



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

June 12, 2006

U.S. Army Corps of Engineers
Asheville Regulatory Field Office
151 Patton Avenue, Room 208
Asheville, NC 28801-5006

ATTN: Mr. Steve Lund
NCDOT Coordinator

Subject: Request for Individual Permit Modification for NC 16 from north of SR
1386 in Lincoln County to North of SR 1895 in Catawba County. Federal
Aid Project No. STP-F-24-1(34) State Project No. 8.1830501. \$475.00
Debit work order 34383.1.5. TIP Project No. R-2206C.

Reference: USACE Individual Permit dated October 7, 2004, Action ID 200420899.
NCDWQ Water Quality Certification dated September 21, 2004,
Individual WQC No. 3476.

Dear Mr. Lund:

The purpose of this letter is to request modifications to the Clean Water Act (CWA) Section 404 Permit issued by the USACE and the 401 Water Quality Certification issued by the NCDWQ. This project is currently under construction. The North Carolina Department of Transportation (NCDOT) is proposing modifications to Station 199+30 (Killian Creek Bridge) (1) and Permit Site 17 (Station 20+00) (2), after the fact, and to Station 256+70 (Reed Creek Bridge) (3) and Permit Site 15C (Station 266+40) (4).

- (1) Killian Creek Bridge requires bank stabilization at the new bridge supports due to erosion (see enclosed photo). Rock has already been installed in a "stair-step" fashion from existing water's edge to top of bank. Stream width dimensions and bankfull width dimensions maintained based upon upstream reference cross-section (enclosed). The permanent impacts for this are 70 linear feet.
- (2) Unpermitted wetland fill impacts in the vicinity of permit site 17C total 0.09 acre.
- (3) Reed Creek Bridge requires bank stabilization at the new bridge supports due to erosion (see enclosed photo). Rock will be installed in a "stair-step" fashion from existing water's edge to top of bank. Stream width dimensions and bankfull width

MAILING ADDRESS:
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WEBSITE: WWW.NCDOT.ORG

LOCATION:
TRANSPORTATION BUILDING
1 SOUTH WILMINGTON STREET
RALEIGH NC

dimensions maintained based upon upstream reference cross-section (enclosed). The permanent impacts for this are 65 linear feet.

- (4) A riprapped ditchline will extend from the 600 CSP to the toe protection ditchline to divert flow. The permanent impacts for this are 90 linear feet.

A letter from the Ecosystem Enhancement Program (EEP) indicating their willingness and ability to provide the additional mitigation for this impact is forthcoming.

REGULATORY APPROVALS

The NCDOT respectfully requests that the referenced 404 USACE Permit and 401 Water Quality Certification be modified to reflect the revision to the natural stream design outlined in this letter. In compliance with Section 143-215.3D(e) of the NCAC, NCDOT will provide \$475 to act as payment for processing the Section 401 certification modification application previously noted in this application (see Subject line). We are providing seven copies of this application to the North Carolina Department of Environment and Natural Resources, Division of Water Quality for their review.

Enclosed are copies of the modified permit drawings and plan sheets and pictures of the impacted areas.

If you have any questions, concerns, or need any additional information please contact Mr. Chris Underwood at (919) 715-1451.

Sincerely,



Gregory J. Thorpe, PhD, Environmental Management Director
Project Development and Environmental Analysis Branch

Cc: Mr. John Hennessy, NCDWQ
Ms. Marla Chambers, NCWRC
Ms. Becky Fox, USEPA – Whittier, NC
Mr. Ronald Mikulak, USEPA – Atlanta, GA
Ms. Marella Buncick, USFWS
Mr. John F. Sullivan, III, P.E., FHWA
Mr. Jay Bennett, P.E., Roadway Design
Mr. Omar Sultan, Programming and TIP
Mr. Art McMillan, P.E., Highway Design
Mr. David Chang, P.E., Hydraulics
Mr. Greg Perfetti, P.E., Structure Design
Mr. Mark Staley, Roadside Environmental
Mr. M. L. Holder, P.E., Division Engineer
Ms. Trish Simon, DEO
Mr. David Franklin, USACE, Wilmington



