STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	49218.26	1	51

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL ENGINEERING UNIT

ROADWAY SUBSURFACE INVESTIGATION

COUNTY *CUMBERLAND*

PROJECT DESCRIPTION *FORT BRAGG – PAVEMENT DESIGN INVESTIGATION ON ALL AMERICAN FREEWAY AND GRUBER ROAD*

PAVEMENT & SUBGRADE INVENTORY

REFERENCE: N/A

PROJECT: 49218

CONTENTS

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.

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2. 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.

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DATE *AUGUST, 2025*

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NORTH CAROLINA LICENSED GEOLOGIST SEAL 2390 BRETT C. SMITH

1/20/26

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

GEOTECHNICAL ENGINEERING UNIT

SUBSURFACE INVESTIGATION

SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

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 206, 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-3	A-2				A-4	A-5	A-6	A-7	A-1, A-2 A-3	A-4, A-5 A-6, A-7	
	A-1-a	A-1-b		A-2-4	A-2-5	A-2-6	A-2-7				A-7-5 A-7-6			
SYMBOL														
% PASSING #10	50 MX											GRANULAR SOILS	SILT-CLAY SOILS	MUCK, PEAT
#40	30 MX	50 MX	51 MN											
#200	15 MX	25 MX	10 MX	35 MX	35 MX	35 MX	35 MX	36 MN	36 MN	36 MN	36 MN			
MATERIAL PASSING #40 LL	—		—	40 MX	41 MN	40 MX	41 MN	40 MX	41 MN	40 MX	41 MN	SOILS WITH LITTLE OR MODERATE AMOUNTS OF ORGANIC MATTER		HIGHLY ORGANIC SOILS
PI	6 MX		NP	10 MX	10 MX	11 MN	11 MN	10 MX	10 MX	11 MN	11 MN			
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 RESISTENCE (N-VALUE)	RANGE OF UNCONFINED COMPRESSIVE STRENGTH ($TONS/FT^2$)
GENERALLY GRANULAR MATERIAL (NON-COHESIVE)	VERY LOOSE	< 4	N/A
	LOOSE	4 TO 10	
	MEDIUM DENSE	10 TO 30	
	DENSE	30 TO 50	
	VERY DENSE	> 50	
GENERALLY SILT-CLAY MATERIAL (COHESIVE)	VERY SOFT	< 2	< 0.25
	SOFT	2 TO 4	0.25 TO 0.5
	MEDIUM STIFF	4 TO 8	0.5 TO 1.0
	STIFF	8 TO 15	1 TO 2
	VERY STIFF	15 TO 30	2 TO 4
	HARD	> 30	> 4

TEXTURE OR GRAIN SIZE

U.S. STD. SIEVE SIZE	4	10	40	60	200	270
OPENING (MM)	4.76	2.00	0.42	0.25	0.075	0.053

BOULDER (BLDR.)	COBBLE (COB.)	GRAVEL (GR.)	COARSE SAND (CSE. SD.)	FINE SAND (F SD.)	SILT (SL.)	CLAY (CL.)

GRAIN SIZE	MM	305	75	2.0	0.25	0.05	0.005
	IN.	12	3				

SOIL MOISTURE - CORRELATION OF TERMS

SOIL MOISTURE SCALE (ATTERBERG LIMITS)	FIELD MOISTURE DESCRIPTION	GUIDE FOR FIELD MOISTURE DESCRIPTION
	- SATURATED - (SAT.)	USUALLY LIQUID; VERY WET, USUALLY FROM BELOW THE GROUND WATER TABLE
PLASTIC RANGE (PI): LL — LIQUID LIMIT	- WET - (W)	SEMISOLID; REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE
PL — PLASTIC LIMIT		
OM — OPTIMUM MOISTURE; SL — SHRINKAGE LIMIT	- MOIST - (M)	SOLID; AT OR NEAR OPTIMUM MOISTURE
	- DRY - (D)	REQUIRES ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE

PLASTICITY

	PLASTICITY INDEX (PI)	DRY STRENGTH
NON PLASTIC	0-5	VERY LOW
SLIGHTLY PLASTIC	6-15	SLIGHT
MODERATELY PLASTIC	16-25	MEDIUM
HIGHLY PLASTIC	26 OR MORE	HIGH

COLOR

DESCRIPTIONS 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	1 - 10%
LITTLE ORGANIC MATTER	3 - 5%	5 - 12%	LITTLE	10 - 20%
MODERATELY ORGANIC	5 - 10%	12 - 20%	SOME	20 - 35%
HIGHLY ORGANIC	> 10%	> 20%	HIGHLY	35% AND ABOVE

GROUND WATER

- WATER LEVEL IN BORE HOLE IMMEDIATELY AFTER DRILLING
- STATIC WATER LEVEL AFTER 24 HOURS
- PW: 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
- SLOPE INDICATOR INSTALLATION
- SOIL SYMBOL
- SPT DMT VST PMT TEST BORING
- CONE PENETROMETER TEST
- ARTIFICIAL FILL (AF) OTHER THAN ROADWAY EMBANKMENT
- AUGER BORING
- SOUNDING ROD
- INFERRED SOIL BOUNDARY
- CORE BORING
- TEST BORING WITH CORE
- INFERRED ROCK LINE
- MW MONITORING WELL
- SPT N-VALUE
- ALLUVIAL SOIL BOUNDARY
- PIEZOMETER INSTALLATION

RECOMMENDATION SYMBOLS

- UNDERCUT
- UNCLASSIFIED EXCAVATION - UNSUITABLE WASTE
- UNCLASSIFIED EXCAVATION - ACCEPTABLE, BUT NOT TO BE USED IN THE TOP 3 FEET OF EMBANKMENT OR BACKFILL
- SHALLOW UNDERCUT
- UNCLASSIFIED EXCAVATION - ACCEPTABLE DEGRADABLE ROCK

ABBREVIATIONS

AR - AUGER REFUSAL	MED. - MEDIUM	VST - VANE SHEAR TEST
BT - BORING TERMINATED	MICA. - MICACEOUS	WEA. - WEATHERED
CL. - CLAY	MOD. - MODERATELY	γ - UNIT WEIGHT
CPT - CONE PENETRATION TEST	NP - NON PLASTIC	γ_d - DRY UNIT WEIGHT
CSE. - COARSE	ORG. - ORGANIC	
DMT - DILATOMETER TEST	PMT - PRESSUREMETER TEST	SAMPLE ABBREVIATIONS
DPT - DYNAMIC PENETRATION TEST	SAP. - SAPROLITIC	S - BULK
e - VOID RATIO	SD. - SAND, SANDY	SS - SPLIT SPOON
F - FINE	SL. - SILT, SILTY	ST - SHELBY TUBE
FOSS. - FOSSILIFEROUS	SLI. - SLIGHTLY	RS - ROCK
FRAC. - FRACTURED, FRACTURES	TCR - TRICONE REFUSAL	RT - RECOMPACTED TRIAXIAL
FRAGS. - FRAGMENTS	w - MOISTURE CONTENT	CBR - CALIFORNIA BEARING RATIO
HI. - HIGHLY	V - VERY	

EQUIPMENT USED ON SUBJECT PROJECT

DRILL UNITS:	ADVANCING TOOLS:	HAMMER TYPE:
☐ CME-45C	☐ CLAY BITS	☐ AUTOMATIC ☐ MANUAL
☐ CME-55	☐ 6" CONTINUOUS FLIGHT AUGER	CORE SIZE:
☐ CME-550	☐ 8" HOLLOW AUGERS	☐ -B ____ ☐ -H ____
☐ VANE SHEAR TEST	☐ HARD FACED FINGER BITS	☐ -N ____
☐ PORTABLE HOIST	☐ TUNG.-CARBIDE INSERTS	HAND TOOLS:
☒ D-25 (CATLIN)	☐ CASING ☐ W/ ADVANCER	☒ POST HOLE DIGGER
☐ ________	☐ TRICONE ____" STEEL TEETH	☒ HAND AUGER
	☐ TRICONE ____" TUNG.-CARB.	☐ SOUNDING ROD
	☐ CORE BIT	☐ VANE SHEAR TEST
	☒ SOLID STEM AUGER	☒ KESSLER DCP

ROCK DESCRIPTION

HARD ROCK IS NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT REFUSAL IF TESTED. AN INFERRED ROCK LINE INDICATES THE LEVEL AT WHICH NON-COASTAL PLAIN MATERIAL WOULD YIELD SPT REFUSAL. SPT REFUSAL IS PENETRATION BY A SPLIT SPOON SAMPLER EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS IN NON-COASTAL PLAIN MATERIAL. THE TRANSITION BETWEEN SOIL AND ROCK IS OFTEN REPRESENTED BY A ZONE OF WEATHERED ROCK.
ROCK MATERIALS ARE TYPICALLY DIVIDED AS FOLLOWS:

WEATHERED ROCK (WR)	NON-COASTAL PLAIN MATERIAL THAT WOULD YIELD SPT N VALUES > 100 BLOWS PER FOOT IF TESTED.
CRYSTALLINE ROCK (CR)	FINE TO COARSE GRAIN IGNEOUS AND METAMORPHIC ROCK THAT WOULD YIELD SPT REFUSAL IF TESTED. ROCK TYPE INCLUDES GRANITE, GNEISS, GABBRO, SCHIST, ETC.
NON-CRYSTALLINE ROCK (NCR)	FINE TO COARSE GRAIN METAMORPHIC AND NON-COASTAL PLAIN SEDIMENTARY ROCK THAT WOULD YEILD SPT REFUSAL IF TESTED. ROCK TYPE INCLUDES PHYLLITE, SLATE, SANDSTONE, ETC.
COASTAL PLAIN SEDIMENTARY ROCK (CP)	COASTAL PLAIN SEDIMENTS CEMENTED INTO ROCK, BUT MAY NOT YIELD SPT REFUSAL. ROCK TYPE INCLUDES LIMESTONE, SANDSTONE, CEMENTED SHELL BEDS, ETC.

WEATHERING

FRESH	ROCK FRESH, CRYSTALS BRIGHT, FEW JOINTS MAY SHOW SLIGHT STAINING. ROCK RINGS UNDER HAMMER IF CRYSTALLINE.
VERY SLIGHT (V SLI.)	ROCK GENERALLY FRESH, JOINTS STAINED, SOME JOINTS MAY SHOW THIN CLAY COATINGS IF OPEN, CRYSTALS ON A BROKEN SPECIMEN FACE SHINE BRIGHTLY. ROCK RINGS UNDER HAMMER BLOWS IF OF A CRYSTALLINE NATURE.
SLIGHT (SLI.)	ROCK GENERALLY FRESH, JOINTS STAINED AND DISCOLORATION EXTENDS INTO ROCK UP TO 1 INCH. OPEN JOINTS MAY CONTAIN CLAY. IN GRANITOID ROCKS SOME OCCASIONAL FELDSPAR CRYSTALS ARE DULL AND DISCOLORED. CRYSTALLINE ROCKS RING UNDER HAMMER BLOWS.
MODERATE (MOD.)	SIGNIFICANT PORTIONS OF ROCK SHOW DISCOLORATION AND WEATHERING EFFECTS. IN GRANITOID ROCKS, MOST FELDSPARS ARE DULL AND DISCOLORED, SOME SHOW CLAY. ROCK HAS DULL SOUND UNDER HAMMER BLOWS AND SHOWS SIGNIFICANT LOSS OF STRENGTH AS COMPARED WITH FRESH ROCK.
MODERATELY SEVERE (MOD. SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. IN GRANITOID ROCKS, ALL FELDSPARS DULL AND DISCOLORED AND A MAJORITY SHOW KAOLINIZATION. ROCK SHOWS SEVERE LOSS OF STRENGTH AND CAN BE EXCAVATED WITH A GEOLOGIST'S PICK. ROCK GIVES "CLUNK" SOUND WHEN STRUCK. *IF TESTED, WOULD YIELD SPT REFUSAL*
SEVERE (SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. ROCK FABRIC CLEAR AND EVIDENT BUT REDUCED IN STRENGTH TO STRONG SOIL. IN GRANITOID ROCKS ALL FELDSPARS ARE KAOLINIZED TO SOME EXTENT. SOME FRAGMENTS OF STRONG ROCK USUALLY REMAIN. *IF TESTED, WOULD YIELD SPT N VALUES > 100 BPF*
VERY SEVERE (V SEV.)	ALL ROCK EXCEPT QUARTZ DISCOLORED OR STAINED. ROCK FABRIC ELEMENTS ARE DISCERNIBLE BUT MASS IS EFFECTIVELY REDUCED TO SOIL STATUS, WITH ONLY FRAGMENTS OF STRONG ROCK REMAINING. SAPROLITE IS AN EXAMPLE OF ROCK WEATHERED TO A DEGREE THAT ONLY MINOR VESTIGES OF ORIGINAL ROCK FABRIC REMAIN. *IF TESTED, WOULD YIELD SPT N VALUES < 100 BPF*
COMPLETE	ROCK REDUCED TO SOIL. ROCK FABRIC NOT DISCERNIBLE, OR DISCERNIBLE ONLY IN SMALL AND SCATTERED CONCENTRATIONS. QUARTZ MAY BE PRESENT AS DIKES OR STRINGERS. SAPROLITE IS ALSO AN EXAMPLE.

ROCK HARDNESS

VERY HARD	CANNOT BE SCRATCHED BY KNIFE OR SHARP PICK. BREAKING OF HAND SPECIMENS REQUIRES SEVERAL HARD BLOWS OF THE GEOLOGIST'S PICK.
HARD	CAN BE SCRATCHED BY KNIFE OR PICK ONLY WITH DIFFICULTY. HARD HAMMER BLOWS REQUIRED TO DETACH HAND SPECIMEN.
MODERATELY HARD	CAN BE SCRATCHED BY KNIFE OR PICK. GOUGES OR GROOVES TO 0.25 INCHES DEEP CAN BE EXCAVATED BY HARD BLOW OF A GEOLOGIST'S PICK. HAND SPECIMENS CAN BE DETACHED BY MODERATE BLOWS.
MEDIUM HARD	CAN BE GROOVED OR GOUGED 0.05 INCHES DEEP BY FIRM PRESSURE OF KNIFE OR PICK POINT. CAN BE EXCAVATED IN SMALL CHIPS TO PEICES 1 INCH MAXIMUM SIZE BY HARD BLOWS OF THE POINT OF A GEOLOGIST'S PICK.
SOFT	CAN BE GROVED OR GOUGED READILY BY KNIFE OR PICK. CAN BE EXCAVATED IN FRAGMENTS FROM CHIPS TO SEVERAL INCHES IN SIZE BY MODERATE BLOWS OF A PICK POINT. SMALL, THIN PIECES CAN BE BROKEN BY FINGER PRESSURE.
VERY SOFT	CAN BE CARVED WITH KNIFE. CAN BE EXCAVATED READILY WITH POINT OF PICK. PIECES 1 INCH OR MORE IN THICKNESS CAN BE BROKEN BY FINGER PRESSURE. CAN BE SCRATCHED READILY BY FINGERNAIL.

FRACTURE SPACING

TERM	SPACING
VERY WIDE	MORE THAN 10 FEET
WIDE	3 TO 10 FEET
MODERATELY CLOSE	1 TO 3 FEET
CLOSE	0.16 TO 1 FOOT
VERY CLOSE	LESS THAN 0.16 FEET

BEDDING

TERM	THICKNESS
VERY THICKLY BEDDED	4 FEET
THICKLY BEDDED	1.5 - 4 FEET
THINLY BEDDED	0.16 - 1.5 FEET
VERY THINLY BEDDED	0.03 - 0.16 FEET
THICKLY LAMINATED	0.008 - 0.03 FEET
THINLY LAMINATED	< 0.008 FEET

INDURATION

FOR SEDIMENTARY ROCKS, INDURATION IS THE HARDENING OF MATERIAL BY CEMENTING, HEAT, PRESSURE, ETC.

FRIABLE	RUBBING WITH FINGER FREES NUMEROUS GRAINS; GENTLE BLOW BY HAMMER DISINTEGRATES SAMPLE.
MODERATELY INDURATED	GRAINS CAN BE SEPARATED FROM SAMPLE WITH STEEL PROBE; BREAKS EASILY WHEN HIT WITH HAMMER.
INDURATED	GRAINS ARE DIFFICULT TO SEPARATE WITH STEEL PROBE; DIFFICULT TO BREAK WITH HAMMER.
EXTREMELY INDURATED	SHARP HAMMER BLOWS REQUIRED TO BREAK SAMPLE; SAMPLE BREAKS ACROSS GRAINS.

TERMS AND DEFINITIONS

ALLUVIUM (ALLUV.) - SOILS THAT HAVE BEEN TRANSPORTED BY WATER.

AQUIFER - A WATER BEARING FORMATION OR STRATA.

ARENACEOUS - APPLIED TO ROCKS THAT HAVE BEEN DERIVED FROM SAND OR THAT CONTAIN SAND.

ARGILLACEOUS - APPLIED TO ALL ROCKS OR SUBSTANCES COMPOSED OF CLAY MINERALS, OR HAVING A NOTABLE PROPORTION OF CLAY IN THEIR COMPOSITION, SUCH AS SHALE, SLATE, ETC.

ARTESIAN - GROUND WATER THAT IS UNDER SUFFICIENT PRESSURE TO RISE ABOVE THE LEVEL AT WHICH IT IS ENCOUNTERED, BUT WHICH DOES NOT NECESSARILY RISE TO OR ABOVE THE GROUND SURFACE.

CALCAREOUS (CALC.) - SOILS THAT CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE.

COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE.

CORE RECOVERY (REC.) - TOTAL LENGTH OF ALL MATERIAL RECOVERED IN THE CORE BARREL DIVIDED BY TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.

DIKE - A TABULAR BODY OF IGNEOUS ROCK THAT CUTS ACROSS THE STRUCTURE OF ADJACENT ROCKS OR CUTS MASSIVE ROCK.

DIP - THE ANGLE AT WHICH A STRATUM OR ANY PLANAR FEATURE IS INCLINED FROM THE HORIZONTAL.

DIP DIRECTION (DIP AZIMUTH) - THE DIRECTION OR BEARING OF THE HORIZONTAL TRACE OF THE LINE OF DIP, MEASURED CLOCKWISE FROM NORTH.

FAULT - A FRACTURE OR FRACTURE ZONE ALONG WHICH THERE HAS BEEN DISPLACEMENT OF THE SIDES RELATIVE TO ONE ANOTHER PARALLEL TO THE FRACTURE.

FISSILE - A PROPERTY OF SPLITTING ALONG CLOSELY SPACED PARALLEL PLANES.

FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM PARENT MATERIAL.

FLOOD PLAIN (FP) - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM.

FORMATION (FM.) - A MAPPABLE GEOLOGIC UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE FIELD.

JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED.

LEDGE - A SHELF-LIKE RIDGE OR PROJECTION OF ROCK WHOSE THICKNESS IS SMALL COMPARED TO ITS LATERAL EXTENT.

LENS - A BODY OF SOIL OR ROCK THAT THINS OUT IN ONE OR MORE DIRECTIONS.

MOTTLED (MOT.) - IRREGULARLY MARKED WITH SPOTS OF DIFFERENT COLORS. MOTTLING IN SOILS USUALLY INDICATES POOR AERATION AND LACK OF GOOD DRAINAGE.

PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN INTERVENING IMPERVIOUS STRATUM.

RESIDUAL (RES.) SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK.

ROCK QUALITY DESIGNATION (RQD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.

SAPROLITE (SAP.) - RESIDUAL SOIL THAT RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK.

SILL - AN INTRUSIVE BODY OF IGNEOUS ROCK OF APPROXIMATELY UNIFORM THICKNESS AND RELATIVELY THIN COMPARED WITH ITS LATERAL EXTENT, THAT HAS BEEN EMPLACED PARALLEL TO THE BEDDING OR SCHISTOSITY OF THE INTRUDED ROCKS.

SLICKENSIDE - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLANE.

STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER OF BLOWS (N OR BPF) OF A 140 LB. HAMMER FALLING 30 INCHES REQUIRED TO PRODUCE A PENETRATION OF 1 FOOT INTO SOIL WITH A 2 INCH OUTSIDE DIAMETER SPLIT SPOON SAMPLER. SPT REFUSAL IS PENETRATION EQUAL TO OR LESS THAN 0.1 FOOT PER 60 BLOWS.

STRATA CORE RECOVERY (SREC.) - TOTAL LENGTH OF STRATA MATERIAL RECOVERED DIVIDED BY TOTAL LENGTH OF STRATUM AND EXPRESSED AS A PERCENTAGE.

STRATA ROCK QUALITY DESIGNATION (SRQD) - A MEASURE OF ROCK QUALITY DESCRIBED BY TOTAL LENGTH OF ROCK SEGMENTS WITHIN A STRATUM EQUAL TO OR GREATER THAN 4 INCHES DIVIDED BY THE TOTAL LENGTH OF STRATA AND EXPRESSED AS A PERCENTAGE.

TOPSOIL (TS.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.

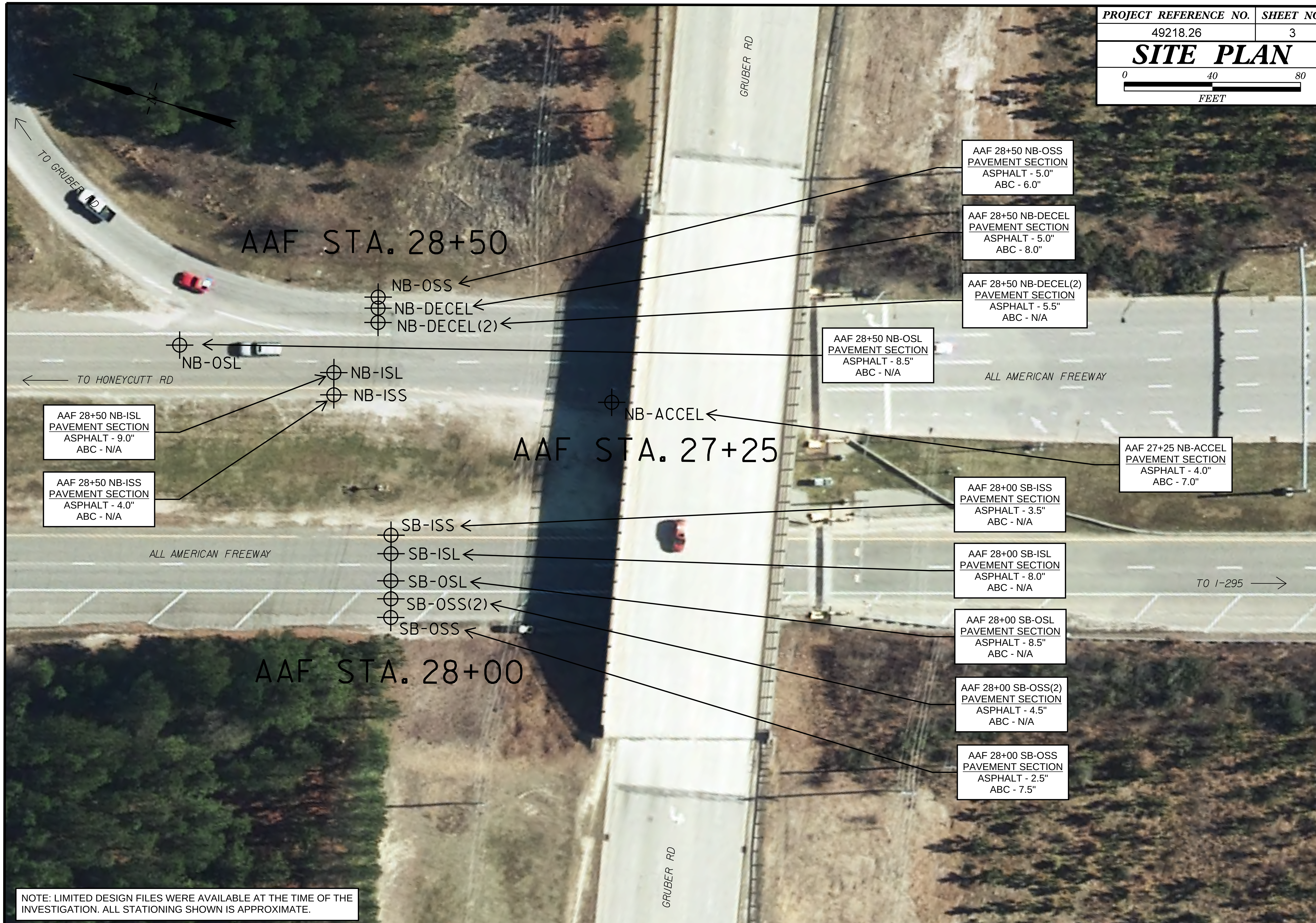
BENCH MARK: N/A

ELEVATION: N/A FEET

NOTES:

LIMITED ROADWAY DESIGN FILES WERE AVAILABLE AT THE TIME OF THE INVESTIGATION. STATIONING SHOWN IN THIS REPORT IS ESTIMATED BASED ON PRELIMINARY ALIGNMENT FILES WITH LIMITED COVERAGE. STATION INFORMATION SHOWN WITHIN THIS REPORT SHOULD BE USED ONLY TO DIFFERENTIATE TEST LOCATIONS AND NOT FOR ANY DESIGN PURPOSES.

DATE: 8-15-14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TO GRUBER RD
GRUBER RD
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NB-OSS
NB-DECEL
NB-DECEL(2)
NB-OSL
NB-ISL
NB-ISS
TO HONEYCUTT RD
NB-ACCEL
AAF STA. 27+25
ALL AMERICAN FREEWAY
AAF 28+50 NB-OSS PAVEMENT SECTION ASPHALT - 5.0" ABC - 6.0"
AAF 28+50 NB-DECEL PAVEMENT SECTION ASPHALT - 5.0" ABC - 8.0"
AAF 28+50 NB-DECEL(2) PAVEMENT SECTION ASPHALT - 5.5" ABC - N/A
AAF 28+50 NB-OSL PAVEMENT SECTION ASPHALT - 8.5" ABC - N/A
AAF 28+50 NB-ISL PAVEMENT SECTION ASPHALT - 9.0" ABC - N/A
AAF 28+50 NB-ISS PAVEMENT SECTION ASPHALT - 4.0" ABC - N/A
AAF 27+25 NB-ACCEL PAVEMENT SECTION ASPHALT - 4.0" ABC - 7.0"
SB-ISS
SB-ISL
SB-OSL
SB-OSS(2)
SB-OSS
ALL AMERICAN FREEWAY
TO I-295
AAF STA. 28+00
AAF 28+00 SB-ISS PAVEMENT SECTION ASPHALT - 3.5" ABC - N/A
AAF 28+00 SB-ISL PAVEMENT SECTION ASPHALT - 8.0" ABC - N/A
AAF 28+00 SB-OSL PAVEMENT SECTION ASPHALT - 8.5" ABC - N/A
AAF 28+00 SB-OSS(2) PAVEMENT SECTION ASPHALT - 4.5" ABC - N/A
AAF 28+00 SB-OSS PAVEMENT SECTION ASPHALT - 2.5" ABC - 7.5"
GRUBER RD
NOTE: LIMITED DESIGN FILES WERE AVAILABLE AT THE TIME OF THE INVESTIGATION. ALL STATIONING SHOWN IS APPROXIMATE.

PROJECT REFERENCE NO.	SHEET NO.
49218.26	4

SITE PLAN

0 40 80
FEET

NOTE: LIMITED DESIGN FILES WERE AVAILABLE AT THE TIME OF THE INVESTIGATION. ALL STATIONING SHOWN IS APPROXIMATE.

PROJECT REFERENCE NO.	SHEET NO.
49218.26	5

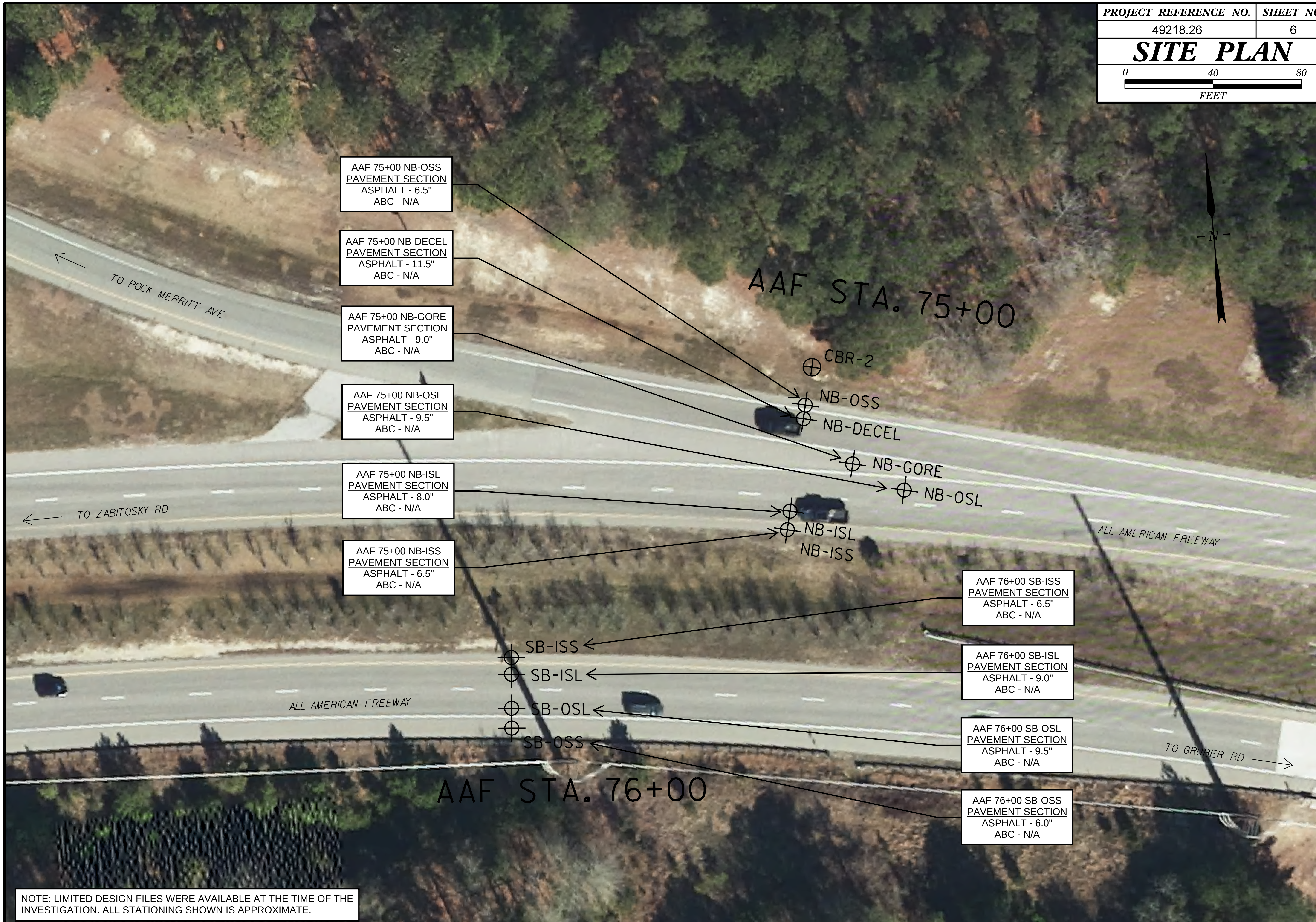
SITE PLAN

NOTE: LIMITED DESIGN FILES WERE AVAILABLE AT THE TIME OF THE INVESTIGATION. ALL STATIONING SHOWN IS APPROXIMATE.

PROJECT REFERENCE NO.	SHEET NO.
49218.26	6

SITE PLAN

0 40 80
FEET



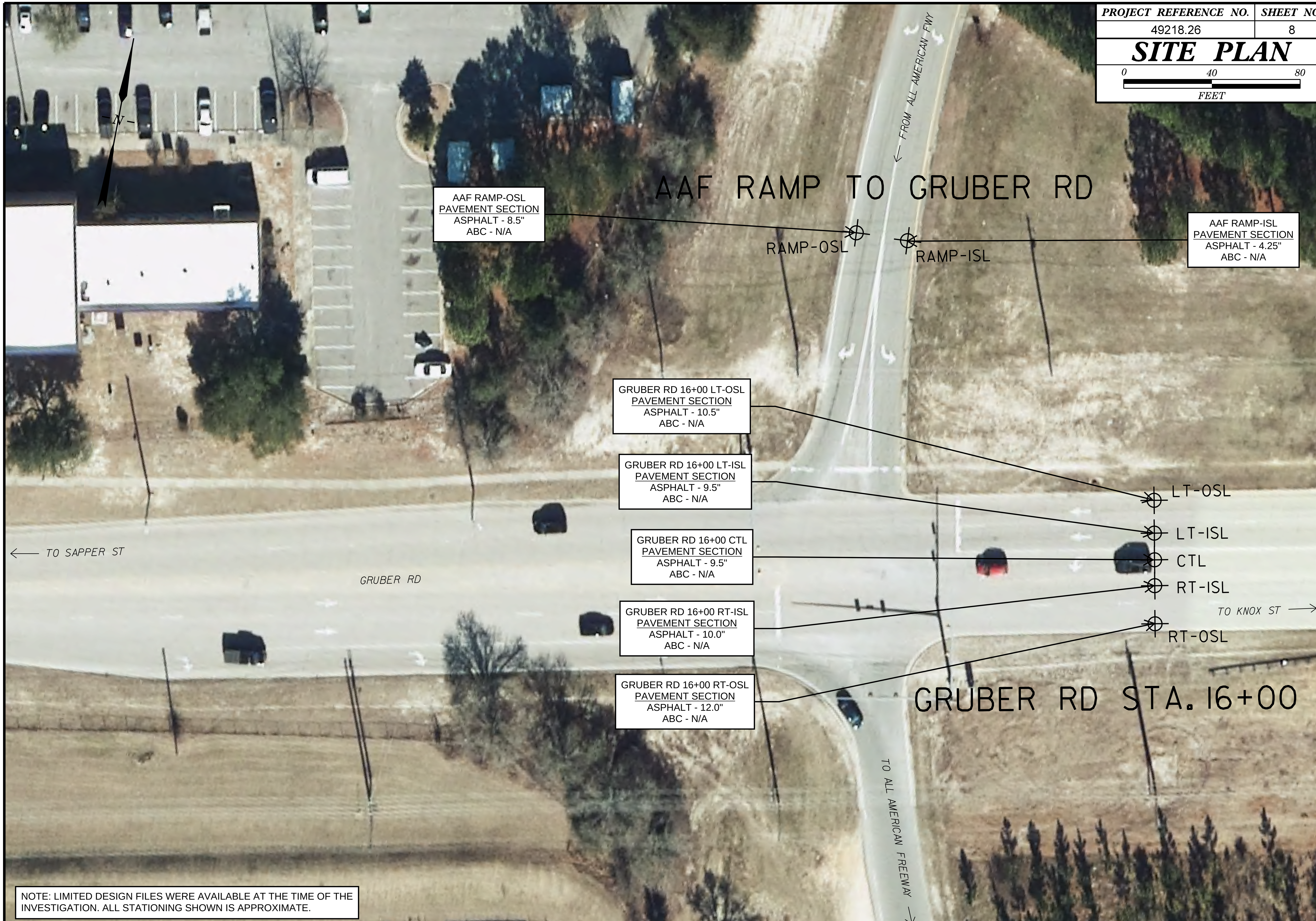
NOTE: LIMITED DESIGN FILES WERE AVAILABLE AT THE TIME OF THE INVESTIGATION. ALL STATIONING SHOWN IS APPROXIMATE.

PROJECT REFERENCE NO.
49218.26
SHEET NO.
7
SITE PLAN
0
40
80
FEET
N
ZABITOSKY RD
AAF STA. 95+00
NB-OSL
NB-ISL
NB-CTL
NB-LTL
SB-ISL
SB-OSL
ALL AMERICAN FREEWAY
ALL AMERICAN FREEWAY
TO GRUBER RD
AAF 95+00 NB-OSL
PAVEMENT SECTION
ASPHALT - 7.5"
ABC - 7.5"
AAF 95+00 NB-ISL
PAVEMENT SECTION
ASPHALT - 7.5"
ABC - 8.5"
AAF 95+00 NB-CTL
PAVEMENT SECTION
ASPHALT - 7.0"
ABC - 8.5"
AAF 95+00 NB-LTL
PAVEMENT SECTION
ASPHALT - 8.0"
ABC - 7.5"
AAF 95+00 SB-ISL
PAVEMENT SECTION
ASPHALT - 6.5"
ABC - 9.5"
AAF 95+00 SB-OSL
PAVEMENT SECTION
ASPHALT - 5.5"
ABC - 10.0"
AAF STA. 95+00
NOTE: LIMITED DESIGN FILES WERE AVAILABLE AT THE TIME OF THE INVESTIGATION. ALL STATIONING SHOWN IS APPROXIMATE.

PROJECT REFERENCE NO.	SHEET NO.
49218.26	8

SITE PLAN

0 40 80
FEET

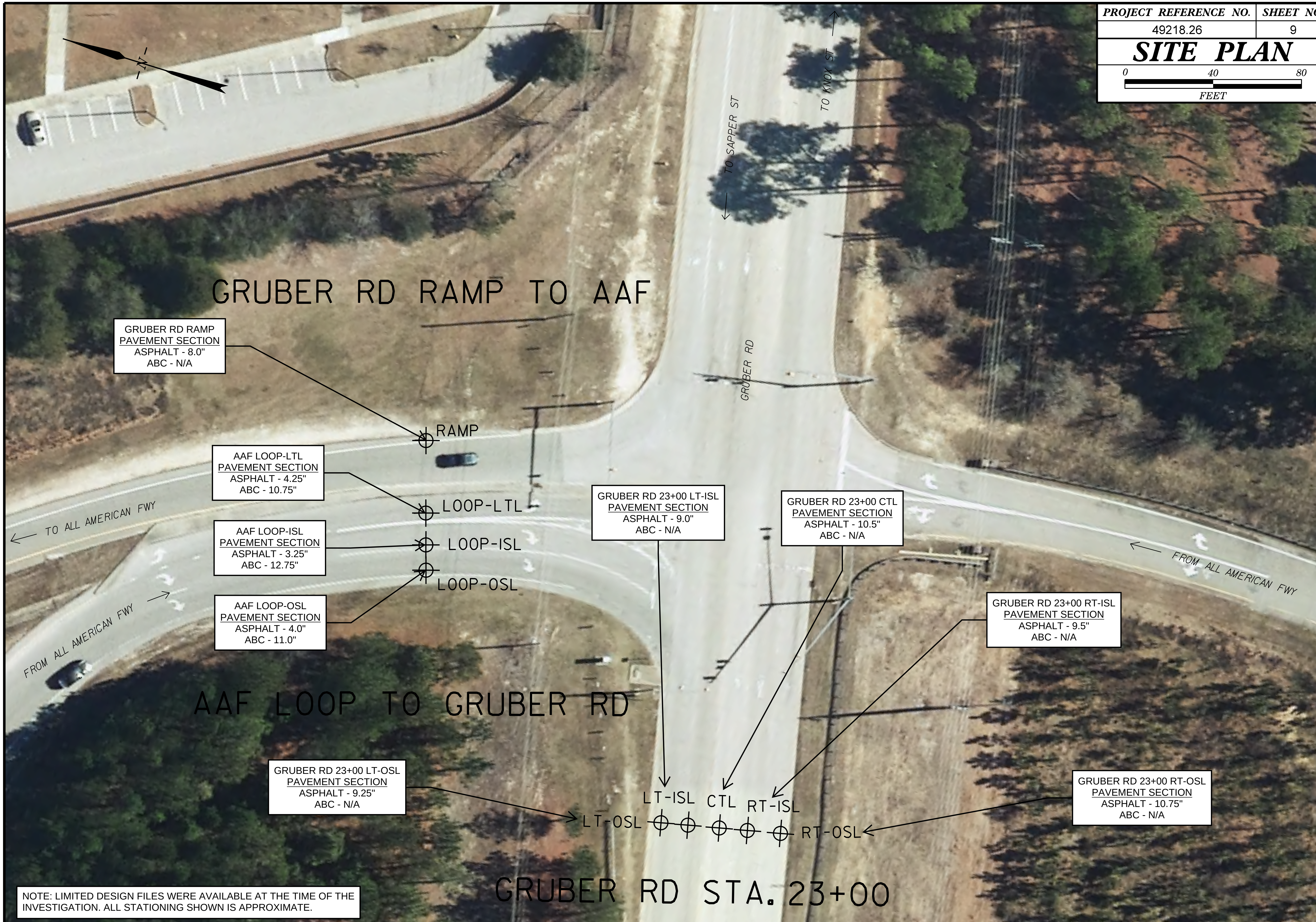


NOTE: LIMITED DESIGN FILES WERE AVAILABLE AT THE TIME OF THE INVESTIGATION. ALL STATIONING SHOWN IS APPROXIMATE.

PROJECT REFERENCE NO.	SHEET NO.
49218.26	9

SITE PLAN

0 40 80
FEET



NOTE: LIMITED DESIGN FILES WERE AVAILABLE AT THE TIME OF THE INVESTIGATION. ALL STATIONING SHOWN IS APPROXIMATE.

PAVEMENT INVESTIGATION DATA SHEET

Project:	49218.26
TIP:	N/A

Route:	All American Fwy
County:	Cumberland

Date:	4/21/25 - 4/25/25
Notes:	B. Smith

SHEET 10

		Width (ft.)				Thickness (in.)					Subgrade					GPS Coordinates	
Position (Sta.,Lane,Shldr.)	Cut/Fill (Est. of Amount in feet)	Lane(s)	Shoulder	Offset Distance from White Line (ft.)	Crown "C" or Super "S" (in.)	Gross to Top of Soil	Asphalt	Concrete	ABC	Drainage Sand	Description	AASHTO Classification	Soil Moisture	Probe Depth (ft.)	Asphalt Notes	Northing	Easting
All American Freeway Station 27+25 NB-ACCEL	Cut 15-30	12	3	43 LT	C	11	4	N/A	7	N/A	Coastal Plain (0.9' - 5.0'): red-brown and orange-brown, silty SAND with little clay	A-2-4	M	5	Low Severity Fatigue Cracking and Low Severity Longitudinal (Wheel Path) Cracking	500,779	2,005,838
All American Freeway Station 28+00 SB-OSS	Cut 15-30	N/A	14	13 LT	C	10	2.5	N/A	7.5	N/A	Coastal Plain (0.8' - 4.0'): brown to maroon, fine to coarse SAND	A-3	M	4	High Severity Transverse Cracking	500,845	2,005,715
All American Freeway Station 28+00 SB-OSS(2)	Cut 15-30	N/A	14	4 LT	C	4.5	4.5	N/A	N/A	N/A	Coastal Plain (0.4' - 4.0'): tan-brown to orange-brown, fine to coarse SAND	A-3	M	4	High Severity Transverse Cracking	500,848	2,005,723
All American Freeway Station 28+00 SB-OSL	Cut 15-30	11	N/A	4 RT	C	8.5	8.5	N/A	N/A	N/A	Coastal Plain (0.7' - 4.0'): tan-brown to orange-brown, fine to coarse SAND (S-15: 1.0' - 3.0')	A-3	M	4	Moderate to High Severity Block Cracking	500,850	2,005,731
All American Freeway Station 28+00 SB-ISL	Cut 15-30	12	N/A	17 RT	C	8	8	N/A	N/A	N/A	Coastal Plain (0.7' - 5.0'): tan-brown to orange-brown, fine to coarse SAND	A-3	M	5	Moderate to High Severity Block Cracking	500,854	2,005,743
All American Freeway Station 28+00 SB-ISS	Cut 15-30	N/A	3	25 RT	C	3.5	3.5	N/A	N/A	N/A	Coastal Plain (0.3' - 5.0'): tan-brown to orange-brown, fine to coarse SAND	A-3	M	5	Moderate Severity Transverse Cracking	500,856	2,005,751
All American Freeway Station 28+50 NB-OSS	Cut 15-20	N/A	3	1 RT	C	11	5	N/A	6	N/A	Coastal Plain (0.9' - 5.0'): maroon, fine to coarse SAND (S-19: 1.5' - 2.5')	A-1-b	M	5	Low Severity Fatigue Cracking	500,894	2,005,852
All American Freeway Station 28+50 NB-DECEL	Cut 15-20	15	N/A	3 LT	C	13	5	N/A	8	N/A	Coastal Plain (1.1' - 5.0'): maroon, fine to coarse SAND	A-1-b	M	5	Low to Moderate Severity Transverse Cracking, High Severity Longitudinal (Non-Wheel Path) Cracking at Construction Joint, High Severity Patch also along the Construction Joint	500,892	2,005,847
All American Freeway Station 28+50 NB-DECEL(2)	Cut 15-20	15	N/A	8 LT	C	5.5	5.5	N/A	N/A	N/A	Coastal Plain (0.5' - 5.0'): maroon, fine to coarse SAND	A-1-b	M	5	Low to Moderate Severity Transverse Cracking, High Severity Longitudinal (Non-Wheel Path) Cracking at Construction Joint, High Severity Patch also along the Construction Joint	500,891	2,005,841
All American Freeway Station 28+50 NB-OSL	Cut 15-20	12	N/A	4 LT	C	8.5	8.5	N/A	N/A	N/A	Coastal Plain (0.7' - 5.0'): orange-brown to maroon, silty fine to coarse SAND	A-2-4	M	5	Moderate to High Severity Fatigue Cracking and Block Cracking	500,974	2,005,805
All American Freeway Station 28+50 NB-ISL	Cut 15-20	11	N/A	33 LT	C	9	9	N/A	N/A	N/A	Coastal Plain (0.8' - 4.0'): orange-brown, silty fine to coarse SAND with little to trace clay	A-2-4	M	4	Moderate to High Severity Fatigue Cracking and Block Cracking	500,903	2,005,814
All American Freeway Station 28+50 NB-ISS	Cut 15-20	N/A	3	43 LT	C	4	4	N/A	N/A	N/A	Coastal Plain (0.3' - 4.0'): orange-brown to maroon, silty fine to coarse SAND with little to trace clay	A-2-4	M	4	Low Severity Fatigue Cracking	500,900	2,005,804
All American Freeway Station 39+00 NB-OSS	Cut 10-15	N/A	4	2 RT	C	4	4	N/A	N/A	N/A	Coastal Plain (0.3' - 2.5'): brown, silty fine to coarse SAND Coastal Plain (2.5' - 5.0'): brown and white, moderately plastic, sandy, silty CLAY	A-2-4 A-7-6	M M	5	Low to Moderate Severity Edge Cracking and Transverse Cracking	501,976	2,005,536
All American Freeway Station 39+00 NB-ACCEL	Cut 10-15	15	N/A	5 LT	C	8.5	8.5	N/A	N/A	N/A	Coastal Plain (0.7' - 2.5'): brown, silty fine to coarse SAND Coastal Plain (2.5' - 5.0'): brown and white, moderately plastic, sandy, silty CLAY	A-2-4 A-7-6	M M	5	Moderate to High Severity Transverse Cracking, Low Severity Longitudinal (Wheel Path) Cracking	501,973	2,005,526
All American Freeway Station 39+00 NB-GORE	Cut 10-15	13	N/A	21 LT	C	8.5	8.5	N/A	N/A	N/A	Coastal Plain (0.7' - 2.0'): brown and gray, silty SAND Coastal Plain (2.0' - 5.0'): maroon and white, moderately plastic, sandy, silty CLAY (S-21: 2.0' - 3.5')	A-2-4 A-7-6	M M	5	High Severity Transverse Cracking, High Severity Pothole at the Construction Joint with the NB OSL	501,969	2,005,512

Notes:

OSL = Outside Lane	CTL = Center Turn Lane	OSS = Outside Shoulder	DECEL = Deceleration Lane	EB = Eastbound	FW = From White Line
ISL = Inside Lane	LTL = Left Turn Lane	ISS = Inside Shoulder	HA = Hand Auger	WB = Westbound	NB = Northbound
RTL = Right Turn Lane	PS = Paved Shoulder	ACCEL = Acceleration Lane	N/M = not measured	FY = From Yellow Line	SB = Southbound

* All Stations are Approximate

PAVEMENT INVESTIGATION DATA SHEET

Project:	49218.26
TIP:	N/A

Route:	All American Fwy
County:	Cumberland

Date:	4/21/25 - 4/25/25
Notes:	B. Smith

SHEET 11

		Width (ft.)				Thickness (in.)					Subgrade					GPS Coordinates	
Position (Sta.,Lane,Shldr.)	Cut/Fill (Est. of Amount in feet)	Lane(s)	Shoulder	Offset Distance from White Line (ft.)	Crown "C" or Super "S" (in.)	Gross to Top of Soil	Asphalt	Concrete	ABC	Drainage Sand	Description	AASHTO Classification	Soil Moisture	Probe Depth (ft.)	Asphalt Notes	Northing	Easting
All American Freeway Station 39+00 SB-OSS	Cut 10-15	N/A	4	2 LT	S	5	5	N/A	N/A	N/A	Coastal Plain (0.4' - 4.0'): brown to orange-brown, silty fine to coarse SAND	A-2-4	M	4	Low Severity Fatigue Cracking	501,927	2,005,372
All American Freeway Station 39+00 SB-DECEL	Cut 10-15	16	N/A	5 RT	S	7	7	N/A	N/A	N/A	Coastal Plain (0.6' - 4.0'): brown to orange-brown, silty fine to coarse SAND (S-14: 1.0' - 2.5')	A-2-4	M	4	Moderate to High Severity Transverse Cracking, Low to Moderate Severity Fatigue Cracking	501,928	2,005,378
All American Freeway Station 39+00 SB-GORE	Cut 10-15	8	N/A	19 RT	S	9	9	N/A	N/A	N/A	Coastal Plain (0.8' - 4.0'): brown to orange-brown, silty fine to coarse SAND	A-2-4	M	4	Moderate to High Severity Transverse Cracking	501,933	2,005,391
All American Freeway Station 54+00 NB-OSS	Fill 20-25	N/A	10	4 RT	S	5	5	N/A	N/A	N/A	Roadway Embankment (0.4' - 5.0'): orange-brown, silty SAND with little clay	A-2-4	M	5	Low Severity Fatigue Cracking	503,317	2,004,871
All American Freeway Station 54+00 NB-OSL	Fill 20-25	12	N/A	4 LT	S	7.5	7.5	N/A	N/A	N/A	Roadway Embankment (0.6' - 5.0'): orange-brown, silty SAND with little clay (S-23: 1.0' - 3.0')	A-2-4	M	5	Low to Moderate Severity Block Cracking	503,312	2,004,864
All American Freeway Station 54+00 NB-ISL	Fill 20-25	12	N/A	18 LT	S	8	8	N/A	N/A	N/A	Roadway Embankment (0.7' - 4.0'): orange-brown, silty SAND with little clay	A-2-4	M	4	Moderate Severity Fatigue Cracking and Longitudinal (Wheel Path) Cracking	503,303	2,004,853
All American Freeway Station 54+00 NB-ISS	Fill 20-25	N/A	4	27 LT	S	4	4	N/A	N/A	N/A	Roadway Embankment (0.3' - 4.0'): orange-brown, silty SAND with little clay	A-2-4	M	4	Low Severity Fatigue Cracking	503,297	2,004,846
All American Freeway Station 54+00 SB-OSS	Fill 20-25	N/A	3	1 LT	S	4	4	N/A	N/A	N/A	Roadway Embankment (0.3' - 4.0'): brown to orange-brown, silty fine to coarse SAND with little clay (S-13: 2.5' - 3.5')	A-2-4	M	4	Low Severity Fatigue Cracking	503,230	2,004,763
All American Freeway Station 54+00 SB-ACCEL	Fill 20-25	15	N/A	8 RT	S	8	8	N/A	N/A	N/A	Roadway Embankment (0.7' - 4.0'): orange-brown, silty fine to coarse SAND	A-2-4	M	4	Moderate Severity Fatigue Cracking and Moderate to High Severity Longitudinal (Wheel Path) Cracking	503,236	2,004,771
All American Freeway Station 54+00 SB-OSL	Fill 20-25	12	N/A	22 RT	S	9	9	N/A	N/A	N/A	Roadway Embankment (0.8' - 4.0'): orange-brown, silty fine to coarse SAND	A-2-4	M	4	Moderate to High Severity Block Cracking	503,244	2,004,781
All American Freeway Station 54+00 SB-ISL	Fill 20-25	12	N/A	36 RT	S	8.5	8.5	N/A	N/A	N/A	Roadway Embankment (0.7' - 5.0'): tan-brown to orange-brown, silty SAND	A-2-4	M	5	Moderate Severity Fatigue and Block Cracking	503,253	2,004,792
All American Freeway Station 54+00 SB-ISS	Fill 20-25	N/A	4	44 RT	S	4.5	4.5	N/A	N/A	N/A	Roadway Embankment (0.4' - 5.0'): tan-brown to orange-brown, silty SAND	A-2-4	M	5	Low Severity Fatigue Cracking	503,258	2,004,798

Notes:

OSL = Outside Lane	CTL = Center Turn Lane	OSS = Outside Shoulder	DECEL = Deceleration Lane	EB = Eastbound	FW = From White Line
ISL = Inside Lane	LTL = Left Turn Lane	ISS = Inside Shoulder	HA = Hand Auger	WB = Westbound	NB = Northbound
RTL = Right Turn Lane	PS = Paved Shoulder	ACCEL = Acceleration Lane	N/M = not measured	FY = From Yellow Line	SB = Southbound

* All Stations are Approximate

PAVEMENT INVESTIGATION DATA SHEET

Project:	49218.26	Route:	All American Fwy	Date:	4/21/25 - 4/25/25
TIP:	N/A	County:	Cumberland	Notes:	B. Smith

