



STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION

MICHAEL F. EASLEY
GOVERNOR

LYNDO TIPPETT
SECRETARY

July 8, 2004

US Army Corps of Engineers
Regulatory Field Office
P.O. Box 1000
Washington, NC 27889-1000

ATTENTION: Mr. Mike Bell
NCDOT Coordinator

Dear Sir:

Subject: **Nationwide 23 Permit Application** for the replacement of Bridge No. 77 over Unnamed Tributary to Deep Creek on SR 1105 in Halifax County, Division 4. Federal Project No. BRZ-1105(8), State Project No. 8.2301501, T.I.P. No. B-4134.

Please find enclosed three copies of the project planning report for the above referenced project. Bridge No. 77 will be replaced at the existing location with an 80-foot cored slab structure providing two 11-foot travel lanes with 3-foot offsets on each side. The roadway approach work will extend approximately 383-feet from both ends of the new bridge structure. As replacing Bridge No. 77 will necessitate closure of SR 1105 in the project vicinity, traffic will be maintained by an off-site detour.

Tar-Pamlico Basin Buffer Rules

This project is located in the Tar-Pamlico River Basin (subbasin 03-03-04, TAR4 03020102), therefore the regulations pertaining to the Tar-Pamlico River Buffer Rules (15A NCAC 2B.0259) apply. Buffer impacts associated with this project total 871.2 sq. ft (0.02 acre) for Zone 1 and 1,306.8 sq. ft (0.03 acre) for Zone 2. All practicable measures to minimize impacts within buffer zones were followed. Measures used to minimize impacts to the buffer zone include using the current alignment. According to the buffer rules, bridges are allowable. Uses designated as allowable may proceed within the riparian buffer provided that there are no practical alternatives to the requested use pursuant to item (8) of this Rule. These uses require written authorization from the division or the delegated local authority. Therefore, NCDOT requests written authorization for a Buffer Certification from the Division of Water Quality.

Bridge Demolition

Bridge No. 77 is a 52-foot long, three-span structure, composed of a timber deck on timber joists with a bridge deck width of 22-feet. The substructure is timber piles and timber caps. The bridge deck is 13-feet above Unnamed Tributary to Deep Creek (UT Deep Creek).

As Bridge No. 77 is composed primarily of timber, the bridge will be removed without dropping components into “Waters of the “United States”. NCDOT’s Best Management Practices for Bridge Demolition and Removal will be applied for the removal of this bridge.

Impacts to Waters of the United States

Permanent Impacts: Wetlands surrounding Unnamed Tributary to Deep Creek will be impacted by the proposed project. Construction of approach shoulders leading to the wider structure will result in a total of 0.00327 acre (142.4 ft²) of fill in jurisdictional wetland. A preformed scour hole, necessary for stormwater control, will result in 0.00634 acre (276.3 ft²) of excavation in jurisdictional wetland.

Federally Protected Species

Plants and animals with federal classifications of Endangered (E), Threatened (T), Proposed Endangered (PE), Proposed Threatened (PT), are protected under provisions of Section 7 and Section 9 of the Endangered Species Act of 1973, as amended. As of January 29, 2003, the United States Fish and Wildlife Service (USFWS) lists four federally protected species for Halifax County (Table 1). A description of each species and Biological Conclusions are provided in the referenced Natural Resources Technical Report (NRTR). Surveys of the project area were completed on September 23, 2002 for the dwarf-wedgemussel and Tar spiny mussel and on April 1, 2004 for the bald eagle. As potential habitat exists in the project area for the two mussel species, and potential foraging habitat exists in the project area for the bald eagle, the Biological Conclusion for these species is “May Affect, Not Likely to Adversely Affect”. The Biological Conclusion for the red-cockaded woodpecker remains “No Effect” due to lack of habitat in the project area. Concurrence was received from the USFWS on these species in February 2003 for the dwarf-wedgemussel and Tar spiny mussel, and April 2004 for the Bald Eagle.

Table 1. Federally-Protected Species for Halifax County

Common Name	Scientific Name	Federal Status	Biological Conclusion
Bald eagle	<i>Haliaeetus leucocephalus</i>	T (Proposed for delisting)	May Affect, Not Likely to Adversely Affect
Red-cockaded woodpecker	<i>Picoides borealis</i>	E	No Effect
Dwarf wedge mussel	<i>Alasmidonta heterodon</i>	E	May Affect, Not Likely to Adversely Affect
Tar spiny mussel	<i>Elliptio steinstansana</i>	E	May Affect, Not Likely to Adversely Affect

“E” denotes Endangered (a species that is in danger of extinction throughout all or a significant portion of its range).

“T” denotes Threatened (a species that is likely to become an endangered species within the foreseeable future throughout all or a significant portion of its range).

Regulatory Approvals

Section 404 Permit: This project is being processed by the Federal Highway Administration as a "Categorical Exclusion" in accordance with 23 CFR 771.115(b). Therefore, we do not anticipate requesting an individual permit but propose to proceed under a Nationwide 23 as authorized by a Nationwide Permit 23 (67 FR 2020; January 15, 2002).

Section 401 Permit: We anticipate that 401 General Certification number 3403 will apply to this project. In accordance with 15A NCAC 2H, Section .0500(a) we are providing two copies of this application to the North Carolina Department of Environmental and Natural Resources, Division of Water Quality, for their review.

In accordance with 15A NCAC 2H .0501(a), NCDOT is providing two copies of this application to the NC Department of Environment and Natural Resources (NCDENR), Division of Water Quality (DWQ) for review and requests the issuance of a Tar-Pamlico Buffer Certification for impacts to Tar-Pamlico Buffers in compliance with the Tar-Pamlico Buffer Rules.

