STRATIGRAPHY IS DRAWN THROUGH THE BORINGS WITH BOTH PROJECTED ON TO THE EXISTING GROUND PROFILE ALONG THE CENTERLINE OF -L- TAKEN FROM THE PROVIDED PROJECT TIN FILE (r2582a_ls_tin.tin).

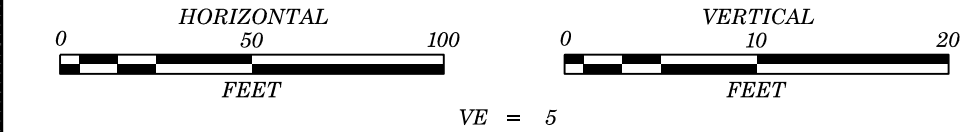


PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	8
CENTERLINE PROFILE ALONG -NW68- AT STA. 9+40 TO STA. 30+55 = STA. -Y3RPD- 18+73.09, 127' LT TO -L- STA, 108+50.06, 77' RT	

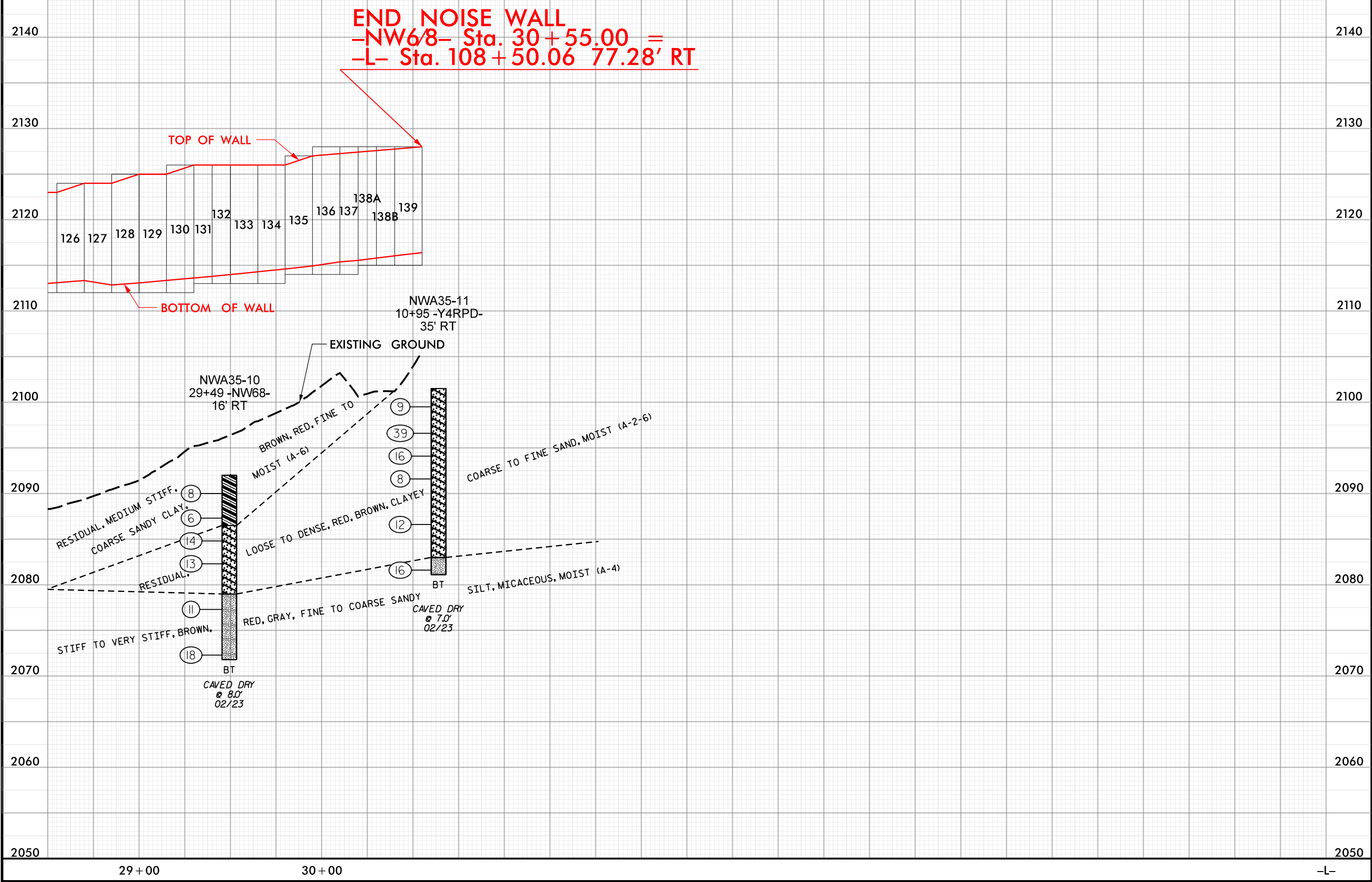




NOTE: INFERRED STRATIGRAPHY IS DRAWN THROUGH THE BORINGS WITH BOTH PROJECTED ON TO THE EXISTING GROUND PROFILE ALONG THE CENTERLINE OF -NW68- TAKEN FROM THE PROVIDED PROJECT TIN FILE i2513_ls_tin.tin DATED 05/12/2022.



