ID: R-2518B

PROJECT: C202007

CONTENTS:

INVESTIGATION ALONG -L-

STATE OF NORTH CAROLINA

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

GEOTECHNICAL UNIT

SUBSURFACE INVESTIGATION

STATE PROJECT 34445.1.1 I.D. NO. R-2518B

F.A. PROJECT

COUNTY YANCEY

DESCRIPTION US 19E FROM EAST OF THE YANCEY CO. LINE TO SR 1336

METRIC

ALL DIMENSIONS IN THESE PLANS ARE IN METERS

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2518B	1	187

STATE W.B.S. ELEMENT	F.A. PROJ. NO.	DESCRIPTION
34445.1.1	---	PE
34445.2.3	---	R/W & UTIL.
34445.4.2	---	CONST.

CAUTION NOTICE

THE SUBSURFACE INFORMATION AND THE SUBSURFACE INVESTIGATION ON WHICH IT IS BASED WAS 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 UNIT @ (919) 250-4088. NEITHER THE SUBSURFACE PLANS AND REPORTS, NOR THE FIELD BORING LOGS, ROCK CORES, OR SOIL TEST DATA IS 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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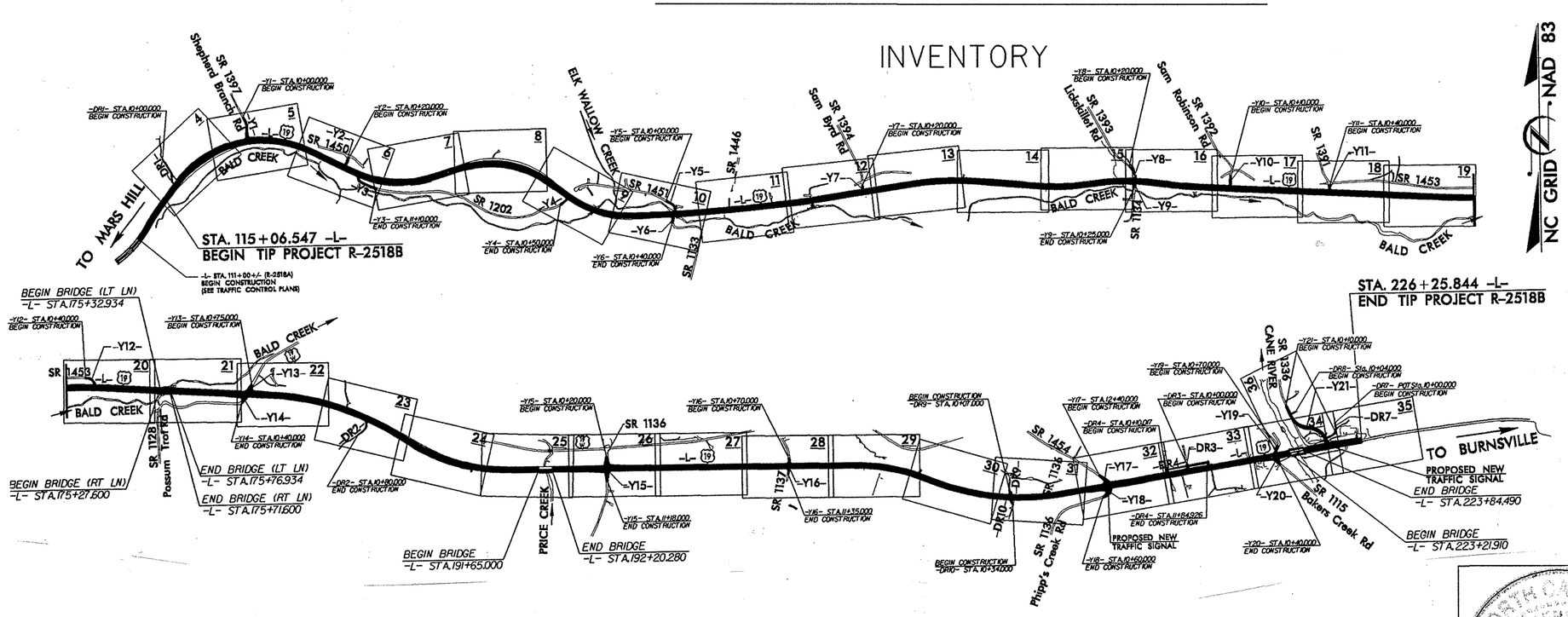
INVENTORY



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INVESTIGATED BY J C KUHNE PERSONNEL D O CHEEK

CHECKED BY C COFFEY

SUBMITTED BY J C KUHNE GK ROSE

DATE

DRAWN BY: J C KUHNE

NORTH CAROLINA REGISTERED SEAL 1978 ENGINEER

SEAL

SIGNATURE 7/15/05

ID	STATE PROJECT NO.	SHEET NO.	TOTAL SHEETS
R-2518B	34445.1.1	2	187

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
GEOTECHNICAL UNIT

SUBSURFACE INVESTIGATION

SOIL AND ROCK LEGEND, TERMS, SYMBOLS, AND ABBREVIATIONS

SOIL DESCRIPTION

SOIL IS CONSIDERED TO BE THE UNCONSOLIDATED, SEMI-CONSOLIDATED OR WEATHERED EARTH MATERIALS WHICH CAN BE PENETRATED WITH A CONTINUOUS FLIGHT POWER AUGER, AND WHICH YIELDS LESS THAN 100 BLOWS ACCORDING TO STANDARD PENETRATION TEST (ASTM D-1586). SOIL CLASSIFICATION IS BASED ON THE AASHTO SYSTEM AND BASIC DESCRIPTIONS GENERALLY SHALL INCLUDE: CONSISTENCY, COLOR, TEXTURE, MOISTURE, AASHTO CLASSIFICATION AND OTHER PERTINENT FACTORS, SUCH AS, MINERALOGICAL COMPOSITION, ANGULARITY STRUCTURE, PLASTICITY, ETC. 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 #40 #200	50 MX 30 MX 15 MX	50 MX 25 MX	51 MN 10 MX	35 MX	35 MX	35 MX	35 MX	36 MN	36 MN	36 MN	36 MN	GRANULAR SOILS	SILT-CLAY SOILS	MUCK, PEAT
LIQUID LIMIT	6 MX		N.P.	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
PLASTIC INDEX				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 A SUBGRADE	EXCELLENT TO GOOD							FAIR TO POOR				FAIR TO POOR	POOR	UNSUITABLE

P.I. OF A-7-5 ≤ L.L. - 30 ; P.I. OF A-7-6 > L.L. - 30

CONSISTENCY OR DENSENESS

PRIMARY SOIL TYPE	COMPACTNESS OR CONSISTENCY	RANGE OF STANDARD PENETRATION RESISTENCE (BLOWS)	RANGE OF UNCONFINED COMPRESSIVE STRENGTH (kN/m^2)
GENERALLY GRANULAR MATERIAL	VERY LOOSE LOOSE MEDIUM DENSE DENSE VERY DENSE	<4 4 TO 10 10 TO 30 30 TO 50 >50	N/A
GENERALLY SILT-CLAY MATERIAL	VERY SOFT SOFT MEDIUM STIFF STIFF VERY STIFF HARD	<2 2 TO 4 4 TO 8 8 TO 15 15 TO 30 >30	<25 25 TO 50 50 TO 100 100 TO 200 200 TO 400 >400

TEXTURE OR GRAIN SIZE

U.S. STD. SIEVE SIZE	4	10	40	60	200	270
OPENING (MM)	4.76	2.0	0.42	0.25	0.075	0.053

BOULDER	COBBLE	GRAVEL	COARSE SAND	FINE SAND	SILT	CLAY

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
LL — LIQUID LIMIT		
PLASTIC RANGE (PI)	- WET - (W)	SEMISOLID; REQUIRES DRYING TO ATTAIN OPTIMUM MOISTURE
PL — PLASTIC LIMIT		
OM — OPTIMUM MOISTURE	- MOIST - (M)	SOLID; AT OR NEAR OPTIMUM MOISTURE
SL — SHRINKAGE LIMIT		
	- DRY - (D)	REQUIRES ADDITIONAL WATER TO ATTAIN OPTIMUM MOISTURE

PLASTICITY

	PLASTICITY INDEX	DRY STRENGTH
NONPLASTIC	0-5	VERY LOW
LOW PLASTICITY	6-15	SLIGHT
MED. PLASTICITY	16-25	MEDIUM
HIGH PLASTICITY	26 OR MORE	HIGH

COLOR

DESCRIPTIONS MAY INCLUDE COLOR OR COLOR COMBINATIONS (TAN, RED, YEL-BRN, BLUE-GRAY) MODIFIERS SUCH AS LIGHT, DARK, MOTTLED, STREAKED, ETC. ARE USED TO DESCRIBE APPEARANCE.

GRADATION

WELL GRADED- INDICATES A GOOD REPRESENTATION OF PARTICLE SIZES FROM FINE TO COARSE.
UNIFORM- INDICATES THAT SOIL PARTICLES ARE ALL APPROXIMATELY THE SAME SIZE. (ALSO POORLY GRADED)
GAP-GRADED- INDICATES A MIXTURE OF UNIFORM PARTICLES OF TWO OR MORE SIZES.

ANGULARITY OF GRAINS

THE ANGULARITY OR ROUNDNESS OF SOIL GRAINS ARE 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 WHENEVER THEY ARE CONSIDERED OF SIGNIFICANCE.

COMPRESSIBILITY

SLIGHTLY COMPRESSIBLE	LIQUID LIMIT LESS THAN 30
MODERATELY COMPRESSIBLE	LIQUID LIMIT 31-50
HIGHLY COMPRESSIBLE	LIQUID LIMIT GREATER THAN 50

ROCK DESCRIPTION

IN THE BROADEST MEANING, HARD ROCK IS CONSIDERED THAT MATERIAL WHICH CANNOT BE SAMPLED BY CONVENTIONAL SOIL SAMPLING TOOLS OR TECHNIQUES. THE BOUNDARY BETWEEN SOIL AND ROCK IS ARBITRARY. TRANSITION BETWEEN SOIL AND ROCK IS OFTEN REPRESENTED BY A ZONE OF "WEATHERED ROCK". FOR THE PURPOSE OF THIS INVESTIGATION, THESE MATERIALS ARE DIVIDED AS FOLLOWS:

WEATHERED ROCK (SWR) (HWR)		SOFT WEATHERED ROCK	MATERIAL THAT CAN BE PENETRATED WITH SOME DIFFICULTY USING POWER AUGERS AND YIELDS SPT VALUES > 100 BLOWS BUT < SPT REFUSAL
		HARD WEATHERED ROCK	MATERIAL THAT CAN BE PENETRATED WITH GREAT DIFFICULTY USING POWER AUGERS AND YIELDS SPT REFUSAL.*
HARD ROCK (HR)	CORED ROCK	INFERRED ROCK LINE**	MATERIAL THAT CANNOT BE PENETRATED BY POWER AUGERS, EXCEPT IN THIN LEDGES, AND REQUIRES ROCK CORING TOOLS FOR OBTAINING A SAMPLE.

*SPT REFUSAL ≤2.5cm OF PENETRATION PER 50 BLOWS.

**AN INFERRED ROCK LINE INDICATES THE LEVEL AT WHICH AUGERS COULD NO LONGER PENETRATE. THE HARD ROCK SYMBOL IS SHOWN WHEN ROCK IS CORED AND ONLY TO THAT DEPTH CORED. A DESCRIPTION OF ROCK IS GIVEN INCLUDING:

CORE RECOVERY (REC.)- TOTAL LENGTH OF ROCK RECOVERED IN THE CORE BARREL DIVIDED BY THE TOTAL LENGTH OF THE CORE RUN TIMES 100%.

ROCK QUALITY DESIGNATION (ROD)- TOTAL LENGTH OF SOUND ROCK SEGMENTS RECOVERED THAT ARE LONGER THAN OR EQUAL TO 0.1m DIVIDED BY THE TOTAL LENGTH OF THE CORE RUN TIMES 100%.

GROUND WATER

- WATER LEVEL IN BORE HOLE IMMEDIATELY AFTER DRILLING.
- STATIC WATER LEVEL AFTER_____HOURS.
- PERCHED WATER, SATURATED ZONE OR WATER BEARING STRATA
- SPRING OR SEEPAGE

MISCELLANEOUS SYMBOLS AND ABBREVIATIONS

- ROADWAY EMBANKMENT WITH SOIL DESCRIPTION
- SOIL SYMBOL
- ARTIFICIAL FILL OTHER THAN ROADWAY EMBANKMENTS
- INFERRED SOIL BOUNDARIES
- ALLUVIAL/RESIDUAL BOUNDARIES
- 25° DIP DIRECTION AND DIP OF STRUCTURES
- APPARENT DIP (NORMAL TO_____)
- SPT / DPT / VST TEST BORING
- AUGER BORING
- CORE BORING
- MW MONITORING WELL
- PIEZOMETER INSTALLATION
- SLOPE INDICATOR INSTALLATION
- SPT N-COUNT

SAMPLE DESIGNATIONS
S- BULK SAMPLE
SS- SPLIT SPOON SAMPLE
ST- SHELBY TUBE SAMPLE
RS- ROCK SAMPLE
●- SOUNDING ROD

EQUIPMENT USED ON SUBJECT PROJECT

DRILL UNITS:
- [ ] MOBILE B
- [ ] BK-51
- [X] CME-45
- [X] CME-550
- [ ] PORTABLE HOIST
- [ ] OTHER _____
- [ ] OTHER _____

AUGER TOOLS:
- [ ] 6" (152 mm) CONTINUOUS FLIGHT
- [X] 8" (203 mm) HOLLOW AUGERS
- [ ] HARD FACED FINGER BITS
- [ ] TUNG. - CARBIDE INSERTS
- [ ] CLAY BITS

OTHER:

HAMMER TYPE:
- [X] AUTOMATIC
- [ ] MANUAL

CORE BORING TOOLS:
- [ ] -AX
- [ ] -BX
- [ ] -NX

HAND TOOLS:
- [ ] POST HOLE DIGGER
- [ ] HAND AUGER
- [ ] SOUNDING ROD
- [ ] VANE SHEAR TEST

TERMS AND DEFINITIONS

ALLUVIUM (ALLUV.) - SOILS WHICH HAVE BEEN TRANSPORTED BY WATER.
APPARENT DIP - THE DIP OF ROCK STRATA NOT PERPENDICULAR TO STRIKE.
AQUIFER - A WATER BEARING FORMATION OR STRATA.
AUGER REFUSAL (A.R.)- POINT AT WHICH POWER AUGERS WILL NOT PENETRATE.
BEDDED - SOIL OR ROCK LYING IN A POSITION ESSENTIALLY PARALLEL.
BEDROCK - ROCK OF RELATIVELY GREAT THICKNESS AND EXTENT IN ITS ORIGINAL LOCATION.
CALCAREOUS (CALC.) - SOILS WHICH CONTAIN APPRECIABLE AMOUNTS OF CALCIUM CARBONATE.
COHESIVE SOIL - A SOIL THAT WHEN UNCONFINED HAS CONSIDERABLE DRY STRENGTH AND SIGNIFICANT COHESION WHEN SUBMERGED.
COLLUVIUM - ROCK FRAGMENTS MIXED WITH SOIL DEPOSITED BY GRAVITY ON SLOPE OR AT BOTTOM OF SLOPE.
CORE RECOVERY (% REC.) - TOTAL LENGTH OF ALL ROCK DIVIDED BY TOTAL LENGTH OF CORE RUN AND EXPRESSED AS A PERCENTAGE.
COQUINA - A ROCK TYPE COMPOSED ESSENTIALLY OF MARINE SHELLS CEMENTED BY CALCIUM CARBONATE.
DIKE - IGNEOUS ROCK INTRUSION WHICH IS NARROW COMPARED WITH ITS OTHER DIMENSIONS.
DIP - THE ANGLE BETWEEN A BEDDING PLANE, JOINT PLANE OR FAULT PLANE AND THE HORIZONTAL, MEASURED PERPENDICULAR TO THE STRIKE.
DUMPS - UNCOVERED DEPOSITS OF WASTE MATERIAL SUCH AS WOOD, MASONRY DEBRIS OR GARBAGE.
FAULT - A BREAK IN THE CONTINUITY OF A BODY OF ROCK, ATTENDED BY A MOVEMENT ON EITHER OR BOTH SIDES OF THE BREAK.
FINES - PORTIONS OF A SOIL FINER THAN NO. 200 U.S. STANDARD SIEVE.
FISSILITY OR FISSILE - A PROPERTY OF SPLITTING EASILY ALONG CLOSELY SPACED PARALLEL PLANES.
FLOAT - ROCK FRAGMENTS ON SURFACE NEAR THEIR ORIGINAL POSITION AND DISLODGED FROM PARENT MATERIAL.
FLOODPLAIN - LAND BORDERING A STREAM, BUILT OF SEDIMENTS DEPOSITED BY THE STREAM.
FORMATION - A MAPPABLE UNIT THAT CAN BE RECOGNIZED AND TRACED IN THE FIELD.
FRACTURE - A CRACK LARGE ENOUGH TO BE VISIBLE TO THE UNAIDED EYE.
FRIABLE - EASY TO BREAK OR CRUMBLE.
GRANULAR MATERIAL - SOIL THAT WHEN UNCONFINED HAS LITTLE OR NO DRY STRENGTH AND HAS LITTLE OR NO COHESION WHEN SUBMERGED.
GROUNDWATER (G.W.) - WATER THAT IS FREE TO MOVE THROUGH SOIL MASS UNDER THE INFLUENCE OF GRAVITY.
GROUNDWATER LEVEL - LEVEL OF WATER WITH RESPECT TO EXISTING GROUND SURFACE.
HARDPAN - A GENERAL TERM USED TO DESCRIBE A HARD CEMENTED SOIL LAYER WHICH DOES NOT SOFTEN WHEN WET.
INDURATED - EARTH MATERIAL HARDENED BY HEAT, PRESSURE OR CEMENTATION.
INTERBEDDED - ALTERNATING LENSES OR LAYERS OF SOIL AND/OR ROCK MATERIALS.
JOINT - FRACTURE IN ROCK ALONG WHICH NO APPRECIABLE MOVEMENT HAS OCCURRED.
LAMINATED - VERY THIN ALTERNATING LAYERS LESS THAN 1cm.
LAYER - SUBJECT MATERIAL GREATER THAN 1cm IN THICKNESS.
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.
MARL - A NON-INDURATED, CALCAREOUS DEPOSIT OF CLAYS, SILTS AND SANDS, OFTEN CONTAINING SHELLS.
MICACEOUS SOIL (MIC.) - A SOIL OR ROCK TYPE CONTAINING AN APPRECIABLE AMOUNT OF MICA.
MUCK (MK.) - A HIGHLY ORGANIC SOIL OF VERY SOFT CONSISTENCY, GENERALLY FOUND ON TIDAL FLATS, LAKE OR STREAM FLOODPLAINS.
PEAT (PT) - A FIBROUS MASS OF ORGANIC MATTER IN VARIOUS STAGES OF DECOMPOSITION.
PERCHED WATER - WATER MAINTAINED ABOVE THE NORMAL GROUND WATER LEVEL BY THE PRESENCE OF AN INTERVENING IMPERVIOUS STRATUM.
RESIDUAL SOIL - SOIL FORMED IN PLACE BY THE WEATHERING OF ROCK.
ROCK - SEE LEGEND
ROCK QUALITY DESIGNATION (R.Q.D.) - A MEASURE OF ROCK QUALITY DESCRIBED BY: TOTAL LENGTH OF ROCK SEGMENTS EQUAL TO OR GREATER THAN 0.1 METER DIVIDED BY THE TOTAL LENGTH OF CORE RUN EXPRESSED AS A PERCENTAGE.
SANITARY LANDFILLS - COMPACTED AND/OR COVERED LAYERS OF SOIL AND WASTE PRODUCTS.
SAPROLITE (SAP.) - RESIDUAL SOIL WHICH RETAINS THE RELIC STRUCTURE OR FABRIC OF THE PARENT ROCK.
SLICKENSIDE - POLISHED AND STRIATED SURFACE THAT RESULTS FROM FRICTION ALONG A FAULT OR SLIP PLAIN.
SILL - AN IGNEOUS SHEET OF INTRUSIVE ROCK WHOSE THICKNESS IS SLIGHT COMPARED TO ITS LATERAL EXTENT.
SOME - PRESENCE OF 5% TO 30% OF SUBJECT MATERIAL.
STANDARD PENETRATION TEST (PENETRATION RESISTANCE) (SPT) - NUMBER OF BLOWS (N) OF A 63.5 kg HAMMER FALLING 0.76 METERS REQUIRED TO PRODUCE A PENETRATION OF 30 cm INTO SOIL WITH A 5 cm OUTSIDE DIAMETER SPLIT SPOON SAMPLER. SPT REFUSAL IS PENETRATION RESISTANCE OF LESS THAN 2.5 cm WITH 50 BLOWS.
STRIKE - THE DIRECTION OR BEARING OF A HORIZONTAL LINE IN THE PLANE OF AN INCLINED STRATUM, JOINT, FAULT OR OTHER STRUCTURAL PLANE.
SUBGRADE - THE SOIL PREPARED TO SUPPORT A STRUCTURE OR A PAVEMENT SYSTEM.
TOPSOIL (T.S.) - SURFACE SOILS USUALLY CONTAINING ORGANIC MATTER.
TRACE - PRESENCE OF LESS THAN 5% OF SUBJECT MATERIAL.

ABBREVIATIONS

BLDR. - BOULDER	PL - PLASTIC LIMIT
CL. - CLAY	PI - PLASTICITY INDEX
COB. - COBBLE	n - POROSITY
CSE. - COARSE	SD. - SAND
EST. - ESTIMATED	SAT. - SATURATED
F. - FINE	SL. - SILT, SILTY
FOSS. - FOSSILIFEROUS	SLI. - SLIGHTLY
FRAC. - FRACTURED	G_s - SPECIFIC GRAVITY
GR. - GRAVEL	qu - UNCONFINED COMPRESSIVE STRENGTH
LL - LIQUID LIMIT	γ - UNIT WEIGHT (WET UNIT WEIGHT)
MED. - MEDIUM	γ_d - DRY UNIT WEIGHT
W - MOISTURE CONTENT	γ_{SAT} - SATURATED UNIT WEIGHT
MOT. - MOTTLED	e - VOID RATIO
OM - OPTIMUM MOISTURE	V. - VERY
ORG. - ORGANIC	

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ADDITIONAL INFORMATION MAY BE AVAILABLE, INCLUDING, BUT NOT LIMITED TO THE FOLLOWING:

FIELD BORING LOGS
ROCK CORES
SOIL & ROCK TEST DATA
SUBSURFACE REPORT

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NOTES:

REVISED NOVEMBER 11, 1998

9/09/99

TIP PROJECT: R-2518B

PROJECT: 34445.1.1

CONTRACT:

STATE OF NORTH CAROLINA
DIVISION OF HIGHWAYS

YANCEY COUNTY

STATE	STATE PROJECT REFERENCE NO.	SHEET NO.	TOTAL SHEETS
N.C.	R-2518B	2A	187

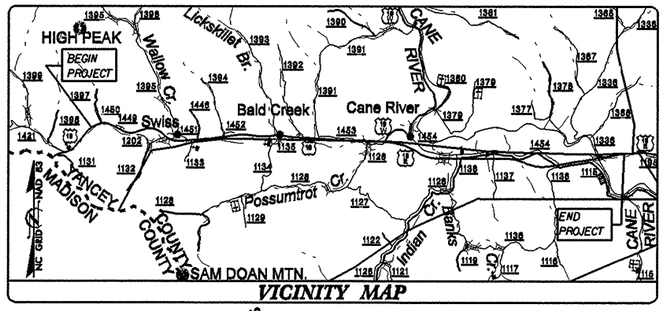
STATE PROJ. NO.	F.A. PROJ. NO.	DESCRIPTION
34445.1.1		PE

METRIC

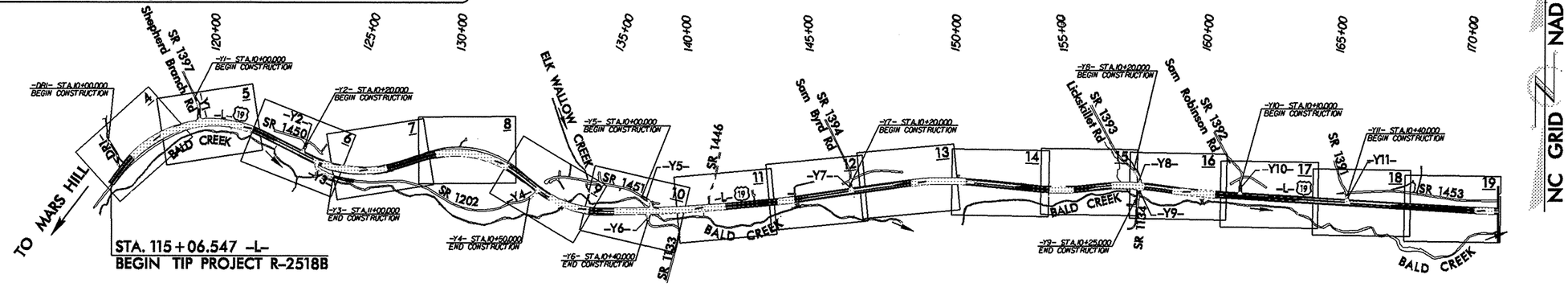
ALL DIMENSIONS IN THESE PLANS ARE IN METERS

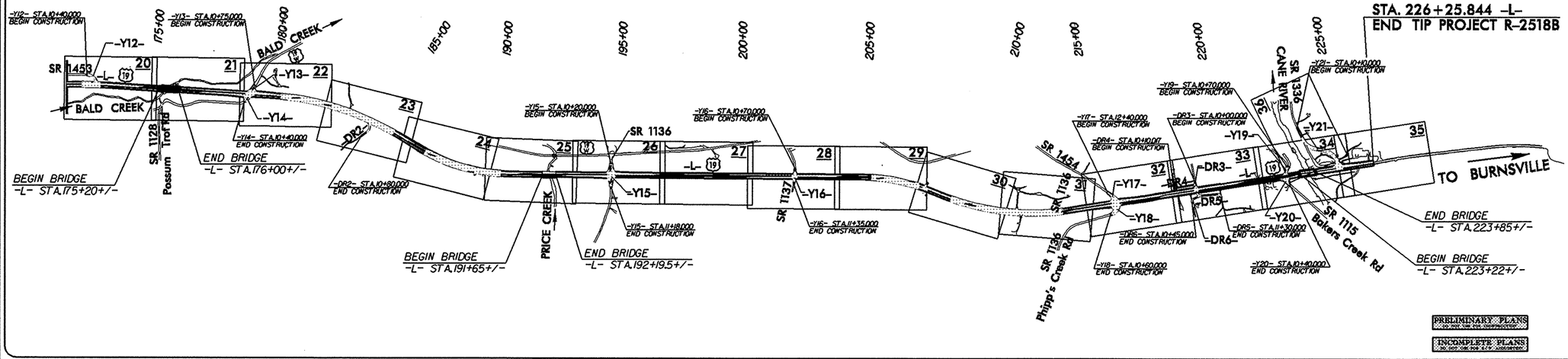
LOCATION: *US 19 FROM EAST OF THE YANCEY COUNTY LINE TO SR 1336*

TYPE OF WORK: *GRADING, DRAINAGE, WIDENING, PAVING, & STRUCTURES*



VICINITY MAP





PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

GRAPHIC SCALES

PLANS 5 0 10

PROFILE (HORIZONTAL) 5 0 10

PROFILE (VERTICAL) 1 0 2

DESIGN DATA

ADT 2005 = 17,200
ADT 2025 = 26,800
DHV = 10%
D = 60%
T = 10% *
V = 100 Km/h

* TTST= 6% DUALS= 4 %

PROJECT LENGTH

LENGTH ROADWAY TIP PROJECT R-2518B	=	10.921 km
LENGTH STRUCTURES TIP PROJECT R-2518B	=	0.198 km
TOTAL LENGTH OF TIP PROJECT R-2518B	=	11.119 km

PLANS PREPARED BY:	***PLANS PREPARED FOR:***
TGS ENGINEERS SUITE 141 975 WALNUT STREET CARY, NC 27511 PH (919) 319-8850	*DIVISION OF HIGHWAYS 1000 Birch Ridge Dr. Raleigh, NC 27610*
2002 STANDARD SPECIFICATIONS	
RIGHT OF WAY DATE: MARCH 19, 2004	CHARLES L. FLOWE, PE *PROJECT ENGINEER*
LETTING DATE: MARCH 21, 2006	W. CRAIG PARKER, PE *PROJECT DESIGN ENGINEER*
NCDOT CONTACT:	TERESA BRUTON, PE *PROJECT ENGINEER - DESIGN SERVICES*

HYDRAULICS ENGINEER

SIGNATURE: *P.E.*

ROADWAY DESIGN ENGINEER

SIGNATURE: *P.E.*

DIVISION OF HIGHWAYS STATE OF NORTH CAROLINA

P.E.
STATE DESIGN ENGINEER

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

APPROVED
DIVISION ADMINISTRATOR *DATE*

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
Michael F. Easley, GOVERNOR
P.O. BOX 25201, RALEIGH, N.C. 27611-5201
Lyndo Tippett, SECRETARY

24 June, 2005

STATE PROJECT: 34445.1.1, R-2518B

COUNTY: Yancey

DESCRIPTION: US 19 E from East of the Yancey Co. line to SR 1336

SUBJECT: Geotechnical Report – Inventory

PROJECT DESCRIPTION

The project consists of 11.12 km of roadway widening from 2 lane existing to 4 and 5 lanes. Widening is exclusively along existing with no realignment. Structures to be added or lengthened are seven 1-barrel culverts, four 3-barrel culverts, one 4-barrel culverts, one retaining wall and three bridge locations.

A geotechnical investigation was performed from May through August of 2004 utilizing a CME 550 ATV mounted drill and CME 45C Track mounted drill. Standard Penetration Tests were performed at selected locations along the alignment for embankments, cut slopes and retaining walls. Representative soil samples were obtained for visual classification in the field and for laboratory analysis by the Material and Tests Unit.

The following survey line was investigated:

Line	Stations
- L -	115+00 – 226+20

AREAS OF SPECIAL GEOTECHNICAL INTEREST

STRUCTURES

There is one retaining wall on the project. This is covered in a separate Structure report included in this document. Bridge structures are proposed at the time of this Inventory and exploratory borings only were conducted pending final plans. It is assumed that existing culverts will be lengthened. Borings and Standard Penetration Tests were done at these existing culvert locations:

Sta. 119+75	Sta. 124+40
Sta. 134+80	Sta. 138+20
Sta. 146+10	Sta. 150+60
Sta. 156+60	Sta. 162+50
Sta. 164+90	Sta. 185+00
Sta. 200+70	Sta. 205+80

Proposed new and additional bridge locations are located at the following Stations:

Sta. 175+20 – 176+00
Sta. 191+65 – 192+20
Sta. 223+20 – 223+85

POTENTIALLY UNSUITABLE SUBSURFACE CONDITIONS

The project traverses many large flood plains with conditions described under Soil Properties. These may contain local lenses of non-plastic or saturated clays but not on a scale suitable for concern to the construction process in general or specific stability problems. Localized areas may exist that require shallow undercut, select backfill and/or fabric stabilization. These are not extensive areas of concern.

GROUNDWATER

Groundwater exists at the base flow level in alluviual areas. The majority of the fills will be constructed on this material which consists primarily of moderate strength sands and gravels. No plastic clays were discovered and groundwater should not contribute to fill instability. Groundwater was not encountered in the cut areas.

PHYSIOGRAPHY AND GEOLOGY

The project lies in moderately rolling terrain. It then enters a relatively broad valley from Stations 135+00 – 190+00 and reaches a maximum elevation of 800m at Sta. 213+00. From the start of the project to Station 180+00 it runs parallel to Bald Creek and is intersected by Price's Creek at Station 192+00 and the Cane River at Station 223+00.

The corridor has several businesses and residences but affects few properties since the Right-of-Way for widening was mostly purchased during the original improvement project in the late 1980's.

The project lies within gneissic and Ashe Formation rocks. These are categorized as muscovite-biotite geisses and biotite-hornblende poorly to moderately foliated. Rock structure is competent and it is important to note that all cut areas are widenings of

existing cuts which have proven stable over the past 20 years.

SOIL PROPERTIES

High mica content in the parent gneisses generates mostly silty material in all residual and saprolite soils in the project corridor.

Residual soils in cut areas tend to be silts, silty sands and clayey sands of moderate to high strength. Alluvial deposits are predominately non-plastic clays, silts and lenses of gravel and sandy gravel.

Cut areas consist of mostly silts, silty sands and clayey sands. Weathered rock horizons generally range from 1-3m. **Manganese oxide, MnO, filled joints are were encountered in soils throughout the project.**

All areas denoted on cross sections as "saprolite and weathered rock", or "weathered rock" may contain very weathered to slightly weathered rock that requires select ripping or blasting to excavate.

ROCK PROPERTIES

Rock exposed in cuts shows moderate foliation, weathering to some degree and is moderately jointed. The rock is generally severe to slightly weathered and not found in appreciable amounts except for the following stations:

127+00 – 128+00
135+40 – 136+40
157+60 – 159+80
162+60 – 164+00
187+00 – 188+40
195+40 – 196+40

Foliations generally dip 35-90^0 ESE with some dipslope for the left hand cuts on the project.