A copy of this permit application will be posted on the DOT website at: <http://www.ncdot.org/planning/pe/naturalunit/Permit.html>.

If you have any questions or need additional information, please contact Mr. Michael Turchy at maturchy@dot.state.nc.us or (919) 715-1468.

Sincerely,



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

cc:

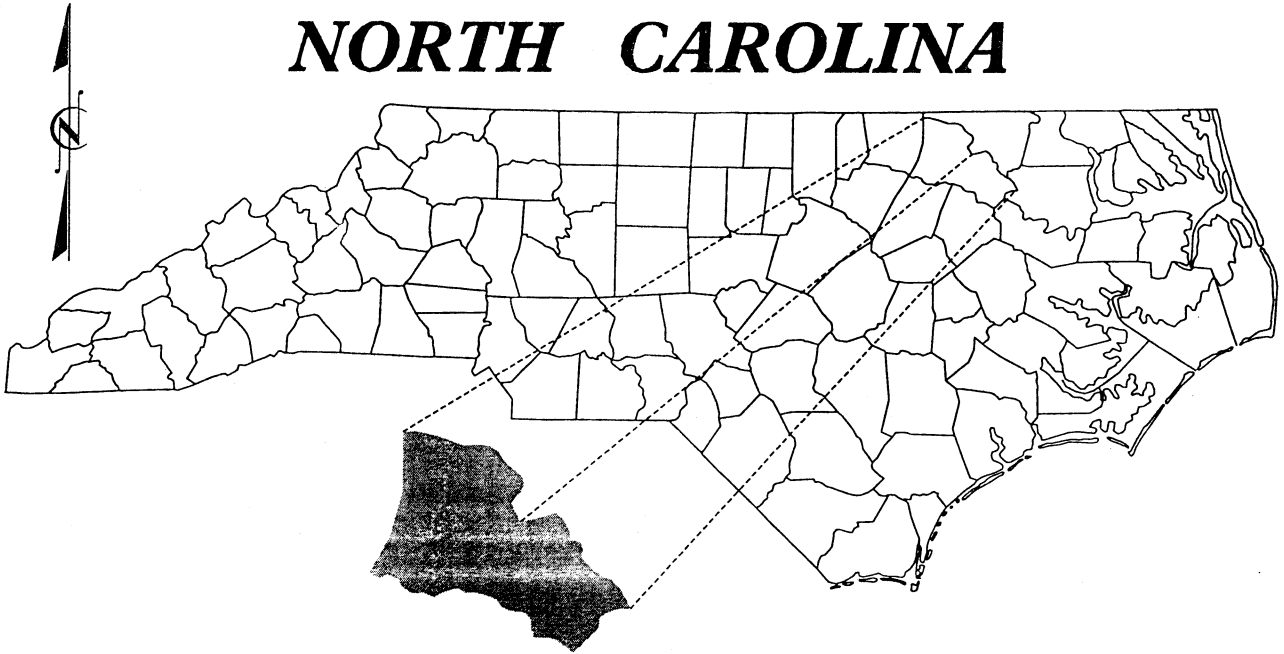
W/attachment

Mr. John Hennessy, Division of Water Quality (7 copies)
Mr. Travis Wilson, NCWRC
Mr. David Chang, P.E., Hydraulics
Mr. Greg Perfetti, P.E., Structure Design
Jim Trogdon, PE, Division Engineer (Division 4)
Mr. Jamie Shern, Division 4 DEO
Mr. David Franklin, USACE, Wilmington (Cover Letter Only)

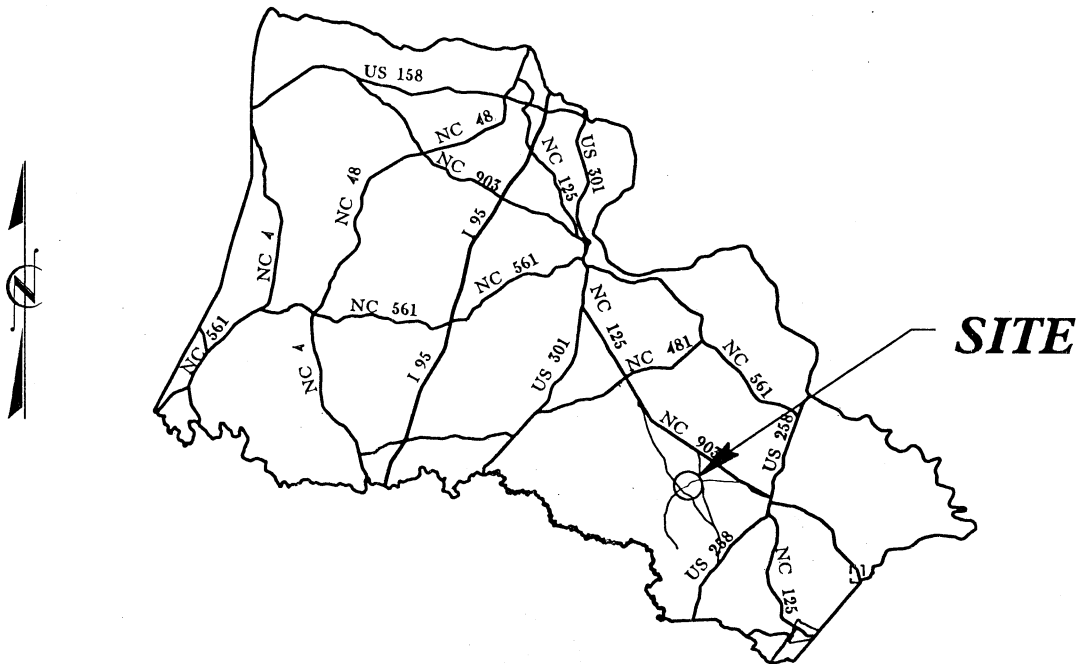
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Mr. Jay Bennett, P.E., Roadway Design
Mr. Omar Sultan, Programming and TIP
Mr. Art McMillan, P.E., Highway Design
Mr. Mark Staley, Roadside Environmental
Mr. David Franklin, USACE, Wilmington
Mr. John Williams, P.E., PDEA Project Development Engineer