		Width (ft.)				Thickness (in.)					Subgrade					GPS Coordinates	
Position (Sta.,Lane,Shldr.)	Cut/Fill (Est. of Amount in feet)	Lane(s)	Shoulder	Offset Distance from White Line or Curb (ft.)	Crown "C" or Super "S" (in.)	Gross to Top of Soil	Asphalt	Concrete	ABC	Drainage Sand	Description	AASHTO Classification	Soil Moisture	Probe Depth (ft.)	Asphalt Notes	Northing	Easting
All American Freeway Station 75+00 NB-OSS	Cut 0-2	N/A	4	2 RT	C	6.5	6.5	N/A	N/A	N/A	<u>Coastal Plain (0.5 '- 1.5'):</u> tan-brown, silty SAND <u>Coastal Plain (1.5' - 5.0'):</u> orange-brown, slightly plastic, sandy CLAY (S-29: 1.5' - 3.5')	A-2-4 A-6	M M	5	Low Severity Fatigue Cracking	504,388	2,003,045
All American Freeway Station 75+00 NB-DECEL	Cut 0-2	16	N/A	5 LT	C	11.5	11.5	N/A	N/A	N/A	<u>Coastal Plain (1.0' - 2.0'):</u> tan-brown, silty SAND <u>Coastal Plain (2.0' - 5.0'):</u> orange-brown, moderately plastic, sandy, silty CLAY (S-30: 1.5' - 3.0')	A-2-4 A-7-6	M M	5	Low to Moderate Severity Fatigue Cracking and Moderate Severity Longitudinal (Wheel Path) Cracking	504,382	2,003,044
All American Freeway Station 75+00 NB-GORE	Cut 0-2	14	N/A	20 LT	C	9	9	N/A	N/A	N/A	<u>Coastal Plain (0.8' - 5.0'):</u> orange-brown, moderately plastic, sandy, silty CLAY	A-7-6	M	5	Low to Moderate Severity Fatigue Cracking	504,360	2,003,064
All American Freeway Station 75+00 NB-OSL	Cut 0-2	12	N/A	27 LT	C	9.5	9.5	N/A	N/A	N/A	<u>Coastal Plain (0.8' - 5.0'):</u> orange-brown, moderately plastic, sandy, silty CLAY	A-7-6	M	5	Moderate to High Severity Longitudinal (Wheel Path) Cracking, Moderate Severity Block Cracking	504,346	2,003,086
All American Freeway Station 75+00 NB-ISL	Cut 0-2	12	N/A	46 LT	C	8	8	N/A	N/A	N/A	<u>Coastal Plain (0.7' - 1.5'):</u> orange-brown, silty SAND <u>Coastal Plain (1.5' - 4.0'):</u> orange-brown, moderately plastic, sandy, silty CLAY (S-7: 2.0' - 3.5')	A-2-4 A-7-5	M M	4	Moderate to High Severity Longitudinal (Wheel Path) Cracking and Moderate Severity Transverse Cracking	504,341	2,003,034
All American Freeway Station 75+00 NB-ISS	Cut 0-2	N/A	4	55 LT	C	6.5	6.5	N/A	N/A	N/A	<u>Coastal Plain (0.5' - 1.5'):</u> orange-brown, silty SAND <u>Coastal Plain (1.5' - 4.0'):</u> orange-brown, moderately plastic, sandy, silty CLAY	A-2-4 A-7-5	M M	4	Low to Moderate Severity Edge Cracking, Low Severity Fatigue Cracking	504,333	2,003,032
All American Freeway Station 76+00 SB-OSS	Cut 0-2	N/A	9	6 LT	S	6	6	N/A	N/A	N/A	<u>Coastal Plain (0.5' - 3.0'):</u> brown to orange-brown, silty medium to coarse SAND with trace gravel *Hand Auger Refusal at 3.0 Feet	A-2-4	M	3	Low Severity Fatigue Cracking	504,255	2,002,899
All American Freeway Station 76+00 SB-OSL	Cut 0-2	12	N/A	4 RT	S	9.5	9.5	N/A	N/A	N/A	<u>Coastal Plain (0.8' - 4.0'):</u> brown to orange-brown, silty medium to coarse SAND with trace clay (S-11: 2.5' - 3.5')	A-2-4	M	4	Low to Moderate Severity Fatigue Cracking	504,264	2,002,900
All American Freeway Station 76+00 SB-ISL	Cut 0-2	12	N/A	19 RT	S	9	9	N/A	N/A	N/A	<u>Coastal Plain (0.8' - 5.0'):</u> brown to orange-brown, silty medium to coarse SAND with trace clay	A-2-4	M	5	Low to Moderate Severity Fatigue Cracking	504,280	2,002,901
All American Freeway Station 76+00 SB-ISS	Cut 0-2	N/A	4	27 RT	S	6.5	6.5	N/A	N/A	N/A	<u>Coastal Plain (0.5' - 5.0'):</u> brown to orange-brown, silty medium to coarse SAND with trace clay	A-2-4	M	5	Low Severity Fatigue Cracking	504,287	2,002,902
All American Freeway Station 95+00 NB-OSL	Fill 10-15	12	Curb	6 LT	S	15	7.5	N/A	7.5	N/A	<u>Roadway Embankment (1.3' - 5.0'):</u> light tan-brown, silty SAND with little clay (S-31: 1.5' - 3.0')	A-2-4	M	5	Low Severity Fatigue Cracking	504,314	2,001,006
All American Freeway Station 95+00 NB-ISL	Fill 10-15	12	N/A	18 LT	S	16	7.5	N/A	8.5	N/A	<u>Roadway Embankment (1.3' - 5.0'):</u> light tan-brown, silty SAND with little clay	A-2-4	M	5	Low Severity Fatigue Cracking	504,301	2,001,006
All American Freeway Station 95+00 NB-CTL	Fill 10-15	12	N/A	32 LT	S	15.5	7	N/A	8.5	N/A	<u>Roadway Embankment (1.3' - 4.0'):</u> orange-brown, silty SAND with little clay	A-2-4	M	4	Low Severity Fatigue Cracking	504,288	2,001,006
All American Freeway Station 95+00 NB-LTL	Fill 10-15	12	Curb	47 LT	S	15.5	8	N/A	7.5	N/A	<u>Roadway Embankment (1.3' - 4.0'):</u> orange-brown, silty SAND with little clay	A-2-4	M	4	Low Severity Transverse Cracking	504,272	2,001,006
All American Freeway Station 95+00 SB-OSL	Fill 10-15	12	Curb	4 RT	S	15.5	5.5	N/A	10	N/A	<u>Roadway Embankment (1.3' - 4.0'):</u> orange-brown, silty medium to coarse SAND (S-9: 2.0' - 3.0')	A-2-4	M	4	Low to Moderate Severity Fatigue Cracking	504,202	2,001,005
All American Freeway Station 95+00 SB-ISL	Fill 10-15	12	Curb	22 RT	S	16	6.5	N/A	9.5	N/A	<u>Roadway Embankment (1.3' - 5.0'):</u> orange-brown to tan-brown, silty fine to coarse SAND	A-2-4	M	5	No Visible Signs of Pavement Distress	504,221	2,001,005

<u>Notes:</u>

OSL = Outside Lane	CTL = Center Turn Lane	OSS = Outside Shoulder	DECEL = Deceleration Lane	EB = Eastbound	FW = From White Line
ISL = Inside Lane	LTL = Left Turn Lane	ISS = Inside Shoulder	HA = Hand Auger	WB = Westbound	NB = Northbound
RTL = Right Turn Lane	PS = Paved Shoulder	ACCEL = Acceleration Lane	N/M = not measured	FY = From Yellow Line	SB = Southbound

* All Stations are Approximate

PAVEMENT INVESTIGATION DATA SHEET

Project:	49218.26	Route:	AAF/Gruber Rd	Date:	4/21/25 - 4/25/25
TIP:	N/A	County:	Cumberland	Notes:	B. Smith

SHEET 13

		Width (ft.)				Thickness (in.)					Subgrade					GPS Coordinates	
Position (Sta.,Lane,Shldr.)	Cut/Fill (Est. of Amount in feet)	Lane(s)	Shoulder	Offset Distance from White Line or Curb (ft.)	Crown "C" or Super "S" (in.)	Gross to Top of Soil	Asphalt	Concrete	ABC	Drainage Sand	Description	AASHTO Classification	Soil Moisture	Probe Depth (ft.)	Asphalt Notes	Northing	Easting
All American Freeway Loop to Gruber Road LOOP-OSL	At Grade	12	3	3 LT	C	15	4	N/A	11	N/A	Coastal Plain (1.3' - 4.0'): orange-brown to red-brown, silty fine to coarse SAND with little gravel	A-2-4	M	4	Low to Moderate Severity Fatigue Cracking	500,955	2,006,202
All American Freeway Loop to Gruber Road LOOP-ISL	At Grade	12	N/A	14 LT	C	16	3.25	N/A	12.75	N/A	Coastal Plain (1.3' - 4.0'): orange-brown to red-brown, silty fine to coarse SAND with little gravel	A-2-4	M	4	Moderate Severity Fatigue Cracking	500,959	2,006,213
All American Freeway Loop to Gruber Road LOOP-LTL	At Grade	11	Curb	28 LT	C	15	4.25	N/A	10.75	N/A	Coastal Plain (1.3' - 4.0'): orange-brown to red-brown, silty fine to coarse SAND with little gravel (S-17: 1.5' - 3.0')	A-2-4	M	4	Moderate Severity Fatigue Cracking	500,963	2,006,227
All American Freeway Ramp to Gruber Road RAMP-OSL	At Grade	16	3	3 LT	C	8.5	8.5	N/A	N/A	N/A	Coastal Plain (0.7' - 5.0'): light orange-brown, silty fine to coarse SAND	A-2-4	M	5	Moderate to High Severity Fatigue Cracking	500,778	2,005,323
All American Freeway Ramp to Gruber Road RAMP-ISL	At Grade	14	3	27 LT	C	4.25	4.25	N/A	N/A	N/A	Coastal Plain (0.4' - 5.0'): light orange-brown, silty fine to coarse SAND (S-18: 0.5' - 2.5')	A-2-4	M	5	Moderate to High Severity Block Cracking	500,779	2,005,346
Gruber Road Ramp to All American Freeway RAMP	At Grade	20	2	2 LT	S	8	8	N/A	N/A	N/A	Coastal Plain (0.7' - 5.0'): tan-brown to orange-brown, silty fine to coarse SAND with little clay (S-28: 1.0' - 3.5')	A-2-4	M	5	Moderate to High Severity Block Cracking	500,973	2,006,259
Gruber Road Station 16+00 RT-OSL	At Grade	11	Curb	3 LT	C	12	12	N/A	N/A	N/A	Coastal Plain (1.0' - 5.0'): tan-brown, silty fine to coarse SAND (S-24: 1.0' - 4.0')	A-2-4	M	5	Low to Moderate Severity Block Cracking	500,630	2,005,489
Gruber Road Station 16+00 RT-ISL	At Grade	12	N/A	20 LT	C	10	10	N/A	N/A	N/A	Coastal Plain (0.8' - 5.0'): tan-brown, silty fine to coarse SAND	A-2-4	M	5	Low to Moderate Severity Block Cracking	500,646	2,005,486
Gruber Road Station 16+00 CTL	At Grade	12	N/A	32 LT	C	9.5	9.5	N/A	N/A	N/A	Coastal Plain (0.8' - 5.0'): tan-brown to red-brown, silty fine to coarse SAND	A-2-4	M	5	High Severity Longitudinal (Non-Wheel Path) Cracking	500,658	2,005,483
Gruber Road Station 16+00 LT-ISL	At Grade	11	N/A	44 LT	C	9.5	9.5	N/A	N/A	N/A	Coastal Plain (0.8' - 5.0'): tan-brown to red-brown, silty fine to coarse SAND	A-2-4	M	5	Moderate to High Severity Transverse Cracking	500,670	2,005,481
Gruber Road Station 16+00 LT-OSL	At Grade	11	Curb	59 LT	C	10.5	10.5	N/A	N/A	N/A	No DCP or Auger performed due to subsurface utility conflict	N/A	N/A	X	Moderate to High Severity Transverse Cracking	500,684	2,005,478

Notes:

OSL = Outside Lane	CTL = Center Turn Lane	OSS = Outside Shoulder	DECEL = Deceleration Lane	EB = Eastbound	FW = From White Line	* All Stations are Approximate
ISL = Inside Lane	LTL = Left Turn Lane	ISS = Inside Shoulder	HA = Hand Auger	WB = Westbound		
RTL = Right Turn Lane	PS = Paved Shoulder	ACCEL = Acceleration Lane	N/M = not measured	FY = From Yellow Line		

PAVEMENT INVESTIGATION DATA SHEET

Project:	49218.26
TIP:	N/A

Route:	Gruber Road
County:	Cumberland

Date:	4/21/25 - 4/25/25
Notes:	B. Smith

SHEET 14

		Width (ft.)				Thickness (in.)					Subgrade					GPS Coordinates	
Position (Sta.,Lane,Shldr.)	Cut/Fill (Est. of Amount in feet)	Lane(s)	Shoulder	Offset Distance from White Line or Curb (ft.)	Crown "C" or Super "S" (in.)	Gross to Top of Soil	Asphalt	Concrete	ABC	Drainage Sand	Description	AASHTO Classification	Soil Moisture	Probe Depth (ft.)	Asphalt Notes	Northing	Easting
Gruber Road Station 23+00 RT-OSL	At Grade	12	Curb	4 LT	C	10.75	10.75	N/A	N/A	N/A	<u>Coastal Plain (0.9' - 5.0'):</u> brown, silty fine to coarse SAND	A-2-4	M	5	Low to Moderate Severity Transverse Cracking	500,767	2,006,136
Gruber Road Station 23+00 RT-ISL	At Grade	12	N/A	18 LT	C	9.5	9.5	N/A	N/A	N/A	<u>Coastal Plain (0.8' - 5.0'):</u> light tan-brown to orange-brown, silty, fine to coarse SAND (S-26: 1.0' - 3.5')	A-2-4	M	5	High Severity Transverse Cracking and Low to Moderate Severity Fatigue Cracking	500,781	2,006,133
Gruber Road Station 23+00 CTL	At Grade	12	N/A	30 LT	C	10.5	10.5	N/A	N/A	N/A	<u>Coastal Plain (0.9' - 5.0'):</u> light tan-brown to orange-brown, silty, fine to coarse SAND	A-2-4	M	5	High Severity Transverse Cracking and Low to Moderate Severity Fatigue Cracking	500,794	2,006,130
Gruber Road Station 23+00 LT-ISL	At Grade	11	N/A	46 LT	C	9	9	N/A	N/A	N/A	<u>Coastal Plain (0.8' - 5.0'):</u> light tan-brown to orange-brown, silty, fine to coarse SAND	A-2-4	M	5	Low to Moderate Severity Fatigue Cracking	500,808	2,006,127
Gruber Road Station 23+00 LT-OSL	At Grade	11	Curb	58 LT	C	9.25	9.25	N/A	N/A	N/A	No DCP or Auger performed due to subsurface utility conflict	N/A	N/A	X	Low Severity Transverse and Fatigue Cracking	500,820	2,006,125

Notes:

OSL = Outside Lane
ISL = Inside Lane
RTL = Right Turn Lane
CTL = Center Turn Lane
LTL = Left Turn Lane
PS = Paved Shoulder
OSS = Outside Shoulder
ISS = Inside Shoulder
ACCEL = Acceleration Lane
DECEL = Deceleration Lane
HA = Hand Auger
N/M = not measured
EB = Eastbound
WB = Westbound
FY = From Yellow Line
FW = From White Line

* All Stations are Approximate

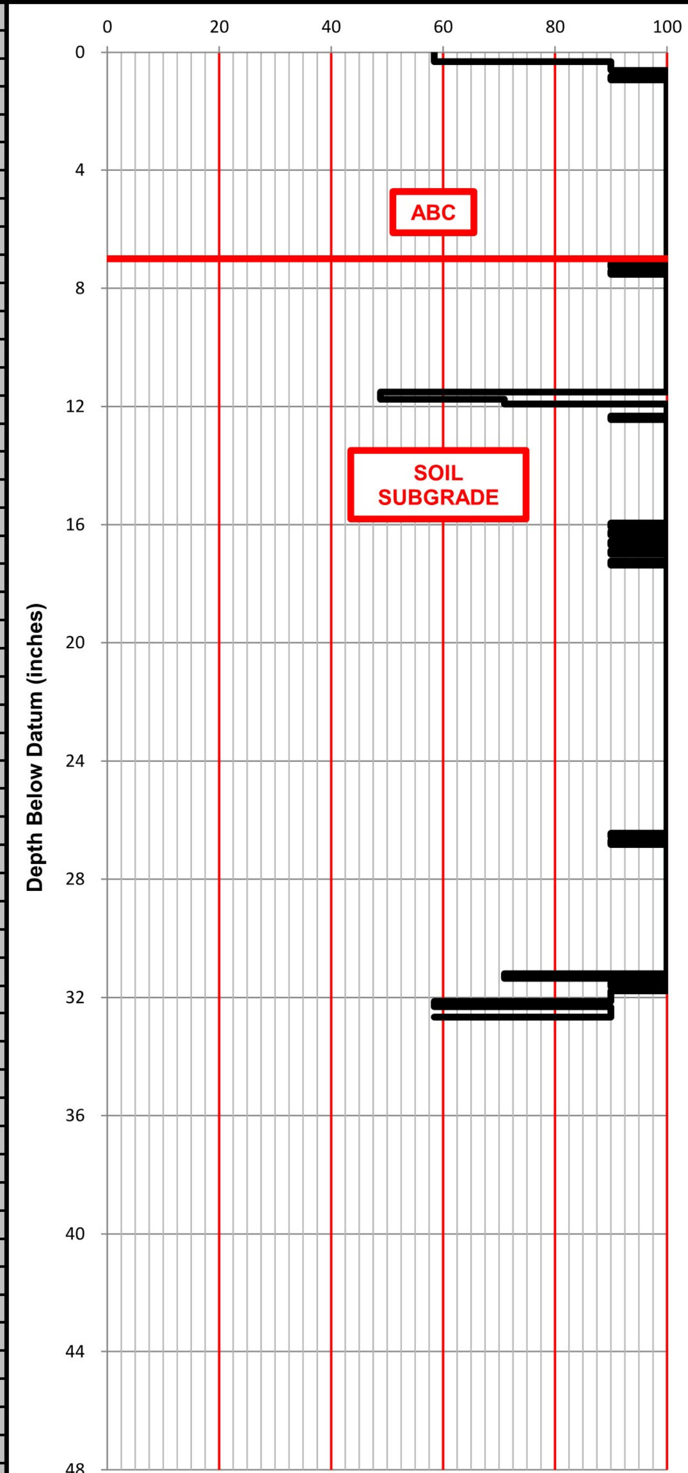
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 27+25 NB-ACCEL			4/21/2025
DATUM	CUT / FILL	NORTHING	EASTING
ABC	CUT	500,779	2,005,838

CUMULATIVE PENETRATION IN CENTIMETERS

0.6	10.9	22.0	35.8	50.9	66.6
1.0	11.1	22.2	36.1	51.2	66.7
1.4	11.3	22.5	36.3	51.5	67.0
1.7	11.5	22.7	36.6	51.8	67.4
1.9	11.7	22.9	36.9	52.1	67.6
2.3	11.9	23.1	37.1	52.4	68.0
2.5	12.0	23.4	37.4	52.7	68.3
2.8	12.2	23.6	37.7	53.0	68.6
3.1	12.4	23.8	37.9	53.3	68.9
3.3	12.6	24.1	38.2	53.6	69.2
3.5	12.8	24.3	38.5	53.9	69.5
3.6	13.0	24.5	38.8	54.2	69.8
3.7	13.2	24.8	39.0	54.5	70.1
4.0	13.4	25.0	39.3	54.8	70.4
4.3	13.6	25.2	39.6	55.1	70.7
4.4	13.8	25.4	39.8	55.4	71.0
4.5	13.9	25.7	40.1	55.7	71.3
4.7	14.1	25.9	40.2	56.0	71.6
4.8	14.3	26.1	40.3	56.3	71.9
5.0	14.5	26.4	40.7	56.6	72.2
5.1	14.7	26.6	41.0	56.9	72.5
5.3	14.9	26.8	41.4	57.2	72.8
5.5	15.1	27.1	41.7	57.5	73.1
5.6	15.3	27.3	41.9	57.8	73.4
5.8	15.5	27.5	42.3	58.1	73.7
5.9	15.7	27.7	42.6	58.4	74.0
6.1	15.8	28.0	42.7	58.7	74.3
6.3	16.0	28.2	43.1	59.0	74.6
6.4	16.2	28.4	43.3	59.3	74.9
6.6	16.4	28.7	43.6	59.6	75.2
6.7	16.6	28.9	44.0	59.9	75.5
6.9	16.7	29.6	44.3	60.2	75.8
7.1	17.0	30.1	44.6	60.5	76.1
7.2	17.1	30.4	44.9	60.8	76.4
7.4	17.3	30.6	45.2	61.1	76.7
7.5	17.6	30.9	45.5	61.4	77.0
7.7	17.9	31.1	45.8	61.7	77.3
7.9	18.0	31.5	46.1	62.0	77.6
8.0	18.4	31.7	46.4	62.3	77.9
8.2	18.6	32.0	46.7	62.6	78.2
8.3	19.0	32.3	47.0	62.9	78.5
8.5	19.2	32.5	47.3	63.2	78.8
8.8	19.5	32.8	47.6	63.5	79.0
9.0	19.7	33.1	47.9	63.8	79.5
9.2	19.9	33.4	48.2	64.1	79.8
9.4	20.2	33.6	48.5	64.4	80.2
9.6	20.4	33.9	48.8	64.7	80.5
9.8	20.6	34.2	49.1	65.0	80.9
10.0	20.8	34.4	49.4	65.3	81.3
10.1	21.1	34.7	49.7	65.6	81.9
10.3	21.3	35.0	50.0	65.9	82.3
10.5	21.5	35.2	50.3	66.2	82.7
10.7	21.8	35.5	50.6	66.5	83.3

CORRELATED CBR VALUES



Notes:
DCP REFUSAL (>50/4") IN SUBGRADE AT 32.7 INCHES
ABC = Aggregate Base Course

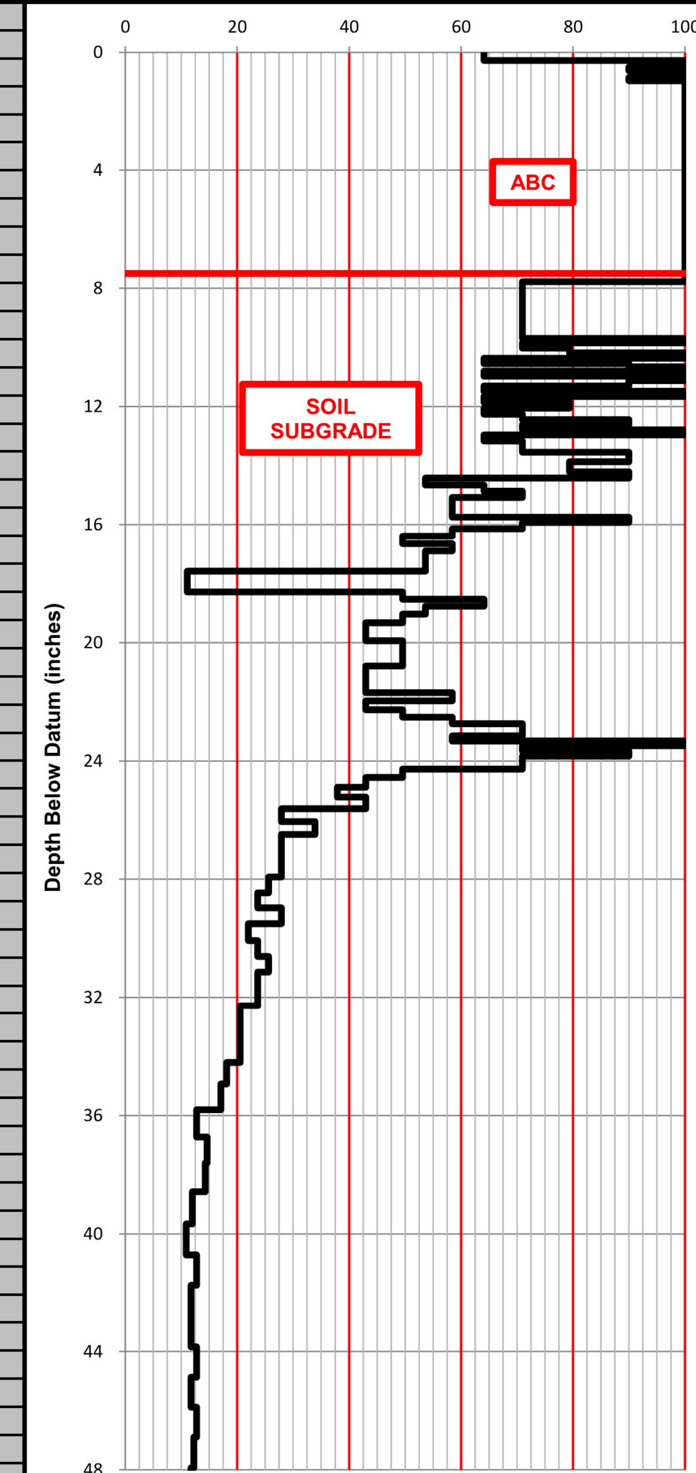
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 28+00 SB-OSS			4/22/2025
DATUM	CUT / FILL	NORTHING	EASTING
ABC	CUT	500,845	2,005,715

CUMULATIVE PENETRATION IN CENTIMETERS

0.6	11.0	29.0	61.3		
0.9	11.2	29.4	62.0		
1.0	11.4	29.9	62.8		
1.1	11.6	30.4	63.7		
1.5	11.8	30.9	64.5		
1.8	12.0	31.4	65.7		
2.0	12.2	31.8	66.7		
2.4	12.4	32.3	67.9		
2.6	12.5	32.7	69.1		
2.7	12.7	33.2	70.3		
2.9	12.9	33.7	71.6		
3.0	13.1	34.2	73.0		
3.3	13.3	34.6	74.2		
3.4	13.6	35.0	75.7		
3.6	13.8	35.5	77.1		
3.9	14.1	35.9	78.4		
4.1	14.3	36.3	79.8		
4.3	14.6	37.0	81.2		
4.6	14.9	37.5	82.8		
4.9	15.1	38.0	84.4		
5.1	15.4	38.6	86.0		
5.3	15.6	39.2	87.8		
5.5	15.9	39.8	89.7		
5.6	16.3	40.2	92.2		
6.0	16.6	40.7	94.4		
6.3	17.0	41.3	96.7		
6.4	17.3	42.0	99.3		
6.6	17.7	42.6	102.2		
6.9	18.1	43.3	104.7		
7.0	18.4	46.1	107.4		
7.2	18.8	46.8	110.1		
7.2	19.1	47.4	112.6		
7.3	19.5	48.0	115.3		
7.4	20.0	48.7	117.8		
7.5	20.5	49.5	120.4		
7.7	21.0	50.3	123.1		
7.9	21.5	51.0	126.0		
8.0	22.0	51.7	128.8		
8.2	22.5	52.4	131.0		
8.3	23.0	53.2	134.0		
8.5	23.5	54.0			
8.7	24.0	54.8			
8.8	24.5	55.4			
9.0	24.8	56.2			
9.1	25.3	56.9			
9.3	25.7	57.5			
9.5	26.1	58.0			
9.7	26.6	58.5			
9.9	27.0	59.1			
10.1	27.2	59.4			
10.4	27.7	59.9			
10.6	28.1	60.3			
10.8	28.5	60.8			

CORRELATED CBR VALUES



Notes:
ABC = Aggregate Base Course

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

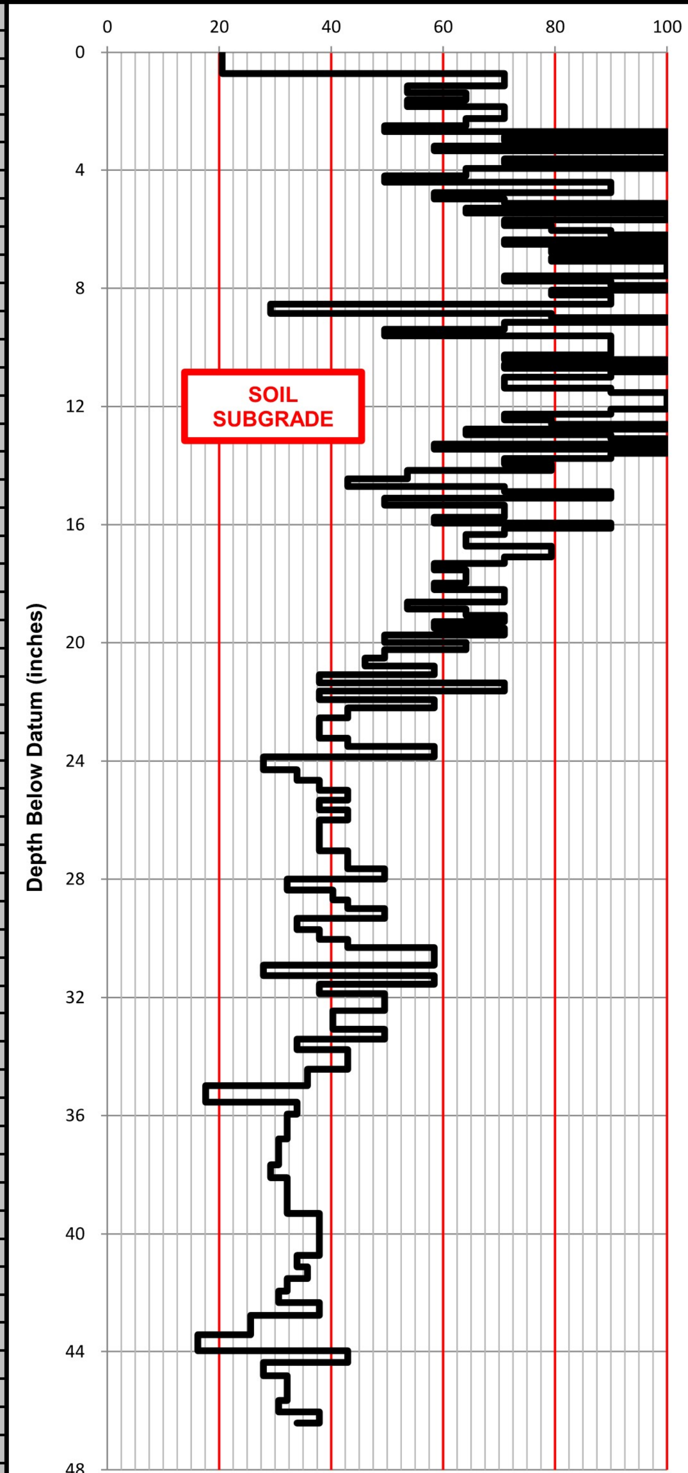
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 28+00 SB-OSS(2)			4/22/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	CUT	500,848	2,005,723

CUMULATIVE PENETRATION IN CENTIMETERS

1.6	25.4	51.1	97.3
2.1	25.8	51.8	98.4
2.6	26.3	52.5	99.4
3.3	26.6	53.1	100.3
3.8	27.1	54.0	101.2
4.5	27.3	54.5	102.1
5.0	27.7	55.4	103.0
5.5	28.2	56.0	104.0
6.0	28.7	56.8	105.0
6.7	29.1	57.7	106.0
7.0	29.5	58.6	107.1
7.5	29.8	59.4	108.0
7.8	30.2	60.0	109.3
8.4	30.5	61.2	111.3
8.6	30.9	62.2	112.1
9.0	31.4	63.1	113.3
9.5	31.9	63.9	114.4
9.8	32.2	64.8	115.4
10.3	32.7	65.6	116.5
11.0	33.1	66.5	117.4
11.4	33.4	67.4	118.4
11.8	34.0	68.3	
12.4	34.3	69.1	
12.9	34.7	69.9	
13.2	35.2	70.6	
13.7	35.7	71.7	
14.0	36.3	72.5	
14.2	37.1	73.3	
14.7	37.6	74.0	
15.2	38.0	75.0	
15.6	38.7	75.9	
15.9	39.2	76.7	
16.4	39.7	77.3	
16.7	40.3	77.9	
17.1	40.7	79.1	
17.5	41.2	79.7	
17.9	41.8	80.6	
18.1	42.3	81.3	
18.4	42.8	82.0	
18.7	43.2	82.9	
19.0	43.7	83.7	
19.5	44.3	84.4	
19.9	44.9	85.4	
20.3	45.4	86.2	
20.7	46.0	87.0	
21.1	46.5	88.0	
22.3	47.0	89.8	
22.7	47.7	90.8	
23.0	48.2	91.9	
23.5	48.7	92.9	
24.2	49.3	94.0	
24.6	49.8	95.1	
25.0	50.5	96.3	

CORRELATED CBR VALUES



Notes:
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

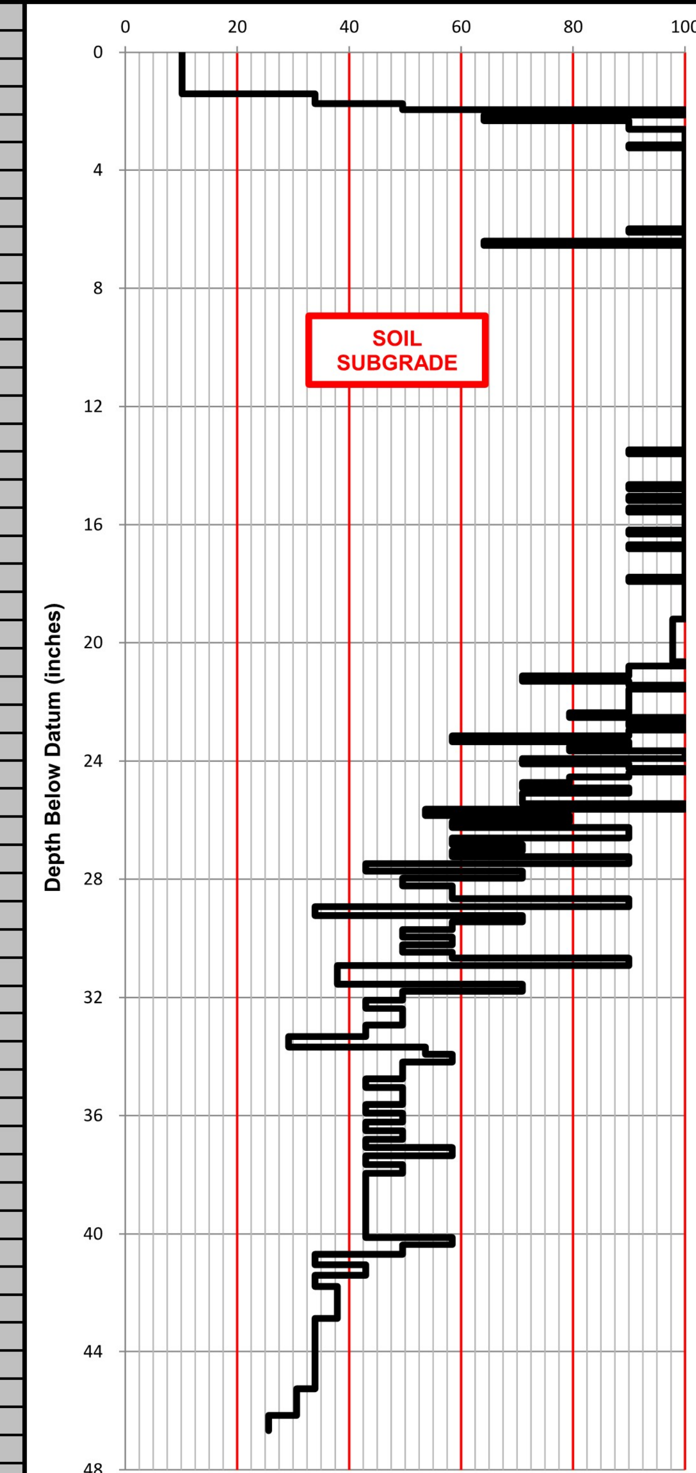
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 28+00 SB-OSL			4/22/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	CUT	500,850	2,005,731

CUMULATIVE PENETRATION IN CENTIMETERS

3.1	18.0	32.4	48.6	71.4	111.4
4.1	18.2	32.7	49.0	72.0	112.4
4.8	18.5	32.9	49.3	72.6	113.4
5.2	18.7	33.2	49.7	73.0	114.4
5.7	19.0	33.5	50.1	74.0	115.5
6.1	19.2	33.8	50.5	74.5	116.6
6.5	19.5	34.0	50.8	75.1	117.9
6.8	19.7	34.4	51.2	75.8	119.2
7.2	20.0	34.7	51.6	76.4	
7.5	20.2	35.0	51.9	77.1	
7.8	20.5	35.3	52.3	77.7	
8.2	20.7	35.6	52.6	78.1	
8.3	21.0	35.9	53.0	79.0	
8.6	21.2	36.2	53.4	79.9	
8.8	21.5	36.5	53.9	80.4	
9.0	21.7	36.7	54.3	81.1	
9.3	22.0	37.0	54.6	81.9	
9.5	22.3	37.4	55.0	82.6	
9.7	22.6	37.7	55.4	83.3	
10.1	22.9	38.0	55.8	84.1	
10.2	23.2	38.4	56.2	85.3	
10.5	23.4	38.7	56.6	85.9	
10.8	23.7	39.0	57.1	86.5	
11.0	24.0	39.4	57.4	87.2	
11.3	24.3	39.7	57.8	87.9	
11.5	24.6	40.0	58.1	88.7	
11.7	24.9	40.3	58.5	89.4	
11.9	25.2	40.6	59.1	90.1	
12.2	25.5	40.9	59.5	90.9	
12.5	25.8	41.3	60.0	91.6	
12.7	26.1	41.6	60.2	92.4	
12.8	26.4	42.0	60.5	93.1	
13.0	26.7	42.2	61.0	93.9	
13.2	27.0	42.6	61.4	94.5	
13.4	27.3	42.9	61.8	95.3	
13.6	27.6	43.0	62.2	96.0	
13.8	27.9	43.2	62.6	96.8	
14.0	28.1	43.5	63.1	97.6	
14.3	28.4	43.8	63.5	98.4	
14.5	28.6	44.1	64.0	99.2	
14.7	28.9	44.4	64.5	100.0	
14.8	29.2	44.7	64.8	100.8	
15.0	29.4	45.0	65.5	101.6	
15.4	29.7	45.4	65.9	102.2	
15.6	29.9	45.7	66.5	102.9	
15.8	30.2	46.0	66.9	103.9	
16.0	30.5	46.4	67.3	104.7	
16.6	30.8	46.7	67.9	105.7	
16.7	31.1	47.0	68.4	106.6	
17.0	31.4	47.3	69.0	107.5	
17.2	31.7	47.6	69.4	108.4	
17.5	31.9	48.0	70.2	109.4	
17.7	32.2	48.3	70.7	110.4	

CORRELATED CBR VALUES



Notes:
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

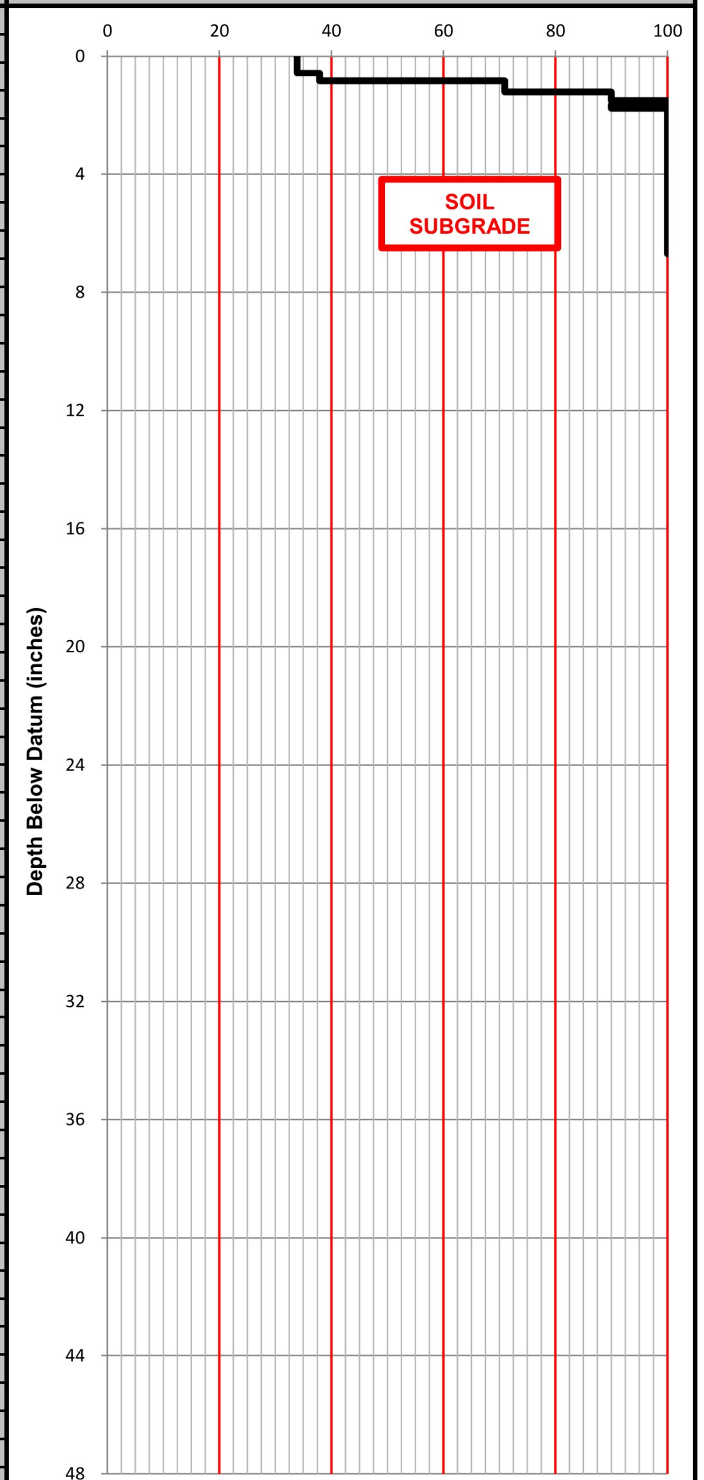
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 28+00 SB-ISL			4/23/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
SG	CUT	500,854	2,005,743

CUMULATIVE PENETRATION IN CENTIMETERS

1.0	13.9
1.9	14.1
2.4	14.3
2.9	14.5
3.3	14.6
3.7	14.8
4.0	15.0
4.4	15.1
4.6	15.3
4.9	15.5
5.2	15.7
5.4	15.8
5.6	16.0
5.8	16.2
6.1	16.4
6.3	16.6
6.5	16.7
6.7	16.9
6.9	17.1
7.2	
7.4	
7.6	
7.9	
8.1	
8.4	
8.6	
8.9	
9.2	
9.4	
9.7	
9.9	
10.2	
10.4	
10.6	
10.7	
10.9	
11.1	
11.3	
11.5	
11.6	
11.8	
12.0	
12.2	
12.3	
12.5	
12.6	
12.8	
13.0	
13.1	
13.3	
13.4	
13.6	
13.8	

CORRELATED CBR VALUES



Notes:
DCP REFUSAL (>50/4") IN SUBGRADE AT 6.7 INCHES
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

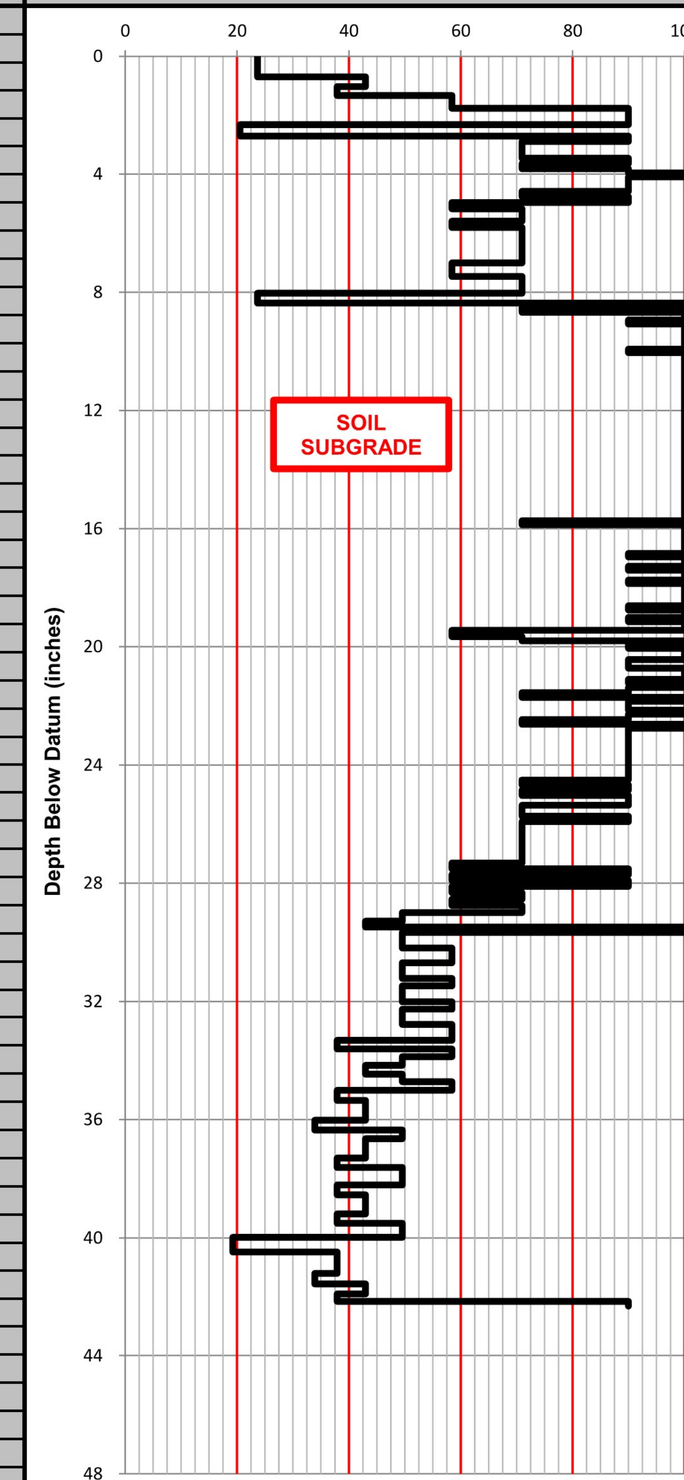
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 28+00 SB-ISS			4/23/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
SG	CUT	500,856	2,005,751

CUMULATIVE PENETRATION IN CENTIMETERS

1.4	26.4	40.7	56.8	84.2
2.2	26.7	41.0	57.3	85.1
3.1	26.9	41.3	57.6	85.7
3.7	27.2	41.6	58.0	86.4
4.3	27.5	41.8	58.4	87.2
4.7	27.8	42.0	58.8	87.9
5.1	28.0	42.3	59.2	88.5
6.7	28.3	42.6	59.6	89.4
7.1	28.6	43.0	60.0	90.2
7.6	28.8	43.2	60.4	91.0
8.1	29.1	43.4	60.8	92.0
8.6	29.3	43.7	61.2	92.7
9.0	29.6	44.1	61.6	93.5
9.5	29.8	44.4	62.0	94.3
9.9	30.1	44.6	62.5	95.2
10.2	30.3	44.9	62.9	95.9
10.6	30.5	45.3	63.4	96.6
11.0	30.8	45.5	63.8	97.5
11.4	31.0	45.8	64.2	98.3
11.9	31.3	46.1	64.7	99.1
12.3	31.5	46.4	65.2	100.0
12.9	31.7	46.7	65.6	100.7
13.4	32.0	47.0	66.1	102.4
13.9	32.2	47.1	66.6	103.3
14.5	32.5	47.5	67.1	104.2
15.0	32.7	47.8	67.6	105.2
15.5	32.9	48.1	68.1	106.0
16.0	33.2	48.5	68.6	106.9
16.5	33.4	48.8	69.1	107.3
17.0	33.7	49.1	69.7	107.7
17.5	33.9	49.7	70.1	
18.1	34.2	50.2	70.7	
18.7	34.4	50.4	71.1	
19.2	34.7	50.8	71.7	
19.7	34.9	51.1	72.2	
21.1	35.2	51.4	72.8	
21.4	35.5	51.7	73.3	
21.9	35.7	52.1	74.0	
22.2	36.0	52.5	74.8	
22.5	36.2	52.8	75.0	
22.9	36.5	52.9	75.7	
23.2	36.8	53.0	76.4	
23.4	37.1	53.1	77.0	
23.7	37.5	53.2	77.6	
24.0	37.8	53.4	78.3	
24.2	38.1	53.8	79.0	
24.5	38.4	54.1	79.6	
24.8	38.7	54.5	80.3	
25.0	39.1	55.0	81.0	
25.4	39.4	55.3	81.6	
25.6	39.7	55.7	82.3	
25.8	40.2	56.1	83.0	
26.1	40.4	56.4	83.6	

CORRELATED CBR VALUES



Notes:
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

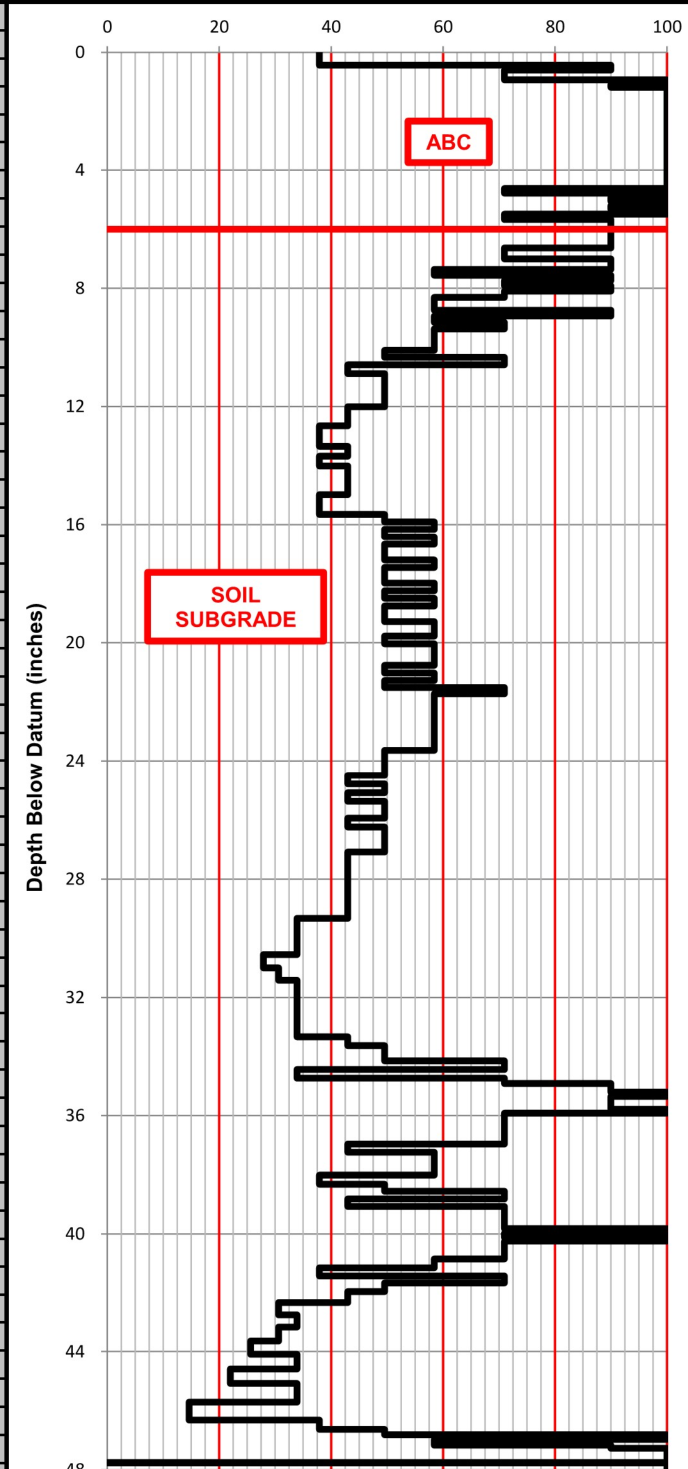
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 28+50 NB-OSS			4/24/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
ABC	CUT	500,894	2,005,852

CUMULATIVE PENETRATION IN CENTIMETERS

0.9	16.2	50.6	89.6	121.0	
1.3	16.6	51.2	90.0	121.2	
1.8	17.1	51.8	90.4	121.3	
2.3	17.6	52.4	90.8	121.3	
2.5	18.0	53.1	91.0	121.4	
2.6	18.4	53.7	91.5	121.4	
3.0	19.0	54.4	92.0	121.5	
3.1	19.4	54.9	92.5	121.6	
3.3	19.9	55.5	93.0	121.7	
3.6	20.3	56.1	93.5	121.7	
3.7	20.8	56.7	94.3	121.8	
3.9	21.4	57.3	94.9	121.9	
4.1	22.0	57.9	95.5	121.9	
4.2	22.4	58.5	96.1	122.0	
4.4	23.0	59.1	97.0		
4.6	23.5	59.7	97.7		
4.8	24.1	60.4	98.2		
5.0	24.7	61.1	99.0		
5.1	25.3	61.8	99.5		
5.3	26.0	62.6	100.0		
5.5	26.5	63.3	100.5		
5.8	27.3	64.1	101.0		
6.0	28.0	64.8	101.3		
6.3	28.7	65.5	101.8		
6.5	29.4	66.3	102.0		
6.8	30.1	67.0	102.5		
7.0	30.9	67.7	103.0		
7.3	31.7	68.4	103.5		
7.5	32.6	69.2	104.1		
7.8	33.5	70.0	105.0		
8.0	34.3	70.8	105.5		
8.3	35.2	71.6	106.2		
8.6	36.0	72.4	107.0		
9.0	36.8	73.2	108.1		
9.3	37.6	74.0	109.1		
9.6	38.5	75.0	110.2		
9.9	39.4	76.0	111.5		
10.2	40.1	77.0	112.5		
10.6	40.7	78.2	114.0		
10.9	41.4	79.3	115.0		
11.2	42.0	80.3	117.2		
11.5	42.7	81.3	118.1		
12.0	43.4	82.3	118.8		
12.3	44.0	83.3	119.0		
12.7	44.7	84.3	119.6		
13.0	45.4	85.1	120.0		
13.4	46.0	85.8	120.1		
13.7	46.7	86.5	120.3		
14.2	47.3	87.0	120.4		
14.6	48.0	88.0	120.5		
15.0	48.7	88.5	120.7		
15.4	49.3	88.9	120.8		
15.8	49.9	89.3	120.9		

CORRELATED CBR VALUES



Notes:
ABC = Aggregate Base Course

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

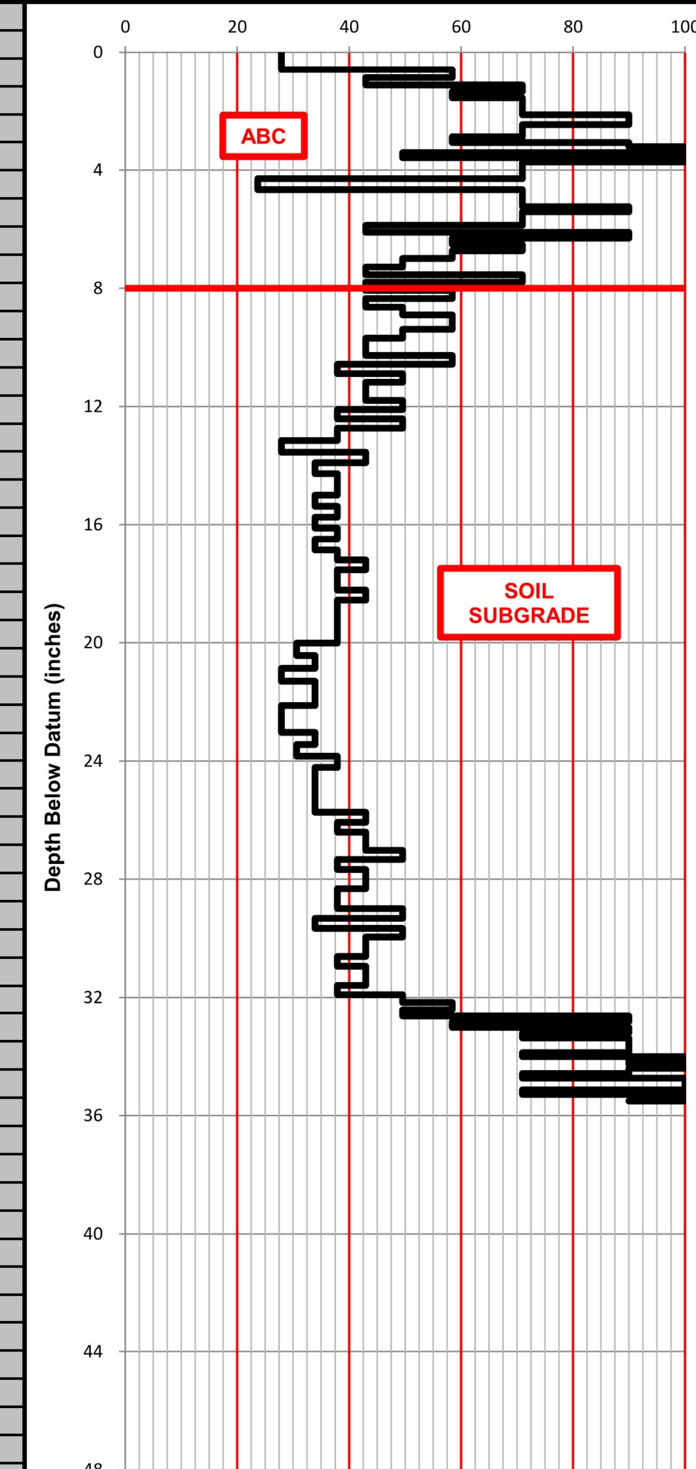
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 28+50 NB-DECEL			4/24/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
ABC	CUT	500,892	2,005,847

CUMULATIVE PENETRATION IN CENTIMETERS

1.2	34.8	82.7			
1.8	35.8	83.1			
2.6	36.7	83.7			
3.1	37.6	84.1			
3.7	38.6	84.6			
4.2	39.5	85.0			
4.7	40.5	85.4			
5.2	41.4	85.8			
5.6	42.4	86.3			
6.0	43.3	86.5			
6.5	44.1	86.9			
7.0	45.0	87.2			
7.6	45.9	87.6			
8.0	46.7	88.1			
8.3	47.6	88.4			
9.0	48.5	88.7			
9.2	49.4	89.0			
9.7	50.3	89.5			
10.2	51.4	89.8			
11.6	52.4	90.0			
12.1	53.6	90.4			
12.6	54.6				
13.1	55.6				
13.5	56.8				
14.0	58.0				
14.5	59.0				
15.3	60.1				
15.7	61.0				
16.3	62.0				
16.8	63.0				
17.4	64.0				
18.1	65.0				
18.9	65.8				
19.4	66.7				
20.2	67.5				
20.8	68.3				
21.6	69.0				
22.3	69.9				
22.9	70.7				
23.5	71.5				
24.2	72.4				
25.0	73.3				
25.8	74.0				
26.4	75.0				
27.3	75.7				
28.0	76.5				
28.8	77.3				
29.6	78.2				
30.3	79.0				
31.2	79.8				
31.9	80.7				
32.8	81.4				
34.0	82.0				