The volume of rock, the orientation of foliation, weathering and the degree of jointing as mapped in outcrop do not lend to efficient rock slope design so no coring was done, nor are rock slopes steeper than 1 ½:1 recommended for any cut area.

GROUNDWATER

Rainfall amounts were higher than average during the investigation of this project. Due to the highly jointed nature of the rock and the free draining soils in cut areas, groundwater was rarely encountered. The stream valleys and alluvial floodplains invariably have groundwater levels between 1 and 3m. No springs or known private wells were encountered. The areas where groundwater can uniformly be expected between 1 and 3m are:

Sta. 119+00 – 123+00 rt
Sta. 134+60 – 140+60 rt
Sta. 142+80 – 146+20 lt and rt
Sta. 150+00 – 163+00 lt and rt
Sta. 164+80 – 176+00 rt
Sta. 191+00 – 193+00 lt and rt
Sta. 204+80 – 208+00 lt and rt
Sta. 223+00 – 224+00 lt and rt

GEOTECHNICAL DESCRIPTIVE ANALYSIS

Stations 115+40 – 118+40

This section involves widening existing with small to moderate left hand cuts. Primary subsurface consists of A-4 sandy silts, loose to med. dense. Rock exists from 116+50 to 118+00 with overburden of med. dense saprolite to weathered rock.

Stations 118+40 – 125+00

This section involves mostly adding 1-5m of fill to widen over loose alluvial sands and gravels. The culvert at 119+70 lies on 4 – 5 m of alluvial material as does the culvert at 124+20.

Stations 125+00 – 136+80

Moderate to large sized cuts on left and right in med. dense to dense saprolite (A-4, A-2-4) grading into rock. Existing 1.5:1 cuts are dry and stable. Culvert extension at 135+00 to be founded on 3 – 4 m of loose to med. dense alluvium. The retaining wall from 126+50 – 127+30 will be founded on shot rock fill at a depth of 2 m.

Stations 136+80 – 151+40

This section is categorized by shallow fill over floodplain with a small left cut in saprolite, weathered rock and rock from 139+60 – 140+80. Culvert extensions at 138+00 and 146+00 will be founded in 2 – 4 m of loose sandy clay and sandy gravel alluvium. Fills will lie over loose to med. dense alluvium.

Stations 151+40 – 165+00

Section typified by widening with cuts on the left. Cuts range from sliver to large with most of the material ranging from dense saprolite to weathered rock and fresh rock. The culvert at 156+60 rests on 1m of loose alluvium on the left and 2.5 m on the right. The culvert extension at 162+80 is in 2.0 m of med. dense alluvium and the culvert at 164+90 rests on 2.0 m med. dense alluvium on the left and 1.0 m on the right.

Stations 165+00 – 180+00

Section characterized by minor fills over alluvial materials with a low cut in med. dense saprolite from 179+20 – 180+00. Preliminary borings were taken for two proposed bridges to replace the culvert at 175+00 – 176+00.

Stations 180+00 – 215+00

Long section of cut and fill delineated in this report because the project crosses into Ashe formation rocks. This more deeply weathered material provides moderate to large cuts in loose to dense saprolite. The only rock in this section occurs from 195+40 – 196+60 with rest in saprolite. Cuts will widen existing and typically range from 10 – 15 m high. Preliminary borings were advanced for a proposed second bridge deck at 192+00 with typical depths to rock on the order of 15 m. A culvert extension at 205+87 lt. Shows depth to saprolite at 2.5 m and the culvert extension at 207+40 shows 4.0 m of alluvim on rock.

Stations 215+00 – 226+00

No areas of Geotechnical concern through this section. The project enters more commercial and residential property with many intersections and driveways but little grading. Borings were taken for an additional two lane bridge section proposed at 223+22 – 223+85. These showed depths to weathered rock at 9.0 m.

Respectfully submitted,

Jody C. Kuhne

EARTHWORK BALANCE SHEET (FOR BASE PAVEMENT ALT.)

(CUBIC METERS)

PROJECT R-2518B **COUNTY** YANCEY **DATE** February 19, 2007 **COMP. BY:** SGM **SHEET** 3c **OF** 137 **SHEETS**

LINE	STATION	STATION	TOTAL EXCAV. (UNCL.)	ROCK EXCAV.	UNDERCUT EXCAV.	UNSUIT. EXCAV.	SUITABLE EXCAV.	TOTAL EMB.	ROCK EMB.	EARTH EMB.	EMB. + %	BORROW	ROCK	SUITABLE WASTE	UNSUIT. WASTE	TOTAL WASTE
-L- Left	115+06.547	125+00	173,950	17,568			156,382	15,373	12,811	0	12,811	0	4,757	156,382		161,139
-L- Right	115+06.547	125+00	11,105	1,215			9,890	2,956	1,215	1,498	2,938	0		8,167		8,167
-DR1-	10+50	11+19.427	1,453				1,453	13		13	15	0		1,438		1,438
-Y1-	10+30	10+93.222	226				226	961		961	1,105	879		0		0
-Y2-	10+20	10+43.454	42				42	3		3	3	0		39		39
-Y3-	10+10.541	11+10	109				109	264		264	304	195		0		0
SUBTOTALS:			186,885	18,783			168,102	19,570	14,026	2,739	17,176	1,074	4,757	166,026		170,783
-L- Left	125+00	135+00	46,741	1,991			44,750	7,442	1,991	5,053	7,802	0		38,939		38,939
-L- Right	125+00	135+00	134,428	59,137			75,291	2,240	1,867	0	1,867	0	57,270	75,291		132,561
-Y4-	10+09.950	10+50	11				11	85		85	98	87		0		0
SUBTOTALS:			181,180	61,128			120,052	9,767	3,858	5,138	9,767	87	57,270	114,230		171,500
-L- Left	135+00	145+00	11,010	168			10,842	11,208	168	11,006	12,825	1,815	0			
-L- Right	135+00	145+00	4,916	103			4,813	2,986	103	2,862	3,395	0	0	1,521		1,521
-Y5-	10+00	10+65.548	15				15	342		342	393	378				
-Y6-	10+10.294	10+50	65				65	9		9	10	0		55		55
SUBTOTALS:			16,006	271			15,735	14,545	271	14,219	16,623	2,193	0	1,576		1,576
-L- Left	145+00	155+00	8,165	1,127			7,038	14,613	1,127	13,261	16,377	8,212	0			
-L- Right	145+00	155+00	1,764				1,764	2,021		2,021	2,324	560		0		0
-Y7-	10+20	10+38.058	24				24	71		71	82	58		0		0
SUBTOTALS:			9,953	1,127			8,826	16,705	1,127	15,353	18,783	8,830	0	0		0
-L- Left	155+00	165+00	55,066	26,819			28,247	10,197	8,498	0	8,498	0	18,321	28,247		46,568
-L- Right	155+00	165+00	1,329				1,329	1,594		1,594	1,833	504		0		0
-Y8-	10+20	10+80.081	9				9	339		339	390	381		0		0
-Y9-	10+09.883	10+25	41				41	0		0	0	0		41		41
-Y10-	10+10	10+43.966	44				44	62		62	71	27		0		0
SUBTOTALS:			56,489	26,819			29,670	12,192	8,498	1,995	10,792	912	18,321	28,288		46,609
SHEET TOTALS:			450,513	108,128			342,385	72,779	27,780	39,444	73,141	13,096	80,348	310,120		390,468

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

EARTHWORK BALANCE SHEET (FOR BASE PAVEMENT ALT.)

(CUBIC METERS)

PROJECT R-2518B **COUNTY** YANCEY **DATE** February 19, 2007 **COMP. BY:** SGM

LINE	STATION	STATION	TOTAL EXCAV. (UNCL.)	ROCK EXCAV.	UNDERCUT EXCAV.	UNSUIT. EXCAV.	SUITABLE EXCAV.	TOTAL EMB.	ROCK EMB.	EARTH EMB.	EMB. + %	BORROW	ROCK	SUITABLE WASTE	UNSUIT. WASTE	TOTAL WASTE
-L- Left	165+00	175+30	698				698	16,453		16,453	18,921	18,223		0		0
-L- Right	165+00	175+30	1,213				1,213	2,757		2,757	3,171	1,958		0		0
BRIDGE OVER BALD CREEK																
-Y11-	10+40	10+61.851	34				34	30		30	35	1		0		0
-Y12-	10+40	10+94.826	8				8	400		400	460	452		0		0
SUBTOTALS:			1,953				1,953	19,640		19,640	22,587	20,634		0		0
-L- Left	175+74	186+00	9,990				9,990	2,141		2,141	2,462	0		7,528		7,528
-L- Right	175+74	186+00	60,924				60,924	34,542		34,542	39,723	0		21,201		21,201
-Y13-	10+75	11+06.723	142				142	66		66	76	0		66		66
-Y14-	10+09.867	10+90	2,193				2,193	64		64	74	0		2,119		2,119
-DR2-	10+09.879	10+80	12				12	635		635	730	718		0		0
SUBTOTALS:			73,261				73,261	37,448		37,448	43,065	718		30,914		30,914
-L- Left	186+00	191+65	995				995	639		639	735	0		260		260
-L- Right	186+00	191+65	64,339	7,611			56,728	23,097	7,611	13,964	23,670	0		40,669		40,669
BRIDGE OVER PRICE CREEK																
SUBTOTALS:			65,334	7,611			57,723	23,736	7,611	14,603	24,405	0		40,929		40,929
-L- Left	192+20	202+20	4,081				4,081	6,116		6,116	7,033	2,952		0		0
-L- Right	192+20	202+20	118,890	8,256			110,634	34,506	8,256	24,599	36,545	0		82,345		82,345
-Y15-	10+20	10+57.450	32				32	44		44	51	19		0		0
-Y15-	10+77.184	11+18	14				14	317		317	365	351		0		0
-Y16-	10+70	10+93.015	57				57	0		0	0	0		57		57
-Y16-	11+12.797	11+35	22				22	96		96	110	88		0		0
SUBTOTALS:			123,096	8,256			114,840	41,079	8,256	31,172	44,104	3,410		82,402		82,402
-L- Left	202+20	212+20	30,142				30,142	2,912		2,912	3,349	0		26,793		26,793
-L- Right	202+20	212+20	67,773				67,773	14,691		14,691	16,895	0		50,878		50,878
-DR9-	10+07	10+34.478	102				102	24		24	28	0		74		74
-DR10-	10+09.867	10+34	39				39	56		56	64	25		0		0
SUBTOTALS:			98,056				98,056	17,683	0	17,683	20,336	25		77,745		77,745
SHEET TOTALS:			361,700	15,867			345,833	139,586	15,867	120,546	154,497	24,787	0	231,990		231,990

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

EARTHWORK BALANCE SHEET (FOR ABC PAVEMENT ALT.)

(CUBIC METERS)

PROJECT R-2518B **COUNTY** YANCEY **DATE** February 19, 2007 **COMP. BY:** SGM **SHEET** 36 **OF** 187 **SHEETS**

3 OF 3

LINE	STATION	STATION	TOTAL EXCAV. (UNCL.)	ROCK EXCAV.	UNDERCUT EXCAV.	UNSUIT. EXCAV.	SUITABLE EXCAV.	TOTAL EMB.	ROCK EMB.	EARTH EMB.	EMB. + %	BORROW	ROCK	SUITABLE WASTE	UNSUIT. WASTE	TOTAL WASTE
-L- Left	212+20	223+22	52,644				52,644	7,029		7,029	8,083	0		44,561		44,561
-L- Right	212+20	223+22	19,100				19,100	1,816		1,816	2,088	0		17,012		17,012
BRIDGE OVER CANE RIVER																
-Y17-	12+40	12+91.900	1,470				1,470	179		179	206	0		1,264		1,264
-Y18-	10+09.867	10+60	96				96	73		73	84	0		12		12
-DR3-	10+00	10+24.573	21				21	4		4	5	0		16		16
-DR4-	10+10.017	10+96.732	225				225	104		104	120	0		105		105
-DR4-	11+02.131	11+84.926	110				110	143		143	164	54		0		0
-DR7-	10+00	10+83.899	53				53	0		0	0	0		53		53
-DR8-	10+04	10+25.400	133				133	8		8	9	0		124		124
-Y19-	10+70	11+00.481	23				23	17		17	20	0		3		3
-Y20-	10+09.867	10+40	119				119	0		0	0	0		119		119
SUBTOTALS:			73,994				73,994	9,373		9,373	10,779	54		63,269		63,269
-L- Left	223+85	226+25.844	301				301	1,530		1,530	1,760	1,459		0		0
-L- Right	223+85	226+25.844	60				60	360		360	414	354		0		0
-Y21-	10+10	12+62.807	20,535				20,535	600		600	690	0		19,845		19,845
SUBTOTALS:			20,896				20,896	2,490		2,490	2,864	1,813		19,845		19,845
SUMMARY TOTALS:			907,103	123,995			783,108	224,228	43,647	171,853	241,281	39,750	80,348	625,224		705,572
Est. Loss due to Clearing & Grubbing			-500				-500							-500		-500
Adjustment for Rock Waste Swell													16,070			16,070
Uncompacted Rock Waste													14,463			14,463
Waste In Lieu of Borrow												-39,750		-39,750		-39,750
GRAND TOTALS:			906,603	123,995			782,608	224,228	43,647	171,853	241,281	0	110,881	584,974		695,855
SAY:			**910,000**													**700,000**

Pavement Structure Volume = 26,237

Shoulder Borrow = 14,800

Contingency Undercut = 1,000

R-2518B Earthwork Computations.xls : Balance Card 3 (ABC)

3/26/2008 9:44 AM

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

EARTHWORK BALANCE SHEET (FOR ABC PAVEMENT ALT.)

(CUBIC METERS)

PROJECT R-2518B **COUNTY** YANCEY **DATE** February 19, 2007 **COMP. BY:** SGM

SHEET 3F **OF** 187 **SHEETS**

LINE	STATION	STATION	TOTAL EXCAV. (UNCL.)	ROCK EXCAV.	UNDERCUT EXCAV.	UNSUIT. EXCAV.	SUITABLE EXCAV.	TOTAL EMB.	ROCK EMB.	EARTH EMB.	EMB. + %	BORROW	ROCK	SUITABLE WASTE	UNSUIT. WASTE	TOTAL WASTE
-L- Left	115+06.547	125+00	173,429	17,353			156,076	16,306	13,588	0	13,588	0	3,765	156,076		159,841
-L- Right	115+06.547	125+00	10,626	1,144			9,482	3,116	1,144	1,743	3,148	0		7,478		7,478
-DR1-	10+50	11+19.427	1,453				1,453	13		13	15	0		1,438		1,438
-Y1-	10+30	10+93.222	226				226	961		961	1,105	879		0		0
-Y2-	10+20	10+43.454	42				42	3		3	3	0		39		39
-Y3-	10+10.541	11+10	109				109	264		264	304	195		0		0
SUBTOTALS:			185,885	18,497			167,388	20,663	14,732	2,984	18,163	1,074	3,765	165,031		168,796
-L- Left	125+00	135+00	46,091	1,914			44,177	7,921	1,914	5,624	8,382	0		37,709		37,709
-L- Right	125+00	135+00	133,556	58,792			74,764	2,535	2,113	0	2,113	0	56,679	74,764		131,443
-Y4-	10+09.950	10+50	11				11	85		85	98	87		0		0
SUBTOTALS:			179,658	60,706			118,952	10,541	4,027	5,709	10,593	87	56,679	112,473		169,152
-L- Left	135+00	145+00	10,591	168			10,423	12,298	168	12,096	14,078	3,487	0			
-L- Right	135+00	145+00	4,861	103			4,758	3,180	103	3,056	3,618	0	0	1,243		1,243
-Y5-	10+00	10+65.548	15				15	342		342	393	378		0		0
-Y6-	10+10.294	10+50	65				65	9		9	10	0		55		55
SUBTOTALS:			15,532	271			15,261	15,829	271	15,503	18,099	3,865	0	1,298		1,298
-L- Left	145+00	155+00	7,785	1,111			6,674	15,853	1,111	14,520	17,809	10,024	0			
-L- Right	145+00	155+00	1,758				1,758	2,042		2,042	2,348	590		0		0
-Y7-	10+20	10+38.058	24				24	71		71	82	58		0		0
SUBTOTALS:			9,567	1,111			8,456	17,966	1,111	16,633	20,239	10,672	0	0		0
-L- Left	155+00	165+00	54,646	26,646			28,000	11,392	9,493	0	9,493	0	17,153	28,000		45,153
-L- Right	155+00	165+00	1,322				1,322	1,622		1,622	1,865	543		0		0
-Y8-	10+20	10+80.081	9				9	339		339	390	381		0		0
-Y9-	10+09.883	10+25	41				41	0		0	0	0		41		41
-Y10-	10+10	10+43.966	44				44	62		62	71	27		0		0
SUBTOTALS:			56,062	26,646			29,416	13,415	9,493	2,023	11,819	951	17,153	28,041		45,194
SHEET TOTALS:			446,704	107,231			339,473	78,414	29,634	42,852	78,913	16,649	77,597	306,843		384,440

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

EARTHWORK BALANCE SHEET (FOR ABC PAVEMENT ALT.)

(CUBIC METERS)

PROJECT R-2518B **COUNTY** YANCEY **DATE** February 19, 2007 **COMP. BY:** SGM

LINE	STATION	STATION	TOTAL EXCAV. (UNCL.)	ROCK EXCAV.	UNDERCUT EXCAV.	UNSUIT. EXCAV.	SUITABLE EXCAV.	TOTAL EMB.	ROCK EMB.	EARTH EMB.	EMB. + %	BORROW	ROCK	SUITABLE WASTE	UNSUIT. WASTE	TOTAL WASTE
-L- Left	165+00	175+30	589				589	17,619		17,619	20,262	19,673		0		0
-L- Right	165+00	175+30	1,141				1,141	2,978		2,978	3,425	2,284		0		0
BRIDGE OVER BALD CREEK																
-Y11-	10+40	10+61.851	34				34	30		30	35	1		0		0
-Y12-	10+40	10+94.826	8				8	400		400	460	452		0		0
SUBTOTALS:			1,772				1,772	21,027		21,027	24,182	22,410		0		0
-L- Left	175+74	186+00	9,950				9,950	2,537		2,537	2,918	0		7,032		7,032
-L- Right	175+74	186+00	60,262				60,262	35,518		35,518	40,846	0		19,416		19,416
-Y13-	10+75	11+06.723	142				142	66		66	76	0		66		66
-Y14-	10+09.867	10+90	2,193				2,193	64		64	74	0		2,119		2,119
-DR2-	10+09.879	10+80	12				12	635		635	730	718		0		0
SUBTOTALS:			72,559				72,559	38,820		38,820	44,644	718		28,633		28,633
-L- Left	186+00	191+65	869				869	879		879	1,011	142		0		0
-L- Right	186+00	191+65	63,959	7,462			56,497	23,600	7,462	14,646	24,305	0		39,654		39,654
BRIDGE OVER PRICE CREEK																
SUBTOTALS:			64,828	7,462			57,366	24,479	7,462	15,525	25,316	142		39,654		39,654
-L- Left	192+20	202+20	4,023				4,023	6,149		6,149	7,071	3,048		0		0
-L- Right	192+20	202+20	118,375	8,154			110,221	35,558	8,154	25,773	37,793	0		80,582		80,582
-Y15-	10+20	10+57.450	32				32	44		44	51	19		0		0
-Y15-	10+77.184	11+18	14				14	317		317	365	351		0		0
-Y16-	10+70	10+93.015	57				57	0		0	0	0		57		57
-Y16-	11+12.797	11+35	22				22	96		96	110	88		0		0
SUBTOTALS:			122,523	8,154			114,369	42,164	8,154	32,379	45,390	3,506		80,639		80,639
-L- Left	202+20	212+20	29,991				29,991	3,597		3,597	4,137	0		25,854		25,854
-L- Right	202+20	212+20	67,290				67,290	15,730		15,730	18,090	0		49,200		49,200
-DR9-	10+07	10+34.478	102				102	24		24	28	0		74		74
-DR10-	10+09.867	10+34	39				39	56		56	64	25		0		0
SUBTOTALS:			97,422				97,422	19,407		19,407	22,319	25		75,128		75,128
SHEET TOTALS:			359,104	15,616			343,488	145,897	15,616	127,158	161,851	26,801		224,054		224,054

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

EARTHWORK BALANCE SHEET (FOR BASE PAVEMENT ALT.)

(CUBIC METERS)

PROJECT R-2518B **COUNTY** YANCEY **DATE** February 19, 2007 **COMP. BY:** SGM **SHEET** 31A **OF** 187 **SHEETS**

LINE	STATION	STATION	TOTAL EXCAV. (UNCL.)	ROCK EXCAV.	UNDERCUT EXCAV.	UNSUIT. EXCAV.	SUITABLE EXCAV.	TOTAL EMB.	ROCK EMB.	EARTH EMB.	EMB. + %	BORROW	ROCK	SUITABLE WASTE	UNSUIT. WASTE	TOTAL WASTE
-L- Left	212+20	223+22	52,391				52,391	8,085		8,085	9,298	0		43,093		43,093
-L- Right	212+20	223+22	18,470				18,470	2,202		2,202	2,532	0		15,938		15,938
BRIDGE OVER CANE RIVER																
-Y17-	12+40	12+91.900	1,470				1,470	179		179	206	0		1,264		1,264
-Y18-	10+09.867	10+60	96				96	73		73	84	0		12		12
-DR3-	10+00	10+24.573	21				21	4		4	5	0		16		16
-DR4-	10+10.017	10+96.732	225				225	104		104	120	0		105		105
-DR4-	11+02.131	11+84.926	110				110	143		143	164	54		0		0
-DR7-	10+00	10+83.899	53				53	0		0	0	0		53		53
-DR8-	10+04	10+25.400	133				133	8		8	9	0		124		124
-Y19-	10+70	11+00.481	23				23	17		17	20	0		3		3
-Y20-	10+09.867	10+40	119				119	0		0	0	0		119		119
SUBTOTALS:			73,111				73,111	10,815		10,815	12,438	54		60,727		60,727
-L- Left	223+85	226+25.844	212				212	1,486		1,486	1,709	1,497		0		0
-L- Right	223+85	226+25.844	112				112	314		314	361	249		0		0
-Y21-	10+10	12+62.807	20,535				20,535	600		600	690	0		19,845		19,845
SUBTOTALS:			20,859				20,859	2,400		2,400	2,760	1,746		19,845		19,845
SUMMARY TOTALS:			899,778	122,847			776,931	237,526	45,250	183,225	255,962	45,250	77,597	611,469	0	689,066
Est. Loss due to Clearing & Grubbing			-500				-500							-500		-500
Adjustment for Rock Waste Swell													15,519			15,519
Uncompacted Rock Waste													13,967			13,967
Waste In Lieu of Borrow												-45,250		-45,250		-45,250
GRAND TOTALS:			899,278	122,847			776,431	237,526	45,250	183,225	255,962	0	107,083	565,719		672,802
SAY:			**903,000**													**676,000**

Pavement Structure Volume = 18,911

Shoulder Borrow = 11,700

Contingency Undercut = 1,000

NOTE: EARTHWORK QUANTITIES ARE CALCULATED BY THE ROADWAY DESIGN UNIT. THESE EARTHWORK QUANTITIES ARE BASED IN PART ON SUBSURFACE DATA PROVIDED BY THE GEOTECHNICAL ENGINEERING UNIT.

8/17/99

REVISIONS

METRIC	PROJECT REFERENCE NO.	SHEET NO.
5 0 10	R-2518B 34445.1.1	4 of 187
	R/W SHEET NO.	
CONST.REV.	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
R/W REV.	PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

-L-
PIs Sta 116+05.888
θs = 6° 24' 24.2"
Ls = 98.400
LT = 65.643
ST = 32.839

PI Sta 119+28.274
Δ = 66° 42' 34.6" (RT)
L = 512.293
T = 289.629
R = 440.000
SE = 0.08

-DRI-
PI Sta 10+10.636
Δ = 4° 02' 38.1" (LT)
L = 12.704
T = 6.355
R = 180.000
SE = 0.02

PI Sta 10+71.473
Δ = 30° 58' 57.0" (RT)
L = 7.570
T = 3.880
R = 14.000
SE = 0.02

PI Sta 11+07.266
Δ = 50° 40' 43.8" (LT)
L = 12.383
T = 6.630
R = 14.000
SE = 0.02

-DRI- PCSta.10+04.281
-DRI- POTSta.10+00.000
-DRI- PTSta.10+16.985
-DRI- PCSta.10+67.592
-DRI- PCSta.11+00.636
-DRI- PTSta.10+75.163
-DRI- PTSta.11+13.019
-L- POTSta.115+06.547
-L- TSSta.115+40.245
-DRI- POTSta.11+29.282 = -L- Sta.115+80.000
-L- SCSta.116+38.645

115+51
45 M LT

S 27° 44' 55.7" E
S 37° 47' 33.8" E
S 37° 49' 35.9" E
S 37° 29' 20.3" E
N 37° 20' 00.5" E

116
117
118

NAD 83

HTR
GR
ISFD
750mm CMP
2.9 CONC
3.0 CONC
900mm CMP
35BW
2SFD
WD DK
CONC
600mm CMP
WO
OW
GR
2SB W
150mm CMP
600mm CMP
1200mm WW & ISBW
750mm CMP
2.9 CONC
750mm CMP
1200mm WW & ISBW
ROCK
2.7 CONC HW
US 19 7.6 BST
900mm CMP
BALD CREEK

MATCHLINE -L- STA. 118+20.000 - SEE SHEET 5

27-MAY-2005 10:59

PROJECT REFERENCE NO.	SHEET NO.
R-2518B 34445JJ	5 of 187
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

METRIC

5 0 10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

8/17/99

-Y1-
PI Sta 10+30.933
Δ = 29° 31' 52.7" (RT)
L = 30.925
T = 15.814
R = 60.000
SE = 0.02

-Y1- POT Sta. 10+00.000

-Y1- PC Sta. 10+15.118

-Y1- PT Sta. 10+46.043

-Y1- S 10° 03' 54.3" W

S 29° 27' 58.8" E

SHEPHERD BRANCH RD

SR 1391

HTR

S

B

119

120

121

1500mm CMP

GR

ANTENNA

900mm CONC

W

ISFD

450mm CONC

600mm CMP

2-1700mm CMP

119+66
15 M LT

5.8 CONC HW
5.5 CONC HW

1500mm WW & ISBW

3SBW

119+74
16 M RT

US 19 BZ BST

-Y1- POT Sta. 11+03.178 =
-L- POC Sta. 119+35.000

BALD CREEK

4SBW

SOIL

1500mm CMP

-L-
PI Sta 119+28.274
Δ = 66° 42' 34.6" (RT)
L = 512.293
T = 289.629
R = 440.000
SE = 0.08

-L- CS Sta. 121+50.939

MATCHLINE -L- STA. 118+20.000 – SEE SHEET 4

MATCHLINE -L- STA. 121+60.000 – SEE SHEET 6

USER: bbs
DGN: ...
DATE: 8/17/2002 7:44:21 AM

PROJECT REFERENCE NO.	SHEET NO.
R-2518B 34445JJ	6 OF 187
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

5 0 10

REVISIONS

8/17/99

MATCHLINE -L- STA. 121+60.000 – SEE SHEET 5

MATCHLINE -L- STA. 125+20.000 – SEE SHEET 7

NAD 83

122

123

124

125

45SBW

35SBW

45BW

900mm WW

900mm WD RAIL

ISBKD

CONC

HTR

DK

2S ELEC

GATE

B

S

1200mm WW & ISBW

S 28° 12' 38" W

-L2-

10

3.7 CONC HW
2-1.4 CONC WW

3.35x1.21 CONC

3.7 CONC HW
0.8 CONC WW
1.8 CONC WW

124+22
15 M LT

S 23° 30' 23" W

-L3-

MTL

BALD CREEK

WD

124+38
41 M RT

ABAND

4SBW

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8/17/23

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
34445.11 R-2518B	7 of 187
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

5 0 10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

NAD 83

-L-

PI Sta 125+84.331
Δ = 32° 39' 17.3" (LT)
L = 256.470
T = 131.823
R = 450.000
SE = 0.08

PIs Sta 127+41.816
θs = 6° 15' 51.6"
Ls = 98.400
LT = 65.641
ST = 32.837

PIs Sta 128+73.031
θs = 7° 02' 50.6"
Ls = 98.400
LT = 65.652
ST = 32.847

-Y3-

PI Sta 10+95.168
Δ = 26° 05' 44.3" (LT)
L = 126.650
T = 64.443
R = 278.074
SE = 0.07

126

127

128

MATCHLINE -L- STA. 125+20.000 - SEE SHEET 6

MATCHLINE -L- STA. 128+60.000 - SEE SHEET 8

ROCK

-L- CSSta. 127+08.979

-L- SRSSta. 128+07.379

1200mm WW & ISBW

PROPOSED EXPRESSWAY GUTTER

16.5m FULL LANE

PROP. MONO. CONC. ISLAND

15:1 TAPER

30m TAPER

REMOVE EXISTING GUARDRAIL

+01.400
BEG. CURB TRANSITION
SEE SHEET 2-D

+04.379
BEG. CURB TRANSITION
SEE SHEET 2-D

PROP. 450mm C&G

PROP. RAISED GRASS MEDIAN

PROP. 825mm C&G

127+30
7.5 M RT

+10.379
END CURB TRANSITION

CAT-1

BEGIN WALL
-L- STA. 126+50+/-

126+50
6.5 M RT

126+70
6.5 M RT

126+90
7 M RT

PROPOSED CONC. RET. WALL

END WALL
-L- STA. 127+30+/-

-Y3-

S 81° 58' 14.5" E

BALD CREEK

-Y3- PTSta. 11+57.376

-Y3- POTSta. 11+92.773

ISFD

APT

27-MAY-2008 10:48
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8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
34445JJ R-2518B	8 OF 189
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

METRIC

5 0 10

CONST.REV.