NORTH CAROLINA

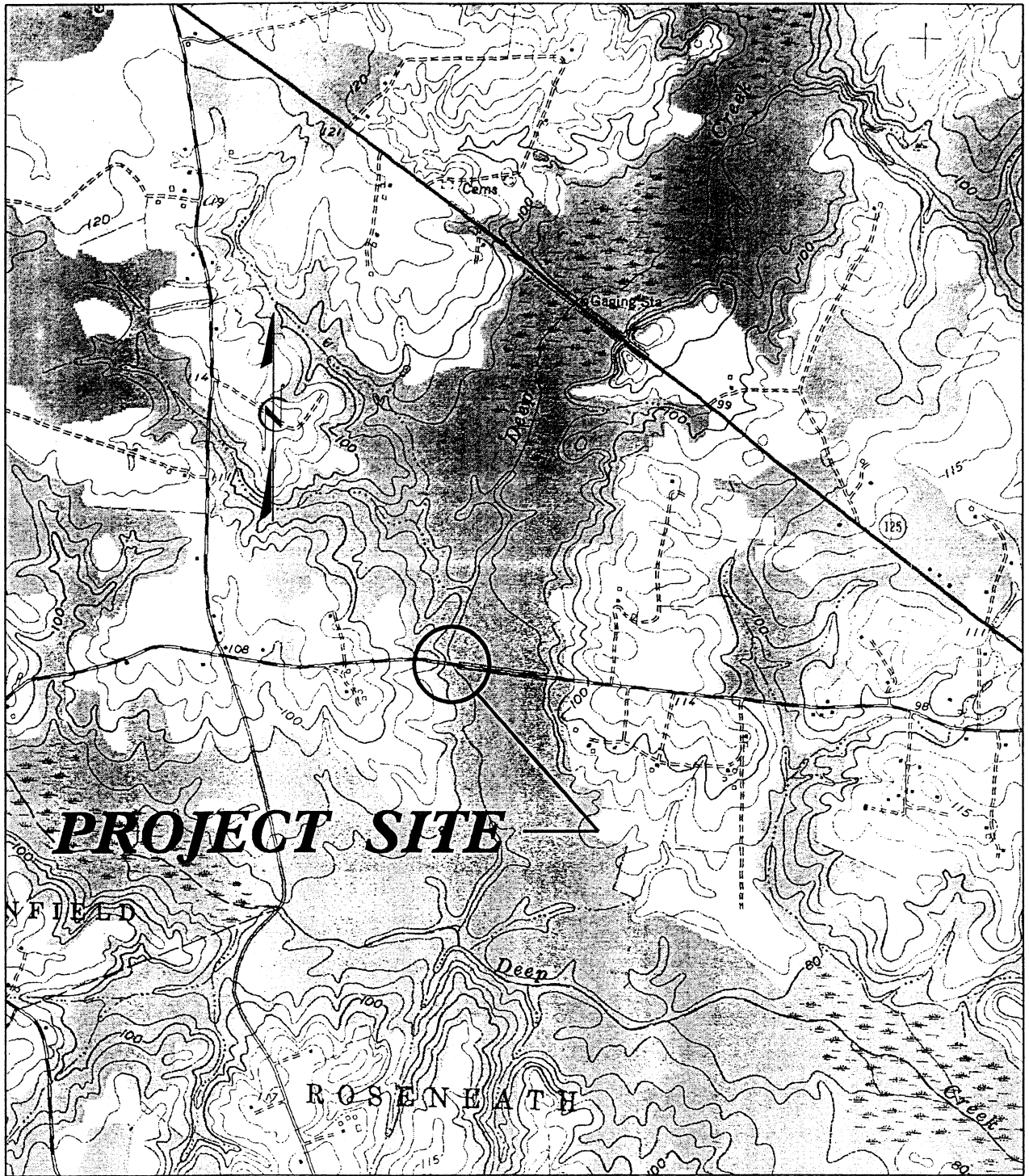


HALIFAX COUNTY



VICINITY MAP

WETLAND & SURFACE WATER
N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS
HALIFAX COUNTY
PROJECT: 8.2301501 (B-4134)
SR 1105
BETWEEN SR 1104 AND
NC 125 // NC 903
SHEET 1 OF 8 DATE 6/29/2004



PROJECT SITE

SITE MAP

WETLAND AND SURFACE WATER
 N. C. DEPT. OF TRANSPORTATION
 DIVISION OF HIGHWAYS

HALIFAX COUNTY

PROJECT: 8.2301501 (B-4134)

SR 1105

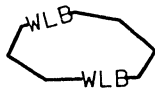
BETWEEN SR 1104 AND
 NC 125 / NC 903

SHEET 2 OF 8 DATE 6/29/04

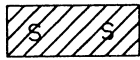
WETLAND

LEGEND

— WLB — WETLAND BOUNDARY

 WETLAND

 DENOTES FILL IN WETLAND

 DENOTES FILL IN SURFACE WATER

 DENOTES FILL IN SURFACE WATER (POND)

