



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

DIVISION OF HIGHWAYS

LYNDO TIPPETT
SECRETARY

October 5, 2007

Mr. Dave Timpy
U.S. Army Corps of Engineers
Post Office Box 1890
Wilmington, North Carolina 28402-1890

Mr. Stephen Lane
NC Division of Coastal Management
400 Commerce Avenue
Morehead City, NC 28857

SUBJECT: Request for Modification of 404 Individual Permit, 401 Water Quality Certification, and CAMA Major Development Permit: Second Bridge to Oak Island in Brunswick County; TIP R-2245; Federal Aid Project STP-1105 (06); State Project 8.2231201; \$100 Debit Work Order WBS # 34407.1.1.

Reference: USACE Action ID 199606041
DWQ Project No. 20070047, WQC No. 3608
CAMA Major Permit #20-07

The North Carolina Department of Transportation (NCDOT) is hereby requesting modifications to the 404 Individual Permit, 401 Water Quality Certification and CAMA Major Development Permit for the construction of the Second Bridge to Oak Island in Brunswick County, TIP R-2245. NCDOT is requesting authorization to change the alignment of the proposed bulkhead located at Sta. 56+40.47, adjacent to Bent 2 of the bridge over the AIWW (Site 5). The NCDOT has concerns with potential maintenance issues and scouring between the footer and bulkhead in the southeast corner as currently proposed.

To alleviate these concerns, the NCDOT is proposing to realign the bulkhead to encompass the bent as shown in the attached detail drawing. The proposed alignment will include a 60° angle at the proposed turn on the SW corner of the bent and a 30° angle at the NW corner, which will reduce debris jams, and vortexes that could cause scouring and other maintenance issues. The short 90° angles on the east side of the new alignment do not present any scouring concerns. To minimize new impacts the bulkhead will abut the outer edge of the footer, with the exception of the west wall that will be at a 60° skew and a small section on the west wall. The area inside the bulkhead under and around the footer will be back filled with earthen material after construction of the footer has been completed. The new alignment will permanently impact an additional 445 sq. ft (0.010 ac) of tidal mud flat (surface water). No jurisdictional wetlands will be impacted by this new alignment.

REGULATORY APPROVALS

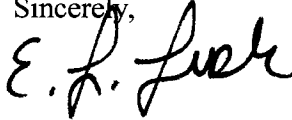
Section 404: NCDOT is hereby requesting a modification to the USACE Individual Permit, Action ID # 199606041, to allow for the realignment of the proposed bulkhead at Station 56+40.47 as described above and depicted on the attached drawings. The new alignment is being requested by NCDOT to reduce maintenance concerns, enhance safety and improve constructability of the structure.

Section 401: NCDOT is hereby requesting a modification to the 401 Water Quality Certification. In accordance with 15A NCAC 2H, Section .0500(a) we are providing five copies of this application to NC Division of Water Quality for their review and approval. The processing fee of \$100 will be debited for processing of the CAMA Permit Minor Modification.

CAMA: NCDOT is hereby requesting a Minor Modification to the CAMA Major Development Permit. We have provided a method of debiting \$100 to the NC Division of Coastal Management for the processing of the CAMA Permit Minor Modification, as noted in the subject line of this application, as payment for the processing the permit modification.

If you have any questions or need additional information concerning this request, please contact Brett Feulner at (919) 715-1488 or Mason Herndon in Division 3 at (910) 251-5724.

Sincerely,



REV

Gregory J. Thorpe, Ph.D., Environment Management Director
Project Development and Environmental Analysis Branch

GJT/tmh

cc w/attachment

Mr. John Hennessy, DWQ, Raleigh-5 Copies
Mr. Ken Averitte, DWQ, Fayetteville
Mr. Steve Sollod, NCDQM, Raleigh
Dr. David Chang, P.E., Hydraulics
Mr. Mark Staley, Roadside Environmental
Mr. Greg Perfetti, P.E., Structure Design
Mr. Victor Barbour, P.E., Project Services

Mr. Travis Wilson, NCWRC
Ms. Kathy Matthews, USEPA
Mr. Gary Jordan, USFWS
Mr. Ron Sechler, NMFS
Mr. Michael Street, NCDMF
Mr. H. Allen Pope, P.E., Div. 3 Engineer
Mr. Mason Herndon, Div. 3 DEO