R/W REV.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

NAD 83

MATCHLINE -L- STA. 128+60.000 - SEE SHEET 7

MATCHLINE -L- STA. 132+00.000 - SEE SHEET 9

129

130

131

ROCK

ROCK

ISFD

DK

HTR

DK

GATE

BLK

1200mm WW & ISBW

1200mm WW & ISBW

1500mm CONC

600mm CMP

600mm CMP

900mm CMP

900mm CONC

US 19 7.5 BST

45BW

45BW

45BW

45BW

35BW & ELEC

35BW

6R

6R

W\LT

-L- SCSta.129+05.779

129+80
36 M RT

130+20
38 M RT

130+60
42 M RT

-L-

PIs Sta 128+73.031
Θs = 7° 02' 50.6"
Ls = 98.400
LT = 65.652
ST = 32.847

PI Sta 130+60.982
Δ = 42° 24' 47.6" (RT)
L = 296.100
T = 155.203
R = 400.000
SE = 0.08

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8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
34445.1.1 R-2518B	9 of 187
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

METRIC

5 0 10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

NAD 83

MATCHLINE -L- STA. 132+00.000 - SEE SHEET 8

MATCHLINE -L- STA. 135+40.000 - SEE SHEET 10

-L-
PI Sta 130+60.982
Δ = 42° 24' 47.6" (RT)
L = 296.100
T = 155.203
R = 400.000
SE = 0.08

PIs Sta 132+34.726
θs = 7° 02' 50.6"
Ls = 98.400
LT = 65.652
ST = 32.847

PIs Sta 133+65.931
θs = 7° 02' 50.6"
Ls = 98.400
LT = 65.652
ST = 32.847

PI Sta 134+83.280
Δ = 23° 53' 03.6" (LT)
L = 166.744
T = 84.601
R = 400.000
SE = 0.08

-Y4-
PI Sta 10+20.549
Δ = 10° 21' 58.7" (RT)
L = 40.985
T = 20.549
R = 226.531
SE = EXISTING

PI Sta 10+60.557
Δ = 22° 15' 25.8" (RT)
L = 38.650
T = 19.572
R = 99.494
SE = 0.02

-L- CSSta.132+01.879
-L- SRSSta.133+00.279
-Y4- PCCSta.10+40.985
-Y4- PTSta.10+79.635
-L- SCSta.133+98.679
-Y4- PCSta.10+00.000 = -L- POS Sta. 133+51.473
133+80 32 M LT
134+88 14 M LT

CEMETERY
W/LT
ISBKD
WO
2.5 BST
250mm CMP
64 BST
200mm CONC
SR 1451 64 BST
ELK WALLOW CREEK
133
134
135
W/LT
WO
3.5 BST
WD STEPS
2S HTR
WD DK
CONC
ISFD
S
G
2100mm WD
900mm CONC
1200mm WW & ISBW
1050mm CMP
1500mm CONC
MTL
3.0 BST
FUNNEL
10
US 19 7.9 BST
ROCK
450mm CMP
1800mm CONC
SR 1202 6.3 BST
359W
BALD CREEK
100mm WD WALL
HTR
S

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PROJECT REFERENCE NO.	SHEET NO.
34445.11 R-2518B	10 of 187
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

5 0 10

REVISIONS

8/17/99

-L-

PI Sta 134+83.280
Δ = 23° 53' 03.6" (LT)
L = 166.744
T = 84.601
R = 400.000
SE = 0.08

PIs Sta 136+00.712
θs = 0° 33' 47.5"
θs = 7° 02' 52.5"
Ls = 98.400
LT = 63.235
ST = 35.289

PI Sta 138+81.737
Δ = 4° 59' 27.8" (LT)
L = 435.552
T = 217.914
R = 5,000.000
SE = 0.08

-Y5-

PI Sta 10+49.012
Δ = 7° 45' 23.6" (RT)
L = 34.757
T = 20.256
R = 27.000
SE = 0.02

-Y5- POT Sta. 10+00.000

-Y5- PCSta. 10+28.756

-Y5- PTSta. 10+63.512

-L- POC Sta. 138+05.064 =
-Y5- POT Sta. 10+75.844 =
-Y6- POT Sta. 10+00.000

-L- SCSta. 136+63.823

-L- CSSta. 135+65.423

-Y6- PCSta. 10+32.762

-Y6- PCCSta. 10+71.021

-Y6- POT Sta. 11+22.664

-Y6- PTSta. 10+92.935

-Y6-

PI Sta 10+58.262
Δ = 96° 46' 05.2" (LT)
L = 38.259
T = 25.500
R = 22.653
SE = 0.05

PI Sta 10+82.036
Δ = 14° 23' 51.6" (LT)
L = 21.913
T = 11.015
R = 87.205
SE = EXISTING

MATCHLINE -L- STA. 135+60.000 – SEE SHEET 9

MATCHLINE -L- STA. 139+20.000 – SEE SHEET 11

SR 1395 SCRONCH CREEK RD

SR 1451 66 BST

SR 1133 6.0 BST

US 19 7.9 BST

150mm CURB

BST

GR

W/LT

300mm CMP

1200mm CMP

SOIL

CONC

2SAPT

ISBKD

COVERED DK

2SBK
MT. PLEASANT BAPTIST CHURCH

WD DK

1200mm CHL

1500mm

BALD CREEK

1200mm WW & ISBW

REMOVE EXISTING GUARDRAIL

4-3.4x2.7 CONC MTL

7.3 CONC HW
4.9 CONC WW
4.9 CONC WW

20.1 CONC HW
7.5 CONC WW
5.9 CONC WW

450mm CMP

ROCK

1750mm CONC

1850mm CONC

SPRING BOX

ISFD

ANTENNA

BLK STEPS

NAD 83

138+02
20 M LT

138+11
23 M RT

S 55° 09' 04.9" E

S 14° 36' 18.7" W

N 183° 26' 21.9" E

PROJECT REFERENCE NO.	SHEET NO.
34445JJ R-2518B	11 of 187
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

5 0 10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

REVISIONS

MATCHLINE -L- STA. 139+20.000 - SEE SHEET 10

MATCHLINE -L- STA. 142+80.000 - SEE SHEET 12

NAD 83

-L- PTSta.140+99.375

-L- TSSta.142+65.525

140+60
40 M LT

-L-
PI Sta 138+81.737
Δ = 4° 59' 27.8" (LT)
L = 435.552
T = 217.914
R = 5,000.000
SE = 0.02

-L- N 84° 38' 49.4" E

US 19 7.9 BST

SR 1446 GR

BALD CREEK

ABAND

MTL CANOPY

ISBKD

MTL CANOPY KENNEL

BLK BLOG

CONC

400mm ROCK WALL

WD DK

ISFD

G

S

W/LT

1200mm WW & ISBW

600mm CONC

450mm CONC

400mm CMP

3.7 CONC HW

600mm CMP

2100mm CHL

SOIL

BST

GR

F

C

27-MAY-2008 BSG
c:\projects\projects\r-2518b\roadway\r-2518b_rdy_pshl1.dgn

8/17/99

REVISIONS

27-MAY-2005 16:55
User: Wang, Kevin
Z:\projects\r-2518b\roadd\gn\r-2518b_rdy_pnl12.dgn

-L-

PIs Sta 142+90.125
Θs = 0° 31' 42.8"
Ls = 36.900
LT = 24.600
ST = 12.300

PI Sta 143+36.625
Δ = 1° 57' 33.4" (LT)
L = 68.392
T = 34.199
R = 2,000.000
SE = 0.03

PIs Sta 143+83.117
Θs = 0° 31' 42.8"
Ls = 36.900
LT = 24.600
ST = 12.300

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	12 of 197
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

METRIC

5 0 10

CONST.REV.

R/W REV.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

MATCHLINE -L- STA. 142+80.000 – SEE SHEET 11

MATCHLINE -L- STA. 146+40.000 – SEE SHEET 13

NAD 83

143 144 145 146

POND

SOIL

300mm CMP

-L- CS Sta.143+70.817

-L- SC Sta.143+02.425

-L- ST Sta.144+07.717

-Y7- POT Sta.10+00.000

-Y7- POT Sta.10+48.007
-L- POT Sta.145+93.603

N. 81° 37' 50.3" E.

S 1° 00' 15.8" E

30 BST

1200mm WW & ISBW

CEMETERY

GATE

BST

1200mm RCP

375mm CMP

450mm CMP

1350mm CMP

2SFD

5.4 BST

SR 1394

BIRD RD

10

L4 CONC WW
1.7 CONC WW
3.2 CONC HW

L5 CONC WW
1.9 CONC WW
3.2 CONC HW

8 CONC HW
146+10
11 M LT

5.6 BST

3.3 BST

1500mm CMP

2-4.2 CONC WW
1-4.1 CONC HW

4-3.4x2.7 CONC

BALD CREEK

2175mm x 1675mm CMP

GR

W/LT

800mm WD RAIL

600mm CMP

WD DK

½SFD

CONC

1200mm CONC

ISFD

2SFD

200mm BK WALL

W

8/01/99

REVISIONS

METRIC	PROJECT REFERENCE NO.	SHEET NO.
5 0 10	34445JJ R-2518B	13-F 18T
	R/W SHEET NO.	
CONST.REV.	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
R/W REV.	PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

MATCHLINE -L- STA. 146+40.000 – SEE SHEET 12

MATCHLINE -L- STA. 150+00.000 – SEE SHEET 14

NAD 83

N 81° 37' 50.3" E

SR 1425 6.3 BST

-L-

-L- TSSta.147+69.778

-L- SCSta.148+31.278

1200mm WW & ISBW

1500mm WW & ISBW

450mm CMP

600mm CMP

1500mm ROCK

3SBW

ISBW

W/LT

ROCK

SOIL

G

B

141

148

149

150

-L-

PIs Sta 148+10.780	PI Sta 149+38.927
θs = 1° 33' 33.0"	Δ = 10° 53' 01.1" (RT)
Ls = 61.500	L = 214.650
LT = 41.002	T = 107.649
ST = 20.501	R = 1,130.000
	SE = 0.05

21-MAY-2005 8:23
C:\Projects\roddesign\-2518b\proj\-2518b_rdy_pstl3.dgn

PROJECT REFERENCE NO.	SHEET NO.
34445JJ R-2518B	14 of 187
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

METRIC

5 0 10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

REVISIONS

8/17/99

MATCHLINE -L- STA. 150+00.000 – SEE SHEET 13

MATCHLINE -L- STA. 153+60.000 – SEE SHEET 15

NAD 83

151

152

153

HTR

ABAND

ISFD

WD

WD DK

GR

W

W/LT

ISBKD

S

SOIL

CONC

PLANTER

F

ROCK

150+67
12 M LT

4.4 CONC HW
2.1 CONC WW
1.2 CONC WW

23.15m x 15m CMP

10 BST

-L- TSSta.153+00.753

-L- S 84°22'02.6" E

US 19 8.5 BST

US 19 7.9 BST

-L- CSSta.150+45.928

-L- STSta.151+07.428

900mm CMP

450mm CMP

GATE

1500mm WW & ISBW

1200mm CONC

1200mm WW & ISBW

300mm CMP

ISELEC

BALD CREEK

IS ELEC

600mm CMP

TELE

BST

GR

B

WD

S

GREEN HOUSE

-L-

PI Sta 149+38.927	PIs Sta 150+66.429	PIs Sta 153+49.958
Δ = 10°53'01.1" (RT)	Gs = 1°33'33.0"	Gs = 2°38'34.0"
L = 214.650	Ls = 61.500	Ls = 73.800
T = 107.649	LT = 41.002	LT = 49.205
R = 1130.000	ST = 20.501	ST = 24.605
SE = 0.05		

27-MAY-2004 12:04
User: [illegible]
File: c:\pdot\workdgn\r-2518b\proj\r-2518b_rdy_pt14.dgn

-L-

PIs Sta 153+49.958
Θs = 2° 38' 34.0"
Ls = 73.800
LT = 49.205
ST = 24.605

PI Sta 154+23.212
Δ = 6° 57' 40.6" (LT)
L = 97.198
T = 48.659
R = 800.000
SE = 0.06

PIs Sta 154+96.356
Θs = 2° 38' 34.0"
Ls = 73.800
LT = 49.205
ST = 24.605

PIs Sta 155+94.756
Θs = 2° 38' 34.0"
Ls = 73.800
LT = 49.205
ST = 24.605

PI Sta 156+84.725
Δ = 9° 20' 36.5" (RT)
L = 130.459
T = 65.375
R = 800.000
SE = 0.06

NAD 83

-Y8- POT Sta. 10+00.000

-L- SCSta. 153+74.553

-L- CSSta. 154+71.751

-L- SRSSta. 155+45.551

-L- SCSta. 156+19.351

153+80
30 M LT

156+64
14 M LT

156+65
15 M RT

ROCK

REMOVE EXISTING GUARDRAIL

US 19 7.9 BST

SR 1393 LOCKHART RD 1.1 BST

SR 1135 4.7 BST

ISBKD

MTL CANOPY

2SFD

ISBUS (CLOSED)

1-ISL 4 GASPUMPS U/MTL CANOPY

PLAYGROUND

BALLFIELD

2SROCK BALD CREEK SCHOOL

ISROCK GYM

2SM BALD CREEK METHODIST CHURCH

ISFD

APT

1500mm WW & ISBW

1200mm CHL

600mm CMP

600mm CURB

1800mm CONC

450mm CMP

200mm CMP

1200mm CONC

900mm CONC

CROSSTIES

PLANTER

FLAGPOLE

BALD CREEK

(ABANDONED)

MATCHLINE -L- STA. 153+60.000 - SEE SHEET 14

MATCHLINE -L- STA. 157+00.000 - SEE SHEET 16

REVISIONS

27-MAY-2005 [214]
jjones
c:\projects\roadway\r-2518b\proj\r-2518b_rdy_psh15.dgn

8/17/99

REVISIONS

METRIC	PROJECT REFERENCE NO.	SHEET NO.
5 0 10	34445JJ R-2518B	16 of 187
CONST.REV.	R/W SHEET NO.	
R/W REV.	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

NAD 83

MATCHLINE –L– STA. 157+00.000 – SEE SHEET 15

MATCHLINE –L– STA. 160+60.000 – SEE SHEET 17

158 159 160

ROCK ROCK ROCK

C F

1500mm WW & ISBW

600mm BLK WALL

CONC W/LT HTR WD DK/ MTL CANOPY MTLBUS MTL G

FLAGPOLE PLANTER

1200mm CHL

SAND BOX SAND BOX SAND BOX

ND BALD CREEK

600mm WW

ISBKBUS PLAYGROUND

900mm CONC

ISMTLBUS

1½SFD 600mm CONC

900mm BLK WALL

VINEYARD

900mm CONC

GATE

19.0 CONC HW 2-4.7 CONC WW

4-4.6x3.1 CONC

1½SBKD

900mm ROCK

1200mm-2200mm BLK WALL PLANTER

1½SFD

RIP

R-18-2005 0969
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METRIC

5 0 10

PROJECT REFERENCE NO.	SHEET NO.
34445JJ R-2518B	17 of 187
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

CONST.REV.

R/W REV.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

REVISIONS

-L-
PIs Sta. 160+41.988
Os = 0°24'23.7"
Ls = 36.900
LT = 24.600
ST = 12.300

NAD 83

MATCHLINE -L- STA. 160+60.000 – SEE SHEET 16

MATCHLINE -L- STA. 164+20.000 – SEE SHEET 18

-L- ST Sta. 160+66.588

S 1°41'01" W

-Y10- POT Sta. 10+00.000

-Y10- POT Sta. 10+53.838 =
-L- POT Sta. 161+26.226

S 86°31'35.5" E

163+60
55 M LT

163+00
35 M LT

162+30
12 M LT

162+78
21 M RT

ROCK

ROCK

ROCK

BALD CREEK

BALD CREEK

US 19 87 BST

SR 1203 BST

SR 1392 SAM ROBINSON RD

ISBKD

ISFD

ISMTL

2SFD

B

ANTENNA

1500mm WW & ISBW

1500mm WW & ISBW

1500mm WW & ISBW

1500mm WW & ISBW

ISELEC & ISBW

ISELEC & ISBW

1500mm WD RAIL

1500mm WD RAIL

1500mm WD RAIL

900mm CONC

900mm CONC

3.4 CONC

2.4x4.3 CONC

3.0 CONC HW
1.6 CONC WW
1.2 CONC WW

3.0 CONC HW
2.3 CONC WW
1.8 CONC WW

4SBW

2SBW

3SBW

RAP

GATE

SOIL

WO

GR

27-MAY-2005 14:02
$USER
C:\Projects\roadsdgn\r-2518b\proj\r-2518b_rdy.pw17.dgn

PROJECT REFERENCE NO.	SHEET NO.
34445.11 R-2518B	18 of 187
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

METRIC

5 0 10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

REVISIONS

8/17/33

-Y11-
PI Sta 10+32.008
Δ = 30° 57' 48.7" (RT)
L = 42.693
T = 21.882
R = 79.000
SE = 0.01

-Y11- POT Sta. 10+00.000

-Y11- PCSta. 10+10.127

S 56° 15' 30.1" E

-Y11-

S 2° 17' 42.5" E

-Y11- PT Sta. 10+52.819

S 86° 31' 35.5" E

-L-

-Y11- POT Sta. 10+71.768 =
-L- POT Sta. 165+44.349

NAD 83

10

165

166

167

ABAND

2SFD

B

3SBW

1500mm WW & ISBW

900mm WW

164+90
22 M LT

164+90
23 M RT

ANTENNA

ABAND

ABAND

ABAND

BALD CREEK

GATE

MATCHLINE -L- STA. 164+20.000 – SEE SHEET 17

MATCHLINE -L- STA. 167+80.000 – SEE SHEET 19

04-JUN-2005 10:55
$(Login) log:\c:\drive\ceddgn\r-2518b\proj\r-2518b_rdy_pshtb.dgn

8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
34445JJ R-2518B	19 of 187
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

METRIC

5 0 10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

MATCHLINE -L- STA. 167+80.000 – SEE SHEET 18

MATCHLINE -L- STA. 171+40.000 – SEE SHEET 20

NAD 83

168 169 170 171

-L- TSSta.170+08.982

-L- SCSta.170+45.882

-L- CSSta.171+25.234

S 86° 31' 35.5" E

US 19 8.5 BST

-L-

PIs Sta. 170+33.582
Θs = 0° 36' 14.6"
Ls = 36.900
LT = 24.600
ST = 12.300

PI Sta. 170+85.565
Δ = 2° 35' 52.9" (LT)
L = 79.352
T = 39.683
R = 1,750.000
SE = 0.03

01-JUN-2005 10:38
d:\proj\cadd\workspace\projects\r-2518b\proj\r-2518b_rdy_prt\1%dgn

8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
34445JJ R-2518B	20 of 187
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

METRIC 5 0 10

CONST.REV.

R/W REV.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

-L-
PIs Sta. 171+37.534 Es = 0' 36' 14.6" Ls = 36.900 LT = 24.600 ST = 12.300
PIs Sta. 171+86.734 Es = 0' 36' 14.6" Ls = 36.900 LT = 24.600 ST = 12.300
PI Sta. 172+38.857 Δ = 2° 36' 25.9" (RT) L = 79.632 T = 39.823 R = 1750.000 SE = 0.03
PIs Sta. 172+90.967 Es = 0' 36' 14.6" Ls = 36.900 LT = 24.600 ST = 12.300

-Y12-
PI Sta. 10+38.587 Δ = 7° 08' 47.9" (RT) L = 21.953 T = 10.991 R = 176.000 SE = 0.07
PI Sta. 10+67.439 Δ = 55° 30' 11.5" (RT) L = 32.936 T = 17.889 R = 34.000 SE = 0.09

MATCHLINE -L- STA. 171+40.000 – SEE SHEET 19

MATCHLINE -L- STA. 175+00.000 – SEE SHEET 21

I72

I73

I74

MBSW

NAD 83

-Y12- POT Sta. 10+00.000

-Y12- PC Sta. 10+27.597

-Y12- PCC Sta. 10+49.550

-Y12- PT Sta. 10+82.486

S 88° 56' 33.2" E

-Y12-

-L- SRS Sta. 171+62.134

S 26° 17' 33.8" E

-L- S 86° 31' 02.5" E

-L- SC Sta. 171+99.034

175+20
25 M RT

-L- ST Sta. 173+15.566

-L- CS Sta. 172+78.666

-Y12- POT Sta. 11+06.075 =
-L- POC Sta. 172+68.943

SR 1453 6J BST

US 19 8.5 BST

7.2 BST

BST

APPROX. LOCATION OF JUNCTION BOX

5SBW

WD RAIL & 3SBW

1500mm WW & ISBW

1200mm WW

450mm CMP

600mm CMP

375mm CMP

4.0 CONC HW

2SFD

2100mm CONC

CONC

W/LT

BALD CREEK

LUMBER SHED

LUMBER SHED

GR

MTL

09-JUN-2005 10:46
jjones
c:\projects\roaddesign\r-2518b\proj\r-2518b_rdy_psht28.dgn

8/17/93

METRIC

5 0 10

PROJECT REFERENCE NO.	SHEET NO.
34445JJ R-2518B	21 of 197
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

-L-

NAD 83

176

177

178

MATCHLINE -L- STA. 175+00.000 – SEE SHEET 20

MATCHLINE -L- STA. 178+60.000 – SEE SHEET 22

BALD CREEK

1500mm WW & ISBW

27.5 CONC HW
3.4 CONC WW
8.3 CONC WW

4-6.4x1.1 CONC

.06 BST

REMOVE EXISTING GUARDRAIL

MTL

US 19 T.6 BST

27.5 CONC HW
6.2 CONC WW
5.4 CONC HW

REMOVE EXISTING GUARDRAIL & CULVERT

175+13
12 M RT

175+93
12 M RT

176+01
2 M RT

S 86°31'02.5" E

-L- POT Sta. 179+00.000
-Y13- POT Sta. 11+17.693

-Y14-
N 86°28'04.9" W

-Y14- POT Sta. 11+24.492

SR 1128 POSSUM TROT RD T.D BST

1200mm WW & ISBW

ISBLK

SILO

ISBKD

CONC

W/LT

mm WD RAIL

5.4 BST

06-JUN-2005 8:28
$(Proj log)(Proj dir)\(Proj name)\(Proj name)-(Proj dsg)-pst21.dgn

PROJECT REFERENCE NO.	SHEET NO.
34445JJ R-2518B	22 of 197
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

METRIC

5 0 10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

REVISIONS

8/17/99

MATCHLINE -L- STA. 178+60.000 – SEE SHEET 21

MATCHLINE -L- STA. 182+20.000 – SEE SHEET 23

NAD 83

-Y13- POT Sta. 10+00.000

-L- POT Sta. 179+00.000 =
-Y14- POT Sta. 10+00.000

S 29° 23' 54.4" W

S 86° 31' 02.5" E

S 3° 28' 56.2" W

-Y14- PCSta. 10+10.760

-L- TSSta. 179+60.260

-L- SCSta. 180+21.760

-Y14- PTSta. 10+57.910

179

180

181

182

900mm CMP MTL

4.0 CONC HW

3.0 CONC HW

3.0 BST

1200mm WW & ISBW MTL

600mm CMP

1200mm CMP

2.1 CONC HW

375mm CMP

375mm PLASTIC

750mm CMP

1800mm CONC

DI

600mm CMP

450mm CMP

US 19 E 7.6 BST

BST

WD DK

ISBKD

4000mm - 1500mm ROCK WALL

SOIL

ISFD

CONC

182+00
64 M LT

181+20
42 M RT

182+00
48 M RT

-Y14-
PI Sta 10+40.786
Δ = 90° 02' 58.7" (RT)
L = 47.150
T = 30.026
R = 30.000
SE = 0.05

-L-

PIs Sta 180+01.262	PI Sta 182+73.688
θs = 1° 36' 06.0"	Δ = 25° 47' 58.0" (RT)
Ls = 61.500	L = 495.314
LT = 41.002	T = 251.928
ST = 20.502	R = 1,100.000
	SE = 0.05

06-JUN-2005 8:37
C:\Projects\dot\ve\caddgn\v-25180\proj\v25180_rdy_pak22.dgn

PROJECT REFERENCE NO.	SHEET NO.
34445JJ R-2518B	23 OF 137
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

METRIC 5 0 10

CONST.REV.

R/W REV.

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

MATCHLINE -L- STA. 182+20.000 – SEE SHEET 22

-L-
PI Sta 182+73.688
Δ = 25° 47' 58.0" (RT)
L = 495.314
T = 251.928
R = 1,100.000
SE = 0.05

PIs Sta 185+37.575
Θs = 1° 36' 06.0"
Ls = 61.500
LT = 41.002
ST = 20.502

-DR2-
PI Sta 10+15.595
Δ = 24° 36' 36.7" (LT)
L = 21.476
T = 10.906
R = 50.000
SE = 0.02

PI Sta 10+40.815
Δ = 53° 14' 34.2" (RT)
L = 27.160
T = 14.649
R = 29.227
SE = 0.02

-DR2- POT Sta. 10+00.000 =
-L- POC Sta. 184+10.000

-DR2- PRC Sta. 10+26.165

-DR2- PT Sta. 10+53.325

-DR2- PC Sta. 10+04.689

-DR2- POT Sta. 10+86.357

-L- CS Sta. 185+17.074

-L- SRS Sta. 185+78.574

MATCHLINE -L- STA. 185+80.000 – SEE SHEET 24

183 184 185

NAD 83

S 25° 47' 28.5" W

S 53° 25' 07" W

REMOVE EXISTING GUARDRAIL

US 19 E 7& 85T

1800mm CONC

1200mm WW & ISBW

1200mm WW

1200mm CMP

450mm CMP

4.0 CONC HW

2.1 CONC HW

3.0 BST

5SBW & ISELEC

SOIL

GATES

ISFD

CONC

WD DK

CAR PORT

PLANTER

CB ANTENNA

W/LT

2SFD

200mm ROCK WALL

TUNNEL

MTL

8/17/2023

04-JAN-2005 14:50
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Rudy

8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
34445.11 R-2518B	24 of 187
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

METRIC 5 0 10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

-L-
Pls Sta 185+37.575
Es = 1°36'06.0"
Ls = 61.500
LT = 41.002
ST = 20.502

Pls Sta 186+35.984
Es = 3°19'59.6"
Ls = 86.100
LT = 57.410
ST = 28.709

Pl Sta 188+31.784
Δ = 25°27'02.3" (LT)
L = 328.706
T = 167.110
R = 740.000
SE = 0.07

NAD 83

MATCHLINE -L- STA. 185+80.000 – SEE SHEET 23

MATCHLINE -L- STA. 189+40.000 – SEE SHEET 25

-L- SCSta.186+64.674

REMOVE EXISTING GUARDRAIL

REMOVE EXISTING GUARDRAIL

ROCK

186+80
22 M RT

187+60
48 M RT

186

187

188

189

200mm WD WALL

200mm BLK WALL

ISBKD

CONC

900mm CONC

900mm WD RAIL

3.2 BST

3.0 BST

3.0 CONC

600mm CMP

MTL

3.0 BST FUNNEL

0.6 BST

US 19 E 7.2 BST

1800mm CONC

450mm CMP

1200mm WW & ISBW

MTL CANOPY

MTL CAR PORT

VINEYARD

2SFD

MD. DK

HTR

450mm BK WALL

PDOL

SOIL

GR

GUY

375mm CMP

IGATE

1200mm WW & 1SBW

08-JAN-2005 jeff
G:\...\projects\r-2518b\prod\r-2518b-rdwy-sht24.dgn
Plotted: 12-JAN-2005 12:28

8/17/99

METRIC	PROJECT REFERENCE NO.	SHEET NO.
5 0 10	34445JJ R-2518B	25 OF 167
	R/W SHEET NO.	
CONST.REV.	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
R/W REV.	PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

-L-
PI Sta 188+31.784
Δ = 25° 27' 02.3" (LT)
L = 328.706
T = 167.110
R = 740.000
SE = 0.07

PIs Sta 190+22.089
θs = 3° 19' 59.6"
Ls = 86.100
LT = 57.410
ST = 28.709

NAD 83

US 19 W 6.4 BST
1500mm WD RAIL
450mm BK WALL
ABAND
PRICE CREEK
6SBW
1800mm WW
GUY
GATE
4-3.7 CONC
190
191
192
GR
ISF BUS
ISMTL BUS
G MTL
W/LT
S
CONC
1200mm WW & ISBW
1200mm WW
800mm WD
1500mm WD RAIL

-L- CSSta.189+93.380
-L- STSta.190+79.480
FUNNEL
MTL
30 BST
CONC
S 89° 37' 53.9" E
191+65
12 M RT
192+20
12 M RT
PRICE CREEK
3SBW
WD

MATCHLINE -L- STA. 189+40.000 – SEE SHEET 24
MATCHLINE -L- STA. 193+00.000 – SEE SHEET 26

CONC
CONC
CONC

REVISIONS

04-FEB-2005 15:58
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8/17/98

METRIC

5 0 10

PROJECT REFERENCE NO.	SHEET NO.
34445.11 R-2518B	26 of 187
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER

HYDRAULICS ENGINEER

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

REVISIONS

NAD 83

MATCHLINE -L- STA. 193+00.000 – SEE SHEET 25

MATCHLINE -L- STA. 196+60.000 – SEE SHEET 27

POND

CAR WASH U/MTL CANOPY

BST

GR

VACCUMS

W/LT

1800mm CMP

BK COLUMNS

6SBW

US 19 W 6.4 BST

SR 1454 6.4 BST

194

1050mm CMP

-Y15- POT Sta. 10+00.000

10

S 0°06'29.9" W

SR 1136

195

DI

CONC

750mm CMP

5 GAS PUMPS U/MTL CANOPY

2SBLK BUS

1SBLK BUS

2SBLKAPT

196

ISFD

ANTENNA'S

600mm CMP

1200mm WW & ISBW

1800mm CONC

REMOVE EXISTING GUARDRAIL

US 19 E BST

US 19 E T.9 BST

S 89°37'53.9" E

450mm CMP

ROCK

-L- POT Sta. 194+47.800 =
-Y15- POT Sta. 10+67.317

-Y15- POT Sta. 11+27.015

375mm CMP

MTL CAR PORT

ABAND

SSBW

WD RAIL

04-JUN-2005 5:23
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8/17/99

REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
34445JJ R-2518B	27 OF 187
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

METRIC 5 0 10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

MATCHLINE -L- STA. 196+60.000 – SEE SHEET 26

MATCHLINE -L- STA. 200+20.000 – SEE SHEET 28

200mm BK WALL ABAND W/LT
BST
1800mm CHL
ABAND
GATES
SR 1454 6.4 BST
1200mm WW
3.0 BST
GR
200mm BK WALL
197
W/LT
ISBKD
S
ABAND
198
WD
DK
200mm BK WALL
3.4 CONC
199
NAD 83
POND
5SBW
200
CONC
HTR
B
900mm CONC
CONC
1200mm WW & ISBW
1/2SFD
200mm BLK WALL
W/LT
450mm CMP
1050mm CMP
DI
1800mm CONC
MTL
1450mm CMP
US 19 E 7.9 BST
S 89°31'53"E
198+20
20 M RT
199+40
44 M RT
6SBW
GREEN HOUSE
15FD

SEE SHEET 48 FOR -L- PROFILE

02-JUN-2005 10:32
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PROJECT REFERENCE NO.	SHEET NO.
34445.11 R-2518B	28 OF 187
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

METRIC 5 0 10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

REVISIONS

MATCHLINE –L– STA. 200+20.000 – SEE SHEET 27

MATCHLINE –L– STA. 203+80.000 – SEE SHEET 29

NAD 83

-Y16-

PI Sta 10+38.733	PI Sta 11+01.351
Δ = 21° 50' 48.3" (RT)	Δ = 15° 11' 16.8" (RT)
L = 31.648	L = 54.342
T = 16.018	T = 27.331
R = 83.000	R = 205.000
SE = EXISTING	SE = 0.02

-Y16- POT Sta.10+00.000

-Y16- PCSta.10+22.715

-L- POT Sta. 202+03.980 =
-Y16- POC Sta. 11+02.891

-Y16- PTSta.10+54.363

-Y16- PCSta.10+74.020

-Y16- PTSta.11+28.362

-Y16- POTSta.11+67.421

S 25° 51' 49.4" E

S 4° 10' 01.2" E

S 11° 10' 15.7" W

-L- S 89° 37' 53.9" E

200+78
34 M RT

203+80
65 M RT

ISBK CANE RIVER BAPTIST CHURCH

ISBKD

WD DK

CONC

900mm CONC

1200mm CML

1650mm CMP

1200mm WW & ISBW

REMOVE EXISTING GUARDRAIL

450mm CMP

1800mm CONC

375mm CMP

DI

MTL

US 19 E 7.9 BST

SR 1137 60 BST

2.5 BST

5.0 BST

5.4 BST

2.4 CONC HW

GATES

GR

2SELEC

W/L

ISBKD

SOIL

201

202

203

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REVISIONS

METRIC	PROJECT REFERENCE NO.	SHEET NO.
5 0 10	34445JJ R-2518B	29 of 187
	R/W SHEET NO.	
CONST.REV.	ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER
R/W REV.	PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION INCOMPLETE PLANS DO NOT USE FOR R/W ACQUISITION	

MATCHLINE -L- STA. 203+80.000 – SEE SHEET 28

MATCHLINE -L- STA. 207+20.000 – SEE SHEET 30

NAD 83

GATE
W/LT
CONC STONES
ISFD
S
1200mm RD RAIL
GATE
1200mm WW
GATE
1200mm WW
1200mm WW
204
205
206
207
55BW
55BW
55BW
55BW
HTR
WO
WD DK
SR 1454 6.4 BST
SR 1454 7.3 BST
GR
CONC PATIO
ISFD
ISL BLG
C
1200mm WW & ISBW
1200mm WW & ISBW
1200mm WW & ISBW
C
F
REMOVE EXISTING GUARDRAIL
1500mm CMP
2-2250mm CMP
MTL
US 19 E 7.9 BST
S 89°37'53.9" E
1800mm CONC
DI
1800mm CMP
DI
450mm CMP
450mm CMP
204+95
25 M RT
-L- TSSta. 204+46.518
2.5 CONC FW
205+87
30 M RT
-L- SCSta. 205+20.318
203+80
65 M RT
CONC PATIO
ISFD
900mm CONC
ISFD
S

-L-

PIs Sta. 204+95.724	PI Sta. 206+22.758
θs = 2°49'08.2"	Δ = 15°33'19.4" (RT)
Ls = 73.800	L = 203.620
LT = 49.206	T = 102.440
ST = 24.606	R = 750.000
	SE = 0.06

03-JUN-2005 KMS
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REVISIONS

PROJECT REFERENCE NO.	SHEET NO.
34445JJ R-2518B	30 of 187
R/W SHEET NO.	

ROADWAY DESIGN ENGINEER | HYDRAULICS ENGINEER

METRIC

5 0 10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

-L-

Pls Sta. 207+48.543
Θs = 2° 49' 08.2"
Ls = 73.800
LT = 49.206
ST = 24.606

Pls Sta. 208+38.740
Θs = 1° 45' 42.6"
Ls = 61.500
LT = 41.002
ST = 20.502

PI Sta. 210+99.626
Δ = 27° 02' 00.7" (LT)
L = 471.824
T = 240.388
R = 1,000.000
SE = 0.05

NAD 83

MATCHLINE -L- STA. 207+20.000 – SEE SHEET 29

MATCHLINE -L- STA. 210+80.000 – SEE SHEET 31

208

209

210

200mm BK WALL

1½SFD

ISFD

WD DK

[CONC] 300mm BLK WALL

GR

27 BST

S

G

2SFD

900mm ROCK

900mm CONC

30 BST

BST

208+40
45 M LT

210+00
35 M LT

1200mm WW & ISBW

2.2 CONC HW

REMOVE EXISTING GUARDRAIL

-L- SCSta. 208+59.238

US 19 E 7.9 BST

3.0 BST

MTL

TL

600mm CMP

1800mm CONC

450mm CMP

0.6 BST

375mm CMP

2-1250mm CMP

6.9 CONC HW

207+40
28 M RT

-L- CSSta. 207+23.938

-L- SRSSta. 207+97.738

SOIL

GATE

55BW

1200mm WD RAIL

ST

1200mm WW

3.0 BST

450mm CMP

WD DK

ISFD

G

BST

GR

DI

PROJECT REFERENCE NO.	SHEET NO.
34445JJ R-2518B	31 of 187
R /W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

METRIC

5 0 10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R /W REV.