 DENOTES TEMPORARY FILL IN WETLAND

 DENOTES EXCAVATION IN WETLAND

 DENOTES TEMPORARY FILL IN SURFACE WATER

 DENOTES MECHANIZED CLEARING

→ → FLOW DIRECTION

— TB — TOP OF BANK

— WE — EDGE OF WATER

--- C --- PROP. LIMIT OF CUT

--- F --- PROP. LIMIT OF FILL

— △ — PROP. RIGHT OF WAY

--- NG --- NATURAL GROUND

--- PL --- PROPERTY LINE

— TDE — TEMP. DRAINAGE EASEMENT


— PDE — PERMANENT DRAINAGE EASEMENT

--- EAB --- EXIST. ENDANGERED ANIMAL BOUNDARY

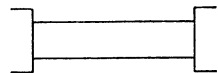
--- EPB --- EXIST. ENDANGERED PLANT BOUNDARY

—▽— WATER SURFACE


x x x x
x x x x
LIVE STAKES


 BOULDER

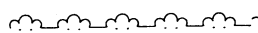
--- CORE FIBER ROLLS

 PROPOSED BRIDGE

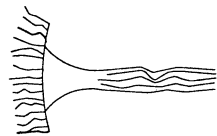
 PROPOSED BOX CULVERT


 PROPOSED PIPE CULVERT
(DASHED LINES DENOTE EXISTING STRUCTURES)
12"-48" PIPES
54" PIPES & ABOVE


 SINGLE TREE

 WOODS LINE

 DRAINAGE INLET

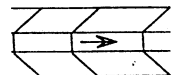
 ROOTWAD

 RIP RAP

 5
ADJACENT PROPERTY OWNER OR PARCEL NUMBER IF AVAILABLE

 PREFORMED SCOUR HOLE

 LEVEL SPREADER (LS)

 DITCH / GRASS SWALE

WETLAND & SURFACE WATER

N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

HALIFAX COUNTY

PROJECT: 8.2301501 (B-4134)

SR 1105

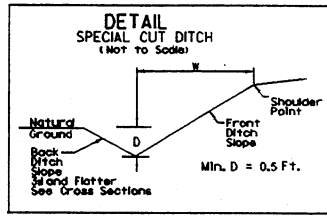
BETWEEN SR 1104 AND

NC 125 // NC 903

SHEET 3 OF 8 DATE 6/29/04

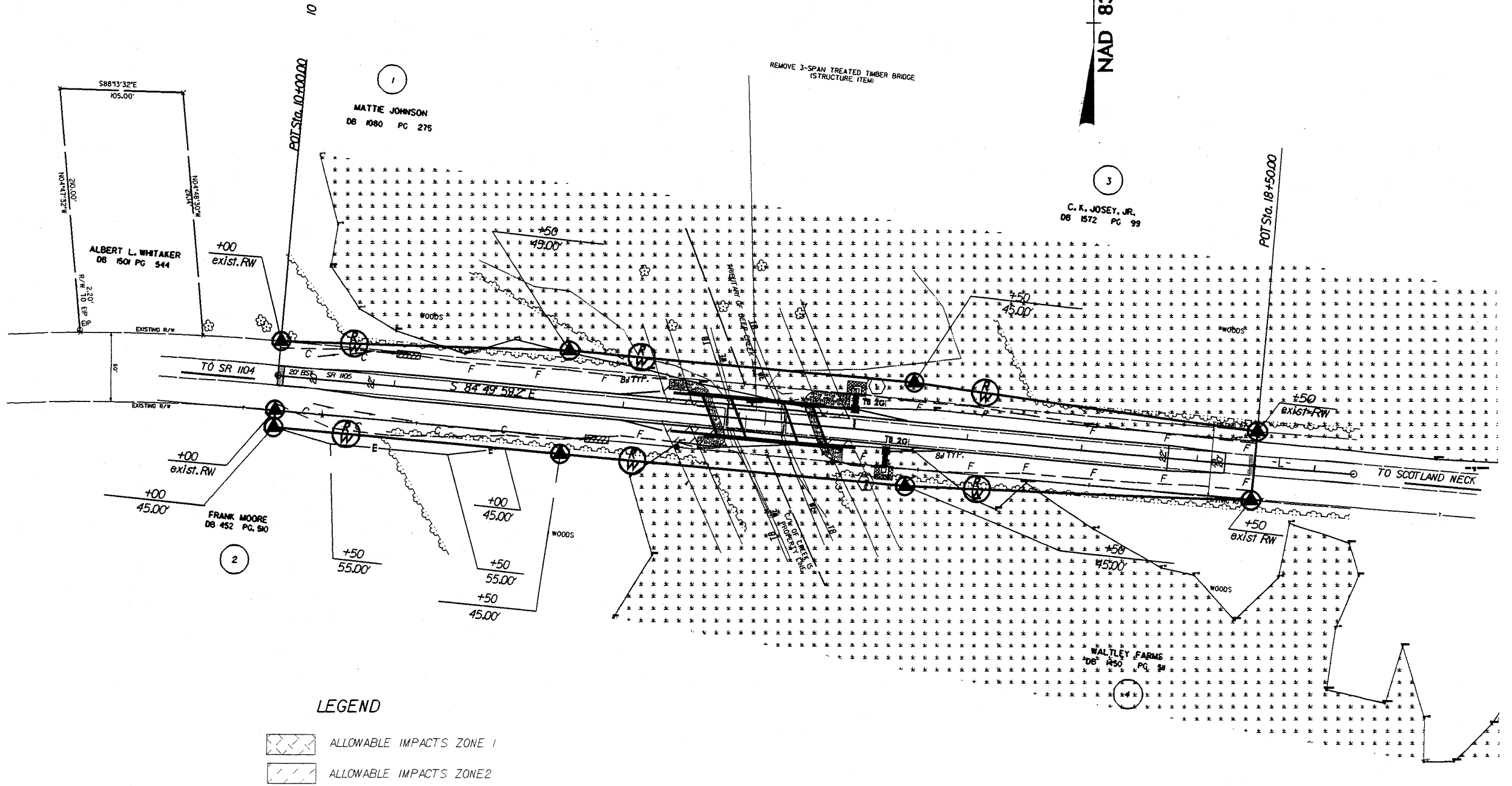
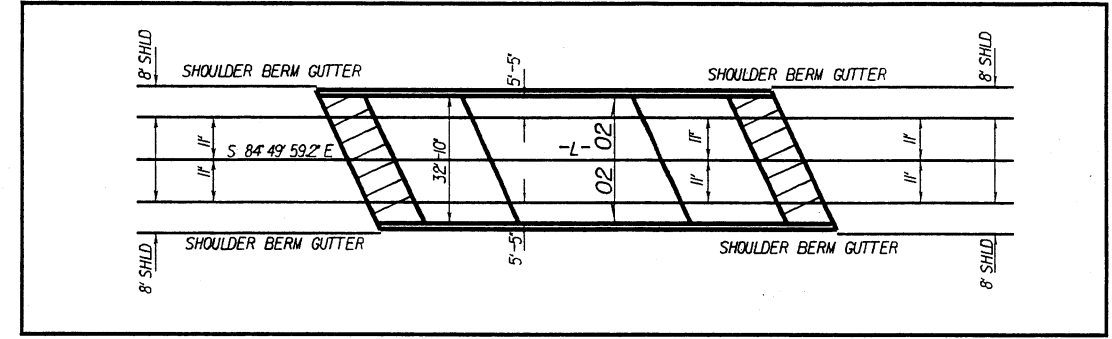
PROJECT REFERENCE NO. B-4134	SHEET NO. 4
Roadway Design Engineer	Hydraulics Engineer

