

JOINT  
PUBLIC NOTICE

CHARLESTON DISTRICT, CORPS OF ENGINEERS  
69A Hagood Avenue  
Charleston, South Carolina 29403-5107

and  
THE S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL  
Office of Environmental Quality Control  
Water Quality Certification and Wetlands Programs Section  
2600 Bull Street  
Columbia, South Carolina 29201

REGULATORY DIVISION

Refer to: P/N #2012-0063-1W

3 February 2012

Pursuant to Section 10 of the Rivers and Harbors Act of 1899 (33 U.S.C. 403), Sections 401 and 404 of the Clean Water Act (33 U.S.C. 1344), and the South Carolina Coastal Zone Management Act (48-39-10 et.seq.) an application has been submitted to the Department of the Army and the S.C. Department of Health and Environmental Control by

THE CITY OF NORTH CHARLESTON  
c/o RED BAY ENVIRONMENTAL  
720 HAWKSBILL COURT  
MT. PLEASANT, SOUTH CAROLINA 29464

for a permit to fill material in wetlands and waters of the U.S. of

**BLUE HOUSE SWAMP**

at locations near the terminus of Northside Drive within the southern portion of the project and the existing terminus of Weber Drive within the northern portion of the project in the City of North Charleston, Charleston County, South Carolina (Latitude 32.9758° and 32.9619°, Longitude -80.0875° and -80.0800°)

In order to give all interested parties an opportunity to express their views

**NOTICE**

is hereby given that written statements regarding the proposed work will be received by both of the above mentioned offices until

**30 DAYS FROM THE DATE OF THIS NOTICE**

from those interested in the activity and whose interests may be affected by the proposed work.

The proposed work consists of the construction of two roadway segments located south of US Highway 78 and west of I-26 that will connect the existing Northside Drive with the existing Weber Drive (Northside Drive extension also referred to as Division II and Project A) and Palmetto Commerce Parkway to the new Northside Drive Extension (Future Drive also referred to as Division III and Project B). Specifically, the project consists of the placement of fill material in 5.645 acres of jurisdictional freshwater wetlands and mechanical clearing in 3.855 acres of jurisdictional freshwater wetlands. The project also includes impacts to non-jurisdictional wetlands, the placement of fill material in 0.825 acres of non-jurisdictional wetlands and mechanical clearing in 0.189 acres of non-jurisdictional freshwater wetlands. In addition, the project includes two flat slab bridge sections: one over an unnamed tributary of Blue House Swamp and the other over Blue House Swamp, an AASHTO (American

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Association of State Highway and Transportation Officials) Girder Bridge over the Norfolk Southern Railroad tract and a portion of Bluehouse Swamp and a Con/Span-type floorless arch culvert at the location of an existing bridge over the McChune Branch/Bluehouse Swamp canal.

To mitigate for the proposed project impacts, the applicant proposes the purchase of 46.4 restoration/enhancement mitigation credits from the Pigeon Pond Mitigation Bank and 46.35 preservation credits from the Francis Biedler Forest Mitigation Bank.

According to the applicant, the overall project purpose is to increase public traffic safety by improving existing traffic congestion and connectivity in the North Charleston area. The proposed roadway segments are intended to compliment the recently completed Palmetto Commerce Parkway and further reduce the existing congestion on Ladson, Dorchester and Ashley Phosphate Roads.

NOTE: Plans depicting the work described in this notice are available and will be provided, upon receipt of a written request, to anyone that is interested in obtaining a copy of the plans for the specific project. The request must identify the project of interest by public notice number and a self-addressed stamped envelope must also be provided for mailing the drawings to you. Your request for drawings should be addressed to the

**U.S. Army Corps of Engineers  
ATTN: REGULATORY DIVISION  
69A Hagood Avenue  
Charleston, South Carolina 29403-5107.**

The District Engineer has concluded that the discharges associated with this project, both direct and indirect, should be reviewed by the South Carolina Department of Health and Environmental Control in accordance with provisions of Section 401 of the Clean Water Act. As such, this notice constitutes a request, on behalf of the applicant, for certification that this project will comply with applicable effluent limitations and water quality standards. The work shown on this application must also be certified as consistent with applicable provisions of the South Carolina Coastal Zone Management Act (15 CFR 930). The District Engineer will not process this application to a conclusion until such certifications are received. The applicant is hereby advised that supplemental information may be required by the State to facilitate the review. Persons wishing to comment or object to State certification must submit all comments in writing to the S.C. Department of Health and Environmental Control at the above address within thirty (30) days of the date of this notice.

This notice initiates the Essential Fish Habitat (EFH) consultation requirements of the Magnuson-Stevens Fishery Conservation and Management Act. Implementation of the proposed project would impact ( ) acres of freshwater wetlands upstream from estuarine substrates and emergent wetlands utilized by various life stages of species comprising the red drum, shrimp, and snapper-grouper management complexes. Our initial determination is that the proposed action would not have a substantial individual or cumulative adverse impact on EFH or fisheries managed by the South Atlantic Fishery Management Council and the National Marine Fisheries Service (NMFS). Our final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

The District Engineer has consulted the most recently available information and has determined that the project will have no effect on any Federally endangered, threatened, or proposed species and will not result in the destruction or adverse modification of designated or proposed critical habitat. This public notice serves as a request to the U.S. Fish and Wildlife Service and the National Marine Fisheries Service for any additional information they may have on whether any listed or proposed endangered or threatened species or designated or proposed critical habitat may be present in the area which would be affected by the activity, pursuant to Section 7(c) of the Endangered Species Act of 1973 (as amended). Please note that the applicant has previously contacted the USFWS and this project area has been reviewed as FWS Log No. 42410-2009-TA-0077.

Pursuant to Section 106 of the National Historic Preservation Act (NHPA), this public notice also constitutes a request to Indian Tribes to notify the District Engineer of any historic properties of religious and cultural significance to them that may be affected by the proposed undertaking.

In accordance with the NHPA, the District Engineer has also consulted the latest published version of the National Register of Historic Places for the presence or absence of registered properties, or properties listed as being eligible for inclusion therein, and this worksite is not included as a registered property or property listed as being eligible for inclusion in the Register. To insure that other cultural resources that the District Engineer is not aware of are not overlooked, this public notice also serves as a request to the State Historic Preservation Office to provide any information it may have with regard to historic and cultural resources. Please note that the applicant has previously contacted the South Carolina Department of Archives and History and provided a draft report entitled "Cultural Resources Survey for Proposed Future Drive/Northside Drive Extension, and Oakridge Circle/Southeast Road Improvements, Charleston County", on behalf of Charleston County Roadwise which was received in their office on May 22, 2008.

Any person may request, in writing, within the comment period specified in this notice, that a public hearing be held to consider this application. Requests for a public hearing shall state, with particularity, the reasons for holding a public hearing.

The decision whether to issue a permit will be based on an evaluation of the probable impact including cumulative impacts of the activity on the public interest and will include application of the guidelines promulgated by the Administrator, Environmental Protection Agency (EPA), under authority of Section 404(b) of the Clean Water Act and, as appropriate, the criteria established under authority of Section 102 of the Marine Protection, Research and Sanctuaries Act of 1972, as amended. That decision will reflect the national concern for both protection and utilization of important resources. The benefit which reasonably may be expected to accrue from the project must be balanced against its reasonably foreseeable detriments. All factors which may be relevant to the project will be considered including the cumulative effects thereof; among those are conservation, economics, aesthetics, general environmental concerns, wetlands, historic properties, fish and wildlife values, flood hazards, flood plain values, land use, navigation, shoreline erosion and accretion, recreation, water supply and conservation, water quality, energy needs, safety, food and fiber production and, in general, the needs and welfare of the people. A permit will be granted unless the District Engineer determines that it would be contrary to the public interest. In cases of conflicting property rights, the Corps of Engineers cannot undertake to adjudicate rival claims.

The Corps of Engineers is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps of Engineers to determine whether to issue, modify, condition or deny a permit for this project. To make this decision, comments are used to assess impacts on endangered species, historic properties, water quality, general environmental effects, and the other public interest factors listed above. Comments are used in the preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity.

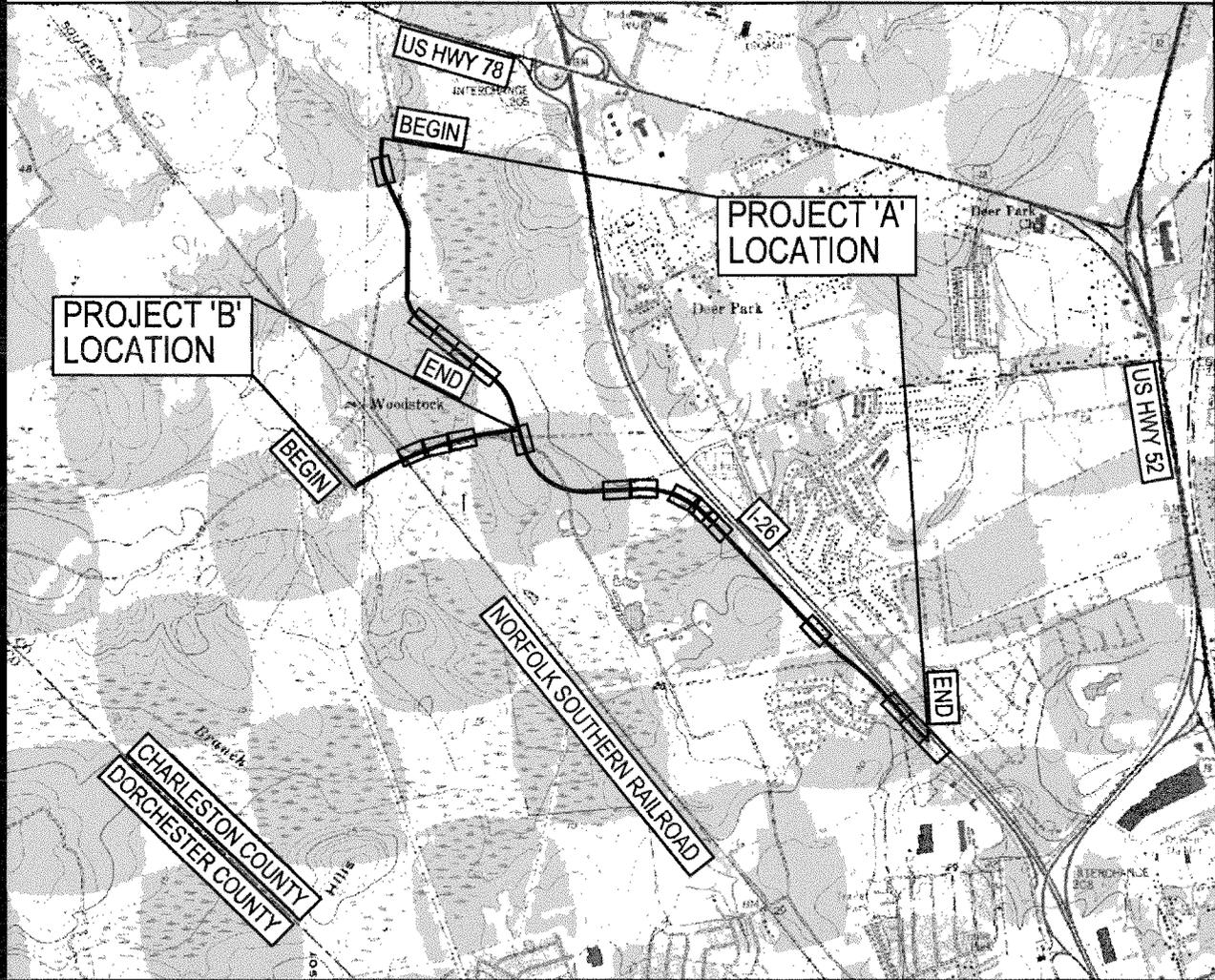
If there are any questions concerning this public notice, please contact Debbie King at 843-329-8044 or toll free at 1-866-329-8187.