REVISIONS

-L-
PI Sta 210+99.626
Δ = 27° 02' 00.7" (LT)
L = 471.824
T = 240.388
R = 1,000.000
SE = 0.05

PIs Sta 213+51.564
θs = 1° 45' 42.6"
Ls = 61.500
LT = 41.002
ST = 20.502

NAD 83

MATCHLINE -L- STA. 210+80.000 – SEE SHEET 30

MATCHLINE -L- STA. 214+40.000 – SEE SHEET 32

211 212 213 214

21 BST BST 30 BST 55SW 34 BST 27 BST 50 BST 3.4 BST US 19 E 7.9 BST US 19 E 7.9 BST SR 1136 PHIPPS CREEK RD 6.7 BST

1200mm CMP 1200mm CONC ROCK WALL 600mm ROCK WALL 1200mm WW & ISBW 1800mm CONC 375mm CMP 600mm CMP 250mm CMP 1800mm CONC WD RAIL

CONC WD DK 2SFD BST G 2SFD BST ISFD

-L- STSta. 213+92.562

214+00
35 M LT

-L- CSSta. 213+31.062

N 81° 00' 16.0" E

213+60
30 M RT

S 73° 45' 13.9" W

-Y18- POTSta. 11+89.091

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PROJECT REFERENCE NO.	SHEET NO.
34445.11 R-2518B	32 of 187
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

METRIC

5 0 10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

REVISIONS

MATCHLINE -L- STA. 214+40.000 – SEE SHEET 31

MATCHLINE -L- STA. 218+00.000 – SEE SHEET 33

-Y17- PT Sta. 11+75.686

SR 1454 6.6 BST

S 55° 23' 18.1" E

-Y17- PC Sta. 12+61.346

-L- POT Sta. 215+53.251

-Y17- PT Sta. 13+01.832

-Y18- POT Sta. 10+00.000

NAD 83

-Y17-

PI Sta 11+30.692
Δ = 5° 35' 25.8" (RT)
L = 90.059
T = 45.065
R = 923.000
SE = EXISTING

PI Sta 12+82.773
Δ = 46° 23' 36.2" (RT)
L = 40.486
T = 21.427
R = 50.000
SE = 0.04

1200mm WW & ISBW

-DR4- POT Sta. 10+00.000

MTL CANOPY

ISFD

SDIL

B

W

BST

375mm CMP

6.0 BST

1800mm CONC

DI

450mm CMP

750mm CMP

600mm CMP

N 81° 00' 16.0" E

-L-

US 19 E BST

US 19 E 7.3 BST

-Y18- PC Sta. 10+09.011

S 73° 45' 13.9" W

SR 1136 PHIPPS CREEK RD 6.7 BST

-Y18- PT Sta. 10+59.560

-Y18-

PI Sta 10+39.840
Δ = 82° 44' 55.8" (RT)
L = 50.548
T = 30.829
R = 35.000
SE = 0.04

GR

W/SBKD U/C

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PROJECT REFERENCE NO.	SHEET NO.
34445JJ R-2518B	33 of 137
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

METRIC

5 0 10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

REVISIONS

9.17.09

-DR5-

PI Sta 10+23.843
Δ = 86° 11' 44.2" (LT)
L = 30.088
T = 18.714
R = 20.000
SE = 0.02

PI Sta 11+13.375
Δ = 85° 45' 59.0" (RT)
L = 17.963
T = 11.145
R = 12.000
SE = 0.02

-DR6-

PI Sta 10+05.928
Δ = 40° 30' 31.6" (RT)
L = 8.484
T = 4.428
R = 12.000
SE = 0.02

PI Sta 10+37.701
Δ = 78° 24' 54.9" (LT)
L = 16.423
T = 9.790
R = 12.000
SE = 0.02

MATCHLINE -L- STA. 218+00.000 – SEE SHEET 32

MATCHLINE -L- STA. 221+60.000 – SEE SHEET 34

NAD 83

219 220 221

HTR WD DK S ISMTL BUS

1200mm CONC BST 54" BST 48" BST 42" BST 30" BST 27" BST

-DR3- POT Sta. 10+00.000

-DR3- POT Sta. 10+11.000 = -DR4- POT Sta. 10+99.431

-DR5- PC Sta. 10+05.128

-DR5- POC Sta. 10+24.606 = -DR6- POT Sta. 10+00.000

-DR5- PC Sta. 11+02.230

-DR5- PT Sta. 10+35.216

-DR5- PT Sta. 11+20.193

-DR5- POT Sta. 11+30.435

-DR3- POT Sta. 10+34.440 = -DR5- POT Sta. 10+00.000 = -L- POT Sta. 218+89.143 -DR6- PC Sta. 10+01.500

-DR6- PT Sta. 10+44.334

-DR6- POT Sta. 10+49.491

-DR6- PT Sta. 10+09.984

-DR6- PC Sta. 10+27.911

N 81° 00' 14.3" E

-L- N 81° 00' 16.0" E

S 9° 00' 57.0" E

S 65° 41' 36.4" W

S 25° 04.8' W

S 12° 43' 16.5" E

N 84° 47' 18.8" E

REMOVE EXISTING GUARDRAIL

GATE 1800mm CHL

1200mm WW & ISBW

600mm CMP 750mm CMP 450mm CMP 1800mm CONC 375mm CMP 300mm PLASTIC 300mm PVC 200mm CMP 1500mm CONC

ISBKD 300mm BLK WALL ISFD 2SFD

200mm CONC CURB W/LT GR SOIL

DI G W/LT

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Last Saved By: tcarlson
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REVISIONS

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MATCHLINE -L- STA. 221+60.000 – SEE SHEET 33

MATCHLINE -L- STA. 225+20.000 – SEE SHEET 35

-Y19-
PI Sta 10+62.629
Δ = 53° 57' 49.9" (RT)
L = 32.965
T = 17.819
R = 35.000
SE = 0.04

PI Sta 11+02.113
Δ = 19° 12' 15.2" (LT)
L = 16.759
T = 8.459
R = 50.000
SE = 0.02

-Y19- POT Sta.10+00.000

-Y19- PCSta.10+44.809

-Y19- PTSta.10+77.774

-Y19- PCSta.10+93.654

-L- POT Sta. 222+61.890 =
-Y19- PTSta.11+10.413 =
-Y20- POT Sta.10+00.000

-Y20- PCSta.10+14.195

-Y20- PTSta.10+31.681

-Y20-
PI Sta 10+23.313
Δ = 40° 04' 28.6" (LT)
L = 17.486
T = 9.118
R = 25.000
SE = 0.02

-Y20- POTSta.11+38.714

-L- POT Sta. 224+82.890 =
-Y21- POTSta.12+72.674

-Y21-
PI Sta 11+00.210
Δ = 57° 03' 02.2" (LT)
L = 79.658
T = 43.482
R = 80.000
SE = 0.08

PI Sta 12+18.161
Δ = 72° 19' 20.0" (RT)
L = 100.981
T = 58.468
R = 80.000
SE = 0.08

-Y21- PCSta.11+59.693

-Y21- PTSta.11+36.385

-Y21- PTSta.12+60.674

MATCHLINE -Y21- STA. 11+20.000 SEE SHEET 36

NAD 83

S 43° 45' 18.6" E

S 10° 12' 31.3" W

S 45° 04' 12.6" E

S 8° 59' 44.0" E

N 81° 00' 16.0" E

S 81° 19' 04.4" E

S 8° 59' 44.4" E

223+18
12 M LT

223+82
12 M LT

REMOVE EXISTING GUARDRAIL

SR 1115 BAKERS CREEK RD

CANE RIVER

-L-

8/17/93

PROJECT REFERENCE NO.	SHEET NO.
34445JJ R-2518B	35 of 197
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

METRIC

5 0 10

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION
INCOMPLETE PLANS
DO NOT USE FOR R/W ACQUISITION

CONST.REV.

R/W REV.

MATCHLINE -L- STA. 225+20.000 - SEE SHEET 34

NAD 83

-L- POT Sta. 226+25.844

N 81° 00' 16.0" E. -L-

226

1200mm WD RAIL
3.0 BST
3.0 BST
120mm BST CURB
BST
BST
W/LT
150mm BST CURB
MTL
ISBK BUS
ISF BUS
ISFD
CONC
BST
BST
2.4 BST
GR
2S ELEC
CONC
CONC
ISBK&FD
S
2.5 BST
2.7 BST
0.6 BST
HTR
ISFD
B
LT
2S ELEC
GR
2S ELEC
450mm PLASTIC
450mm CMP
200mm CMP
GR
450mm CMP
S
MTL
EOP
EOT 1.2 BST
US 19 E 7.3 BST
EOT 0.6 BST
EOP
US 19 E 7.3 BST
BST
BST
SD
GR
S
750mm CMP W/FES
1800mm CMP
REMOVE EXISTING GUARDRAIL
WD GATE
1200mm WD RAIL
45BW
1200mm WW & 2SBW
2SF APT
CONC
45BW
45BW
IS ELEC
1200mm WD RAIL
1200mm WW & 2SBW
1200mm WD RAIL
IS ELEC
1200mm WW & 2SBW
65BW
45BW

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PROJECT REFERENCE NO.	SHEET NO.
34445.1.1 R-2518B	36 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

880

875

870

865

SAPROLITE

GRAY/BRN MIC. SANDY SILT

866.490

Ditch Depth

S.S. 865.282

6d

865.420

866.48

865.224

115+40.000

S.S. 871.781

SAPROLITE

GRAY/BRN MIC. SANDY SILT

866.892

6d

1.93d

865.661

866.70

S.S. 864.701

115+20.000

PRELIMINARY PLANS
DO NOT USE FOR CONSTRUCTION

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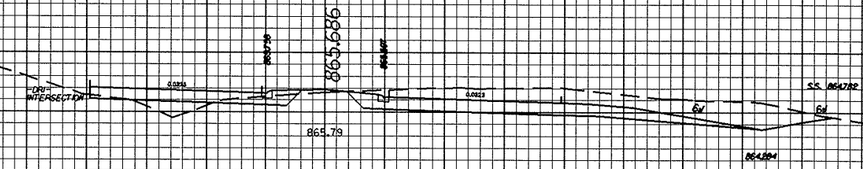
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	37 OF 187

50 40 30 20 10 0 10 20 30 40 50

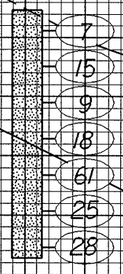
880
875
870
865



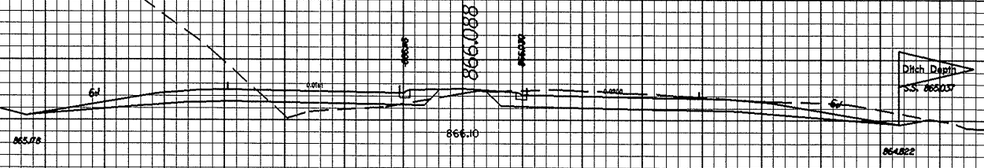
115+80.000

890
885
880
875
870
865

115+51
45 M LT



SAPROLITE
GRAY/BRN MIC. SANDY SILT



115+60.000

50 40 30 20 10 0 10 20 30 40 50

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2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	38 OF 187

50 40 30 20 10 0 10 20 30 40 50

880
875
870
865

SS 88733

a

SAPROLITE

GRAY/BRN MIC. SANDY SILT

865308
865305
868305
865298
865292
SS 864602
6W
6F
863420

116+20.000

875
870
865

SS 871377

6W

865312
865305
865298
866.12
SS 864429
6W
6F
863702

116+00.000

50 40 30 20 10 0 10 20 30 40 50

14-JUN-2005 14:34
tools\drive\c03dgn\v-2518b\vpl\v-2518b_rdy_1_vpl.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	39 OF 187

2.5 0 2.5 5

50 40 30 20 10 0 10 20 30 40 50

895 890 885 880 875 870 865

SAPROLITE

GRAY/BRN. MIC. SANDY SILT

872.76

864.480

862.550

116+40.000

-L-

10/26/26
kdunn 10/26/2026 14:35
k:\pdp\r2518b\r2518b_rdy_l.xpl
dgn: r2518b_rdy_l.xpl.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	40 OF 187

50 40 30 20 10 0 10 20 30 40 50

905 905

900 900

895 895

890 890

885 885

SAPROLITE

GRAY/BRN MIC. SANDY SILT

880 880

875 875

872.48

870 870

864.078

865 865

55. 864.59

116+60.000

50 40 30 20 10 0 10 20 30 40 50

14-JUN-2005 14:37
tools \projects \projects--2518b \vpl \r-2518b_rdy_1_vpl.dgn

2.5 0 2.5 5

METRIC

920
915
910
905
900
895
890
885
880
875
870
865

50 40 30 20 10 0 10 20 30 40 50

SAPROLITE

GRAY/BRN MIC. SANDY SILT

874.66

86.5616

116+80.000

14-JUN-2005 14:38
$USER
d:\projv8i\projects\r-2518b\roll\r2518b_rdy_1_sol.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	42 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

910
905
900
895
890
885
880
875
870
865

SAPROLITE

RED/BRN MIC. SANDY SILT

DENSE

869.63

869.52

SS. 863.88

863.44

11Y+00.000

50 40 30 20 10 0 10 20 30 40 50

14-JUN-2005 14:29
User: cbrown
tools\sdgn\rdwy-2518b\vol1\2518b_rdwy1.sdgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	43 of 187

50 40 30 20 10 0 10 20 30 40 50

895

890

885

880

875

870

865

860

SAPROLITE

RED/BRN MIC. SANDY SILT

DENSE

24

6W

6W

6.0KO

6.0KO

6.0KO

SS-862689

862942

862388

862385

862386

862387

862388

862389

862390

862391

862392

862393

862394

862395

862396

862397

862398

862399

862400

862401

862402

862403

862404

862405

862406

862407

862408

862409

862410

862411

862412

862413

862414

862415

862416

862417

862418

862419

862420

862421

862422

862423

862424

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	44 OF 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

880 875 870 865 860

SS 878.360

6V

4.060

862.287

862.253

862.068

862.214

4.060

0.000

SS 860.326

4.044

6V

860.038

861.98

L1 = 117+60.000

875 870 865 860

SS 866.744

6V

862.287

862.253

862.068

862.214

4.060

0.000

SS 861.960

3.884

6V

860.540

867.21

L2 = 117+40.000

50 40 30 20 10 0 10 20 30 40 50

10/26/98

15-JUN-2005 14:41
c:\projects\2518b\vol1\r2518b_rdy1_vol.dgn
tools\cgn\cs3.cgn
$$$$USER

2.5	0	2.5	5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	45 of 187

50 40 30 20 10 0 10 20 30 40 50

900 895 890 885 880 875 870 865 860

SAPROLITE
RED/TAN MIC. SANDY SILT
MED.DENSE TO VERY DENSE

999+66

859.31

117+80.000

50 40 30 20 10 0 10 20 30 40 50

15-JUN-2005 10:13
tools\drive\c2d\prj\r-2518b\vpl\r-2518b_rdy_1_vpl.dgn

925
920
915
910
905
900
895
890
885
880
875
870

50 40 30 20 10 0 10 20 30 40 50

SAPROLITE
RED/TAN MIC. SANDY SILT
MED. DENSE TO VERY DENSE

118+00.000

-L-

dgn:roi-r-2518b-sht-46.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	47 of 187

2.5 0 2.5 5

METRIC

920
915
910
905
900
895
890
885
880
875
870
865

50 40 30 20 10 0 10 20 30 40 50

SAPPROLITE

RED/TAN MIC. SANDY SILT

WED. DENSE TO VERY DENSE

118+20.000

15-JUN-2005 10:26
k:\projects\r-2518b\plan\r-2518b_rdwy.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	48 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

870 865 860 855

859.489

11

0.0400

0.0400

6V

SS. 859.382

6H

857.259

856.84

118+60.000

885 880 875 870 865 860 855

SAPROLITE

RED/TAN MIC. SANDY SILT

MED. DENSE TO VERY DENSE

12

860.140

860.353

0.0400

0.0400

6V

SS. 854.70

6H

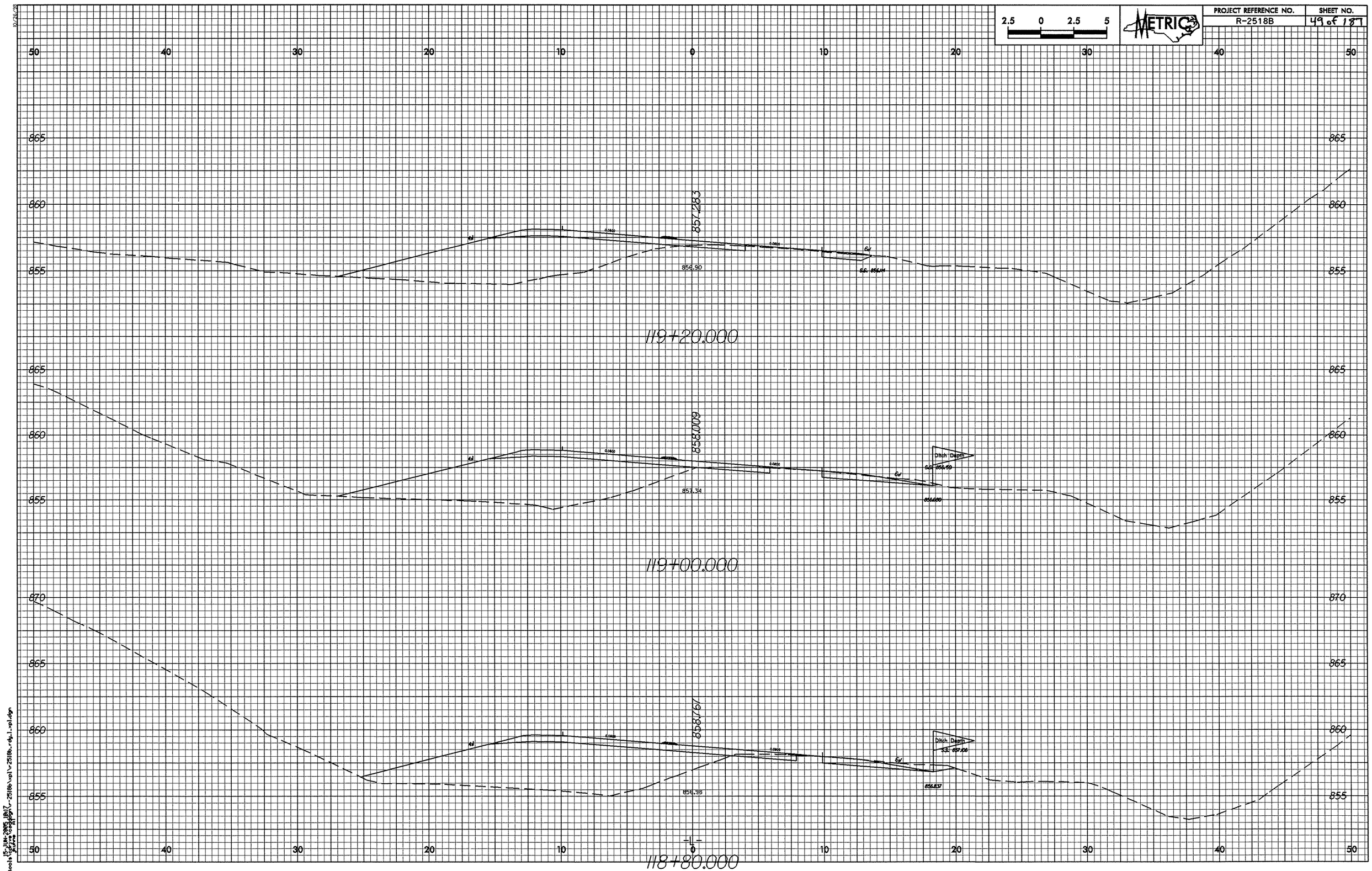
854.20

857.13

118+40.000

50 40 30 20 10 0 10 20 30 40 50

15-JUN-2005 10:16
\\tools\projects\R-2518b\sdlv2518b_rdy_1_pl.dgn



10/26/98
15-JAN-2015 10:17
$cdd$$$$ C:\Projects\R-2518B\col\r-2518b_rdy_1_sp1.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	50 of 177

2.5 0 2.5 5

50 40 30 20 10 0 10 20 30 40 50

855 860 865

854.912

854.81

SS 854.608

120+00.000

855.419

119+74
16 M RT

RDWY FILL
RED/BRN MIC. SILTY SAND W/ RK FRAGS

ALLUVIUM
SILTY SAND W/ GRAVEL

5/17/04

13
17
45
6

119+80.000 SAPROLITE
BRN/GRAY MIC. SANDY SILT

856.018

119+68
15 M LT

RDWY FILL
RED/BRN MIC. SILTY SAND W/ RK FRAGS

Ditch Depth

SS 854.433

854.088

ALLUVIUM
SILTY SAND W/ GRAVEL

5/13/04

12
20
69

119+60.000 SAPROLITE
BRN/GRAY MIC. SANDY SILT

856.619

-Y1- INTERSECTION

856.37

SS 853.805

119+40.000

50 40 30 20 10 0 10 20 30 40 50

855 860 865

10/26/38

Users: jbaldwin
Date: 15-JUN-2005 10:18
File: N:\Projects\2518b\vol1\2518b_rdy1.vol.dgn

10/26/05

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	51 of 187

2.5 0 2.5 5

50 40 30 20 10 0 10 20 30 40 50

850 845

846.491

RDWY FILL

SILTY SAND W/ RK FRAGS

SS: 844026

846.16

SEE Y3 X-SECTIONS

124+60.000

846.382

RDWY FILL

SILTY SAND W/ RK FRAGS

SS: 844422

846.16

124+38
47 M RT

ALLUVIUM
SILTY SAND W/ GRAVEL

SAPROLITE
GRAY/WHT MIC. SANDY SILT

17
6
12

124+40.000

846.355

124+22
15 M LT

RDWY FILL

SILTY SAND W/ RK FRAGS

SS: 844662

846.24

SS: 845648

8
14
5
2
8

ALLUVIUM

SILTY SAND W/ GRAVEL

SAPROLITE

GRAY/WHT MIC. SANDY SILT

124+20.000

846.209

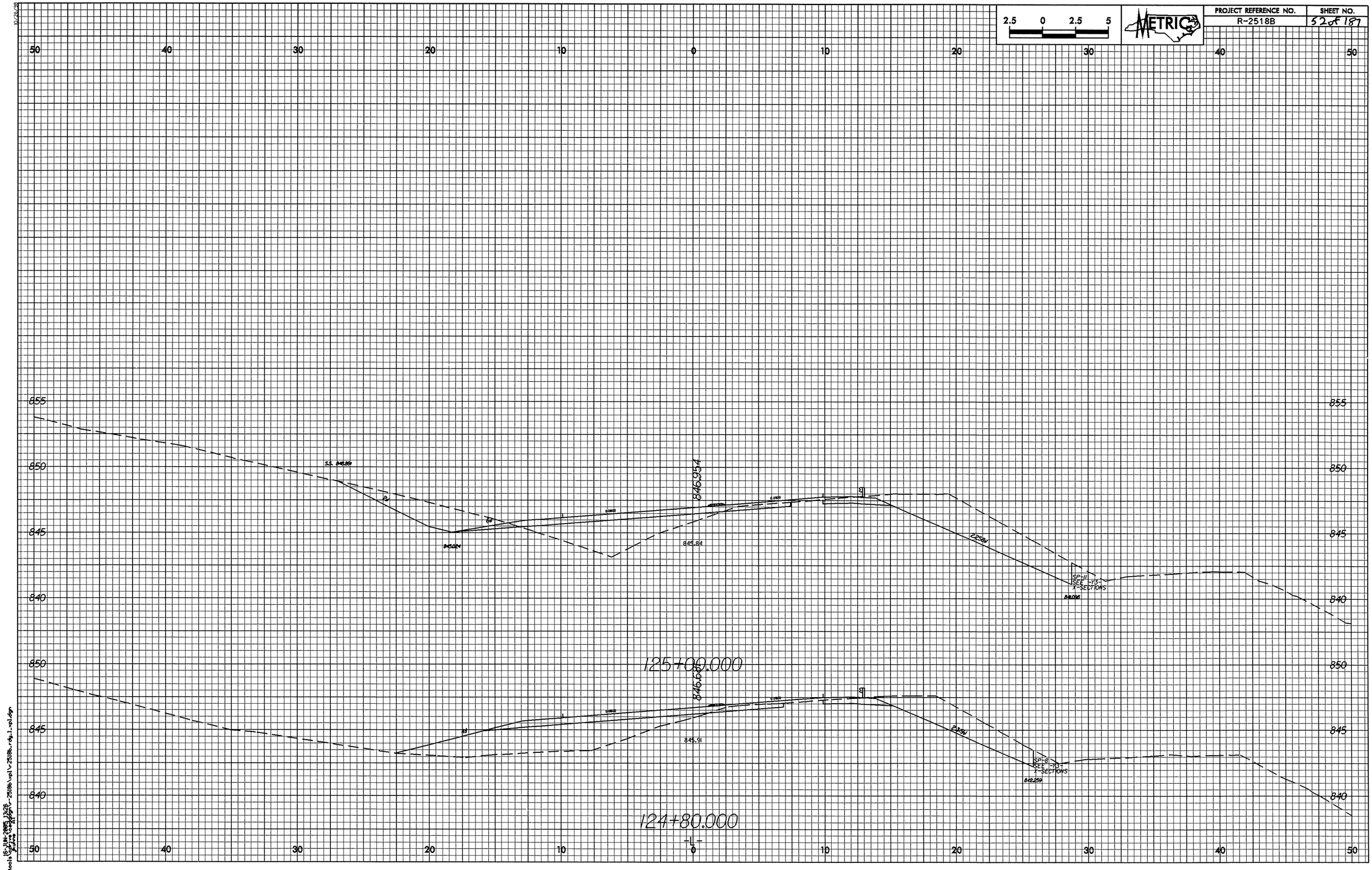
SS: 845096

846.29

124+00.000

-L-

15-JUN-2005 10:29
tools\projects\R-2518B\vpl\r2518b_rdy1_vpl.dgn



16-JUN-2005 13:26
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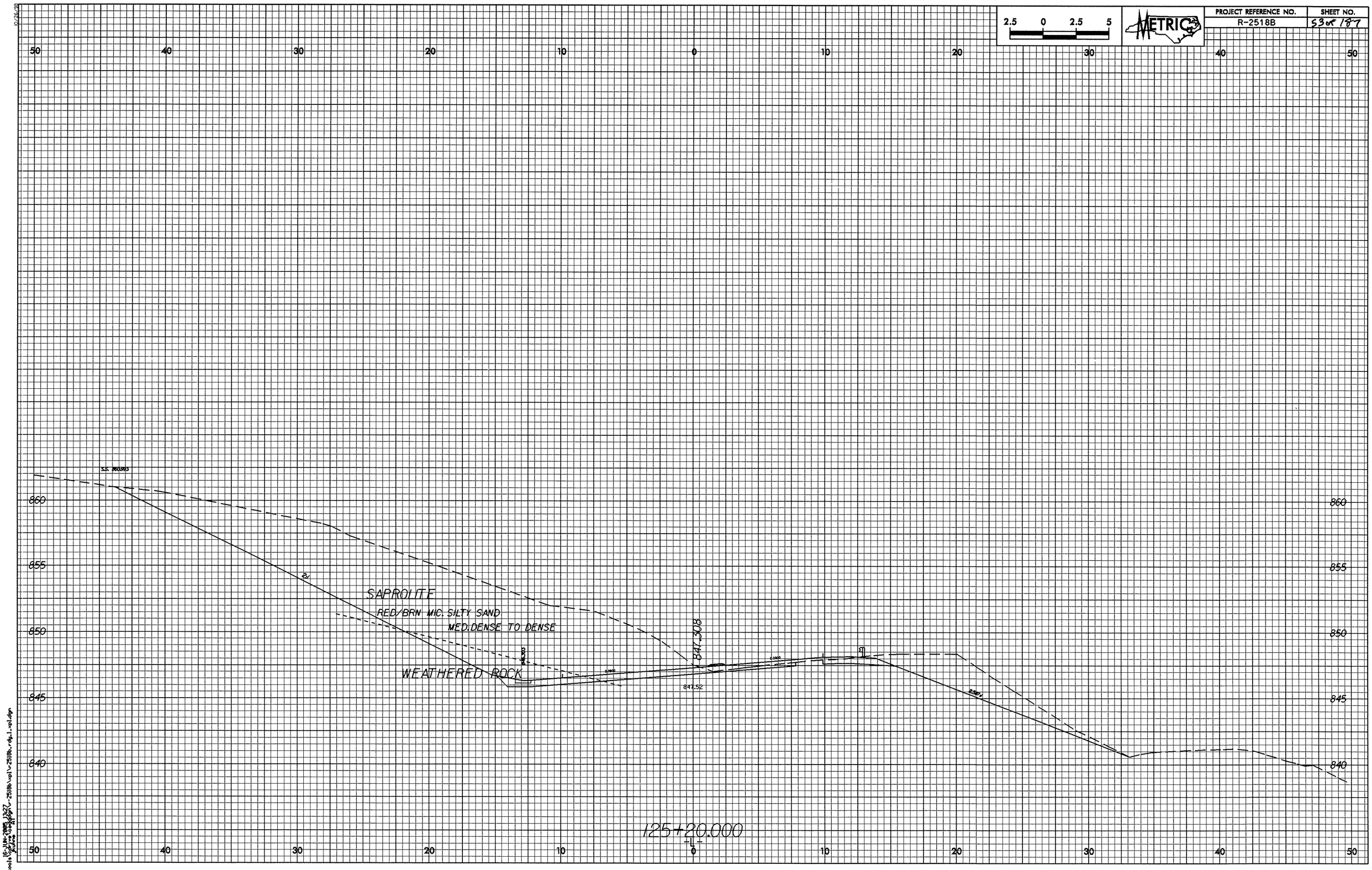


16-JUN-2005 13:27

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	546 187

50 40 30 20 10 0 10 20 30 40 50

875

870

865

860

855

850

845

840

SAPROLITE

RED/BRN MIC. SILTY SAND

MED.DENSE TO DENSE

WEATHERED ROCK

847.744

848.70

125+40.000

-L-

50 40 30 20 10 0 10 20 30 40 50

16-JUN-2005 13:29
tools \projects\R-2518b\vpl\r-2518b_rdy_l_vpl.dgn

10/26/98

2.5	0	2.5	5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	55 of 187

50 40 30 20 10 0 10 20 30 40 50

885
880
875
870
865
860
855
850
845
840

SAPROLITE
RED/BRN MIC. SILTY SAND
MED.DENSE TO DENSE

WEATHERED ROCK

848.216

125+60.000
-L-

50 40 30 20 10 0 10 20 30 40 50

15-JUN-2005 13:29
\\ctdata\projects\r-2518b\col\r2518b_rdy_l_col.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	56 OF 187

50 40 30 20 10 0 10 20 30 40 50

890
885
880
875
870
865
860
855
850
845
840

SAPROLITE
RED/BRN MIC. SILTY SAND
MED. DENSE TO DENSE

848689

848.11

125+80.000

50 40 30 20 10 0 10 20 30 40 50

[6-JUN-2005 13:39
\\ctdata\cad\projects\r-2518b\rpl\r-2518b_rdy1_xpl.dgn
Default

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	57 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

855 850 845 840

126+70
6.5 M RT
15
100'±
845.96
850.44
PROPOSED CONCRETE RETAINING WALL
RK EMBANKMENT

126+60.000

860 855 850 845 840

126+50
6.5 M RT
21
100'±
849.52
2.00
RK EMBANKMENT

126+40.000

50 40 30 20 10 0 10 20 30 40 50

10/26/98
C:\projects\2003\2003-0214\r-2518b\vol1\r-2518b_rdy1_vol.dgn
Jul 14, 2003 13:21
jfcdee

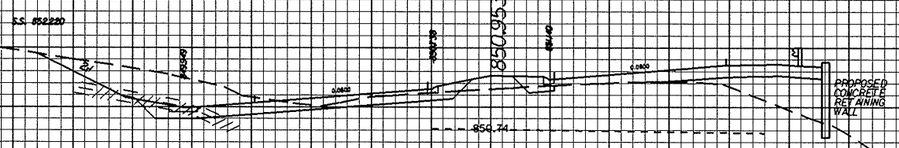
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	58 of 187

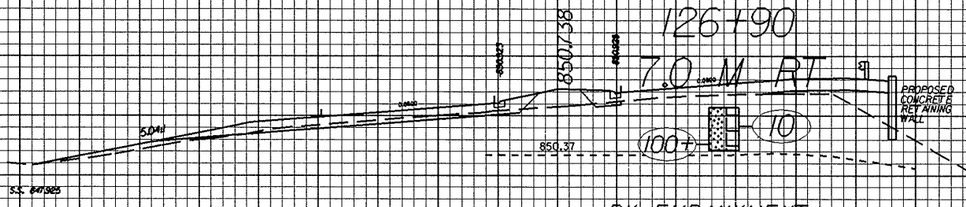
50 40 30 20 10 0 10 20 30 40 50

855 850 845 840 835



RK EMBANKMENT

127+00.000



RK EMBANKMENT

126+80.000

50 40 30 20 10 0 10 20 30 40 50

15-JAN-2008 13:17
User:cdavis
R-2518B_sht.dgn
\\colo1\proj\proj\R-2518B\sgl\R-2518b_rdgl_sgl.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	8 of 37