BUFFER PLANS



FROM -L- STA 10+35 LT to -L- STA 8+00 LT
Front Slope 4d to 6d
W = 12'

FROM -L- STA 10+35 RT to -L- STA 12+70 RT
Front Slope 4d to 6d
W = 12'



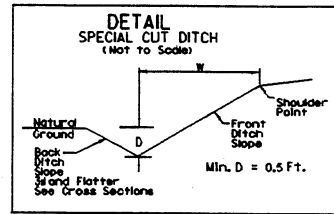
LEGEND

- ALLOWABLE IMPACTS ZONE 1
- ALLOWABLE IMPACTS ZONE 2

5/14/9
28-JUN-2004 10:27
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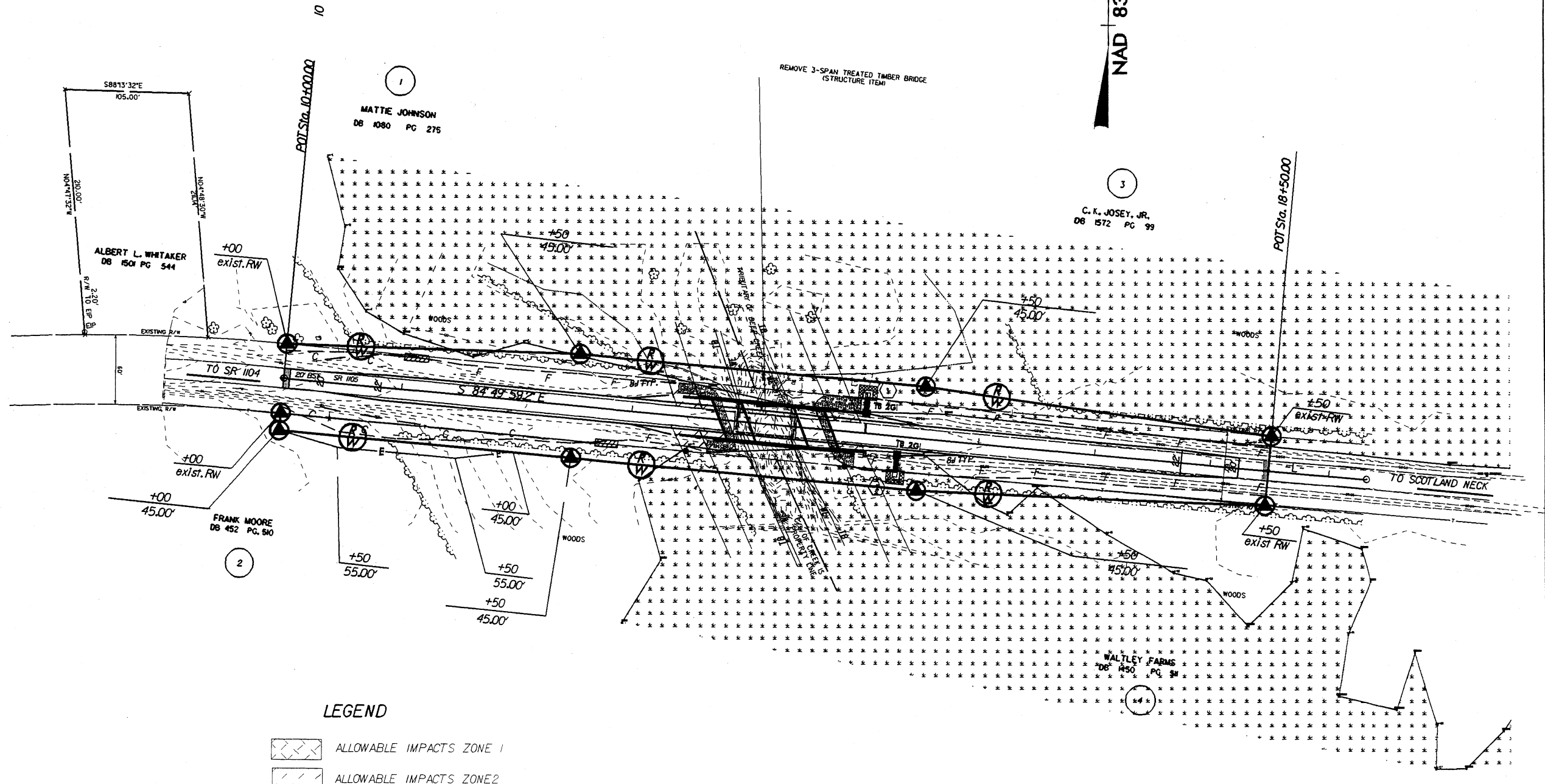
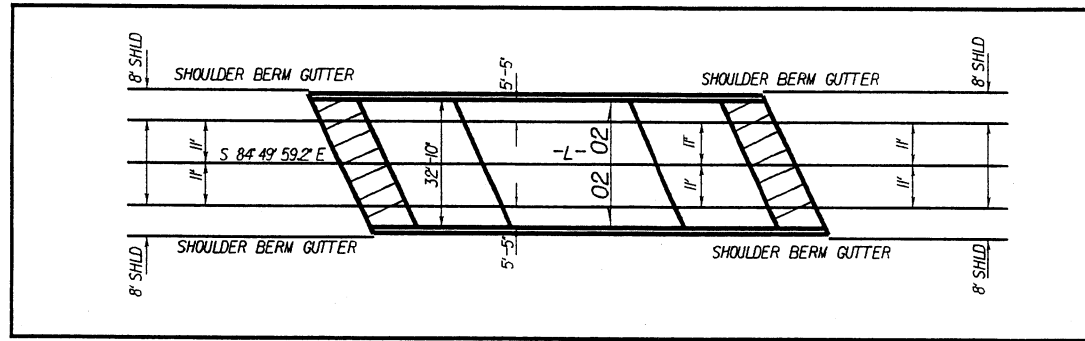
PROJECT REFERENCE NO.		SHEET NO.	
B-4134		4A	
RW SHEET NO.			
ROADWAY DESIGN ENGINEER		HYDRAULICS ENGINEER	