# VICINITY MAP

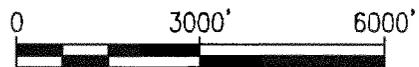
FROM: USGS QUAD MAP LADSON

APPROXIMATE LOCATION OF  
BEGINNING OF PROJECT 'A' IS:  
LATITUDE 32° 58' 33"  
LONGITUDE 80° 05' 15"

APPROXIMATE LOCATION OF  
BEGINNING OF PROJECT 'B' IS:  
LATITUDE 32° 57' 43"  
LONGITUDE 80° 04' 48"



SHADED AREA INDICATES  
COUNTY LOCATION IN SC



**SAC 2012-0068-1IW**

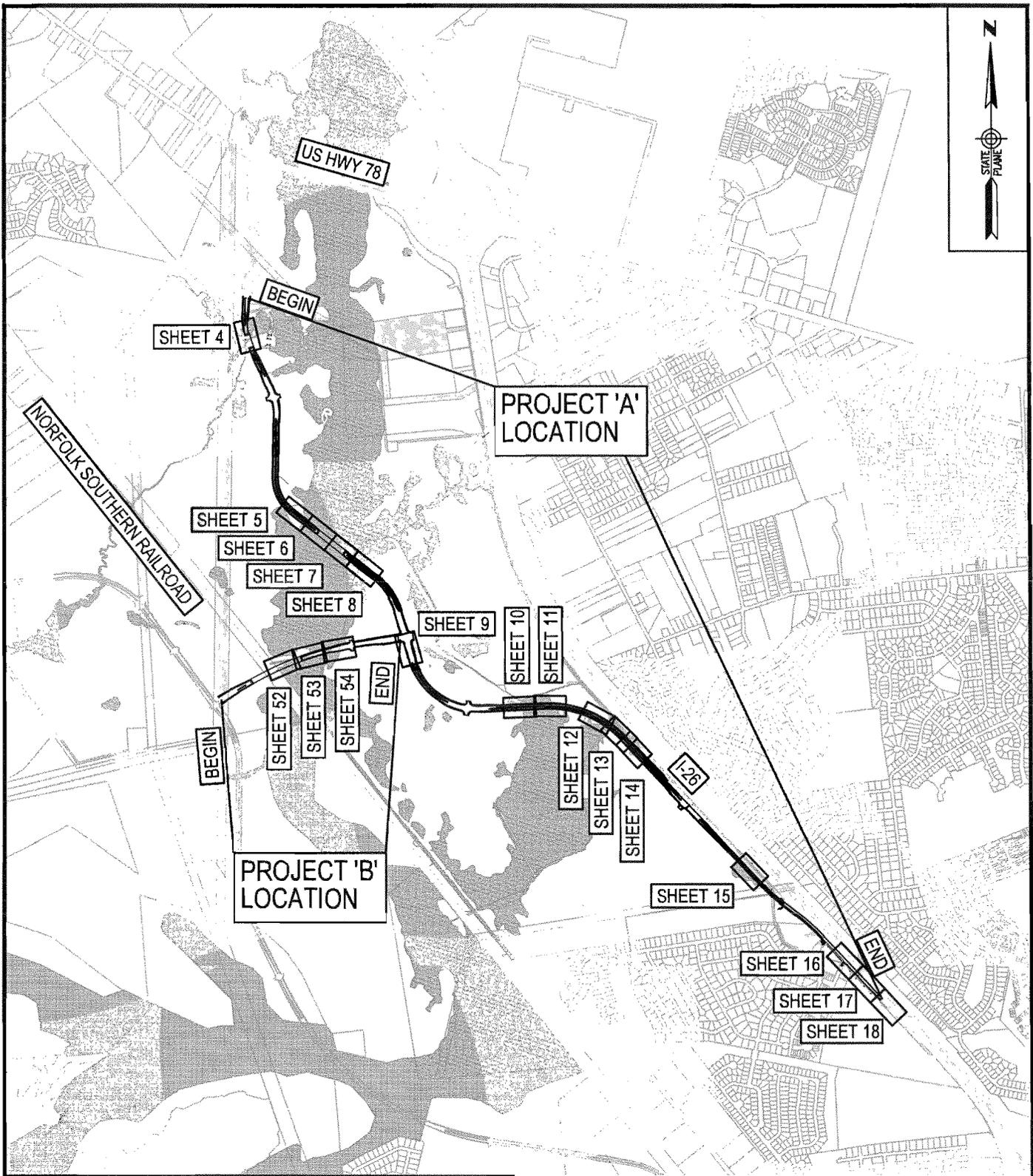
PROPOSED WETLAND IMPACTS  
NORTHSIDE & FUTURE DRIVE; DIVISIONS II & III  
CHARLESTON COUNTY, SC  
APPLICATION BY CITY OF NORTH CHARLESTON  
DECEMBER 2011  
SHEET 1 OF 59

## PROJECT SUMMARY OF WETLAND IMPACTS

IMPACT CATEGORY	AC	
<b>PROJECT 'A' - WETLAND IMPACT SUMMARY</b>		
Project 'A' Boundary Area (ac.)	79.973	
Jurisdictional Wetland Area within Project 'A' Boundary (ac.)	11.988	
Non-Jurisdictional Wetland Area within Project 'A' Boundary (ac.)	1.600	
Permanent Jurisdictional Wetland Impact within Project 'A' Boundary (ac.)	4.687	
Temporary Jurisdictional Wetland Impact within Project 'A' Boundary (ac.)	2.745	
Permanent Non-Jurisdictional Wetland Impact within Project 'A' Boundary (ac.)	0.825	
Temporary Non-Jurisdictional Wetland Impact within Project 'A' Boundary (ac.)	0.189	
<b>PROJECT 'B' - WETLAND IMPACT SUMMARY</b>		
Project 'B' Boundary Area (ac.)	14.143	
Jurisdictional Wetland Area within Project 'B' Boundary (ac.)	3.139	
Non-Jurisdictional Wetland Area within Project 'B' Boundary (ac.)	0.000	
Permanent Jurisdictional Wetland Impact within Project 'B' Boundary (ac.)	0.958	
Temporary Jurisdictional Wetland Impact within Project 'B' Boundary (ac.)	1.110	
Permanent Non-Jurisdictional Wetland Impact within Project 'B' Boundary (ac.)	0.000	
Temporary Non-Jurisdictional Wetland Impact within Project 'B' Boundary (ac.)	0.000	
<b>SAC 2012-0068-1IW</b>		
PREPARED BY: DAVIS & FLOYD, INC. CHARLESTON, SC	NORTHSIDE & FUTURE DRIVE; DIVISIONS II & III CHARLESTON COUNTY APPLICATION BY CITY OF NORTH CHARLESTON DECEMBER 2011	CITY OF NORTH CHARLESTON <hr/> WETLAND SUMMARY <hr/> Sht. 2-A OF 59

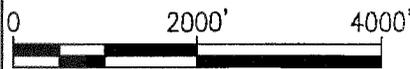
## INDIVIDUAL WETLAND IMPACT SUMMARY

WETLAND	SHEET #'S	FILL		CUT		CLEARING	
		SF	AC	SF	AC	SF	AC
<b>PROJECT 'A' - JURISDICTIONAL WETLAND IMPACTS</b>							
O	4	20,245	0.465	0.00	0.00	10,278	0.236
Q	5 - 8	69,295	1.591	0.00	0.00	80,511	1.848
MM	8	8,616	0.198	0.00	0.00	2,545	0.058
DD	10 - 12	87,409	2.007	0.00	0.00	18,057	0.415
PP	13	13,669	0.314	0.00	0.00	8,188	0.188
VW	16-18	4,931	0.113	0.00	0.00	0.00	0.000
<b>PROJECT 'A' SUBTOTAL:</b>			4.687		0.000		2.745
<b>PROJECT 'A' - NON-JURISDICTIONAL WETLAND IMPACTS</b>							
HH	9	4,103	0.094	0.00	0.00	1,034	0.024
NN	14	4,910	0.113	0.00	0.00	549	0.013
OO	15	26,919	0.618	0.00	0.00	6,661	0.153
<b>PROJECT 'A' SUBTOTAL:</b>			0.825		0.000		0.189
<b>PROJECT 'B' - JURISDICTIONAL WETLAND IMPACTS</b>							
Q	52-54	17,889	0.411	0.00	0.00	6,674	0.153
X	52-54	23,836	0.547	0.00	0.00	41,284	0.948
MM	54	22	0.001	0.00	0.000	388	0.009
<b>PROJECT 'B' SUBTOTAL:</b>			0.958		0.000		1.110
 <b>SAC 2012-0068-1IW</b> 							
PREPARED BY: DAVIS & FLOYD, INC. CHARLESTON, SC		NORTHSIDE & FUTURE DRIVE; DIVISIONS II & III CHARLESTON COUNTY APPLICATION BY CITY OF NORTH CHARLESTON DECEMBER 2011				CITY OF NORTH CHARLESTON WETLAND SUMMARY Sht. 2-B OF 59	