50 40 30 20 10 0 10 20 30 40 50

860 855 850 845 840 835

127+30
7.5 M RT

85+10.90

43

856.93

PROPOSED CONCRETE RETAINING WALL

RK EMBANKMENT

127+20.000

50 40 30 20 10 0 10 20 30 40 50

15-JUN-2005 13:18
tools\dgn\v-2518b..rdy1.opl.dgn

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	68-187

50 40 30 20 10 0 10 20 30 40 50

865 860 855 850 845 840 835

865

File: N:\PDS\Projects\R-2518B\roh\r2518broh01.dgn
User: mwhite

10/26/98

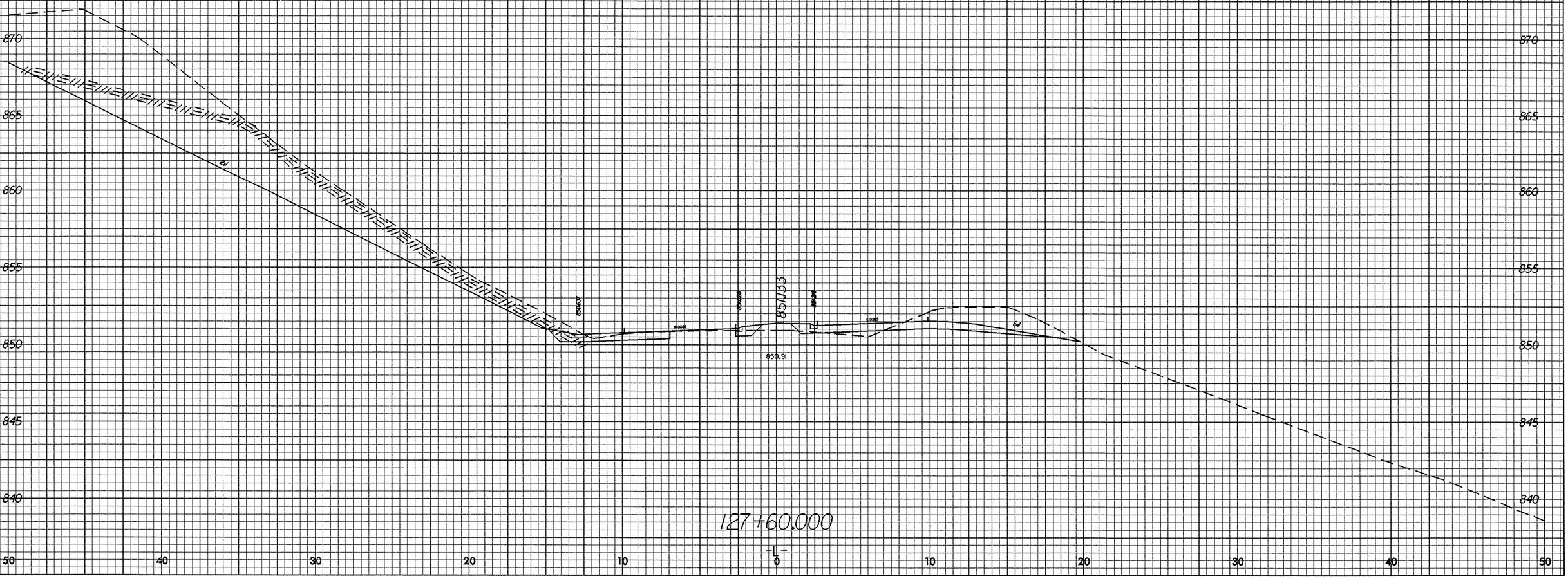
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	61

50 40 30 20 10 0 10 20 30 40 50

870 865 860 855 850 845 840



50 40 30 20 10 0 10 20 30 40 50

dgn-loc-1.dgn 10/26/98 15:38:48 C:\projects\2518b\roadway\r-2518b-roadway-loc-1.dgn

10/26/88

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	62 of 87

50 40 30 20 10 0 10 20 30 40 50

880 875 870 865 860 855 850 845 840

-L-

850.743

850.040

850.266

127+80.000

50 40 30 20 10 0 10 20 30 40 50

File: JMW-2555_1201
Project: 2555201
Date: 10/26/88
Users: jwwest
Model: c:\projects\2518b\col\2518b_rdy_1_col.dgn

10/26/98

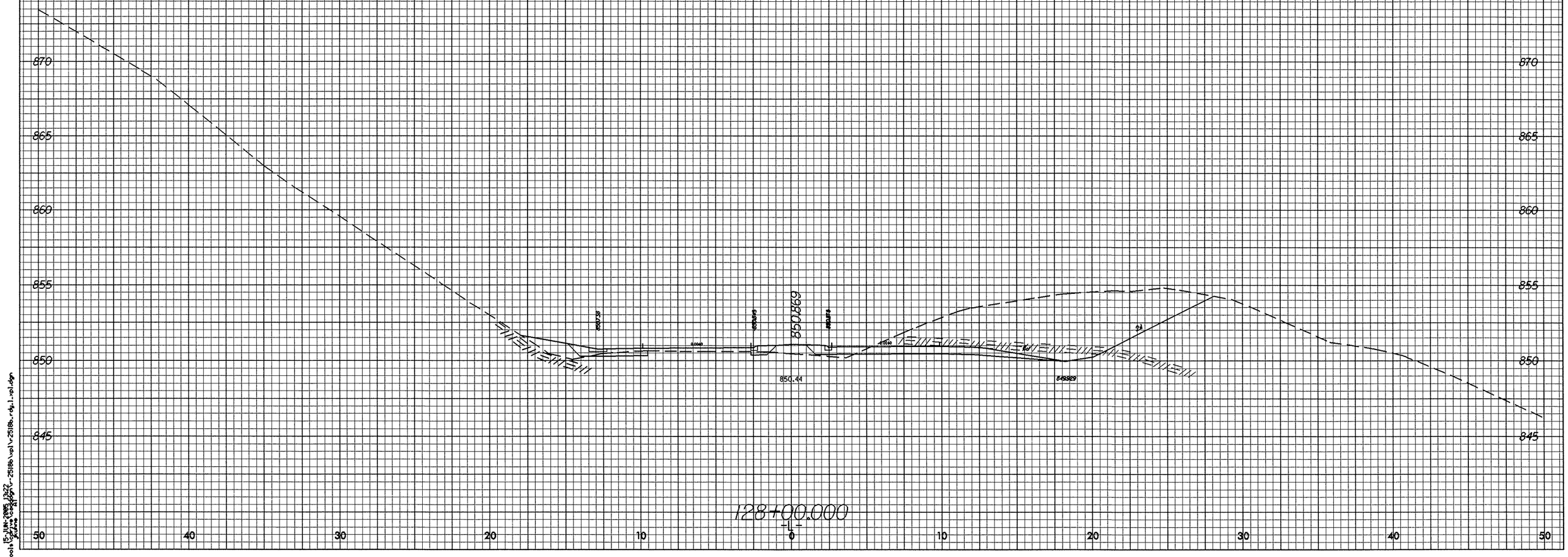
2.5	0	2.5	5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	6306187

50 40 30 20 10 0 10 20 30 40 50

870 865 860 855 850 845



50 40 30 20 10 0 10 20 30 40 50

15-JUN-2005 13:52
User: cdavis
tool: c:\projects\r-2518b\opl\r2518b_rdy1.opl.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	64 OF 187

50 40 30 20 10 0 10 20 30 40 50

870
865
860
855
850

850.12

850621

128+20.000

50 40 30 20 10 0 10 20 30 40 50

15-JUN-2005 12:23
tools\projects\r-2518b\vp1\r-2518b_rdy_1_vp1.dgn

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

870 865 860 855 850

6d 0.0424 0.0424 6d 6d

849.68 849.18 848.42 848.34

128+60.000

870 865 860 855 850 845

6d 0.0246 0.0163 6d 6d

850.296 850.252 850.222

845.70 848.027

128+40.000

50 40 30 20 10 0 10 20 30 40 50

10/26/98

15-JUN-2005 13:24
jscarbrough
c:\projects\r-2518b\roll\r2518b_rdy1.sdl.dgn

10/26/98

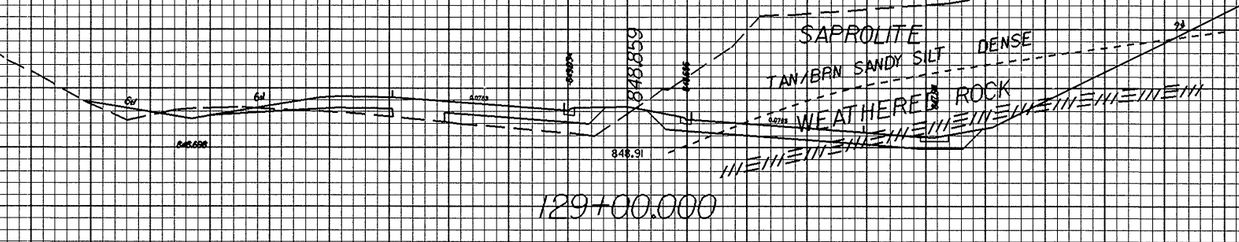
2.5	0	2.5	5

METRIC

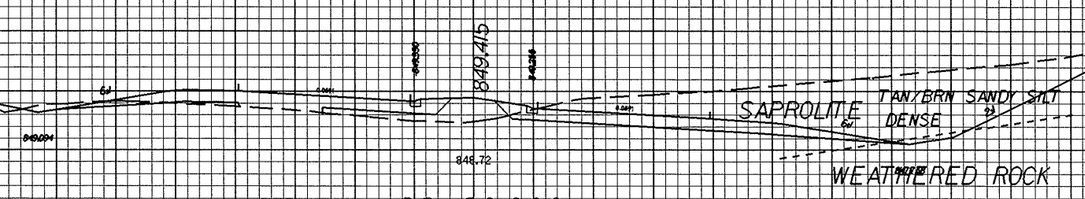
PROJECT REFERENCE NO.	SHEET NO.
R-2518B	66 of 197

50 40 30 20 10 0 10 20 30 40 50

870 865 860 855 850



129+00.000



128+80.000

50 40 30 20 10 0 10 20 30 40 50

870 865 860 855 850

\\ol-fs\pw_proj\TPD\25180\col\25180_dgn_l_sht.dgn
15-JAN-2008 13:24
jkuns

9/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	67 OF 197

50 40 30 20 10 0 10 20 30 40 50

870
865
860
855
850

WEATHERED ROCK

2:1

6H

0.080

1

848.96

847.03

847.516

129+40.000

870
865
860
855
850

WEATHERED ROCK

2:1

6H

0.080

1

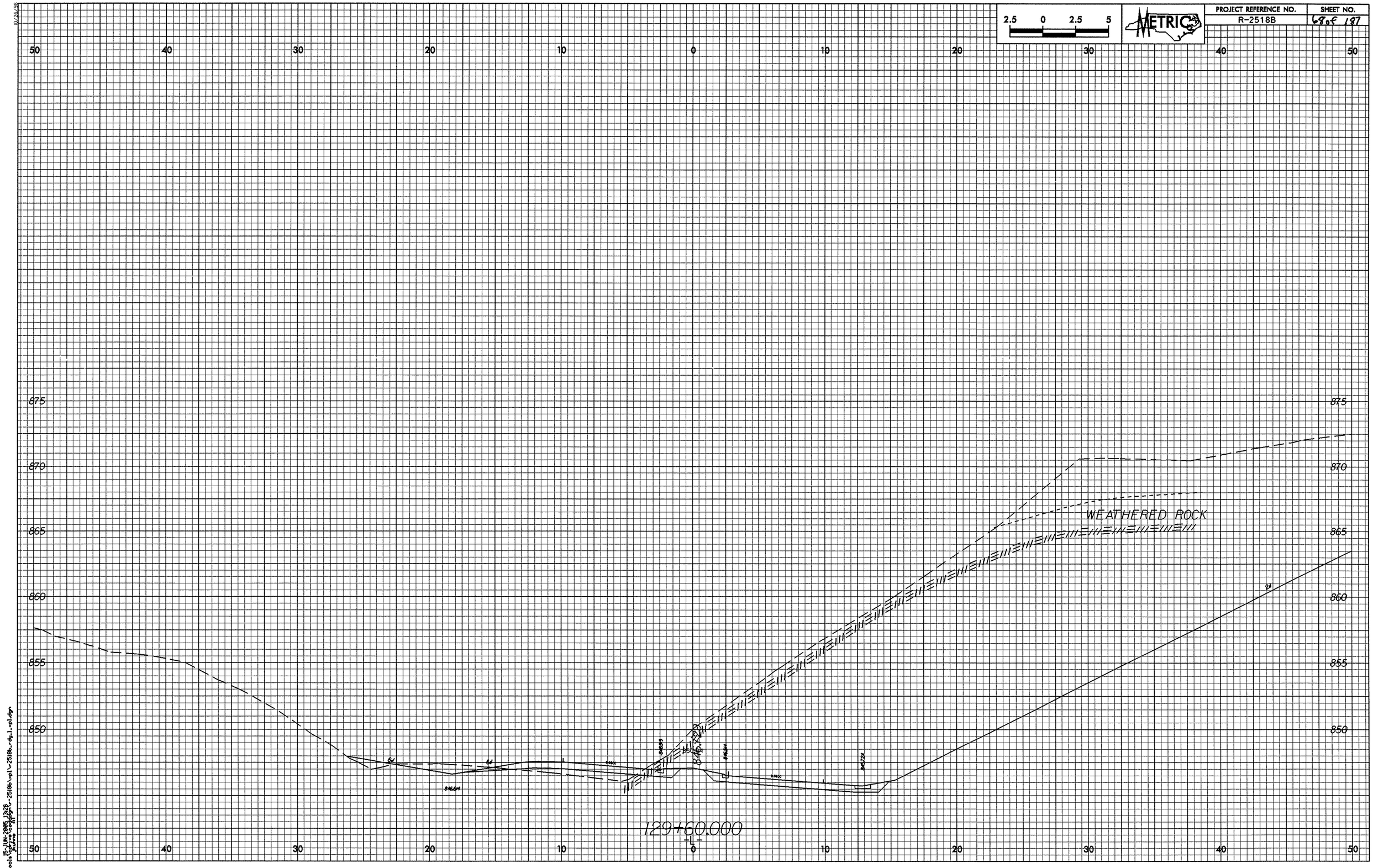
848.96

848.226

129+20.000

50 40 30 20 10 0 10 20 30 40 50

15-JUN-2005 13:25
tools\corpe\pgpw\v_2518b\vpl\v2518b_rdy_l_vpl.dgn



15-JUN-2005 13:26

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

875 870 865 860 855 850 845

129+80
36 M RT
19
100+
100+
WEATHERED ROCK

129+80.000
-L-

15-JUN-2005 13:27
tools\Cadd\sta\sta2518b\v-2518b\xpl\v-2518b_rdy_l_xpl.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	70 of 187

50 40 30 20 10 0 10 20 30 40 50

880

875

870

865

860

855

850

845

WEATHERED ROCK

844.93

844.808

844.808

844.93

844.808

844.808

844.808

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	71 of 187

130+20
38 M RT

62°

WEATHERED ROCK

130+20.000

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	72 of 187

50 40 30 20 10 0 10 20 30 40 50

875 870 865 860 855 850 845

SAPROLITE

RED/BRN MIC. SANDY SILT

WEATHERED ROCK

842.695

842.805

130+40.000

-L-

50 40 30 20 10 0 10 20 30 40 50

875 870 865 860 855 850 845

dgn:\roc-1.dgn 15-JAN-2003 13:43:58 $user
\\rdu\projects\r2518b\roll\r2518b_roll_roc-1.dgn

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

875 870 865 860 855 850 845

130+60
42 M RT

10
44
10
9
13
74

SAPROLITE
RED/BRN MIC. SANDY SILT

847.16
2841638

130+60.000

50 40 30 20 10 0 10 20 30 40 50

15-JUN-2005 13:21
tools\c2d\dgn\R-2518B_25186_rdy_1_sol.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	74 of 187

50 40 30 20 10 0 10 20 30 40 50

870

865

860

855

850

845

840

SAPROLITE

RED/BRN MIC. SANDY SILT

840.439

840.324

130+80.000

15-JAN-2005 13:32
\\ols\Projects\...\2518b\...\r-2518b_rdy1.sht dgn

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

855 850 845 840 865 860 855 850 845 840

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. DENSE TO VERY DENSE

838.088

835.04

837.83

131+20.000

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. DENSE TO VERY DENSE

839.242

839.07

131+00.000

50 40 30 20 10 0 10 20 30 40 50

10/26/98

\\ncdot\ftp\roadway\projects\2518b\vol1\2518b_rdy_1_sht_vol.dgn
jkuhn

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

855 850 845 840 835

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. DENSE TO VERY DENSE

835.952
836.28
836.637

1311+60.000

860 855 850 845 840

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. DENSE TO VERY DENSE

836.992
837.63
836.877

1311+40.000

50 40 30 20 10 0 10 20 30 40 50

50 40 30 20 10 0 10 20 30 40 50

850 845 840 835

SAPROLITE
RED/BRN. MIC. SANDY SILT
MED. DENSE TO VERY DENSE

834.044

833.989

834.02

132+00.000

855 850 845 840 835

SAPROLITE
RED/BRN. MIC. SANDY SILT
MED. DENSE TO VERY DENSE

834.970

834.855

835.11

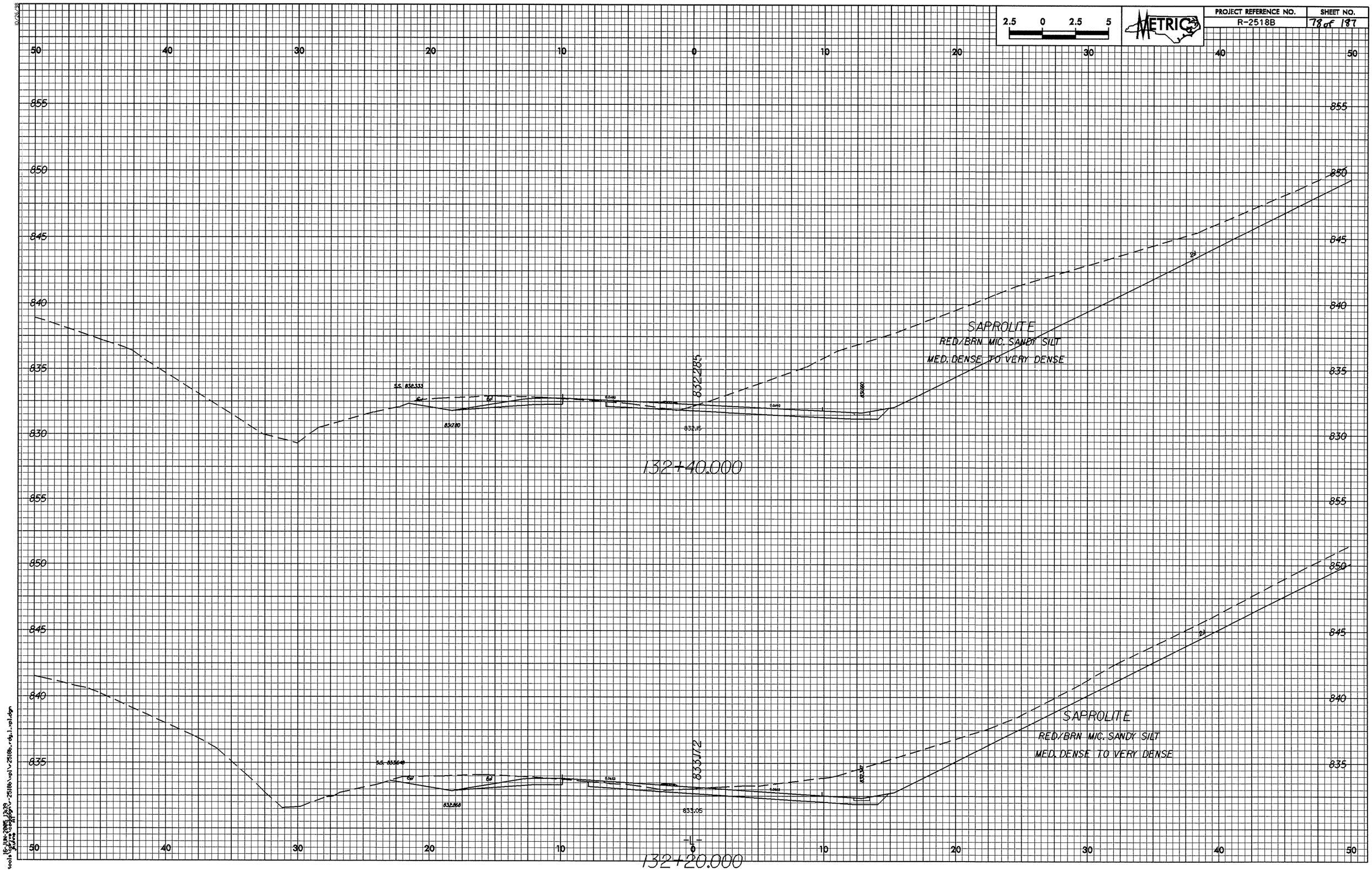
131+80.000

50 40 30 20 10 0 10 20 30 40 50

10/26/98

15-JUN-2005 12:38
C:\Documents and Settings\jtucker\Desktop\tools\2518\vpl\2518b_rdy_l_vpl.dgn

2.5 0 2.5 5	METRIC	PROJECT REFERENCE NO.	SHEET NO.
		R-2518B	78 of 187



16-JUN-2005 13:39
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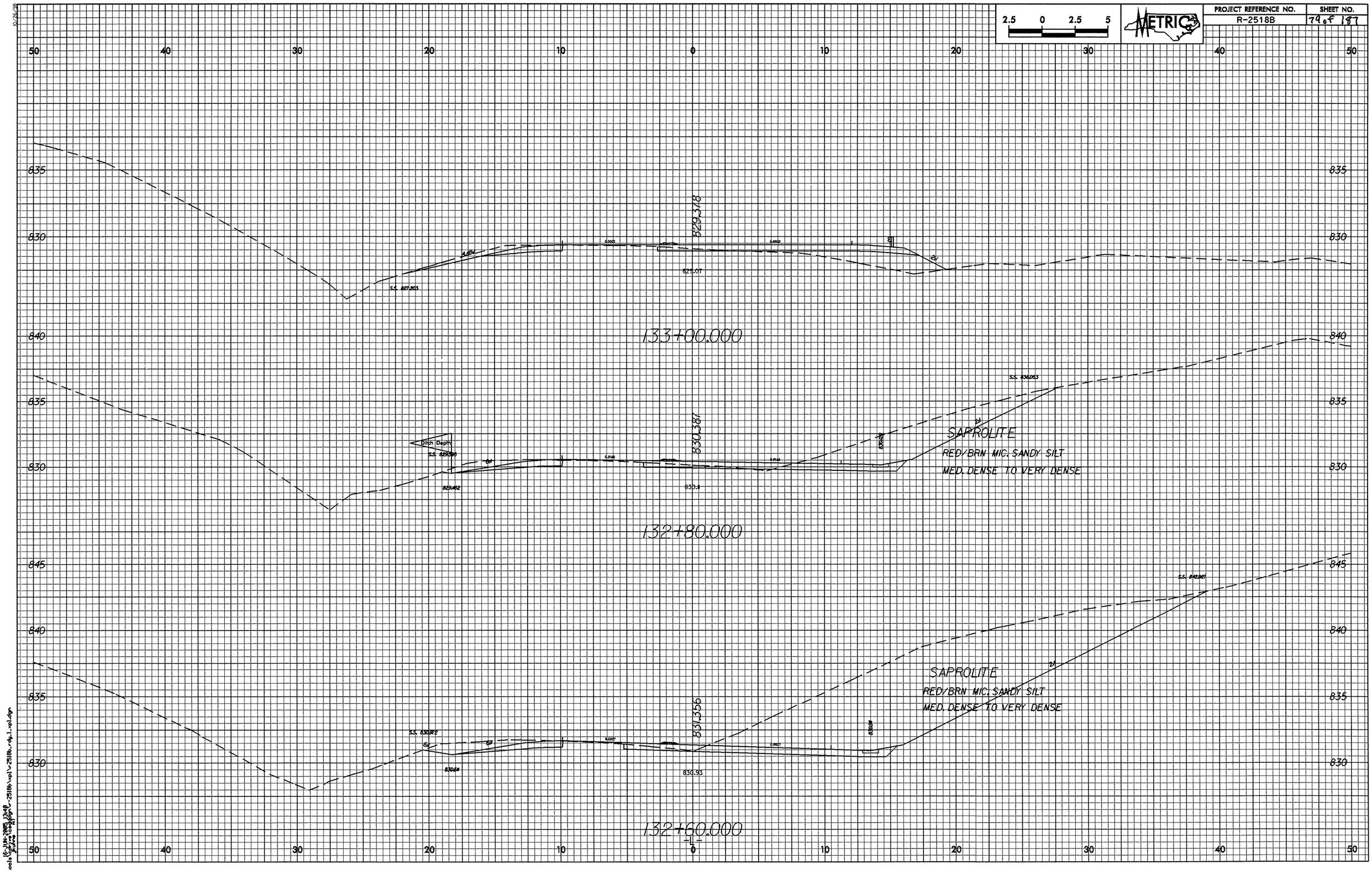


10/26/23
16-JUN-2023 13:48
User: bgaddy
File: ...\25188\col\25188_rdy_1_col.dgn

2.5 0 2.5 5	METRIC	PROJECT REFERENCE NO. R-2518B	SHEET NO. 80 of 187

10/26/05

50 40 30 20 10 0 10 20 30 40 50

825 820 815

134+40.000

822.76

822.28

822.26

825 820

134+20.000

823.26

823.55

825 820

134+00.000

824.16

824.88

825 820

133+80

32 M LT

ALLUVIUM

TAN/GRAY SANDY CLAY 5/25/04

5

133+80.000

50 40 30 20 10 0 10 20 30 40 50

15-JUN-2005 13:36
C:\Projects\R-2518b\vol1\r2518b_rdy_1_vol.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	81 of 197

2.5 0 2.5 5

50 40 30 20 10 0 10 20 30 40 50

820
815

818045
817.45
817930
816036

135+20.000

818710
818.28
818656

820
815

135+00.000

819564
818.97

134+88
14 M LT

ALLUVIUM
GRAY/BRN SILTY SAND W/ GRAVEL
5/19.04
20
16

825

134+80.000

820.487
820.18

820
815

134+60.000

50 40 30 20 10 0 10 20 30 40 50

15-JUN-2005 13:27
\\Tools\Projects\R-2518\vol1\R-2518_rdy_1_vol.dgn

10/28/98

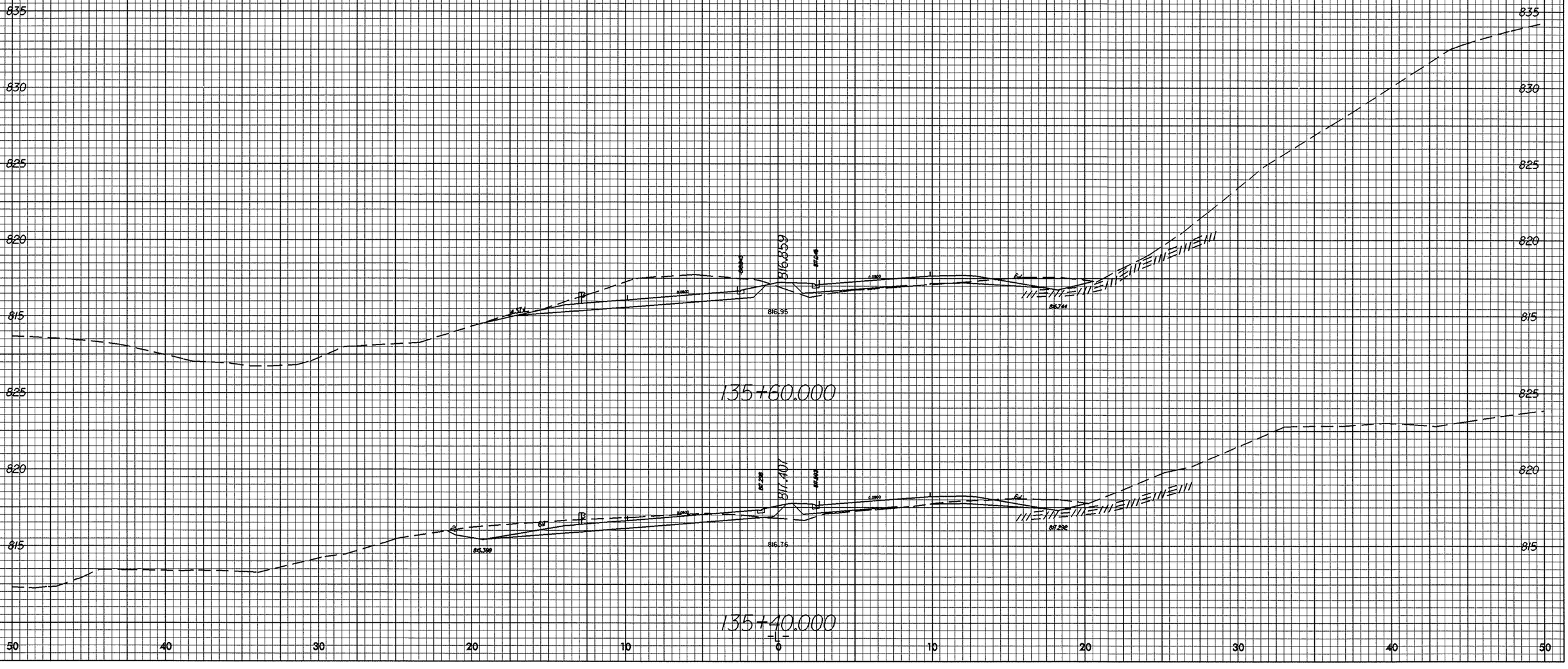
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	82 of 187

50 40 30 20 10 0 10 20 30 40 50

835 830 825 820 815



50 40 30 20 10 0 10 20 30 40 50

dgn-loc-jlw-2005_1355
dgn-loc-jlw-2005_1355
dgn-loc-jlw-2005_1355

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	83 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

835 830 825 820 815

816.028

816.01

84.40

136+00.000

816.399

816.47

135+80.000

Tool: 16.01 Dgn: 25188_vpl.dgn
User: jkmc
Date: 10-JAN-2005 13:57
File: C:\projects\R-2518B\vol\R-2518B_vpl.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	84 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

835 830 825 820 815

815.745

815.40

814.308

136+20.000

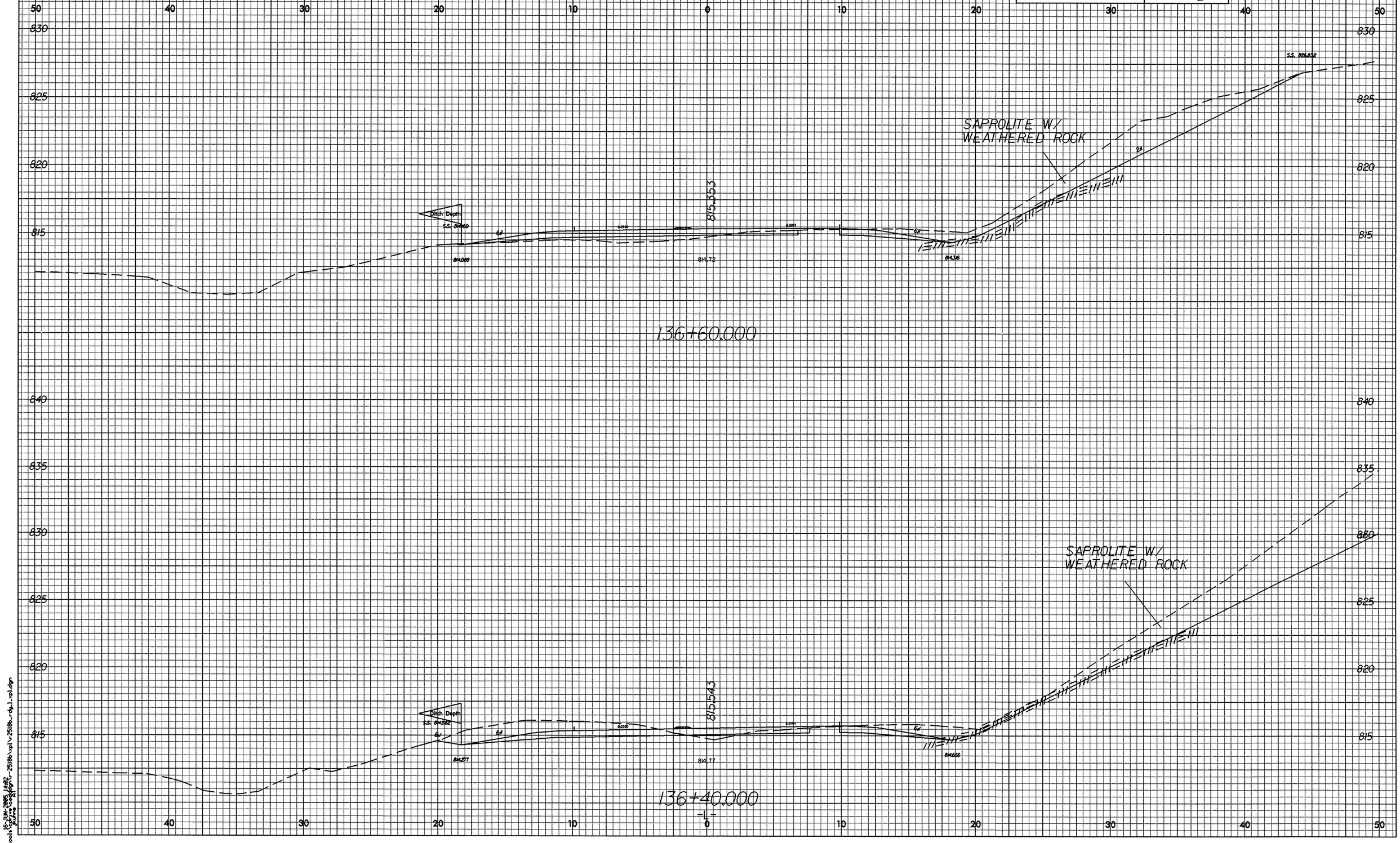
50 40 30 20 10 0 10 20 30 40 50

835 830 825 820 815

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	85 of 187

2.5 0 2.5 5

METRIC



15-JUN-2005 14:02
tools\projects\R-2518b\col\r2518b_rdy_l_col.dgn

10/26/38

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	86 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