PROJECT REFERENCE NO.	SHEET NO.
I-2513AC	10
CENTERLINE PROFILE ALONG -NW68- AT STA. 9+40 TO STA. 30+55 = STA. -Y3RPD- 18+73.09, 127' LT TO -L- STA, 108+50.06, 77' RT	



NCDOT BORE SINGLE I2513AC GEO SWAL WALL68.GPJ NC DOT.GDT 6/12/26

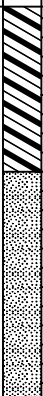
NCDOT BORE SINGLE I2513AC GEO SWAL WALL68.GPJ NC DOT.GDT 6/12/26

GEOTECHNICAL BORING REPORT
BORE LOG

WBS 34165.1.6			TIP I-2513AC			COUNTY BUNCOMBE			GEOLOGIST MARPLES, Z. J.						
SITE DESCRIPTION NOISE WALL NO. 68 FROM STA. 9+57.85 -NW68- TO STA. 30+45.00 -NW68- ON I-26 CONNECTOR												GROUND WTR (ft)			
BORING NO. NWA35-2			STATION 15+37			OFFSET 65 ft LT			ALIGNMENT -NW68-			0 HR. Caved			
COLLAR ELEV. 2,092.0 ft			TOTAL DEPTH 20.2 ft			NORTHING 681,715			EASTING 934,141			24 HR. FIAD			
DRILL RIG/HAMMER EFF./DATE TER373 DIEDRICH D-50 93% 01/28/2022						DRILL METHOD H.S. Augers			HAMMER TYPE Automatic						
DRILLER TURNAGE, J. R.			START DATE 02/16/23			COMP. DATE 02/16/23			SURFACE WATER DEPTH N/A						
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)
2095															

NCDOT BORE SINGLE I2513AC_GEO_SWAL_WALL68.GPJ NC_DOT.GDT 6/12/26

GEOTECHNICAL BORING REPORT
BORE LOG

WBS 34165.1.6			TIP I-2513AC			COUNTY BUNCOMBE			GEOLOGIST MARPLES, Z. J.						
SITE DESCRIPTION NOISE WALL NO. 68 FROM STA. 9+57.85 -NW68- TO STA. 30+45.00 -NW68- ON I-26 CONNECTOR												GROUND WTR (ft)			
BORING NO. NWA35-3			STATION 15+97			OFFSET 68 ft LT			ALIGNMENT -NW68-			0 HR. Caved			
COLLAR ELEV. 2,094.6 ft			TOTAL DEPTH 20.4 ft			NORTHING 681,777			EASTING 934,148			24 HR. FIAD			
DRILL RIG/HAMMER EFF./DATE TER373 DIEDRICH D-50 93% 01/28/2022						DRILL METHOD H.S. Augers				HAMMER TYPE Automatic					
DRILLER TURNAGE, J. R.			START DATE 02/16/23			COMP. DATE 02/16/23			SURFACE WATER DEPTH N/A						
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)
2095															
	2,093.6	1.0												2,094.6 GROUND SURFACE 0.0	
			2	3	3							M		RESIDUAL MEDIUM STIFF TO VERY STIFF, BROWN, FINE TO COARSE SANDY CLAY, MOIST, MICACEOUS (A-6)	
2090	2,090.7	3.9	3	4	5							M			
	2,088.2	6.4	7	10	9							M			
	2,085.7	8.9	7	9	14							M			
2085														2,086.0 8.6	
												M	VERY STIFF TO HARD, BROWN, RED, FINE TO COARSE SANDY SILT, MOIST, MICACEOUS (A-4)		
	2,080.7	13.9	13	17	24							M			
2080															
	2,075.7	18.9	7	14	22							M	2,074.2 20.4		
2075														Boring Terminated at Elevation 2,074.2 ft IN RESIDUAL SANDY SILT	