CORRELATED CBR VALUES



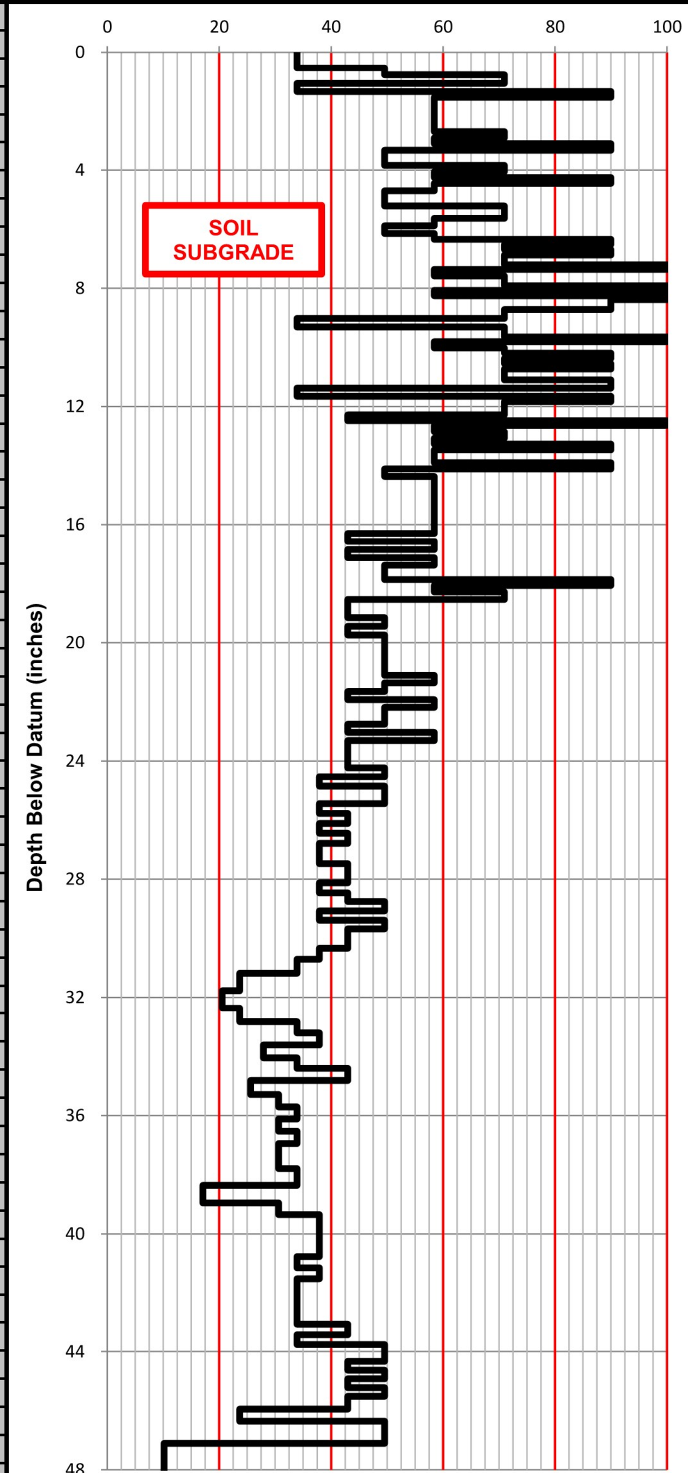
Notes:
DCP REFUSAL (>50/4") IN SUBGRADE AT 35.5 INCHES
ABC = Aggregate Base Course

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN	CORRELATED CBR VALUES
AAF 28+50 NB-DECEL(2)			4/24/2025	
DATUM	CUT / FILL	NORTHING	EASTING	
SG	CUT	500,891	2,005,841	

CUMULATIVE PENETRATION IN CENTIMETERS

1.0	29.4	63.5	114.5		
1.7	29.8	64.2	115.2		
2.2	30.3	65.1	116.0		
3.2	30.8	65.9	117.4		
3.6	31.6	66.8	118.1		
4.2	31.8	67.6	121.2		
4.8	32.4	68.5	123.9		
5.4	32.9	69.4	129.4		
6.0	33.5	70.2			
6.6	33.9	71.0			
7.1	34.5	71.9			
7.7	35.1	72.7			
8.1	35.5	73.4			
8.8	36.2	74.3			
9.5	36.8	75.0			
10.0	37.4	75.8			
10.6	38.0	76.6			
11.0	38.6	77.5			
11.6	39.2	78.5			
12.3	39.8	79.9			
13.0	40.4	81.5			
13.5	41.0	82.9			
14.0	41.8	83.9			
14.6	42.4	84.8			
15.3	43.2	86.0			
15.9	43.8	87.0			
16.3	44.5	87.8			
16.8	45.2	89.1			
17.2	45.6	90.2			
17.7	46.2	91.2			
18.2	46.7	92.3			
18.4	47.5	93.3			
19.0	48.3	94.4			
19.5	49.0	95.5			
20.0	49.8	96.5			
20.2	50.5	98.4			
20.8	51.2	99.5			
21.1	51.9	100.4			
21.5	52.6	101.3			
21.9	53.3	102.2			
22.4	53.9	103.1			
23.4	54.6	104.1			
23.9	55.4	105.0			
24.4	56.0	106.0			
24.6	56.7	107.0			
25.2	57.4	108.0			
25.7	58.2	109.0			
26.1	58.8	109.8			
26.6	59.6	110.8			
27.0	60.4	111.5			
27.5	61.2	112.2			
28.0	61.9	113.0			
28.4	62.8	113.7			



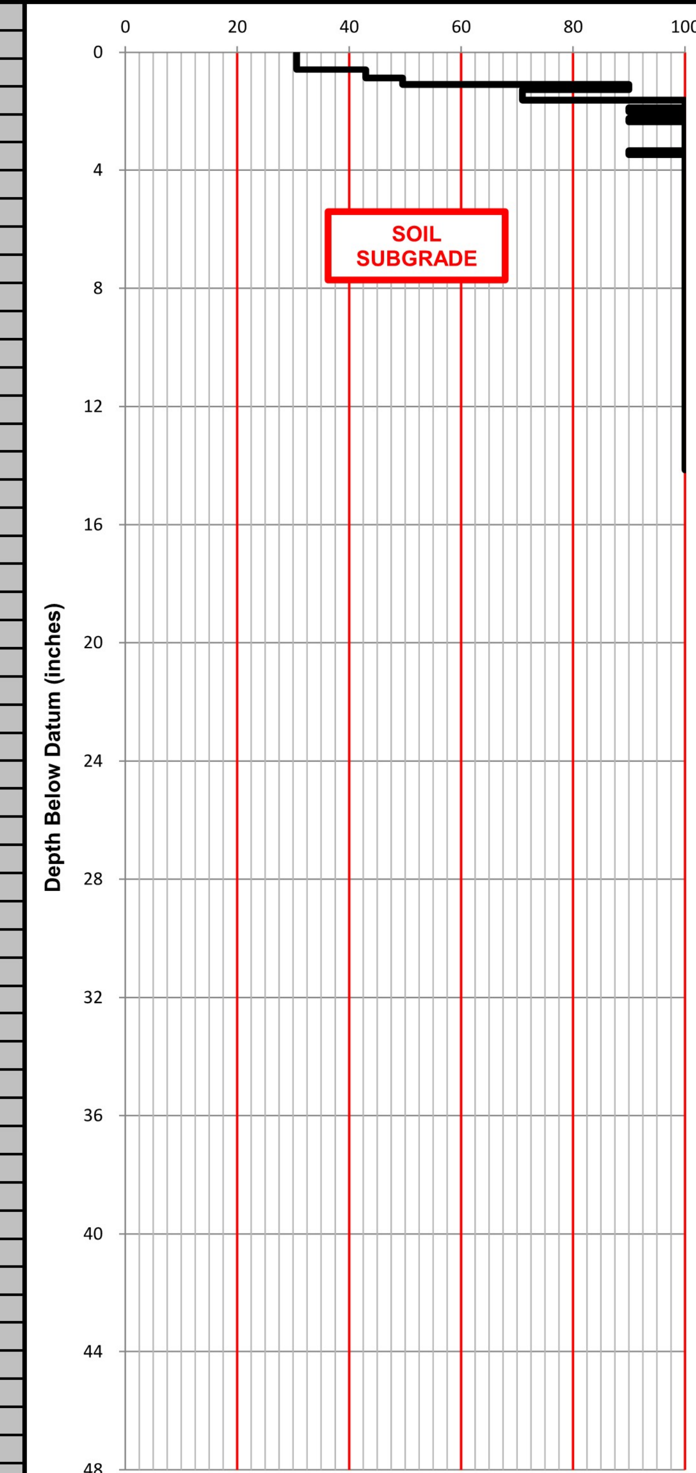
Notes:
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN	CORRELATED CBR VALUES
AAF 28+50 NB-OSL			4/24/2025	
DATUM	CUT / FILL	NORTHING	EASTING	
SG	CUT	500,974	2,005,805	

CUMULATIVE PENETRATION IN CENTIMETERS

1.1	16.1	28.7	34.7		
1.9	16.3	29.0	34.9		
2.6	16.6	29.2	35.0		
3.0	16.8	29.4	35.2		
3.5	17.1	29.5	35.3		
4.0	17.3	29.7	35.4		
4.3	17.6	29.9	35.6		
4.6	17.8	30.1	35.7		
5.0	18.1	30.2	35.9		
5.3	18.3	30.4	36.0		
5.5	18.5	30.6			
5.9	18.8	30.7			
6.1	19.0	30.9			
6.4	19.3	31.0			
6.6	19.5	31.1			
6.9	19.7	31.2			
7.1	20.0	31.3			
7.3	20.2	31.4			
7.5	20.5	31.5			
7.8	20.7	31.6			
8.0	20.9	31.7			
8.3	21.1	31.8			
8.7	21.4	31.9			
9.0	21.6	32.0			
9.2	21.9	32.1			
9.5	22.1	32.2			
9.8	22.4	32.3			
10.1	22.6	32.4			
10.3	22.9	32.4			
10.6	23.1	32.5			
10.9	23.4	32.6			
11.1	23.6	32.7			
11.4	23.9	32.8			
11.6	24.1	32.9			
11.8	24.4	32.9			
12.1	24.6	33.0			
12.3	24.8	33.1			
12.5	25.1	33.2			
12.7	25.4	33.2			
12.9	25.5	33.3			
13.2	25.8	33.4			
13.4	26.0	33.4			
13.6	26.2	33.5			
13.8	26.4	33.6			
14.0	26.7	33.7			
14.3	26.9	33.8			
14.5	27.1	33.9			
14.7	27.4	34.1			
14.9	27.7	34.2			
15.1	27.9	34.3			
15.4	28.0	34.4			
15.6	28.3	34.5			
15.8	28.5	34.6			



Notes:
DCP REFUSAL (>50/4") IN SUBGRADE AT 14.2 INCHES
SG = Subgrade

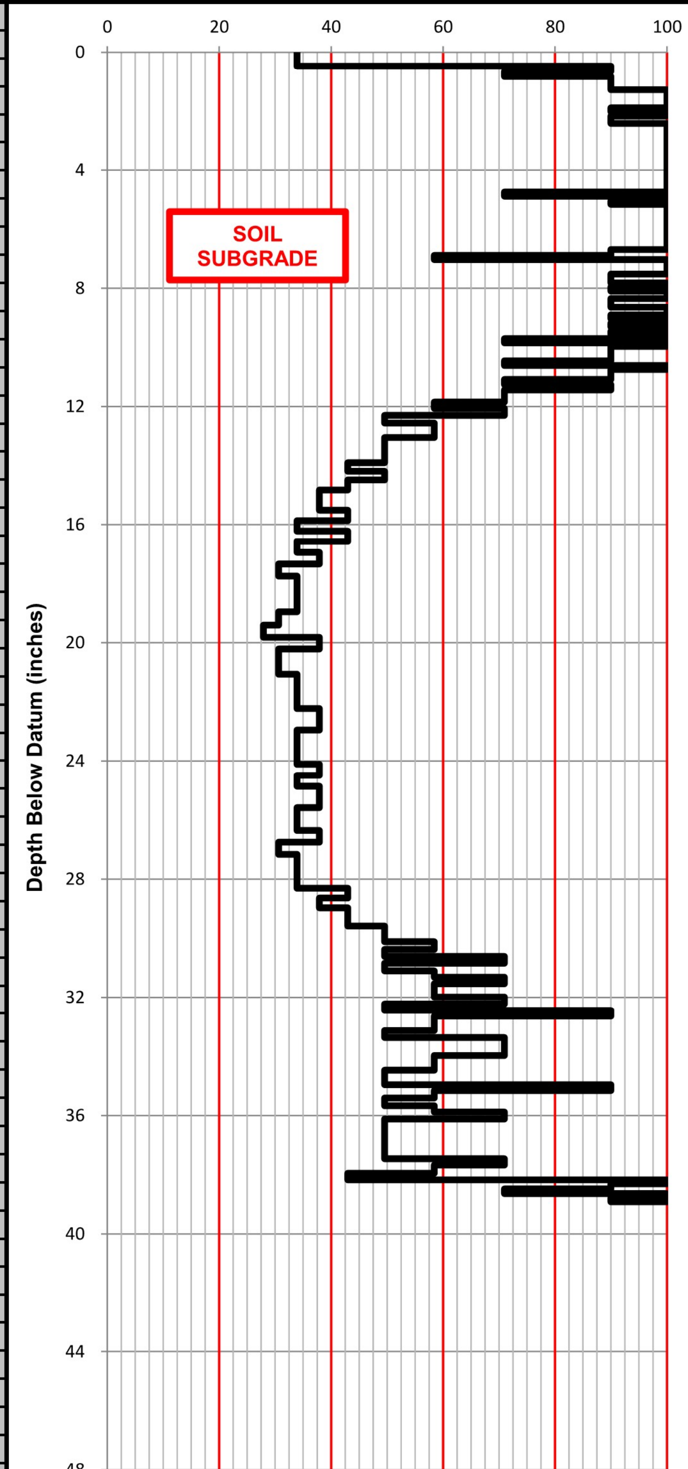
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 28+50 NB-ISL			4/21/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	CUT	500,903	2,005,814

CUMULATIVE PENETRATION IN CENTIMETERS

1.0	15.4	37.2	83.2	
1.4	15.7	38.1	83.8	
1.9	15.9	39.0	84.5	
2.3	16.1	39.8	85.0	
2.7	16.3	40.8	85.5	
3.1	16.6	41.6	86.0	
3.4	16.8	42.6	86.6	
3.7	17.2	43.5	87.2	
4.0	17.8	44.6	87.9	
4.2	17.9	45.6	88.6	
4.5	18.1	46.6	89.0	
4.6	18.4	47.6	89.6	
5.0	18.7	48.7	90.3	
5.3	18.9	49.9	90.9	
5.7	19.3	50.8	91.4	
6.1	19.7	51.9	92.1	
6.2	20.0	53.0	92.8	
6.4	20.4	54.0	93.5	
6.7	20.7	55.0	94.2	
7.0	21.0	56.0	94.9	
7.2	21.4	56.9	95.4	
7.5	21.8	57.8	96.0	
7.8	22.1	58.8	96.8	
8.0	22.4	59.8	97.1	
8.3	22.8	60.8	97.5	
8.6	23.1	61.7	98.0	
8.7	23.5	62.7	98.3	
9.0	23.8	63.6	98.7	
9.2	24.2	64.5	99.0	
9.5	24.4	65.5		
9.7	24.9	66.5		
9.9	25.1	67.4		
10.1	25.5	68.5		
10.3	25.9	69.5		
10.5	26.3	70.5		
10.7	26.8	71.5		
11.0	27.1	72.3		
11.2	27.5	73.2		
11.5	27.9	74.0		
11.8	28.4	74.8		
12.3	28.8	75.5		
12.5	29.3	76.2		
12.6	29.8	76.8		
13.0	30.4	77.5		
13.2	30.9	78.0		
13.5	31.6	78.7		
13.7	32.2	79.3		
14.0	32.8	79.8		
14.2	33.5	80.4		
14.5	34.2	81.0		
14.7	34.9	81.5		
15.0	35.7	82.2		
15.2	36.4	82.6		

CORRELATED CBR VALUES



Notes:
SG = Subgrade

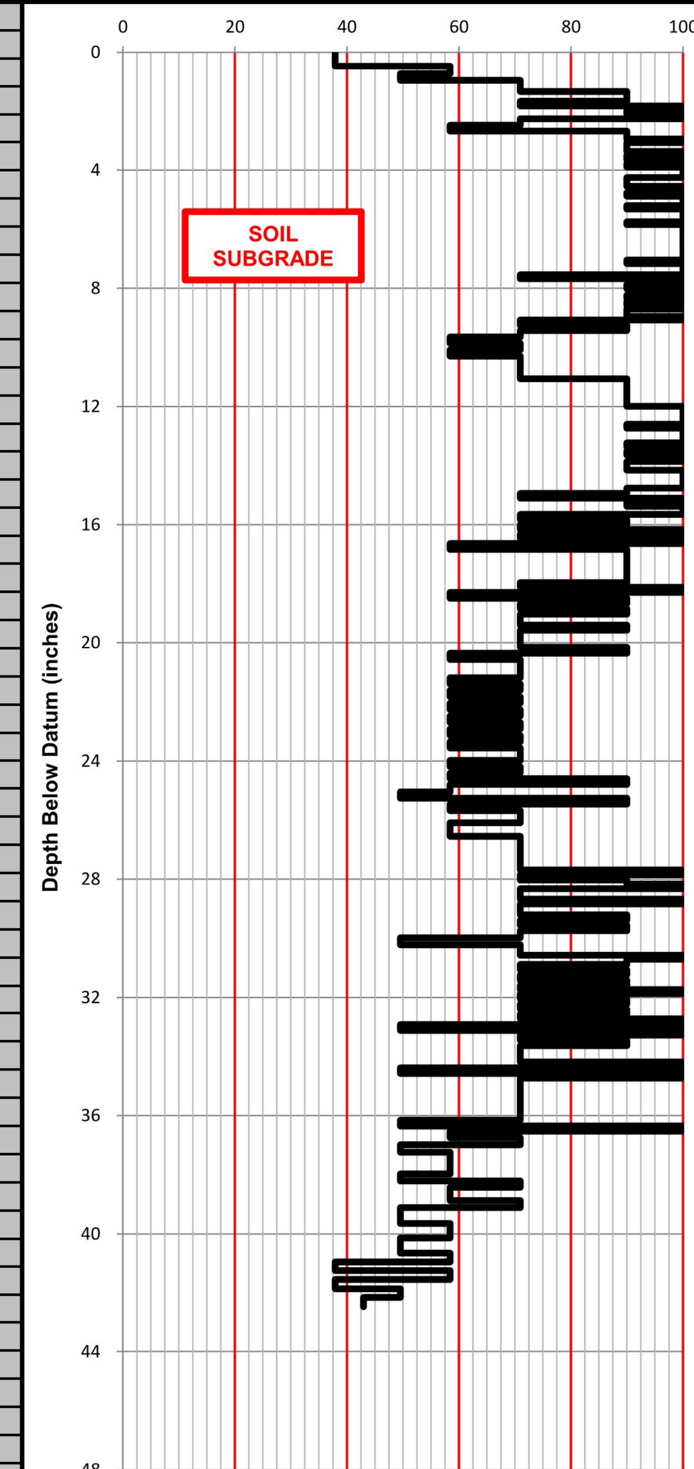
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 28+50 NB-ISS			4/21/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	CUT	500,900	2,005,804

CUMULATIVE PENETRATION IN CENTIMETERS

0.9	18.3	37.3	62.3	87.0
1.5	18.6	37.7	62.7	87.7
2.2	18.9	38.2	63.3	88.0
2.7	19.4	38.5	64.0	88.5
3.2	19.6	38.9	64.4	89.0
3.6	19.8	39.2	65.0	89.5
4.0	20.2	39.5	65.5	90.0
4.5	20.5	40.0	66.0	90.5
4.8	20.7	40.4	66.6	91.0
5.2	21.1	40.9	67.2	91.5
5.5	21.3	41.2	67.7	92.2
6.0	21.7	41.7	68.2	92.5
6.6	21.9	42.0	68.7	93.1
7.0	22.3	42.6	69.2	93.6
7.4	22.7	43.0	69.7	94.3
7.6	22.8	43.4	70.2	94.9
8.0	23.3	43.8	70.5	95.5
8.4	23.7	44.2	71.0	96.1
8.7	24.2	44.6	71.4	96.8
9.1	24.8	45.0	71.7	97.3
9.4	25.3	45.4	72.2	97.9
9.8	25.9	45.9	72.7	98.5
10.0	26.4	46.2	73.0	99.0
10.3	26.9	46.8	73.5	99.7
10.6	27.4	47.2	74.0	100.4
11.0	27.9	47.7	74.4	101.0
11.4	28.3	48.1	74.9	101.6
11.7	28.7	48.6	75.3	102.3
11.9	29.1	49.1	75.8	103.0
12.3	29.5	49.5	76.5	103.6
12.5	29.9	50.0	77.0	104.5
12.8	30.3	50.5	77.5	105.1
13.0	30.6	51.0	77.8	106.0
13.4	30.9	51.4	78.2	106.7
13.6	31.2	52.0	78.7	107.5
13.9	31.5	52.5	79.1	108.3
14.1	31.8	53.0	79.6	
14.4	32.2	53.5	80.0	
14.8	32.5	54.1	80.5	
14.9	32.8	54.6	80.7	
15.2	33.1	55.2	81.2	
15.5	33.4	55.7	81.6	
15.7	33.8	56.3	82.1	
16.0	34.1	56.8	82.5	
16.3	34.5	57.4	83.0	
16.5	34.8	57.9	83.3	
16.7	35.0	58.5	84.0	
16.8	35.4	59.0	84.3	
17.0	35.8	59.6	84.8	
17.3	36.1	60.1	85.2	
17.5	36.4	60.6	85.7	
17.7	36.7	61.2	86.2	
18.1	37.0	61.7	86.7	

CORRELATED CBR VALUES



Notes:
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

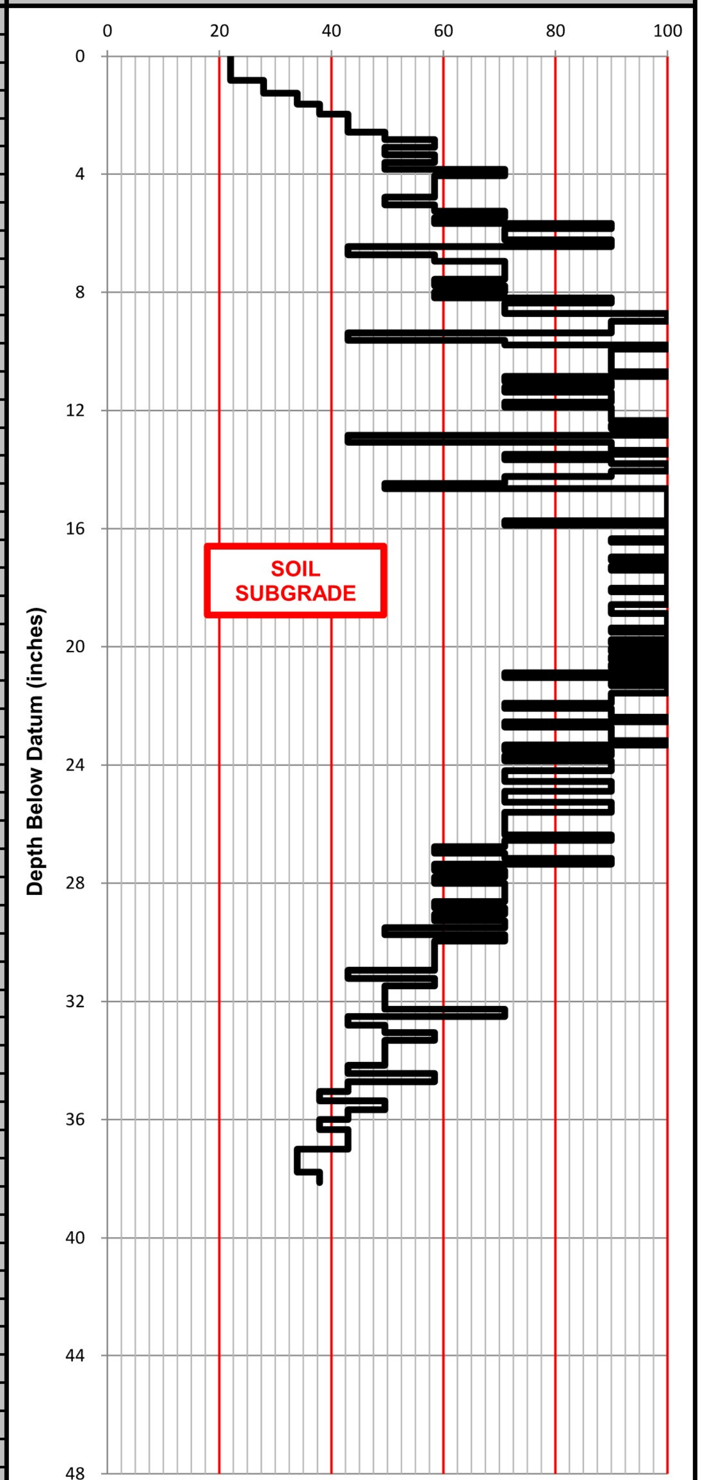
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 39+00 NB-OSS			4/23/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
SG	CUT	501,976	2,005,536

CUMULATIVE PENETRATION IN CENTIMETERS

1.5	30.4	48.4	70.3
2.7	30.8	48.7	70.9
3.7	31.2	49.0	71.4
4.6	31.5	49.4	71.9
5.4	31.9	49.7	72.4
6.2	32.2	50.0	73.0
6.9	33.0	50.4	73.5
7.5	33.4	50.7	74.1
8.2	33.8	51.1	74.6
8.8	34.0	51.4	75.3
9.5	34.5	51.8	75.8
10.0	34.9	52.1	76.4
10.6	35.2	52.5	77.0
11.2	35.5	52.8	77.6
11.8	35.9	53.3	78.2
12.5	36.4	53.6	79.0
13.1	37.1	54.0	79.6
13.6	37.3	54.3	80.3
14.2	37.6	54.6	81.0
14.6	37.9	55.0	81.7
15.1	38.2	55.4	82.2
15.6	38.5	55.9	83.0
16.0	38.8	56.3	83.7
16.8	39.1	56.7	84.3
17.4	39.4	57.0	85.0
17.9	39.7	57.5	85.7
18.4	40.2	57.9	86.4
18.9	40.5	58.3	87.2
19.5	40.8	58.7	87.8
20.0	41.1	59.0	88.6
20.6	41.3	59.5	89.5
21.0	41.7	59.9	90.2
21.5	42.0	60.4	91.0
22.0	42.3	60.8	91.9
22.3	42.6	61.2	92.7
22.6	42.9	61.7	93.5
23.0	43.3	62.2	94.5
23.4	43.5	62.6	95.5
24.2	43.7	63.0	96.4
24.7	44.1	63.5	97.3
25.0	44.4	64.0	
25.4	44.7	64.4	
25.8	45.0	64.8	
26.2	45.3	65.3	
26.6	45.6	65.8	
27.0	46.0	66.3	
27.3	46.2	66.8	
27.8	46.5	67.2	
28.2	46.7	67.7	
28.7	47.0	68.3	
29.1	47.4	68.8	
29.5	47.8	69.2	
30.0	48.1	69.8	

CORRELATED CBR VALUES



Notes:
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

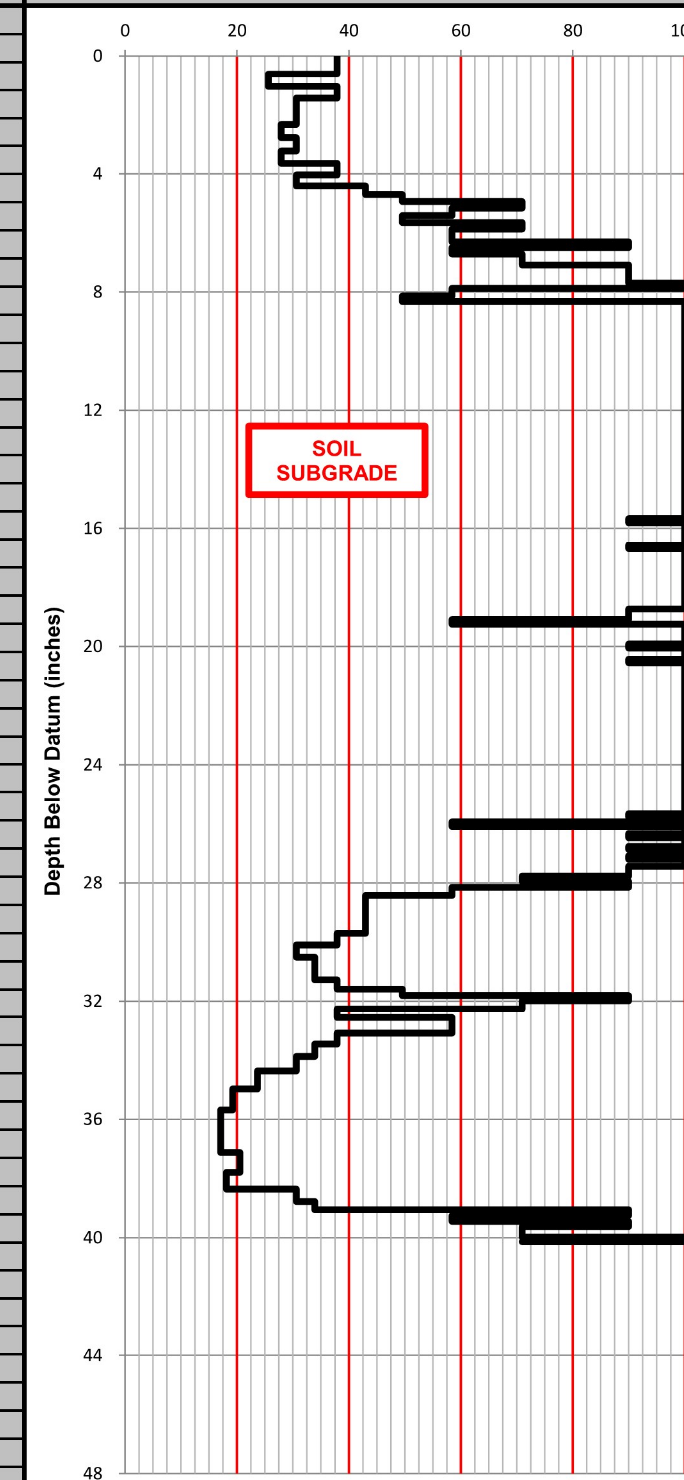
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 39+00 NB-ACCEL			4/23/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
SG	CUT	501,973	2,005,526

CUMULATIVE PENETRATION IN CENTIMETERS

0.9	27.0	38.7	54.0	67.8
2.2	27.2	39.0	54.2	68.2
3.1	27.4	39.2	54.5	68.3
4.2	27.6	39.4	54.8	68.6
5.3	27.8	39.6	55.0	69.0
6.5	28.0	40.0	55.2	69.2
7.6	28.2	40.3	55.4	69.5
8.8	28.4	40.5	55.7	69.9
9.7	28.7	40.8	56.0	70.3
10.8	28.9	41.1	56.2	70.8
11.6	29.1	41.4	56.4	71.2
12.3	29.3	41.6	56.6	71.8
12.8	29.5	41.9	56.8	72.6
13.4	29.8	42.3	57.0	73.4
14.1	30.0	42.5	57.3	74.2
14.6	30.2	42.8	57.5	75.0
15.2	30.4	43.0	57.7	75.9
15.8	30.7	43.3	57.9	77.0
16.2	30.9	43.6	58.2	78.0
16.8	31.1	43.8	58.4	79.0
17.3	31.4	44.0	58.7	79.9
17.8	31.6	44.3	58.9	80.6
18.2	31.8	44.5	59.2	81.0
18.6	32.0	44.8	59.4	81.5
19.0	32.3	45.1	59.7	82.4
19.4	32.5	45.4	60.0	83.0
19.7	32.7	45.6	60.3	83.6
20.3	32.9	45.9	60.6	84.5
21.0	33.1	46.2	60.9	85.5
21.3	33.3	46.5	61.1	86.6
21.5	33.5	46.8	61.3	88.0
21.8	33.7	47.1	61.6	89.7
22.0	33.9	47.4	61.9	91.6
22.3	34.1	47.8	62.2	93.5
22.6	34.3	48.2	62.5	95.1
22.8	34.5	48.8	62.8	96.9
23.1	34.7	49.0	63.1	98.0
23.3	35.0	49.3	63.4	99.0
23.6	35.2	49.6	63.7	99.4
23.8	35.4	49.8	64.0	100.0
24.1	35.7	50.1	64.2	100.4
24.3	35.9	50.4	64.5	100.9
24.5	36.1	50.8	64.7	101.4
24.8	36.3	51.1	65.0	101.7
25.0	36.6	51.4	65.4	102.2
25.2	36.8	51.7	65.6	
25.4	37.0	52.1	66.2	
25.7	37.3	52.3	66.4	
25.9	37.5	52.6	66.6	
26.1	37.8	52.9	66.7	
26.3	38.0	53.2	67.1	
26.5	38.2	53.5	67.4	
26.7	38.5	53.7	67.6	

CORRELATED CBR VALUES



Notes:
SG = Subgrade

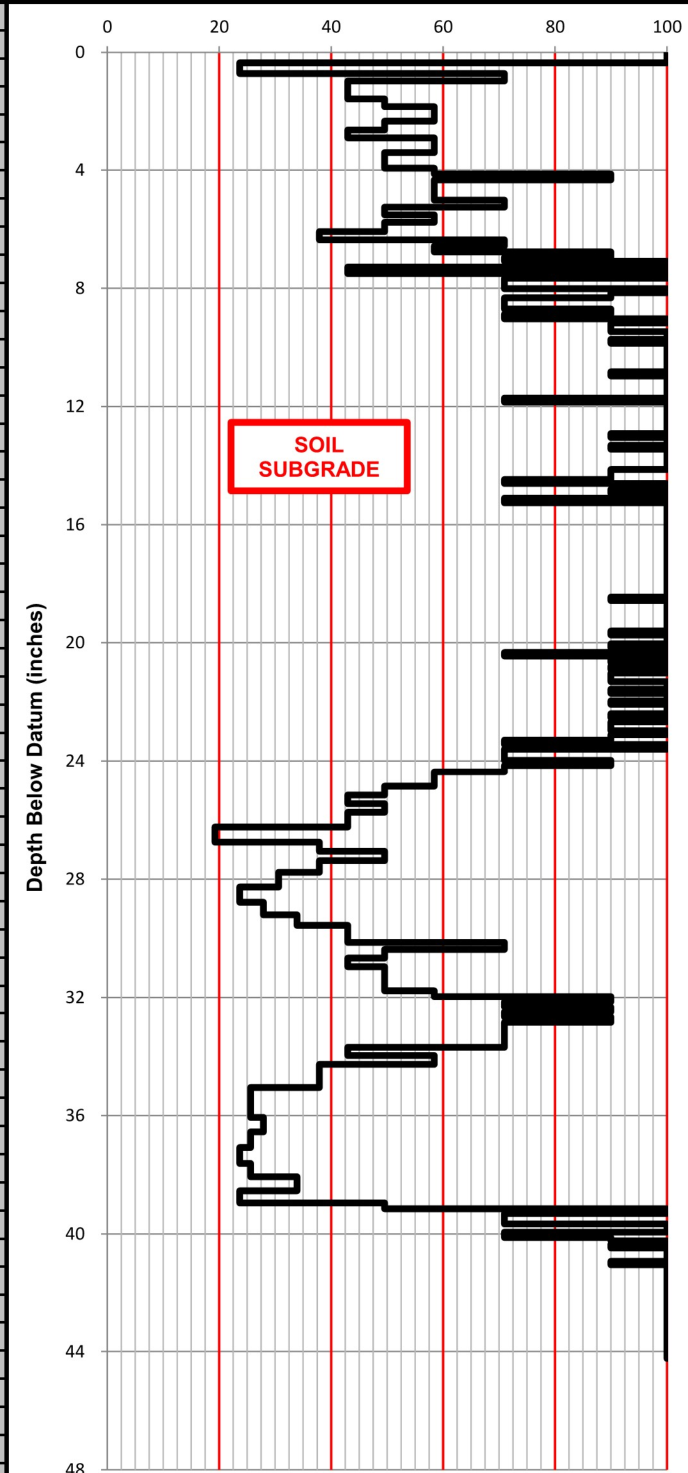
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 39+00 NB-GORE			4/23/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	CUT	501,969	2,005,512

CUMULATIVE PENETRATION IN CENTIMETERS

0.1	27.3	41.9	56.7	94.9	
0.2	27.7	42.1	57.1	96.2	
1.6	28.0	42.3	57.4	97.2	
2.1	28.2	42.6	57.8	98.6	
2.9	28.5	42.8	58.2	99.3	
3.7	28.8	43.1	58.5	99.6	
4.4	29.0	43.4	58.9	100.1	
5.0	29.3	43.6	59.4	100.6	
5.6	29.5	43.9	59.7	100.9	
6.3	30.0	44.2	60.2	101.2	
7.1	30.2	44.4	60.7	101.7	
7.7	30.5	44.7	61.1	102.1	
8.3	30.7	44.9	61.6	102.3	
9.0	31.0	45.2	62.2	102.7	
9.7	31.2	45.5	62.8	103.0	
10.3	31.5	45.7	63.5	103.2	
10.7	31.8	46.0	64.3	103.5	
11.3	32.1	46.2	65.0	103.8	
11.9	32.2	46.5	65.8	104.2	
12.5	32.3	46.7	67.5	104.4	
13.0	32.4	47.1	68.4	104.7	
13.7	32.6	47.3	69.1	105.0	
14.3	33.0	47.5	70.0	105.3	
15.0	33.3	47.8	71.1	105.6	
15.9	33.6	48.1	72.5	105.9	
16.4	34.0	48.4	73.7	106.2	
17.0	34.3	48.6	74.7	106.5	
17.4	34.6	48.8	75.5	106.8	
17.9	34.9	49.1	76.3	107.1	
18.1	35.0	49.3	76.8	107.4	
18.9	35.1	49.6	77.5	107.7	
19.2	35.2	50.0	78.3	108.0	
19.7	35.4	50.3	79.0	108.3	
20.2	35.7	50.5	79.7	108.6	
20.5	36.1	50.7	80.4	108.9	
20.9	36.5	51.1	81.0	109.2	
21.4	37.0	51.4	81.4	109.5	
21.9	37.2	51.9	81.9	109.7	
22.3	37.4	52.0	82.3	109.9	
22.8	37.8	52.4	82.8	110.1	
23.1	38.1	52.6	83.2	110.3	
23.5	38.6	53.0	83.7	110.5	
23.9	38.9	53.2	84.2	110.7	
24.2	39.2	53.6	84.7	110.9	
24.5	39.5	54.0	85.2	111.1	
24.9	39.7	54.3	86.0	111.3	
25.2	40.0	54.6	86.6	111.5	
25.5	40.3	55.0	87.5	111.7	
25.8	40.6	55.3	88.4	111.9	
26.1	40.8	55.6	89.7	112.2	
26.4	41.0	56.0	91.0	112.5	
26.7	41.3	56.2	92.2		
27.0	41.6	56.5	93.5		

CORRELATED CBR VALUES



Notes:
SG = Subgrade

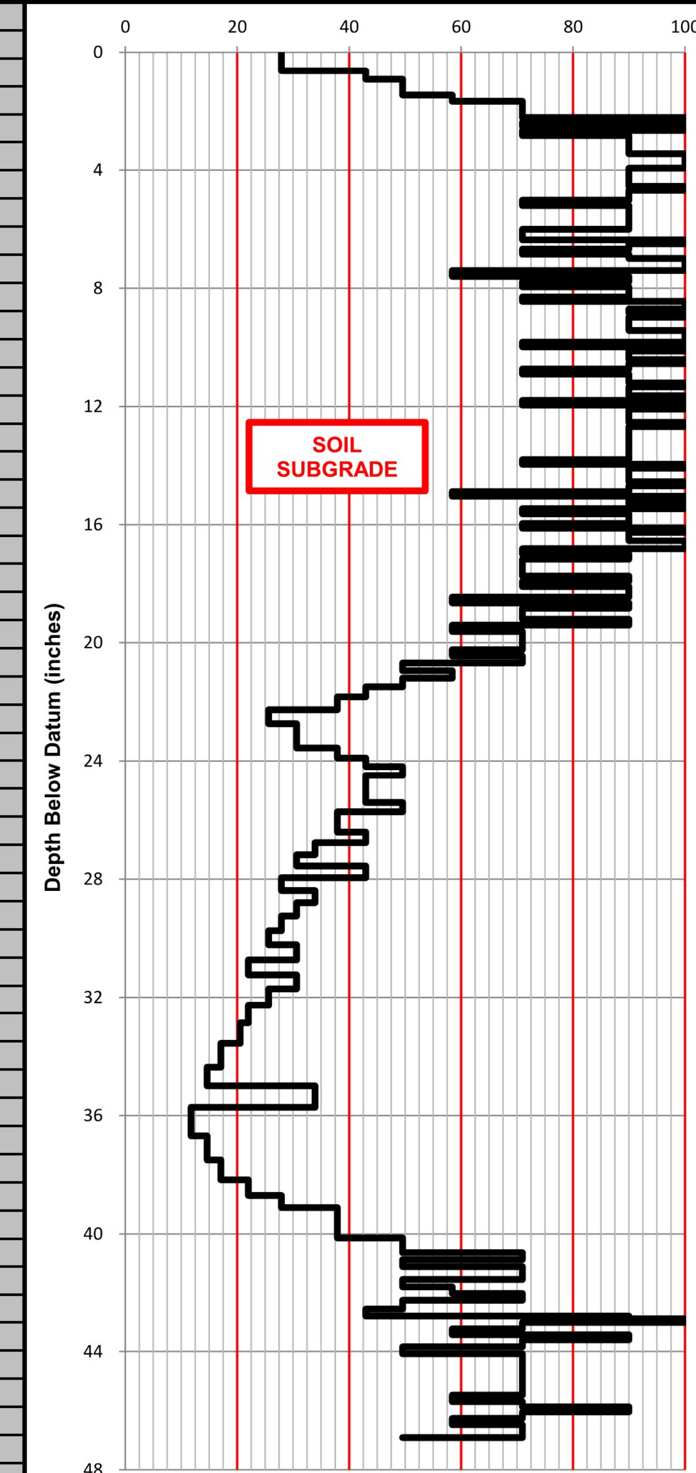
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 39+00 SB-OSS			4/22/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	CUT	501,927	2,005,372

CUMULATIVE PENETRATION IN CENTIMETERS

1.2	23.4	43.9	92.1		
2.0	23.8	44.4	94.3		
2.7	24.1	44.9	96.2		
3.4	24.4	45.3	97.7		
4.0	24.7	45.8	98.9		
4.5	25.2	46.2	99.8		
5.0	25.5	46.6	100.7		
5.5	25.9	47.2	101.6		
5.8	26.3	47.6	102.3		
6.3	26.6	48.1	103.0		
6.5	27.0	48.6	103.5		
7.0	27.5	49.0	104.2		
7.4	27.9	49.6	104.7		
7.8	28.3	50.1	105.2		
8.2	28.6	50.6	105.9		
8.6	29.0	51.1	106.5		
8.9	29.4	51.7	107.0		
9.2	29.7	52.2	107.7		
9.5	30.2	52.9	108.5		
9.8	30.5	53.5	108.9		
10.2	30.9	54.2	109.0		
10.6	31.3	55.0	109.5		
11.0	31.7	55.9	110.1		
11.4	32.0	57.2	110.5		
11.7	32.4	58.3	111.0		
12.1	32.8	59.4	111.7		
12.5	33.2	60.3	112.2		
13.0	33.6	61.1	112.7		
13.4	34.0	61.8	113.2		
13.8	34.4	62.6	113.7		
14.2	34.8	63.4	114.2		
14.6	35.3	64.2	114.7		
15.0	35.6	64.9	115.2		
15.5	36.0	65.8	115.8		
16.0	36.4	66.7	116.3		
16.3	36.8	67.5	116.7		
16.7	37.1	68.5	117.2		
17.2	37.5	69.6	117.8		
17.6	38.1	70.4	118.3		
17.9	38.3	71.6	118.8		
18.2	38.7	72.6	119.5		
18.5	39.0	73.7			
19.1	39.5	74.9			
19.5	39.9	76.2			
20.0	40.3	77.3			
20.4	40.8	78.8			
20.8	41.1	79.9			
21.3	41.5	81.2			
21.6	41.9	82.7			
21.9	42.2	84.3			
22.3	42.5	86.2			
22.6	43.0	88.4			
23.0	43.4	89.4			

CORRELATED CBR VALUES



Notes:
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

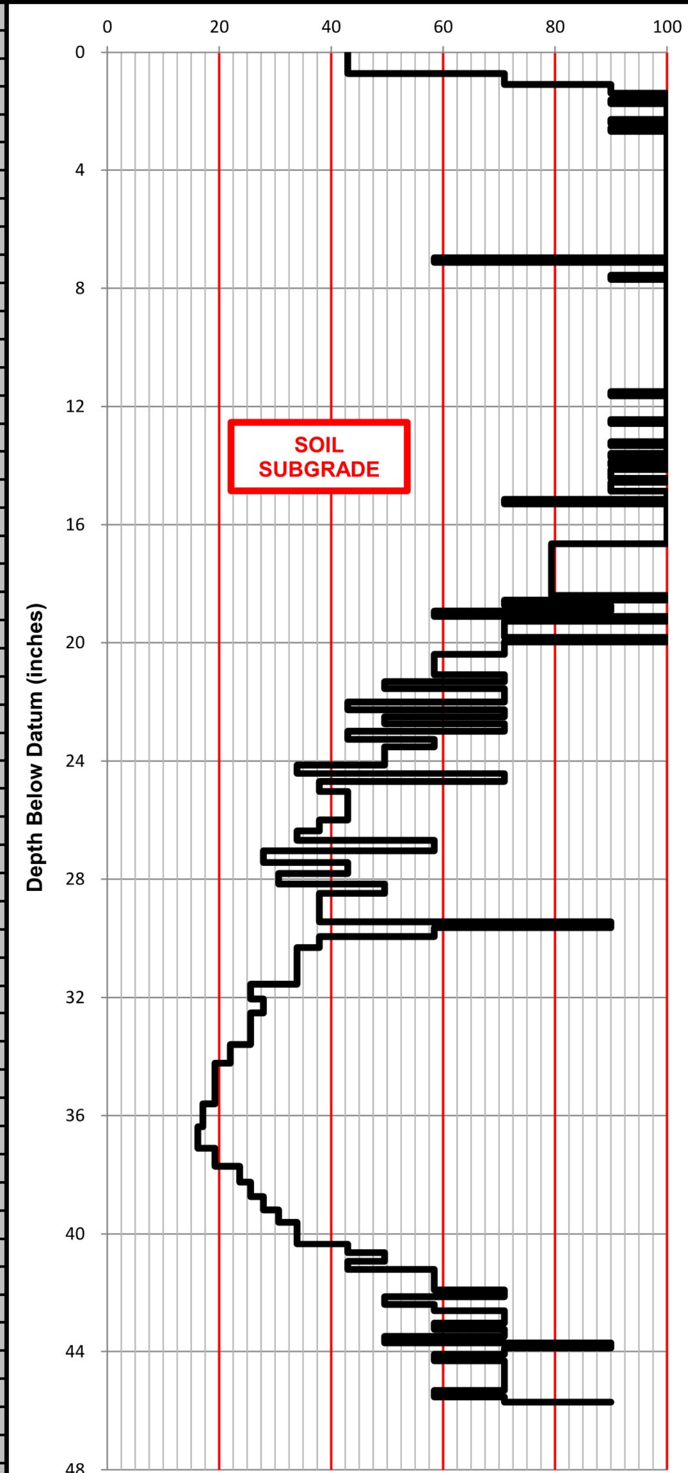
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 39+00 SB-DECEL			4/22/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
SG	CUT	501,928	2,005,378

CUMULATIVE PENETRATION IN CENTIMETERS

0.8	16.6	30.6	49.2	96.5	
1.6	16.9	30.9	49.7	97.8	
2.1	17.1	31.1	50.2	99.0	
2.6	17.4	31.4	50.5	100.1	
3.0	18.0	31.8	51.0	101.1	
3.4	18.2	32.1	51.5	102.1	
3.7	18.4	32.4	52.1	102.9	
3.9	18.7	32.7	52.7	103.6	
4.3	18.9	33.0	53.3	104.4	
4.6	19.0	33.3	53.8	105.0	
4.8	19.4	33.7	54.5	105.6	
5.0	19.7	34.0	55.0	106.2	
5.3	19.9	34.3	55.5	106.7	
5.6	20.2	34.7	56.3	107.4	
6.0	20.4	35.0	56.8	108.0	
6.3	20.6	35.4	57.5	108.5	
6.7	20.9	35.7	58.0	109.0	
7.0	21.1	36.1	58.8	109.6	
7.2	21.3	36.5	59.4	110.1	
7.5	21.6	36.8	60.1	110.8	
7.7	21.9	37.2	60.8	111.2	
8.0	22.1	37.6	61.8	111.7	
8.3	22.3	37.9	62.3	112.3	
8.5	22.5	38.2	63.2	112.8	
8.8	22.7	38.7	64.0	113.3	
9.0	23.0	39.0	64.8	113.8	
9.3	23.2	39.3	65.6	114.3	
9.6	23.4	39.5	66.5	114.8	
9.8	23.6	39.8	67.5	115.4	
10.1	23.9	40.0	68.1	115.9	
10.4	24.2	40.3	69.3	116.3	
10.7	24.4	40.5	70.1		
10.9	24.7	40.8	71.2		
11.2	24.9	41.1	71.9		
11.5	25.2	41.3	72.8		
11.7	25.5	41.6	73.7		
12.0	25.7	41.8	74.6		
12.3	26.0	42.1	75.0		
12.6	26.3	42.6	75.6		
12.8	26.6	43.0	76.5		
13.1	26.8	43.5	77.5		
13.4	27.1	43.9	78.5		
13.7	27.4	44.4	79.5		
14.0	27.7	44.8	80.8		
14.2	28.0	45.3	82.0		
14.5	28.2	45.7	83.3		
14.8	28.5	46.2	84.6		
15.1	28.8	46.6	86.1		
15.3	29.0	46.9	87.8		
15.6	29.4	47.4	89.5		
15.8	29.7	47.8	91.4		
16.1	30.0	48.4	93.4		
16.4	30.3	48.7	95.1		

CORRELATED CBR VALUES



Notes:
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

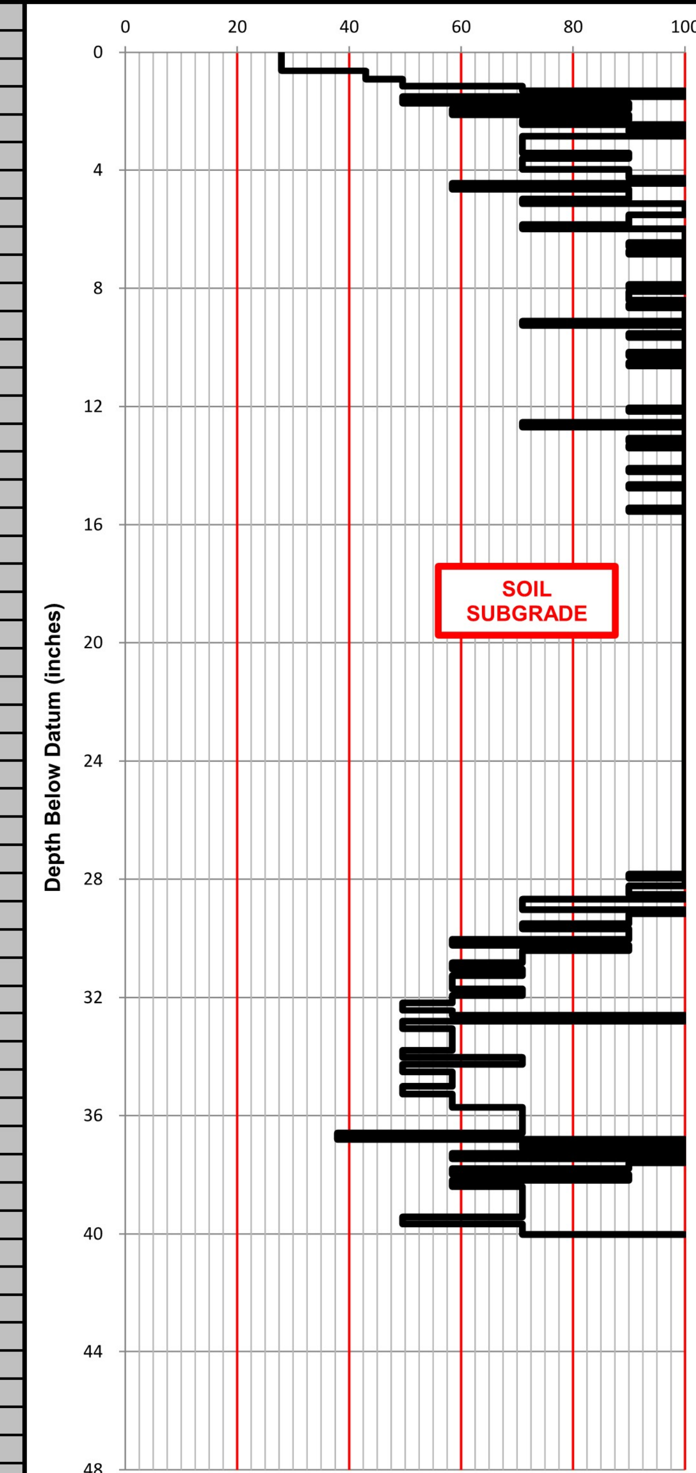
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 39+00 SB-GORE			4/22/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
SG	CUT	501,933	2,005,391

CUMULATIVE PENETRATION IN CENTIMETERS

1.2	21.2	36.0	47.9	59.4	74.3
2.0	21.5	36.2	48.1	59.6	74.7
2.7	21.9	36.4	48.4	59.9	75.2
3.2	22.1	36.7	48.6	60.2	75.6
3.5	22.4	36.9	48.8	60.5	76.0
4.2	22.7	37.0	49.1	60.7	76.6
4.6	22.9	37.4	49.3	61.0	77.0
5.2	23.4	37.6	49.5	61.3	77.5
5.6	23.6	37.8	49.7	61.5	78.0
6.1	23.8	38.0	49.9	61.8	78.6
6.4	24.0	38.3	50.2	62.1	79.1
6.8	24.4	38.5	50.4	62.3	79.7
7.0	24.7	38.8	50.6	62.5	80.3
7.5	24.8	39.0	50.8	62.8	80.8
8.0	25.0	39.4	51.0	63.0	81.4
8.5	25.3	39.6	51.2	63.3	82.1
8.9	25.6	39.8	51.4	63.5	82.7
9.4	26.0	40.0	51.7	63.8	83.0
9.9	26.3	40.2	51.9	64.1	83.7
10.3	26.5	40.4	52.1	64.3	84.3
10.7	26.9	40.6	52.3	64.6	84.9
11.0	27.1	40.8	52.5	64.8	85.5
11.6	27.4	41.0	52.7	65.0	86.2
12.0	27.7	41.2	52.9	65.3	86.7
12.4	28.0	41.4	53.1	65.5	87.4
12.9	28.3	41.6	53.3	65.7	88.0
13.2	28.6	41.8	53.5	66.0	88.6
13.5	28.9	42.0	53.8	66.3	89.3
13.8	29.2	42.2	54.0	66.5	89.9
14.2	29.5	42.4	54.2	66.8	90.5
14.6	29.8	42.6	54.4	67.1	91.0
15.1	30.1	42.8	54.6	67.3	91.5
15.3	30.4	43.0	54.8	67.6	92.0
15.6	30.8	43.2	55.0	67.9	92.5
15.9	31.0	43.4	55.2	68.2	93.4
16.2	31.3	43.6	55.5	68.4	93.6
16.6	31.6	43.8	55.7	68.7	94.1
16.9	32.1	44.0	55.9	69.0	94.4
17.3	32.4	44.2	56.1	69.3	95.0
17.5	32.6	44.4	56.3	69.6	95.3
17.8	32.8	44.7	56.6	69.8	95.7
18.0	33.0	44.9	56.8	70.0	96.3
18.2	33.4	45.1	57.0	70.3	96.7
18.5	33.6	45.3	57.2	70.5	97.3
18.8	34.0	45.5	57.4	70.9	97.8
19.0	34.1	45.7	57.6	71.2	98.3
19.1	34.3	46.0	57.8	71.5	98.8
19.3	34.6	46.2	58.1	71.9	99.3
19.6	34.8	46.5	58.3	72.3	99.8
19.8	35.0	46.8	58.5	72.6	100.5
20.2	35.2	47.1	58.7	73.1	101.0
20.4	35.5	47.3	58.9	73.6	101.5
20.8	35.6	47.6	59.1	73.9	101.8