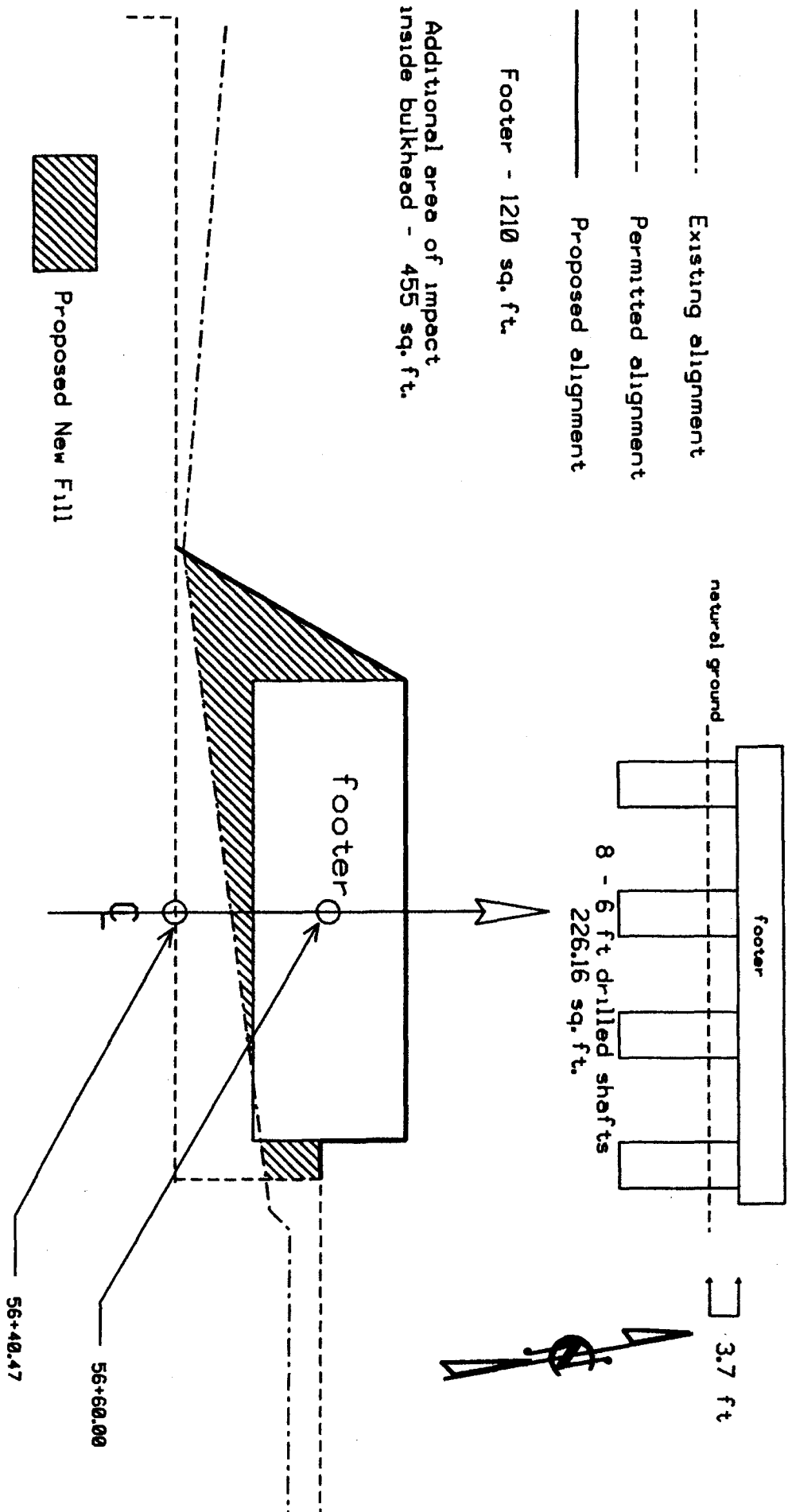
w/out attachment

Mr. Jay Bennett, P.E., Roadway Design
Mr. Majed Alghandour, P. E., Programming and TIP
Mr. Scott McLendon, USACE, Wilmington

Mr. Art McMillan, P.E., Highway Design
Mr. Joseph Qubain, PDEA

R-2245 BULKHEAD

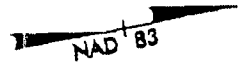
- Existing alignment
 - Permitted alignment
 - Proposed alignment
- Footer - 1210 sq. ft.
- Additional area of impact
inside bulkhead - 455 sq. ft.