815 810

812.354

811.92

138+40.000

812.741

RDWY FILL
SANDY SILT W/ RK FRAGS

138+11
23 M RT

ALLUVIUM
GRAY SILTY SAND W/ GRAVEL

5/14/04

2
91
49

138+20.000

813.109

138+02
20 M LT

RDWY FILL
SANDY SILT W/ RK FRAGS

3
3
100+
100+

5/18/04

ALLUVIUM 138+00.000 BLK/GRAY SILTY CLAY

813.472

812.96

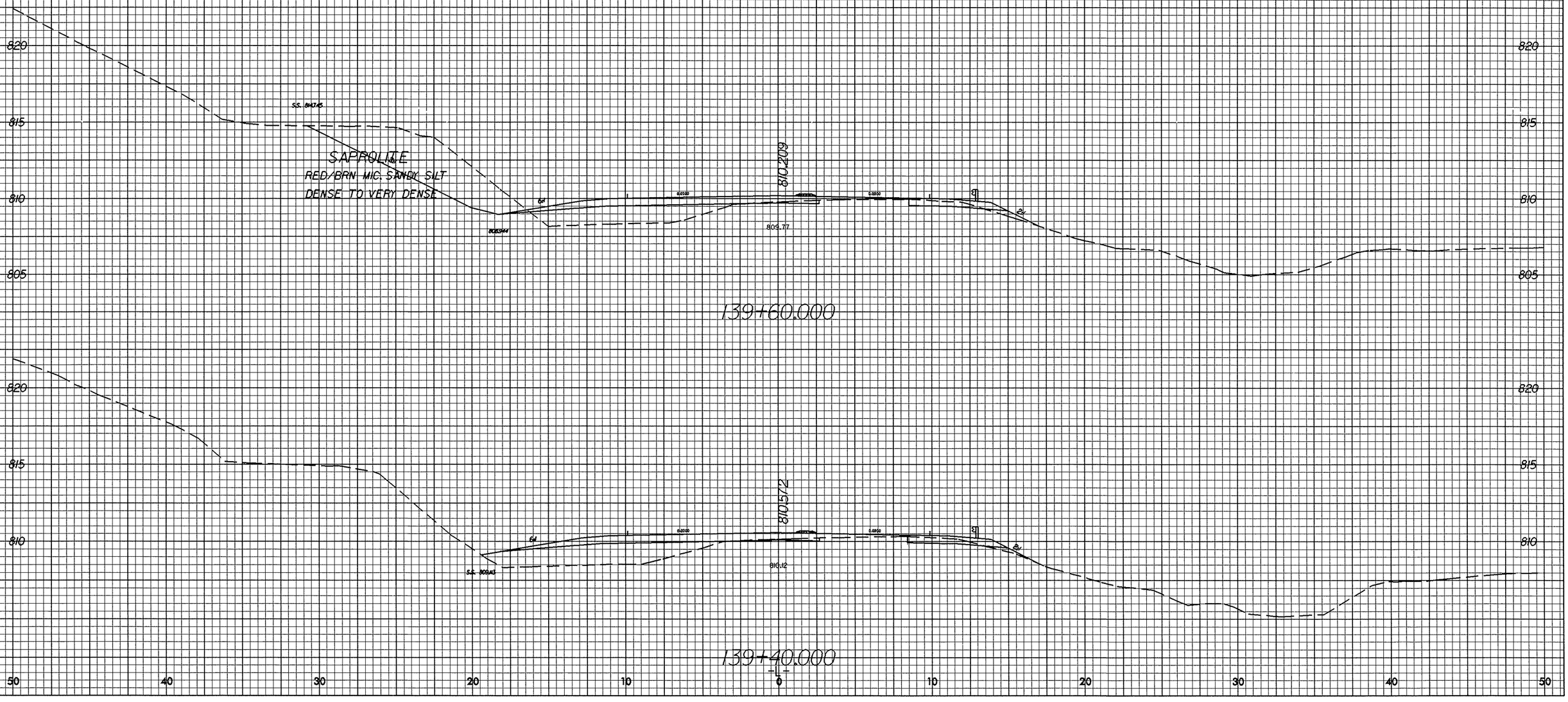
137+80.000

813.834

813.30

137+60.000

15-JUN-2005 13:44
tools \ pdgn \ r-2518b \ sht \ r-2518b_rdy_1_sht.dgn



10/26/98
15-JUN-2005 14:05
C:\Projects\R-2518B\vol1\R-2518B_rdy1.tpl.dgn

50 40 30 20 10 0 10 20 30 40 50

815 810 805

SS. 847.94

2%

SAPROLITE
RED/BRN MIC. SANDY SILT
DENSE TO VERY DENSE

807.94

6d

0.0700

809.59

0.0700

808.36

4d

0.0200

140+40.000

SS. 848.68

2%

SAPROLITE
RED/BRN MIC. SANDY SILT
DENSE TO VERY DENSE

807.86

6d

0.0700

809.27

0.0700

808.71

4d

0.0200

140+20.000

SS. 847.39

6d

SAPROLITE
RED/BRN MIC. SANDY SILT
DENSE TO VERY DENSE

808.29

809.45

809.484

809.26

0.0200

809.06

4d

0.0200

140+00.000

820 815 810 805

SS. 813.906

SAPROLITE
RED/BRN MIC. SANDY SILT
DENSE TO VERY DENSE

6d

WEATHERED RK

808.59

809.47

809.847

0.0200

809.42

4d

0.0200

139+80.000

50 40 30 20 10 0 10 20 30 40 50

10/26/18
\\ctdot.int\dfs\projects\projects_hq\highway\projects\0025188\roadway\plans\0025188_rdwy_vol.dgn
jjones

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	89 OF 187

2.5 0 2.5 5 METRIC

50 40 30 20 10 0 10 20 30 40 50

815 810 805 820 815 810 805

S.S. 807.126

4.20%

6%

807.26

806.406

1.29708

807.34

807.34

0.0020

0.0010

141+00.000

S.S. 810.810

SAPROLITE
RED/BRN MIC. SANDY SILT

2%

806.789

807.61

808.034

140+80.000

140+60
40 M LT

S.S. 810.859

9

25

SAPROLITE
RED/BRN MIC. SANDY SILT

WEATHERED RK

807.52

807.99

808.396

140+60.000

15-JUN-2005 13:48
\\tools\projects\8800\r-2518b\sht\r-2518b_rdy_1_rpl.dgn

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	98.E 187

50 40 30 20 10 0 10 20 30 40 50

825

820

815

810

805

800

795

790

SAPROLITE W/
WEATHERD RK

RED/BRN SILTY SAND
DENSE TO VERY DENSE

789.743

785.63

154+00.000

50 40 30 20 10 0 10 20 30 40 50

16-JUN-2005 14:31
k:\projects\R-2518B\sol\R2518B_rdy1_sol.dgn

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	90 of 177

50 40 30 20 10 0 10 20 30 40 50

805 800

146+10
11 M LT
5/25/04
26
6
28
ALLUVIUM
BRN/TAN SILTY SAND W/ GRAVEL
GRAY/BLK SILTY SAND
SAP.W/ WEATHERED RK
800.864
800.53
6d
146+00.000
Ditch Depth
SS. 799.99
799.828
801.094
800.71
145+80.000
SS. 796.878
801.323
800.91
145+60.000
SS. 802.233
801.553
800.287
801.11
145+40.000

15-JUN-2005 13:53
tools \projects\R-2518b\plan\r-2518b_rdy_1.opl.dgn

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

800 795

150+67 12 M LT

RDWY FILL -Y- LINE

795.582

RDWY FILL

795.41

15 ALLUVIUM GRAY/TAN SILTY CLAY

5 SAPROLITE GRAY/BLK SILTY SAND

88

100+ WEATHERED RK

150+60.000

795.932

5.854

795.58

150+40.000

796.231

5.574

795.96

150+20.000

796.531

5.414

796.29

150+00.000

805 800 795

50 40 30 20 10 0 10 20 30 40 50

10/26/88

15-JUN-2007 13:57 caddgn:\proj\2518b-rdy-1.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	92 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

810

805

800

795

790

794.814

794.63

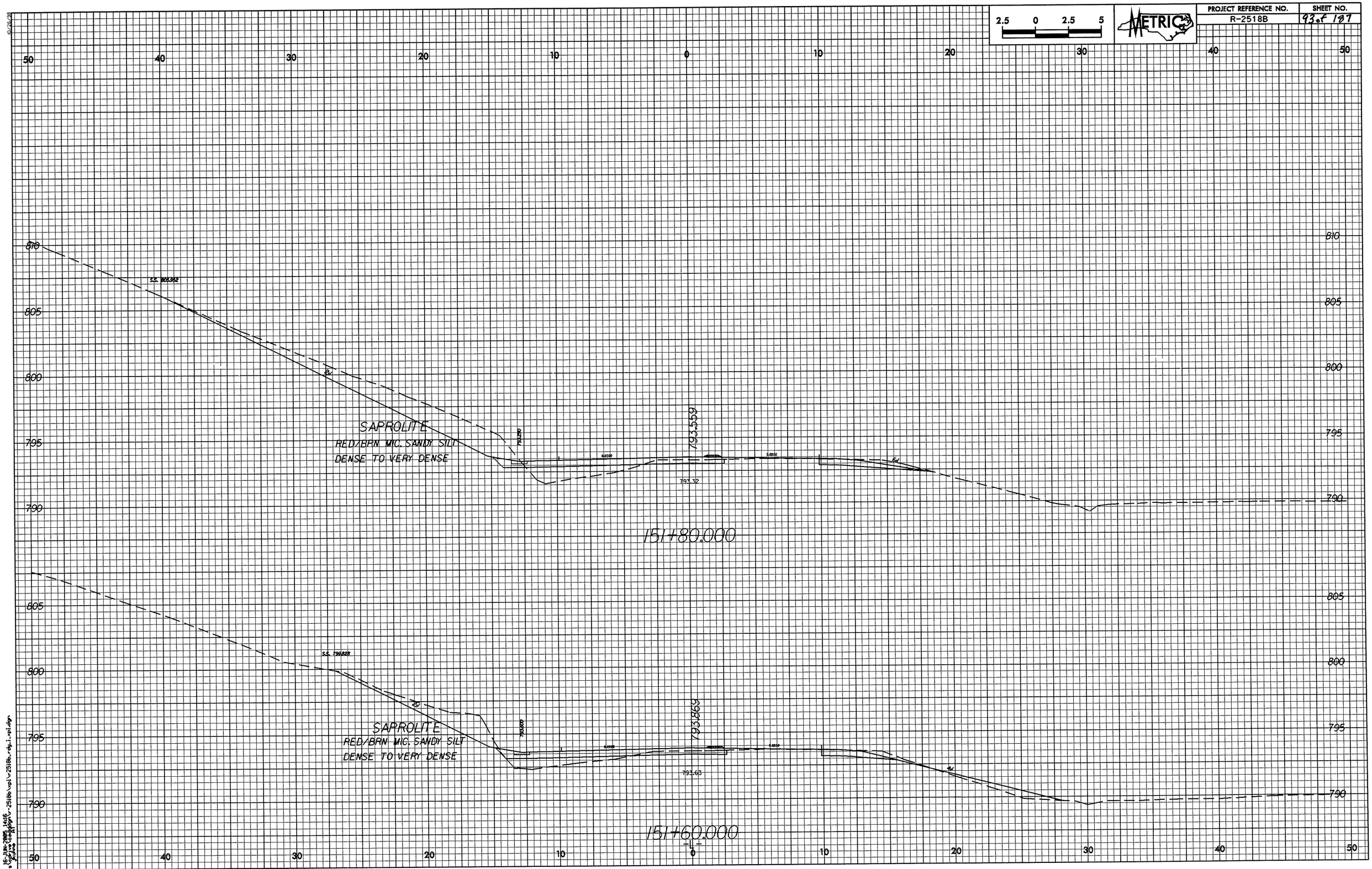
794.228

794.96

151+00.000

150+80.000

\\ecl-jlw-2005.ktic\projects\r-2518b\rpl\r-2518b_rdy_l_rpl.dgn
jlwww
11:41



16-JUN-2005 14:16
tools \projects\r-2518b\opl\r-2518b_rdy_1.opl.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	44-F (87)

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

810 805 800 795 790

SS 8X32

SAPROLITE
RED/BRN MIC. SANDY SILT
DENSE TO VERY DENSE

792.44

1792939

152+20.000

815 810 805 800 795 790

SAPROLITE
RED/BRN MIC. SANDY SILT
DENSE TO VERY DENSE

793.01

1793249

152+00.000

50 40 30 20 10 0 10 20 30 40 50

15-JUN-2005 14:17
tools 20.0(2005.1)
$(USERNAME)
$(USERPROFILE)\Desktop\r-2518b\vol1\r-2518b_dgn_1_vol.dgn

2.5 0 2.5 5

50 40 30 20 10 0 10 20 30 40 50

810 805 800 795 790

792.352

792.337

792.294

791.93

152+60.000

SS. 805711

SAPROLITE
RED/BRN MIC. SANDY SILT
DENSE TO VERY DENSE

792.637

792.23

152+40.000

10/26/98
10:JUN-2005 dgn
\roll\c\2005_dgn\R-2518\rpl\R-2518\rpl\R-2518\rpl.pl dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	96 of 187

50 40 30 20 10 0 10 20 30 40 50

805

800

795

790

SAPROLITE

RED/TAN MIC. SANDY SILT
DENSE TO VERY DENSE

SS 795.518

24"

790.884

790.74

789.486

15.3+40.000

805

800

795

790

SS 794.429

791.268

791.12

790.003

SS 789.361

15.3+20.000

50 40 30 20 10 0 10 20 30 40 50

16-JUN-2005 14:27
tools:c:\projects\r-2518b\col\r-2518b_rdy_1_col.dgn

10/26/98

2.5	0	2.5	5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	97 OF 187

50 40 30 20 10 0 10 20 30 40 50

815 810 805 800 795 790

153+80
30 M LT

SAPROLITE
RED/BRN SILTY SAND

100+

64

785.354 785.321 790.14 790.268

790.10

153+80.000

805 800 795 790

SAPROLITE
RED/TAN MIC. SANDY SILT
DENSE TO VERY DENSE

64

785.922 790.389 790.427 790.499

790.40

153+60.000

50 40 30 20 10 0 10 20 30 40 50

15-JUN-2005 14:28
c:\projects\r-2518b\vol1\r2518b_rdy1_vol.dgn
Bentley Systems

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	100 of 187

156+64
14' M LT
RDWY FILL
786.31
5/26/04
12
3
29
ALLUVIUM GRAY SILTY SAND W/ GRAVEL
SAPROLITE BRN/TAN SANDY SILT

156+65
15' M RT
5/26/04
4
21
34

156+60.000
186.754
786.63

156+40.000
187.017
786.90
SS 785.473

156+20.000
187.357
787.15
SS 785.709

156+00.000
187.567
787.39
SS 786.085

155+80.000

790
785
50 40 30 20 10 0 10 20 30 40 50

dgn\rdwy_rdwy1.dgn
10/26/05 15:14:24
c:\projects\r-2518b\rdwy\r-2518b_rdwy1.dgn

10/26/98

2.5	0	2.5	5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	9 of 187

50 40 30 20 10 0 10 20 30 40 50

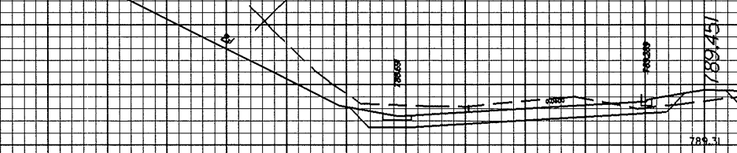
805 800 795 790 785

154+40.000

810 805 800 795 790 785

SAPROLITE
RED/TAN MIC. SILTY SAND
DENSE TO VERY DENSE

SS 795.87



154+20.000

50 40 30 20 10 0 10 20 30 40 50

dgn=1-typ-r-2518b-25182\vol\25182\vol\25182-282-MM-(GS).dgn

10/26/95

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	101 of 187

50 40 30 20 10 0 10 20 30 40 50

810 805 800 795 790 785

SAPROLITE W/
WEATHERED ROCK
DENSE TO VERY DENSE

783.892

Ditch Depth
SS. 782.676

782.456

783.38

157+80.000

784.411

Ditch Depth
SS. 782.813

782.601

783.86

157+60.000

SS. 785.445

783.998

15-JUN-2005 14:49
\\tools\projects\proj\v-2518b\vpi\v-2518b_rdy1.vpi.dgn
\\tools\projects\proj\v-2518b\vpi\v-2518b_rdy1.vpi.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	102 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

820

815

SAPROLITE W/
WEATHERED ROCK
DENSE TO VERY DENSE

810

805

800

795

790

785

783.343

782.96

158+00.000

SS 782.85

782.885

50 40 30 20 10 0 10 20 30 40 50

IC-UK-2005 14:58
Plot Scale: 1.000 '/ Inch
Plot Date: 10/26/98
C:\projects\2518\roll\r2518b_dgn_1_roll.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	103 of 187

50 40 30 20 10 0 10 20 30 40 50

830 825 820 815 810 805 800 795 790 785

SAPROLITE W/
WEATHERED ROCK

DENSE TO VERY DENSE

782.875

782.854

0.0029

0.0029

782.68

782.778

SS 782.738

158+20.000

-L-

50 40 30 20 10 0 10 20 30 40 50

15-JAN-2015 14:52
$cell_name
$plot_name
$plot_scale
$plot_offset
$user_name
tools $dgnfile ...\R-2518B\vol1\R-2518B_rdy_1_vol.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	104 of 137

2.5 0 2.5 5

50 40 30 20 10 0 10 20 30 40 50

835 830 825 820 815 810 805 800 795 790 785

SAPROLITE W/
WEATHERED ROCK

DENSE TO VERY DENSE

782.495

782.43

Ditch Depth
782.739

782.558

158+40.000

kool 16-JUN-2005 14:53
$USER [DESIGN.PROF]--2518b\roj\r2518b_rdy1.roj.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	105 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

795 790 785 780

SAPROLITE W/
WEATHERED ROCK

DENSE TO VERY DENSE

781.66

0.50%

781.94

Ditch Depth

SS. 781.09

6:1

781.23

158+80.000

810 805 800 795 790 785

SAPROLITE W/
WEATHERED ROCK

DENSE TO VERY DENSE

782.02

6:1

0.25%

1%

782.19

SS. 781.353

158+60.000

50 40 30 20 10 0 10 20 30 40 50

16-JUN-1998 14:54
tools\cgs\pwadm\pwad1.pl \\Pwad\proj\2518\vol1\2518b_rdy1_vol.dgn

10/26/95

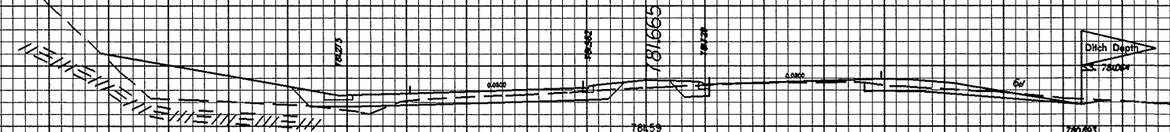
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	106 of 187

50 40 30 20 10 0 10 20 30 40 50

805
800
795
790
785
780



159+60.000

50 40 30 20 10 0 10 20 30 40 50

Plotted: 13-JUN-2003 14:55
By: ***********
Workspace: i:\projects\25180\vol1\25180_r4p1_vol.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	107 of 187

50 40 30 20 10 0 10 20 30 40 50

815

810

805

800

795

790

785

780

SAPROLITE W/
WEATHERED ROCK

DENSE TO VERY DENSE

159+80.000

50 40 30 20 10 0 10 20 30 40 50

dgn:\01-24-2007 08:58:47 jmcgee
c:\projects\2518b\roh\r-2518b_rdy1.dgn

10/26/96

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	108 OF 187

50 40 30 20 10 0 10 20 30 40 50

815

810

805

800

795

790

785

780

SAPROLITE W/
WEATHERED ROCK

DENSE TO VERY DENSE

781.865

160+00.000

-L-

50 40 30 20 10 0 10 20 30 40 50

16-JAN-2005 14:59
jkuhn
tools\geopak\projects\r-2518b\cal\r-2518b_rdy_l_sht.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	109 OF 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

795 790 785 780 775

180.601

780.31

5.5% 4.5%

SS 778332

162+60.000

785 780 775

180.748

780.43

5.5% 4.5%

SS 778682

162+40.000

785 780

180.895

162+30

12 M LT

RDWY FILL

SANDY SILT W/ RK FRAGS

ALLUVIUM

BLK/GRAY SILTY SAND W/ GRAVEL

5/27/04

3

(100 ft)

SAP. & WEATHERED RK

5.5% 4.5%

SS 778780

162+20.000

50 40 30 20 10 0 10 20 30 40 50

16-JUN-2005 15:09
tools\projects\r-2518b\vol1\r-2518b_rdy_1_sp1.dgn
jgurss

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	110 of 187

50 40 30 20 10 0 10 20 30 40 50

805

805

800

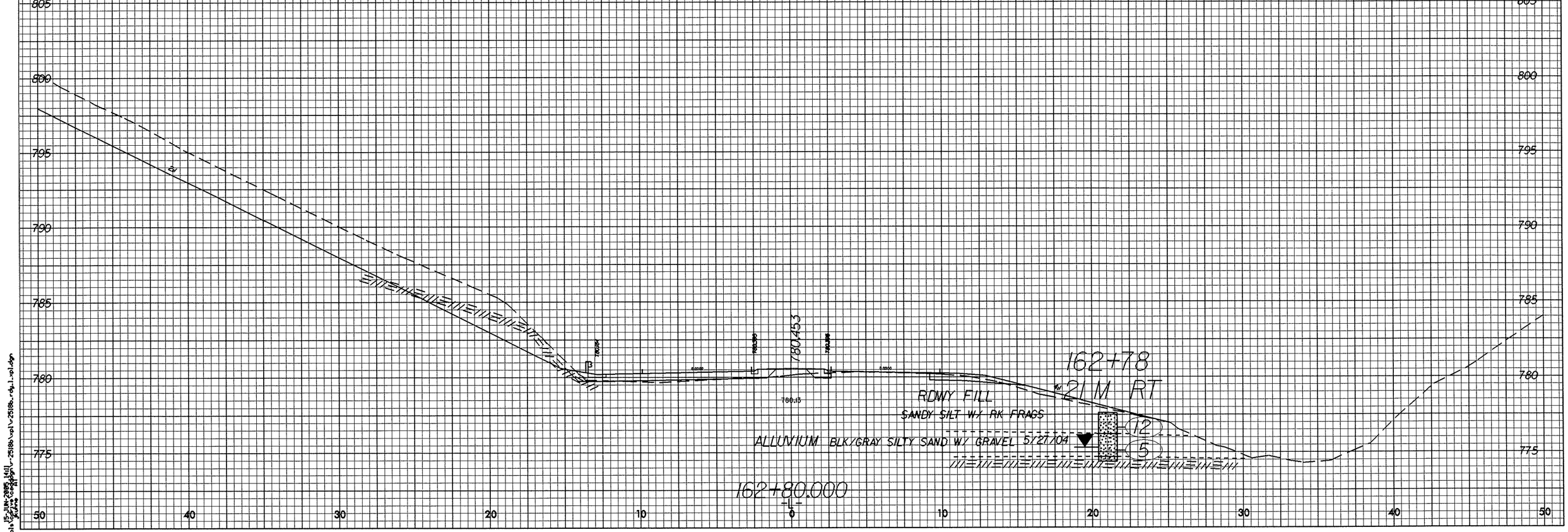
795

790

785

780

775



15-JUN-2005 14:11
tools \projects\proj\r-2518b\vpl\r-2518b_rdy1_vpl.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	111 of 187

50 40 30 20 10 0 10 20 30 40 50

815

810

805

800

795

790

785

780

775

163+00

35 M LT

(100+)

SAPROLITE

GRAY/BRN MIC. SANDY SILT

WEATHERED RK

180.306

775.97

163+00.000

50 40 30 20 10 0 10 20 30 40 50

15-JUN-2005 14:13
tools\projects\dgn\V-2518b\vol1\r2518b_rdy_1_rpl.dgn

10/26/38

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	112 of 187

50 40 30 20 10 0 10 20 30 40 50

820 815 810 805 800 795 790 785 780 775

SAPROLITE
RED/BRN. MIC. SANDY SILT
MED.TO VERY DENSE

WEATHERED ROCK

180.59

775.80

SS 779.303

775.80

775.80

775.80

163+20.000

50 40 30 20 10 0 10 20 30 40 50

17-JUN-2005 10:01
tools\proj\v2518b_rdy_1_vol.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	113 of 189

50 40 30 20 10 0 10 20 30 40 50

820 815 810 805 800 795 790 785 780 775

SAPROLITE

RED/BRN. MIC. SANDY SILT

MED. TO VERY DENSE

WEATHERED ROCK

780.012

779.70

-L-

163+40.000

50 40 30 20 10 0 10 20 30 40 50

Users\jjohnson\projects\2518b\vol1\2518b_rdy_1_xsl.dgn
17-JUN-2005 08:03
jjohnson

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	114 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

815 810 805 800 795 790 785 780

163+60
55 M RT

17
31
30
44
100+
79
100+

FOLD LINE

ROCK REFUSAL

SAPROLITE
RED/BRN MIC. SANDY SILT W/ MnO

WEATHERED RK W/ SAPROLITE SEAMS

MIC. SANDY SILT

779.864

779.57

Ditch Depth

163+60.000

15-JUN-2005 14:15
tools\cadd\projects\r-2518b\vpl\r-2518b_rdy_l_vpl.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	115 of 187

50 40 30 20 10 0 10 20 30 40 50

810

805

800

795

790

785

780

SAPROLITE
TAN/BRN MIC. SANDY SILT
MED. DENSE TO VERY DENSE

WEATHERED ROCK

EL

779.49

779.41

779.77

0.0100

0.0000

Ditch Depth

SS 778.50

GR

778.92

16.3+80.000

tools\12-JUN-2005_08:18
c:\projects\r-2518b\vol1\r2518b_rdy_1.sol.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	116 of 197

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

790 785 780 775

SS. 790740

SAPROLITE
TAN/BRN MIC. SANDY SILT
MED. DENSE TO VERY DENSE

WEATHERED ROCK

779459

6d

0.0700

0.0850

4d

776.84

779.13

164+20.000

800 795 790 785 780

SAPROLITE
TAN/BRN MIC. SANDY SILT
MED. DENSE TO VERY DENSE

WEATHERED ROCK

795139

779510

0.0700

0.0850

4d

779.26

164+00.000

50 40 30 20 10 0 10 20 30 40 50

10/26/98
tools "Z:\INFRASTRUCTURE\projects\2518b\roll\r-2518b_rdy_1_sol.dgn"
17-JUN-2005 08:52
$$USER

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	117 of 187

50 40 30 20 10 0 10 20 30 40 50

780
775

178.86
178.49

165+20.000

178934
176.63

165+00.000

164+90
22 M LT

179081
178.76
RDWY FILL
ALLUVIUM RED/BRN SILTY SAND W/ GRAVEL
SAPROLITE
RED/BRN MIC. SANDY SILT
WEATHERED ROCK

6/1/04
17
13
59

164+90
23 M RT
7
43
100+

164+80.000

Ditch Depth
SS. 778029
177.963

179229
176.90

164+60.000

SS. 780450

179358
178.002
175.04

164+40.000

15-JUN-2005 14:16
User: ...
File: ...\r-2518b...-dp.1.dgn

2.5 0 2.5 5

METRIC

9/26/98

50 40 30 20 10 0 10 20 30 40 50

775 770 765

-112- INTERSECTION

0.0300 0.0550

770.917

770.80

4:1

172+60.000

775 770 765

771.287

771.05

SR 2112- STA 10+70

2:1

4:1

172+40.000

775 770 765

771.459

771.28

RDWY FILL

ALLUVIUM MIC. SILTY SAND W/ GRAVEL

172+20

25 M RT

5/27/04

172+20.000

775 770 765

771.838

771.46

172+00.000

50 40 30 20 10 0 10 20 30 40 50

15-JUN-2005 14:17
tools\cfg\wse\dgnlib\v-25186\.opl\v-25186.rdy1.opl.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	119 of 187

2.5 0 2.5 5

50 40 30 20 10 0 10 20 30 40 50

770 765

175+13
12 M RT
768.769
RDWY FILL
761.35
ALLUVIUM
BRN/TAN MIC. SILTY SAND W/ RK FRAGS
7/26/04
WEATHERED ROCK
8
16
2
175+20.000
768.031
767.61

175+00.000
768.293
761.80

174+80.000
768.556
761.99

174+60.000

15-JAN-2005 14:19
\\ctdot.ctdot.net\projects\25180\col\r-2518b_dgn_l_sht.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	120 of 151

50 40 30 20 10 0 10 20 30 40 50

770 765

176+01
12' M RT
766.25
RDWY FILL
ALLUVIUM GREY SANDY SILT W/ RK FRAGS
1
2
4
33
7/27/04
176+00.000
766.22

175+93
12' M RT
Ditch Depth
766.66
16
6
19
68
74
50
86
61
100+
100+
80
SAPROLITE
RED/BRN MIC. SANDY SILT
WEATHERED ROCK

766.52

175+80.000
167.245
766.73

175+60.000
167.507
767.03

175+40.000

\\ols15\JMX\2005_1428\
Plotted: 15-JUN-2005 14:28
\\ols15\JMX\2005_1428\Proj\R-2518B\sp1\R-2518B_rdy1_sp1.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	12 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

780 775 770 765

179+20.000

772.36 771.54 771.75 770.870

SAPROLITE
BRN./TAN MIC. SANDY SILT
MED. DENSE TO DENSE

S.S. 773.060

-Y15- INTERSECTION

771.67 770.91

SAPROLITE
BRN./TAN MIC. SANDY SILT
MED. DENSE TO DENSE

S.S. 773.059

179+00.000

770.283 769.97

-Y14- INTERSECTION

178+80.000

769.483 769.18

Ditch Depth

S.S. 768.806

768.152

178+60.000

10/26/98

17-JUN-2005 10:17
jpierce
c:\projects\projects_-_2518b\col\r2518b_rdy_1_col.dgn
tools\colorschemes\color.tbl

10/26/38

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	122 of

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

780 775 770

180+00.000

776.276

776.17

SS. 779.386

SAPROLITE
BRN/TAN MIC. SANDY SILT
MED. DENSE TO DENSE

774.874

775.240

775.07

SS. 774.777

SS. 778.91

773.975

179+80.000

774.204

773.94

179+60.000

773.168

772.79

SS. 777.213

SAPROLITE
BRN/TAN MIC. SANDY SILT
MED. DENSE TO DENSE

772.288

771.903

179+40.000

50 40 30 20 10 0 10 20 30 40 50

780 775 770

tools 17-JUN-2005 08:13
$cuser $cdrive:\projects\projects\2518b\roll\2518b_rdy_1_rpl.dgn

10/26/38

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	123 of 137

50 40 30 20 10 0 10 20 30 40 50

790
785
780

SS. 784.542

SS. 781.575

SAPROLITE
BRN/TAN MIC. SANDY SILT
MED. DENSE TO DENSE

179.221

6d

0.0450

0.0450

778.728

779.14

777.623

180+60.000

785
780

SS. 781.04

SS. 779.303

2.85%

SAPROLITE
BRN/TAN MIC. SANDY SILT
MED. DENSE TO DENSE

178.292

6d

0.0350

0.0450

777.800

778.16

776.695

180+40.000

785
780
775

SS. 782.88

SAPROLITE
BRN/TAN MIC. SANDY SILT
MED. DENSE TO DENSE

177.301

6d

0.0446

0.0446

777.19

776.735

180+20.000

50 40 30 20 10 0 10 20 30 40 50

17-JUN-2005 10:29
tools\projects\r-2518b\sol\r2518b_rdy_1_sol.dgn

10/26/98

2.5 0 2.5 5	METRIC	PROJECT REFERENCE NO.	SHEET NO.
		R-2518B	124 of 187

50 40 30 20 10 0 10 20 30 40 50

800
795
790
785
780

S.S. 790803

SAPROLITE
BRN/TAN MIC. SANDY SILT
MED. DENSE TO DENSE

6d

780.45

780.87

779.54

780108

181+00.000

SAPROLITE
BRN/TAN MIC. SANDY SILT
MED. DENSE TO DENSE

23

S.S. 790481

SAPROLITE
BRN/TAN MIC. SANDY SILT
MED. DENSE TO DENSE

779.20

780.03

778.95

780093

180+80.000

50 40 30 20 10 0 10 20 30 40 50

17-JUN-2008 11:26
tools\cadd\dgn\25180\col\r2518b_r_dy_1_col.dgn

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

800 795 790 785 780

782.368

782.35

780.771

SAPROLITE

BRN/WHT MIC. SANDY SILT

181+40.000

181+20

42 M RT

19
10
13
13
11
20
29

SS. 793.940

781.666

781.63

780.069

SAPROLITE

BRN/WHT MIC. SANDY SILT

181+20.000

15-JUN-2005 14:22
c:\projects\25180\col\25180_rdy_1.pl.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	126 of 197