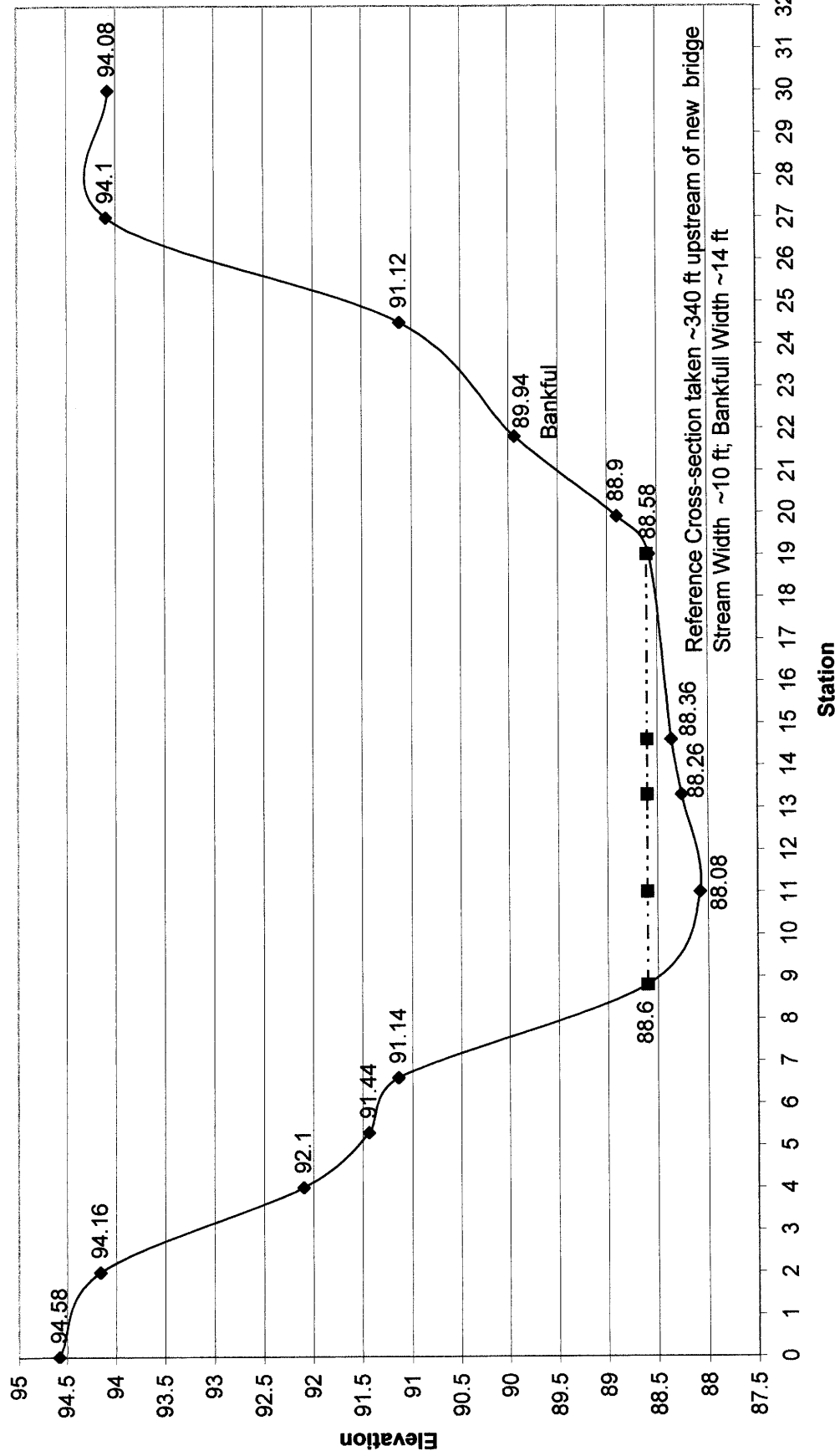
Killian Creek Bank Stabilization, Station 199+30