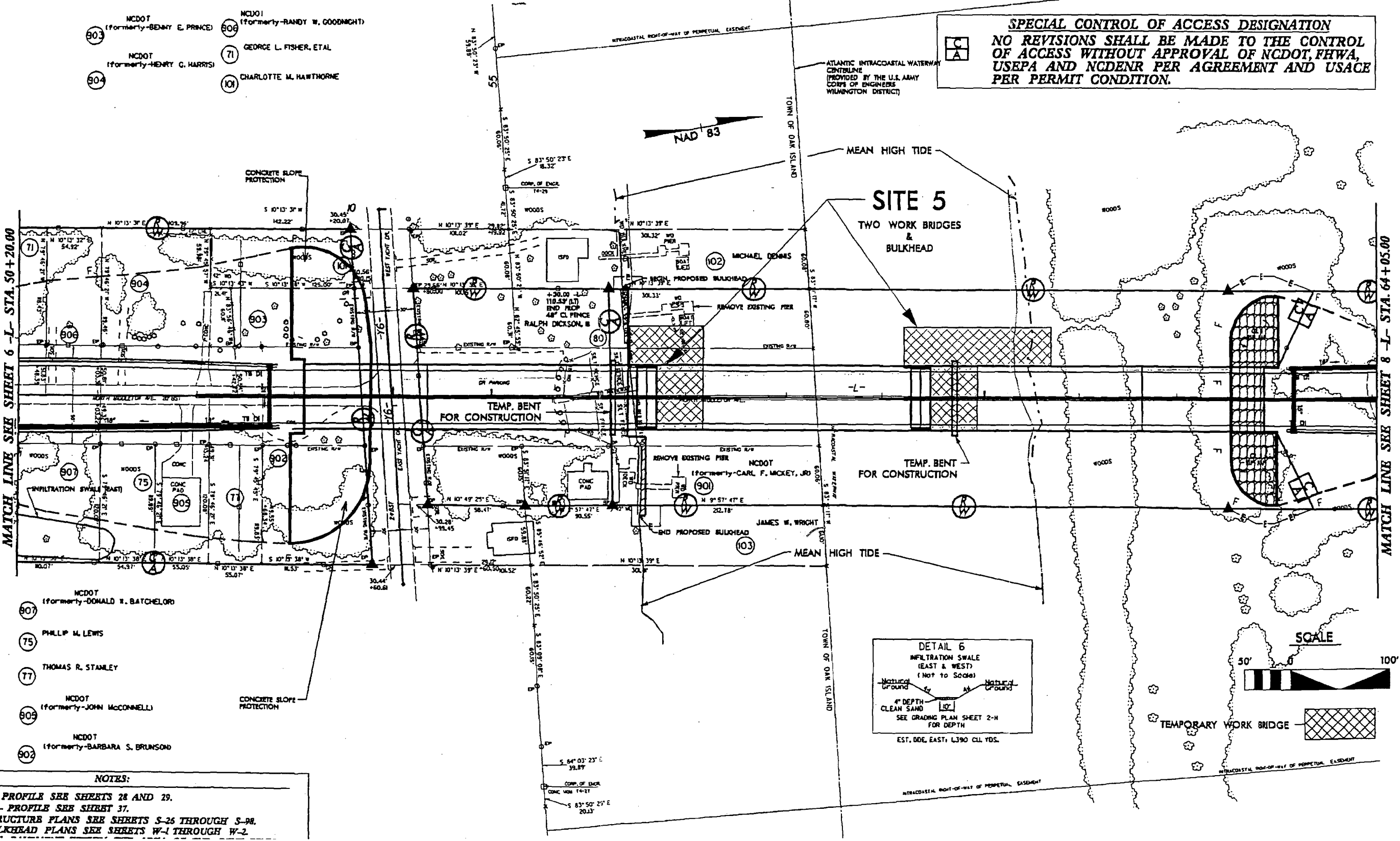
SEPT. 27, 2007

ENGLISH

PROJECT REFERENCE NO. R-2245	SHEET NO. 7
RDW SHEET NO.	HYDRAULIC ENGINEER
ROADWAY DESIGN ENGINEER	
PRELIMINARY PLANS DO NOT USE FOR CONSTRUCTION	



SPECIAL CONTROL OF ACCESS DESIGNATION
NO REVISIONS SHALL BE MADE TO THE CONTROL OF ACCESS WITHOUT APPROVAL OF NCDOT, FHWA, USEPA AND NCDENR PER AGREEMENT AND USACE PER PERMIT CONDITION.