CORRELATED CBR VALUES



Notes:
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

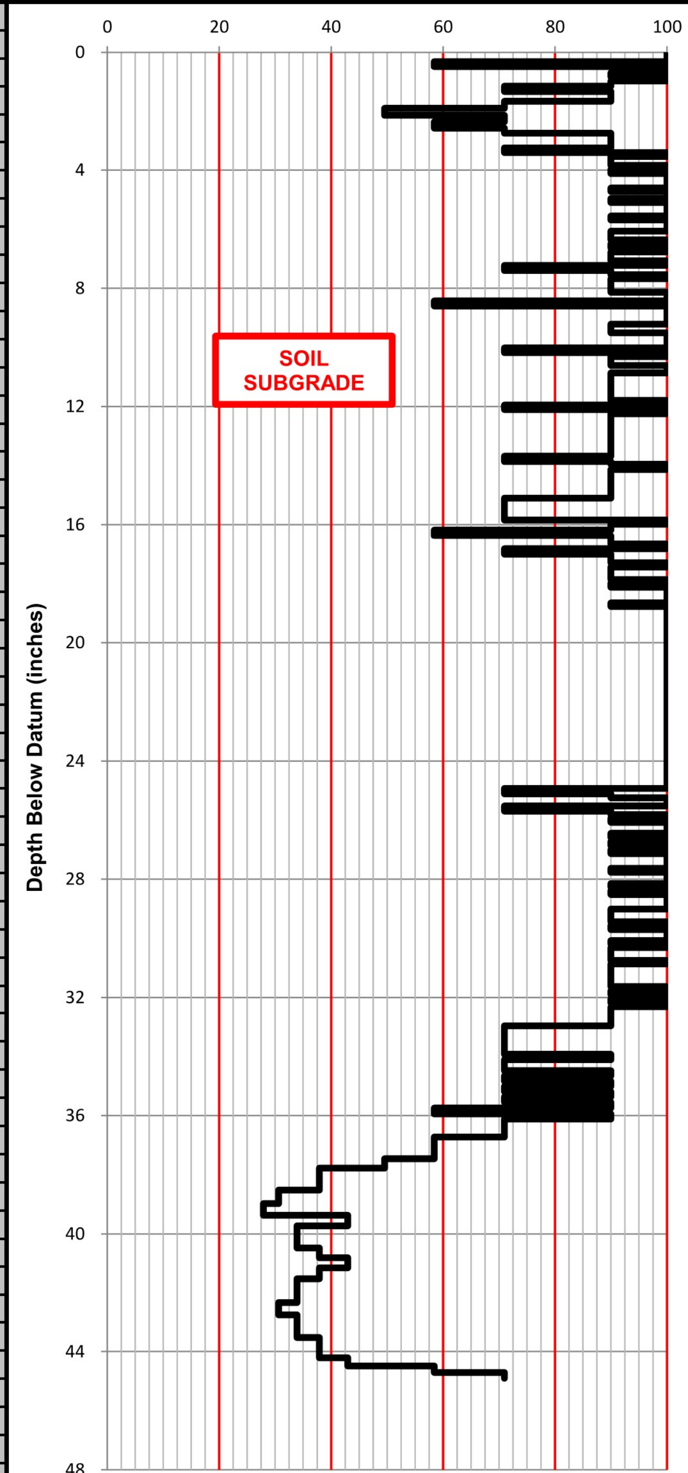
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 54+00 NB-OSS			4/23/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
SG	FILL	503,317	2,004,871

CUMULATIVE PENETRATION IN CENTIMETERS

0.3	20.1	40.1	55.8	71.0	91.5
0.5	20.5	40.4	56.0	71.3	92.0
1.1	20.8	40.8	56.3	71.7	92.5
1.4	21.1	41.4	56.5	71.9	93.0
1.6	21.7	41.8	56.8	72.3	93.6
2.0	22.0	42.2	57.0	72.6	94.2
2.3	22.3	42.5	57.2	72.9	94.8
2.7	22.6	43.0	57.5	73.2	95.5
3.2	22.9	43.4	57.7	73.5	96.4
3.6	23.2	43.8	58.0	73.9	97.3
4.0	23.6	44.1	58.2	74.3	98.4
4.5	24.0	44.5	58.4	74.7	99.6
5.2	24.3	44.9	58.7	74.9	100.4
5.7	24.6	45.3	58.9	75.3	101.4
6.3	24.9	45.5	59.1	75.6	102.4
6.8	25.2	45.9	59.4	75.9	103.3
7.2	25.7	46.2	59.6	76.2	104.1
7.6	26.0	46.5	59.8	76.6	105.0
8.0	26.4	46.7	60.0	76.8	106.0
8.5	26.8	47.0	60.3	77.2	107.0
8.8	27.1	47.2	60.5	77.6	108.1
9.2	27.4	47.6	60.8	78.0	109.1
9.6	27.8	47.8	61.0	78.2	110.1
9.9	28.2	48.1	61.3	78.6	111.0
10.3	28.6	48.3	61.5	79.0	111.9
10.6	29.0	48.6	61.8	79.4	112.7
10.9	29.4	48.9	62.1	79.8	113.3
11.2	29.8	49.1	62.3	80.2	113.8
11.5	30.1	49.4	62.6	80.5	114.3
11.9	30.6	49.6	62.8	80.9	
12.1	30.9	49.9	63.1	81.2	
12.4	31.3	50.1	63.6	81.6	
12.8	31.7	50.4	64.0	81.9	
13.1	32.1	50.6	64.3	82.3	
13.4	32.5	50.9	64.6	82.7	
13.6	32.9	51.1	65.1	83.1	
13.9	33.3	51.4	65.5	83.5	
14.3	33.7	51.6	65.7	84.0	
14.6	34.1	51.9	66.1	84.5	
14.9	34.5	52.1	66.4	85.0	
15.2	35.0	52.4	66.7	85.5	
15.6	35.4	52.6	67.0	86.0	
16.0	35.5	52.9	67.4	86.4	
16.3	35.7	53.1	67.7	86.9	
16.7	36.1	53.4	68.1	87.4	
17.0	36.5	53.6	68.4	87.8	
17.4	36.9	53.9	68.8	88.3	
17.8	37.3	54.2	69.1	88.7	
18.1	37.7	54.5	69.4	89.2	
18.6	38.1	54.7	69.7	89.6	
19.0	38.6	55.0	70.0	90.1	
19.3	39.1	55.3	70.4	90.5	
19.7	39.6	55.5	70.7	91.1	

CORRELATED CBR VALUES



Notes:
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

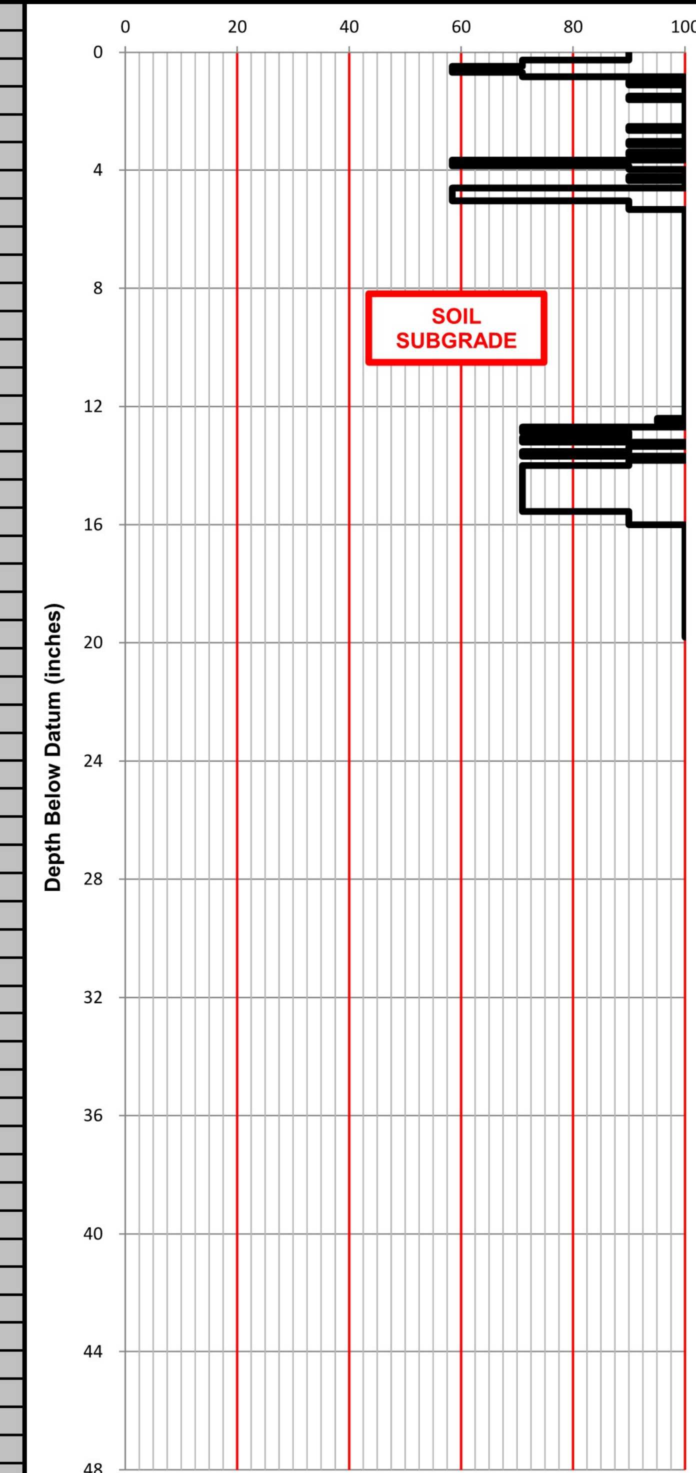
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 54+00 NB-OSL			4/23/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
SG	FILL	503,312	2,004,864

CUMULATIVE PENETRATION IN CENTIMETERS

0.4	16.8	30.7	46.7		
0.9	17.0	31.0	46.8		
1.5	17.3	31.3	47.0		
2.0	17.5	31.7	47.2		
2.3	17.8	32.0	47.3		
2.7	18.0	32.5	47.5		
3.0	18.2	32.9	47.7		
3.3	18.5	33.4	47.8		
3.6	18.7	33.7	48.0		
4.0	18.9	34.1	48.1		
4.2	19.2	34.6	48.3		
4.5	19.4	34.9	48.4		
4.7	19.6	35.3	48.6		
5.0	19.8	35.8	48.7		
5.2	20.1	36.3	48.9		
5.5	20.3	36.8	49.0		
5.7	20.6	37.3	49.1		
6.0	20.8	37.8	49.3		
6.2	21.1	38.3	49.4		
6.6	21.4	38.8	49.6		
6.9	21.7	39.3	49.7		
7.1	21.9	39.7	49.8		
7.3	22.2	40.1	50.0		
7.5	22.5	40.5	50.1		
7.9	22.7	40.8	50.3		
8.1	23.0	41.0	50.4		
8.4	23.3	41.3			
8.8	23.5	41.6			
9.0	23.8	41.8			
9.6	24.0	42.0			
10.0	24.3	42.2			
10.2	24.5	42.4			
10.5	24.8	42.6			
10.9	25.0	42.8			
11.2	25.3	43.0			
11.4	25.5	43.2			
12.0	25.8	43.4			
12.6	26.0	43.6			
13.0	26.3	43.8			
13.4	26.6	44.0			
13.7	26.8	44.2			
13.9	27.1	44.4			
14.2	27.3	44.6			
14.5	27.6	44.8			
14.8	27.9	45.0			
15.0	28.1	45.2			
15.2	28.4	45.4			
15.4	28.8	45.6			
15.6	29.1	45.8			
15.8	29.4	46.0			
16.1	29.7	46.1			
16.3	30.0	46.3			
16.6	30.4	46.5			

CORRELATED CBR VALUES



Notes:
DCP REFUSAL (>50/4") IN SUBGRADE AT 19.8 INCHES
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

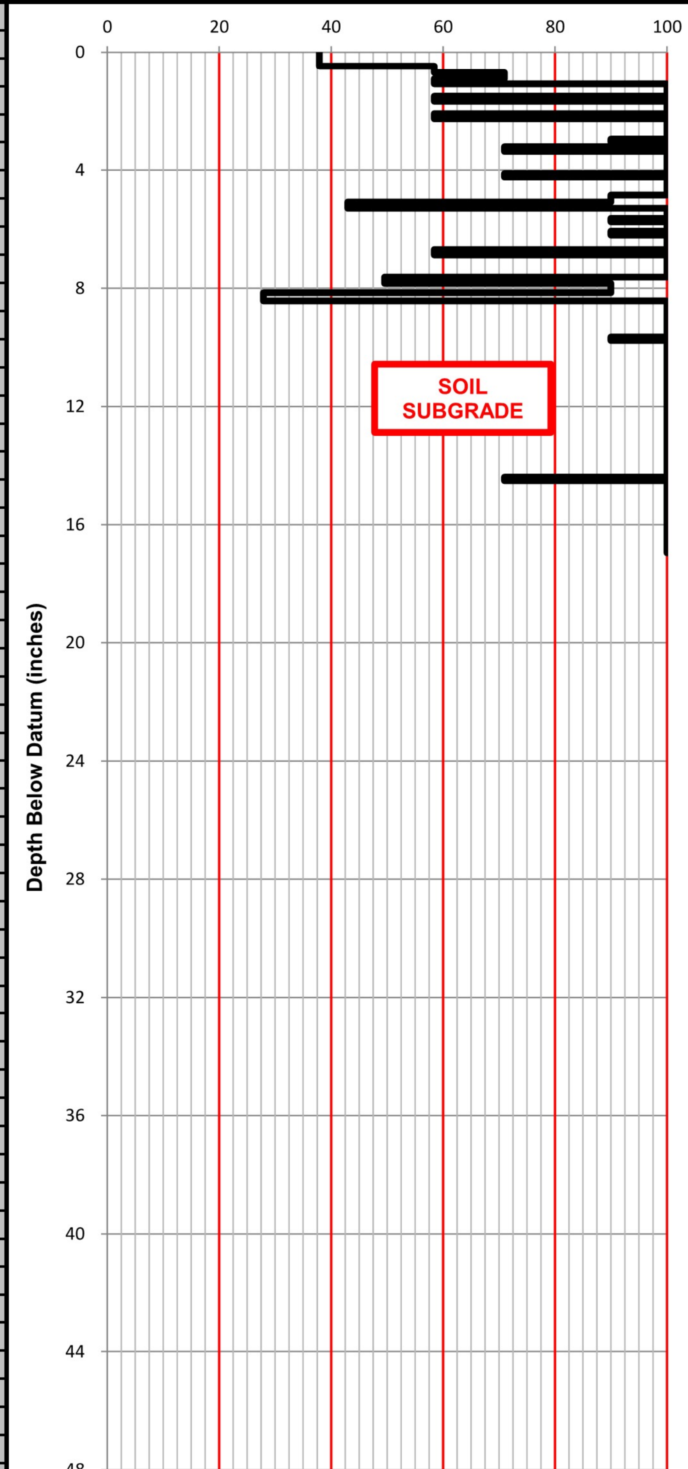
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 54+00 NB-ISL			4/21/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	FILL	503,303	2,004,853

CUMULATIVE PENETRATION IN CENTIMETERS

0.9	17.3	31.4	40.0
1.5	17.6	31.6	40.3
2.0	17.9	31.8	40.6
2.6	18.0	32.0	40.8
2.9	18.2	32.2	40.9
3.2	18.4	32.4	41.0
3.5	18.6	32.5	41.2
4.1	18.8	32.7	41.3
4.4	19.0	32.9	41.4
4.7	19.7	33.1	41.6
5.0	20.1	33.3	41.7
5.6	21.3	33.6	41.8
5.9	21.5	33.8	41.9
6.1	21.8	34.0	42.1
6.4	22.1	34.2	42.2
6.7	22.4	34.3	42.3
6.9	22.6	34.5	42.6
7.1	22.9	34.6	42.8
7.3	23.2	34.9	43.0
7.7	23.5	35.0	43.2
7.8	23.8	35.2	
7.9	24.0	35.3	
8.4	24.3	35.4	
8.7	24.7	35.5	
9.0	24.9	35.7	
9.2	25.2	35.8	
9.5	25.5	36.0	
9.8	25.7	36.1	
10.0	26.0	36.2	
10.2	26.2	36.3	
10.7	26.5	36.8	
10.8	26.7	36.9	
11.0	27.0	37.2	
11.1	27.3	37.3	
11.4	27.5	37.6	
11.5	27.7	37.7	
11.7	28.0	37.8	
12.0	28.2	37.9	
12.1	28.4	38.0	
12.5	28.6	38.2	
13.3	28.9	38.3	
13.6	29.1	38.4	
13.8	29.3	38.5	
14.1	29.5	38.6	
14.5	29.6	38.9	
14.7	29.7	39.0	
15.0	30.0	39.1	
15.2	30.3	39.3	
15.6	30.5	39.4	
15.9	30.6	39.5	
16.1	30.8	39.6	
16.4	31.0	39.8	
16.7	31.2	39.9	

CORRELATED CBR VALUES



Notes:
DCP REFUSAL (>50/4") IN SUBGRADE AT 17.0 INCHES
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

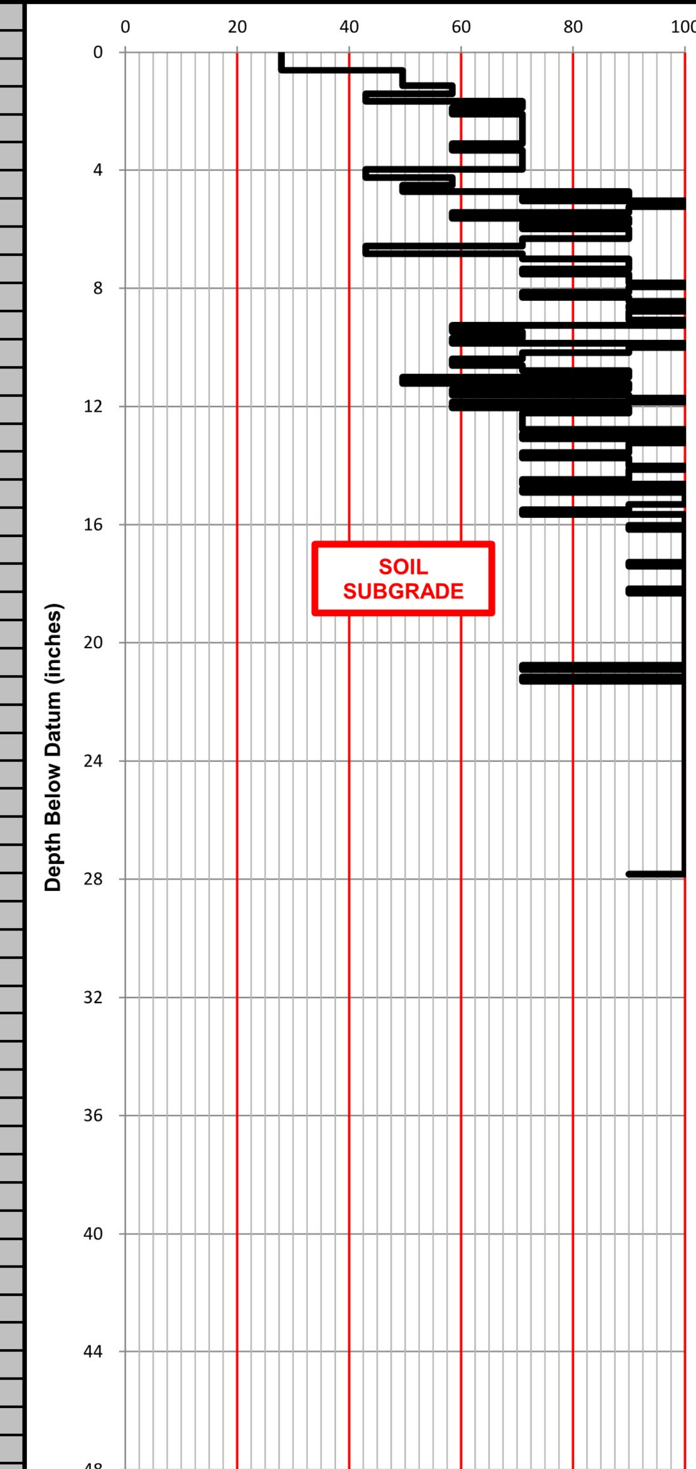
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 54+00 NB-ISS			4/21/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	FILL	503,297	2,004,846

CUMULATIVE PENETRATION IN CENTIMETERS

1.2	26.7	45.6	57.8	66.7
1.9	27.2	45.8	58.0	66.8
2.6	27.6	46.0	58.2	67.0
3.2	28.3	46.4	58.4	67.2
4.0	28.7	46.7	58.5	67.3
4.5	29.3	46.9	58.7	67.5
5.1	29.7	47.2	58.9	67.6
5.6	29.8	47.4	59.1	67.8
6.1	30.4	47.6	59.3	68.0
6.6	30.8	47.9	59.4	68.1
7.1	31.3	48.1	59.6	68.3
7.6	31.8	48.3	59.8	68.4
8.2	32.3	48.5	60.0	68.6
8.7	32.6	48.8	60.2	68.8
9.2	33.1	49.0	60.3	68.9
9.7	33.4	49.2	60.5	69.1
10.5	33.8	49.5	60.7	69.2
11.1	34.2	49.7	60.9	69.4
11.8	34.7	49.9	61.0	69.6
12.2	35.1	50.2	61.1	69.7
12.7	35.5	50.4	61.4	69.9
12.9	35.7	50.6	61.6	70.0
13.1	36.1	50.8	61.7	70.2
13.5	36.5	51.1	61.9	70.4
14.1	37.0	51.3	62.0	70.5
14.5	37.3	51.5	62.2	70.9
15.0	37.8	51.8	62.4	
15.4	37.9	52.0	62.5	
15.8	38.2	52.2	62.7	
16.3	38.5	52.5	62.8	
17.1	38.7	53.0	63.0	
17.6	39.1	53.2	63.2	
18.0	39.6	53.5	63.3	
18.4	39.9	54.0	63.5	
18.9	40.2	54.2	63.6	
19.3	40.5	54.4	63.8	
19.7	40.9	54.7	64.0	
20.0	41.2	54.9	64.1	
20.4	41.5	55.1	64.3	
20.9	41.8	55.3	64.4	
21.3	42.1	55.5	64.6	
21.6	42.4	55.7	64.8	
22.0	42.7	55.8	64.9	
22.1	43.0	56.0	65.1	
22.5	43.3	56.2	65.2	
22.9	43.5	56.4	65.4	
23.2	43.7	56.6	65.6	
23.8	44.1	56.7	65.7	
24.3	44.4	56.9	65.9	
24.9	44.6	57.1	66.0	
25.2	44.8	57.3	66.2	
25.6	45.0	57.5	66.4	
26.1	45.3	57.6	66.5	

CORRELATED CBR VALUES



Notes:
DCP REFUSAL (>50/4") IN SUBGRADE AT 27.8 INCHES
SG = Subgrade

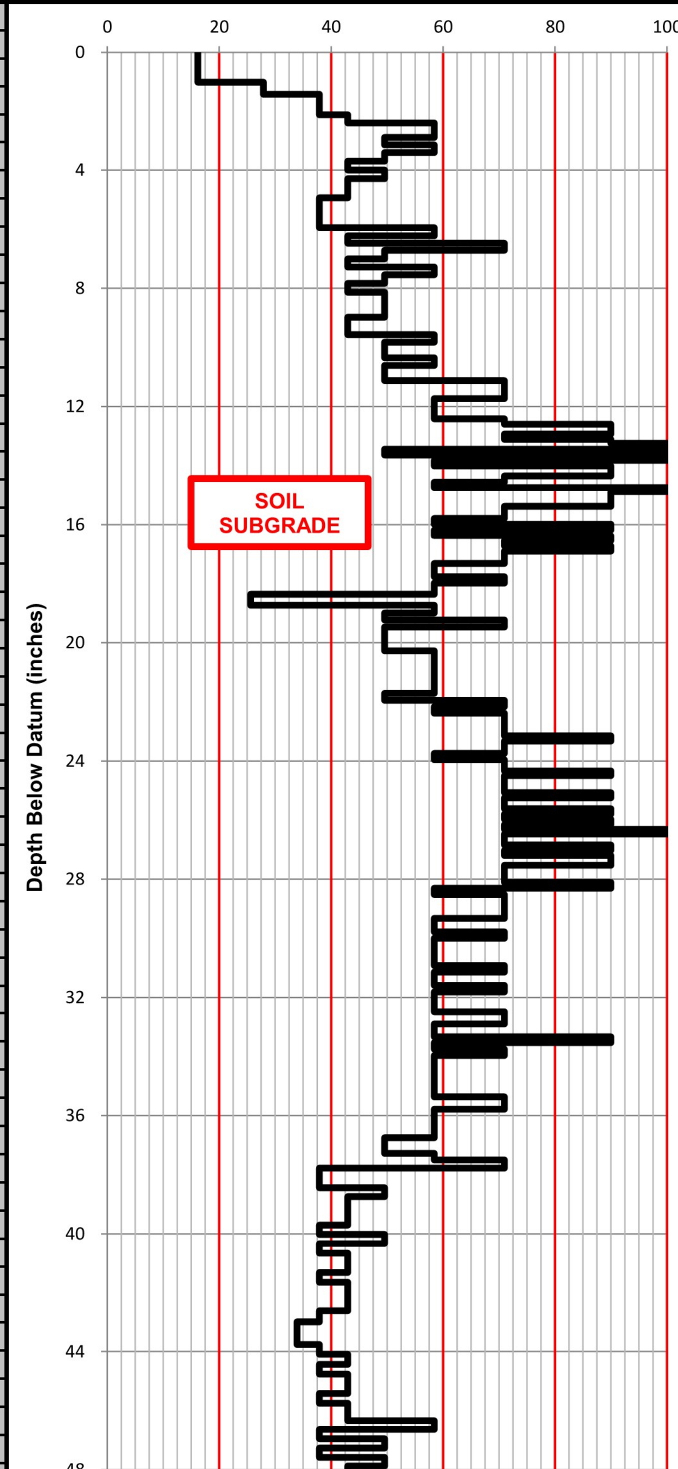
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 54+00 SB-OSS			4/22/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	FILL	503,230	2,004,763

CUMULATIVE PENETRATION IN CENTIMETERS

2.0	36.7	65.3	93.7
3.2	37.3	65.8	94.4
4.1	37.6	66.2	95.0
5.0	38.0	66.7	95.5
5.8	38.4	67.0	96.4
6.4	38.8	67.5	97.3
7.0	39.3	68.0	98.0
7.7	39.8	68.4	98.8
8.3	40.4	68.9	99.6
9.0	40.8	69.3	100.4
9.8	41.4	69.7	101.3
10.5	41.8	70.2	102.0
11.3	42.3	70.7	102.9
12.1	42.7	71.2	103.7
13.0	43.2	71.6	104.5
13.9	43.7	72.2	105.4
14.8	44.3	72.7	106.2
15.4	44.9	73.2	107.0
16.2	45.4	73.7	107.8
16.7	46.0	74.2	108.7
17.4	47.3	74.8	109.7
18.2	47.9	75.4	110.7
18.8	48.6	75.9	111.6
19.5	49.1	76.5	112.4
20.3	49.8	77.1	113.3
21.0	50.5	77.7	114.1
21.7	51.2	78.3	114.9
22.4	51.8	78.8	115.8
23.2	52.4	79.4	116.6
24.0	53.0	80.0	117.4
24.6	53.6	80.5	118.0
25.3	54.2	81.1	118.9
26.0	54.8	81.7	119.6
26.6	55.5	82.3	120.5
27.3	56.0	82.8	121.2
28.0	56.6	83.3	122.0
28.5	57.1	83.9	122.9
29.0	57.6	84.5	123.9
29.5	58.1	84.9	124.6
30.1	58.6	85.5	125.4
30.7	59.0	86.0	126.2
31.3	59.5	86.6	
31.8	60.0	87.2	
32.2	60.6	87.8	
32.6	61.1	88.4	
33.1	61.6	89.0	
33.5	62.0	89.6	
33.8	62.5	90.1	
34.5	63.0	90.6	
34.8	63.5	91.2	
35.4	63.9	91.8	
35.8	64.4	92.4	
36.2	64.9	93.0	

CORRELATED CBR VALUES



Notes:
SG = Subgrade

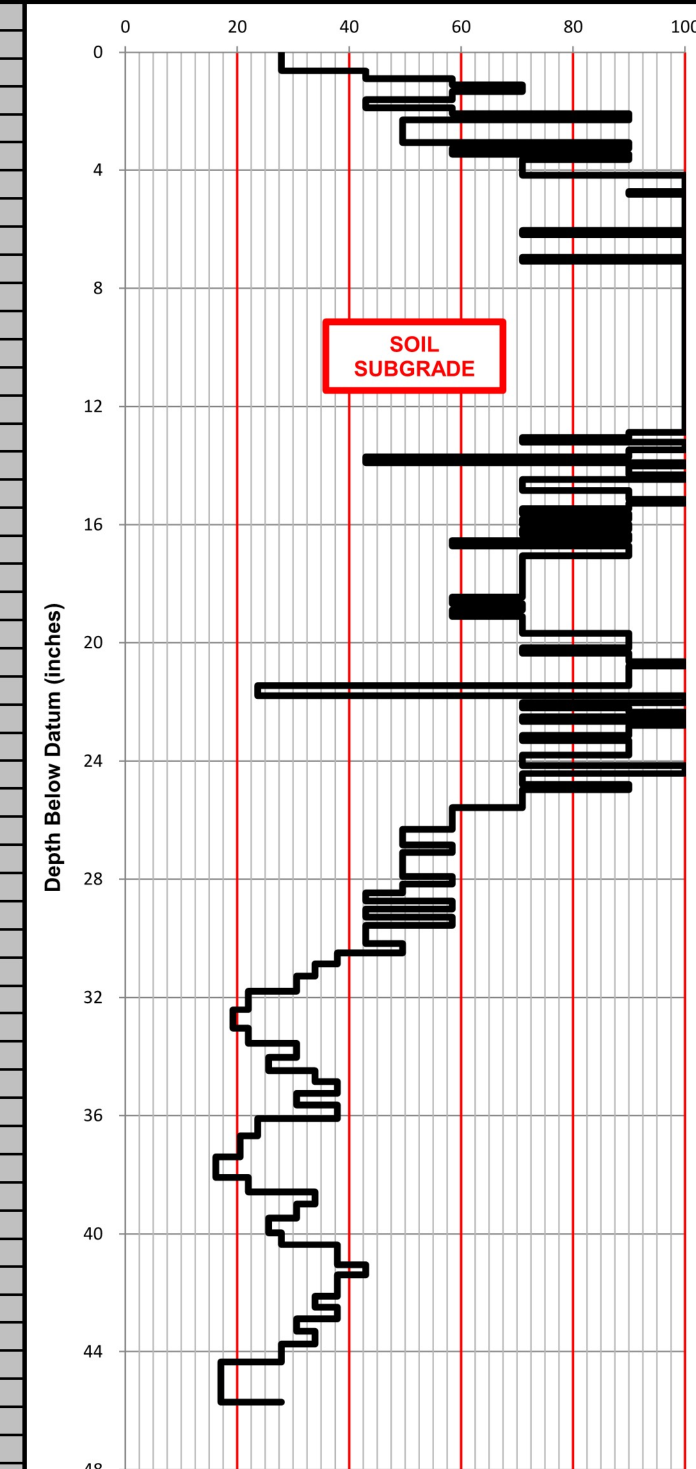
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 54+00 SB-ACCEL			4/22/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	FILL	503,236	2,004,771

CUMULATIVE PENETRATION IN CENTIMETERS

1.2	20.0	35.8	59.8	105.6
2.0	20.3	36.2	60.2	106.5
2.6	20.5	36.5	60.7	107.5
3.1	20.7	37.0	61.2	108.4
3.7	20.9	37.5	61.5	109.5
4.5	21.1	37.9	61.8	110.5
5.1	21.3	38.3	62.3	111.7
5.5	21.5	38.6	62.8	113.6
6.2	21.7	39.0	63.2	115.5
6.9	21.8	39.5	63.7	116.7
7.6	22.0	39.9	64.2	
8.0	22.2	40.4	64.7	
8.6	22.4	40.8	65.3	
9.0	22.6	41.3	65.9	
9.5	22.8	41.7	66.5	
10.0	23.1	42.3	67.2	
10.5	23.4	42.7	67.9	
10.7	23.7	43.1	68.5	
11.0	24.0	43.6	69.2	
11.3	24.3	44.1	69.9	
11.6	24.5	44.6	70.6	
11.8	24.8	45.1	71.2	
12.2	25.1	45.6	71.9	
12.3	25.4	46.1	72.7	
12.5	25.7	46.6	73.3	
12.7	26.0	47.2	74.1	
13.0	26.4	47.7	74.7	
13.2	26.7	48.3	75.5	
13.4	27.0	48.8	76.3	
13.7	27.4	49.3	77.0	
14.0	27.7	49.8	77.9	
14.3	28.0	50.2	78.9	
14.6	28.3	50.6	80.0	
14.8	28.7	51.0	81.5	
15.1	29.0	51.5	83.2	
15.6	29.3	51.9	84.7	
15.8	29.6	52.3	85.8	
16.0	30.0	52.6	87.1	
16.3	30.3	53.0	88.1	
16.5	30.6	53.4	89.0	
16.8	30.9	53.8	90.1	
16.9	31.2	55.2	91.0	
17.2	31.6	55.5	92.4	
17.4	31.9	55.7	94.0	
17.9	32.2	56.2	96.0	
18.1	32.5	56.6	97.5	
18.3	32.9	56.9	98.5	
18.6	33.4	57.4	99.6	
18.8	33.7	57.7	100.9	
19.1	34.0	58.1	102.1	
19.3	34.4	58.5	103.0	
19.5	35.2	59.0	103.9	
19.8	35.4	59.4	104.7	

CORRELATED CBR VALUES



Notes:
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

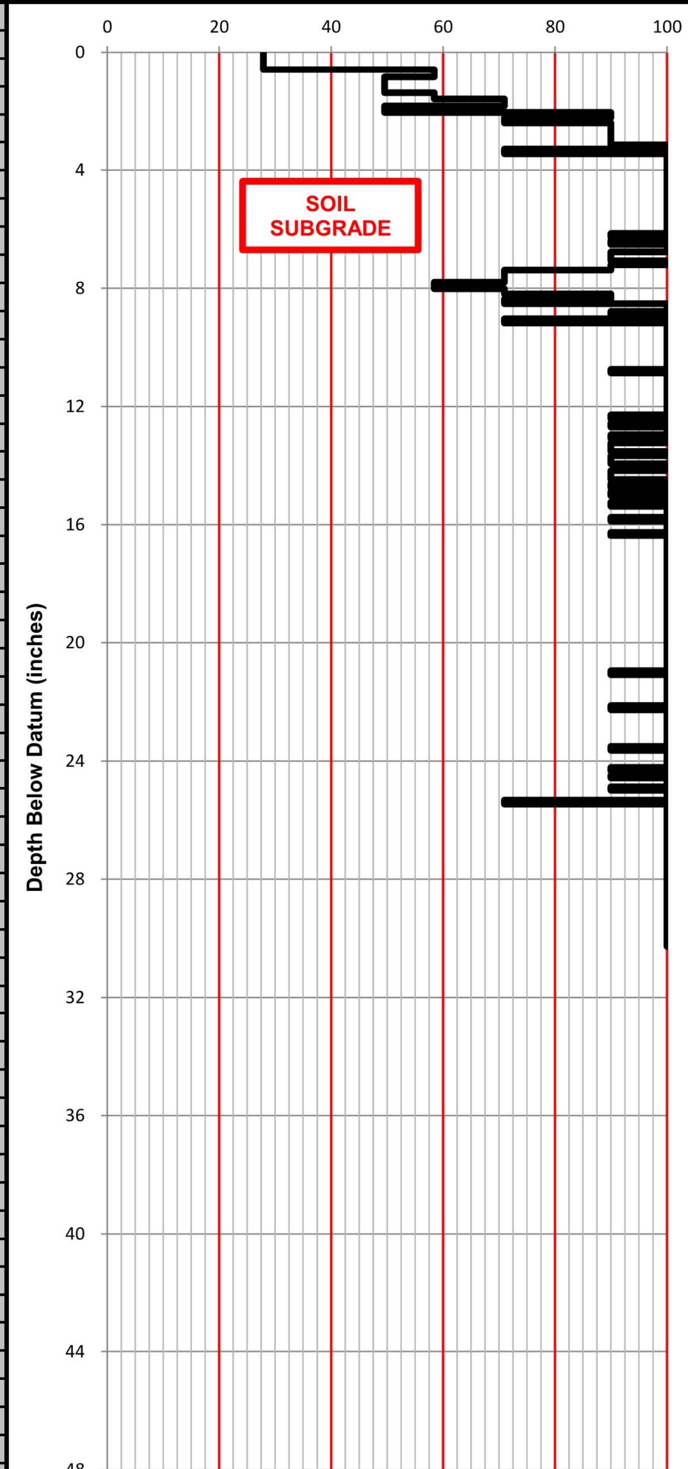
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 54+00 SB-OSL			4/22/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
SG	FILL	503,244	2,004,781

CUMULATIVE PENETRATION IN CENTIMETERS

1.2	19.5	35.8	50.3	62.5	74.1
1.8	20.1	36.2	50.5	62.8	74.3
2.5	20.6	36.6	50.7	63.0	74.5
3.2	21.0	36.9	51.0	63.4	74.6
3.8	21.5	37.3	51.3	63.6	74.8
4.3	21.8	37.6	51.5	63.9	75.0
5.0	22.1	38.0	51.7	64.1	75.2
5.4	22.5	38.3	51.9	64.6	75.4
5.9	22.7	38.5	52.1	64.8	75.6
6.3	23.2	38.9	52.3	65.1	75.8
6.7	23.4	39.2	52.6	65.4	76.0
7.1	23.6	39.5	52.8	65.6	76.2
7.5	23.9	39.8	53.0	65.9	76.4
7.9	24.1	40.2	53.4	66.1	76.6
8.1	24.3	40.5	53.7	66.4	76.8
8.6	24.6	40.8	53.8	66.6	77.0
8.9	24.8	41.1	54.0	66.8	
9.1	25.0	41.5	54.3	67.0	
9.3	25.2	41.7	54.4	67.3	
9.6	25.5	42.0	54.6	67.5	
9.8	25.8	42.3	54.9	67.8	
10.1	26.0	42.6	55.1	68.0	
10.4	26.2	42.9	55.3	68.2	
10.5	26.5	43.1	55.5	68.5	
10.6	26.8	43.4	55.8	68.7	
10.9	27.1	43.6	56.0	68.9	
11.2	27.5	43.9	56.4	69.1	
11.4	27.7	44.2	56.7	69.4	
11.6	27.9	44.5	57.0	69.6	
11.9	28.2	44.7	57.2	69.8	
12.2	28.5	44.9	57.4	70.0	
12.5	28.8	45.2	57.6	70.1	
12.7	29.1	45.4	57.8	70.3	
13.0	29.3	45.7	58.0	70.5	
13.3	29.6	45.9	58.2	70.7	
13.6	29.9	46.0	58.3	70.9	
13.9	30.2	46.2	58.5	71.0	
14.2	30.5	46.5	58.8	71.2	
14.4	30.7	46.7	59.0	71.4	
14.7	31.0	47.0	59.2	71.6	
14.9	31.4	47.3	59.5	71.8	
15.1	31.7	47.5	59.9	71.9	
15.4	32.1	47.8	60.2	72.1	
15.8	32.4	48.0	60.3	72.3	
16.0	32.7	48.2	60.4	72.5	
16.4	33.1	48.5	60.6	72.7	
16.7	33.4	48.8	60.9	72.8	
17.0	33.8	49.0	61.0	73.0	
17.4	34.2	49.3	61.3	73.2	
17.8	34.5	49.4	61.7	73.4	
18.1	34.9	49.6	61.9	73.6	
18.5	35.3	49.8	62.0	73.7	
19.0	35.5	50.0	62.4	73.9	

CORRELATED CBR VALUES



Notes:
DCP REFUSAL (>50/4") IN SUBGRADE AT 30.3 INCHES
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

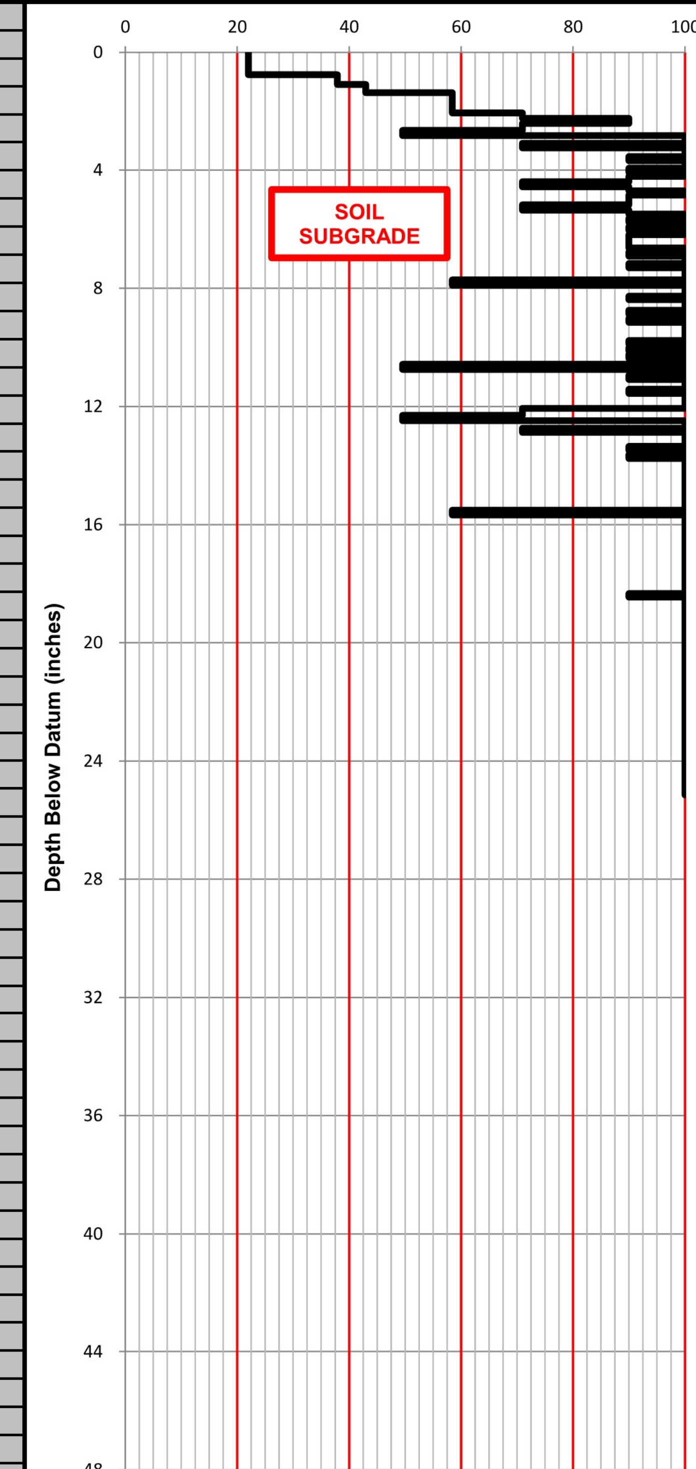
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 54+00 SB-ISL			4/23/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
SG	FILL	503,253	2,004,792

CUMULATIVE PENETRATION IN CENTIMETERS

1.5	22.4	39.7	54.0		
2.4	22.7	39.9	54.2		
3.2	23.1	40.2	54.4		
3.8	23.4	40.5	54.6		
4.4	23.7	40.8	54.8		
5.0	24.0	41.0	55.1		
5.5	24.3	41.3	55.3		
5.9	24.6	41.6	55.5		
6.4	25.0	41.9	55.7		
7.1	25.2	42.2	55.9		
7.3	25.6	42.5	56.1		
7.6	25.8	42.8	56.3		
8.1	26.2	43.1	56.5		
8.4	26.5	43.4	56.8		
8.6	27.2	43.7	57.0		
8.8	27.4	43.9	57.2		
9.2	27.6	44.2	57.4		
9.5	28.0	44.4	57.6		
9.8	28.3	44.7	57.9		
10.2	28.5	45.0	58.1		
10.5	28.8	45.3	58.3		
10.9	29.2	45.6	58.5		
11.4	29.5	45.9	58.7		
11.8	29.8	46.1	58.9		
12.1	30.1	46.4	59.1		
12.5	30.4	46.8	59.3		
12.9	30.9	47.0	59.5		
13.4	31.6	47.2	59.7		
13.8	31.8	47.5	59.9		
14.1	32.1	47.8	60.1		
14.5	32.6	48.0	60.3		
14.8	32.8	48.3	60.5		
15.2	33.1	48.6	60.7		
15.5	33.4	48.9	60.9		
15.9	33.7	49.1	61.1		
16.3	34.1	49.4	61.3		
16.7	34.4	49.7	61.4		
17.0	34.8	50.0	61.6		
17.4	35.1	50.2	61.8		
17.7	35.4	50.5	62.0		
18.0	35.7	50.8	62.2		
18.4	36.0	51.1	62.4		
18.7	36.3	51.4	62.6		
19.0	36.6	51.7	62.7		
19.3	36.9	51.9	62.9		
19.9	37.1	52.2	63.1		
20.2	37.4	52.4	63.3		
20.5	37.7	52.6	63.5		
20.8	38.0	52.9	63.6		
21.2	38.3	53.1	63.8		
21.4	38.6	53.3	64.0		
21.7	38.8	53.5			
22.0	39.1	53.8			

CORRELATED CBR VALUES



Notes:
DCP REFUSAL (>50/4") IN SUBGRADE AT 25.2 INCHES
SG = Subgrade

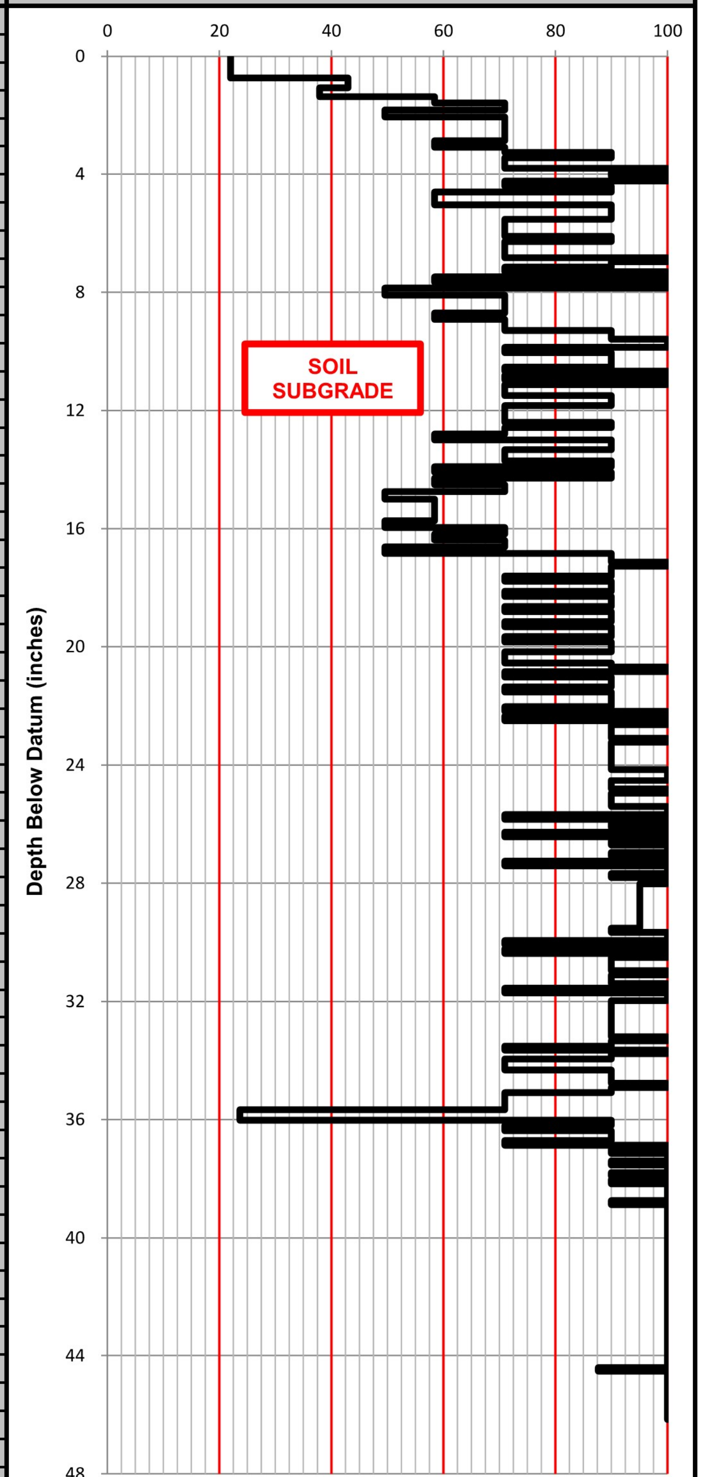
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 54+00 SB-ISS			4/23/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	FILL	503,258	2,004,798

CUMULATIVE PENETRATION IN CENTIMETERS

1.5	27.0	52.0	71.8	93.5	108.2
2.3	27.2	52.4	72.1	93.8	108.5
3.2	27.7	52.7	72.5	94.2	108.7
3.8	28.0	53.2	72.9	94.5	109.0
4.3	28.5	53.6	73.3	94.8	109.3
5.0	29.0	54.0	73.7	95.2	109.6
5.5	29.4	54.5	74.0	95.5	109.8
6.0	29.8	54.9	74.4	95.8	110.1
6.5	30.3	55.3	74.8	96.2	110.3
7.0	30.8	55.7	75.2	96.4	110.6
7.6	31.3	56.2	75.5	96.8	110.8
8.1	31.7	56.5	75.8	97.1	111.1
8.5	32.2	57.0	76.3	97.4	111.3
9.0	32.8	57.3	76.5	97.7	111.6
9.5	33.2	57.7	77.0	98.0	111.8
9.8	33.6	58.1	77.3	98.2	112.1
10.2	34.1	58.5	77.7	98.6	112.3
10.5	34.6	58.8	78.1	98.9	112.6
11.0	35.0	59.2	78.5	99.1	113.0
11.4	35.6	59.6	78.8	99.4	113.2
12.0	36.0	60.0	79.2	99.6	113.5
12.6	36.6	60.4	79.6	99.9	113.8
13.0	37.1	60.8	79.9	100.1	114.0
13.4	37.8	61.2	80.4	100.4	114.3
13.8	38.4	61.5	80.7	100.6	114.5
14.3	39.0	61.8	81.0	100.9	114.8
14.8	39.6	62.1	81.4	101.2	115.0
15.3	40.3	62.5	81.8	101.4	115.3
15.7	40.8	62.9	82.2	101.7	115.6
16.2	41.4	63.2	82.6	101.9	115.9
16.7	41.9	63.6	83.0	102.2	116.1
17.2	42.6	64.0	83.4	102.5	116.3
17.5	43.0	64.4	83.8	102.7	116.6
17.9	43.4	64.7	84.2	103.0	116.9
18.4	43.7	65.0	84.5	103.2	117.1
18.7	44.1	65.5	84.9	103.5	117.4
19.3	44.5	65.8	85.4	103.8	
19.6	45.0	66.2	85.6	104.0	
20.3	45.4	66.5	86.0	104.3	
20.8	45.8	67.0	86.5	104.5	
21.3	46.3	67.3	87.0	104.8	
21.8	46.7	67.7	87.4	105.1	
22.4	47.1	68.0	87.8	105.3	
22.9	47.6	68.3	88.2	105.6	
23.4	48.0	68.7	88.5	105.8	
23.8	48.4	69.0	88.9	106.1	
24.2	48.9	69.5	89.4	106.4	
24.5	49.3	69.8	89.9	106.6	
24.8	49.7	70.1	91.3	106.9	
25.3	50.2	70.5	91.7	107.1	
25.7	50.6	70.8	92.2	107.4	
26.1	51.0	71.0	92.6	107.7	
26.5	51.5	71.4	93.0	107.9	

CORRELATED CBR VALUES



Notes:
SG = Subgrade

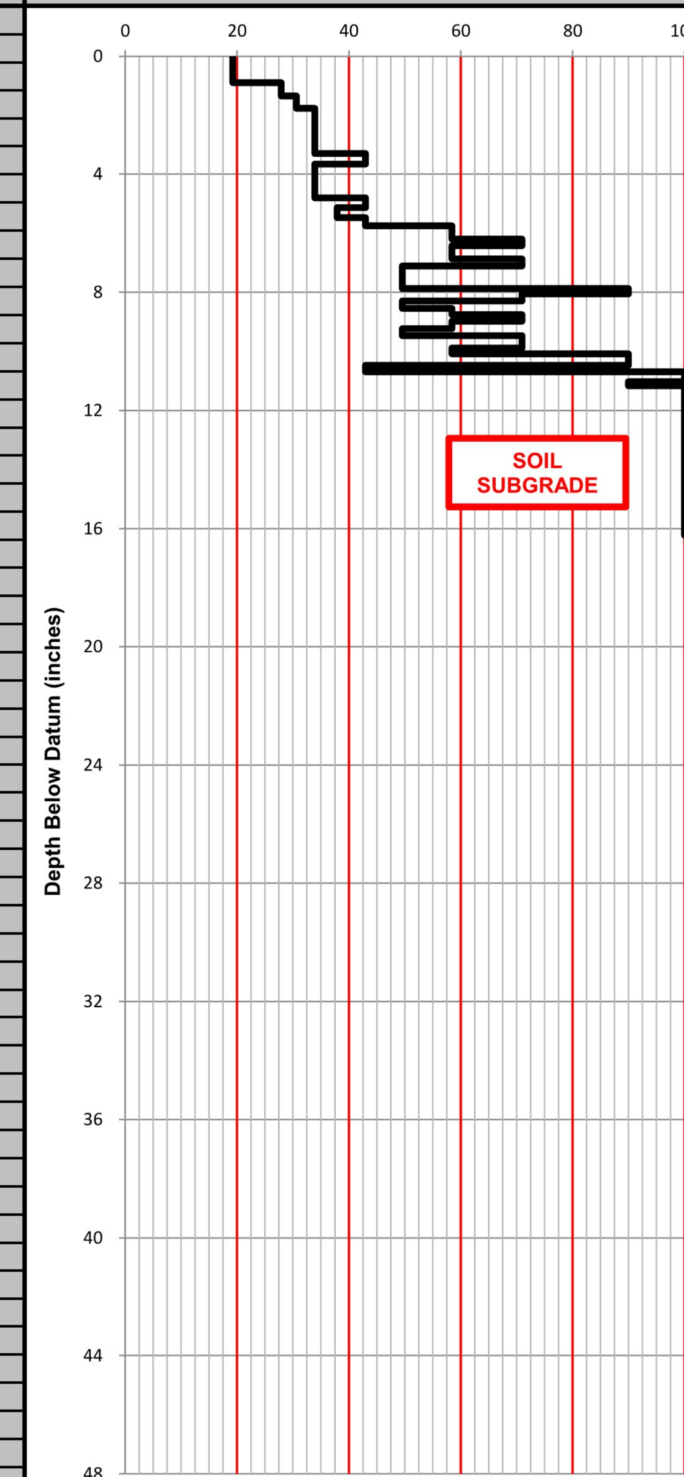
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 75+00 NB-OSS			4/24/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	CUT	504,388	2,003,045

CUMULATIVE PENETRATION IN CENTIMETERS

1.7	31.7
2.9	31.9
4.0	32.1
5.0	32.3
6.0	32.5
7.0	32.7
8.0	32.9
8.8	33.1
9.8	33.3
10.8	33.5
11.8	33.7
12.6	33.9
13.5	34.1
14.3	34.3
14.9	34.6
15.5	34.8
16.0	35.0
16.6	35.2
17.2	35.4
17.7	35.6
18.4	35.8
19.1	36.0
19.8	36.2
20.2	36.4
20.7	36.6
21.4	36.7
22.0	36.9
22.5	37.1
23.1	37.3
23.8	37.5
24.3	37.7
24.8	37.9
25.4	38.1
25.8	38.3
26.2	38.5
27.0	38.7
27.3	38.9
27.5	39.1
27.8	39.3
28.2	39.5
28.5	39.7
28.8	39.9
29.0	40.0
29.3	40.2
29.5	40.4
29.8	40.6
30.1	40.8
30.4	40.9
30.6	41.1
30.8	41.3
31.0	
31.3	
31.5	