**SAC 2012-0068-1W**

PREPARED BY:  
DAVIS & FLOYD, INC.  
CHARLESTON, SC

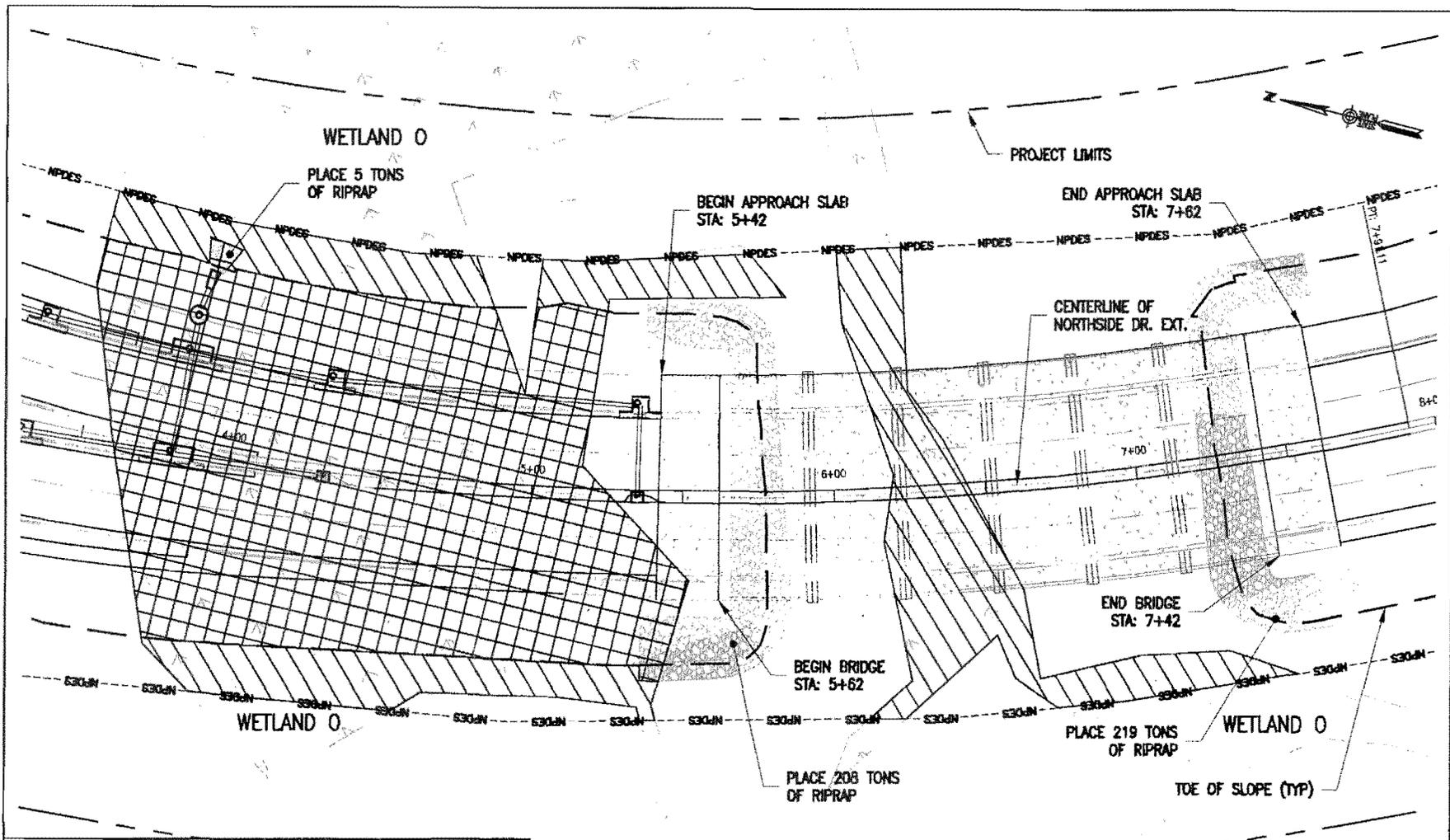


NORTHSIDE & FUTURE DRIVE; DIVISIONS II & III  
CHARLESTON COUNTY  
APPLICATION BY CITY OF NORTH CHARLESTON  
DECEMBER 2011



SHEET INDEX

Sht. 3 OF 59

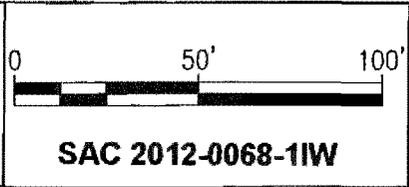


**WETLAND O TOTAL IMPACTS (JURISDICTIONAL)**  
 PERMANENT FILL IMPACT = 20,245 SF (0.465 AC)  
 PERMANENT CUT IMPACT = 0.00 SF (0.000 AC)  
 MECHANICAL CLEARING IMPACT = 10,278 SF (0.236 AC)

SEE SHEETS 19 - 21 FOR CROSS SECTIONS

PREPARED BY:  
 DAVIS &  
 FLOYD, INC.  
 CHARLESTON, SC

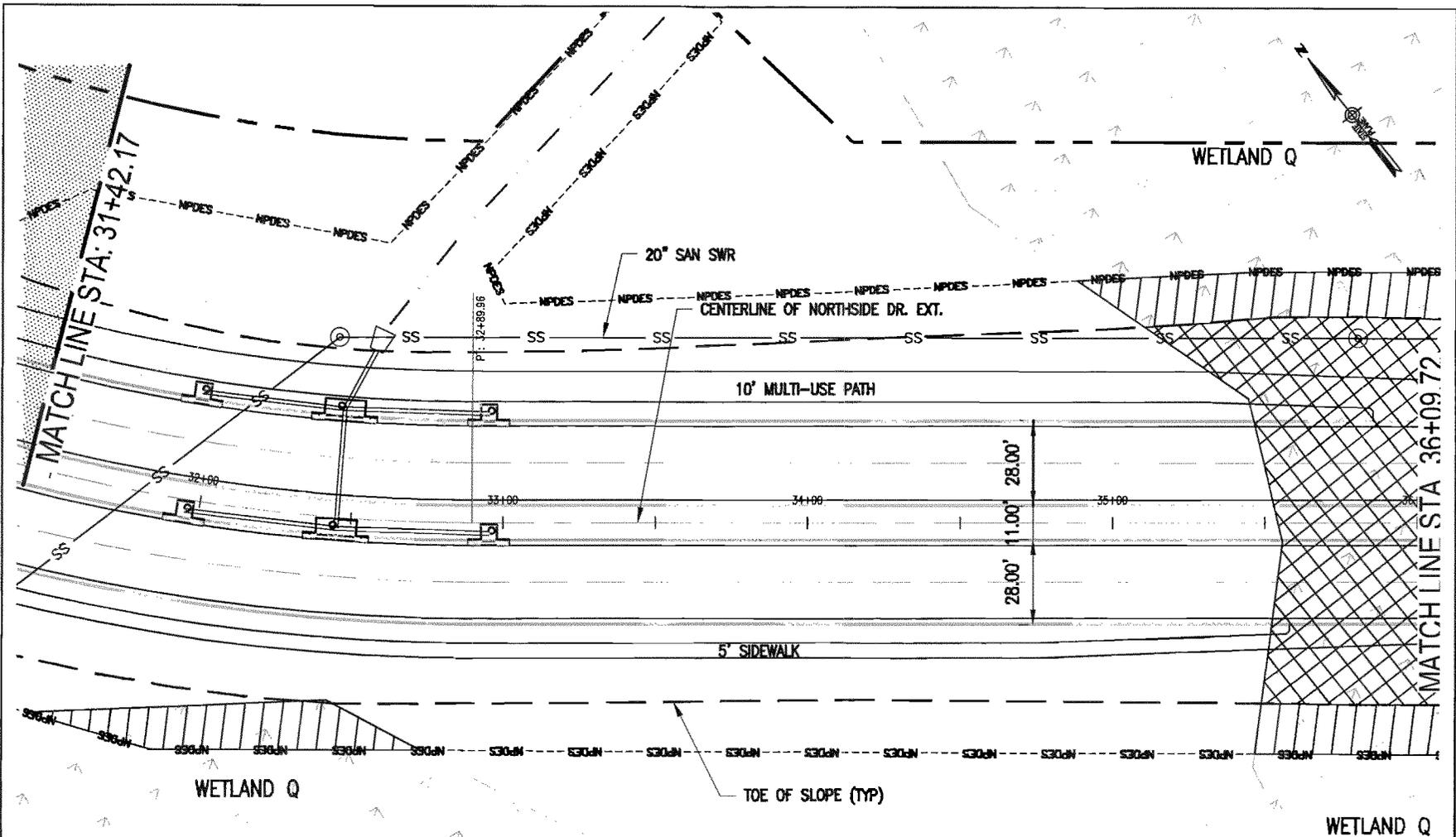
LEGEND	
	PERMANENT WETLAND IMPACT (FILL/CUT)
	MECHANICAL CLEARING IMPACT



PROJECT 'A'  
 NORTHSIDE & FUTURE DRIVE DIVISION II  
 NORTHSIDE DRIVE EXTENSION  
 CITY OF NORTH CHARLESTON  
 DECEMBER 2011



WETLAND O  
 SHEET 4 OF 59



WETLAND Q TOTAL IMPACTS (JURISDICTIONAL)  
 PERMANENT FILL IMPACT = 69,295 SF (1.591 AC)  
 PERMANENT CUT IMPACT = 0.00 SF (0.00 AC)  
 MECHANICAL CLEARING IMPACT = 80,511 SF (1.848 AC)