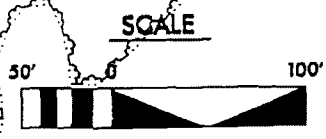
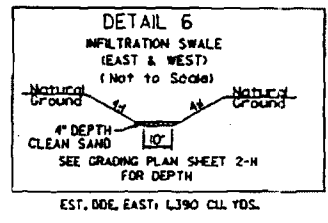
- 903 (Formerly-BENNY E. PRINCE)
- 906 (Formerly-RANDY W. GOODNIGHT)
- 71 GEORGE L. FISHER, ETAL
- 904 (Formerly-HENRY G. HARRIS)
- 101 CHARLOTTE M. HAWTHORNE

MATCH LINE SEE SHEET 6 -L- STA. 50 + 20.00

MATCH LINE SEE SHEET 8 -L- STA. 64 + 05.00

- 907 (Formerly-DONALD W. BATCHELOR)
- 75 PHILLIP M. LEWIS
- 77 THOMAS R. STANLEY
- 905 (Formerly-JOHN McCONNELL)
- 902 (Formerly-BARBARA S. BRUNSON)

NOTES:
 1) FOR -L- PROFILE SEE SHEETS 28 AND 29.
 2) FOR -Y6- PROFILE SEE SHEET 37.
 3) FOR STRUCTURE PLANS SEE SHEETS S-26 THROUGH S-98.
 4) FOR BULKHEAD PLANS SEE SHEETS W-1 THROUGH W-2.