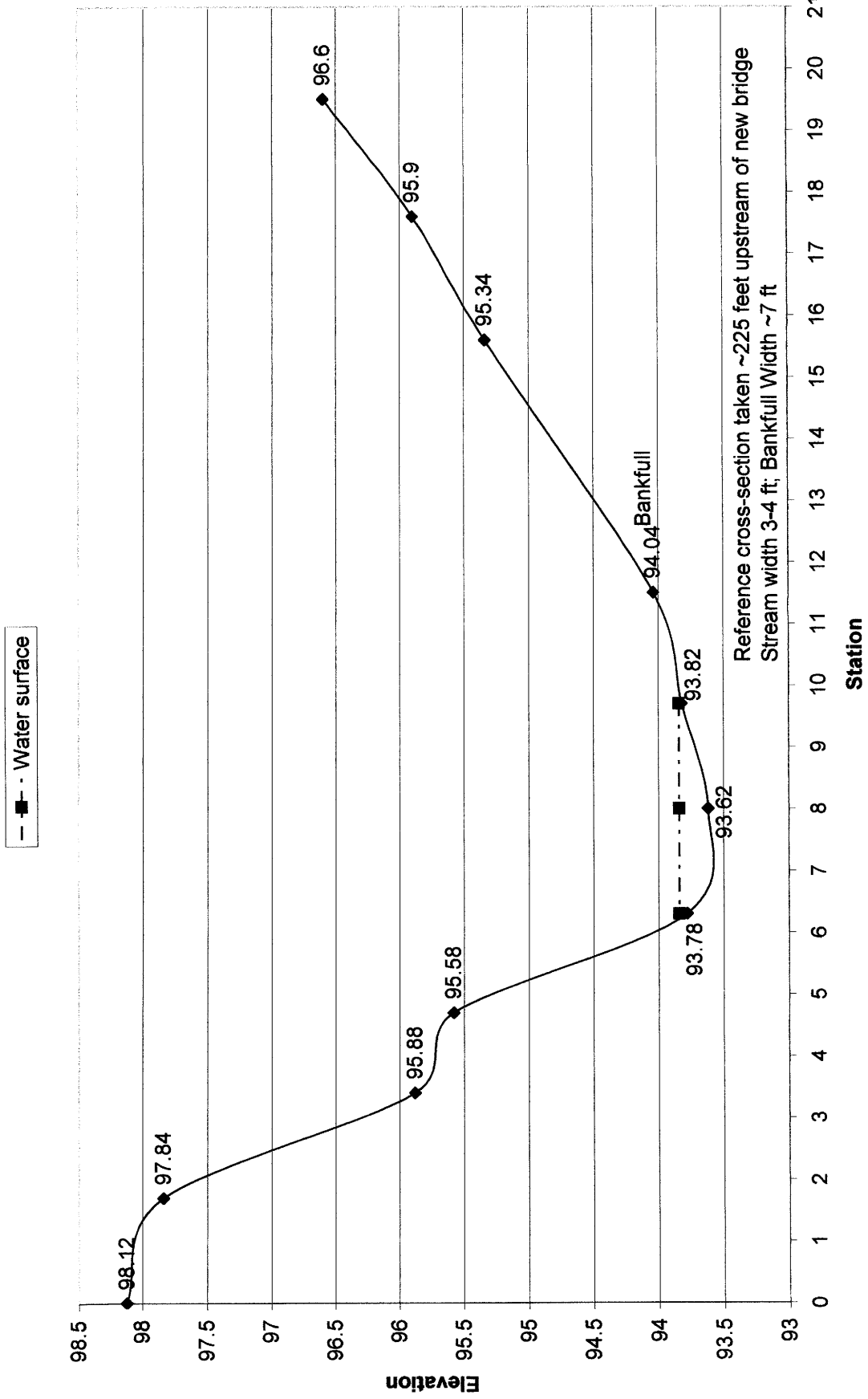
Reed Creek Bank Stabilization, Station 256+70