SEE SHEETS 22 - 28 FOR CROSS SECTIONS

PREPARED BY:  
 DAVIS &  
 FLOYD, INC.  
 CHARLESTON, SC

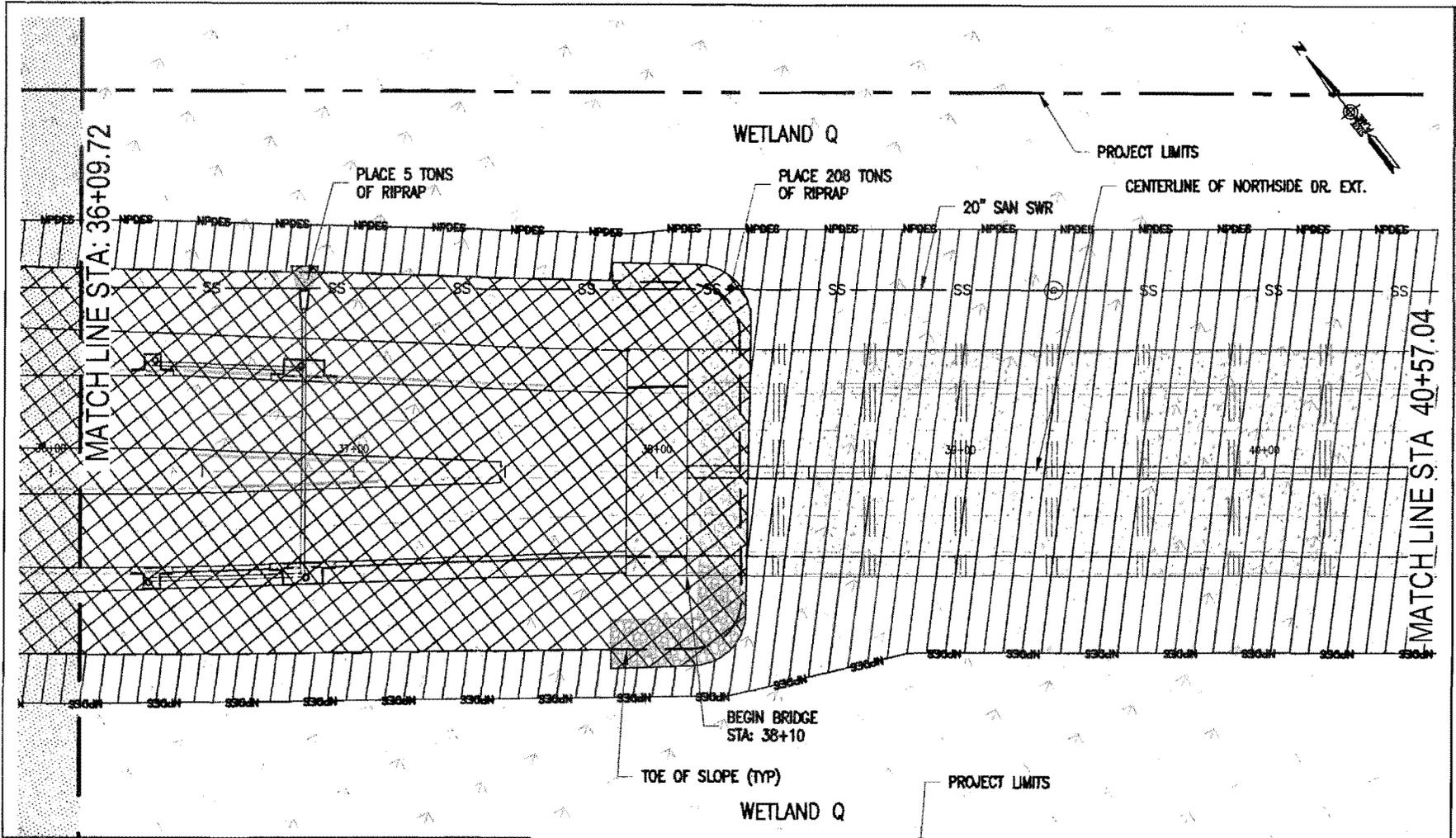
LEGEND	
	PERMANENT WETLAND IMPACT (FILL/CUT)
	MECHANICAL CLEARING IMPACT

0 50' 100'

**SAC 2012-0068-1IW**

PROJECT 'A'  
 NORTHSIDE & FUTURE DRIVE DIVISION II  
 NORTHSIDE DRIVE EXTENSION  
 CITY OF NORTH CHARLESTON  
 DECEMBER 2011

WETLAND Q  
 SHEET 5 OF 59

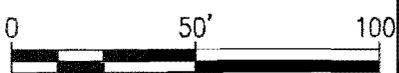


SEE SHEET 5  
FOR CUT AND FILL  
IMPACT AREAS

SEE SHEETS 22 - 28 FOR CROSS SECTIONS

PREPARED BY:  
DAVIS &  
FLOYD, INC.  
CHARLESTON, SC

**LEGEND**  
 PERMANENT WETLAND IMPACT (FILL/CUT)  
 MECHANICAL CLEARING IMPACT



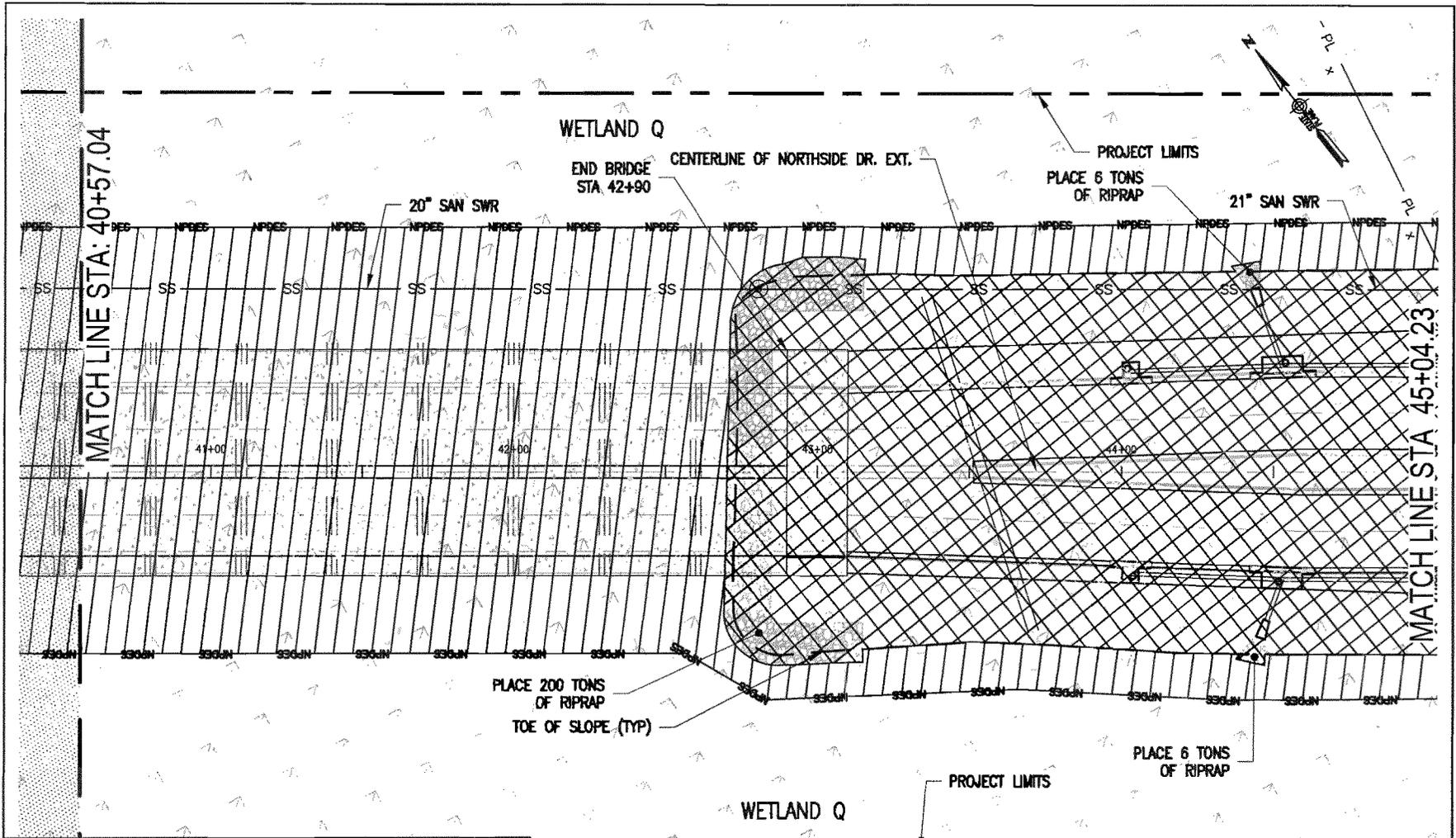
**SAC 2012-0068-1IW**

PROJECT 'A'  
NORTHSIDE & FUTURE DRIVE DIVISION II  
NORTHSIDE DRIVE EXTENSION

CITY OF NORTH CHARLESTON  
DECEMBER 2011



WETLAND Q  
SHEET 6 OF 59



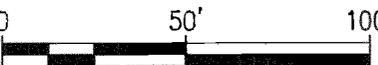
SEE SHEET 5  
CUT AND FILL  
IMPACT AREAS

SEE SHEETS 22 - 28 FOR CROSS SECTIONS

PREPARED BY:  
DAVIS &  
FLOYD, INC.  
CHARLESTON, SC

LEGEND	
	PERMANENT WETLAND IMPACT (FILL/CUT)
	MECHANICAL CLEARING IMPACT

0 50' 100'