CORRELATED CBR VALUES



Notes:
DCP REFUSAL (>50/4") IN SUBGRADE AT 16.2 INCHES
SG = Subgrade

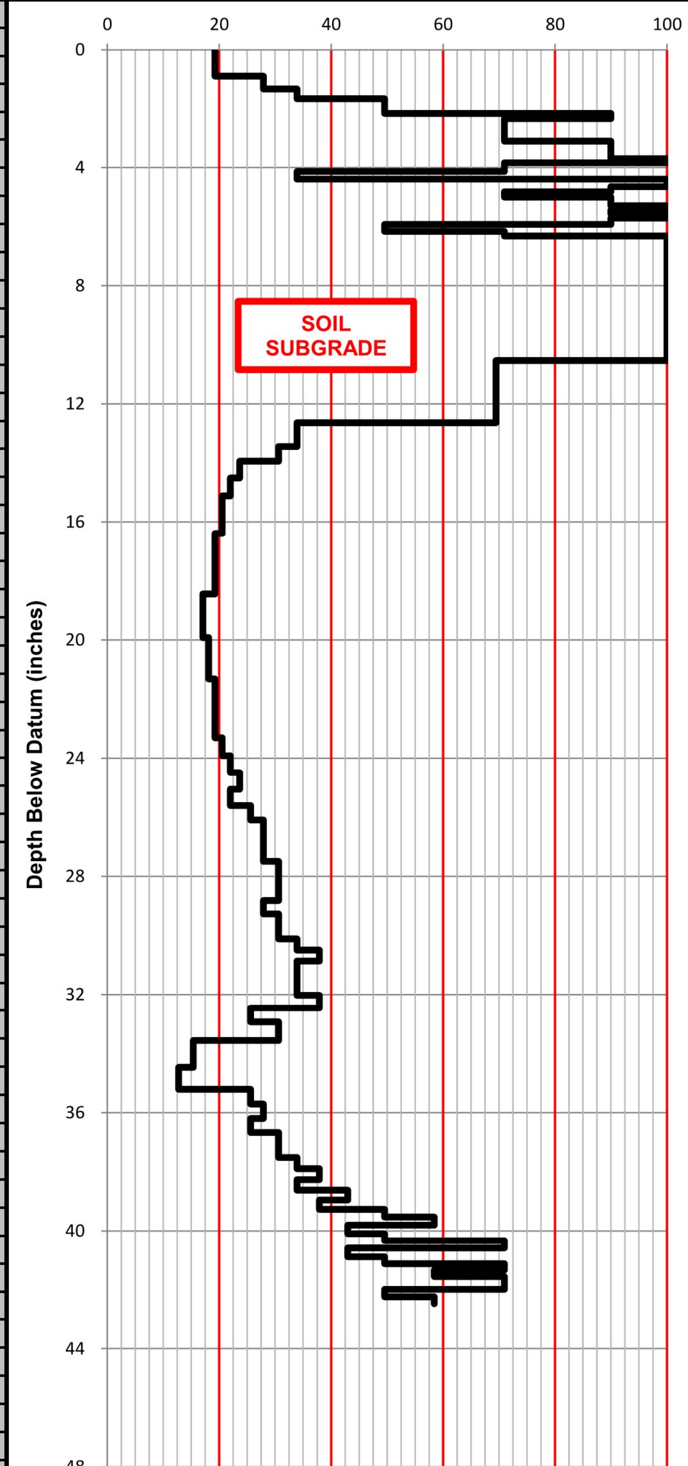
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 75+00 NB-DECEL			4/24/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	CUT	504,382	2,003,044

CUMULATIVE PENETRATION IN CENTIMETERS

1.7	22.5	73.8
2.9	22.8	74.9
3.9	23.0	76.0
4.6	23.3	77.0
5.3	23.5	77.9
5.7	23.8	78.9
6.2	24.1	79.9
6.7	24.4	80.9
7.2	24.7	81.8
7.7	25.0	83.1
8.1	25.3	84.2
8.5	25.6	86.3
8.9	25.9	88.8
9.3	26.2	90.1
9.5	26.5	91.3
10.0	27.0	92.6
11.0	27.5	93.7
11.3	28.0	94.8
11.6	28.5	95.8
12.0	29.1	96.7
12.5	29.6	97.7
12.9	30.1	98.5
13.3	30.6	99.4
13.6	31.1	100.1
14.0	31.6	100.7
14.3	32.6	101.5
14.7	33.6	102.2
15.4	34.7	102.7
15.9	36.1	103.5
16.2	37.6	104.2
16.5	39.2	104.7
16.8	40.8	105.3
17.1	42.5	105.8
17.4	44.2	106.3
17.7	45.9	107.0
17.9	47.8	107.6
18.2	49.7	108.2
18.4	51.5	
18.7	53.3	
18.9	55.0	
19.2	56.7	
19.4	58.4	
19.7	60.0	
20.0	61.5	
20.2	62.9	
20.5	64.4	
20.7	65.7	
21.0	66.9	
21.3	68.1	
21.5	69.3	
21.8	70.4	
22.0	71.5	
22.3	72.6	

CORRELATED CBR VALUES



Notes:
SG = Subgrade

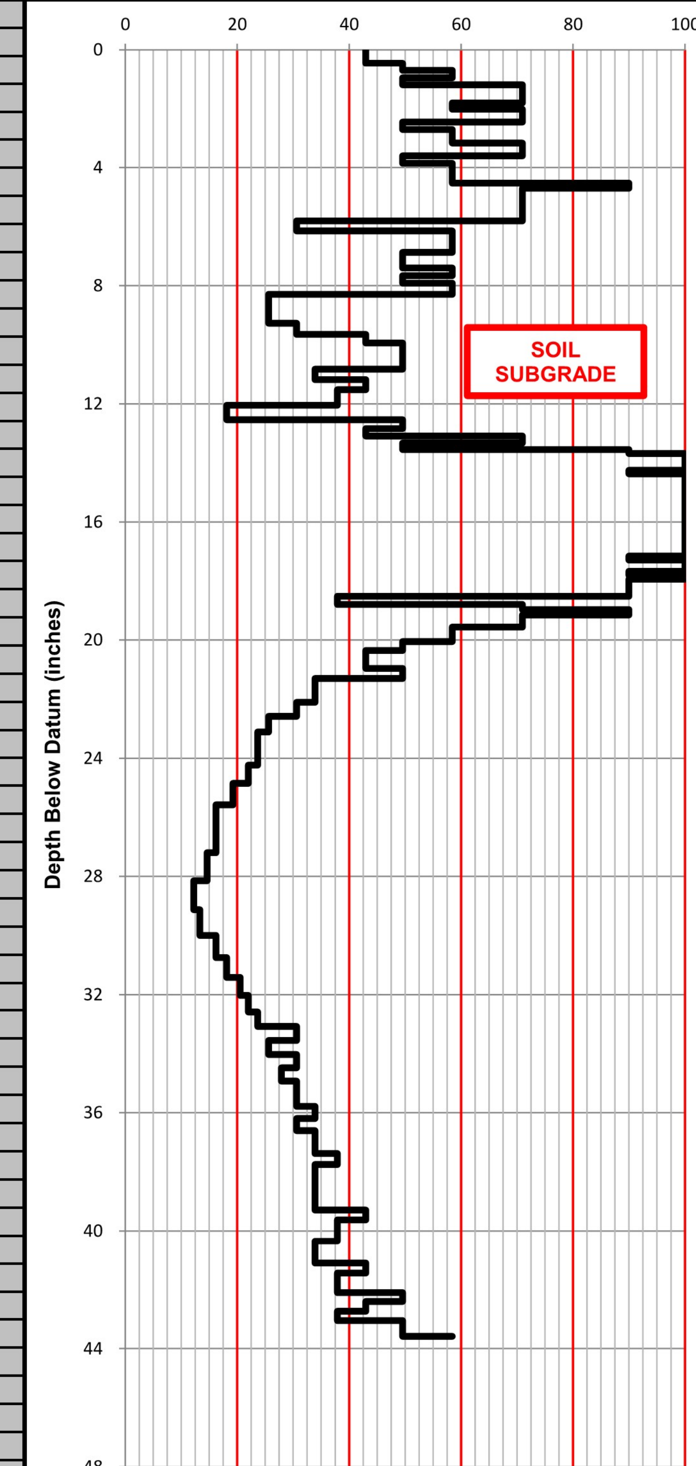
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 75+00 NB-GORE			4/24/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	CUT	504,360	2,003,064

CUMULATIVE PENETRATION IN CENTIMETERS

0.8	35.8	56.7
1.5	36.0	58.0
2.1	36.4	59.4
2.8	36.6	60.8
3.3	36.8	62.3
3.8	37.1	64.0
4.3	37.3	66.0
4.9	37.5	68.0
5.4	37.7	70.2
5.9	38.0	72.8
6.6	38.2	75.2
7.2	38.5	77.2
7.8	38.8	79.0
8.3	39.0	80.6
8.8	39.2	82.1
9.5	39.5	83.5
10.1	39.7	84.6
10.7	40.0	85.9
11.3	40.1	87.0
11.7	40.4	88.2
12.2	40.7	89.3
12.7	41.0	90.4
13.2	41.2	91.4
13.7	41.4	92.5
14.2	41.7	93.5
15.3	41.9	94.5
15.9	42.2	95.4
16.5	42.5	96.4
17.1	42.8	97.4
17.8	43.1	98.4
18.5	43.4	99.4
19.1	43.8	100.2
19.8	44.1	101.1
20.4	44.4	102.0
21.7	44.7	103.0
23.0	45.1	104.0
24.1	45.4	104.8
24.9	45.8	105.7
25.6	46.2	106.6
26.3	46.6	107.3
27.0	47.5	108.1
28.0	48.0	109.0
28.8	48.4	109.7
29.7	48.9	110.4
31.5	49.4	111.0
32.2	50.0	
33.0	50.6	
33.5	51.3	
34.2	52.1	
34.6	52.9	
34.9	53.6	
35.2	54.6	
35.5	55.6	

CORRELATED CBR VALUES



Notes:
SG = Subgrade

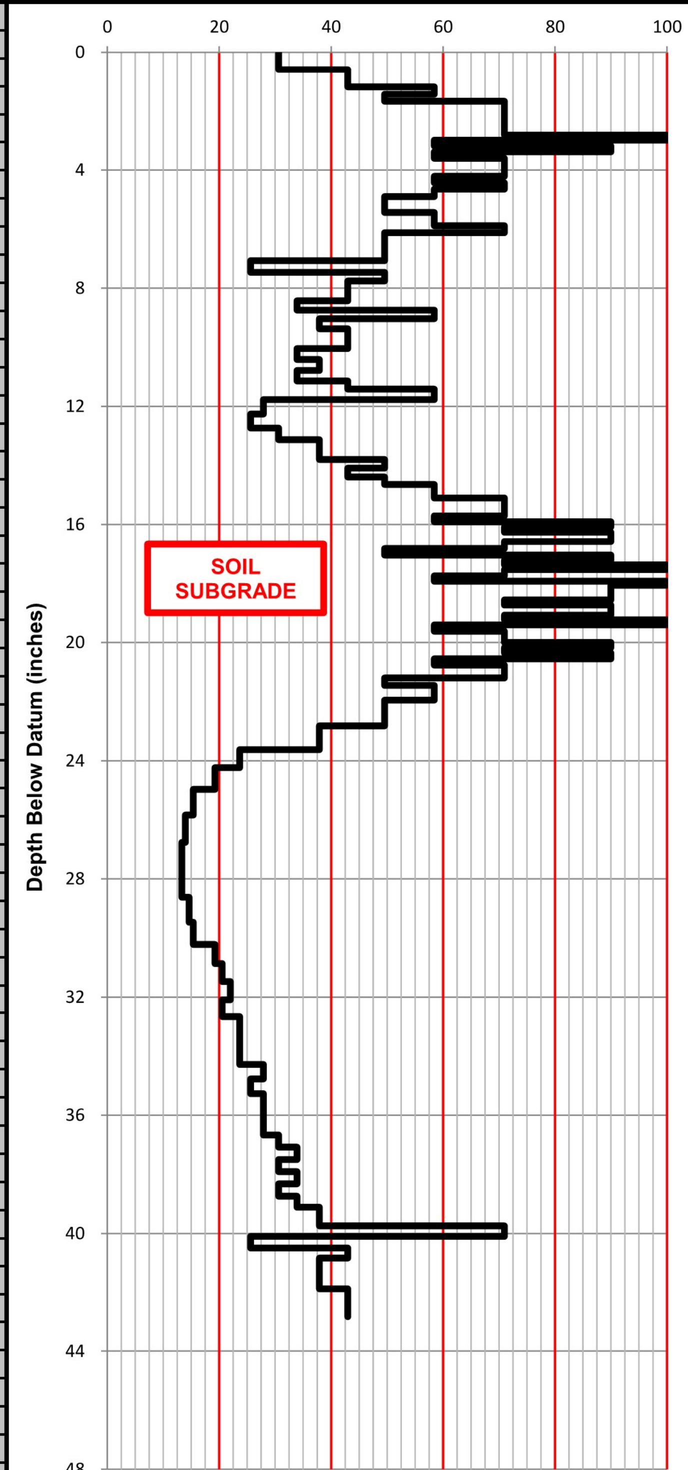
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 75+00 NB-OSL			4/24/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	CUT	504,346	2,003,086

CUMULATIVE PENETRATION IN CENTIMETERS

1.1	38.6	83.7
1.9	39.1	85.1
2.7	39.6	86.5
3.3	40.2	87.7
4.0	40.6	89.0
4.5	41.1	90.2
5.0	41.5	91.4
5.5	41.9	92.6
6.0	42.4	93.7
6.5	43.1	94.7
7.0	43.5	95.8
7.3	44.0	96.8
7.9	44.3	97.9
8.3	44.8	98.9
8.9	45.4	99.8
9.4	45.7	100.7
9.9	46.1	101.2
10.4	46.5	102.5
11.0	46.9	103.3
11.5	47.4	104.2
12.1	47.8	105.1
12.8	48.2	106.0
13.5	48.7	106.8
14.1	49.0	107.6
14.7	49.6	108.4
15.2	50.1	109.2
15.9	50.6	
16.6	51.0	
17.3	51.5	
18.6	51.9	
19.3	52.5	
20.1	53.0	
20.9	53.5	
21.9	54.2	
22.5	54.8	
23.4	55.4	
24.2	56.1	
25.0	56.8	
26.0	57.5	
26.9	58.4	
27.9	59.3	
28.7	60.7	
29.3	62.4	
30.5	64.5	
31.8	66.8	
32.9	69.2	
33.8	71.6	
34.7	73.8	
35.4	75.9	
36.2	77.6	
36.9	79.2	
37.5	80.7	
38.1	82.3	

CORRELATED CBR VALUES



Notes:
SG = Subgrade

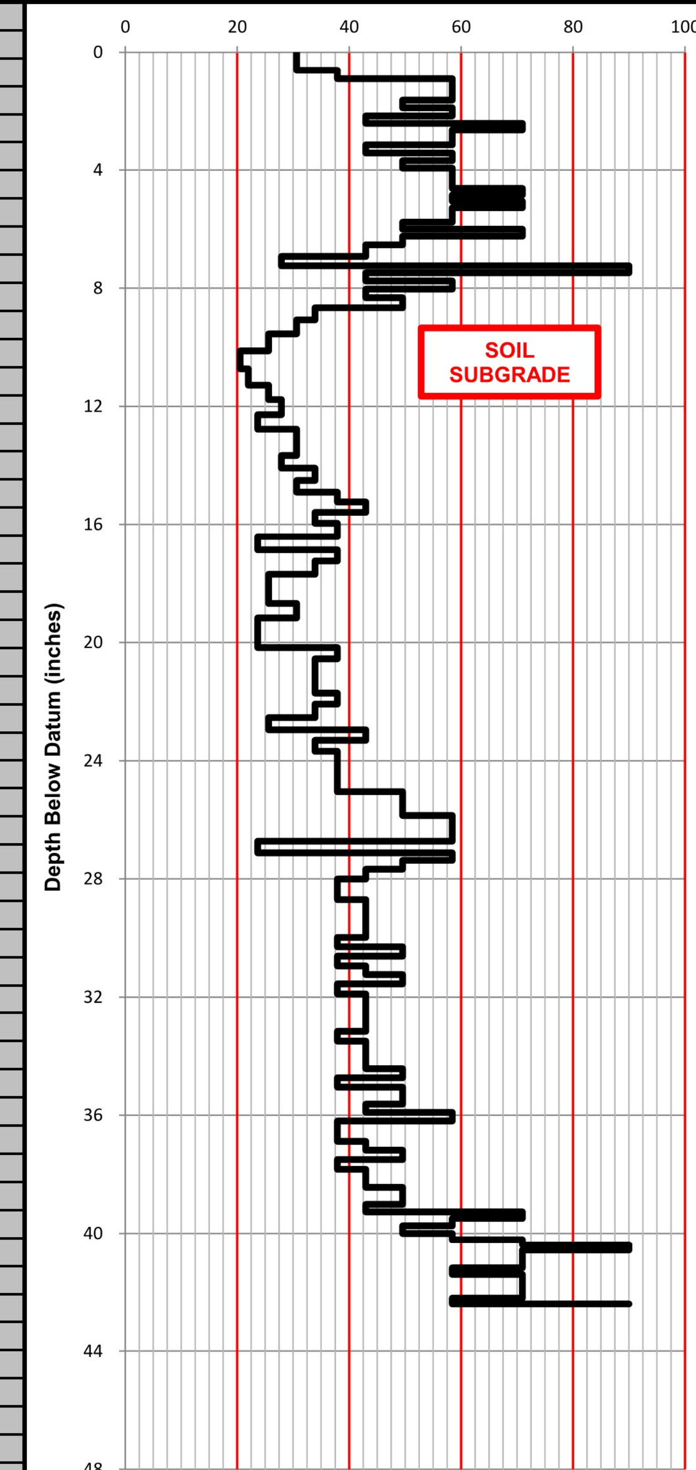
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 75+00 NB-ISL			4/21/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	CUT	504,341	2,003,034

CUMULATIVE PENETRATION IN CENTIMETERS

1.1	46.9	92.4
2.0	48.0	93.3
2.6	49.4	94.1
3.2	50.8	94.8
3.8	51.7	95.7
4.5	52.7	96.5
5.1	53.7	97.3
5.9	54.7	98.0
6.4	55.6	98.7
7.0	56.6	99.5
7.6	57.9	100.0
8.4	58.7	100.6
9.0	59.7	101.3
9.7	60.6	101.9
10.3	61.5	102.4
10.9	62.4	102.8
11.5	63.3	103.3
12.0	64.0	103.8
12.6	64.7	104.3
13.1	65.4	104.9
13.7	66.0	105.4
14.3	66.6	105.9
15.0	67.2	106.4
15.5	68.6	106.9
16.2	69.2	107.5
17.0	69.9	107.9
18.2	70.7	
18.6	71.6	
19.4	72.5	
20.0	73.3	
20.8	74.1	
21.5	74.9	
22.5	75.7	
23.6	76.6	
24.9	77.3	
26.5	78.2	
28.0	79.0	
29.3	79.7	
30.5	80.6	
31.9	81.4	
33.0	82.2	
34.1	83.0	
35.3	83.8	
36.3	84.7	
37.4	85.5	
38.3	86.3	
39.1	87.1	
40.1	87.8	
41.0	88.7	
42.4	89.4	
43.3	90.1	
44.3	90.9	
45.6	91.5	

CORRELATED CBR VALUES



Notes:
SG = Subgrade

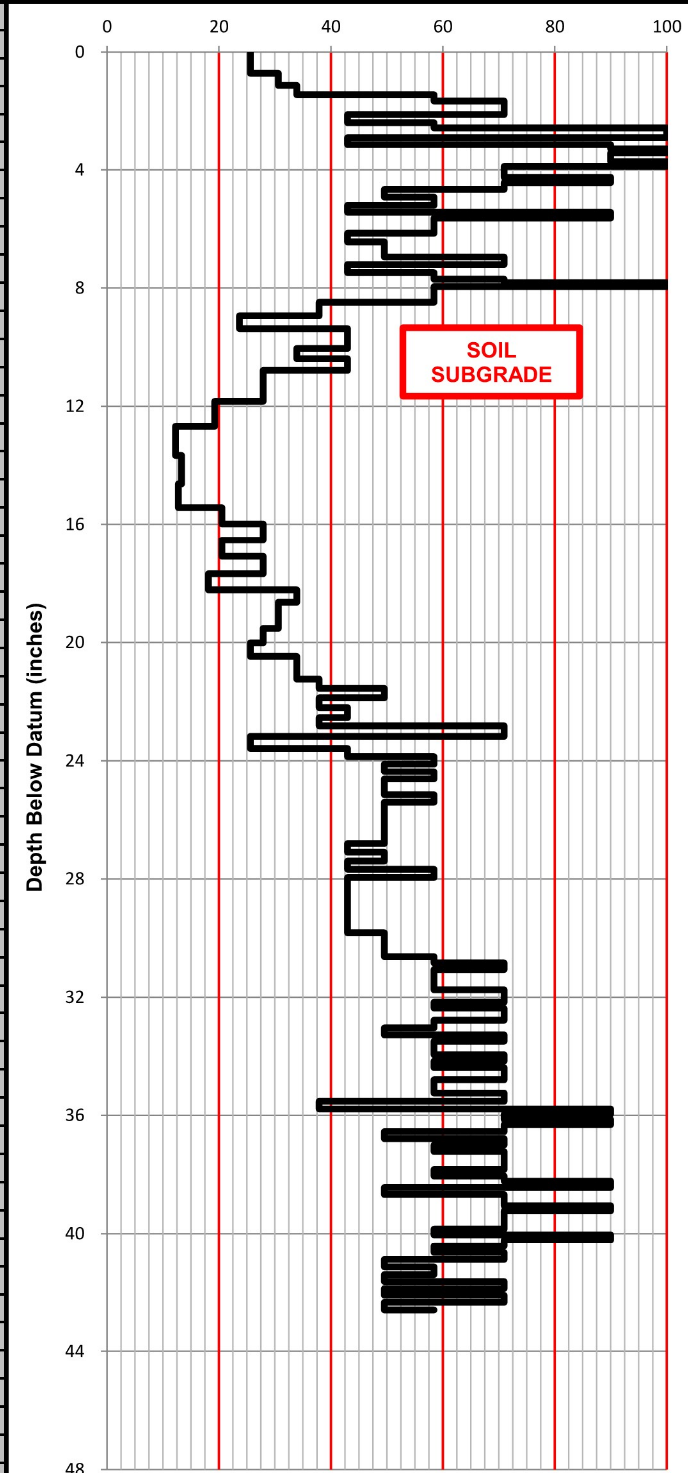
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 75+00 NB-ISS			4/21/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	CUT	504,333	2,003,032

CUMULATIVE PENETRATION IN CENTIMETERS

1.3	46.8	86.0
2.4	47.9	86.5
3.4	49.0	87.1
4.0	50.2	87.6
4.5	51.5	88.1
5.0	52.5	88.7
5.8	53.5	89.3
6.4	54.4	89.8
6.7	55.1	90.7
7.0	56.0	91.1
7.8	56.8	91.6
8.2	57.7	92.0
8.5	58.2	92.5
8.9	59.5	93.2
9.3	60.3	93.7
9.6	60.9	94.3
10.1	61.6	94.8
10.6	62.2	95.3
11.0	62.9	95.8
11.5	63.6	96.4
12.2	64.2	96.9
12.8	64.9	97.3
13.6	65.6	98.0
14.0	66.3	98.5
14.6	67.0	99.0
15.2	67.7	99.4
16.0	68.5	99.9
16.7	69.2	100.4
17.4	70.0	100.9
17.9	70.6	101.5
18.7	71.4	101.9
19.3	72.2	102.4
19.8	73.0	103.0
19.9	73.8	103.5
20.5	74.6	104.2
21.1	75.4	104.8
22.0	76.1	105.5
23.4	76.8	106.0
24.2	77.5	106.7
25.0	78.1	107.2
26.0	78.6	107.9
26.8	79.2	108.5
28.0	79.8	
29.2	80.4	
30.9	80.9	
33.5	81.4	
35.9	82.0	
38.4	82.5	
40.0	83.0	
41.2	83.6	
42.8	84.3	
44.0	84.8	
45.8	85.4	

CORRELATED CBR VALUES



Notes:
SG = Subgrade

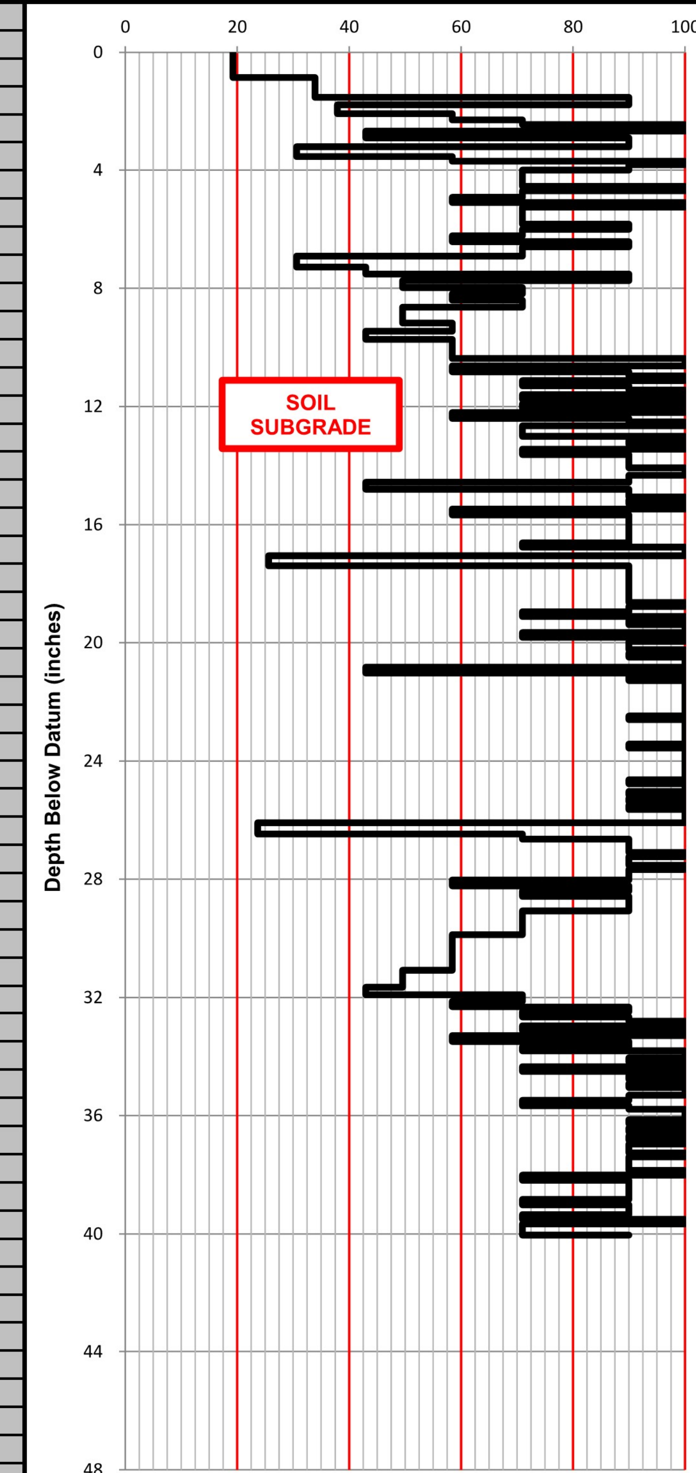
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 76+00 SB-OSS			4/22/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	CUT	504,255	2,002,899

CUMULATIVE PENETRATION IN CENTIMETERS

1.7	30.5	51.9	69.0	92.3
2.7	30.7	52.2	69.4	92.7
3.7	31.3	52.5	69.8	93.0
4.1	31.7	53.3	70.1	93.4
5.0	31.9	53.5	70.5	93.7
5.6	32.4	53.9	70.9	94.1
6.1	32.9	54.2	71.5	94.5
6.4	33.2	54.4	71.9	94.8
7.2	33.6	54.6	72.4	95.2
7.6	33.9	54.8	72.8	95.6
8.7	34.4	55.1	73.2	96.0
9.3	34.8	55.4	73.6	96.3
9.5	35.2	55.6	74.1	96.8
9.9	35.6	55.9	74.6	97.2
10.4	35.9	56.2	75.1	97.6
10.9	36.2	56.4	75.6	98.0
11.4	36.6	56.6	76.2	98.4
11.7	37.4	56.9	76.8	98.9
12.2	37.8	57.3	77.4	99.3
12.8	38.2	57.5	78.0	99.7
13.1	38.3	57.8	78.6	100.2
13.6	38.7	58.1	79.3	100.5
14.1	39.0	58.3	80.0	101.0
14.6	39.6	58.6	80.8	101.5
15.0	40.0	58.9	81.3	101.9
15.5	40.4	59.1	81.9	
16.1	40.8	59.3	82.3	
16.5	41.2	59.7	82.8	
17.0	41.6	60.0	83.2	
18.1	42.0	60.3	83.5	
18.9	42.5	60.5	84.0	
19.3	42.7	60.8	84.3	
20.0	44.0	61.1	84.9	
20.5	44.4	61.3	85.3	
21.1	44.8	61.6	85.8	
21.6	45.2	61.9	86.0	
22.3	45.6	62.1	86.3	
23.0	46.0	62.4	86.7	
23.6	46.4	62.8	87.0	
24.4	46.8	63.1	87.5	
25.0	47.2	63.4	87.8	
25.6	47.5	63.8	88.2	
26.2	47.9	64.0	88.5	
26.5	48.4	64.4	88.9	
26.7	48.7	64.6	89.2	
27.3	49.1	65.0	89.5	
27.7	49.4	65.3	89.9	
28.0	49.7	65.6	90.4	
28.5	50.2	67.0	90.8	
28.9	50.5	67.5	91.0	
29.2	50.9	67.9	91.3	
29.7	51.3	68.3	91.6	
30.0	51.5	68.7	92.0	

CORRELATED CBR VALUES



Notes:
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

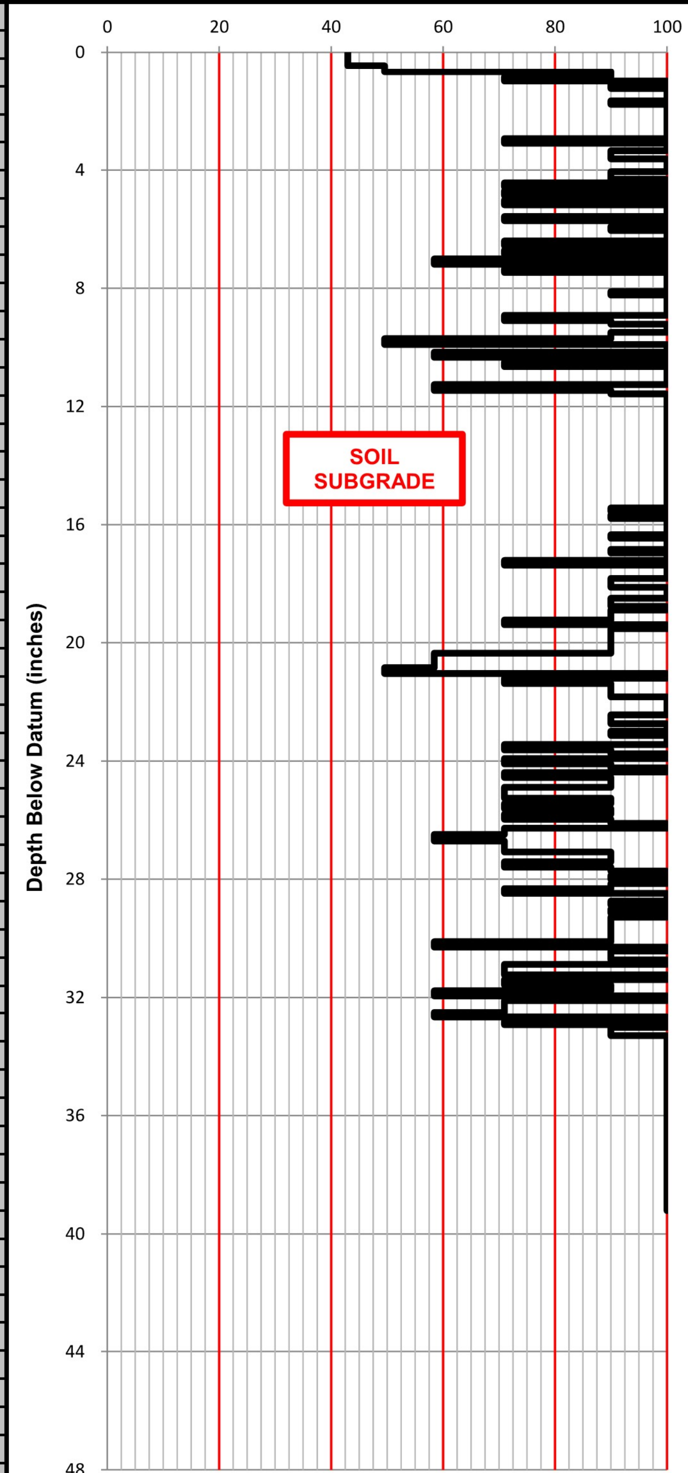
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 76+00 SB-OSL			4/22/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	CUT	504,264	2,002,900

CUMULATIVE PENETRATION IN CENTIMETERS

0.8	17.5	33.0	46.5	67.6	87.4
1.5	18.1	33.3	46.8	68.1	87.7
1.9	18.4	33.5	47.2	68.6	87.9
2.4	18.9	33.7	47.6	69.0	88.2
2.6	19.0	33.9	47.8	69.4	88.5
3.0	19.3	34.1	48.2	69.9	88.8
3.3	19.5	34.4	48.6	70.3	89.0
3.6	19.8	34.6	49.1	70.6	89.3
3.8	20.0	34.8	49.4	71.0	89.6
4.0	20.2	35.0	49.8	71.3	89.8
4.4	20.4	35.2	50.2	71.7	90.1
4.6	20.8	35.5	50.6	72.2	90.4
4.8	21.0	35.7	51.0	72.5	90.6
5.1	21.2	35.8	51.4	72.8	90.9
5.4	21.5	36.1	52.0	73.2	91.2
5.6	21.8	36.4	52.6	73.5	91.5
5.9	22.1	36.6	53.3	73.9	91.7
6.2	22.4	36.9	53.6	74.2	92.0
6.5	22.9	37.2	54.1	74.6	92.3
6.7	23.3	37.4	54.5	75.0	92.5
7.0	23.5	37.6	54.9	75.4	92.8
7.2	23.8	37.7	55.3	75.8	93.1
7.7	23.9	37.8	55.6	76.2	93.3
8.0	24.3	37.9	55.9	76.8	93.6
8.1	25.0	38.0	56.2	77.1	93.7
8.3	25.3	38.1	56.5	77.5	93.9
8.7	25.5	38.3	56.8	77.9	94.1
9.1	26.1	38.6	57.2	78.2	94.4
9.3	26.4	38.7	57.6	78.7	94.6
9.6	26.9	39.0	57.9	79.2	94.8
9.9	27.2	39.4	58.2	79.5	95.0
10.1	27.5	39.6	58.6	80.0	95.2
10.5	27.8	40.0	58.9	80.4	95.5
10.9	28.1	40.2	59.2	81.0	95.7
11.0	28.3	40.5	59.3	81.3	95.9
11.5	28.9	40.8	59.8	81.8	96.1
11.7	29.3	41.1	60.2	82.3	96.3
12.2	29.5	41.3	60.5	82.9	96.6
12.5	29.7	41.7	61.0	83.1	96.8
13.0	30.0	42.0	61.4	83.6	97.0
13.3	30.2	42.3	61.7	83.7	97.2
13.6	30.4	42.6	62.2	84.1	97.4
13.9	30.6	43.0	62.6	84.5	97.7
14.4	30.8	43.2	63.0	84.7	97.9
14.6	31.1	43.5	63.5	85.0	98.1
14.8	31.3	44.0	64.0	85.2	98.3
15.2	31.5	44.3	64.4	85.5	98.5
15.5	31.7	44.6	64.9	85.8	98.7
15.8	31.9	44.9	65.3	86.1	99.0
16.0	32.2	45.1	65.8	86.3	99.2
16.5	32.4	45.5	66.2	86.6	99.4
16.8	32.6	45.9	66.5	86.9	99.6
17.3	32.8	46.2	67.0	87.1	99.6

CORRELATED CBR VALUES



Notes:
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

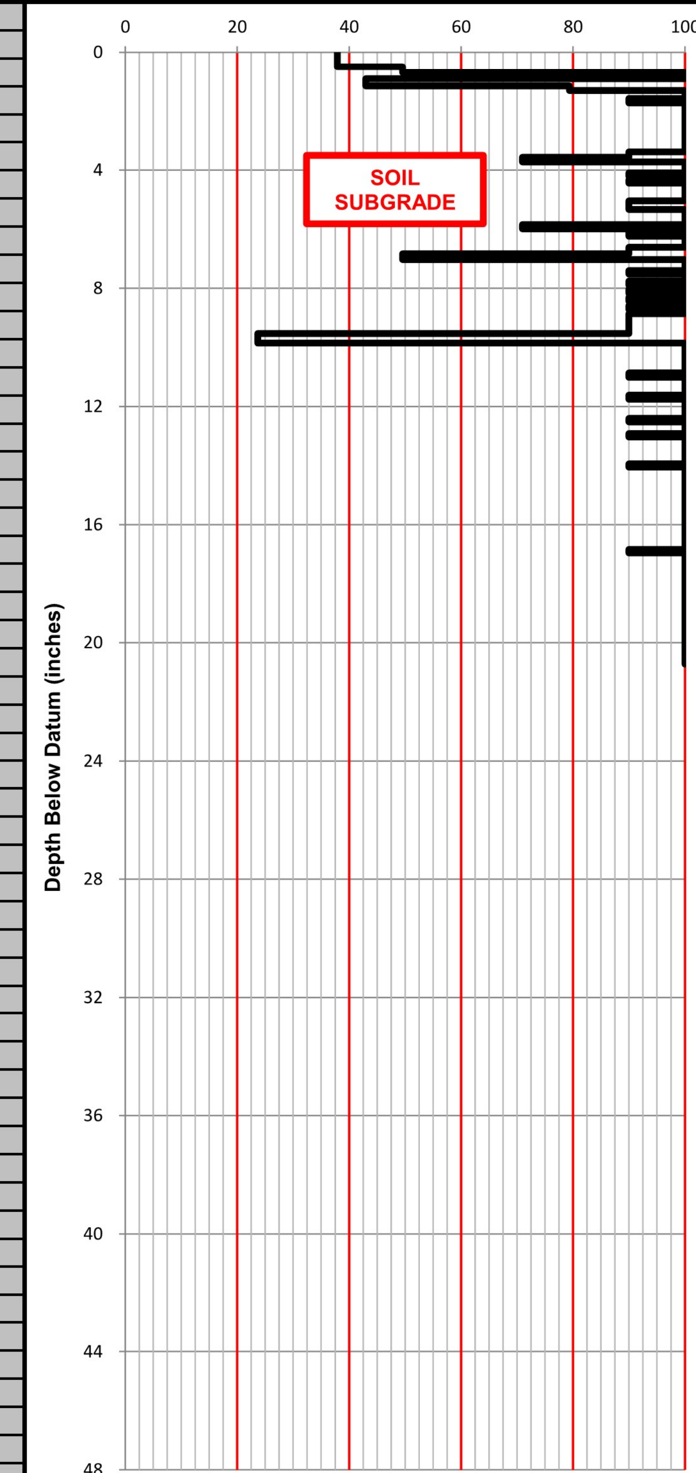
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 76+00 SB-ISL			4/23/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	CUT	504,280	2,002,901

CUMULATIVE PENETRATION IN CENTIMETERS

0.9	19.0	36.1	45.9		
1.6	19.2	36.3	46.1		
1.9	19.5	36.6	46.2		
2.7	19.9	36.8	46.4		
3.2	20.2	37.0	46.5		
3.5	20.6	37.2	46.7		
3.8	20.9	37.3	46.9		
4.2	21.3	37.5	47.0		
4.6	21.6	37.7	47.2		
4.8	22.0	37.9	47.3		
5.0	22.3	38.0	47.5		
5.3	22.7	38.2	47.7		
5.6	23.1	38.4	47.9		
5.9	23.5	38.6	48.1		
6.2	24.9	38.7	48.3		
6.4	25.2	39.0	48.5		
6.7	25.5	39.2	48.7		
7.0	25.8	39.4	48.9		
7.3	26.2	39.5	49.1		
7.7	26.5	39.6	49.3		
7.9	26.8	39.8	49.5		
8.2	27.1	40.0	49.7		
8.4	27.4	40.2	49.9		
8.8	27.8	40.4	50.0		
9.3	28.2	40.5	50.2		
9.6	28.4	40.7	50.4		
9.9	28.7	40.9	50.6		
10.2	29.0	41.0	50.8		
10.6	29.3	41.2	50.9		
10.8	29.7	41.4	51.1		
11.2	30.0	41.6	51.3		
11.4	30.3	41.8	51.4		
11.7	30.5	42.0	51.6		
12.0	30.8	42.1	51.8		
12.3	31.0	42.2	51.9		
12.6	31.3	42.4	52.1		
13.0	31.7	42.6	52.2		
13.4	31.9	43.0	52.4		
13.7	32.2	43.2	52.6		
14.0	32.4	43.4	52.7		
14.4	32.6	43.7			
14.6	33.0	43.8			
15.1	33.2	44.0			
15.3	33.5	44.1			
15.7	33.7	44.3			
16.0	33.9	44.5			
16.3	34.1	44.6			
16.6	34.4	44.8			
17.0	34.7	45.0			
17.7	34.9	45.2			
18.0	35.2	45.4			
18.3	35.6	45.5			
18.6	35.8	45.7			

CORRELATED CBR VALUES



Notes:
DCP REFUSAL (>50/4") IN SUBGRADE AT 20.7 INCHES
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

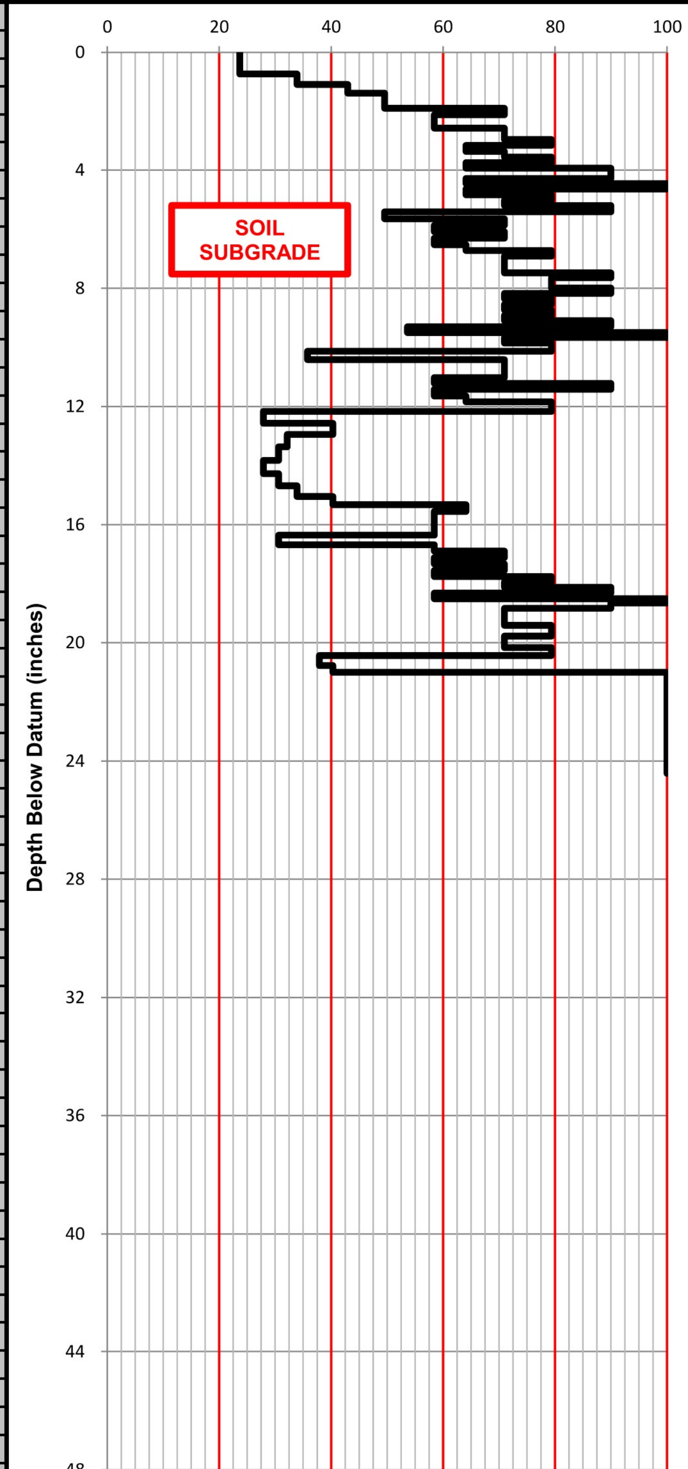
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 76+00 SB-ISS			4/23/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	CUT	504,287	2,002,902

CUMULATIVE PENETRATION IN CENTIMETERS

1.4	29.3	56.4
2.4	29.9	56.6
3.2	30.3	56.7
3.9	31.5	56.9
4.6	32.4	57.0
5.1	33.4	57.1
5.7	34.5	57.3
6.3	35.7	57.4
6.8	36.8	57.5
7.3	37.8	57.7
7.8	38.7	57.8
8.3	39.2	57.9
8.8	39.8	58.0
9.3	40.4	58.2
9.8	41.0	58.3
10.2	42.1	58.4
10.6	42.7	58.6
11.2	43.2	58.7
11.5	43.8	58.8
12.1	44.3	58.9
12.5	44.9	59.0
13.0	45.4	59.2
13.4	45.9	59.3
14.1	46.3	59.4
14.6	46.9	59.5
15.2	47.2	59.6
15.7	47.6	59.7
16.3	48.1	59.9
16.9	48.6	60.0
17.3	49.1	60.1
17.8	49.6	60.2
18.3	50.0	60.3
18.8	50.5	60.4
19.2	51.0	60.5
19.7	51.5	60.6
20.1	52.4	60.7
20.5	53.2	60.9
21.0	53.5	61.0
21.5	53.7	61.2
22.0	54.0	61.3
22.4	54.2	61.4
22.9	54.4	61.6
23.3	54.6	61.7
24.0	54.8	61.9
24.3	55.0	62.0
24.8	55.1	62.1
25.3	55.3	
26.2	55.5	
26.7	55.7	
27.2	55.8	
27.7	56.0	
28.3	56.1	
28.7	56.3	

CORRELATED CBR VALUES



Notes:
DCP REFUSAL (>50/4") IN SUBGRADE AT 24.4 INCHES
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

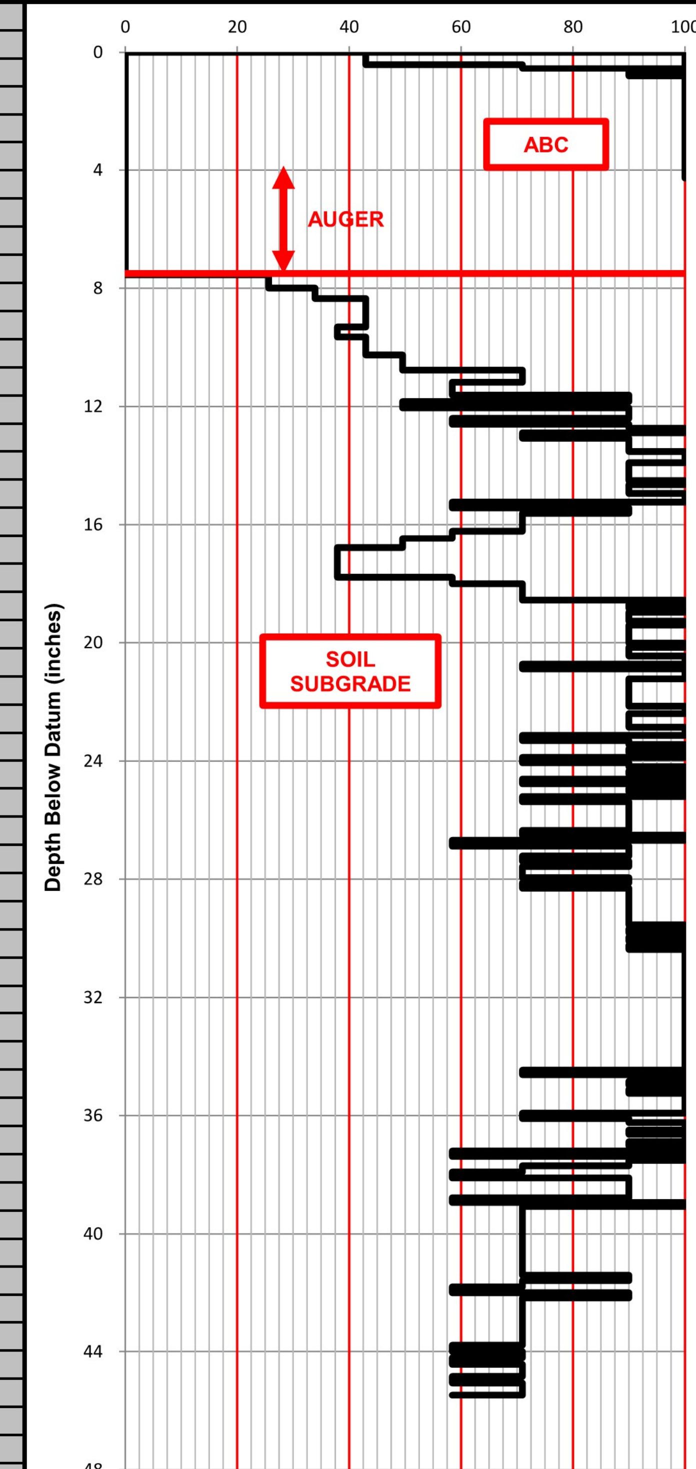
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 95+00 NB-OSL			4/24/2025
DATUM	CUT / FILL	NORTHING	EASTING
ABC	FILL	504,314	2,001,006

CUMULATIVE PENETRATION IN CENTIMETERS

0.8	10.3	44.9	65.1	85.0	105.9
1.3	10.5	45.5	65.5	85.3	106.5
1.5	10.6	46.0	65.9	85.7	106.9
1.9	10.8	46.5	66.3	86.0	107.4
2.2	10.9	47.0	66.7	86.3	107.9
2.4	REF	47.3	67.2	86.6	108.4
2.6	18.5	47.7	67.5	87.0	108.9
2.9	19.8	48.0	68.1	87.3	109.4
3.1	20.8	48.4	68.5	87.8	109.9
3.3	21.6	48.8	68.9	88.1	110.4
3.5	22.4	49.1	69.4	88.3	110.9
3.7	23.2	49.5	69.8	88.7	111.5
3.9	24.1	49.9	70.3	89.0	112.0
4.1	24.9	50.3	70.8	89.4	112.6
4.4	25.7	50.7	71.2	89.7	113.1
4.5	26.4	51.0	71.7	90.0	113.6
4.5	27.1	51.4	72.1	90.3	114.2
4.6	27.6	51.8	72.5	90.5	114.7
4.8	28.1	52.1	72.9	90.8	115.2
4.9	28.7	52.4	73.3	91.0	115.8
5.1	29.3	52.9	73.7	91.5	
5.2	29.7	53.2	74.1	91.9	
5.4	30.4	53.5	74.5	92.2	
5.5	30.8	53.7	74.9	92.5	
5.7	31.2	54.1	75.2	92.9	
5.8	31.8	54.5	75.6	93.2	
6.0	32.2	54.9	75.9	93.5	
6.1	32.5	55.3	76.3	93.9	
6.3	33.0	55.7	76.6	94.2	
6.5	33.4	56.1	77.0	94.8	
6.7	33.8	56.4	77.3	95.1	
6.9	34.2	56.7	77.6	95.5	
7.1	34.5	57.1	77.9	96.0	
7.2	34.8	57.5	78.3	96.6	
7.4	35.1	57.9	78.6	97.0	
7.6	35.5	58.2	78.9	97.4	
7.8	35.9	58.5	79.2	97.8	
8.0	36.3	59.0	79.5	98.2	
8.2	36.7	59.4	79.9	98.8	
8.3	37.0	59.7	80.2	99.0	
8.5	37.4	60.1	80.5	99.5	
8.6	37.8	60.4	80.9	100.0	
8.8	38.1	60.9	81.2	100.5	
8.9	38.4	61.3	81.6	101.0	
9.1	39.0	61.6	81.9	101.5	
9.2	39.4	62.0	82.3	102.0	
9.4	39.9	62.3	82.6	102.5	
9.5	40.4	62.8	83.0	103.0	
9.6	40.9	63.1	83.3	103.5	
9.8	41.5	63.5	83.7	104.0	
9.9	42.2	63.8	84.0	104.5	
10.1	43.1	64.3	84.3	105.0	
10.2	44.0	64.7	84.7	105.4	

CORRELATED CBR VALUES

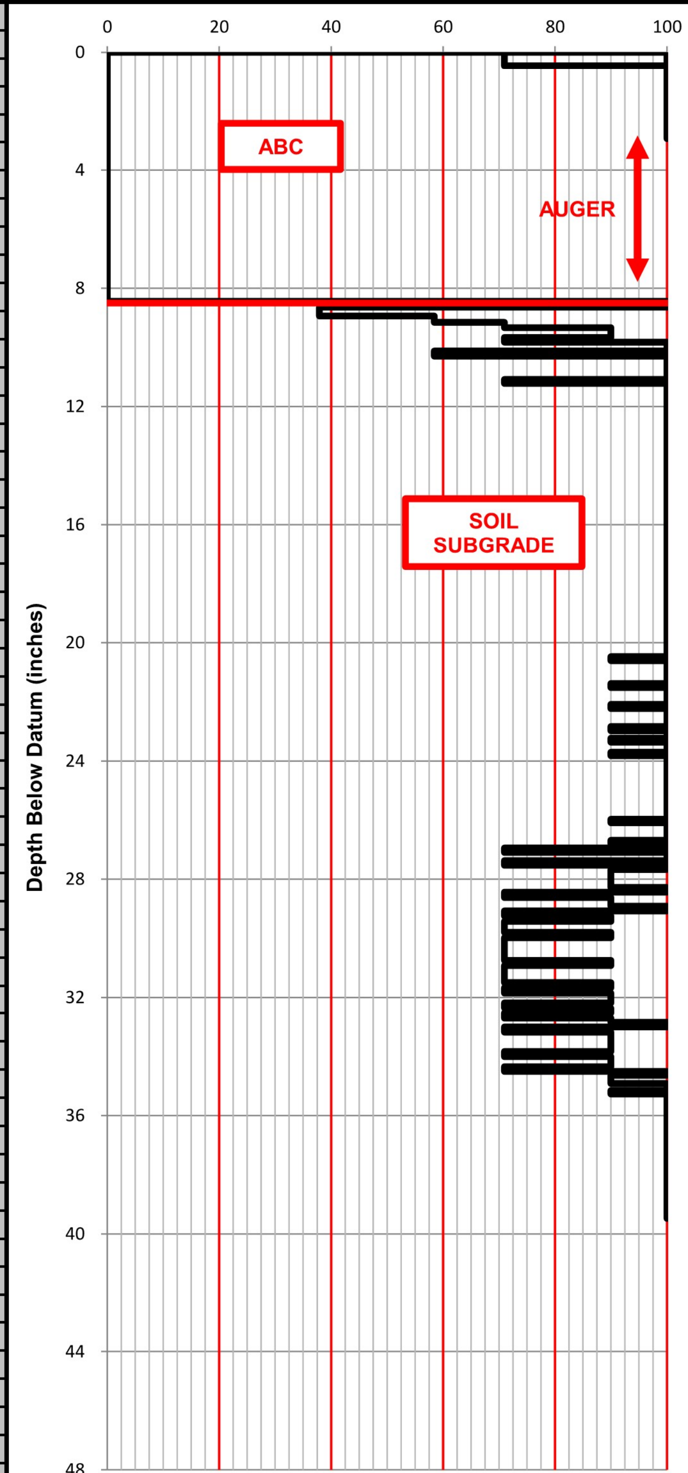


Notes:
DCP REFUSAL (>50/4") IN ABC AT 4.3 INCHES. AUGER TO 7.5 INCHES AND RESUME IN SUBGRADE.
ABC = Aggregate Base Course

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR		PROJECT NUMBER	TIP	ROUTE
		49218.26	N/A	All American Freeway
		COUNTY	GEOLOGIST	TECHNICIANS
		Cumberland	Smith, B.	White, J. & Murray, T.
TEST LOCATION DESCRIPTION		DATE RUN	CORRELATED CBR VALUES	
AAF 95+00 NB-ISL		4/24/2025		
DATUM	CUT / FILL	NORTHING	EASTING	
ABC	FILL	504,301	2,001,006	