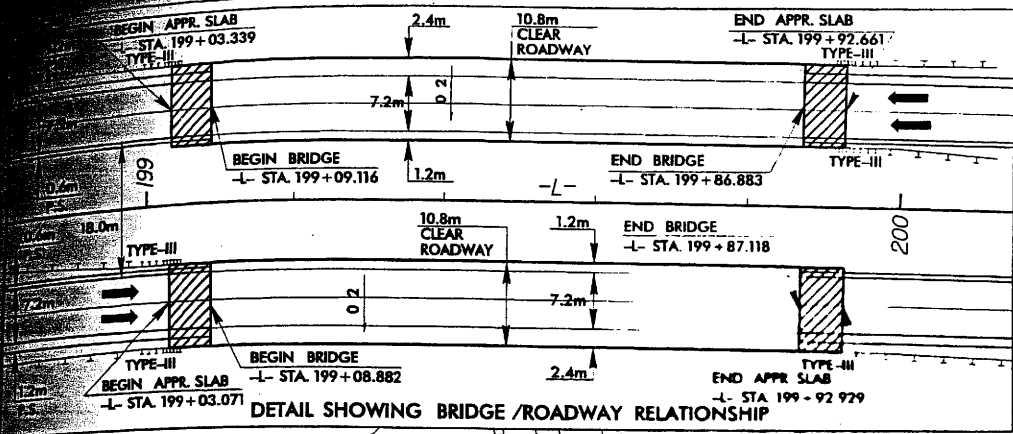
Upstream Reference Bed/Bank Profile, Killian Creek

—■— Water Surface



Upstream Reference Bed/Bank Profile, Reed Creek





SEE SHEETS S-32 THRU S-101 FOR STRUCTURE PLANS

PROJECT REFERENCE NO. R-2206C		SHEET NO. 10	
ROADWAY DESIGN ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 15356 ROYAL DAVID ALLEN 9-2-04		HYDRAULICS ENGINEER NORTH CAROLINA PROFESSIONAL SEAL 1160 DOUGLAS BAUNDERS 7/30/04	
CONST. REV.		R/W REV.	