**SAC 2012-0068-1IW**

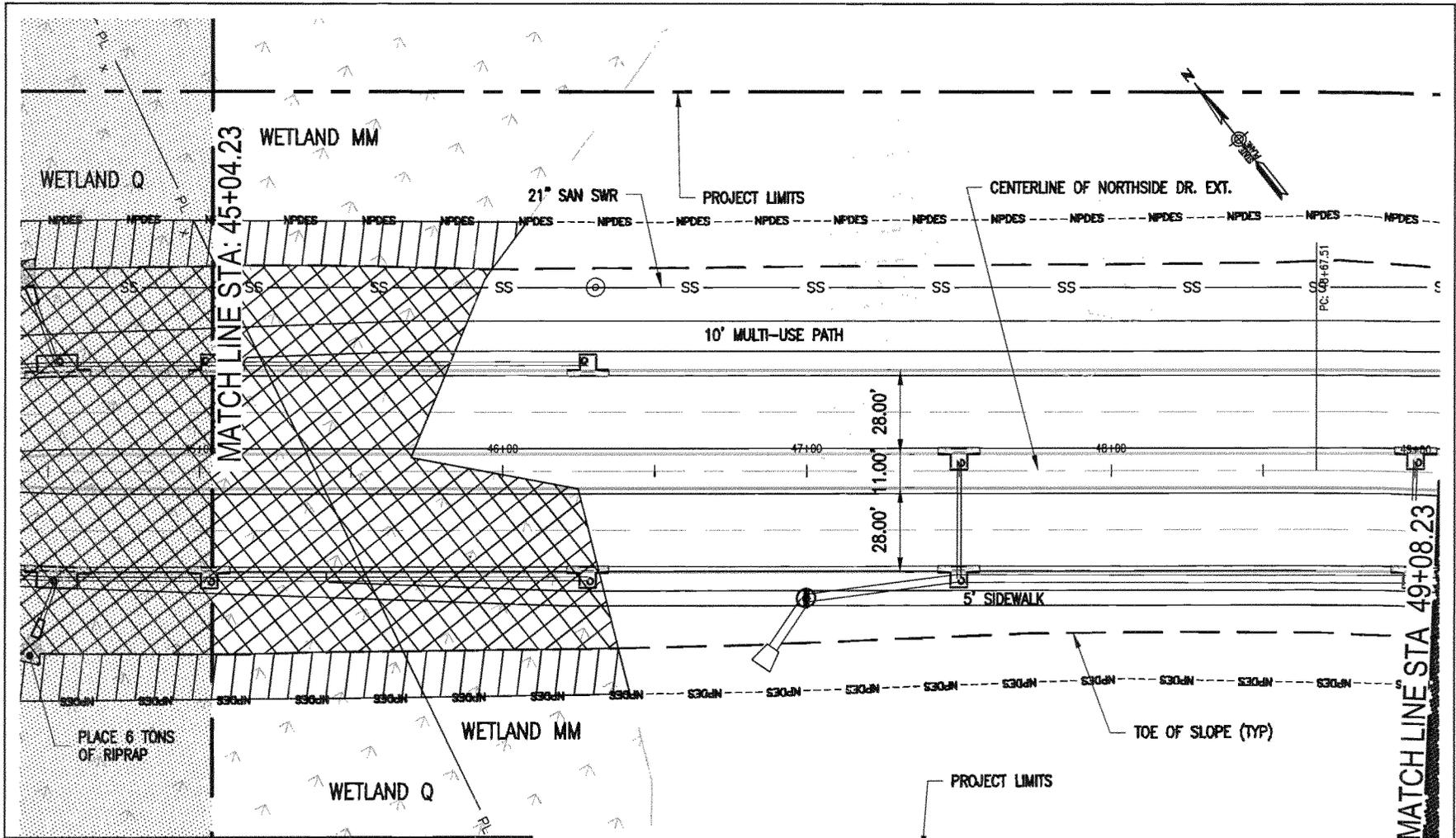
PROJECT 'A'  
NORTHSIDE & FUTURE DRIVE DIVISION II  
NORTHSIDE DRIVE EXTENSION

CITY OF NORTH CHARLESTON  
DECEMBER 2011



WETLAND Q

SHEET 7 OF 59



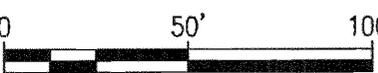
WETLAND MM TOTAL IMPACTS (JURISDICTIONAL)  
 PERMANENT FILL IMPACT = 8,616 SF (0.198 AC)  
 PERMANENT CUT IMPACT = 0.00 SF (0.00 AC)  
 MECHANICAL CLEARING IMPACT = 2,545 SF (0.058 AC)

SEE SHEETS 22 - 29 FOR CROSS SECTION

PREPARED BY:  
 DAVIS &  
 FLOYD, INC.  
 CHARLESTON, SC

LEGEND	
	PERMANENT WETLAND IMPACT (FILL/CUT)
	MECHANICAL CLEARING IMPACT

0 50' 100'

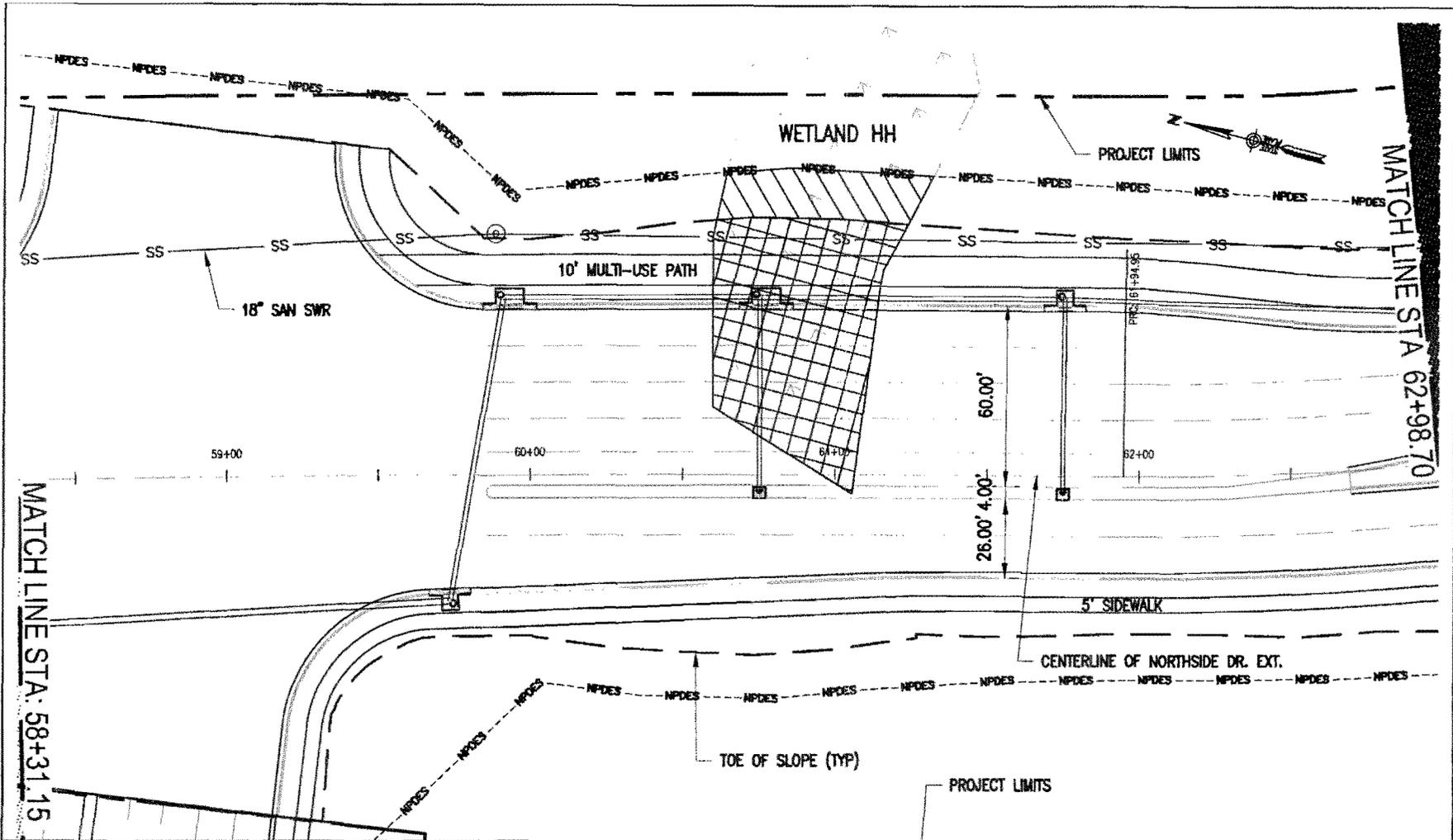


**SAC 2012-0068-1IW**

PROJECT 'A'  
 NORTHSIDE & FUTURE DRIVE DIVISION II  
 NORTHSIDE DRIVE EXTENSION  
 CITY OF NORTH CHARLESTON  
 DECEMBER 2011



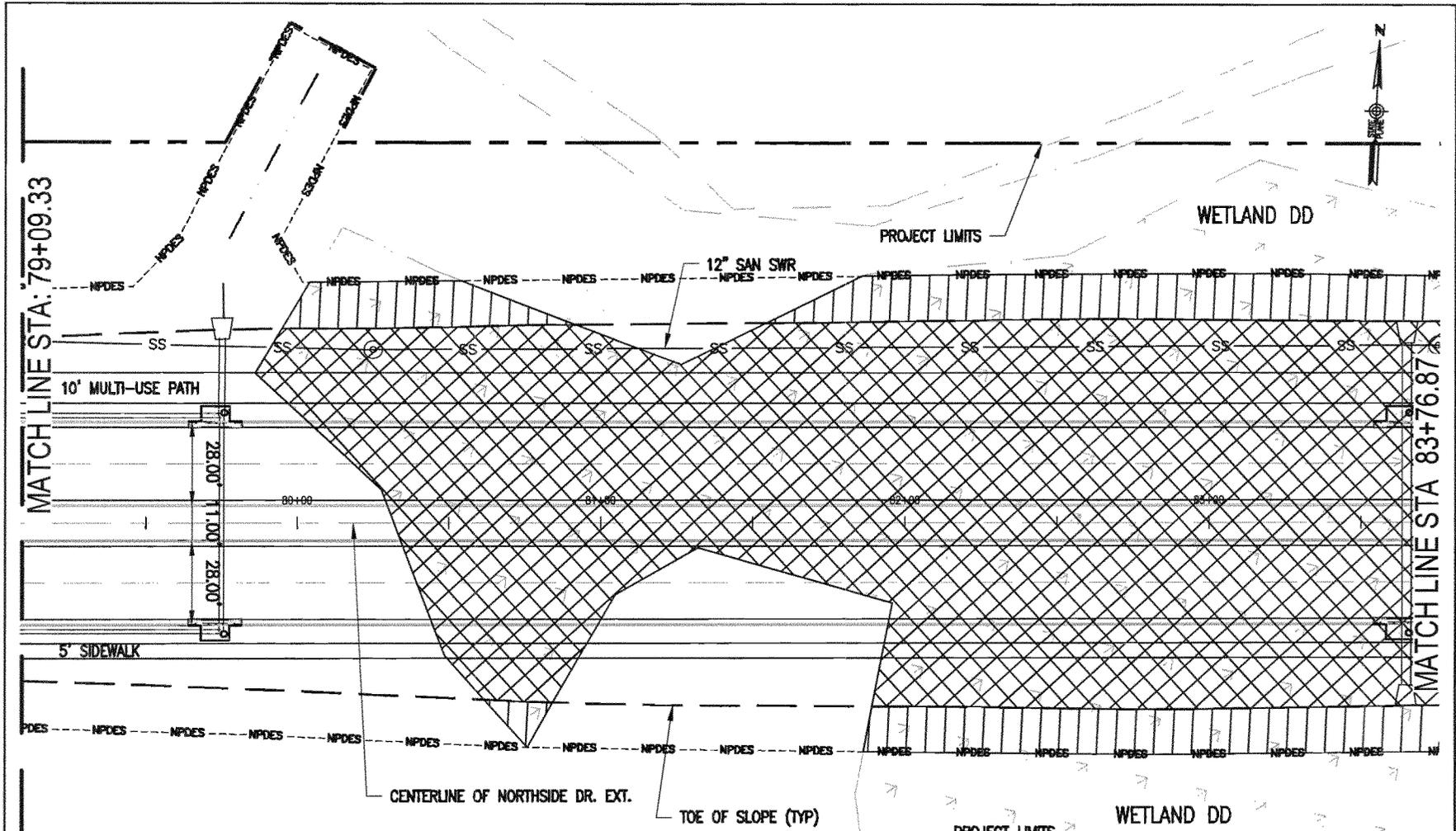
WETLAND Q & MM  
 SHEET 8 OF 59



**WETLAND HH TOTAL IMPACTS (NON-JURISDICTIONAL)**  
 PERMANENT FILL IMPACT = 4,103 SF (0.094 AC)  
 PERMANENT CUT IMPACT = 0.00 SF (0.00 AC)  
 MECHANICAL CLEARING IMPACT = 1,034 SF (0.024 AC)