NCDOT BORE SINGLE I2513AC_GEO_SWAL_WALL68.GPJ NC_DOT.GDT 6/12/26

NCDOT BORE SINGLE I2513AC GEO SWAL WALL68.GPJ NC DOT.GDT 6/12/26

GEOTECHNICAL BORING REPORT
BORE LOG

WBS 34165.1.6			TIP I-2513AC			COUNTY BUNCOMBE			GEOLOGIST MARPLES, Z. J.						
SITE DESCRIPTION NOISE WALL NO. 68 FROM STA. 9+57.85 -NW68- TO STA. 30+45.00 -NW68- ON I-26 CONNECTOR												GROUND WTR (ft)			
BORING NO. NWA35-6			STATION 22+58			OFFSET 30 ft RT			ALIGNMENT -NW68-			0 HR. Caved			
COLLAR ELEV. 2,078.4 ft			TOTAL DEPTH 20.0 ft			NORTHING 682,363			EASTING 934,456			24 HR. FIAD			
DRILL RIG/HAMMER EFF./DATE TER373 DIEDRICH D-50 93% 01/28/2022						DRILL METHOD H.S. Augers				HAMMER TYPE Automatic					
DRILLER TURNAGE, J. R.			START DATE 12/14/22			COMP. DATE 12/14/22			SURFACE WATER DEPTH N/A						
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)
2080															
	2,077.4	1.0												2,078.4	GROUND SURFACE 0.0
2075	2,074.9	3.5	2	3	3	6						M		RESIDUAL MEDIUM STIFF TO STIFF, BROWN, RED, SILTY CLAY, MOIST (A-7-6)	
	2,072.9	6.0	4	6	9	15						M		2,072.9	5.5
2070	2,069.9	8.5	5	8	8	16						M		STIFF TO VERY STIFF, RED, BROWN, FINE TO COARSE SANDY CLAY, MOIST (A-6)	
			5	5	7	12						M			
2065	2,064.9	13.5	3	3	6	9						M		2,065.4	13.0
2060	2,059.9	18.5	3	4	4	8						M	2,058.4	20.0	
														Boring Terminated at Elevation 2,058.4 ft IN RESIDUAL CLAYEY SILT	

NCDOT BORE SINGLE I2513AC_GEO_SWAL_WALL68.GPJ NC_DOT.GDT 6/12/26

GEOTECHNICAL BORING REPORT
BORE LOG

WBS 34165.1.6			TIP I-2513AC			COUNTY BUNCOMBE			GEOLOGIST MARPLES, Z. J.						
SITE DESCRIPTION NOISE WALL NO. 68 FROM STA. 9+57.85 -NW68- TO STA. 30+45.00 -NW68- ON I-26 CONNECTOR												GROUND WTR (ft)			
BORING NO. NWA35-7			STATION 23+65			OFFSET 16 ft LT			ALIGNMENT -NW68-			0 HR. Caved			
COLLAR ELEV. 2,069.8 ft			TOTAL DEPTH 20.3 ft			NORTHING 682,478			EASTING 934,473			24 HR. 12.6			
DRILL RIG/HAMMER EFF./DATE TER373 DIEDRICH D-50 93% 01/28/2022						DRILL METHOD H.S. Augers			HAMMER TYPE Automatic						
DRILLER TURNAGE, J. R.			START DATE 12/14/22			COMP. DATE 12/14/22			SURFACE WATER DEPTH N/A						
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION	
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)
2070														2,069.8	GROUND SURFACE 0.0
2065	2,068.8	1.0	3	2	3	5						M		2,066.3	3.5
	2,066.0	3.8	3	5	7	12						M		2,064.3	5.5
2060	2,063.5	6.3	4	5	6	11						M			
	2,061.0	8.8	3	3	3	6						M			
2055	2,056.0	13.8	4	3	7	10						M			
	2,051.0	18.8	4	5	6	11						M		2,049.5	20.3
2050														Boring Terminated at Elevation 2,049.5 ft IN RESIDUAL CLAYEY SILT	