METRIC

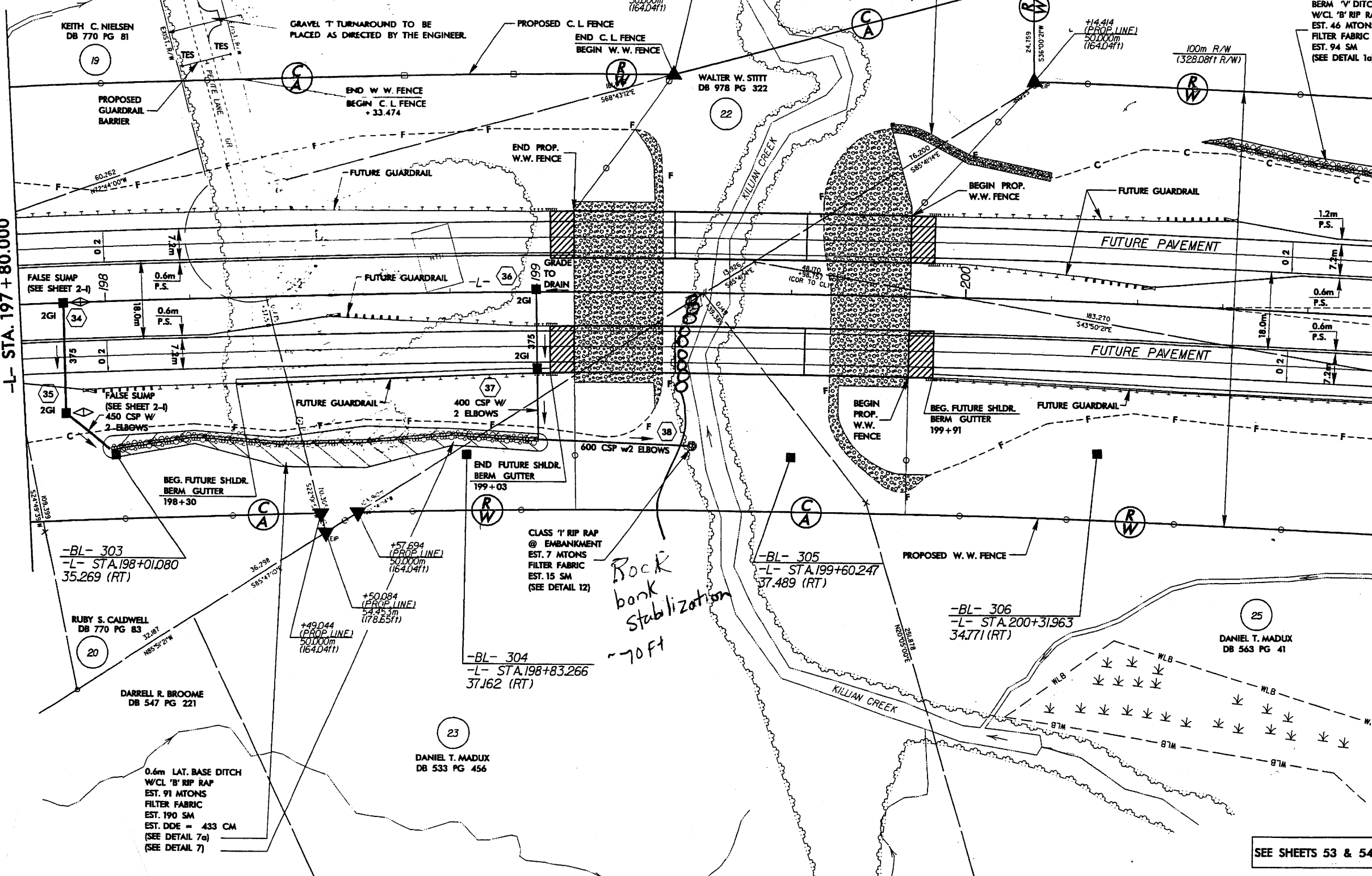
5 0 10

NAD 83

PI Sta 199+75.908
 $\Delta = 25^\circ 54' 22.0''$ (RT)
 $L = 1356.441$
 $R = 690.016$
 $e = 0.02$
 $RO = 35m$

MATCHLINE SEE SHEET 9
-L- STA. 197 + 80.000

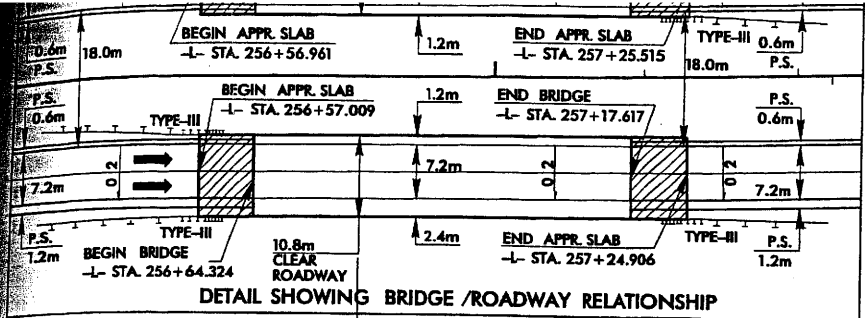
MATCHLINE SEE SHEET 11
-L- STA. 201 + 00.000