SEE SHEET 30 FOR CROSS SECTIONS

PREPARED BY: DAVIS & FLOYD, INC. CHARLESTON, SC	<b>LEGEND</b> PERMANENT WETLAND IMPACT (FILL/CUT) MECHANICAL CLEARING IMPACT	<p><b>SAC 2012-0068-1IW</b></p>	<b>PROJECT 'A'</b> NORTHSIDE & FUTURE DRIVE DIVISION II NORTHSIDE DRIVE EXTENSION  CITY OF NORTH CHARLESTON DECEMBER 2011	 WETLAND HH SHEET 9 OF 59
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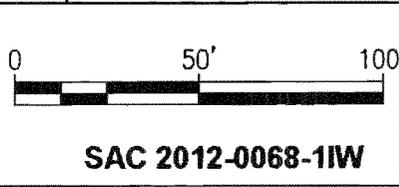


WETLAND DD TOTAL IMPACTS (JURISDICTIONAL)  
 PERMANENT FILL IMPACT = 87,409 SF (2.007 AC)  
 PERMANENT CUT IMPACT = 0.00 SF (0.00 AC)  
 MECHANICAL CLEARING IMPACT = 18,057 SF (0.415 AC)

SEE SHEETS 31 - 38 FOR CROSS SECTIONS

PREPARED BY:  
 DAVIS &  
 FLOYD, INC.  
 CHARLESTON, SC

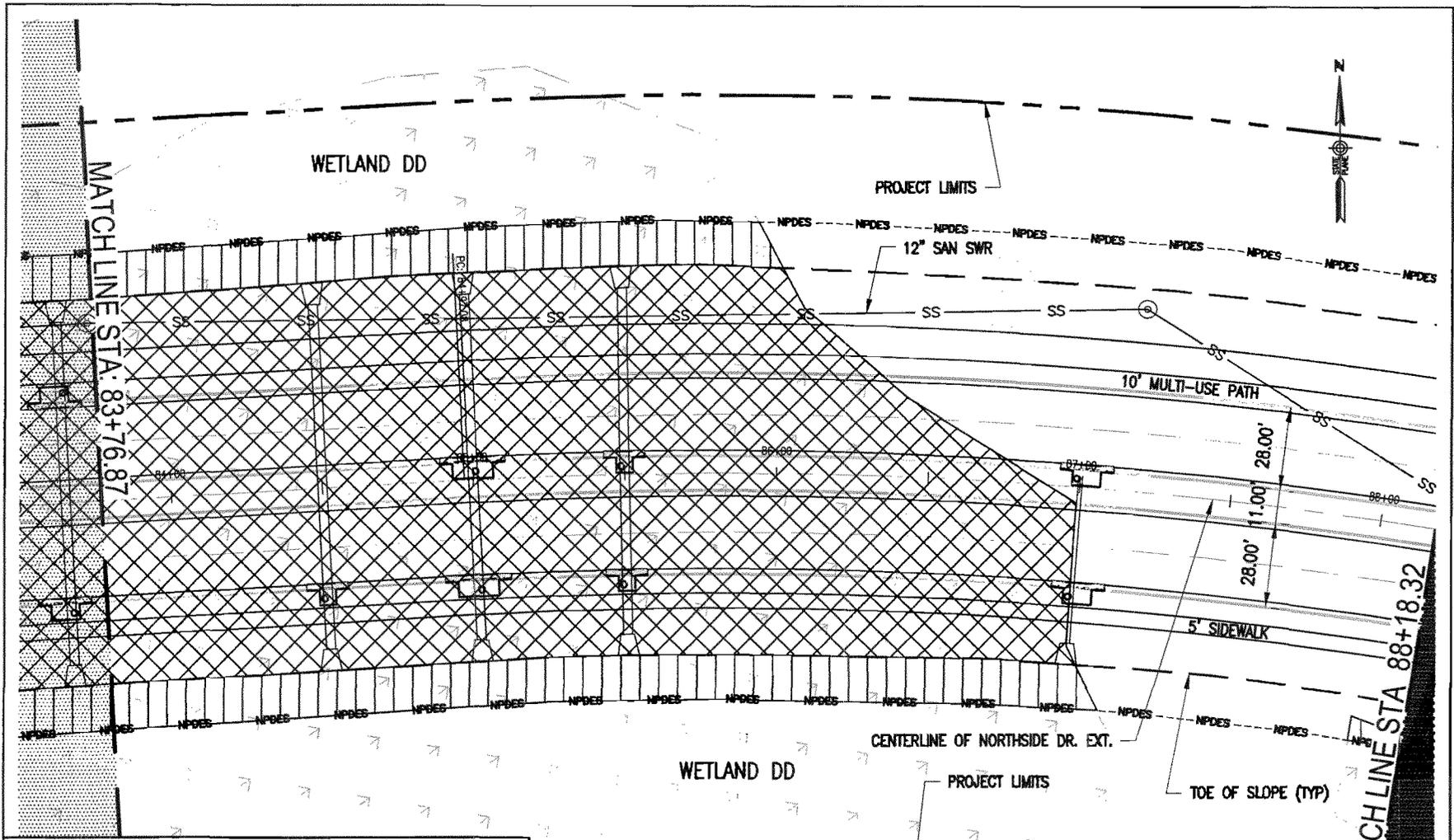
LEGEND	
	PERMANENT WETLAND IMPACT (FILL/CUT)
	MECHANICAL CLEARING IMPACT



**PROJECT 'A'**  
 NORTHSIDE & FUTURE DRIVE DIVISION II  
 NORTHSIDE DRIVE EXTENSION  
 CITY OF NORTH CHARLESTON  
 DECEMBER 2011



**WETLAND DD**  
 SHEET 10 OF 59

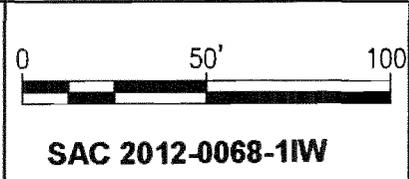


SEE SHEET 10  
FOR CUT AND FILL  
IMPACT AREAS

SEE SHEETS 31 - 38 FOR CROSS SECTIONS

PREPARED BY:  
DAVIS &  
FLOYD, INC.  
CHARLESTON, SC

LEGEND	
	PERMANENT WETLAND IMPACT (FILL/CUT)
	MECHANICAL CLEARING IMPACT



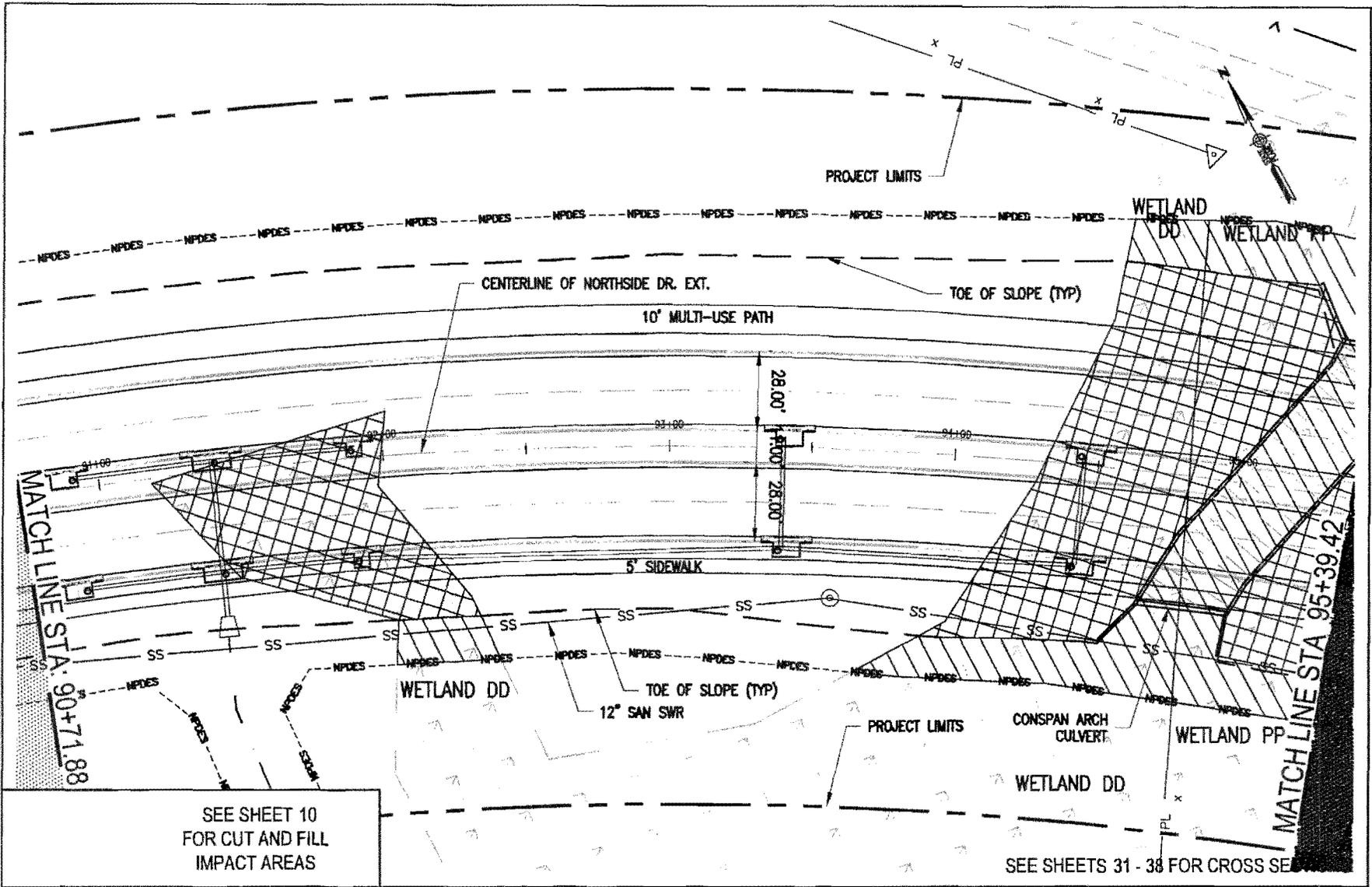
**PROJECT 'A'**  
NORTHSIDE & FUTURE DRIVE DIVISION II  
NORTHSIDE DRIVE EXTENSION