BUFFER PLANS





FROM -L- STA 10+35 LT to -L- STA 10+00 LT
Front Slope 4:1 to 6:1
W = 12'

FROM -L- STA 10+35 RT to -L- STA 12+70 RT
Front Slope 4:1 to 6:1
W = 12'

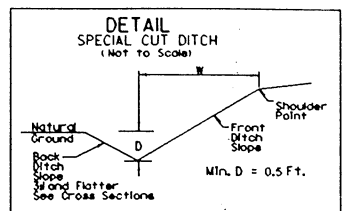


LEGEND

-  ALLOWABLE IMPACTS ZONE 1
-  ALLOWABLE IMPACTS ZONE 2

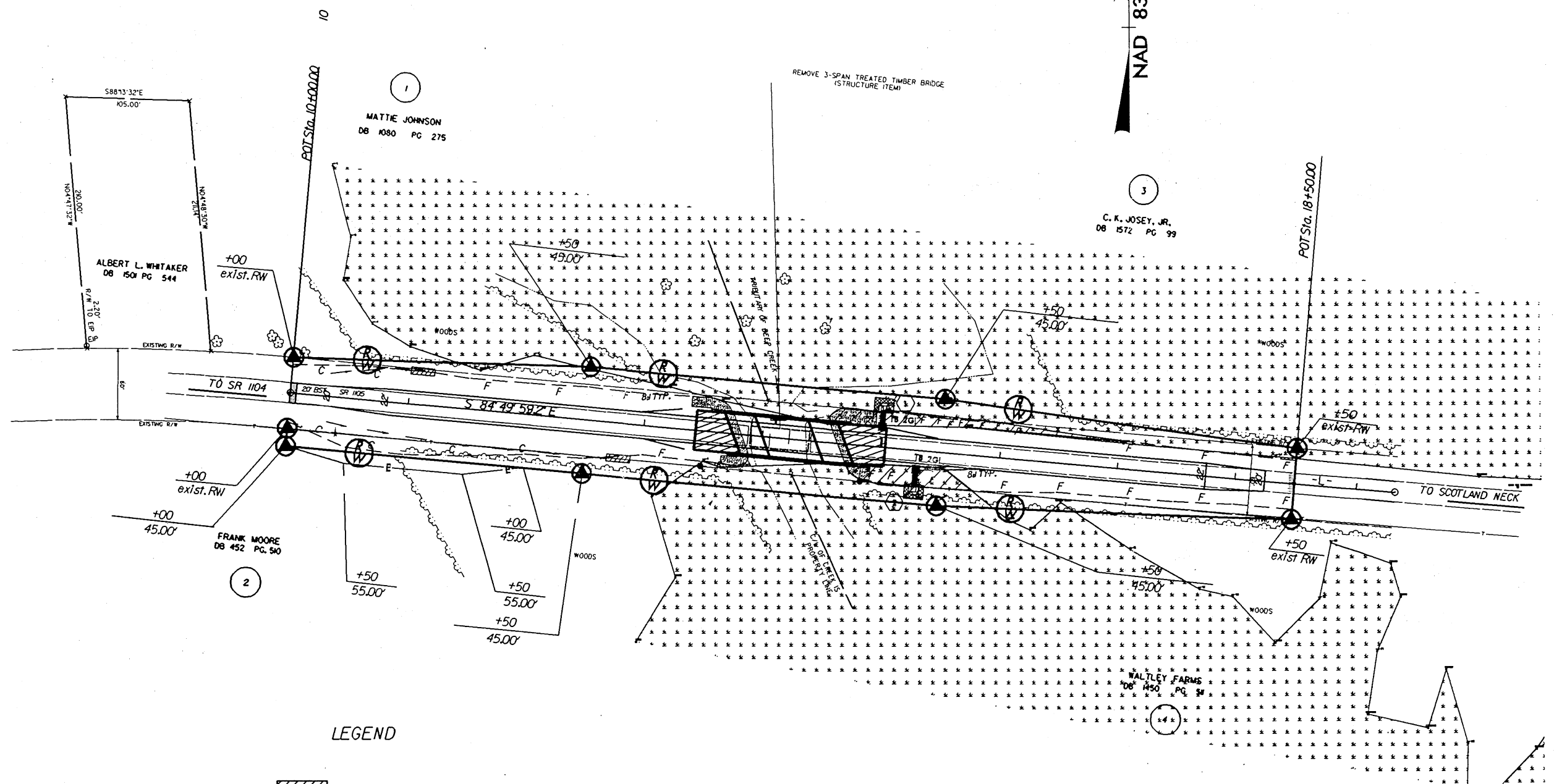
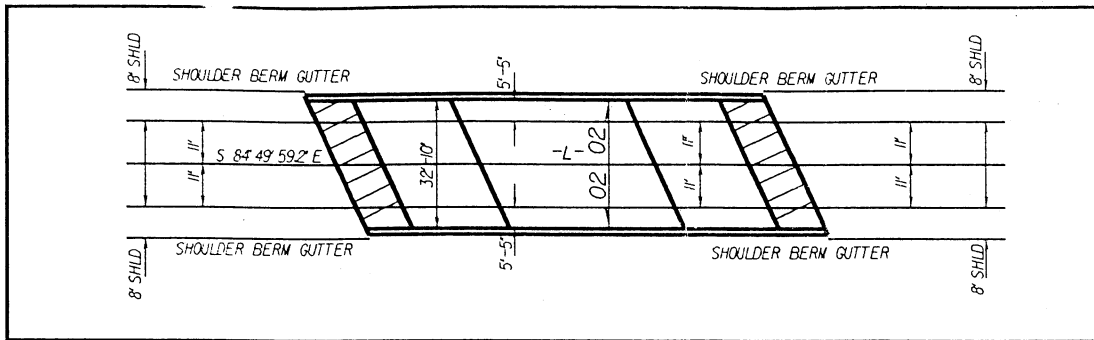
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number: A