CUMULATIVE PENETRATION IN CENTIMETERS

0.5	7.3	34.3	47.3	62.6	82.9
1.0	7.4	34.5	47.6	62.9	83.3
1.3	7.5	34.7	47.8	63.1	83.6
1.4	REF	34.9	48.1	63.4	84.1
1.5	21.4	35.1	48.4	63.7	84.5
1.8	21.5	35.3	48.7	64.0	84.9
1.9	22.4	35.5	49.0	64.3	85.3
2.0	23.0	35.7	49.3	64.6	85.7
2.2	23.5	35.9	49.6	64.9	86.2
2.3	23.9	36.1	49.8	65.2	86.6
2.4	24.3	36.3	50.1	65.5	87.0
2.5	24.8	36.5	50.4	65.8	87.5
2.6	25.1	36.7	50.7	66.2	87.8
2.8	25.4	36.9	51.0	66.4	88.2
2.9	26.0	37.1	51.2	66.7	88.6
3.0	26.3	37.3	51.5	67.0	88.8
3.1	26.5	37.5	51.8	67.3	89.1
3.3	26.8	37.7	52.2	67.6	89.5
3.4	27.1	37.9	52.5	68.0	89.7
3.5	27.4	38.1	52.8	68.2	90.0
3.7	27.7	38.3	53.1	68.7	90.3
3.8	27.9	38.6	53.4	69.0	90.6
3.9	28.4	38.8	53.6	69.3	91.0
4.0	28.6	39.1	53.9	69.8	91.3
4.2	28.8	39.3	54.1	70.1	91.6
4.3	29.0	39.5	54.5	70.5	91.9
4.4	29.3	39.8	54.8	70.9	92.2
4.5	29.4	40.0	55.1	71.3	92.6
4.7	29.7	40.3	55.4	71.7	92.9
4.8	29.9	40.5	55.6	72.0	93.2
4.9	30.0	40.8	55.9	72.5	93.5
5.0	30.2	41.1	56.3	72.9	93.8
5.1	30.4	41.3	56.6	73.3	94.1
5.3	30.6	41.6	56.9	73.6	94.4
5.4	30.8	41.9	57.2	74.1	94.7
5.5	31.0	42.2	57.5	74.5	95.0
5.6	31.1	42.5	57.8	75.0	95.3
5.7	31.4	42.7	58.2	75.5	95.6
5.9	31.5	43.0	58.5	75.9	95.9
6.0	31.8	43.3	58.8	76.4	96.2
6.1	32.0	43.6	59.2	76.9	96.5
6.2	32.1	43.9	59.5	77.4	96.9
6.3	32.4	44.1	59.8	77.9	97.2
6.5	32.5	44.4	60.0	78.3	97.5
6.6	32.8	44.7	60.4	78.8	97.9
6.7	32.9	45.0	60.6	79.3	98.2
6.8	33.0	45.3	60.9	79.8	98.5
6.9	33.2	45.5	61.2	80.2	98.8
6.9	33.5	45.8	61.4	80.7	99.2
7.0	33.6	46.1	61.7	81.1	99.5
7.1	33.8	46.4	62.0	81.5	99.8
7.2	34.0	46.7	62.2	82.0	100.1
7.3	34.1	47.0	62.4	82.4	100.4

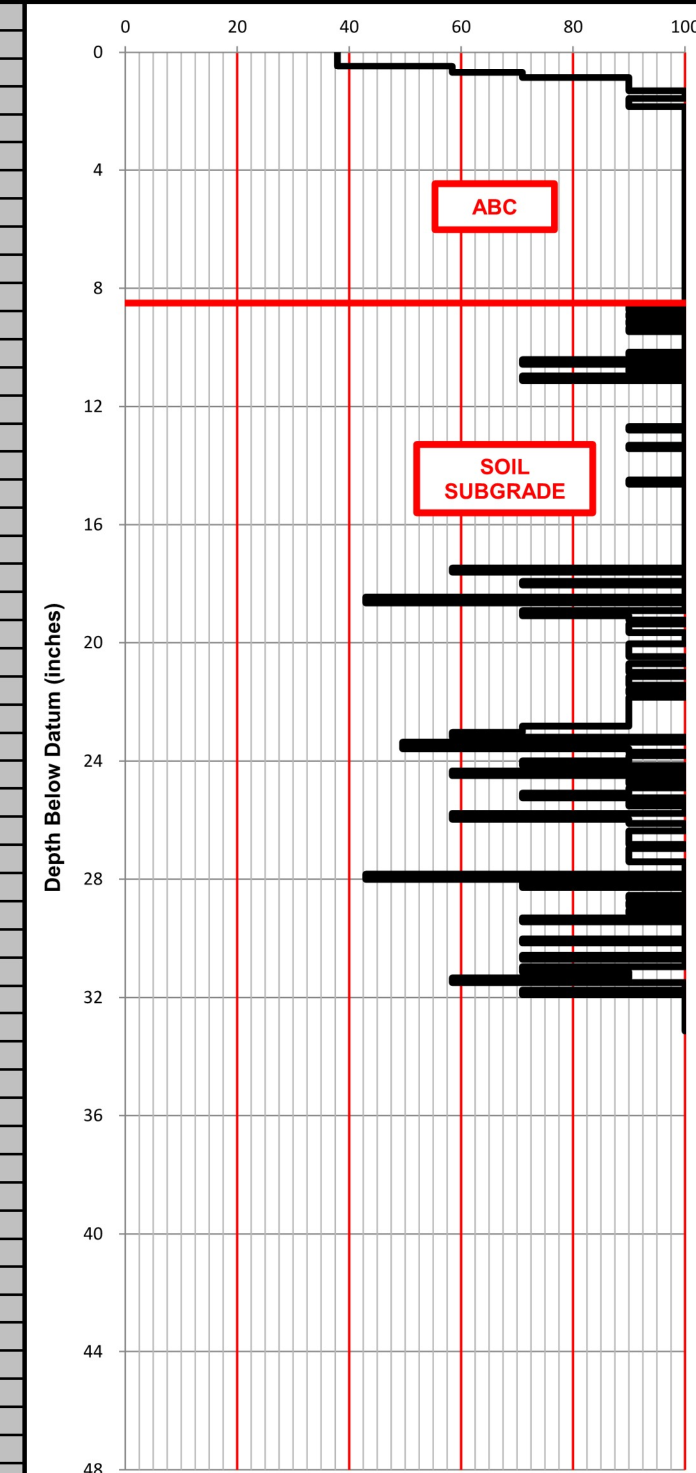


Notes:
DCP REFUSAL (>50/4") IN ABC AT 3.0 INCHES. AUGER TO 8.5 INCHES AND RESUME IN SUBGRADE.
ABC = Aggregate Base Course

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR		PROJECT NUMBER	TIP	ROUTE
		49218.26	N/A	All American Freeway
		COUNTY	GEOLOGIST	TECHNICIANS
		Cumberland	Smith, B.	White, J. & Murray, T.
TEST LOCATION DESCRIPTION		DATE RUN	CORRELATED CBR VALUES	
AAF 95+00 NB-CTL		4/21/2025		
DATUM	CUT / FILL	NORTHING	EASTING	
ABC	FILL	504,288	2,001,006	

CUMULATIVE PENETRATION IN CENTIMETERS

0.9	14.1	28.4	41.9	59.7	78.1
1.5	14.4	28.7	42.2	60.1	78.4
2.0	14.6	29.0	42.4	60.3	78.9
2.4	14.8	29.2	42.5	60.7	79.3
2.8	15.0	29.4	42.8	61.2	79.9
3.2	15.3	29.7	43.0	61.5	80.1
3.5	15.5	30.0	43.3	62.1	80.4
3.8	15.7	30.2	43.5	62.4	80.9
4.2	16.0	30.5	43.7	62.8	81.2
4.6	16.3	30.8	44.0	63.1	81.5
4.8	16.5	31.0	44.1	63.5	81.8
5.1	16.7	31.2	44.7	64.0	82.0
5.4	16.9	31.5	44.8	64.3	82.3
5.7	17.2	31.8	45.1	64.7	82.6
6.0	17.4	32.0	45.3	65.0	82.9
6.3	17.6	32.4	45.8	65.2	83.2
6.6	17.8	32.6	45.9	65.8	83.5
6.9	18.0	32.9	46.2	66.2	83.7
7.1	18.3	33.1	46.4	66.5	84.0
7.3	18.5	33.4	46.5	66.8	84.4
7.6	18.8	33.6	47.3	67.2	
7.9	19.0	34.0	47.5	67.6	
8.1	19.2	34.2	47.8	68.0	
8.3	19.5	34.4	48.3	68.3	
8.5	19.7	34.6	48.7	68.7	
8.7	19.9	34.9	49.0	69.1	
8.9	20.2	35.2	49.4	69.5	
9.1	20.3	35.5	49.8	69.8	
9.4	20.6	35.7	50.1	70.0	
9.6	20.9	35.9	50.4	70.3	
9.8	21.2	36.1	50.7	71.1	
10.0	21.5	36.4	51.1	71.2	
10.2	21.7	36.6	51.5	71.7	
10.4	22.1	37.0	51.9	72.0	
10.6	22.3	37.3	52.1	72.3	
10.8	22.7	37.5	52.4	72.7	
11.1	22.9	37.6	52.8	72.9	
11.2	23.3	37.9	53.2	73.3	
11.4	23.5	38.1	53.5	73.6	
11.6	23.9	38.3	53.9	74.0	
11.8	24.2	38.6	54.3	74.2	
12.0	24.5	38.8	54.6	74.7	
12.1	24.7	39.0	55.0	74.9	
12.4	25.0	39.3	55.3	75.2	
12.5	25.3	39.6	55.7	75.5	
12.6	25.6	39.9	56.1	75.8	
12.8	26.0	40.2	56.5	76.0	
13.0	26.2	40.4	56.9	76.5	
13.2	26.7	40.7	57.3	76.7	
13.4	27.0	41.0	57.7	77.0	
13.6	27.4	41.3	58.2	77.2	
13.8	27.6	41.5	58.8	77.4	
14.0	28.1	41.6	59.0	77.9	



Notes:
DCP REFUSAL (>50/4") IN SUBGRADE AT 33.1 INCHES
ABC = Aggregate Base Course

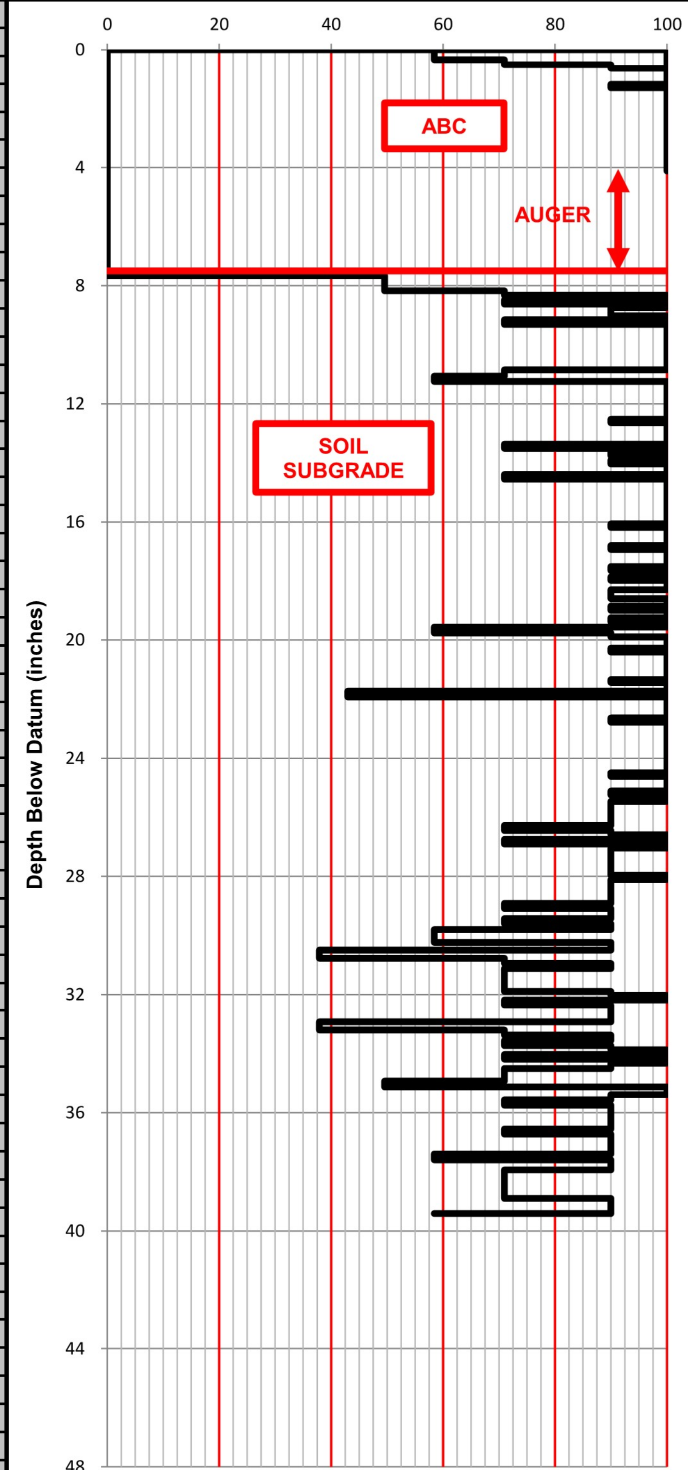
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 95+00 NB-LTL			4/21/2025
DATUM	CUT / FILL	NORTHING	EASTING
ABC	FILL	504,272	2,001,006

CUMULATIVE PENETRATION IN CENTIMETERS

0.6	9.3	25.5	41.2	57.7	76.6
1.1	9.3	25.8	41.5	58.0	77.0
1.5	9.4	26.1	41.7	58.2	77.9
1.7	9.4	26.4	42.0	58.5	78.4
1.9	9.4	26.6	42.2	58.6	78.8
2.2	9.5	26.8	42.5	58.9	79.3
2.4	9.5	27.0	42.9	59.1	79.8
2.6	9.6	27.3	43.2	59.4	80.3
2.8	9.6	27.8	43.5	59.6	80.8
3.2	9.6	28.4	43.8	59.9	81.2
3.4	9.7	28.7	44.1	60.2	81.5
3.5	9.7	29.0	44.3	60.5	82.0
3.6	9.7	29.2	44.7	60.8	82.4
3.9	9.8	29.5	45.0	61.1	82.8
4.1	9.8	29.8	45.2	61.4	83.2
4.3	9.8	30.0	45.6	61.7	84.1
4.5	9.9	30.2	45.8	62.0	84.6
4.7	9.9	30.5	46.0	62.4	85.0
4.9	9.9	30.8	46.3	62.7	85.5
5.0	10.0	31.1	46.7	63.0	85.9
5.2	10.0	31.4	47.1	63.3	86.2
5.3	10.1	31.6	47.4	63.6	86.7
5.5	10.1	32.0	47.7	64.0	87.0
5.7	10.1	32.2	48.1	64.3	87.4
5.8	10.2	32.4	48.4	64.5	87.9
5.9	10.2	32.6	48.7	64.9	88.4
6.0	10.2	32.9	49.1	65.3	89.1
6.1	10.3	33.2	49.4	65.7	89.4
6.3	10.3	33.4	50.0	66.1	89.7
6.4	10.3	33.7	50.4	66.5	90.1
6.5	10.4	34.2	50.7	67.0	90.6
6.7	10.4	34.4	51.0	67.4	91.0
6.8	10.4	34.8	51.3	67.7	91.4
6.9	10.5	35.1	51.7	68.2	91.8
7.1	REF	35.5	52.0	68.5	92.2
7.2	19.1	35.8	52.3	68.9	92.6
7.3	19.8	36.1	52.6	69.3	93.1
7.5	20.5	36.3	52.9	69.7	93.5
7.7	21.0	36.8	53.2	70.1	93.9
7.8	21.3	37.1	53.4	70.5	94.3
8.0	21.8	37.4	53.7	70.9	94.7
8.1	22.0	37.7	54.0	71.2	95.3
8.2	22.4	38.0	54.4	71.6	95.7
8.4	22.8	38.3	54.5	72.0	96.1
8.5	23.0	38.6	54.8	72.4	96.6
8.7	23.5	38.9	55.6	72.8	97.1
8.9	23.8	39.1	55.8	73.2	97.6
9.1	24.1	39.4	56.1	73.7	98.1
9.1	24.4	39.7	56.4	74.1	98.6
9.2	24.7	40.0	56.5	74.5	99.0
9.2	24.9	40.3	56.8	75.0	99.4
9.2	25.2	40.6	57.1	75.4	99.8
9.3	25.4	41.0	57.3	76.0	100.4

CORRELATED CBR VALUES



Notes:
DCP REFUSAL (>50/4") IN ABC AT 4.1 INCHES. AUGER TO 7.5 INCHES AND RESUME IN SUBGRADE.
ABC = Aggregate Base Course

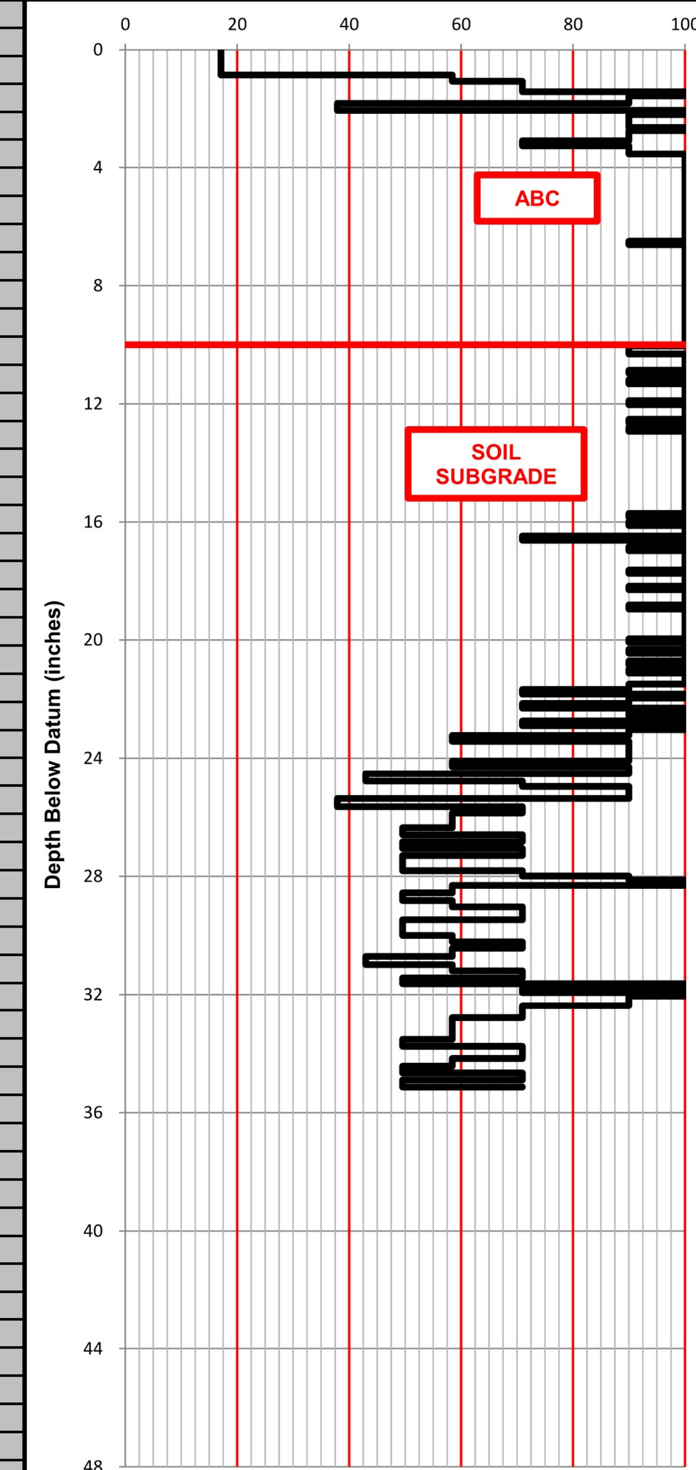
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	All American Freeway
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 95+00 SB-OSL			4/22/2025
DATUM	CUT / FILL	NORTHING	EASTING
ABC	FILL	504,202	2,001,005

CUMULATIVE PENETRATION IN CENTIMETERS

1.9	18.4	32.3	46.9	67.8	
2.5	18.7	32.7	47.2	68.5	
3.0	18.9	33.0	47.4	69.0	
3.5	19.2	33.3	47.6	69.7	
3.8	19.4	33.5	48.0	70.4	
4.2	19.7	33.8	48.3	70.9	
5.1	19.9	34.1	48.5	71.3	
5.4	20.1	34.4	48.8	71.6	
5.8	20.3	34.7	49.1	72.2	
6.2	20.6	34.9	49.3	72.9	
6.6	20.9	35.2	49.6	73.5	
6.8	21.2	35.4	49.9	74.0	
7.2	21.5	35.7	50.2	74.5	
7.6	21.8	35.9	50.5	75.2	
8.1	22.1	36.2	50.9	75.9	
8.5	22.2	36.4	51.1	76.5	
8.9	22.5	36.7	51.4	77.0	
9.1	22.7	37.0	51.8	77.6	
9.3	22.9	37.3	52.1	78.4	
9.6	23.1	37.5	52.4	79.0	
9.9	23.4	37.7	52.8	79.5	
10.1	23.5	37.9	53.1	80.2	
10.4	23.8	38.2	53.5	80.5	
10.7	24.1	38.5	53.8	81.0	
10.9	24.4	38.8	54.1	81.2	
11.1	24.7	39.0	54.4	81.6	
11.3	25.0	39.3	54.8	82.0	
11.5	25.3	39.5	55.3	82.5	
11.7	25.7	39.7	55.6	83.0	
12.0	26.1	40.1	56.0	83.6	
12.2	26.3	40.4	56.5	84.2	
12.5	26.6	40.8	56.8	84.8	
12.8	26.9	41.1	57.2	85.5	
13.1	27.2	41.4	57.5	86.0	
13.4	27.4	41.6	58.0	86.5	
13.6	27.8	42.1	58.3	87.1	
13.9	27.9	42.4	58.7	87.8	
14.1	28.2	42.6	59.3	88.3	
14.4	28.6	43.0	59.7	89.0	
14.7	28.9	43.3	60.1	89.5	
15.0	29.2	43.6	60.5		
15.3	29.3	43.9	60.9		
15.6	29.4	44.2	61.5		
15.8	29.5	44.4	61.9		
16.0	29.7	44.6	62.7		
16.3	30.0	45.0	63.2		
16.7	30.4	45.2	63.6		
16.9	30.7	45.5	64.0		
17.1	30.8	45.8	64.9		
17.4	31.1	45.9	65.4		
17.7	31.4	46.0	66.0		
18.0	31.6	46.4	66.6		
18.2	32.0	46.6	67.3		

CORRELATED CBR VALUES



Notes:
DCP REFUSAL (>50/4") IN SUBGRADE AT 35.1 INCHES
ABC = Aggregate Base Course

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

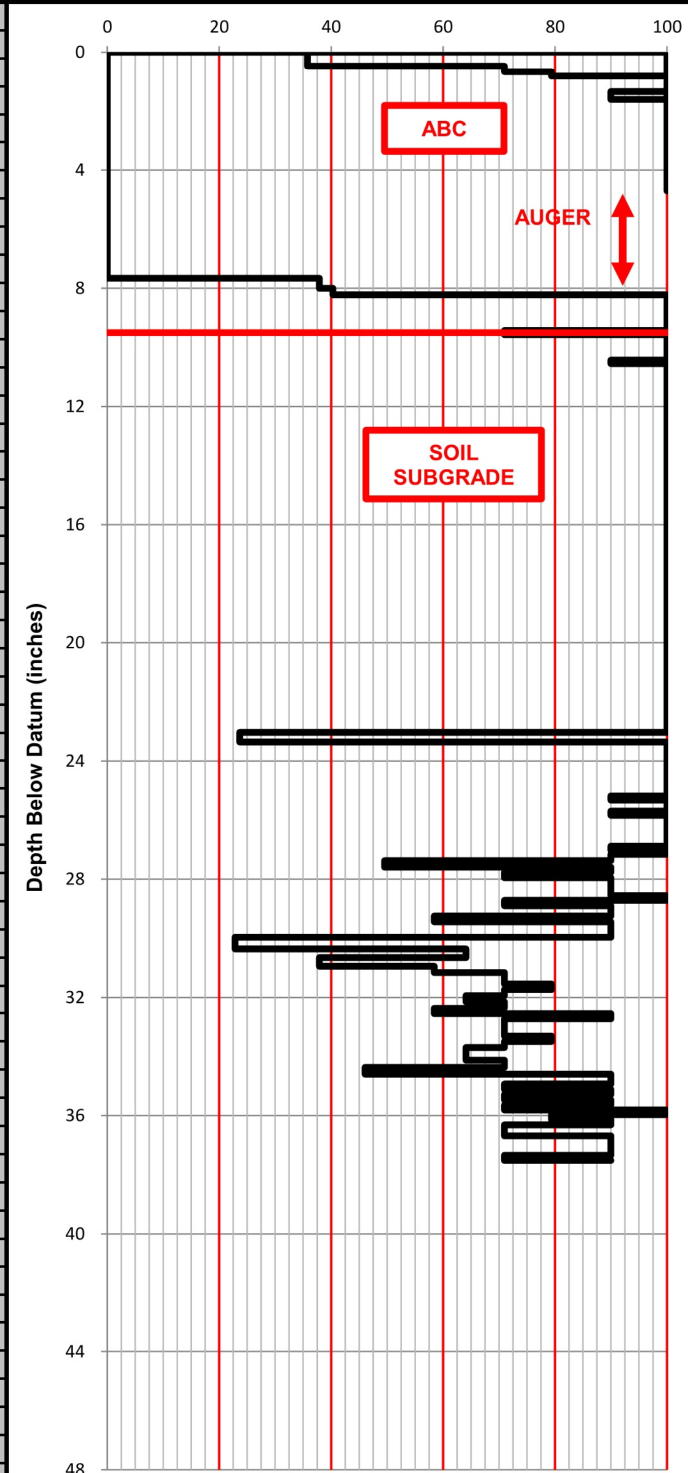
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	All American Freeway
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF 95+00 SB-ISL			4/23/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
ABC	FILL	504,221	2,001,005

CUMULATIVE PENETRATION IN CENTIMETERS

1.0	10.9	29.2	39.9	53.0	69.9
1.5	11.0	29.5	40.1	53.3	70.3
1.9	11.1	29.8	40.4	53.5	70.8
2.2	11.2	29.9	40.6	53.7	71.2
2.5	11.3	30.1	40.9	54.0	71.6
2.8	11.4	30.2	41.1	54.2	72.0
3.0	11.5	30.4	41.3	54.5	72.4
3.2	11.6	30.6	41.6	54.7	72.7
3.6	11.7	30.8	41.8	54.9	73.2
4.0	11.8	30.9	42.1	55.2	73.6
4.2	11.9	31.1	42.3	55.4	74.0
4.4	12.0	31.3	42.5	55.7	74.6
4.5	REF	31.4	42.8	55.9	75.0
4.7	19.0	31.6	43.0	56.2	75.4
4.8	19.9	31.8	43.3	56.4	76.9
5.0	20.8	32.0	43.5	56.7	77.4
5.2	21.0	32.2	43.8	56.9	78.3
5.3	21.3	32.4	44.0	57.2	78.9
5.5	21.6	32.6	44.3	57.6	79.4
5.7	21.9	32.7	44.5	57.8	79.9
5.9	22.2	32.9	44.8	59.2	80.4
6.1	22.5	33.1	45.0	59.5	80.9
6.2	22.7	33.3	45.3	59.7	81.4
6.4	23.0	33.5	45.5	60.0	81.9
6.6	23.2	33.7	45.8	60.3	82.5
6.8	23.4	33.9	46.0	60.5	82.9
7.0	23.7	34.1	46.2	60.8	83.4
7.1	24.2	34.3	46.5	61.1	83.9
7.3	24.4	34.6	46.7	61.4	84.4
7.5	24.7	34.8	47.0	61.7	84.9
7.7	24.9	35.0	47.2	62.0	85.4
7.9	25.3	35.2	47.4	62.3	85.9
8.0	25.4	35.4	47.7	62.6	86.5
8.2	25.7	35.6	47.9	62.9	87.0
8.4	25.8	35.8	48.2	63.2	87.7
8.6	26.0	36.0	48.4	63.5	88.1
8.7	26.2	36.2	48.7	63.8	88.5
8.9	26.3	36.4	48.9	64.2	89.0
9.0	26.7	36.6	49.2	64.5	89.4
9.2	26.9	36.9	49.4	64.8	89.9
9.4	27.1	37.1	49.7	65.1	90.3
9.5	27.2	37.3	50.0	65.5	90.8
9.7	27.5	37.5	50.2	65.8	91.2
9.8	27.7	37.7	50.5	66.2	91.6
10.0	27.8	37.9	50.7	66.5	92.0
10.1	27.9	38.1	51.0	66.8	92.5
10.2	28.1	38.4	51.3	67.1	93.0
10.3	28.2	38.6	51.5	67.4	93.4
10.4	28.3	38.8	51.8	67.8	93.8
10.5	28.5	39.0	52.0	68.1	94.2
10.6	28.6	39.2	52.3	68.5	94.6
10.7	28.9	39.5	52.5	68.8	95.1
10.8	29.1	39.7	52.8	69.2	95.5

CORRELATED CBR VALUES



Notes:
DCP REFUSAL (>50/4") IN ABC AT 4.7 INCHES. AUGER TO 7.5 INCHES AND RESUME.
ABC = Aggregate Base Course

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

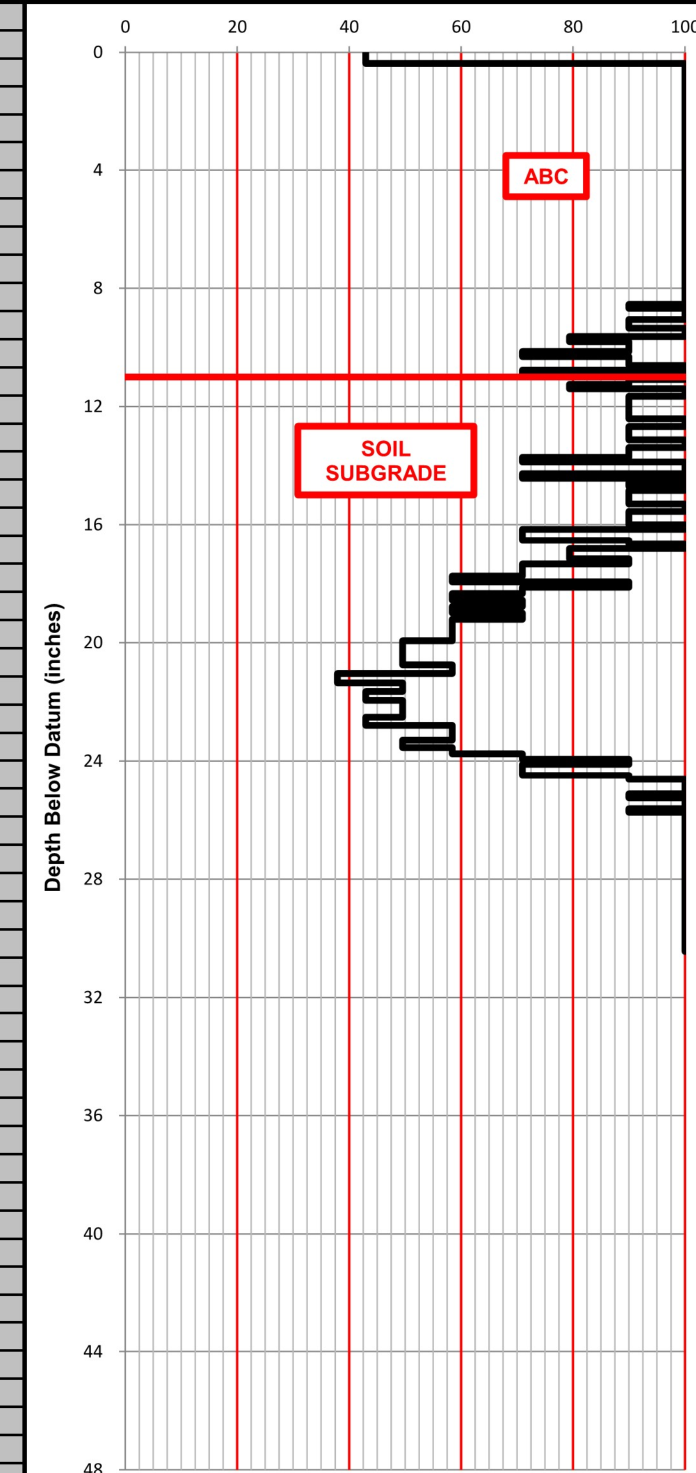
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	AAF Loop to Gruber Rd
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF LOOP-OSL			4/22/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
ABC	GRADE	500,955	2,006,202

CUMULATIVE PENETRATION IN CENTIMETERS

0.8	9.0	19.6	38.3	64.9	
1.1	9.1	19.8	38.7	65.3	
1.4	9.3	20.0	39.0	65.5	
1.7	9.5	20.3	39.3	65.8	
2.0	9.6	20.5	39.7	66.1	
2.2	9.8	20.6	40.1	66.3	
2.5	10.0	20.9	40.5	66.6	
2.7	10.1	21.2	40.8	66.8	
2.9	10.3	21.5	41.3	67.1	
3.0	10.5	21.9	41.8	67.4	
3.2	10.7	22.2	42.2	67.7	
3.4	10.8	22.5	42.5	67.9	
3.5	11.0	22.8	43.0	68.2	
3.6	11.2	23.2	43.4	68.4	
3.8	11.3	23.6	43.8	68.7	
4.0	11.5	23.9	44.3	68.9	
4.1	11.7	24.3	44.8	69.2	
4.3	11.9	24.7	45.4	69.4	
4.4	12.1	25.1	45.8	69.6	
4.5	12.2	25.5	46.3	69.8	
4.6	12.4	26.0	46.9	70.1	
4.7	12.6	26.4	47.4	70.3	
4.8	12.8	26.8	48.0	70.5	
4.9	13.0	27.1	48.5	70.7	
5.0	13.2	27.6	49.1	70.9	
5.1	13.4	28.0	49.7	71.1	
5.2	13.6	28.4	50.3	71.3	
5.3	13.8	28.8	51.0	71.5	
5.4	14.0	29.1	51.7	71.7	
5.5	14.3	29.4	52.4	71.9	
5.7	14.5	29.8	53.0	72.2	
5.8	14.7	30.2	53.9	72.4	
5.9	15.0	30.6	54.6	72.6	
6.1	15.2	31.0	55.4	72.8	
6.2	15.4	31.4	56.1	73.0	
6.3	15.6	31.7	56.8	73.2	
6.4	15.9	32.0	57.6	73.5	
6.6	16.1	32.4	58.2	73.8	
6.7	16.3	32.8	58.8	74.1	
6.8	16.5	33.2	59.5	74.3	
7.0	16.7	33.5	60.1	74.6	
7.1	16.9	33.8	60.6	74.9	
7.3	17.2	34.2	61.0	75.2	
7.4	17.4	34.6	61.5	75.5	
7.5	17.6	35.1	62.0	75.8	
7.7	17.8	35.4	62.4	76.1	
7.8	18.0	35.7	62.7	76.3	
8.0	18.2	36.0	63.0	76.6	
8.1	18.4	36.5	63.3	76.9	
8.3	18.7	36.8	63.6	77.2	
8.4	18.9	37.2	64.0	77.5	
8.6	19.1	37.5	64.3		
8.8	19.4	37.9	64.6		

CORRELATED CBR VALUES



Notes:
DCP REFUSAL (>50/4") IN SUBGRADE AT 30.4 INCHES
ABC = Aggregate Base Course

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

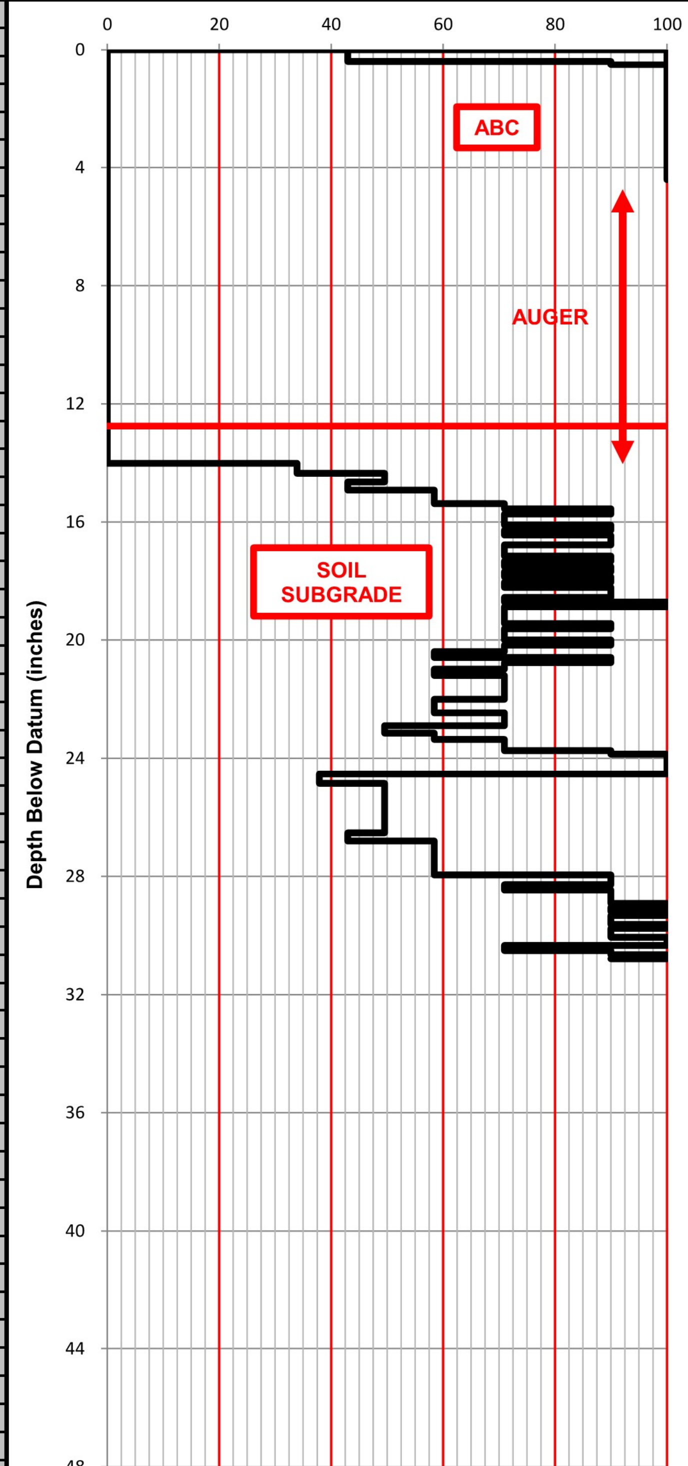
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	AAF Loop to Gruber Rd
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF LOOP-ISL			4/22/2025
DATUM	CUT / FILL	NORTHING	EASTING
ABC	GRADE	500,959	2,006,213

CUMULATIVE PENETRATION IN CENTIMETERS

0.8	10.7	59.6
1.2	10.9	60.1
1.4	11.1	60.5
1.6	11.3	60.7
1.8	REF	61.0
2.0	35.1	61.3
2.2	36.1	61.6
2.4	36.8	61.9
2.5	37.6	62.8
2.7	38.2	63.5
2.8	38.8	64.2
3.0	39.3	64.9
3.2	39.7	65.6
3.3	40.2	66.3
3.5	40.7	67.0
3.6	41.1	67.8
3.8	41.6	68.4
4.0	42.0	69.0
4.1	42.4	69.6
4.3	42.9	70.2
4.4	43.4	70.8
4.6	43.8	71.2
4.8	44.3	71.6
4.9	44.7	72.1
5.1	45.2	72.5
5.2	45.6	72.9
5.4	46.1	73.3
5.6	46.5	73.6
5.8	46.9	74.0
6.0	47.4	74.3
6.2	47.7	74.7
6.4	48.2	75.1
6.5	48.7	75.4
6.7	49.2	75.8
6.9	49.6	76.2
7.1	50.1	76.5
7.3	50.6	76.8
7.5	51.0	77.3
7.7	51.5	77.7
7.9	52.1	78.0
8.1	52.5	78.4
8.3	53.0	
8.5	53.6	
8.7	54.1	
8.9	54.6	
9.1	55.1	
9.3	55.6	
9.5	56.2	
9.7	56.8	
9.9	57.3	
10.1	57.8	
10.3	58.5	
10.5	59.1	

CORRELATED CBR VALUES



Notes:
DCP REFUSAL (>50/4") IN ABC AT 4.4 INCHES. AUGER TO 13.8 INCHES AND RESUME.
ABC = Aggregate Base Course

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

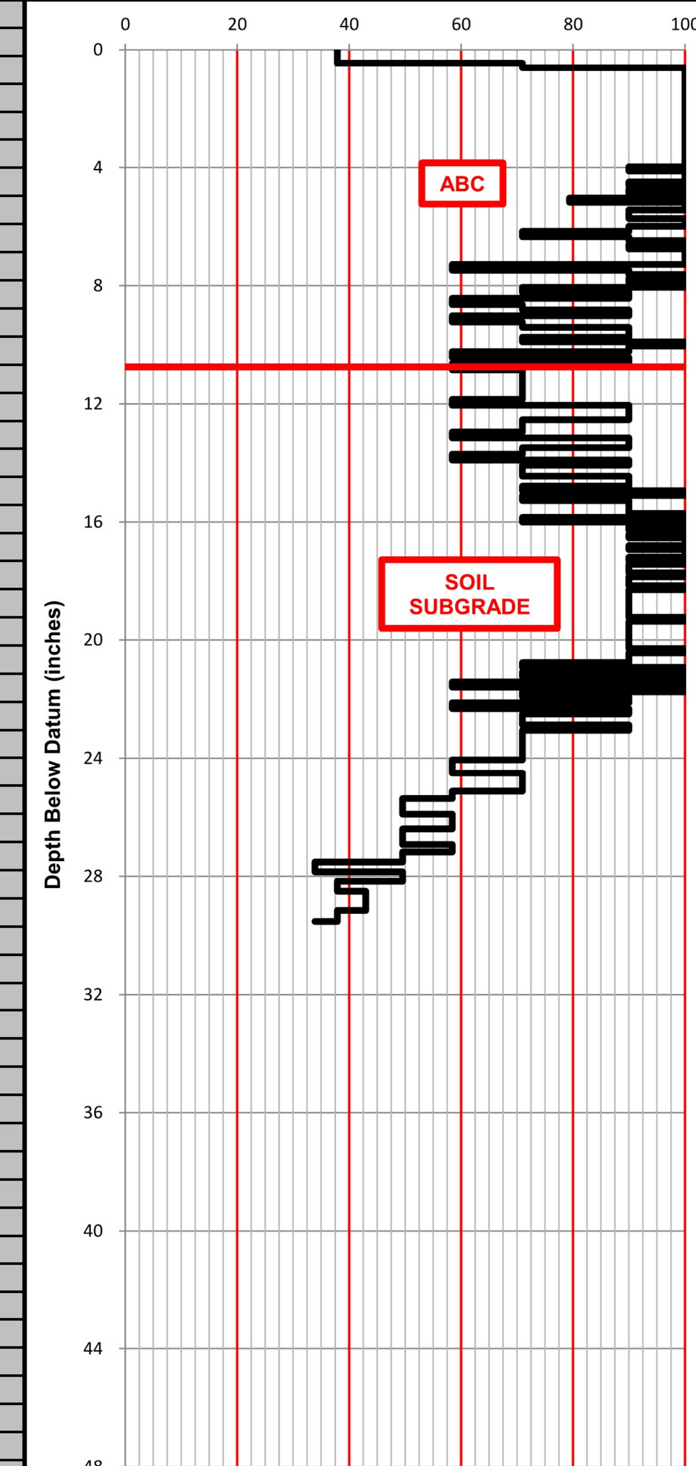
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	AAF Loop to Gruber Rd
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF LOOP-LTL			4/22/2025
DATUM	CUT / FILL	NORTHING	EASTING
ABC	GRADE	500,963	2,006,227

CUMULATIVE PENETRATION IN CENTIMETERS

0.9	14.4	37.8	58.3
1.4	14.7	38.1	58.8
1.7	15.0	38.6	59.3
2.0	15.4	39.0	59.8
2.3	15.9	39.4	60.3
2.6	16.3	39.8	60.8
2.9	16.6	40.0	61.4
3.1	17.0	40.5	62.0
3.3	17.3	40.8	62.5
3.5	17.6	41.2	63.0
3.7	17.9	41.5	63.5
4.0	18.2	41.9	64.1
4.2	18.8	42.2	64.8
4.4	19.2	42.5	65.5
4.6	19.5	42.9	66.1
4.8	19.9	43.2	66.7
5.0	20.2	43.5	67.4
5.2	20.7	43.9	68.1
5.3	21.1	44.1	68.7
5.5	21.7	44.5	69.4
5.7	22.2	44.9	70.4
5.8	22.6	45.2	71.1
6.0	23.2	45.6	72.0
6.3	23.7	46.0	72.8
6.4	24.1	46.3	73.6
6.6	24.5	46.7	74.5
6.8	25.0	47.1	75.5
7.0	25.3	47.5	
7.2	25.7	47.9	
7.4	26.3	48.3	
7.5	26.7	48.7	
7.8	27.3	49.0	
8.0	27.8	49.4	
8.2	28.3	49.8	
8.4	28.8	50.2	
8.7	29.3	50.6	
8.9	29.8	51.0	
9.2	30.4	51.4	
9.4	30.8	51.7	
9.7	31.2	52.1	
9.9	31.6	52.5	
10.3	32.1	53.0	
10.6	32.6	53.3	
10.9	33.2	53.8	
11.2	33.6	54.1	
11.6	34.0	54.7	
11.8	34.5	55.0	
12.2	35.1	55.5	
12.6	35.5	55.9	
13.0	36.0	56.5	
13.3	36.5	56.9	
13.6	36.9	57.4	
14.0	37.3	57.9	

CORRELATED CBR VALUES



Notes:
ABC = Aggregate Base Course

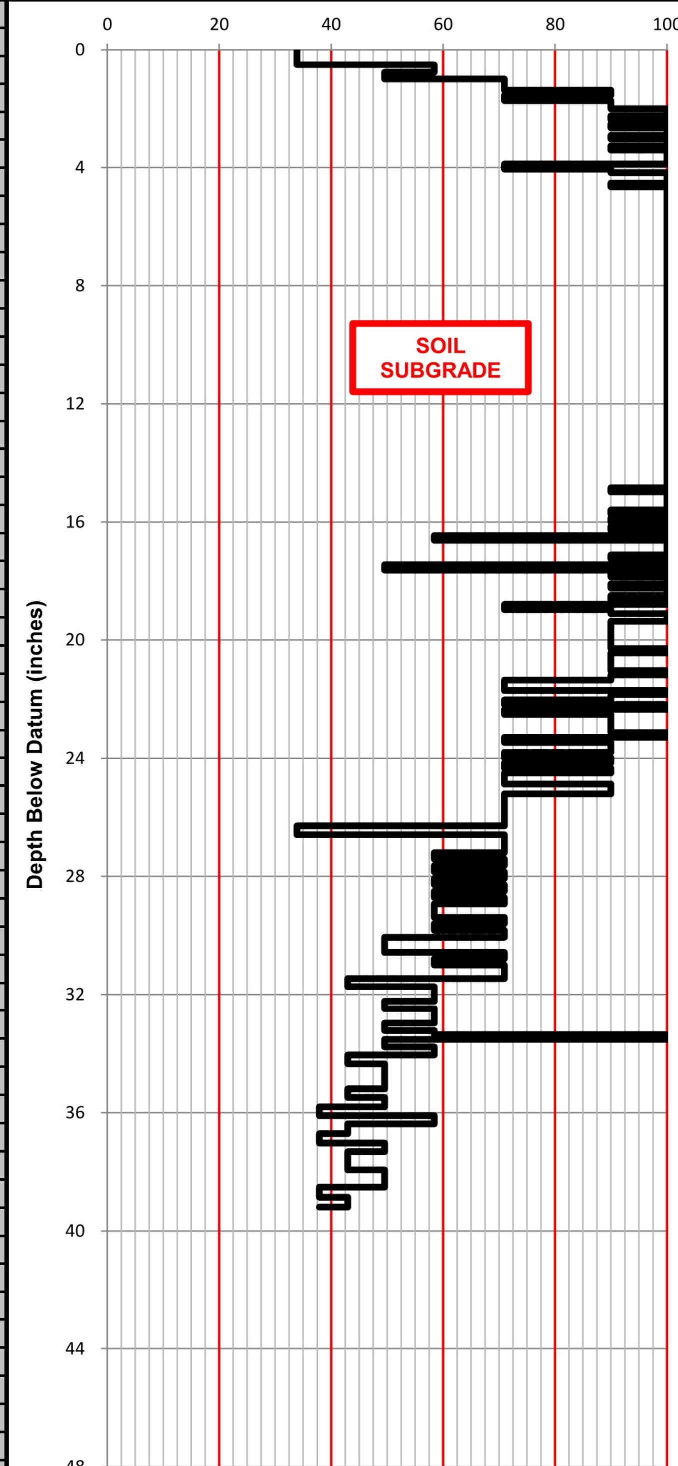
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	AAF Ramp to Gruber Rd
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF RAMP-OSL			4/23/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	GRADE	500,778	2,005,323

CUMULATIVE PENETRATION IN CENTIMETERS

1.0	17.6	31.8	49.0	73.2	
1.6	17.8	32.1	49.4	73.8	
2.3	18.1	32.3	49.8	74.4	
2.8	18.4	32.6	50.2	74.9	
3.3	18.6	32.9	50.6	75.5	
3.7	18.9	33.1	51.0	76.0	
4.2	19.1	33.4	51.4	76.7	
4.6	19.4	33.7	51.7	77.4	
5.0	19.7	34.0	52.1	77.9	
5.2	19.9	34.3	52.5	78.5	
5.5	20.2	34.6	52.9	79.0	
5.9	20.5	34.9	53.3	79.5	
6.2	20.8	35.2	53.6	80.3	
6.6	21.0	35.5	54.0	80.9	
6.9	21.3	35.8	54.5	81.5	
7.2	21.6	36.1	55.0	82.2	
7.6	21.8	36.4	55.3	82.8	
7.8	22.1	36.7	55.7	83.4	
8.1	22.4	37.0	56.2	84.1	
8.5	22.7	37.3	56.5	84.7	
8.8	22.9	37.5	57.0	84.8	
9.0	23.2	37.9	57.4	85.5	
9.3	23.5	38.2	57.8	86.1	
9.6	23.8	38.5	58.2	86.9	
10.1	24.1	38.8	58.6	87.6	
10.5	24.3	39.1	58.9	88.3	
10.7	24.6	39.4	59.4	89.0	
10.9	24.9	39.8	59.8	89.8	
11.2	25.2	40.1	60.2	90.5	
11.3	25.4	40.5	60.7	91.4	
11.7	25.7	40.8	61.1	92.0	
12.0	25.9	41.2	61.6	92.8	
12.2	26.2	41.5	62.0	93.7	
12.5	26.5	42.1	62.5	94.4	
12.7	26.7	42.4	63.0	95.2	
13.0	27.0	42.7	63.4	96.0	
13.2	27.2	43.0	63.8	96.7	
13.5	27.5	43.3	64.3	97.4	
13.7	27.8	43.7	64.8	98.3	
14.0	28.0	44.0	65.3	99.1	
14.2	28.3	44.7	65.8	100.0	
14.5	28.5	44.9	66.3		
14.7	28.8	45.3	67.3		
15.0	29.1	45.5	67.8		
15.2	29.3	45.8	68.3		
15.5	29.6	46.2	68.8		
15.8	29.8	46.5	69.4		
16.0	30.1	46.8	69.9		
16.3	30.4	47.2	70.5		
16.5	30.7	47.5	71.0		
16.8	30.9	48.0	71.6		
17.1	31.2	48.4	72.1		
17.3	31.5	48.7	72.7		

CORRELATED CBR VALUES



Notes:
SG = Subgrade

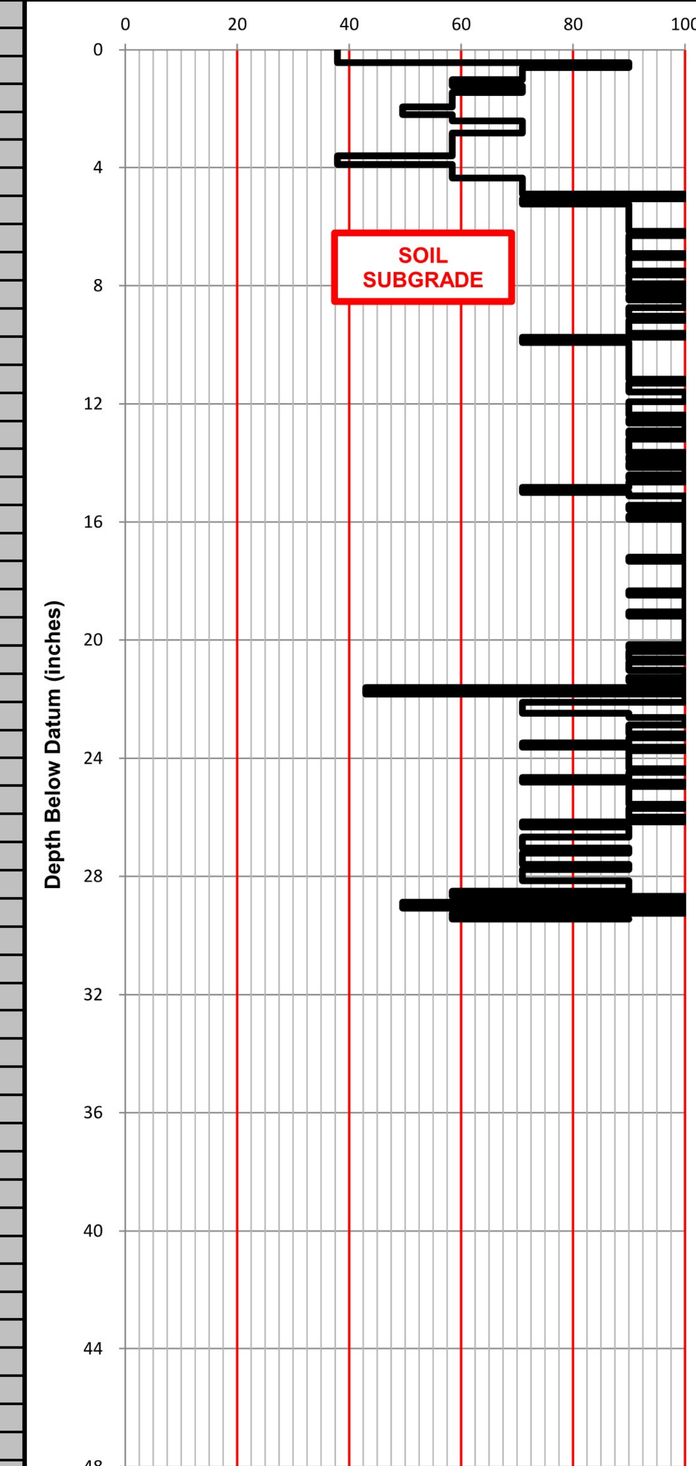
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	AAF Ramp to Gruber Rd
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
AAF RAMP-ISL			4/23/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	GRADE	500,779	2,005,346

CUMULATIVE PENETRATION IN CENTIMETERS

0.9	24.5	42.5	59.9		
1.3	25.0	42.8	60.1		
1.8	25.4	43.0	60.5		
2.3	25.8	43.2	60.9		
2.9	26.2	43.5	61.3		
3.4	26.6	43.9	61.7		
4.0	27.0	44.2	62.0		
4.6	27.4	44.5	62.4		
5.3	27.8	44.7	62.9		
5.9	28.2	45.0	63.2		
6.4	28.5	45.3	63.6		
6.9	28.9	45.6	64.0		
7.5	29.3	45.9	64.4		
8.1	29.6	46.2	64.8		
8.7	29.8	46.4	65.1		
9.6	30.1	46.8	65.5		
10.2	30.5	47.1	65.9		
10.8	30.9	47.4	66.2		
11.3	31.3	47.7	66.7		
11.8	31.6	47.9	67.1		
12.3	32.0	48.2	67.5		
12.6	32.3	48.6	68.0		
13.1	32.6	48.9	68.5		
13.5	33.0	49.2	68.9		
13.9	33.3	49.5	69.4		
14.3	33.7	49.8	69.9		
14.7	34.1	50.1	70.3		
15.1	34.5	50.4	70.8		
15.5	34.8	50.7	71.3		
15.8	35.2	51.0	71.7		
16.2	35.4	51.4	72.1		
16.6	35.8	51.6	72.7		
17.0	36.1	52.0	73.0		
17.4	36.4	52.4	73.7		
17.7	36.8	52.5	74.0		
18.1	37.0	52.9	74.6		
18.5	37.4	53.3	75.0		
18.9	37.9	53.5			
19.2	38.3	53.8			
19.6	38.5	54.2			
20.0	38.8	54.5			
20.3	39.0	55.3			
20.7	39.4	55.6			
21.0	39.7	55.9			
21.4	39.9	56.4			
21.7	40.3	56.9			
22.0	40.5	57.3			
22.4	40.8	57.6			
22.8	41.1	57.9			
23.1	41.4	58.3			
23.5	41.7	58.7			
23.9	42.0	59.0			
24.3	42.2	59.4			