CITY OF NORTH CHARLESTON  
DECEMBER 2011



WETLAND DD

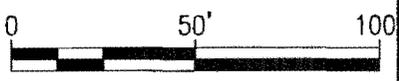
SHEET 11 OF 59



PREPARED BY:  
DAVIS &  
FLOYD, INC.  
CHARLESTON, SC

LEGEND	
	PERMANENT WETLAND IMPACT (FILL/CUT)
	MECHANICAL CLEARING IMPACT

0 50' 100'



**SAC 2012-0068-1IW**

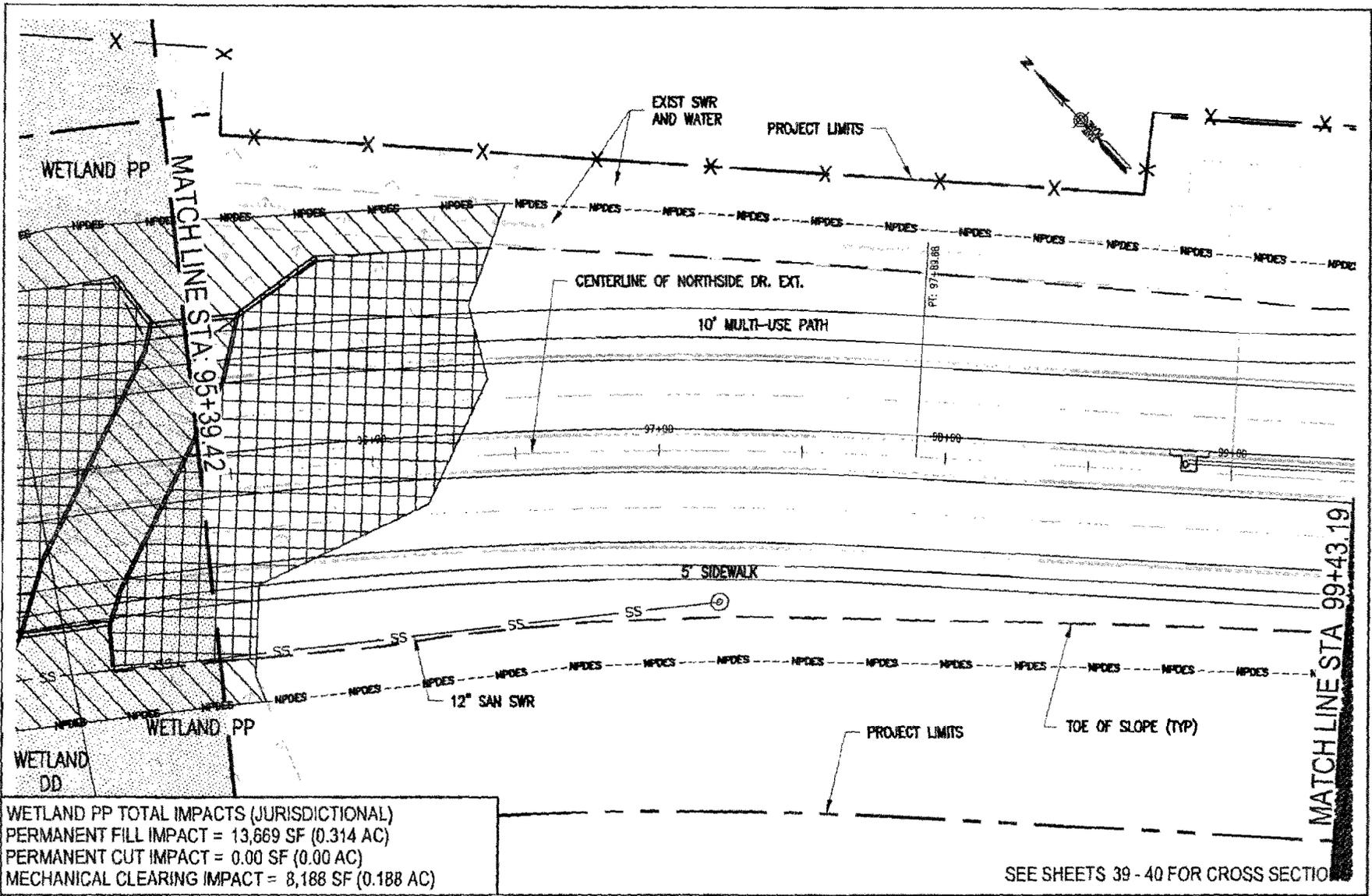
PROJECT 'A'  
NORTHSIDE & FUTURE DRIVE DIVISION II  
NORTHSIDE DRIVE EXTENSION

CITY OF NORTH CHARLESTON  
DECEMBER 2011



WETLAND DD

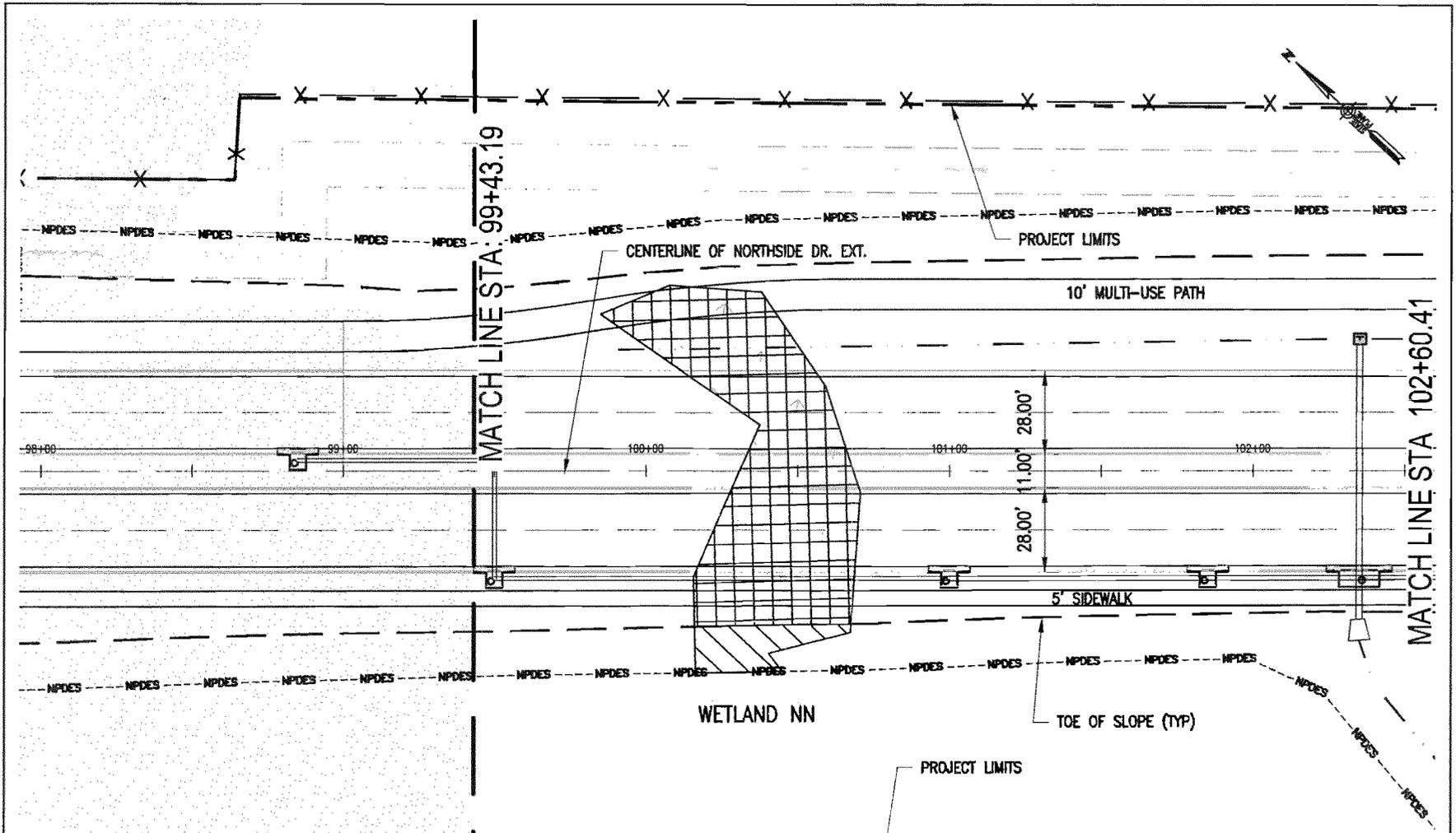
SHEET 12 OF 59



**WETLAND PP TOTAL IMPACTS (JURISDICTIONAL)**  
 PERMANENT FILL IMPACT = 13,669 SF (0.314 AC)  
 PERMANENT CUT IMPACT = 0.00 SF (0.00 AC)  
 MECHANICAL CLEARING IMPACT = 8,188 SF (0.188 AC)