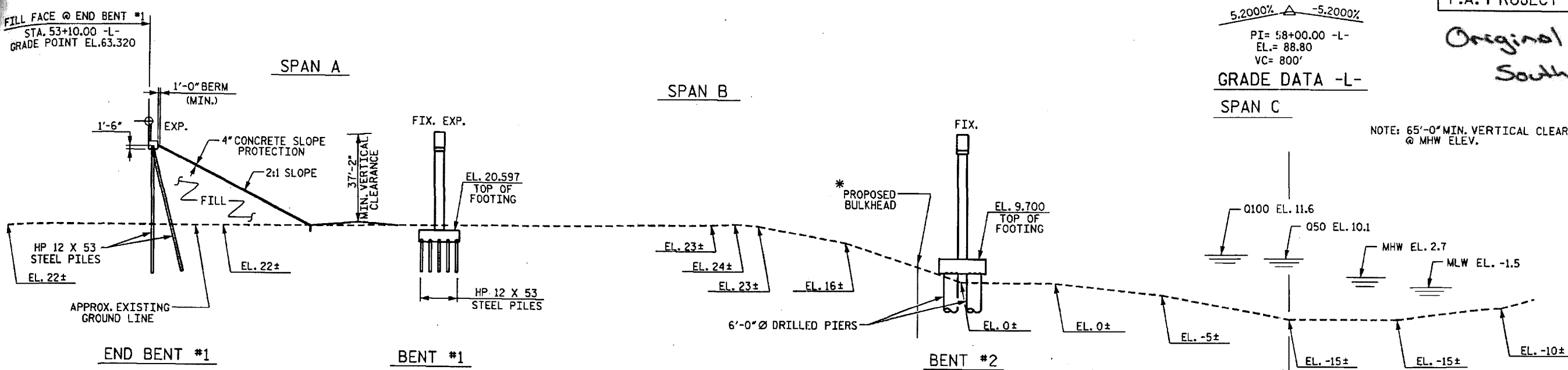


8/17/99
 2006 16136 m1152245 perm1 psh 07.dgn
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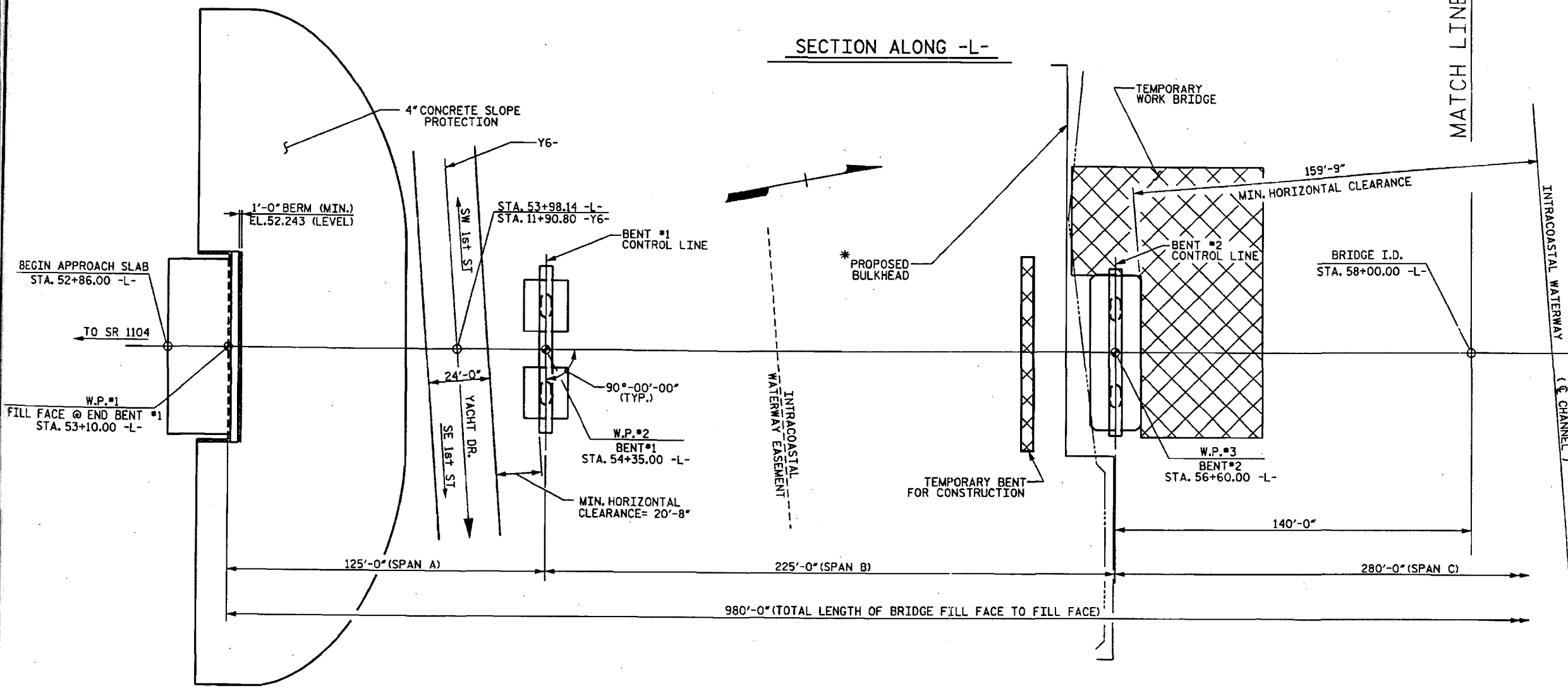
Original Proposal
South Side

5.2000% Δ -5.2000%
PI= 58+00.00 -L-
EL.= 88.80
VC= 800'
GRADE DATA -L-
SPAN C

NOTE: 65'-0" MIN. VERTICAL CLEARANCE @ MHW ELEV.



SECTION ALONG -L-



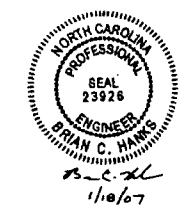
PLAN

(PILES AND DRILLED PIERS NOT SHOWN FOR CLARITY)

PROJECT NO. R-2245
BRUNSWICK COUNTY
STATION: 58+00.00 -L-

SHEET 1 OF 6 BRIDGE NO. 229

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
GENERAL DRAWING
FOR BRIDGE ON SR 1105
NORTH MIDDLETON AVE. OVER
THE INTRACOASTAL WATERWAY
BETWEEN SR 1104 AND NC211



DRAWN BY: R.D. MARTIN DATE: 4/8/05
CHECKED BY: B.C. HANKS DATE: 9/6/06

REVISIONS						SHEET NO.	
NO.	BY	DATE	NO.	BY	DATE	5-26	
1			3			TOTAL SHEETS	