Rock bank stabilization
~70 FT

SEE SHEETS 53 & 54 FOR -L- PROFILE

1-SEP-2004 MS
REVISION AT 10:21:28



NAD 83

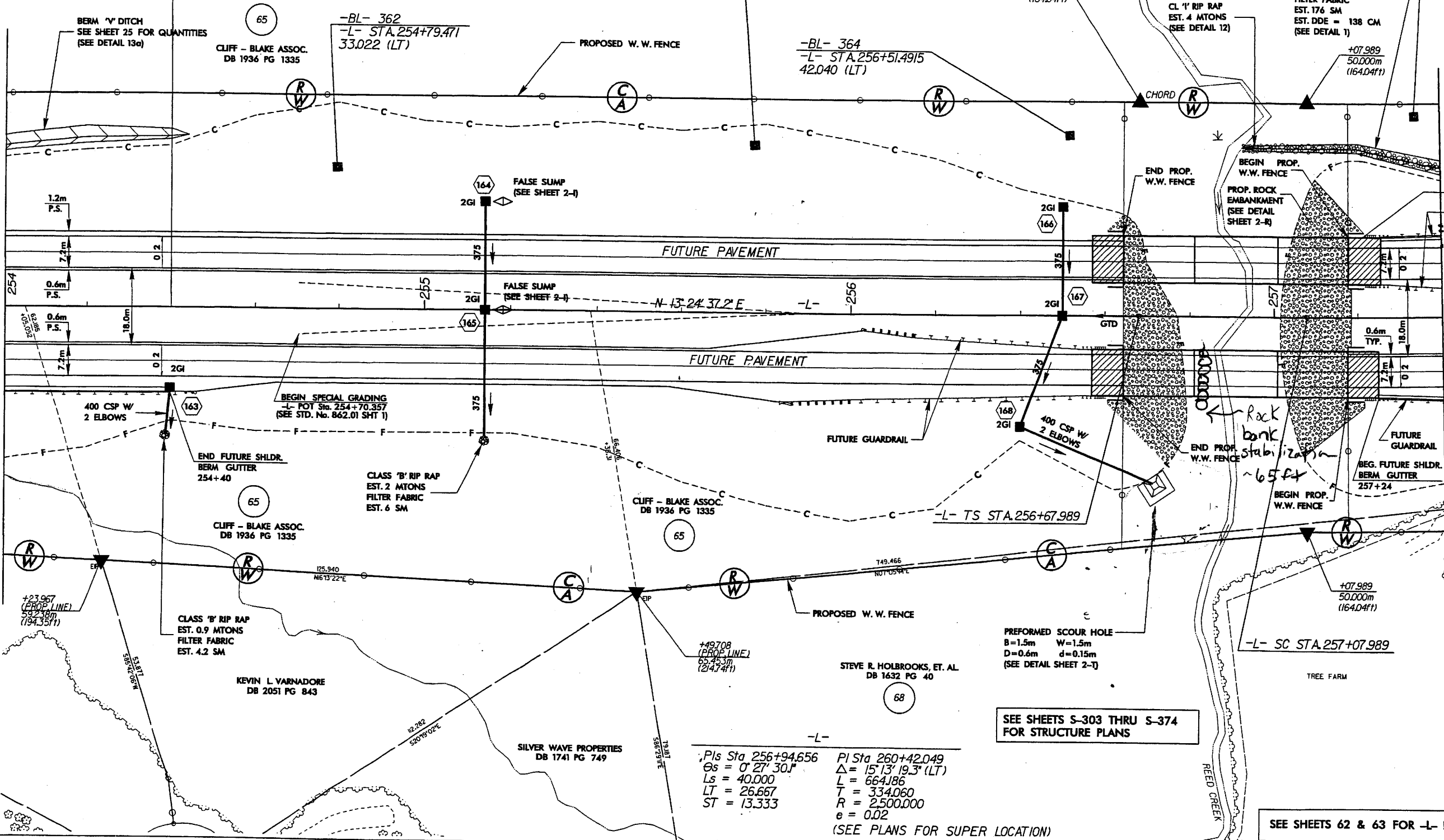
CONST. REV.

R/W REV.