PROJECT REFERENCE NO. B-4134	SHEET NO. 4
RW SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



FROM -L- STA 10+35 LT to -L- STA 10+00 LT
Front Slope 4:1 to 6:1
W = 12'

FROM -L- STA 10+35 RT to -L- STA 12+70 RT
Front Slope 4:1 to 6:1
W = 12'



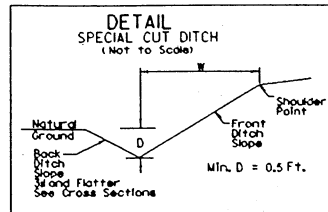
LEGEND

- FILL IN WETLANDS
- EXCAVATION IN WETLANDS

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 Number 1

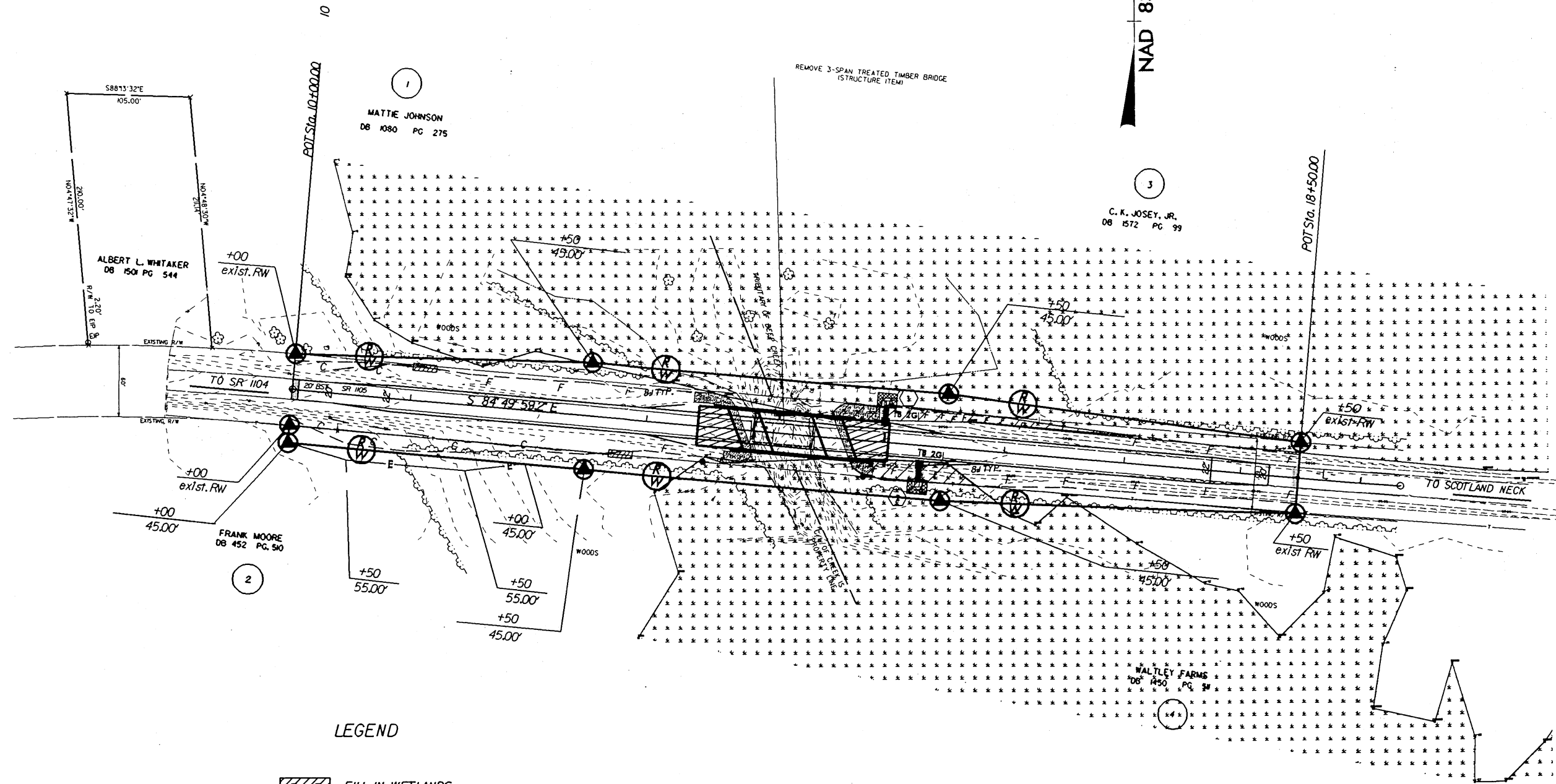
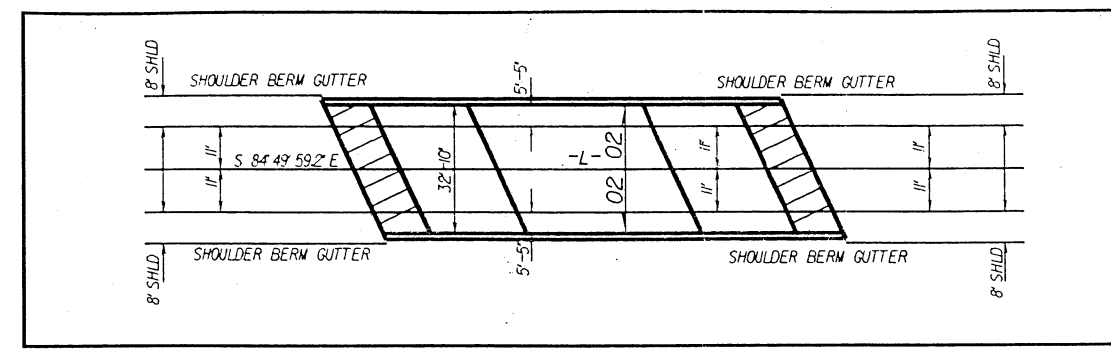
REV 6/04