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

805 800 795 790 785

SAPROLITE
GRAY/RED/BRN MIC.
SANDY SILT
MED. DENSE TO DENSE

6d 2d 2d 6d

0.0300 0.0650

783.603

783.40 783.60 782.005

181+80.000

800 795 790 785

SAPROLITE
GRAY/RED/BRN MIC.
SANDY SILT
MED. DENSE TO DENSE

6d 2d 2d 6d

0.0300 0.0650

783.014

782.521 782.97 782.416

181+60.000

50 40 30 20 10 0 10 20 30 40 50

\\ctdot\proj\Preconstruction\2518\Vol1\2518b_rdy1.xpl.dgn
17-JUN-2005 11:28
jlong

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	127 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

805 800 795 790 785

SAPROLITE
GRAY/RED/BRN MIC.
SANDY SILT

6V

1

0.0400

784.59

784.50

784.52

784.58

783.03

182+20.000

182+00
64 M LT

8
7
17
22
48
32
53

SAPROLITE
GRAY/RED/BRN MIC.
SANDY SILT

FOLD LINE FOR 182+00

60 50

784.42

784.08

784.35

784.26

783.00

782.53

182+00.000

182+00
48 M RT

1
10
13
16
20
25
38
100+

SAPROLITE
GRAY/RED/BRN MIC.
SANDY SILT

15-JUN-2005 14:24
tools\projects\r-2518b\spl\r-2518b_rdy_1_spl.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	128 of 187

2.5 0 2.5 5

METRIC

10/26/88

50 40 30 20 10 0 10 20 30 40 50

800 795 790 785

S.S. 790.26

SAPROLITE
GRAY/RED/BRN MIC.
SANDY SILT
DENSE

784869

785.23

783794

S.S. 798.29

860 795 790 785

SAPROLITE
GRAY/RED/BRN MIC.
SANDY SILT
DENSE

182+60.000

805 800 795 790 785

SAPROLITE
GRAY/RED/BRN MIC.
SANDY SILT
DENSE

784536

784.88

785432

182+40.000

805 800 795 790 785

50 40 30 20 10 0 10 20 30 40 50

17-JUN-2005 11:38
jpeterson
c:\projects\2518b\roll\r-2518b_rdy1_rpl.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	129 OF 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

790 785 780

183+20.000

L

0.0050

0.0050

185.946

785.89

785.69

784.540

784.549

S.S. 786.593

S.S. 789.240

SAPROLITE

GRAY/RED/BRN MIC. SANDY SILT

DENSE

183+00.000

795 790 785

S.S. 790.065

S.S. 793.020

SAPROLITE

GRAY/RED/BRN MIC. SANDY SILT

DENSE

185.691

785.804

785.47

784.450

182+80.000

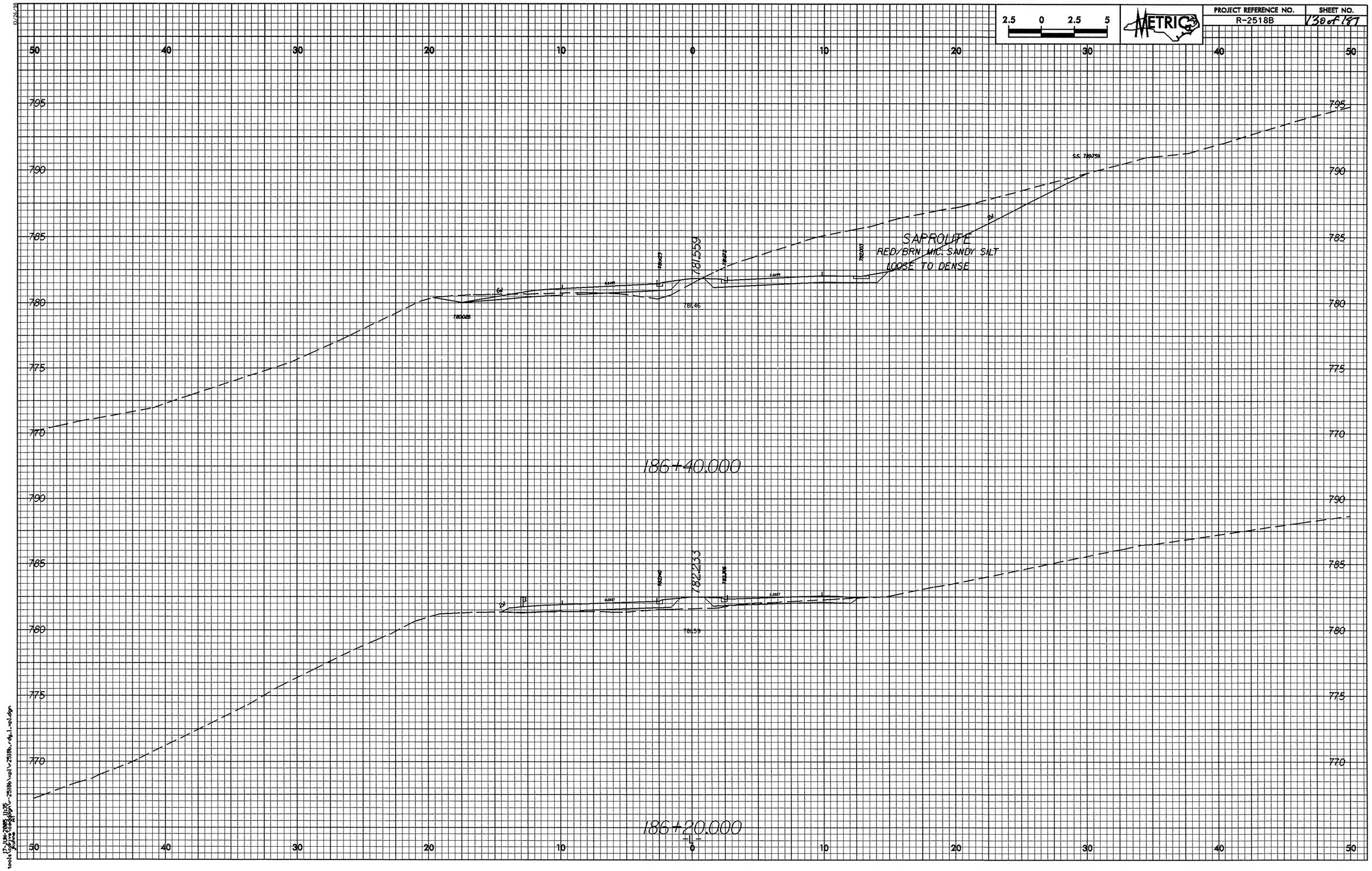
50 40 30 20 10 0 10 20 30 40 50

11-JUN-2005 11:32
k:\projects\8.2005\r-2518b\col\r-2518b_rdy_l_sht.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	130 of 187

2.5 0 2.5 5

METRIC



10/26/2006
17-JUN-2005 11:35
tools\projects\R-2518B\col\r-2518b_rdy_1_col.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	131 of 187

50 40 30 20 10 0 10 20 30 40 50

800 795 790 785 780 775

800

795

790

785

780

775

SS. 790.860

SAPROLITE
RED/BRN MIC. SANDY SILT
LOOSE TO DENSE

780.885

780.70

771.809

186+60.000

50 40 30 20 10 0 10 20 30 40 50

c:\projects\2518b\plan\2518b_rdy_1.dgn
17-OCT-1998 12:17
jsmith

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	132 of 137

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

800 795 790 785 780 775

186+80
22 M RT

6
14
19
39
73
100+
100+

SAPROLITE
RED/BRN MIC. SANDY SILT

WEATHERED ROCK

780211

778393

186+80.000
-L-

50 40 30 20 10 0 10 20 30 40 50

800 795 790 785 780 775

15-JUN-2005 14:04
C:\projects\2005\R-2518b\col\r2518b_rdy_1_col.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	133 OF 197

50 40 30 20 10 0 10 20 30 40 50

800 795 790 785 780 775

SAPROLITE
RED/BRN. MIC. SANDY SILT
MED. DENSE TO DENSE

WEATHERED ROCK

Ditch Depth
S.S. 777.30

6d

0.07%

0.07%

7.00%

7.00%

7.00%

779.31

777.79

779.53

187+00.000

17-JUN-2005 11:28
kwee
c:\projects\r-2518b\cal\r-2518b_dgn_l_sht.dgn

10/28/98

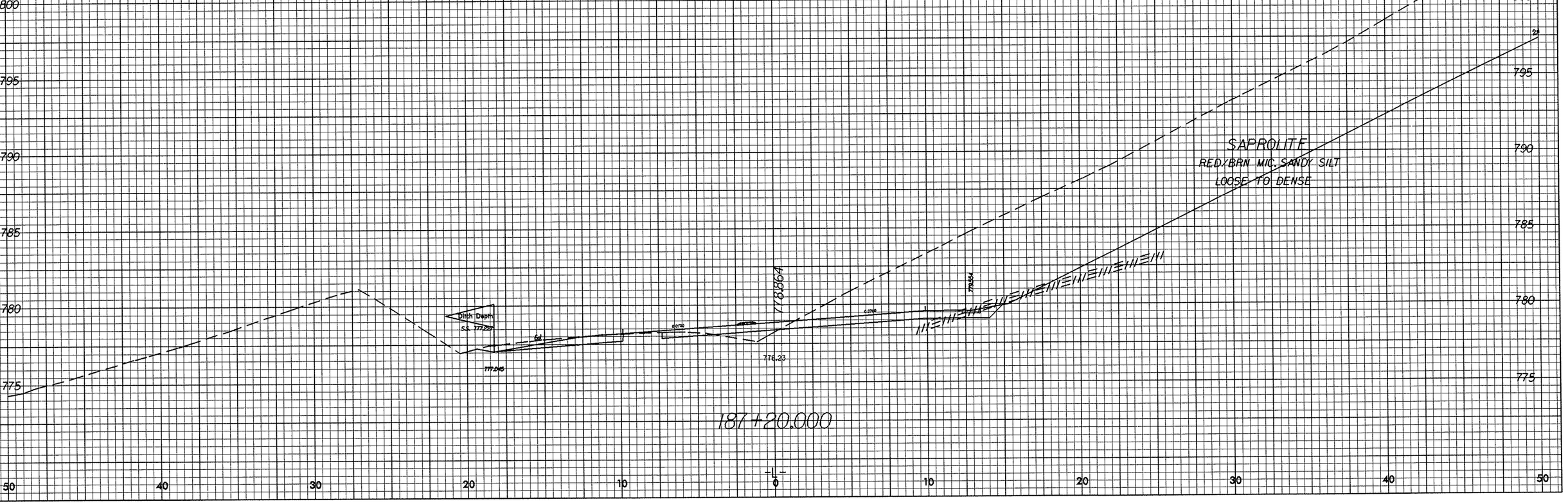
2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	134 of 187

50 40 30 20 10 0 10 20 30 40 50

815 810 805 800 795 790 785 780 775



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tools\cadd\dgn\R-2518B\vol1\R-2518B_rdy_1_rpl.dgn
18-JUL-2005 08:09

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	136 of 187

50 40 30 20 10 0 10 20 30 40 50

825 820 815 810 805 800 795 790 785 780 775

Ditch Depth
SS. 776.75

776.37

6.0%

6.0%

6.0%

178.90

779.18

SAPROLITE
RED/BRN MIC. SANDY SILT
LOOSE TO DENSE

187+40.000

18-JUL-2005 8:08
tools\projects\Design\r-2518b\plt\r2518b_rdy_1_plt.dgn

10/26/88

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	136-F 187

187+60
98 M RT

5
3
6
7
6
9
15
15

SAPROLITE
RED/BRN MIC. SANDY SILT

FOLD LINE FOR 187+60

SAPROLITE
RED/BRN MIC. SANDY SILT

Ditch Depth

6d

0.0700

0.0700

777.516

776.698

776.48

187+60.000

50 40 30 20 10 0 10 20 30 40 50

825 820 815 810 805 800 795 790 785 780 775

60 70 80 90 100

800 795 790 785 780 775

File: c:\projects\r-2518b\vol1\r-2518b_r-p-1_vol.dgn
User: jmcdaniel
Date: 8-JUL-2003 08:03

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	137 of 187

50 40 30 20 10 0 10 20 30 40 50

820
815
810
805
800
795
790
785
780
775

SAPROLITE
RED/BRN MIC. SANDY SILT
LOOSE TO DENSE

6:1

775.024

775.177

776.842

777.431

187+80.000

50 40 30 20 10 0 10 20 30 40 50

10-JUL-2005 15:04
c:\projects\r-2518b\vol1\r-2518b_rdy_l_xsl.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	138 of 187

50 40 30 20 10 0 10 20 30 40 50

815 810 805 800 795 790 785 780 775 770

SAPROLITE
RED/BRN MIC. SANDY SILT
LOOSE TO DENSE

SS 778.634

6d

774.350

776.169

776.22

776.899

188+00.000

-L-

50 40 30 20 10 0 10 20 30 40 50

815 810 805 800 795 790 785 780 775 770

18-JUL-2005 09:05
tools\geopak\projects\r-2518b\xsl\r2518b_rdy_1_xsl.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	139 of 187

50 40 30 20 10 0 10 20 30 40 50

800 795 790 785 780 775 770

SAPROLITE
RED/BRN MIC. SANDY SILT
LOOSE TO DENSE

SS 776.00Z

775.676

774.71

775.495

776.06

188+20.000

50 40 30 20 10 0 10 20 30 40 50

10/26/98 15:11:28 S:\Projects\2518\roadway\2518b_rdwy_1.rpl.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	140 of 197

795

795

SS. 772970

SAPROLITE
RED/BRN MIC. SANDY SILT
LOOSE TO DENSE

774.87

772.42

774.01

6%

6%

790

785

780

775

770

188+40.000

-L-

18:18:2005 09:07
tools\drive\c0\pgm\v-25\80\vpl\v-25\80_rdy_i_vpi.dgn

10/25/98

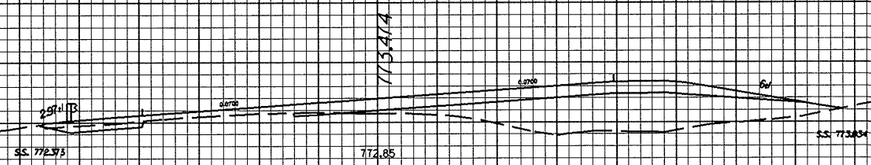
2.5	0	2.5	5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	148 of 187

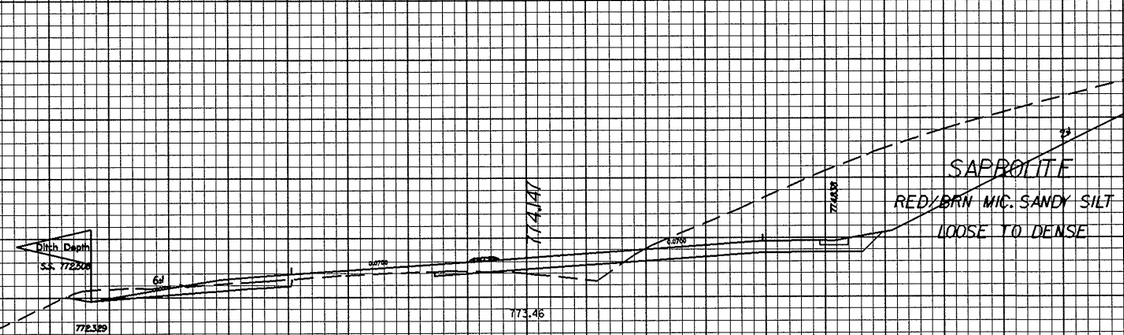
50 40 30 20 10 0 10 20 30 40 50

780 775 770 765



188+80.000

785 780 775 770 765



188+60.000

50 40 30 20 10 0 10 20 30 40 50

17-JUN-2005 11:57
\\data\projects\2005\r-2518b\vol1\r-2518b_rdwy_typ.dgn

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	142 of 187

50 40 30 20 10 0 10 20 30 40 50

765
760

EXISTING BRIDGE

164.140

758.31

191+80.000

765
760

764.505

764.20

RDWY FILL
SILTY SAND W/ RK FRAGS

191+65
12 M RT

ALLUVIUM
BRN/GRAY CLAYEY SAND 8/10/04

9	
5	
8	

191+60.000

764.949

764.66

SAPROLITE
TAN/WHT MIC. SANDY SILT

6	
17	
29	
62	
36	
41	
59	
85	
100+	
100+	

WEATHERED ROCK

191+40.000

765.411

765.20

191+20.000

50 40 30 20 10 0 10 20 30 40 50

15-JUN-2005 14:43
tools\cad\sup\r-2518b\vol1\r-2518b_rdy1_vol.dgn

2.5 0 2.5 5

50 40 30 20 10 0 10 20 30 40 50

765
760

763.251

765.535 765.445

2.5%

5.00% 5.00%

763.16

SS. 761.686

SS. 757.908

192+60.000

763.511

765.399 765.405

2.32%

5.00% 5.00%

763.21

SS. 763.062

SS. 757.817

192+40.000

763.642

765.375 765.507

2.1%

5.00% 5.00%

763.38

SS. 758.078

SS. 758.44

192+20.000

763.852

EXISTING BRIDGE

5.00% 5.00%

758.03

192+00.000

192+20
12 M RT

RDWY FILL
SILTY SAND W/ RK FRAGS

ALLUVIUM
BRN/GRAY CLAYEY SAND 8/17/04

SAPROLITE
TAN/WHT MIC. SANDY SILT

12
9
12
17
23
35
25
32
36
64
88
100+

WEATHERED ROCK

NOTE: RK SEAMS IN BOTTOM 2.0 M

10/26/98
15-JUN-2005 14:47
tools
c:\projects\2518b\vol1\2518b_rdy1_rpl.dgn

10/26/38

2.5	0	2.5	5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	144 of 187

50 40 30 20 10 0 10 20 30 40 50

780 775 770 765

SS: 768745 6H 6H SS: 768539

SAPROLITE
BRN/TAN MIC. SANDY SILT
MED. DENSE

WEATHERED ROCK

769.860

765.46 768.595

195+20.000

SS: 768.379 Ditch Depth 6H 6H SS: 768608

SAPROLITE
BRN/TAN MIC. SANDY SILT
MED. DENSE

WEATHERED ROCK

769.852

767.586 768.54 767.824

195+00.000

SS: 768.759 6H 6H

765.017

766.687 767.65

194+80.000

-Y5- INTERSECTION -Y5- INTERSECTION

767.212

766.89

194+60.000

-Y5- INTERSECTION -Y5- INTERSECTION

766.486

766.20

194+40.000

20-JUN-2005 12:35
c:\projects\projects\r-2518b\vol1\r2518b_rdy_1_vol.dgn

10/26/95

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	145 of 187

50 40 30 20 10 0 10 20 30 40 50

785 780 775 770

SS. 785.69

SAPROLITE
BRN/TAN MIC. SANDY SILT
MED. DENSE TO DENSE

WEATHERED ROCK

SS. 777.78

6d

6d

6d

0.0109

0.0116

0.0116

7702.16

770249

771.46

770250

195+60.000

SS. 781.58

SAPROLITE
BRN/TAN MIC. SANDY SILT
MED. DENSE TO DENSE

WEATHERED ROCK

SS. 774.25

6d

6d

6d

0.0100

0.0100

0.0100

7708.99

769.67

770.43

769.33

195+40.000

50 40 30 20 10 0 10 20 30 40 50

29-JUN-2005 12:48
tools\geopak\projects\r-2518b\vol1\r-2518b_rdy_1_sol.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	146 of 187

50 40 30 20 10 0 10 20 30 40 50

795 790 785 780 775 770

SAPROLITE

BRN.AT AN MIC. SANDY SILT

MED. DENSE TO DENSE

WEATHERED RK

SAPROLITE

SS 771.63M

6M

771.23

771.55

771.88

771.23

195+80.000

50 40 30 20 10 0 10 20 30 40 50

795 790 785 780 775 770

vols 28 Jul 1998 12:24
p:\projects\2518b\vol1\2518b_rdy1.sol.dgn

10/26/98

2.5	0	2.5	5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	14 of 187

50 40 30 20 10 0 10 20 30 40 50

800

795

790

785

780

775

770

SAPROLITE

BRN/TAN MIC. SANDY SILT

MED. DENSE TO DENSE

WEATHERED ROCK

SS. 776.849'

2V

6V

773.098

773.68

774.363

773.098

24"

196+00.000

50 40 30 20 10 0 10 20 30 40 50

800

795

790

785

780

775

770

C:\Projects\2518b\vol1\2518b_rdy_1_col.dgn
26-JAN-2005 12:47
jjohnson

10/26/95

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	148 of 187

50 40 30 20 10 0 10 20 30 40 50

800 795 790 785 780 775 770

SAPROLITE
BRN/TAN MIC. SANDY SILT
MED. DENSE TO DENSE

WEATHERED ROCK

SS 776.890

2d

6d

0.0100

0.0250

6d

1755.38

774.273

774.95

774.273

196+20.000

-L-

50 40 30 20 10 0 10 20 30 40 50

dgn:rdr1.rdr-1_rdr-2518b-2518b\col\2-2518b\col\:rdr1.rdr-1_rdr-2518b-2518b\col\2-2518b\col\

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	149 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

785 780 775 770

SS. 768750

6V

SAPROLITE
BRN/TAN MIC. SANDY SILT
MED. DENSE TO DENSE

776888
776.46
776543

196+60.000

795 790 785 780 775 770

SAPROLITE
BRN/TAN MIC. SANDY SILT
MED. DENSE TO DENSE

WEATHERED ROCK

776666
776.13
776.16
775.48

196+40.000

50 40 30 20 10 0 10 20 30 40 50

26-JUN-2005 12:51
\\coltsfpr01\projects\R-2518\sol\v-2518a_rdy1.sol.dgn

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

790
785

S.S. 787.73

6H

785.30

0.0150

785.348

1.0010

6H

S.S. 787.72

SAPROLITE
RED/BRN/TAN MIC. SANDY SILT
LOOSE TO MED. DENSE

784.083

784.88

784.083

198+00.000

790
785

S.S. 784.91

6H

784.391

784.442

784.391

SAPROLITE
RED/BRN/TAN MIC. SANDY SILT
LOOSE TO MED. DENSE

S.S. 785.43

783.76

784.03

783.76

197+80.000

785

782.500

783.411

782.500

GRAVEL DRIVE

12%

783.20

197+60.000

785
780

S.S. 781.856

782.598

782.455

782.598

782.09

197+40.000

50 40 30 20 10 0 10 20 30 40 50

28-JUN-2005 12:52
\\colo1\projects\R-2518b-25186\vpl\r2518b_r6vl_vpl.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	151 OF 187

50 40 30 20 10 0 10 20 30 40 50

800 795 790 785

SAPROLITE
RED/BRN/TAN MIC.
SANDY SILT

787.41

198+60.000

SAPROLITE
RED/BRN/TAN MIC.
SANDY SILT

198+40.000

198+20
20 M RT

SAPROLITE
RED/BRN/TAN MIC.
SANDY SILT

8
7
6
13
8

198+20.000

15-JAN-2005 14:19
dgn\r-2518b_rdy_l_sht.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	152 OF 189

50 40 30 20 10 0 10 20 30 40 50

805

800

795

790

785

780

SAPROLITE

RED/BRN MIC. SANDY SILT

LOOSE TO DENSE

788.39

788.08

787.82

198+80.000

50 40 30 20 10 0 10 20 30 40 50

805

800

795

790

785

780

dgn: I:\projects\2518b\roll\r2518b-rdpl.dgn
dgn: I:\projects\2518b\roll\r2518b-rdpl.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	153 of 187

50 40 30 20 10 0 10 20 30 40 50

810 805 800 795 790 785 780

SAPROLITE

RED/BRN MIC. SANDY SILT

LOOSE TO DENSE

789.015

785.58

784.87

6H

0.03%

1.81%

6H

784.71

787.49

-L-

199+00.000

50 40 30 20 10 0 10 20 30 40 50

810 805 800 795 790 785 780

dgn-rpl-tpl-r-tpl-2518-2518-sht-pro.dgn

10/26/38

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	154 of 187

50 40 30 20 10 0 10 20 30 40 50

810

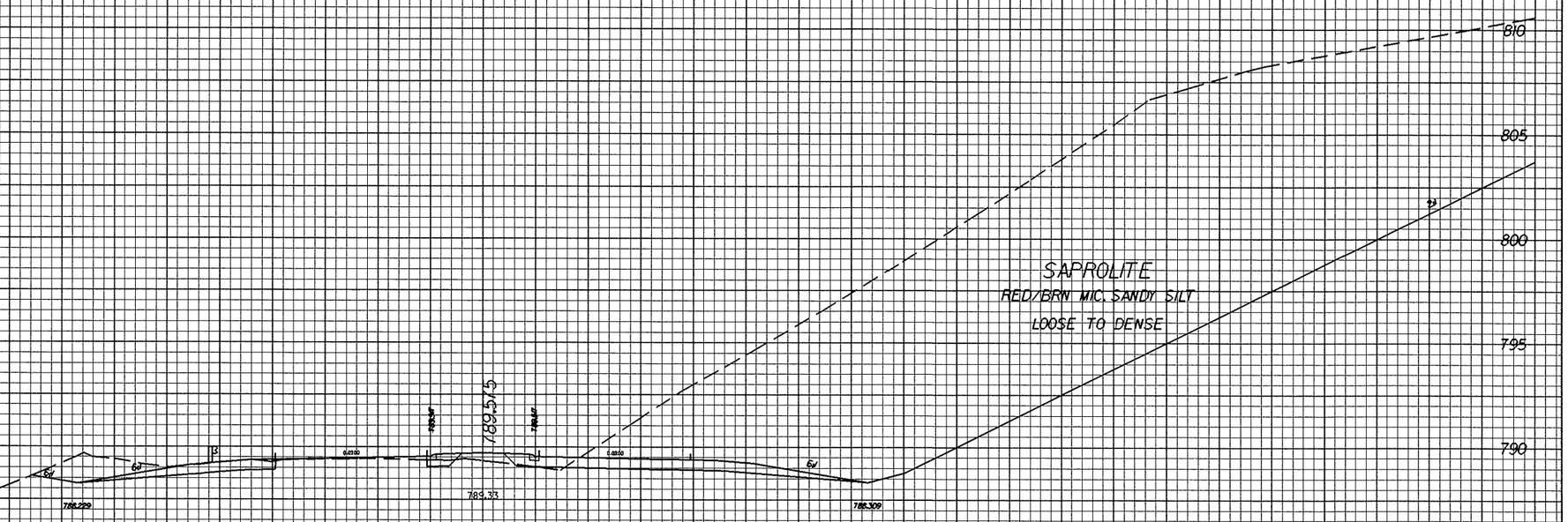
805

800

795

790

785



199+20.000
-L-

50 40 30 20 10 0 10 20 30 40 50

dgn: I:\projects\2007\2007-25\2518b\roll\2518b-roll.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	155 of 187

2.5 0 2.5 5 METRIC

50 40 30 20 10 0 10 20 30 40 50

815 810 805 800 795 790 785

199+40 815
44 M RT

5
4
4
5
10
24
19
44
44
59

SAPROLITE
RED/WHT/TAN MIC. SANDY SILT

WEATHERED ROCK

SS 790.68

2%

6%

6%

788.81

789.81

788.81

190.077

199+40.000

50 40 30 20 10 0 10 20 30 40 50

15-JAN-2003 14:58
cdpdgn\r-2518b_rdy1.sol\r-2518b\sol\r-2518b_rdy1_sol.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	156 of 197

50 40 30 20 10 0 10 20 30 40 50

820 815 810 805 800 795 790 785 780

SAPROLITE
RED/BRN MIC. SANDY SILT
LOOSE TO DENSE

SS 792.005

6d

789.256

6d

790.25

790.521

790.463

790.456

789.256

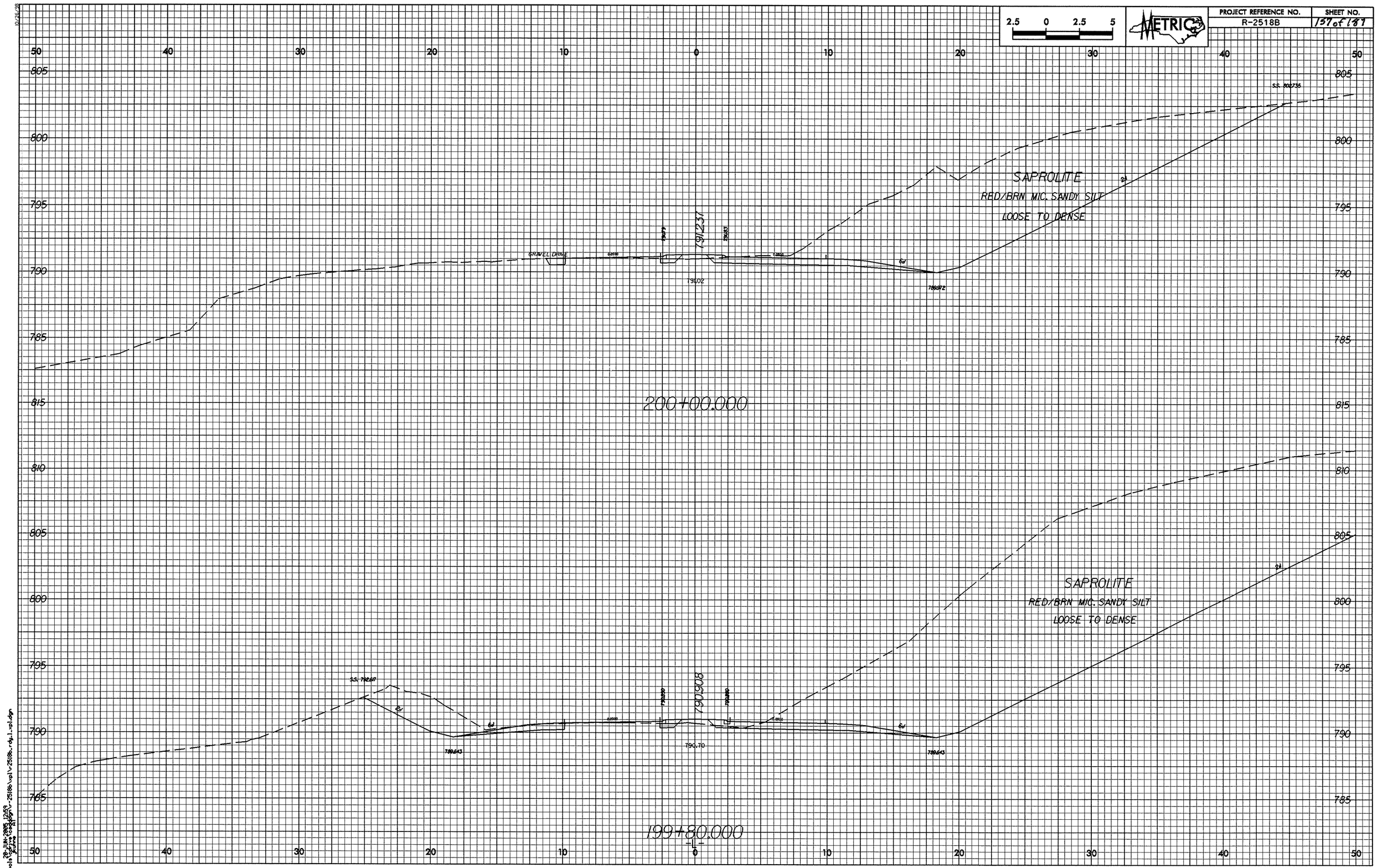
199+60.000

50 40 30 20 10 0 10 20 30 40 50

28-JUN-2005 12:58
$$USER
tools\proj\r-2518b\sht\r-2518b_rdy_1_sht.dgn

2.5 0 2.5 5

METRIC



29-JAN-2005 12:59
c:\projects\coldpsn\r-2518b\vol1\r-2518b_r-dp_1_vol.dgn

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	158 of 187

50 40 30 20 10 0 10 20 30 40 50

795 790 785 780 775

79.97

79.41

RDWY FILL

200+78
34 M RT

ALLUVIUM RED/BRN SILTY SAND

SAPROLITE RED/BRN SILTY SAND

WEATHERED ROCK

4

87

SS. 777.023

SS. 776.980

200+80.000

79.87

79.32

SS. 778.723

SS. 775.481

200+60.000

dgn: 2518bx01.dgn -- 18-Jun-1993 15:22 -- V:\2518B\roll\2518bx01.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	159 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