CORRELATED CBR VALUES



Notes:
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

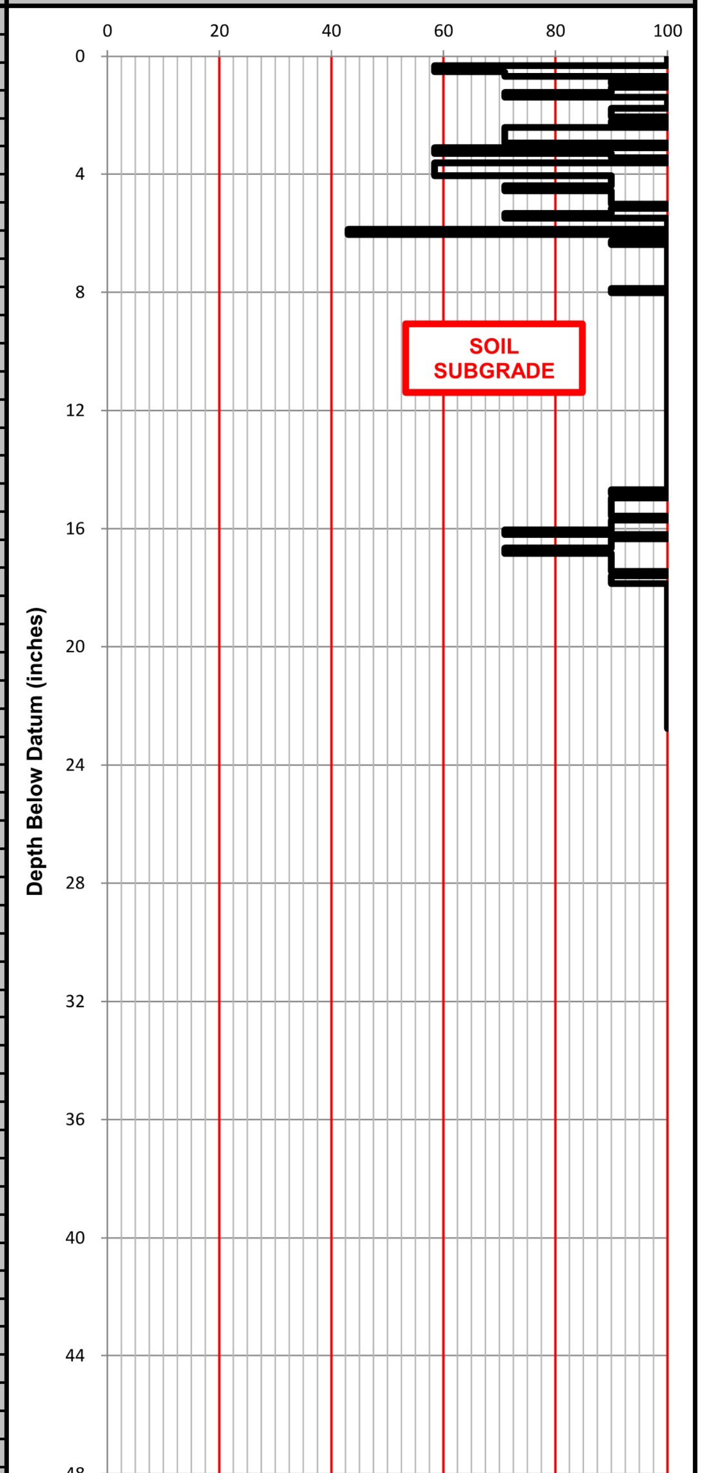
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	Gruber Rd Ramp to All American Fwy
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
GRUBER RD RAMP			4/24/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
SG	GRADE	500,973	2,006,259

CUMULATIVE PENETRATION IN CENTIMETERS

0.2	19.3	31.4	48.5	56.4	
0.5	19.6	31.7	48.7	56.6	
1.1	19.8	32.0	49.0	56.7	
1.6	20.2	32.3	49.2	56.9	
1.9	20.5	32.5	49.4	57.0	
2.3	20.7	32.8	49.5	57.2	
2.5	21.0	33.1	49.7	57.3	
2.9	21.2	33.3	49.8	57.5	
3.4	21.5	33.6	50.0	57.6	
3.7	21.8	34.0	50.2	57.8	
4.0	22.0	34.3	50.4	57.9	
4.3	22.3	34.7	50.5		
4.7	22.5	35.0	50.7		
5.1	22.7	35.4	50.9		
5.4	23.0	35.7	51.1		
5.8	23.2	36.1	51.2		
5.9	23.4	36.4	51.4		
6.4	23.6	36.8	51.5		
6.9	23.8	37.1	51.7		
7.4	24.1	37.5	51.8		
7.6	24.3	37.8	52.0		
8.2	24.5	38.2	52.1		
8.6	24.7	38.6	52.3		
8.9	24.9	39.0	52.4		
9.5	25.1	39.4	52.5		
10.1	25.3	39.7	52.7		
10.5	25.5	40.1	52.8		
10.9	25.7	40.5	53.0		
11.4	25.9	41.0	53.1		
11.8	26.1	41.3	53.2		
12.2	26.3	41.7	53.4		
12.6	26.5	42.1	53.5		
12.9	26.7	42.6	53.7		
13.3	26.9	43.0	53.8		
13.8	27.1	43.4	53.9		
14.1	27.3	43.8	54.1		
14.4	27.5	44.2	54.2		
14.5	27.7	44.5	54.4		
15.3	27.9	44.9	54.5		
15.4	28.1	45.3	54.6		
15.7	28.3	45.5	54.8		
16.1	28.5	45.8	54.9		
16.3	28.7	46.1	55.1		
16.6	29.0	46.3	55.2		
16.9	29.2	46.6	55.3		
17.2	29.5	46.8	55.4		
17.5	29.7	47.0	55.6		
17.7	29.9	47.3	55.7		
18.0	30.2	47.5	55.8		
18.2	30.4	47.7	55.9		
18.5	30.7	47.9	56.0		
18.8	30.9	48.1	56.2		
19.1	31.2	48.4	56.3		

CORRELATED CBR VALUES



Notes:
DCP REFUSAL (>50/4") IN SUBGRADE AT 22.8 INCHES
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

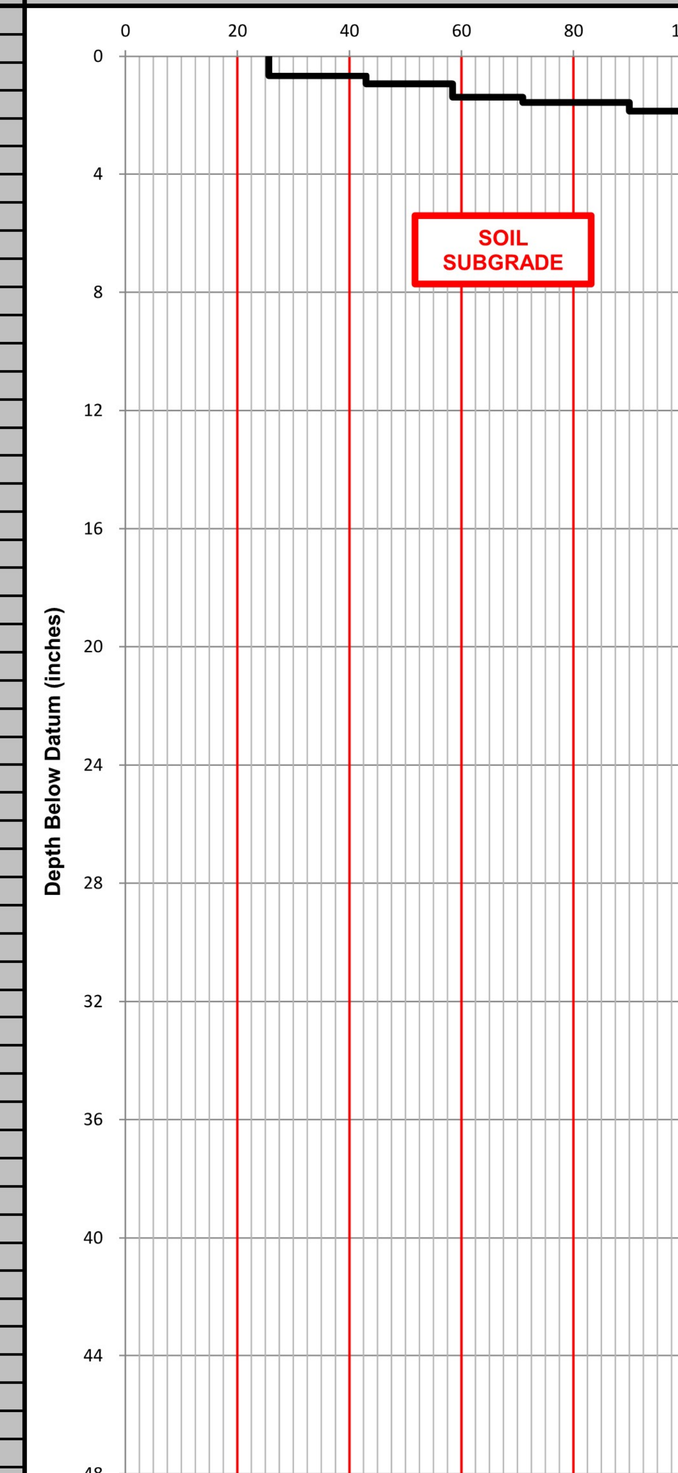
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	Gruber Road
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
GRUBER RD 16+00 RT-OSL			4/24/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
SG	GRADE	500,630	2,005,489

CUMULATIVE PENETRATION IN CENTIMETERS

1.3	14.4
2.1	14.6
2.7	14.7
3.3	14.9
3.8	15.0
4.2	15.2
4.6	15.4
4.9	15.6
5.2	15.7
5.5	15.9
5.8	16.0
6.1	16.2
6.3	16.4
6.6	16.5
6.8	16.7
7.1	16.9
7.3	17.1
7.4	17.3
7.7	17.4
7.9	17.6
8.1	17.8
8.3	18.0
8.4	18.2
8.6	18.4
8.8	18.6
9.0	18.8
9.2	19.0
9.4	19.2
9.6	19.4
9.8	19.6
10.0	19.8
10.2	20.0
10.5	20.2
10.7	20.4
10.9	20.6
11.1	20.8
11.3	21.0
11.5	21.2
11.6	21.4
11.9	21.6
12.0	21.8
12.2	22.1
12.3	22.3
12.5	22.5
12.7	22.7
12.9	23.0
13.1	23.2
13.3	23.4
13.4	23.6
13.6	23.8
13.8	24.1
14.0	24.3
14.2	24.5

CORRELATED CBR VALUES



Notes:
DCP REFUSAL (>50/4") IN SUBGRADE AT 9.6 INCHES
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

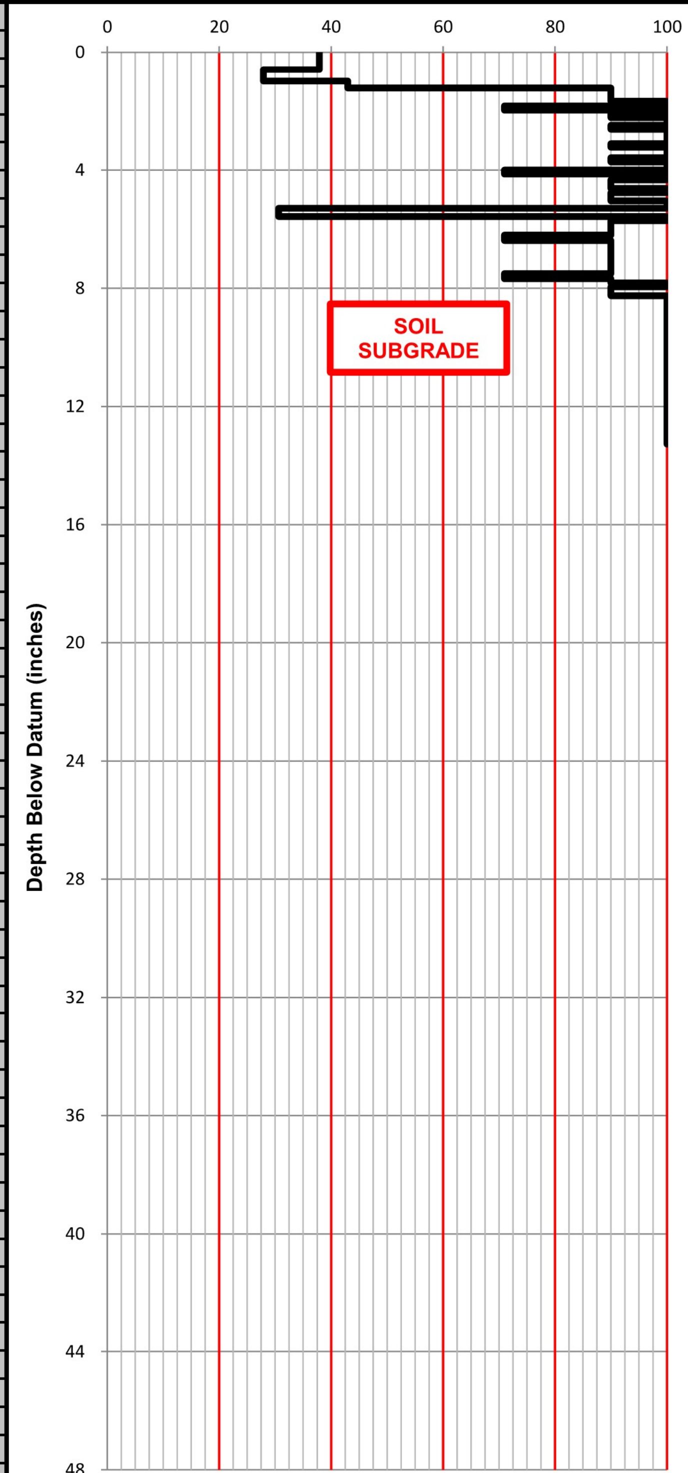
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	Gruber Road
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
GRUBER RD 16+00 RT-ISL			4/24/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
SG	GRADE	500,646	2,005,486

CUMULATIVE PENETRATION IN CENTIMETERS

0.9	21.4	31.9
2.1	21.7	32.1
2.9	22.0	32.3
3.3	22.2	32.4
3.7	22.5	32.6
4.1	22.8	32.8
4.4	23.0	33.0
4.9	23.2	33.1
5.1	23.5	33.3
5.5	23.7	33.5
5.8	23.9	33.6
6.1	24.1	33.8
6.5	24.3	
6.8	24.6	
7.1	24.8	
7.4	25.0	
7.7	25.2	
8.1	25.4	
8.3	25.6	
8.4	25.8	
8.6	26.0	
8.9	26.2	
9.3	26.4	
9.6	26.6	
9.9	26.8	
10.4	27.0	
10.6	27.2	
10.8	27.4	
11.2	27.6	
11.6	27.8	
11.9	27.9	
12.3	28.1	
12.7	28.3	
12.9	28.5	
14.0	28.7	
14.3	28.9	
14.7	29.0	
15.1	29.2	
15.5	29.4	
16.0	29.6	
16.4	29.7	
16.8	29.9	
17.2	30.1	
17.6	30.2	
18.0	30.4	
18.4	30.6	
18.8	30.7	
19.3	30.9	
19.7	31.1	
20.0	31.3	
20.4	31.4	
20.8	31.6	
21.1	31.8	

CORRELATED CBR VALUES



Notes:
DCP REFUSAL (>50/4") IN SUBGRADE AT 13.3 INCHES
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

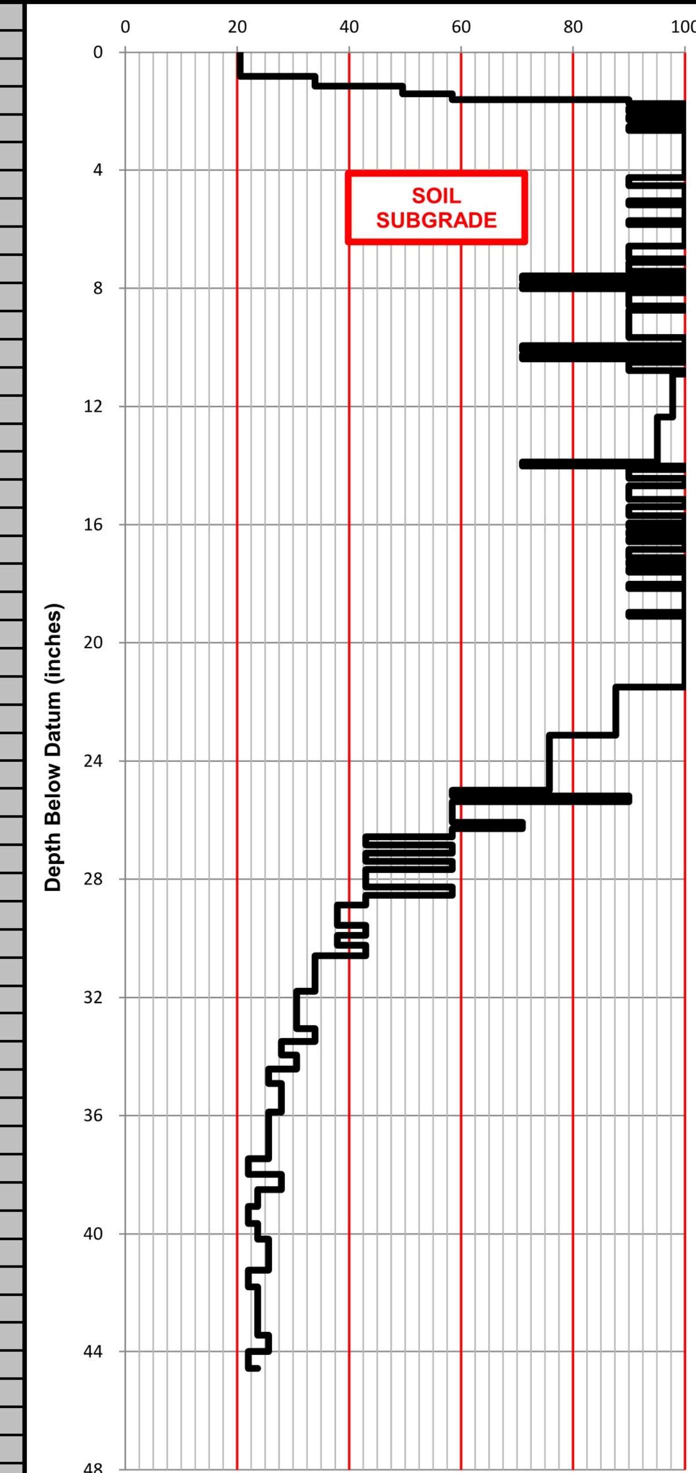
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	Gruber Road
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
GRUBER RD 16+00 CTL			4/24/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
SG	GRADE	500,658	2,005,483

CUMULATIVE PENETRATION IN CENTIMETERS

1.6	18.7	38.3	54.8	93.1
2.6	19.0	38.6	55.2	94.4
3.3	19.5	38.9	55.6	95.9
3.9	19.7	39.3	56.0	97.1
4.3	20.2	39.7	56.5	98.5
4.6	20.5	40.0	56.9	100.0
5.0	20.9	40.3	57.3	101.4
5.3	21.3	40.7	57.7	102.7
5.7	21.7	41.0	58.1	104.0
6.0	22.0	41.4	58.5	105.5
6.2	22.4	41.6	59.0	106.9
6.6	22.8	42.0	59.4	108.3
6.9	23.2	42.3	59.9	109.7
7.2	23.6	42.6	60.4	111.0
7.5	24.0	43.0	60.9	112.5
7.7	24.4	43.4	61.3	113.9
7.9	24.7	43.6	61.8	
8.2	25.0	44.0	62.3	
8.5	25.5	44.2	62.7	
8.7	25.8	44.6	63.2	
9.0	26.3	44.9	63.8	
9.1	26.5	45.2	64.2	
9.4	26.9	45.4	64.8	
9.6	27.3	45.6	65.4	
9.9	27.5	46.0	66.0	
10.1	27.9	46.3	66.5	
10.4	28.2	46.6	67.1	
10.6	28.6	46.9	67.9	
11.0	29.0	47.2	68.5	
11.4	29.4	47.5	69.3	
11.6	29.7	47.8	69.9	
11.9	30.1	48.0	70.7	
12.1	30.5	48.4	71.5	
12.4	30.8	48.7	72.1	
12.6	31.2	49.0	72.9	
13.0	31.6	49.3	73.8	
13.3	32.0	49.6	74.7	
13.5	32.3	49.9	75.5	
13.8	32.7	50.1	76.4	
14.1	33.1	50.4	77.2	
14.3	33.5	50.7	78.2	
14.7	33.9	51.0	79.2	
15.0	34.2	51.3	80.2	
15.3	34.6	51.6	81.3	
15.6	35.0	51.9	82.4	
15.9	35.5	52.2	83.5	
16.2	35.7	52.5	84.5	
16.5	36.1	52.9	85.7	
16.9	36.5	53.2	86.8	
17.3	36.8	53.5	88.1	
17.7	37.1	53.8	89.3	
17.9	37.5	54.1	90.5	
18.3	37.9	54.4	91.8	

CORRELATED CBR VALUES



Notes:
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

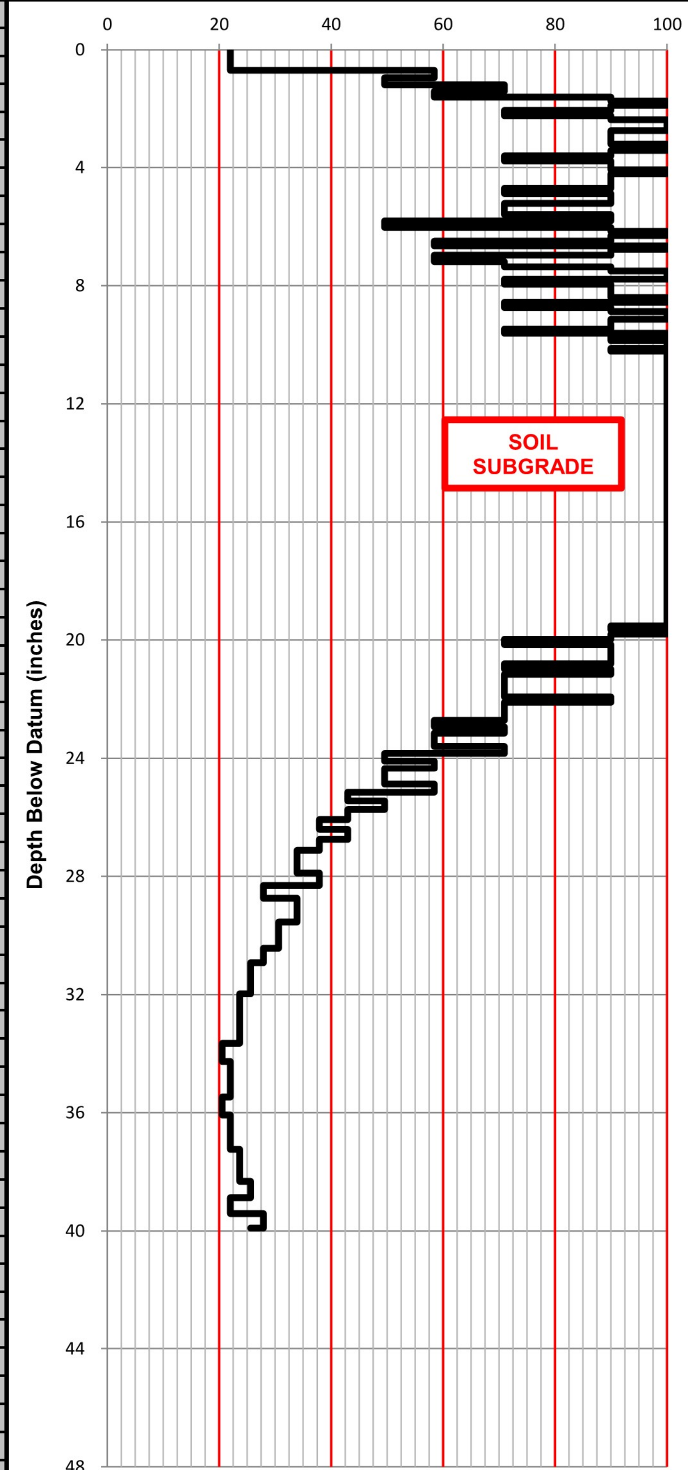
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	Gruber Road
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
GRUBER RD 16+00 LT-ISL			4/25/2025
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
SG	GRADE	500,670	2,005,481

CUMULATIVE PENETRATION IN CENTIMETERS

1.5	23.4	35.0	47.1	81.9	
2.1	23.8	35.2	47.4	83.3	
2.8	24.3	35.4	47.8	84.7	
3.3	24.5	35.5	48.1	86.3	
3.9	24.9	35.7	48.4	87.8	
4.3	25.2	35.9	48.7	89.3	
4.6	25.5	36.1	49.1	90.9	
5.0	25.9	36.3	49.4	92.4	
5.5	26.0	36.4	49.8	93.9	
5.9	26.1	36.6	50.1	95.3	
6.2	26.2	36.8	50.5	96.7	
6.5	26.3	37.0	51.0	98.0	
6.8	26.6	37.2	51.4	99.5	
7.2	26.8	37.4	51.8	100.7	
7.6	27.0	37.6	52.2	102.0	
8.0	27.2	37.8	52.6		
8.3	27.5	38.0	53.1		
8.5	27.6	38.2	53.5		
8.9	27.8	38.4	54.0		
9.4	28.1	38.6	54.5		
9.8	28.4	38.8	55.0		
10.2	28.6	39.0	55.5		
10.5	28.8	39.2	55.9		
10.9	29.1	39.5	56.4		
11.3	29.3	39.7	56.9		
11.7	29.6	39.9	57.4		
12.2	29.8	40.1	58.0		
12.6	30.0	40.3	58.5		
13.0	30.1	40.6	59.1		
13.5	30.3	40.8	59.7		
14.0	30.5	41.0	60.2		
14.4	30.7	41.3	60.9		
15.1	31.0	41.5	61.5		
15.5	31.1	41.8	62.2		
15.8	31.3	42.0	62.9		
16.2	31.5	42.3	63.5		
16.8	31.7	42.5	64.3		
17.0	31.9	42.8	65.0		
17.4	32.2	43.0	65.8		
18.0	32.4	43.3	66.7		
18.5	32.6	43.5	67.5		
18.9	32.8	43.8	68.4		
19.2	32.9	44.0	69.4		
19.5	33.1	44.3	70.4		
20.0	33.3	44.5	71.3		
20.4	33.5	44.8	72.5		
20.8	33.7	45.1	73.5		
21.2	33.9	45.3	74.5		
21.5	34.1	45.6	75.6		
22.0	34.2	45.8	76.7		
22.4	34.4	46.1	77.9		
22.7	34.6	46.4	79.2		
23.0	34.8	46.8	80.5		

CORRELATED CBR VALUES



Notes:
SG = Subgrade

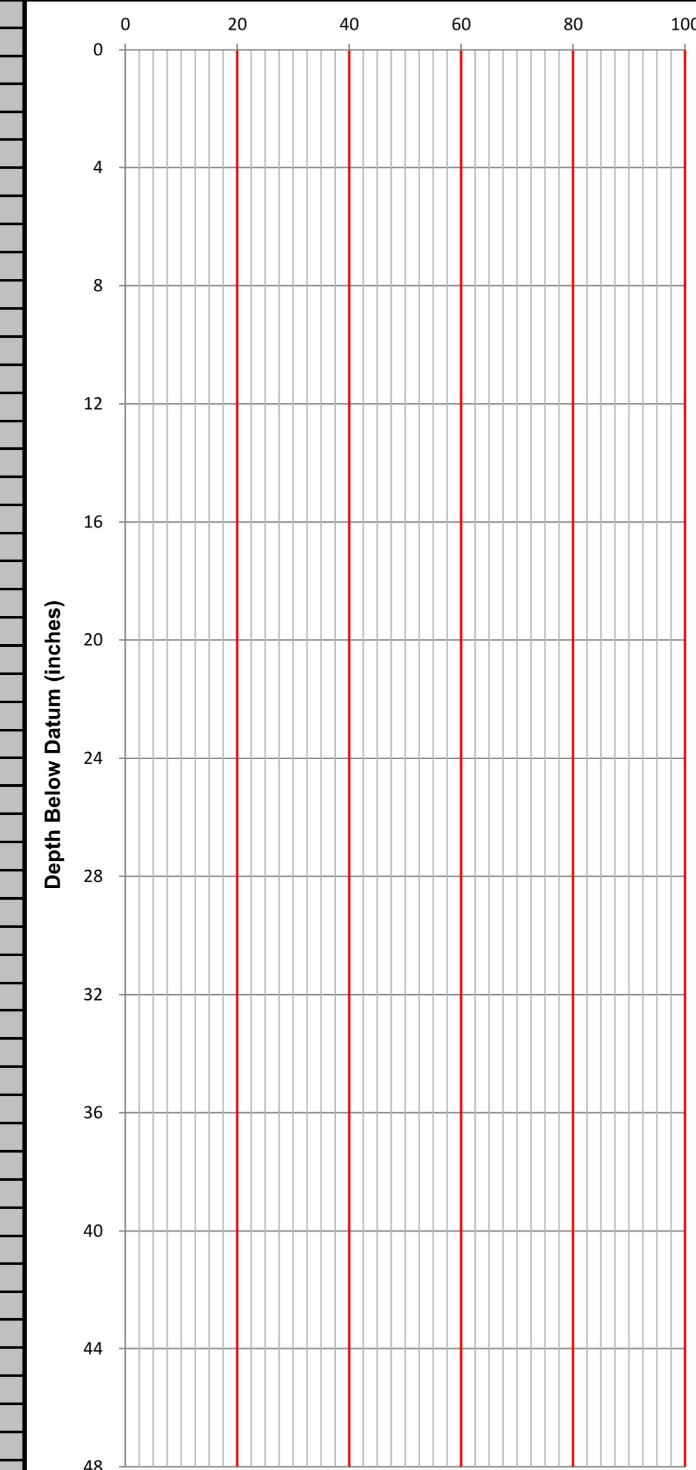
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	Gruber Road
COUNTY	**GEOLOGIST**	**TECHNICIANS**
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
GRUBER RD 16+00 LT-OSL			N/A
DATUM	**CUT / FILL**	**NORTHING**	**EASTING**
SG	GRADE	500,684	2,005,478

CUMULATIVE PENETRATION IN CENTIMETERS

CORRELATED CBR VALUES



Notes:
NO DCP TEST PERFORMED DUE TO SUBSURFACE UTILITY CONFLICT
SG = Subgrade

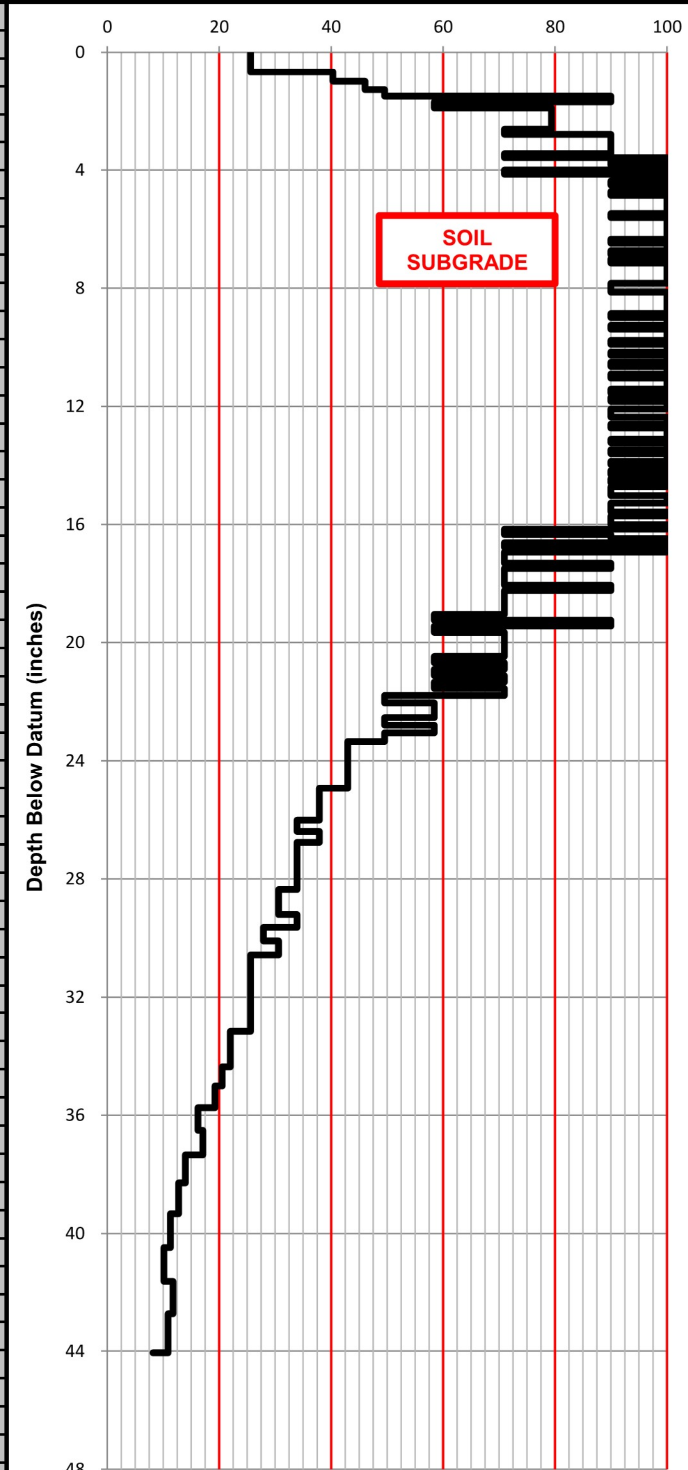
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	Gruber Road
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
GRUBER RD 23+00 RT-OSL			4/24/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	GRADE	500,767	2,006,136

CUMULATIVE PENETRATION IN CENTIMETERS

1.3	21.1	38.3	68.5		
2.2	21.5	38.6	69.5		
2.9	21.8	39.0	70.5		
3.6	22.1	39.4	71.5		
4.0	22.3	39.7	72.6		
4.6	22.7	40.1	73.7		
5.1	23.0	40.5	74.7		
5.5	23.3	40.8	75.9		
6.0	23.7	41.3	77.0		
6.4	24.0	41.7	78.3		
6.9	24.3	42.0	79.6		
7.3	24.6	42.5	80.9		
7.7	25.0	42.8	82.2		
8.1	25.3	43.3	83.5		
8.5	25.6	43.8	85.0		
9.0	26.0	44.2	86.5		
9.2	26.2	44.7	88.1		
9.6	26.5	45.2	89.8		
9.9	26.9	45.7	91.8		
10.4	27.2	46.1	93.7		
10.7	27.5	46.6	96.0		
10.9	27.9	47.1	98.5		
11.3	28.2	47.6	101.3		
11.6	28.5	48.1	104.4		
11.8	28.8	48.7	107.1		
12.2	29.2	49.1	110.0		
12.5	29.5	49.7	113.8		
12.9	29.9	50.2			
13.2	30.2	50.7			
13.5	30.5	51.2			
13.7	30.9	51.7			
14.1	31.3	52.3			
14.4	31.5	52.8			
14.7	31.8	53.4			
15.0	32.2	53.9			
15.3	32.5	54.5			
15.7	32.8	55.0			
15.9	33.1	55.7			
16.3	33.5	56.3			
16.6	33.7	56.9			
16.9	34.0	57.6			
17.3	34.4	58.2			
17.6	34.7	58.9			
18.0	35.0	59.7			
18.3	35.4	60.5			
18.5	35.6	61.3			
18.8	35.8	62.1			
19.1	36.2	62.9			
19.4	36.5	63.8			
19.7	36.9	64.7			
20.1	37.2	65.6			
20.5	37.6	66.6			
20.8	38.0	67.5			

CORRELATED CBR VALUES



Notes:
SG = Subgrade

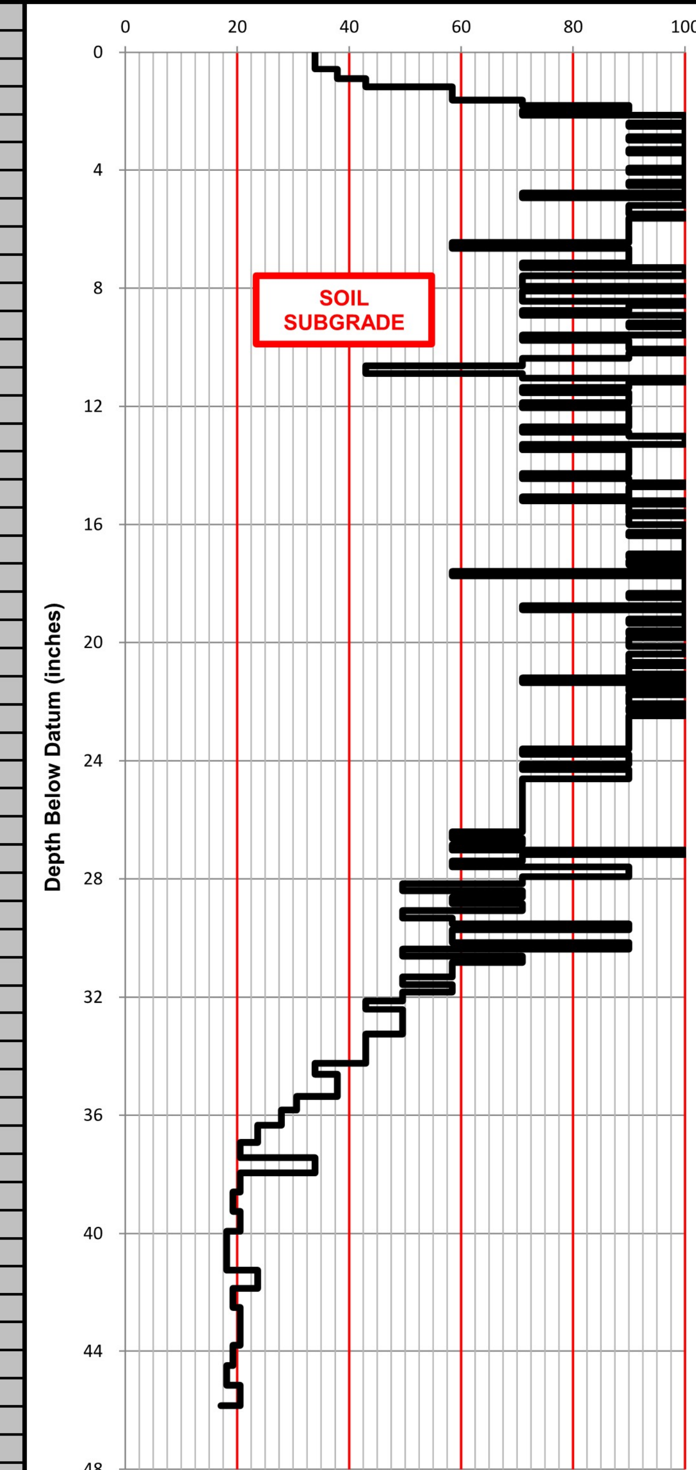
DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	Gruber Road
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
GRUBER RD 23+00 RT-ISL			4/24/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	GRADE	500,781	2,006,133

CUMULATIVE PENETRATION IN CENTIMETERS

1.0	21.3	42.1	60.2	93.0	
1.9	21.6	42.4	60.6	94.6	
2.7	22.0	42.7	61.0	95.6	
3.3	22.5	43.0	61.5	97.2	
3.9	22.8	43.4	61.9	98.9	
4.4	23.1	43.6	62.3	100.5	
4.8	23.5	44.0	62.8	102.3	
5.3	23.8	44.3	63.3	104.1	
5.6	24.1	44.4	63.8	105.5	
5.9	24.6	45.0	64.3	107.2	
6.3	25.0	45.2	64.8	108.8	
6.5	25.4	45.5	65.3	110.4	
6.8	25.7	45.8	65.8	112.1	
7.1	26.1	46.1	66.3	113.9	
7.5	26.6	46.4	66.8	115.5	
7.7	27.4	46.8	67.4	117.4	
7.9	27.9	47.1	67.9		
8.2	28.2	47.4	68.5		
8.6	28.6	47.9	68.8		
8.8	29.1	48.1	69.3		
9.0	29.5	48.4	69.9		
9.3	29.9	48.6	70.3		
9.5	30.4	49.0	70.7		
9.8	30.8	49.3	71.2		
10.2	31.2	49.6	71.9		
10.5	31.6	50.0	72.4		
10.8	32.0	50.2	73.0		
11.0	32.5	50.6	73.5		
11.4	32.9	51.0	74.2		
11.6	33.2	51.3	74.8		
11.9	33.5	51.6	75.2		
12.4	34.0	52.0	75.8		
12.7	34.4	52.4	76.4		
13.0	34.8	52.6	76.8		
13.4	35.2	53.0	77.5		
13.8	35.6	53.4	78.0		
14.1	36.0	53.6	78.6		
14.5	36.5	54.1	79.2		
14.9	36.9	54.4	79.9		
15.3	37.2	54.8	80.5		
15.7	37.6	55.1	81.2		
16.1	38.0	55.5	82.0		
16.7	38.5	55.9	82.7		
17.1	38.7	56.2	83.4		
17.5	39.1	56.6	84.1		
17.9	39.5	56.9	84.9		
18.4	39.7	57.3	85.7		
18.7	40.1	57.7	86.5		
19.0	40.5	58.1	87.5		
19.5	40.8	58.5	88.4		
20.0	41.1	58.9	89.3		
20.3	41.5	59.3	90.4		
20.8	41.8	59.7	91.6		

CORRELATED CBR VALUES



Notes:
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

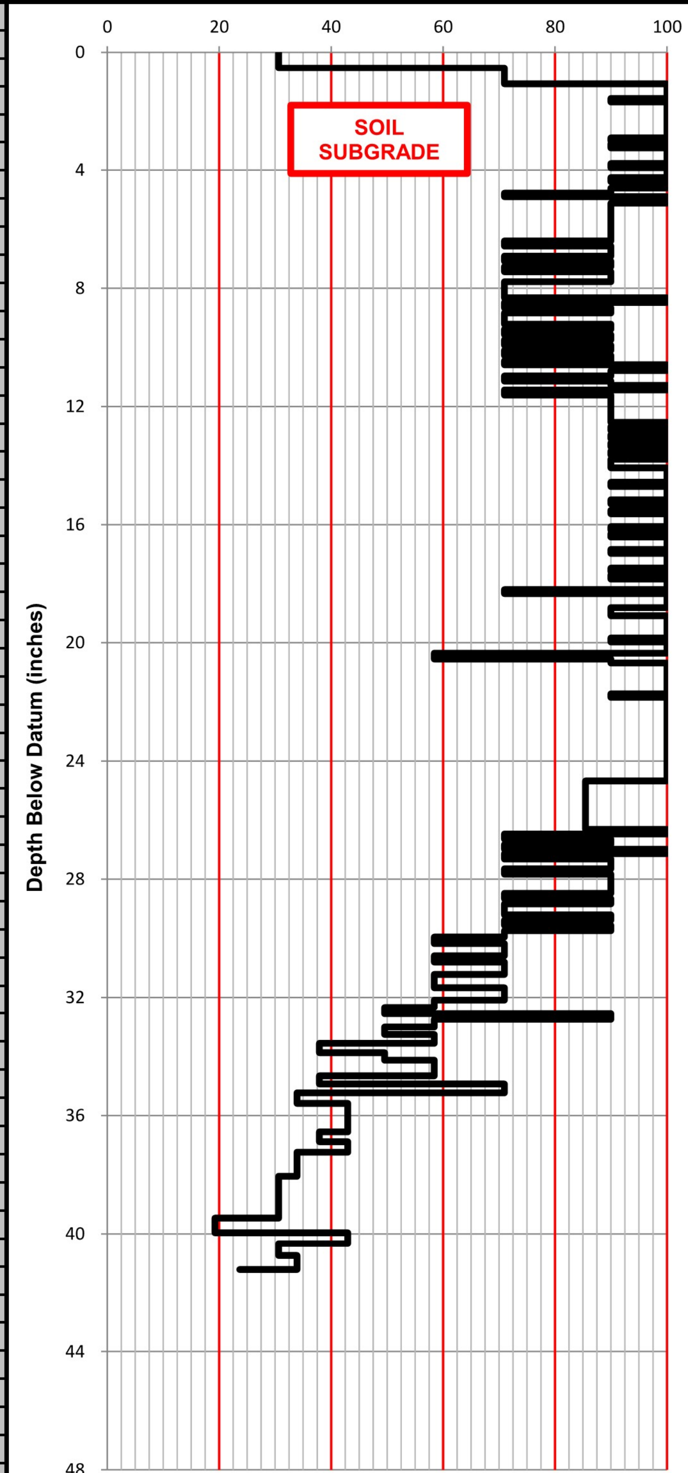
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	Gruber Road
COUNTY	GEOLOGIST	TECHNICIANS
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
GRUBER RD 23+00 CTL			4/24/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	GRADE	500,794	2,006,130

CUMULATIVE PENETRATION IN CENTIMETERS

1.1	18.7	39.0	55.0	74.9	
1.6	19.1	39.2	55.4	75.3	
2.1	19.5	39.6	55.6	75.8	
2.6	20.0	39.8	55.9	76.4	
2.9	20.5	40.1	56.2	76.9	
3.2	21.0	40.4	56.5	77.4	
3.5	21.3	40.6	56.8	78.0	
3.8	21.8	41.0	57.1	78.5	
4.2	22.2	41.2	57.4	79.0	
4.4	22.7	41.6	57.8	79.6	
4.6	23.2	41.9	58.1	80.2	
4.9	23.6	42.2	58.4	80.7	
5.2	24.1	42.4	58.7	81.2	
5.4	24.5	42.6	59.0	81.8	
5.7	25.0	43.0	59.3	82.5	
6.0	25.4	43.3	59.6	82.9	
6.2	25.9	43.6	59.9	83.5	
6.3	26.3	43.9	60.3	84.2	
6.6	26.8	44.2	60.6	84.8	
6.9	27.0	44.6	60.9	85.7	
7.2	27.2	44.8	61.2	86.4	
7.6	27.6	45.2	61.5	87.0	
7.7	28.1	45.5	61.9	87.6	
8.1	28.5	45.8	62.2	88.5	
8.4	28.8	46.0	62.5	89.0	
8.6	29.3	46.5	62.9	90.0	
8.9	29.7	46.7	63.3	90.8	
9.1	30.1	47.0	63.8	91.6	
9.4	30.5	47.3	64.2	92.4	
9.8	30.9	47.6	64.6	93.3	
10.1	31.3	48.0	65.0	94.1	
10.4	31.7	48.4	65.4	95.1	
10.6	32.0	48.6	65.9	96.1	
11.0	32.4	48.9	66.3	97.2	
11.3	32.7	49.1	66.7	98.3	
11.5	33.1	49.4	67.0	99.4	
11.9	33.4	49.7	67.5	101.1	
12.4	33.8	50.0	67.9	101.9	
12.5	34.1	50.2	68.4	103.0	
12.8	34.5	50.6	68.7	104.0	
13.2	34.8	50.9	69.2	105.4	
13.6	35.2	51.1	69.6		
14.0	35.6	51.4	70.0		
14.4	35.9	52.0	70.5		
14.8	36.2	52.4	70.9		
15.2	36.5	52.7	71.3		
15.6	36.8	53.0	71.7		
16.0	37.2	53.3	72.1		
16.5	37.5	53.5	72.6		
16.9	37.8	53.8	73.0		
17.3	38.0	54.1	73.5		
17.8	38.3	54.4	74.0		
18.2	38.7	54.7	74.4		

CORRELATED CBR VALUES



Notes:
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR

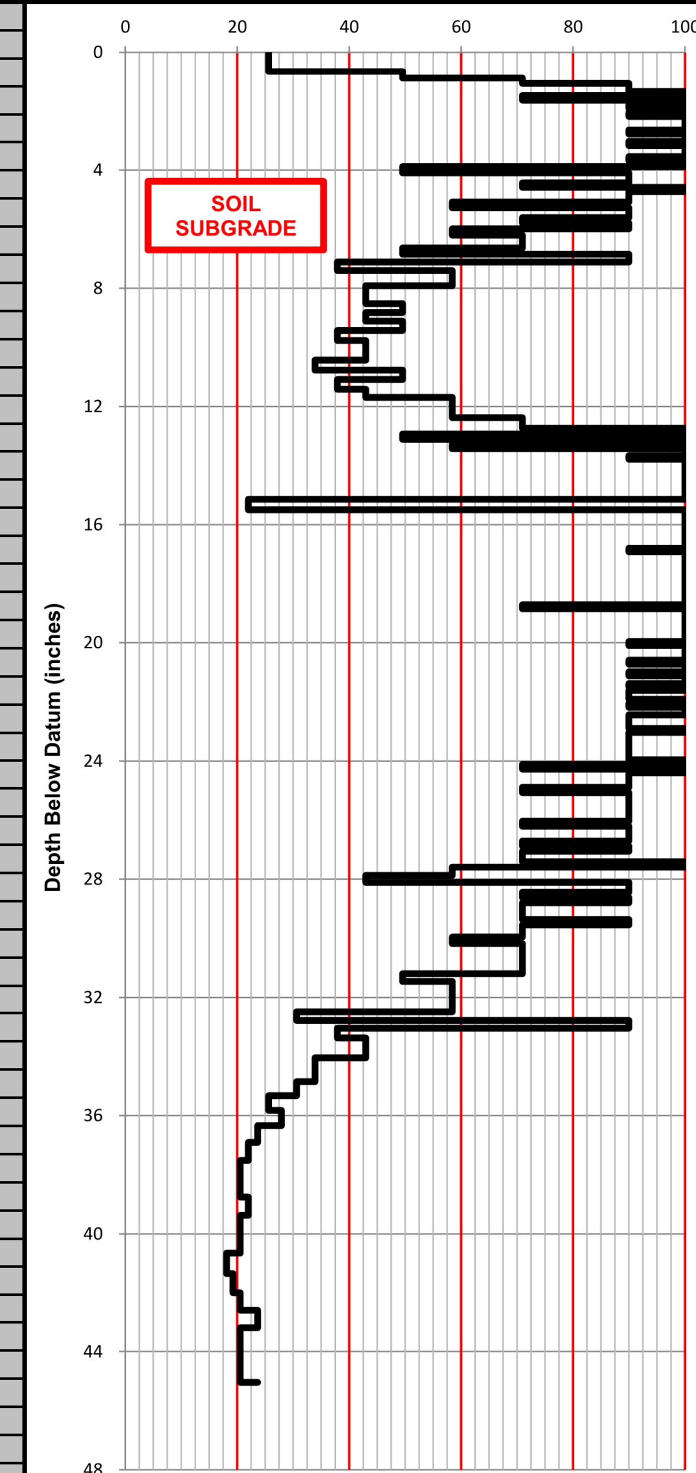
PROJECT NUMBER	TIP	ROUTE
49218.26	N/A	Gruber Road
COUNTY	GEOLOGIST	TECHNICIANS
Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
GRUBER RD 23+00 LT-ISL			4/25/2025
DATUM	CUT / FILL	NORTHING	EASTING
SG	GRADE	500,808	2,006,127

CUMULATIVE PENETRATION IN CENTIMETERS

1.3	27.7	46.5	64.7	104.2	
2.0	28.6	46.8	65.1	105.9	
2.5	29.4	47.0	65.5	107.5	
2.9	30.0	47.3	65.9	108.9	
3.3	30.6	47.8	66.4	110.5	
3.5	31.2	48.0	66.8	112.1	
4.0	31.7	48.3	67.2	113.7	
4.3	32.2	48.5	67.6	115.1	
4.7	32.5	48.8	68.1		
5.0	33.2	49.1	68.5		
5.4	33.4	49.4	69.0		
5.7	34.0	49.7	69.5		
6.0	34.2	49.9	69.8		
6.3	34.5	50.2	70.4		
6.5	34.9	50.5	71.2		
6.9	35.1	50.9	71.6		
7.2	35.3	51.2	72.0		
7.5	35.6	51.5	72.5		
7.9	35.8	51.8	72.9		
8.2	36.0	52.1	73.4		
8.5	36.2	52.5	73.9		
8.8	36.5	52.8	74.4		
9.2	36.7	53.1	74.8		
9.5	37.0	53.5	75.3		
10.2	37.2	53.8	75.8		
10.6	37.5	54.1	76.4		
11.0	37.7	54.5	76.9		
11.5	39.2	54.7	77.4		
11.8	39.5	55.1	77.9		
12.2	39.7	55.5	78.4		
12.6	40.0	55.8	78.9		
13.2	40.3	56.2	79.6		
13.6	40.5	56.5	80.2		
14.0	40.8	56.8	80.8		
14.5	41.1	57.2	81.4		
14.9	41.4	57.6	82.0		
15.5	41.7	58.0	83.1		
16.0	42.0	58.3	83.5		
16.5	42.2	58.7	84.4		
17.2	42.5	59.1	85.2		
17.6	42.9	59.5	86.0		
18.5	43.1	59.9	87.0		
19.1	43.4	60.3	88.0		
19.7	43.6	60.7	89.1		
20.5	43.9	61.0	90.4		
21.3	44.2	61.5	91.6		
22.0	44.5	61.8	93.0		
22.8	44.8	62.2	94.5		
23.5	45.1	62.6	96.1		
24.4	45.4	63.0	97.7		
25.2	45.7	63.5	99.2		
26.0	45.9	63.9	100.8		
27.0	46.2	64.3	102.4		

CORRELATED CBR VALUES



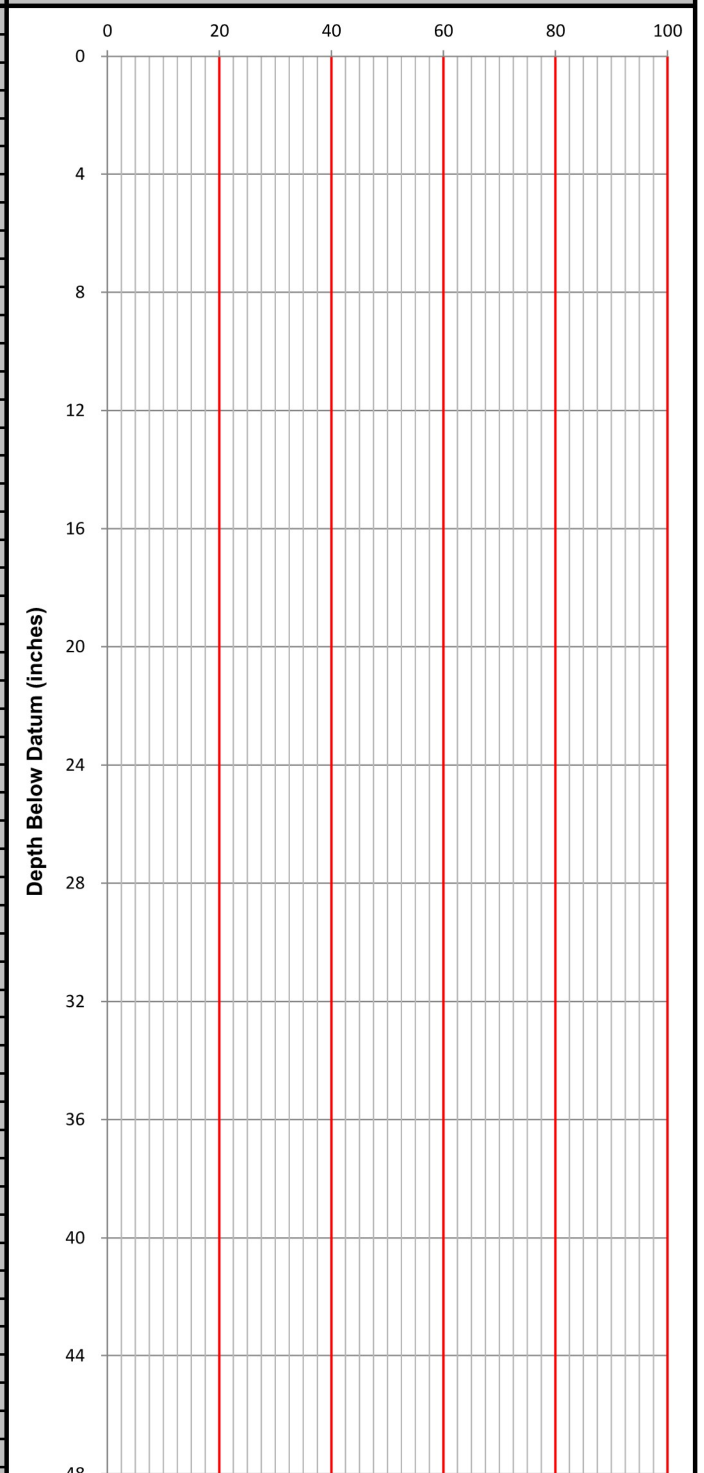
Notes:
SG = Subgrade

DYNAMIC CONE PENETROMETER DATA AND IN-SITU CBR	PROJECT NUMBER	TIP	ROUTE
	49218.26	N/A	Gruber Road
	COUNTY	GEOLOGIST	TECHNICIANS
	Cumberland	Smith, B.	White, J. & Murray, T.