PROJECT REFERENCE NO. B-4134	SHEET NO. 4
R/W SHEET NO. ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER



FROM -L- STA 10+35 LT to -L- STA 8+00 LT
Front Slopes 4:1 to 6:1
W = 12'

FROM -L- STA 10+35 RT to -L- STA 12+70 RT
Front Slopes 4:1 to 6:1
W = 12'



LEGEND

FILL IN WETLANDS

EXCAVATION IN WETLANDS

REV 6/04

15 JUN 2004 10:35
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BUFFER IMPACTS SUMMARY

SITE NO.	STRUCTURE SIZE / TYPE	STATION (FROM/TO)	IMPACT						BUFFER REPLACEMENT				
			TYPE		ALLOWABLE		MITIGABLE		ZONE 1 (ft²)	ZONE 2 (ft²)			
			ROAD CROSSING	PARALLEL IMPACT	ZONE 1 (ft²)	ZONE 2 (ft²)	TOTAL (ft²)	ZONE 1 (ft²)	ZONE 2 (ft²)	TOTAL (ft²)			
1	Bridge	-L- Sta. 14+230+/-		X	871.2	1,360.8	2,178.0						
TOTAL:					871.2	1,360.8	2,178.0	0.0	0.0	0.0			

N.C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

Halifax County
PROJECT 8.2301501 B-4134) WBS: 33487.1.1
Bridge # 77 on SR 1105 over UT to Deep Creek

6/28/2004
SHEETS OF

WETLAND PERMIT IMPACT SUMMARY

Site No.	Station (From/To)	Structure Size / Type	WETLAND IMPACTS				SURFACE WATER IMPACTS										
			Fill In Wetlands (ac)	Temp. Fill In Wetlands (ac)	Excavation In Wetlands (ac)	Mechanized Clearing (Method III) (ac)	Fill In SW (Natural) (ac)	Fill In SW (Pond) (ac)	Temp. Fill In SW (ac)	Existing Channel Impacted (ft)	Natural Stream Design (ft)						
1	13+60 Lt.	ROADWAY FILL	<0.01														
2	13+70 Rt.	ROADWAY FILL	<0.01														
3	15+00 Lt.	ROADWAY FILL	0.04														
4	15+00 Rt.	ROADWAY FILL	0.03														
5	15+00 Lt.	PREFORMED SCOUR HOLE			<0.01												
6	15+30 Rt.	PREFORMED SCOUR HOLE			<0.01												
TOTALS:			0.07	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00

NC DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 HALIFAX COUNTY
 PROJECT: 8.2301501 (B-4134)
 SR 1105 BETWEEN SR 1104 AND
 NC 1250/ NC 903
 SHEET **6** 6/4/c7

PROPERTY OWNER
NAME AND ADDRESS

OWNER'S NAME	ADDRESS
① MATTIE JOHNSON	1814 SAND PIT ROAD SCOTLAND NECK, NC 27874
② FRANK MOORE	1959 SAND PIT ROAD SCOTLAND NECK, NC 27874
③ C.K. JOSEY	1304 SAND PIT ROAD SCOTLAND NECK, NC 27874
④ WALTLEY FARMS	10535 HWY 258 SCOTLAND NECK, NC 27874

WETLAND & SURFACE WATER
N. C. DEPT. OF TRANSPORTATION
DIVISION OF HIGHWAYS

HALIFAX COUNTY
PROJECT: 8.2301501 (B-4134)
SR 1105
BETWEEN SR 1104 AND
NC 125 / NC 903
SHEET **7** OF DATE 6/29/04