PROFESSIONAL SEAL 15356 ENGINEER DAVID ALLEN 9-2-04

NORTH CAROLINA PROFESSIONAL SEAL 14160 DOUGLAS WINNERS 9/30/04

MATCHLINE SEE SHEET 25
-L- STA. 254 + 00.000

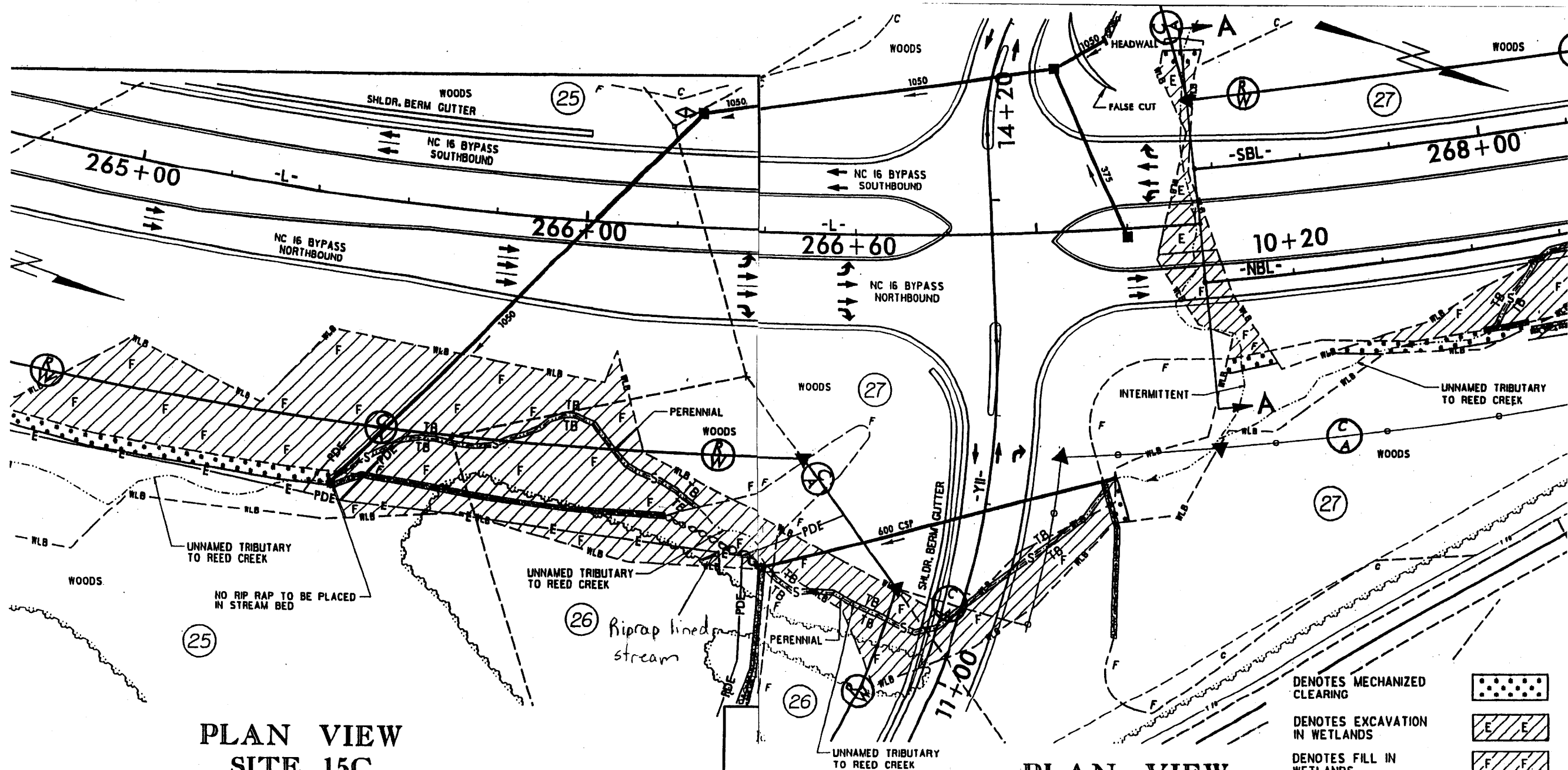


MATCHLINE SEE SHEET 27
-L- STA. 257 + 40.000

-L-
 Pls Sta 256+94.656 PI Sta 260+42.049
 $\Theta_s = 0^\circ 27' 30.1''$ $\Delta = 15^\circ 13' 19.3''$ (LT)
 $L_s = 40.000$ $L = 664.186$
 $LT = 26.667$ $T = 334.060$
 $ST = 13.333$ $R = 2,500.000$
 $e = 0.02$
 (SEE PLANS FOR SUPER LOCATION)

SEE SHEETS S-303 THRU S-374
FOR STRUCTURE PLANS

SEE SHEETS 62 & 63 FOR -L- PROFILE

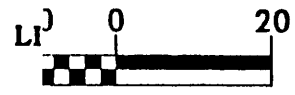


**PLAN VIEW
SITE 15C**

- DENOTES MECHANIZED CLEARING
- DENOTES FILL IN WETLANDS
- DENOTES SURFACE WATER IMPACT (NATURAL)

**PLAN VIEW
SITE 15C**

- DENOTES MECHANIZED CLEARING
- DENOTES EXCAVATION IN WETLANDS
- DENOTES FILL IN WETLANDS
- DENOTES SURFACE WATER IMPACT (NATURAL)



SHE