TEST LOCATION DESCRIPTION			DATE RUN
GRUBER RD 23+00 LT-OSL			N/A
DATUM	CUT / FILL	NORTHING	EASTING
SG	GRADE	500,820	2,006,125

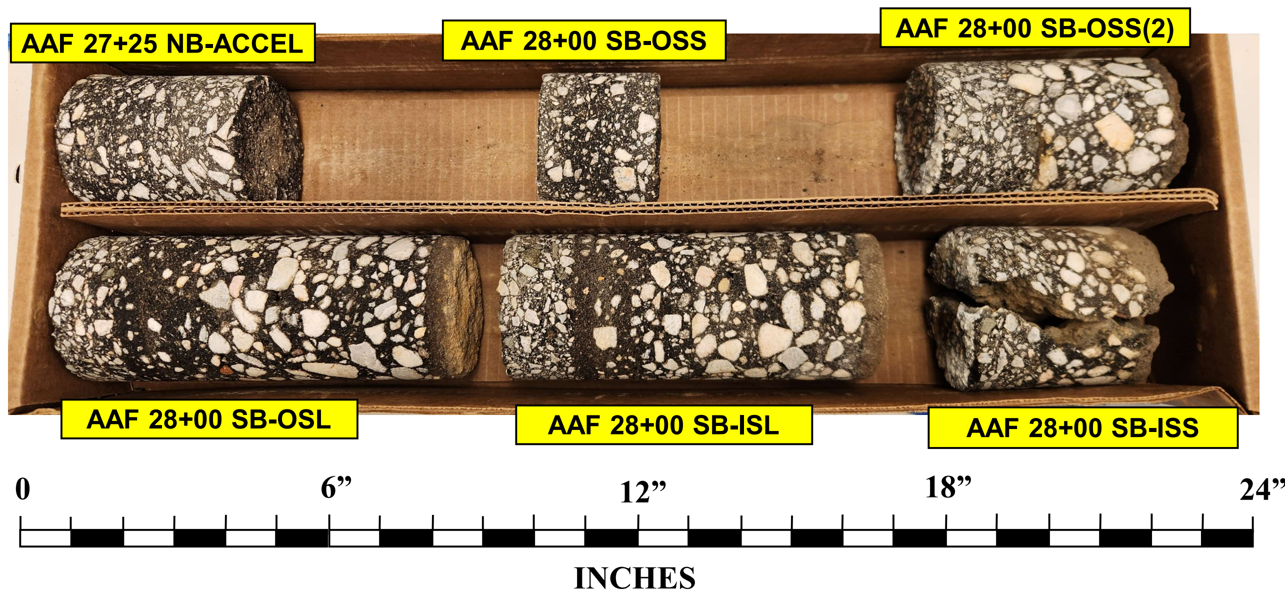
CUMULATIVE PENETRATION IN CENTIMETERS

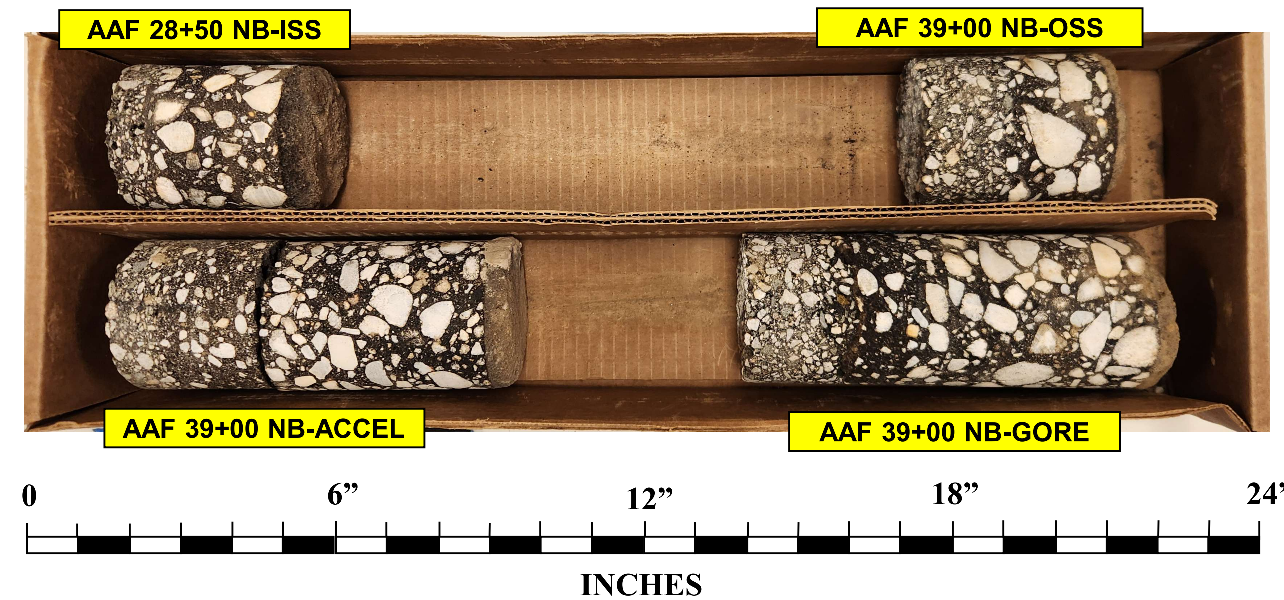
CORRELATED CBR VALUES

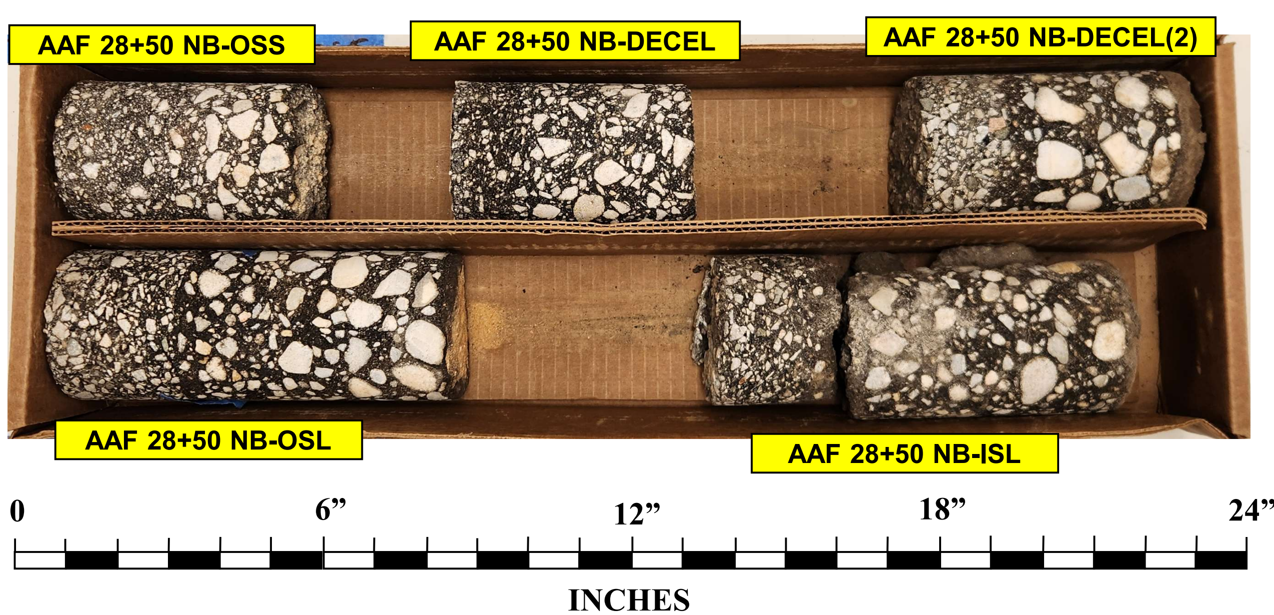


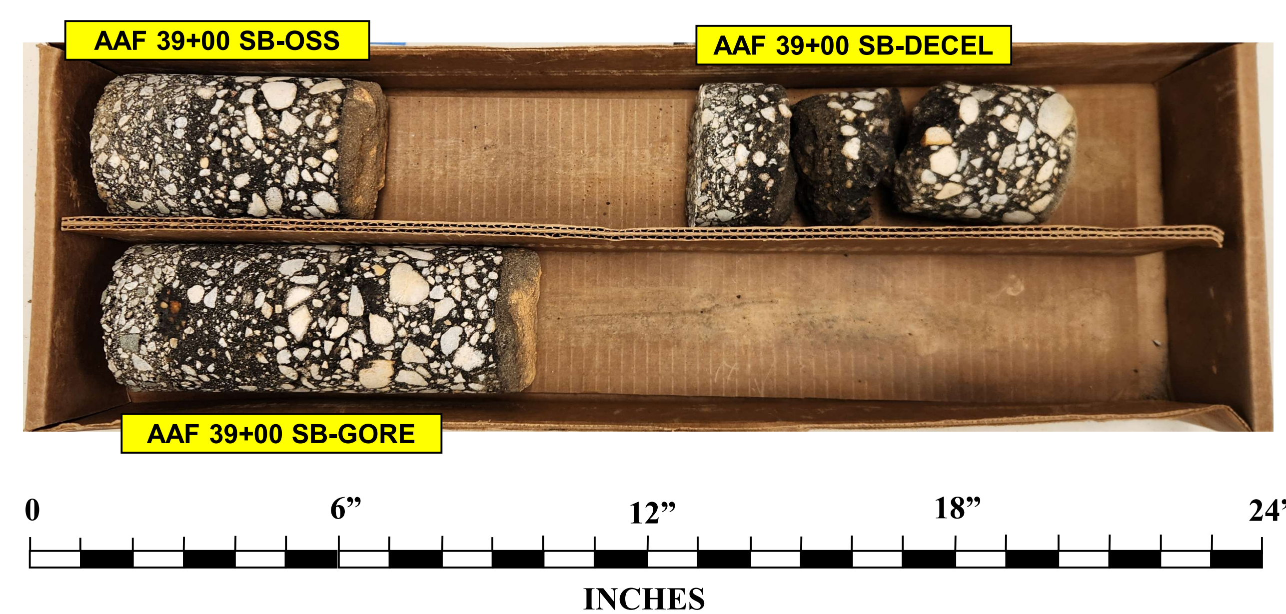
Notes:
NO DCP TEST PERFORMED DUE TO SUBSURFACE UTILITY CONFLICT
SG = Subgrade

PAVEMENT CORE PHOTOGRAPHS

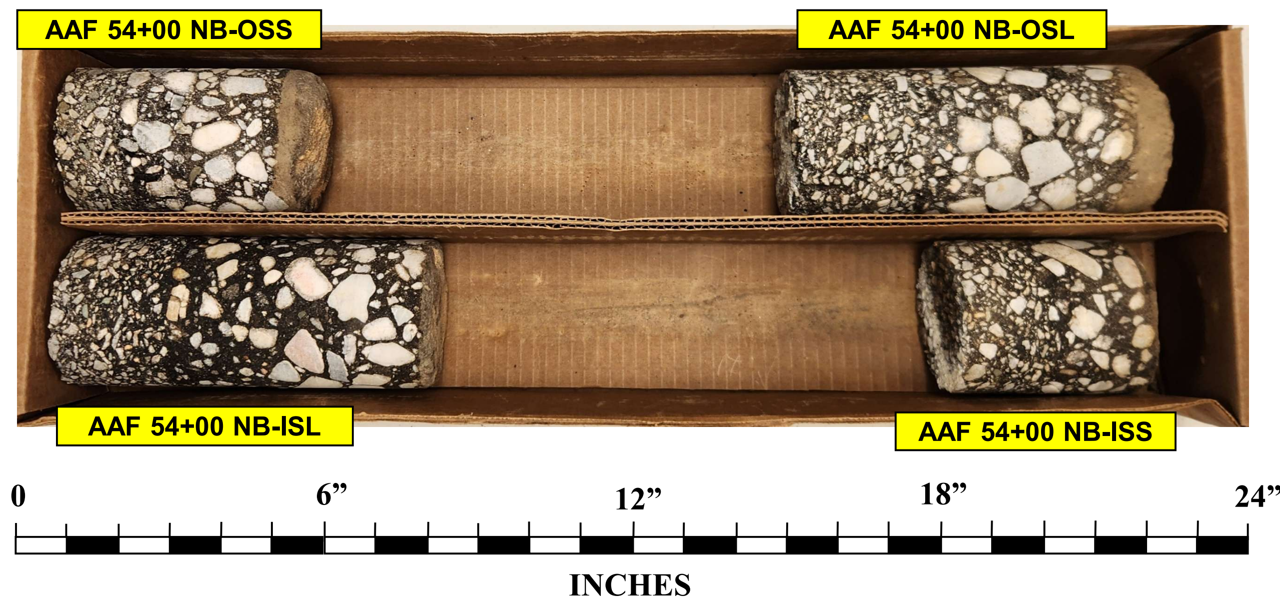


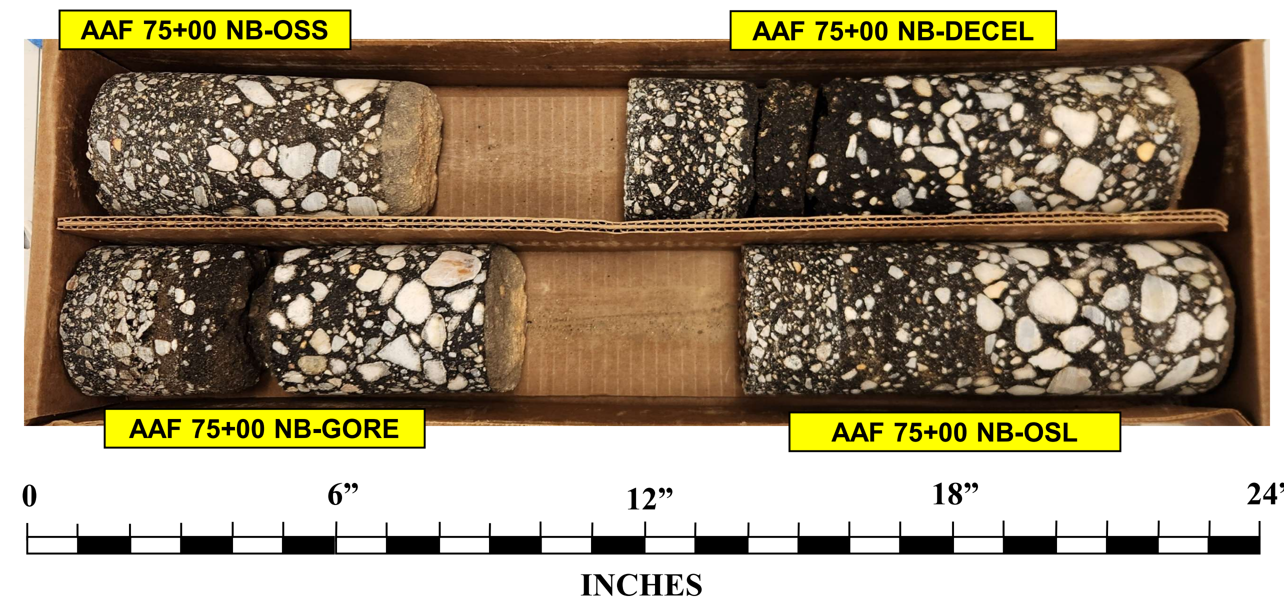


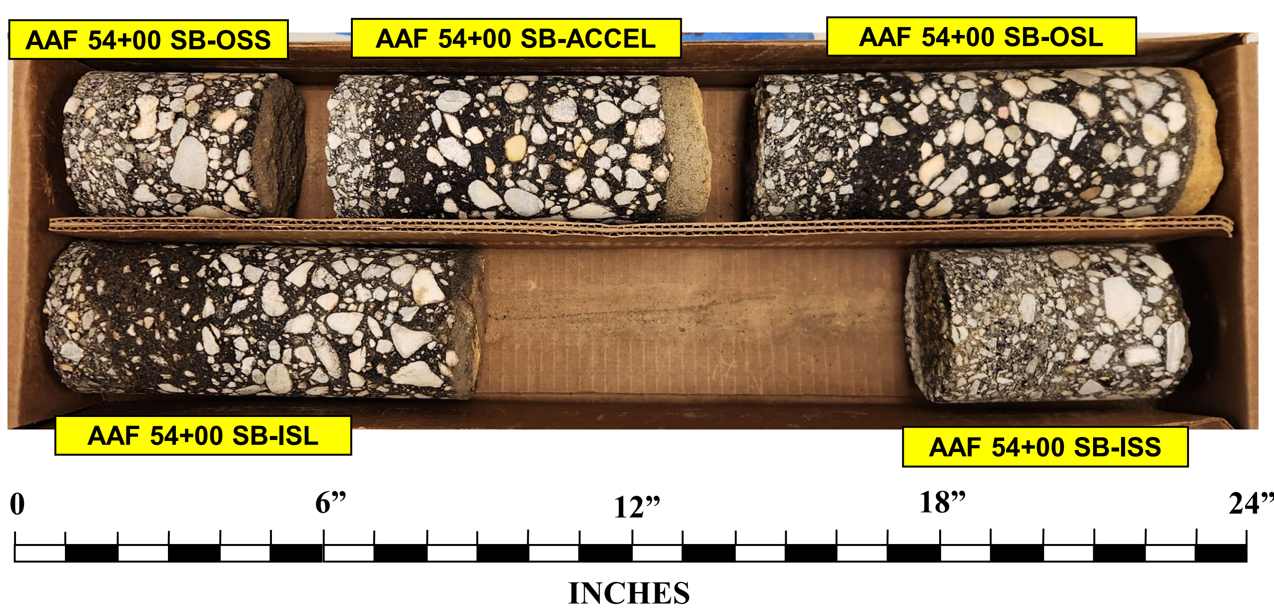


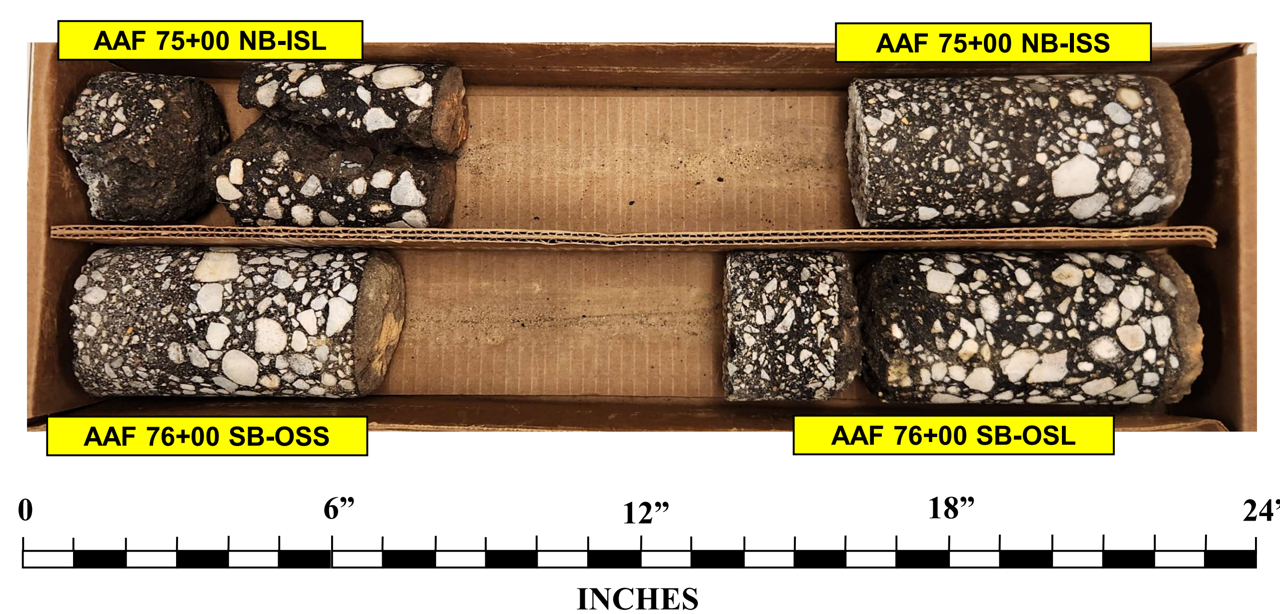


PAVEMENT CORE PHOTOGRAPHS

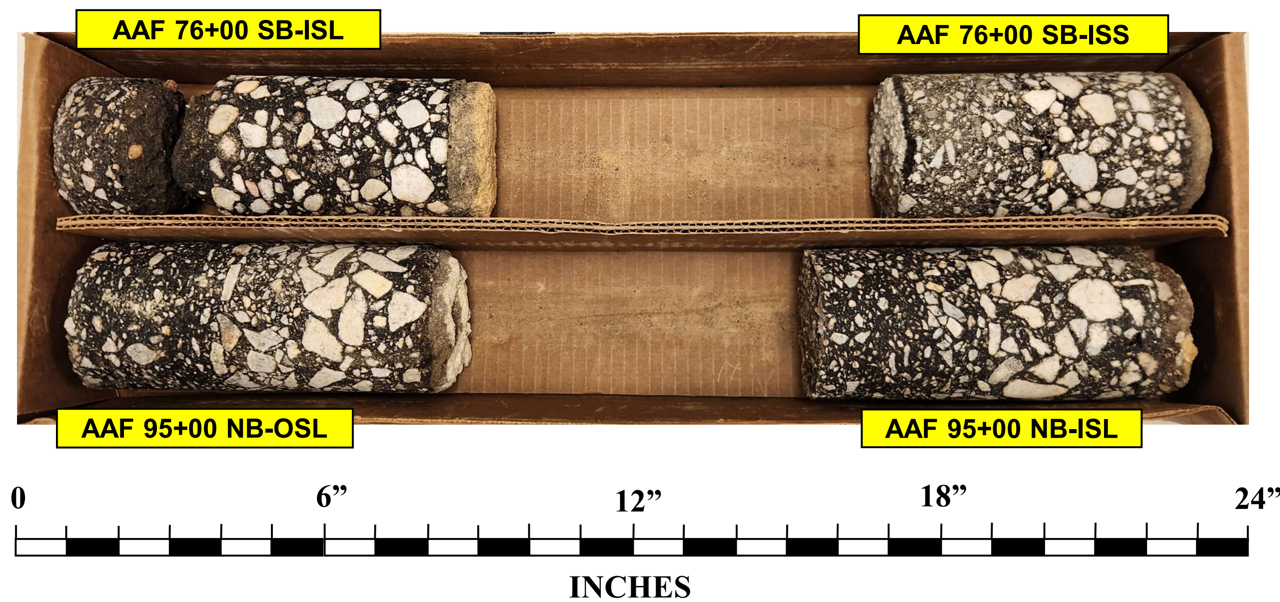


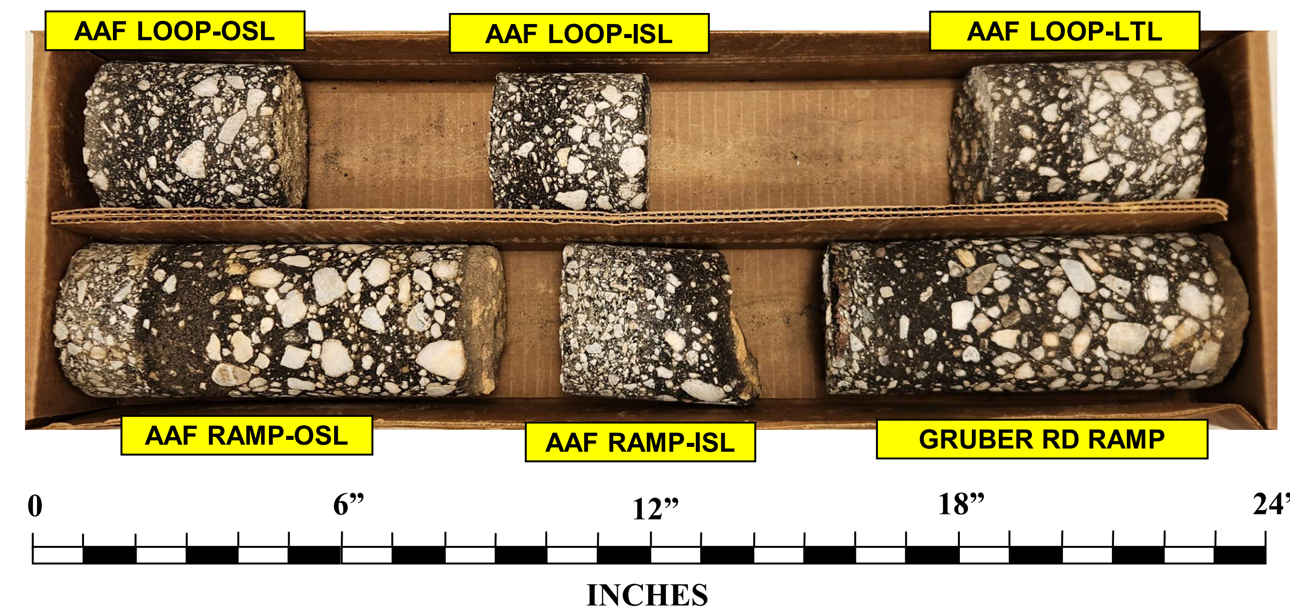


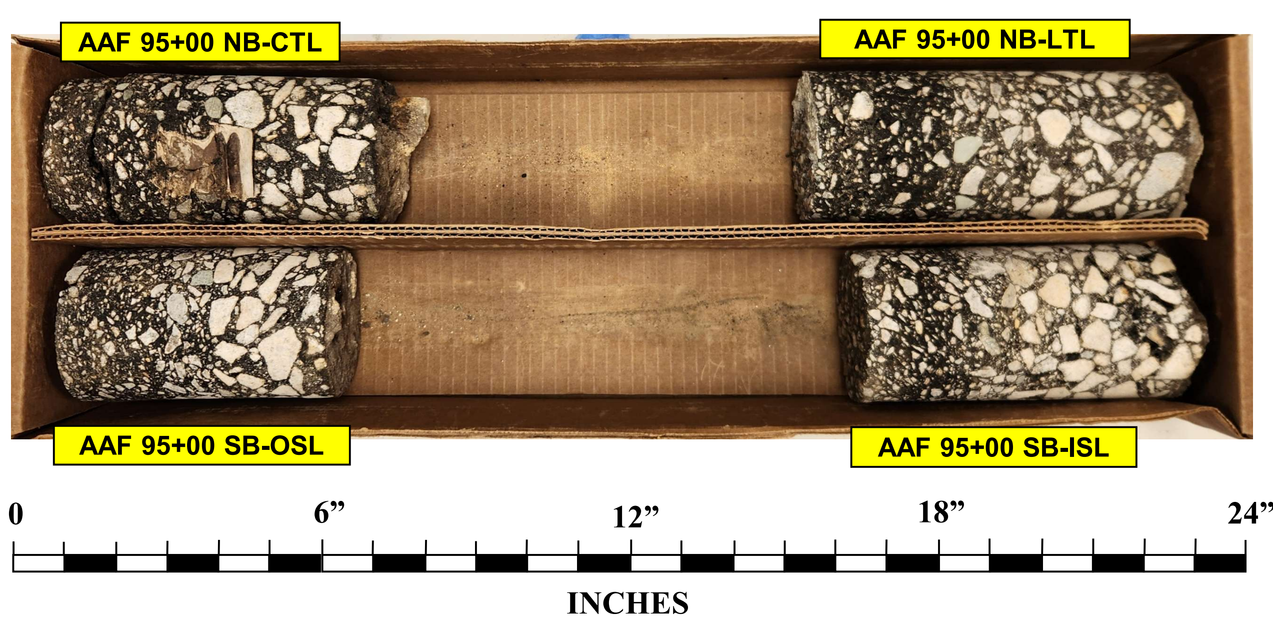


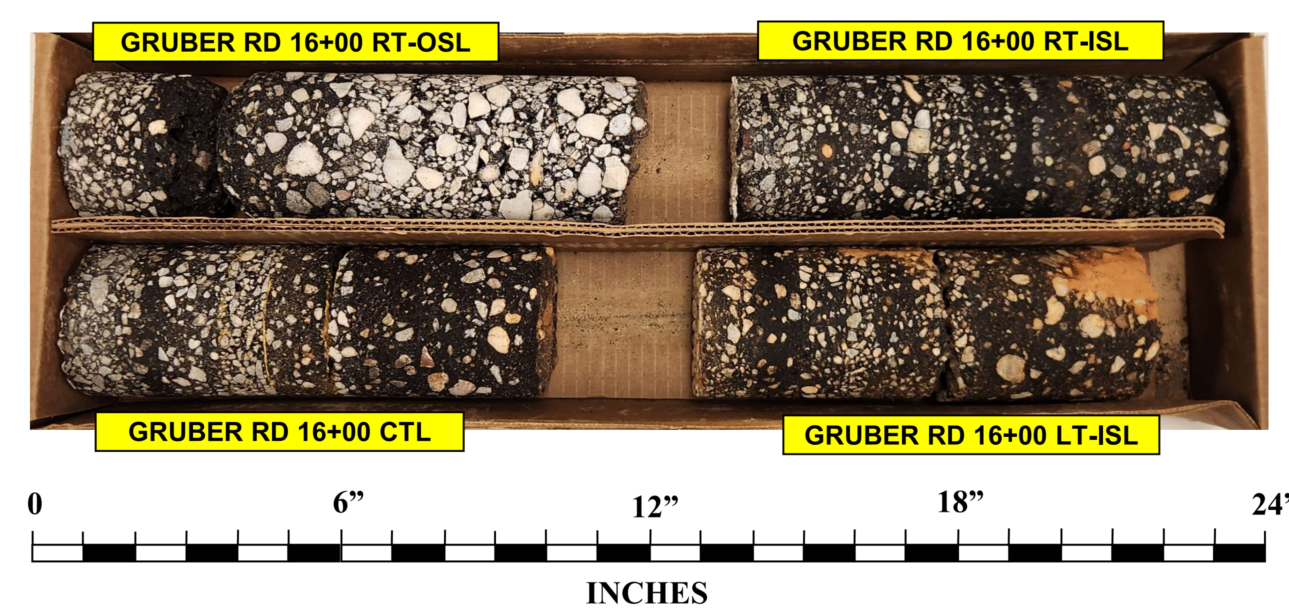


PAVEMENT CORE PHOTOGRAPHS

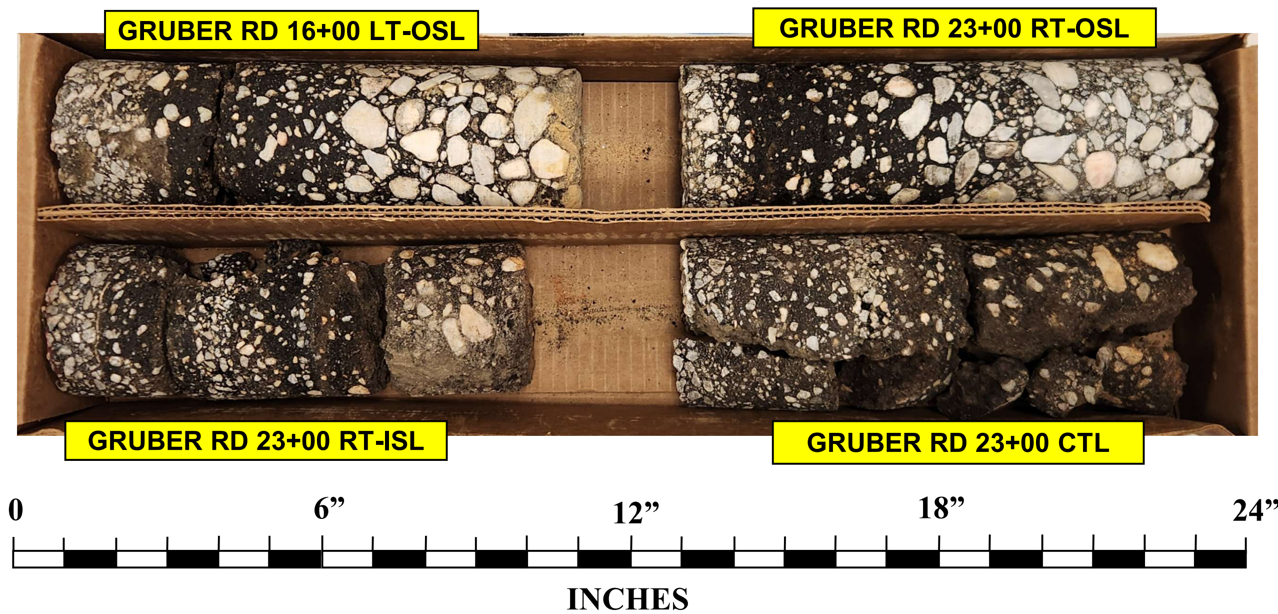


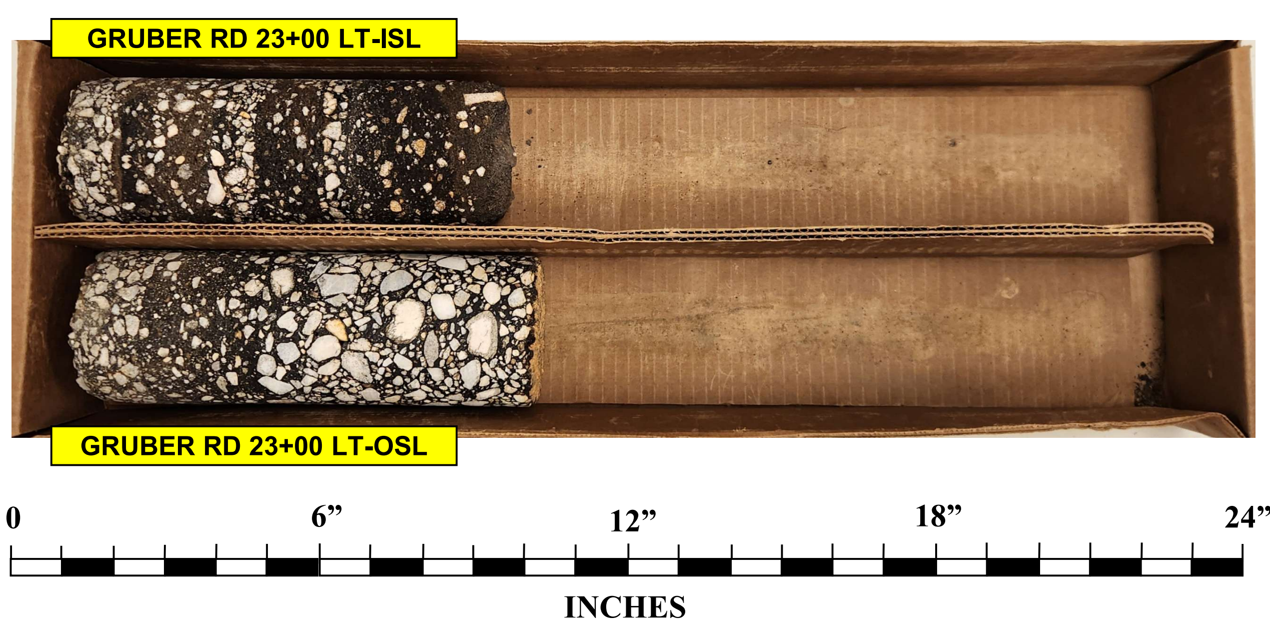






PAVEMENT CORE PHOTOGRAPHS





Laboratory Testing Summary

Project Number: 49218.26
TIP Number: N/A
County: Cumberland
Description: Fort Bragg PDI - All American Freeway (AAF) and Gruber Road

Boring No.	Sample No.	Station	Offset (feet)	Depth Interval (feet)	Lab ID	AASHTO Class.	L.L.	P.I.	% by Weight				% Retained #4 Sieve	% Passing (sieves)			% Moisture	% Organic
									Coarse Sand	Fine Sand	Silt	Clay		#10	#40	#200		
AAF 28+00 SB-OSL	S-15	N/A	N/A	1.0 - 3.0	25-0973	A-3 (0)	NP	NP	57.4	35.7	6.4	0.5	0.0	99.6	73.1	8.8	9.9%	-
AAF 28+50 NB-OSS	S-19	N/A	N/A	1.5 - 2.5	25-0974	A-1-b (0)	NP	NP	62.8	17.0	14.7	5.5	0.0	95.6	49.4	21.6	5.7%	-
AAF 39+00 NB-GORE	S-21	N/A	N/A	2.0 - 3.5	25-0975	A-7-6 (13)	44	19	19.4	11.0	34.5	35.1	0.0	99.2	87.5	70.6	20.9%	-
AAF 39+00 SB-DECEL	S-14	N/A	N/A	1.0 - 2.5	25-0976	A-2-4 (0)	NP	NP	64.9	22.8	7.8	4.5	1.9	96.3	56.4	13.5	7.0%	-
AAF 54+00 NB-OSL	S-23	N/A	N/A	1.0 - 3.0	25-0977	A-2-4 (0)	NP	NP	45.4	24.8	11.4	18.4	0.0	98.9	71.5	32.8	11.7%	-
AAF 54+00 SB-OSS	S-13	N/A	N/A	2.5 - 3.5	25-0978	A-2-4 (0)	NP	NP	66.5	18.2	2.9	12.4	0.6	97.9	59.1	16.2	8.8%	-
AAF 75+00 NB-ISL	S-7	N/A	N/A	2.0 - 3.5	25-0979	A-7-5 (5)	53	22	47.5	13.1	8.5	30.9	0.0	98.4	66.1	40.5	15.5%	-
AAF 76+00 SB-OSL	S-11	N/A	N/A	2.5 - 3.5	25-0980	A-2-4 (0)	NP	NP	63.3	18.0	7.9	10.8	2.2	96.5	60.7	19	9.8%	-
AAF 95+00 SB-OSL	S-9	N/A	N/A	2.0 - 3.0	25-0981	A-2-4 (0)	NP	NP	67.8	17.1	8.3	6.8	0.8	98.6	63.8	16	6.7%	-
AAF LOOP-LTL	S-17	N/A	N/A	1.5 - 3.0	25-0982	A-2-4 (0)	NP	NP	55.1	25.8	5.7	13.4	15.8	81.3	58.4	17.3	7.0%	-
AAF RAMP-ISL	S-18	N/A	N/A	0.5 - 2.5	25-0983	A-2-4 (0)	NP	NP	50.4	39.5	7.7	2.4	0.0	100	86.1	12.3	4.5%	-
AAF 75+00 NB-OSS	S-29	N/A	N/A	1.5 - 3.5	25-1008	A-6 (3)	33	14	37.3	21.4	9.8	31.5	0.0	99.5	76.3	45.0	16.3%	-
AAF 75+00 NB-DECEL	S-30	N/A	N/A	1.5 - 3.0	25-1009	A-7-6 (4)	41	22	44.8	18.9	6.1	30.2	0.0	99.5	70.4	39.0	14.5%	-
AAF 95+00 NB-OSL	S-31	N/A	N/A	1.5 - 3.0	25-1010	A-2-4 (0)	NP	NP	35.6	37.6	9.4	17.4	0.0	99.5	82.7	29.7	8.6%	-
GRUBER RD RAMP	S-28	N/A	N/A	1.0 - 3.5	25-1011	A-2-4 (0)	NP	NP	40.5	30.2	13.1	16.2	3.5	92.8	71.4	31.8	6.9%	-
GRUBER RD 16+00 RT-OSL	S-24	N/A	N/A	1.0 - 4.0	25-1012	A-2-4 (0)	NP	NP	48.3	40.8	4.7	6.2	0.0	100.0	83.1	13.0	5.8%	-
GRUBER RD 23+00 RT-ISL	S-26	N/A	N/A	1.0 - 3.5	25-1013	A-2-4 (0)	NP	NP	50.6	32.1	7.1	10.2	0.0	99.5	70.8	21.6	4.8%	-

*Note: Limited Design Files were available at the time of the investigation. Station and Offset are only approximate and therefore not shown in the lab table.

Bulk Samples	Station	Offset (feet)	Depth Interval (ft)	Lab ID	Density	WC	CBR
CBR-1	N/A	N/A	0.0 - 3.0	25-1101	122.5	10.8	12.0
CBR-2	N/A	N/A	0.0 - 3.0	25-1102	120.3	8.4	19.1

*Note: See Plan Sheets for CBR Locations

Chad Hawkins
Certified Lab Technician Signature

147-02-0821
Certification Number

INFRASTRUCTURE CONSULTING & ENGINEERING
121 Midlands Ct | West Columbia, SC 29169
803-995-8943 (Lab) | www.ice-eng.com

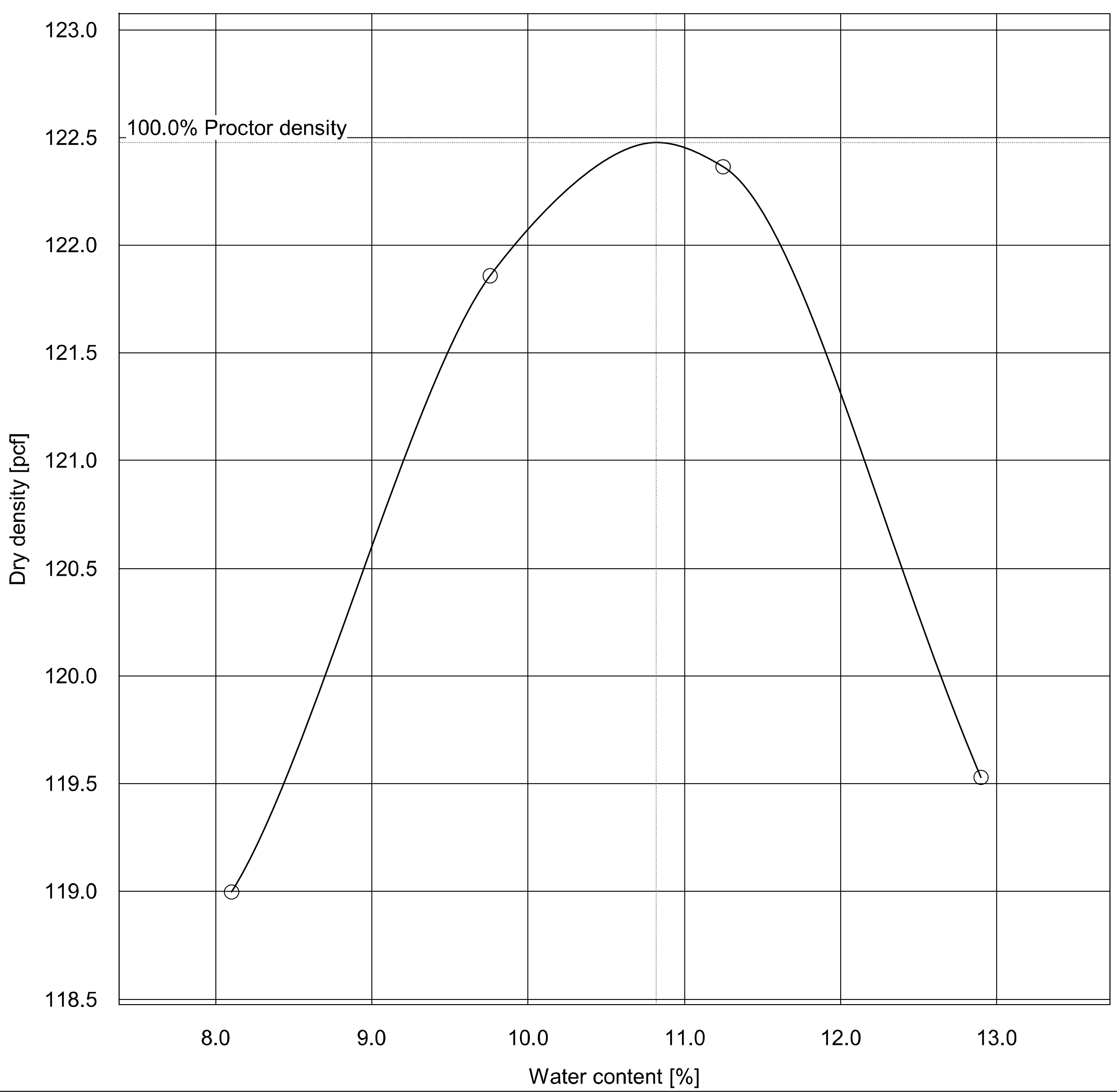
LABORATORY TEST REPORT

Report Number: 23-045.02-0001
Testing Program: CAE41225
Service Date: 05/09/2025

ICE Sample ID: CAE25-1101
External Sample ID: CBR-1 **Sampling Date:** 05/05/2025

Moisture-Density Relations of Soils
AASHTO T99 / T180

Corrected Max Dry Density (pcf)	122.5	Test Method	A
Corrected Optimum Moisture (%)	10.8	Sample Preparation	dry
Maximum Dry Density (pcf)		Rammer Type	mechanical
Optimum Moisture (%)		Cylinder Mold Diameter (mm)	101



Reviewed By: *Chad Hawkins*
Name: Chad Hawkins, PE
Date: 05/28/2025

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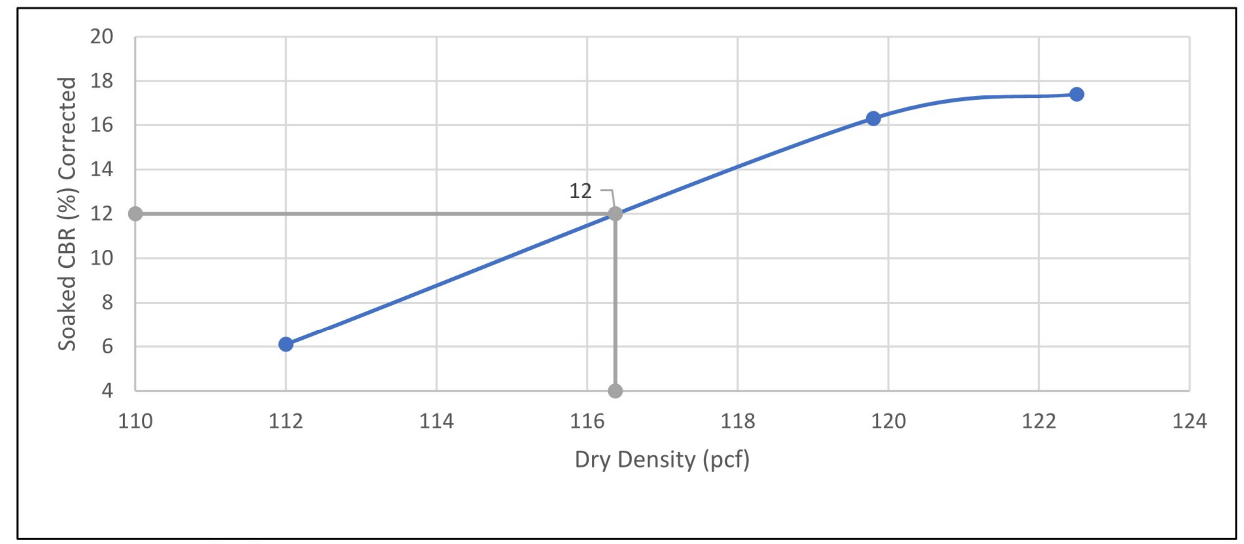
LABORATORY TEST REPORT
Service Date: 5/9/2025

ICE Sample ID: 25-1101 **Sampling Date:** 5/9/2025
External Sample ID:

California Bearing Ratio
AASHTO T193 / ASTM D698A

Project No. 23-045.02
Project Location
Offset
Max Dry Density (pcf) 122.5
Optimum WC (%) 10.8

Sample	1	2	3
Compaction Effort	10	30	65
Dry Density	112	119.8	122.5
Moisture Content	10.7	10.8	11.1
Surcharge (lbs)	10	10	10
Swell (%)	2.36%	0.09%	0.11%
Bearing Ratio	6.1	16.3	17.4



95% Dry Density (pcf) 116.4 CBR @ 95% Density 12.00

Reviewed By: *Chad Hawkins*
Name: Chad Hawkins, PE
Date: 5/27/2025

INFRASTRUCTURE CONSULTING & ENGINEERING

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LABORATORY TEST REPORT

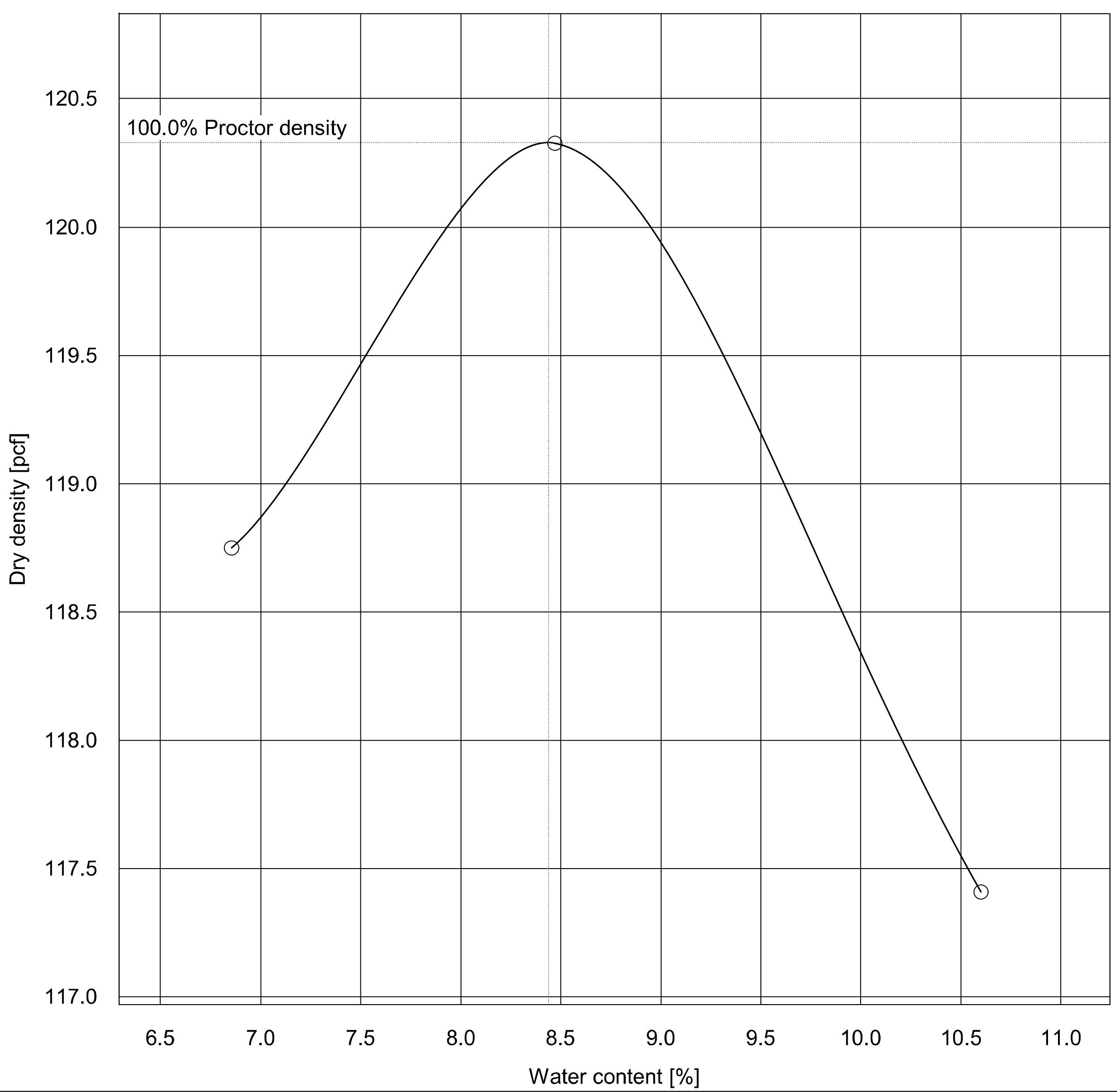
Report Number: 23-045.02-0001
Testing Program: CAE41225
Service Date: 05/09/2025

ICE Sample ID: CAE25-1102
External Sample ID: CBR-2 **Sampling Date:** 05/05/2025

Moisture-Density Relations of Soils

AASHTO T99 / T180

Corrected Max Dry Density (pcf)	120.3	**Test Method**	A
Corrected Optimum Moisture (%)	8.4	**Sample Preparation**	dry
Maximum Dry Density (pcf)		**Rammer Type**	mechanical
Optimum Moisture (%)		**Cylinder Mold Diameter (mm)**	101



Reviewed By: Chad Hawkins
Name: Chad Hawkins, PE

Date: 05/28/2025

AASHTO ACCREDITED

INFRASTRUCTURE CONSULTING & ENGINEERING

121 Midlands Ct | West Columbia, SC 29169
803-995-8943 (Lab) | www.ice-eng.com

LABORATORY TEST REPORT

Service Date: 5/9/2025

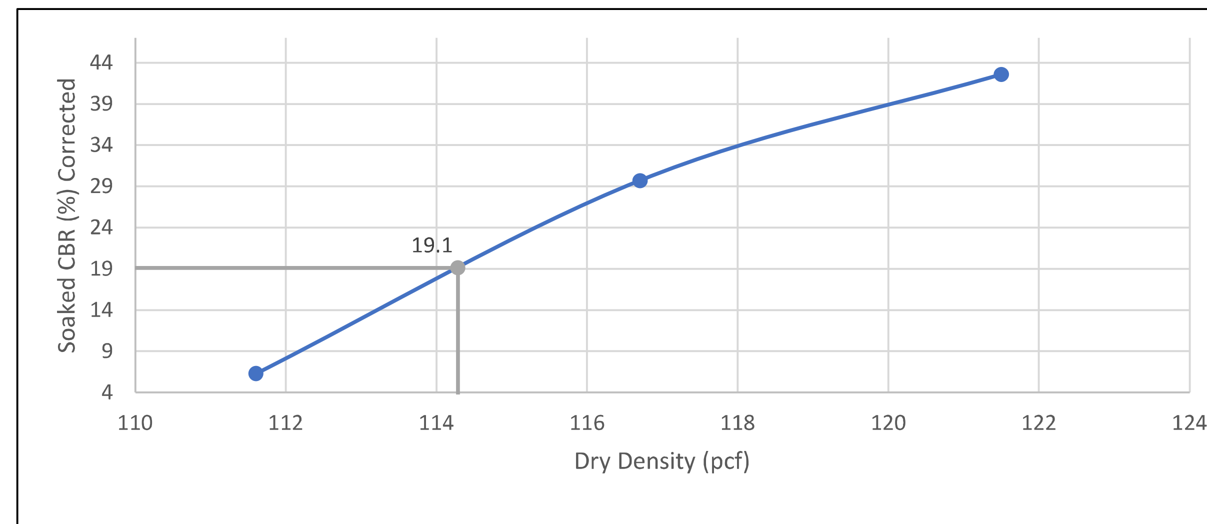
ICE Sample ID: 25-1102 **Sampling Date:** 5/9/2025
External Sample ID:

California Bearing Ratio

AASHTO T193 / ASTM D698A

Project No.	23-045.02
Project Location	Fort Bragg PDI -All American Freeway and Gruber Rd
Offset	
Max Dry Density (pcf)	120.3
Optimum WC (%)	8.4

Sample	1	2	3
Compaction Effort	10	30	65
Dry Density	111.6	116.7	121.5
Moisture Content	8.2	8.3	8.6
Surcharge (lbs)	10	10	10
Swell (%)	0.18%	0.04%	0.13%
Bearing Ratio	6.3	29.7	42.6



95% Dry Density (pcf)	114.3	CBR @ 95% Density	19.10

Reviewed By: Chad Hawkins
Name: Chad Hawkins, PE

Date: 8/7/2025

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