795 790 785

203+00.000

-L-

789.777

788.70

SAPROLITE
RED/BRN MIC. SANDY SILT
LOOSE TO MED. DENSE

SS. 784.806

SS. 783.953

202+80.000

-L-

790.257

789.21

SAPROLITE
RED/BRN MIC. SANDY SILT
LOOSE TO MED. DENSE

SS. 796.960

SS. 784.218

202+60.000

-L-

790.274

789.74

SAPROLITE
RED/BRN MIC. SANDY SILT
LOOSE TO MED. DENSE

SS. 794.174

SS. 784.274

20-JUN-2005 13:02
jsmith
c:\projects\r-2518b\v-2518b_rdy_1.rpl.dgn

10/26/38

2.5	0	2.5	5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	160 of 187

50 40 30 20 10 0 10 20 30 40 50

805 800 795 790 785

SS. 802.96

SAPROLITE

RED/BRN. MIC. SANDY SILT

LOOSE TO MED. DENSE

21

787.68

787.09

787.68

786.825

6H

4H

0.010

0.010

203+40.000

SS. 796.880

SAPROLITE

RED/BRN. MIC. SANDY SILT

LOOSE TO MED. DENSE

23

786.17

786.99

786.17

787.400

6H

0.010

0.010

203+20.000

50 40 30 20 10 0 10 20 30 40 50

805 800 795 790 785

20-JUN-2005 13:43
User: cooksa
C:\projects\2518b\col\r-2518b_r-dy_1_col.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	16 of 187

50 40 30 20 10 0 10 20 30 40 50

810 805 800 795 790 785

SS 789.293

6d

786.250

6d

8"CSP

787.516

786.99

8"CSP

6d

786.250

SAPROLITE

RED/BRN MIC. SANDY SILT

203+60.000

50 40 30 20 10 0 10 20 30 40 50

29-JAN-2008 13:24
k:\projects\r-2518b\sgl\r-2518b-rdy1.sgl dgn

2.5 0 2.5 5

METRIC

203+80
65 M RT

FOLD LINE AT 50 M RT

SAPROLITE
RED/BRN MIC. SANDY SILT

11 10 9 7 5 8 11 14 11 8 9 14 12

SAPROLITE
RED/BRN MIC. SANDY SILT

SS 792.806

6:1

785.675

786.44

785.941

203480.000
-L-

50 40 30 20 10 0 10 20 30 40 50

815 810 805 800 795 790 785

15-JUN-2005 09:56
...\roadway\r-2518b\vpl\r-2518b_rdy_1_vpl.dgn

10/26/38

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	163 of 187

50 40 30 20 10 0 10 20 30 40 50

815

810

805

800

795

790

785

SS. 788.50

SAPROLITE
RED/BRN MIC. SANDY SILT
LOOSE TO MED. DENSE

6V

0.010

0.010

6V

SAPROLITE
RED/BRN MIC. SANDY SILT
LOOSE TO MED. DENSE

786.366

785.400

785.86

785.400

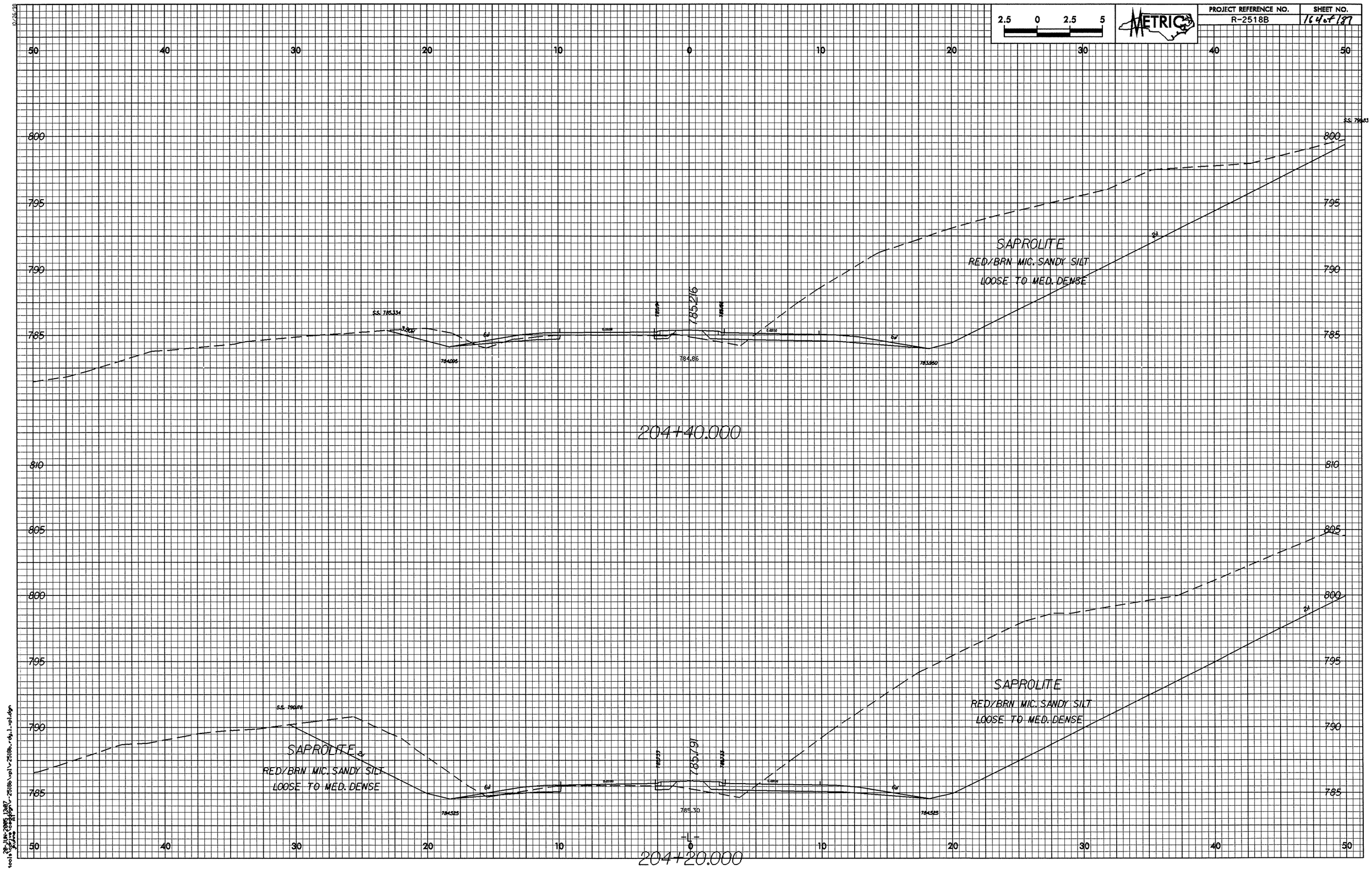
204+00.000

\\ctl-pw01\projects\R-2518b\vol1\2518b_rdy1_vol.dgn
26-JUN-2005 13:06
jsalmon

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	164 of 187

2.5 0 2.5 5

METRIC



dgn-101-r01-1-2518b-c-2-sht01.dgn
10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	165 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

795 790 785 780

SS. 790454

184.066

SAPROLITE
RED/BRN MIC. SANDY SILT
LOOSE TO MED. DENSE

783.60

782780

204+80.000

800 795 790 785 780

SS. 798682

184.691

SAPROLITE
RED/BRN MIC. SANDY SILT
LOOSE TO MED. DENSE

784.24

783.975

SS. 782664

204+60.000

50 40 30 20 10 0 10 20 30 40 50

10/26/98

Date: 2002-JUN-28 Time: 08:15:06 User: rlp-1 File: c:\plot\25180\sht\25180_pro1.sht

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	166 of 187

50 40 30 20 10 0 10 20 30 40 50

785 780 775 770 790 785 780 775

183.069

782.47

205+20.000

205+00.000

183.523

785.11

204+95
25 Lt/Rt

SAPROLITE
RED/BRN MIC. SANDY SILT

5
6
4
8
9
12
10

10:16:JW-2005.08\57 C:\projects\r-2518b\plt\r-2518b_rdwy.plt.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	167 of 187

50 40 30 20 10 0 10 20 30 40 50

785 780 775 770

206+20.000

182.145

781.60

781.61

206+00.000

182.246

781.77

205+87

30 M RT

RDWY FILL

ALLUVIUM

SAPROLITE

WEATHERED ROCK

6/22/04

5 GRAY SILTY SAND W/ RK FRAGS

13 RED/BRN MIC. SILTY SAND

205+80.000

I:\Jobs\2005\2005-2518b\roll-2518b-rdy-1.rol.dgn
tools 10/26/98 07:51:51 jlt

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	168 of 187

2.5 0 2.5 5 METRIC

50 40 30 20 10 0 10 20 30 40 50

785 780 775 790

784.620

0.0457 0.0457

6d 4d

764.16

SS 777.886

207+60.000

SS 796.634

783.998

0.0447 0.0447

783.468 783.56

ROWY FILL

207+40.000

207+40
28 M RT

ART. FILL
RED/GRAY SILTY SAND W/ RK FRAGS

SS 780.28

6/22/04

SAPROLITE

ALLUVIUM
GRAY SILTY SAND W/ RK FRAGS

784.035

783.463

0.0450 0.0450

782.94

207+20.000

tool:\\c-jun-2005_8\07--2518b\plt\r-2518b_rdy1.plt-dgn
plotted: 10/26/98 07:57

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	169 of 187

50 40 30 20 10 0 10 20 30 40 50

795

790

785

780

SS. 796.055

SAPROLITE
TAN/BRN MIC. SANDY SILT

SAPROLITE W/ SEAMS OF WEATHERED RK

WEATHERED ROCK

786.135

785.049

785.60

-L-

0.0019

0.0019

24

SS. 776.573

208+00.000

785.333

784.92

0.0146

0.0146

SS. 764.597

SS. 777.330

207+80.000

-L-

dgn: 10x_1hpr_1hpl-2518B.dgn
Plot Date: 10/26/98
Plot Time: 7:21:18 AM
Plot Scale: 1.000 '/ Inch
User: jjones
Cell: 10x_1hpr_1hpl-2518B
Level: 1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37,38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54,55,56,57,58,59,60,61,62,63

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	170 of 197

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

800
795
790
785
780

SAPROLITE
TAN/TAN MIC. SANDY SILT
SAPROLITE
W/ SEAMS OF WEATHERED RK
WEATHERED ROCK

785.79
786.20

787.026

208+20.000

50 40 30 20 10 0 10 20 30 40 50

Plotted: 22-JUN-2005 08:47
Design File: N:\projects\2518\roll\2518b_rdy_1_rol.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	171 of 187

208+40
45 M LT

5
15
22
29
58
85

SAPROLITE
TAN/BRN MIC. SANDY SILT
SAPROLITE
W/ SEAMS OF WEATHERED RK.
WEATHERED ROCK

787.949

Ditch Depth
S.S. 787.837

6H
6H
0.04
0.04
1
1

786.525
787.03
787.220

208+40.000
-L-

805
800
795
790
785
780

50 40 30 20 10 0 10 20 30 40 50

User: JMM 2005.06.06
Plot Scale: 1.000 '/ Inch
Plot Units: Inches
Plot Time: 2005.06.06 08:46:
Plot Name: C:\projects\2518b\col\2518b_dgn_1.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	172 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

805 800 795 790 785

S.S. 802.775

SAPROLITE
RED/BRN SANDY SILT
LOOSE TO DENSE

6d

0.0400

789.796

S.S. 789.609

6d

789.303

789.198

789.11

208480.000

805 800 795 790 785

Sr

SAPROLITE
RED/BRN SANDY SILT
LOOSE TO DENSE

6d

0.0400

788.872

Ditch Depth
S.S. 788.388

6d

0.0200

788.380

787.875

788.09

208460.000

780

50 40 30 20 10 0 10 20 30 40 50

21-JUN-2005 11:41
tools 208480.dgn
1DKA0:[projects.2518.vol1.r2518b_rdy1_sol]r2518b_rdy1_sol.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	173 OF 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

800 795 790

SS. 800.96

SAPROLITE
RED/BRN SANDY SILT
LOOSE TO DENSE

792.566

6d

S.0400

792.68

792.68

792.28

790.963

SS. 795.008

SAPROLITE
RED/BRN SANDY SILT
LOOSE TO DENSE

792.73

209+40.000

SS. 800.824

SAPROLITE
RED/BRN SANDY SILT
LOOSE TO DENSE

791.642

6d

S.0400

L

S.0300

6d

SS. 790.762

RED/BRN SANDY SILT
LOOSE

790.450

79.31

790.045

209+20.000

SS. 800.56

SAPROLITE
RED/BRN SANDY SILT
LOOSE TO DENSE

790.719

6d

S.0400

L

S.0300

SS. 790.234

SAPROLITE
RED/BRN SANDY SILT
LOOSE

790.206

790.16

789.422

209+00.000

21-JUN-2005 11:42
c:\projects\r-2518b\cpl\r-2518b_rdy1_cpl.dgn
kburns

2.5 0 2.5 5

METRIC

10/26/38

50 40 30 20 10 0 10 20 30 40 50

210+00
35 M RT

SS. 805.82

805
800
795

6
8
13
6
6
16

SAPROLITE
RED/TAN/BRN MIC.
SANDY SILT

6d

0.050

795.75

794.83

795.570

SS. 802.580

SAPROLITE
RED/TAN/BRN MIC.
SANDY SILT

6d

794.683

210+00.000

SS. 803.809

805
800
795

6d

SAPROLITE
RED/TAN/BRN MIC.
SANDY SILT

0.050

794.359

794.08

792.762

SS. 800.470

SAPROLITE
RED/TAN/BRN MIC.
SANDY SILT

6d

793.867

209+80.000

SS. 802.280

805
800
795

6d

SAPROLITE
RED/TAN/BRN MIC.
SANDY SILT

0.050

793.485

793.26

794.888

SS. 798.800

SAPROLITE
RED/TAN/BRN MIC.
SANDY SILT

6d

792.993

209+60.000

50 40 30 20 10 0 10 20 30 40 50

16-JAN-2005 8:41
tools \plans \signs \r-2518b \sht \r2518b_rdy1_sht.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	175 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

210+80.000

S.S. 800.087

SAPROLITE
RED/TAN/BRN MIC.
SANDY SILT

796.850

791.42

S.S. 797.343

210+60.000

S.S. 800.806

SAPROLITE
RED/TAN/BRN MIC.
SANDY SILT
LOOSE TO MED.DENSE

797.161

796.84

S.S. 799.826

SAPROLITE
RED/TAN/BRN MIC.
SANDY SILT
LOOSE TO MED.DENSE

210+40.000

S.S. 800.367

SAPROLITE
RED/TAN/BRN MIC.
SANDY SILT
LOOSE TO MED.DENSE

796.633

796.22

795.038

S.S. 803.568

SAPROLITE
RED/TAN/BRN MIC.
SANDY SILT
LOOSE TO MED.DENSE

796.441

210+20.000

S.S. 805.622

SAPROLITE
RED/TAN/BRN MIC.
SANDY SILT
LOOSE TO MED.DENSE

795.933

795.54

794.536

S.S. 804.040

SAPROLITE
RED/TAN/BRN MIC.
SANDY SILT
LOOSE TO MED.DENSE

795.441

50 40 30 20 10 0 10 20 30 40 50

10/26/98

21-JUN-2005 13:45
User: cdavis
Plotted: 21-JUN-2005 13:45
Plotted by: cdavis
Script: C:\projects\2518b\vol1\2518b_vol1_xsec.dgn

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	176 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

800 795

211+80.000

SS. 799121 5.95% 6d 798.33 799.91 0.0000 1 0.0000 1 6d 799.51 6d SS. 796980 798.48 800

211+60.000

SS. 798364 4.98% 6d 798.09 799.66 0.0000 1 0.0000 1 6d 798.23 SS. 799086 800

211+40.000

SS. 796368 6d SAPROLITE RED/TAN/BRN MIC. SANDY SILT 798.40 798.84 0.0000 1 0.0000 1 6d SS. 798572 SS. 796658 800

211+20.000

SS. 800749 6d SAPROLITE RED/TAN/BRN MIC. SANDY SILT 796788 798.36 0.0000 1 0.0000 1 6d 791.94 SS. 797796 800

211+00.000

10/26/98
tools for use with 2518b_-2518b\vpl\v2518b_rdpl_vpl.dgn

10/26/38

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	177 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

810 805 800

SS. 805.383

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

2d 6d

798.95

800.512

800.01

SS. 807.849

2d

RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

800.09

212+80.000

SS. 803.798

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

2d 6d

798.90

800.508

799.95

SS. 805.47

2d

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

800.05

212+60.000

SS. 802.807

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

2d 6d

798.848

800.445

799.91

SS. 803.857

2d

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

799.953

212+40.000

SS. 801.854

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DEASE

2d 6d

798.728

800.325

799.83

SS. 802.09

2d

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

799.832

212+20.000

SS. 800.654

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

2d 6d

798.598

800.141

799.70

SS. 800.939

2d

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

799.804

212+00.000

50 40 30 20 10 0 10 20 30 40 50

tools 21-JUN-2005 22:08 $USER
K:\PROJ\2518\vol1\2518_rdy1.pol dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	178 OF 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

S.S. 810.844

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

WEATHERED ROCK

800.717

799.76

S.S. 811.704

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

213+40.000

S.S. 809.959

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

WEATHERED ROCK

800.341

799.93

S.S. 811.116

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

213+20.000

S.S. 807.494

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

800.458

799.95

S.S. 808.419

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

213+00.000

50 40 30 20 10 0 10 20 30 40 50

tools 21-JAN-2005 12:11
jkuhn c:\projects\2518a\col\2518a_rdy_1_col.dgn

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	179 OF 187

50 40 30 20 10 0 10 20 30 40 50

815
810
805
800

SS. 812.29

SAPROLITE
RED/BRN MIC. SANDY SILT

WEATHERED ROCK

799.664

798.30

798.399

798.697

213+80.000

SS. 812.43

SAPROLITE
RED/BRN MIC. SANDY SILT

WEATHERED ROCK

799.950

795.57

798.643

798.943

213+60.000

SS. 812.93

SAPROLITE
RED/BRN MIC. SANDY SILT

SS. 812.65

213+60
33 M RT

3
7
14
20
44

SAPROLITE
RED/BRN MIC. SANDY SILT

plotted: 10/26/98 08:27
c:\projects\2518\vol1\2518bx-pl.1.tcl

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	180 of 187

50 40 30 20 10 0 10 20 30 40 50

815
810
805
800

SAPROLITE
RED/BRN MIC. SANDY SILT
WEATHERED ROCK
Sv
6d
6V
-L-
798.654
798.48
798.654
798.861
SS. 805969
SS. 840540
214+20.000

214+00
35 M LT
8
6
15
21
25
100+
798.055
798.93
798.83
798.622
214+00.000

\\ctdot.ad.ct.gov\dfs\Projects\2518-r4_1.vol\v-2518-r4_1.vol.dgn
16-JUN-2005 08:20
jmcfee

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	18 OF 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

214+80.000

SS. 804095

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

WEATHERED ROCK

SS. 802765

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

797.397

796.87

796.69

796.067

805
800
795

214+60.000

SS. 804230

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

WEATHERED ROCK

SS. 804937

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

797.942

797.49

796.830

810
805
800

214+40.000

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

WEATHERED ROCK

SS. 806987

SAPROLITE
RED/BRN MIC. SANDY SILT
MED. TO VERY DENSE

798.460

798.02

797.894

797.592

815
810
805
800

50 40 30 20 10 0 10 20 30 40 50

10/26/38

dgn:\\r-2518b-sht-2.dgn 21-JUN-2022 15:01 jmcdaniel

10/26/98

2.5 0 2.5 5

METRIC

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	182 of 187

50 40 30 20 10 0 10 20 30 40 50

800

795

-Y7- INTERSECTION

0.0700

0.0850

-Y8- INTERSECTION

794.85

794.10

794.485

215+60.000

795.293

794.88

215+40.000

S.S. 796.385

6d

SAPROLITE

RED/BRN MIC. SANDY SILT

MED. TO VERY DENSE

794.277

796.042

795.42

S.S. 794.736

794.711

215+20.000

S.S. 800.174

2d

SAPROLITE

RED/BRN MIC. SANDY SILT

MED. TO VERY DENSE

795.468

796.733

796.15

S.S. 800.568

SAPROLITE

RED/BRN MIC. SANDY SILT

DENSE

795.418

215+00.000

50 40 30 20 10 0 10 20 30 40 50

dgn: r:\projects\2518b_rdy_1.rol.dgn
8/27/1998 08:27:12 AM
User: kmartin
Plot Scale: 100.000 '/ Inch

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	183 of 187

2.5 0 2.5 5

50 40 30 20 10 0 10 20 30 40 50

775 770 765

NEW DECK ON EXISTING BRIDGE SUBSTRUCTURE

773.555

766.28

223+40.000

223+18
12 M LT

773.834

773.55

772.459

8/18/04
ALLUVIUM
WEATHERED RK

30 BRN/BLK SILTY SAND W/ GRAVEL & COBBLES
100+
100+

223+20.000

774.148

773.87

772.803

SS 771970

223+00.000

774.544

774.20

773.198

SS 772827

222+80.000

50 40 30 20 10 0 10 20 30 40 50

10/26/98
15-JUN-2005 09:22
tools\cgi\wp\pgm\v-2518b\vpl\v-2518b-rdy1.vpl.dgn

10/26/98

PROJECT REFERENCE NO.	SHEET NO.
R-2518B	184 of 187

2.5 0 2.5 5

METRIC

50 40 30 20 10 0 10 20 30 40 50

775 770

Ditch Depth
S.S. 772.87
6d
772.87
773.04
773.292
0.0200
0.0850
2d

224+20.000

Ditch Depth
S.S. 772.64
6d
771.65
773.05
773.230
0.0150
0.0850
24d
S.S. 772.89

224+00.000

223+82
12 M LT
773.251
0.0150
NEW DECK ON EXISTING BRIDGE SUBSTRUCTURE
0.0200

RDWY FILL
8/18/04
ALLUVIUM
SAPROLITE
WEATHERED RK W/ SAPROLITE
771.22
RED/BRN SANDY CLAY W/ RK FRAGS
SAND, GRAVEL, COBBLES
RED/BRN SANDY SILT
6
5
14
12
20
(100+)
49
(100+)
223+80.000

765.78
223+60.000

dgn-pl-1.pl-dgn
dgn-pl-1.pl-dgn
dgn-pl-1.pl-dgn

M&T 503E

JJL

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	R-2518B

REPORT ON SAMPLES OF:	Soil for Classification

PROJECT:	34445.1.1	COUNTY:	Yancey	Owner:	--
DATE SAMPLED:	5/13-6/2/04	DATE RECEIVED:	5/25 – 6/21/04	DATE REPORTED:	6-23-04
SAMPLED FROM:	Rdwy	SAMPLED BY:	J Kuhne		
SUBMITTED BY:	W D Frye		2002	STANDARD SPECIFICATION	
LABORATORY:	Asheville				

TEST RESULTS

Project Sample No.	SS-1	MS-1	SS-2	MS-2	SS-3	MS-3	SS-4	MS-4
Lab Sample No. A-	145595	145686	145596	145852	145597	145853	145598	146026
HiCAMS Sample #	--	--	--	--	--	--	--	--
Retained #4 Sieve %	--	--	--	--	--	--	--	--
Passing #10 Sieve %	93		100		86		83	
Passing #40 Sieve %	80		99		75		71	
Passing #200 Sieve %	31		59		40		37	

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	28		6		22		23	
Fine Sand - Ret. #270	50		55		45		46	
Silt 0.05-0.005 mm %	18		31		25		23	
Clay < 0.005 mm %	4		8		8		8	
Passing # 40 Sieve %	--		--		--		--	
Passing # 200 Sieve %	--		--		--		--	

Liquid Limit	24		51		28		29	
Plastic Index	NP		NP		NP		NP	
AASHTO Classification	A-2-4 (0)		A-5 (6)		A-4 (1)		A-4 (0)	
Quantity								
Texture								
Station	119+66 Lt	130+60 Rt	119+74 Rt	181+20 Rt	126+90 Rt	181+20 Rt	126+70 Rt	Rt
Hole No.	-L-	-L-	-L-	-L-	-L-	-L-	-L-	-L-
Depth (ft) From:	4.21	8.75	5.48	2.77	0.92	7.33	0.93	6.16
To:	4.51	9.05	5.78	3.07	1.37	7.63	1.23	6.46
Moisture %		7.3		13.1		15.1		11.7

Remarks:

Soil & moisture samples came in at different times

CC:

W D Frye	
J J Lail	
File	

SOILS ENGINEER:	

M&T 503E

JJL

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	R-2518B

REPORT ON SAMPLES OF:	Soil for Classification

PROJECT:	34445.1.1	COUNTY:	Yancey	Owner:	--
DATE SAMPLED:	5/13-6/2/04	DATE RECEIVED:	5/25 – 6/21/04	DATE REPORTED:	6-23-04
SAMPLED FROM:	Rdwy	SAMPLED BY:	J Kuhne		
SUBMITTED BY:	W D Frye		2002	STANDARD SPECIFICATION	
LABORATORY:	Asheville				

TEST RESULTS

Project Sample No.	SS-5	MS-5	SS-6	MS-6	SS-7	SS-8	SS-9	SS-10
Lab Sample No. A-	145599	146027	145687	146028	145688	145689	145690	145691
HiCAMS Sample #	--	--	--	--	--	--	--	--
Retained #4 Sieve %	--	--	--	--	--	--	--	--
Passing #10 Sieve %	80		68		71	94	93	96
Passing #40 Sieve %	71		65		56	81	81	79
Passing #200 Sieve %	40		50		28	52	45	51

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	21		11		33	23	22	29
Fine Sand - Ret. #270	42		24		36	31	42	27
Silt 0.05-0.005 mm %	31		31		23	36	30	28
Clay < 0.005 mm %	6		34		8	10	6	16
Passing # 40 Sieve %	--		--		--	--	--	--
Passing # 200 Sieve %	--		--		--	--	--	--

Liquid Limit	28		45		28	36	41	38
Plastic Index	NP		13		NP	NP	NP	12
AASHTO Classification	A-4 (1)		A-7-5 (5)		A-2-4 (0)	A-4 (3)	A-5 (2)	A-6 (4)
Quantity								
Texture								
Station	138+11 Rt	199+40 Rt	133+80 Lt	203+80 Rt	130+20 Rt	130+60 Rt	130+60 Rt	140+60 Lt
Hole No.	-L-	-L-	-L-	-L-	-L-	-L-	-L-	-L-
Depth (ft) From:	2.67	8.75	0.15	5.64	1.05	1.15	4.19	1.0
To:	2.97	9.05	0.45	5.94	1.35	1.45	4.49	1.30
Moisture %		10.4		15.8				

Remarks:

Soil & moisture samples came in at different times

CC:

W D Frye
J J Lail
File

SOILS ENGINEER:

M&T 503E

JJL

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	R-2518B

REPORT ON SAMPLES OF:	Soil for Classification

PROJECT:	34445.1.1	COUNTY:	Yancey	Owner:	--
DATE SAMPLED:	5/13-6/2/04	DATE RECEIVED:	5/25 – 6/21/04	DATE REPORTED:	6-23-04
SAMPLED FROM:	Rdwy	SAMPLED BY:	J Kuhne		
SUBMITTED BY:	W D Frye		2002	STANDARD SPECIFICATION	
LABORATORY:	Asheville				

TEST RESULTS

Project Sample No.	SS-11	SS-12	SS-13	SS-14	SS-15	SS-16	SS-17	
Lab Sample No. A-	145692	145693	145694	145854	145855	145856	145857	
HiCAMS Sample #	--	--	--	--	--	--	--	
Retained #4 Sieve %	--	--	--	--	--	--	--	
Passing #10 Sieve %	91	86	91	91	100	99	97	
Passing #40 Sieve %	65	84	88	89	97	94	88	
Passing #200 Sieve %	26	63	51	46	47	38	35	

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	43	6	16	9	10	15	26	
Fine Sand - Ret. #270	35	28	44	52	59	63	47	
Silt 0.05-0.005 mm %	18	32	34	31	27	20	19	
Clay < 0.005 mm %	4	34	6	8	4	2	8	
Passing # 40 Sieve %	--	--	--	--	--	--	--	
Passing # 200 Sieve %	--	--	--	--	--	--	--	

Liquid Limit	26	50	39	49	36	34	32	
Plastic Index	NP	21	NP	NP	NP	NP	NP	
AASHTO Classification	A-2-4 (0)	A-7-6 (11)	A-4 (3)	A-5 (3)	A-4 (2)	A-4 (1)	A-2 –4 (0)	
Quantity								
Texture								
Station	140+60 Lt	150+67 Lt	156+64 Lt	162+30 Lt	164+90 Lt	164+90 Rt	181+20 Rt	
Hole No.	-L-	-L-	-L-	-L	-L-	-L-	-L-	
Depth (ft) From:	2.52	2.58	2.72	1.10	1.07	1.22	4.29	
To:	2.82	2.88	3.02	1.40	1.37	1.52	4.59	

Remarks:

Soil & moisture samples came in at different times

CC:

W D Frye	
J J Lail	
File	

SOILS ENGINEER:	

M&T 503E

JJL

NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	R-2518B

REPORT ON SAMPLES OF:	Soil for Classification

PROJECT:	34445.1.1	COUNTY:	Yancey	Owner:	--
DATE SAMPLED:	6-3-04	DATE RECEIVED:	6-21-04	DATE REPORTED:	7-1-04
SAMPLED FROM:	Rdw –L-	SAMPLED BY:	J Kuhne		
SUBMITTED BY:	W D Frye		2002	STANDARD SPECIFICATION	
LABORATORY:	Asheville				

TEST RESULTS

Project Sample No.	SS-18	SS-19	SS-20	SS-21	SS-22	SS-23	SS-24	SS-25
Lab Sample No. A-	146029	146030	146031	146032	146033	146034	146035	146036
HiCAMS Sample #	--	--	--	--	--	--	--	--
Retained #4 Sieve %	--	--	--	--	--	--	--	--
Passing #10 Sieve %	86	89	89	76	91	95	100	100
Passing #40 Sieve %	76	76	82	70	78	92	92	92
Passing #200 Sieve %	46	26	46	36	55	38	44	56

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	21	30	15	18	24	11	20	16
Fine Sand - Ret. #270	35	55	37	47	21	65	49	39
Silt 0.05-0.005 mm %	16	7	15	19	18	14	21	19
Clay < 0.005 mm %	28	8	33	16	37	10	10	26
Passing # 40 Sieve %	--	--	--	--	--	--	--	--
Passing # 200 Sieve %	--	--	--	--	--	--	--	--

Liquid Limit	36	29	40	33	45	28	31	42
Plastic Index	8	NP	8	NP	13	NP	NP	NP
AASHTO Classification	A-4 (2)	A-2-4 (0)	A-4 (2)	A-4 (0)	A-7-5 (6)	A-4 (1)	A-4 (2)	A-5 (4)
Quantity								
Texture								
Station	184+87 Rt	184+87 Rt	186+80 Rt	186+80 Rt	198+20 Rt	199+40 Rt	199+40 Rt	199+40 Rt
Hole No.								
Depth (ft) From:	1.31	5.87	1.60	3.12	1.06	1.15	8.75	11.79
	1.61	6.17	1.90	3.42	1.36	1.45	9.05	12.09

Remarks:

A-146029 thru A-146038

CC:

W D Frye	
J J Lail	
File	

SOILS ENGINEER:	

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NORTH CAROLINA DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS-MATERIALS AND TESTS UNIT
SOILS TEST REPORT-SOILS LABORATORY

T.I.P. ID #:	**R-2518B**

REPORT ON SAMPLES OF:	**Soil for Classification**

PROJECT:	**34445.1.1**	**COUNTY:**	**Yancey**	**Owner:**	**--**		
DATE SAMPLED:	**6-3-04**	**DATE RECEIVED:**	**6-21-04**	**DATE REPORTED:**	**7-1-04**		
SAMPLED FROM:	**Rdw –L-**	**SAMPLED BY:**	**J Kuhne**				
SUBMITTED BY:	**W D Frye**			**2002**	**STANDARD SPECIFICATION**		
LABORATORY:	**Asheville**						

TEST RESULTS

Project Sample No.	SS-27	SS-28						
Lab Sample No. A-	146037	146038						
HiCAMS Sample #	--	--						
Retained #4 Sieve %	--	--						
Passing #10 Sieve %	88	85						
Passing #40 Sieve %	86	68						
Passing #200 Sieve %	76	26						

MINUS #10 FRACTION

Soil Mortar - 100%								
Coarse Sand -Ret. #60	5	36						
Fine Sand - Ret. #270	10	41						
Silt 0.05-0.005 mm %	10	15						
Clay < 0.005 mm %	75	8						
Passing # 40 Sieve %	--	--						
Passing # 200 Sieve %	--	--						

Liquid Limit	54	35						
Plastic Index	10	NP						
AASHTO Classification	A-5 (11)	A-2-4 (0)						
Quantity								
Texture								
Station	203+80 Rt	203+80 Rt						
Hole No.								
Depth (ft) From:	1.08	10.20						
	1.38	10.52						

Remarks:

A-146029 thru A-146038

CC:

W D Frye	
J J Lail	
File	

SOILS ENGINEER:	