NCDOT BORE SINGLE I2513AC_GEO_SWAL_WALL68.GPJ NC_DOT.GDT 6/12/26

GEOTECHNICAL BORING REPORT
BORE LOG

WBS 34165.1.6			TIP I-2513AC			COUNTY BUNCOMBE			GEOLOGIST MARPLES, Z. J.							
SITE DESCRIPTION NOISE WALL NO. 68 FROM STA. 9+57.85 -NW68- TO STA. 30+45.00 -NW68- ON I-26 CONNECTOR												GROUND WTR (ft)				
BORING NO. NWA35-8			STATION 24+75			OFFSET 21 ft RT			ALIGNMENT -NW68-			0 HR.	9.3			
COLLAR ELEV. 2,064.9 ft			TOTAL DEPTH 19.5 ft			NORTHING 682,553			EASTING 934,561			24 HR.	7.2			
DRILL RIG/HAMMER EFF./DATE TER373 DIEDRICH D-50 93% 01/28/2022						DRILL METHOD H.S. Augers				HAMMER TYPE Automatic						
DRILLER TURNAGE, J. R.			START DATE 12/14/22			COMP. DATE 12/14/22			SURFACE WATER DEPTH N/A							
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION		
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)	
2065														2,064.9	GROUND SURFACE 0.0	
2060	2,063.9	1.0	WOH	WOH	WOH						W		RESIDUAL VERY SOFT TO SOFT, BROWN, RED, SILTY CLAY, WET (A-7-6)			
	2,061.9	3.0	2	1	2									3	2,059.9	5.0
	2,059.4	5.5	2	1	2									3	2,056.9	8.0
2055	2,056.9	8.0	WOH	WOH	7						W		SOFT TO MEDIUM STIFF, GRAY, BROWN, FINE TO COARSE SANDY SILT, WET (A-4)			
															2,052.9	12.0
2050	2,051.9	13.0	7	8	9						W		MEDIUM DENSE, BROWN, RED, SILTY COARSE TO FINE SAND, WET, LITTLE ROCK FRAGMENTS (A-2-4)			
	2,046.9	18.0	9	7	8										2,045.4	19.5
												W		Boring Terminated at Elevation 2,045.4 ft IN RESIDUAL SILTY SAND		

NCDOT BORE SINGLE I2513AC_GEO_SWAL_WALL68.GPJ NC_DOT.GDT 6/12/26

GEOTECHNICAL BORING REPORT
BORE LOG

WBS 34165.1.6			TIP I-2513AC			COUNTY BUNCOMBE			GEOLOGIST SCHLEMM, T.S.								
SITE DESCRIPTION NOISE WALL NO. 68 FROM STA. 9+57.85 -NW68- TO STA. 30+45.00 -NW68- ON I-26 CONNECTOR												GROUND WTR (ft)					
BORING NO. B-55			STATION 25+54			OFFSET 17 ft RT			ALIGNMENT -NW68-			0 HR.	23.0				
COLLAR ELEV. 2,071.7 ft			TOTAL DEPTH 53.5 ft			NORTHING 682,625			EASTING 934,596			24 HR.	FIAD				
DRILL RIG/HAMMER EFF./DATE TER1974 CME-45B 93% 08/10/2017						DRILL METHOD H.S. Augers			HAMMER TYPE Automatic								
DRILLER TURNAGE, J.R.			START DATE 01/08/18			COMP. DATE 01/08/18			SURFACE WATER DEPTH N/A								
ELEV (ft)	DRIVE ELEV (ft)	DEPTH (ft)	BLOW COUNT			BLOWS PER FOOT					SAMP. NO.	MOI	LOG	SOIL AND ROCK DESCRIPTION			
			0.5ft	0.5ft	0.5ft	0	25	50	75	100				ELEV. (ft)	DEPTH (ft)		
2075																	
2070														2,071.7	GROUND SURFACE 0.0		
	2,068.2	3.5		50	15	17						M			RESIDUAL LIGHT TO DARK BROWN, FINE TO COARSE SANDY SILT, TRACE TO LITTLE MICA, TRACE QUARTZ FRAGMENTS, SILTY SAND LAYERS		
2065	2,063.2	8.5		7	11	11						M					
2060	2,058.2	13.5		15	12	13						W					
2055	2,053.2	18.5		9	16	17						W					
2050	2,048.2	23.5		16	17	28						W		2,050.7	21.0		
2045	2,043.2	28.5		11	14	12								2,044.7	27.0		
2040	2,038.2	33.5	100/0.5							100/0.5			M		2,039.7	32.0	
2035	2,033.2	38.5		7	7	14								2,034.7	37.0	WEATHERED ROCK (BROWN AND GRAY, MICA-SCHIST)	
2030	2,028.2	43.5		4	6	6							M		2,030.7	41.0	RESIDUAL BROWN AND GRAY, FINE TO COARSE SANDY SILT, TRACE TO LITTLE MICA, TRACE QUARTZ FRAGMENTS
2025	2,023.2	48.5		14	32	45							M		2,024.7	47.0	LIGHT GRAY AND LIGHT BROWN-WHITE, CLAYEY SILT
2020	2,018.2	53.5											M			47.0	BROWN AND DARK BROWN, FINE TO COARSE SANDY SILT, LITTLE MICA, TRACE QUARTZ FRAGMENTS
														2,019.2	52.5	CRYSTALLINE ROCK (BLUE-BLACK AND WHITE, GNEISS) Boring Terminated WITH STANDARD PENETRATION TEST REFUSAL at Elevation 2,018.2 ft IN CRYSTALLINE ROCK (GNEISS)	
														2,018.2	53.5		

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