SEE SHEETS 39 - 40 FOR CROSS SECTION

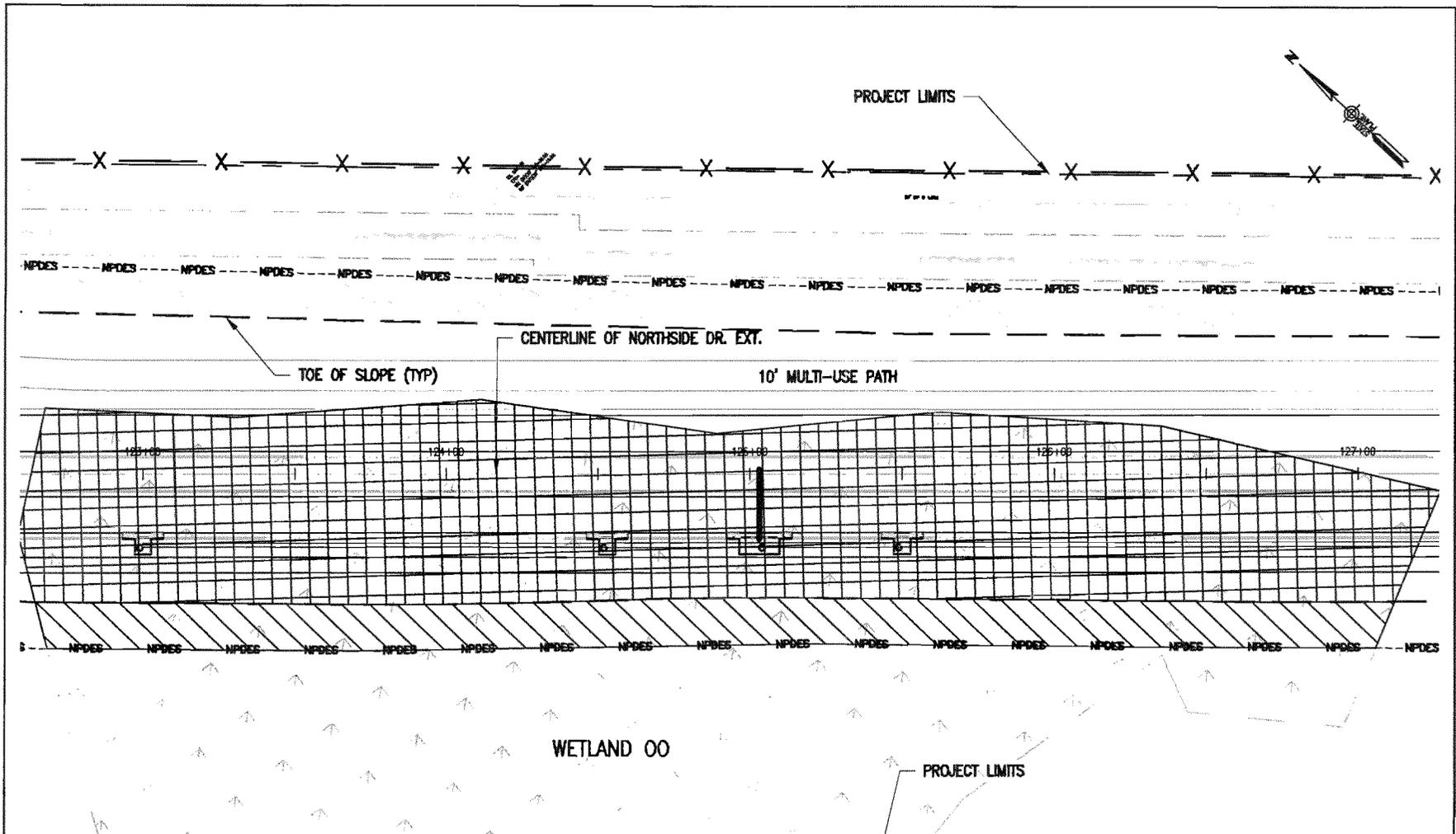
PREPARED BY: DAVIS & FLOYD, INC. CHARLESTON, SC	<b>LEGEND</b> PERMANENT WETLAND IMPACT (FILL/CUT) MECHANICAL CLEARING IMPACT	 <b>SAC 2012-0068-1IW</b>	<b>PROJECT 'A'</b> NORTHSIDE & FUTURE DRIVE DIVISION II NORTHSIDE DRIVE EXTENSION	 WETLAND PP SHEET 13 OF 59
			CITY OF NORTH CHARLESTON DECEMBER 2011	



WETLAND NN TOTAL IMPACTS (NON-JURISDICTIONAL)  
 PERMANENT FILL IMPACT = 4,910 SF (0.113 AC)  
 PERMANENT CUT IMPACT = 0.00 SF (0.00 AC)  
 MECHANICAL CLEARING IMPACT = 549 SF (0.013 AC)

SEE SHEET 41 FOR CROSS SECTIONS

PREPARED BY: DAVIS & FLOYD, INC. CHARLESTON, SC	<b>LEGEND</b> PERMANENT WETLAND IMPACT (FILL/CUT) MECHANICAL CLEARING IMPACT	 <b>SAC 2012-0068-1IW</b>	PROJECT 'A' NORTHSIDE & FUTURE DRIVE DIVISION II NORTHSIDE DRIVE EXTENSION	 WETLAND NN SHEET 14 OF 59
			CITY OF NORTH CHARLESTON DECEMBER 2011	

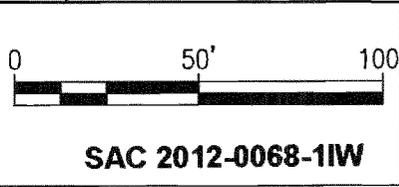


WETLAND 00 TOTAL IMPACTS (NON-JURISDICTIONAL)  
 PERMANENT FILL IMPACT = 26,919 SF (0.618 AC)  
 PERMANENT CUT IMPACT = 0.00 SF (0.00 AC)  
 MECHANICAL CLEARING IMPACT = 6,661 SF (0.153 AC)

SEE SHEETS 42 - 44 FOR CROSS SECTIONS

PREPARED BY:  
 DAVIS &  
 FLOYD, INC.  
 CHARLESTON, SC

LEGEND	
	PERMANENT WETLAND IMPACT (FILL/CUT)
	MECHANICAL CLEARING IMPACT



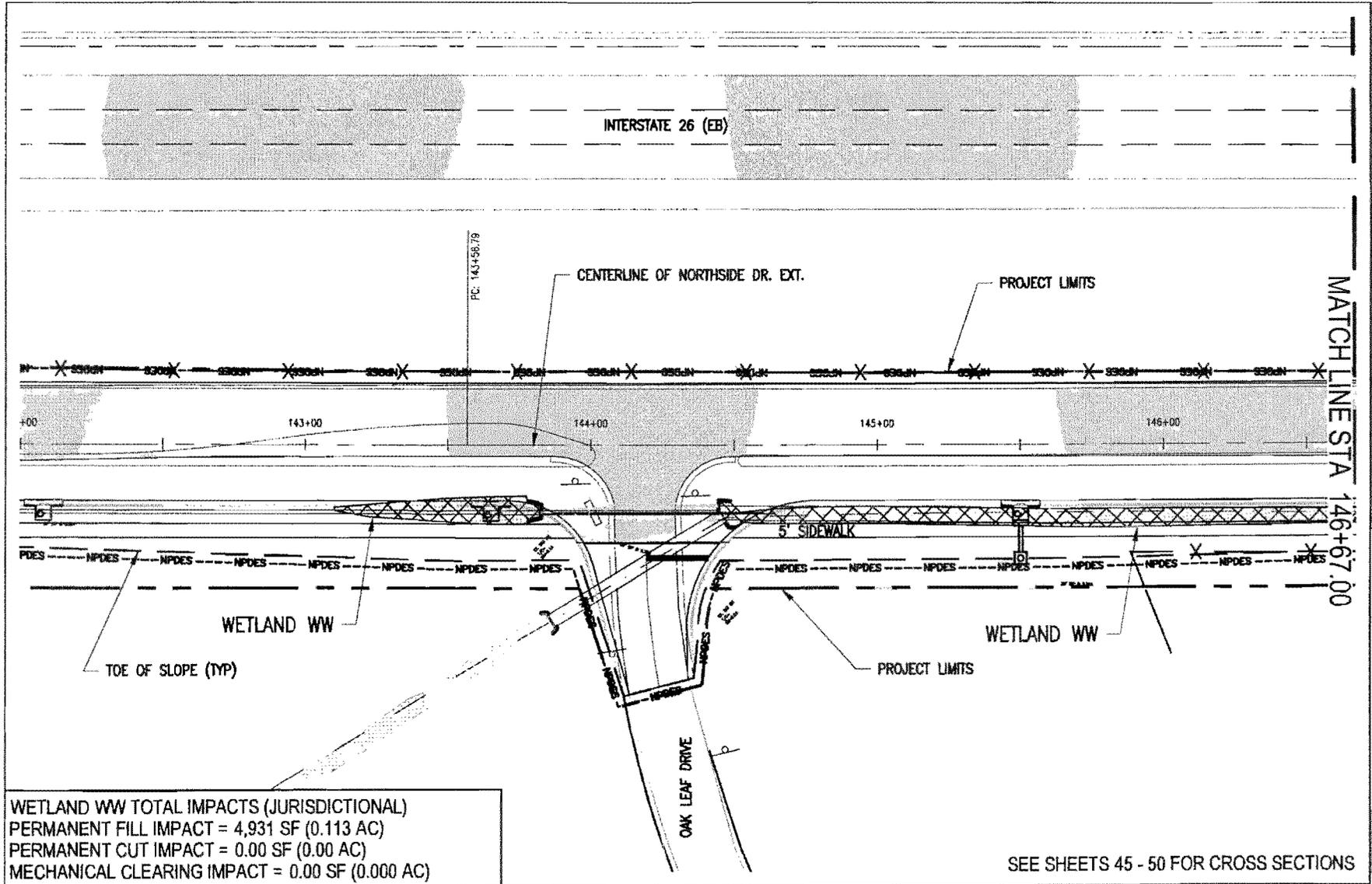
PROJECT 'A'  
 NORTHSIDE & FUTURE DRIVE DIVISION II  
 NORTHSIDE DRIVE EXTENSION

CITY OF NORTH CHARLESTON  
 DECEMBER 2011



WETLAND 00

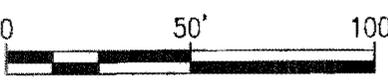
SHEET 15 OF 59



MATCH LINE STA 146+67.00

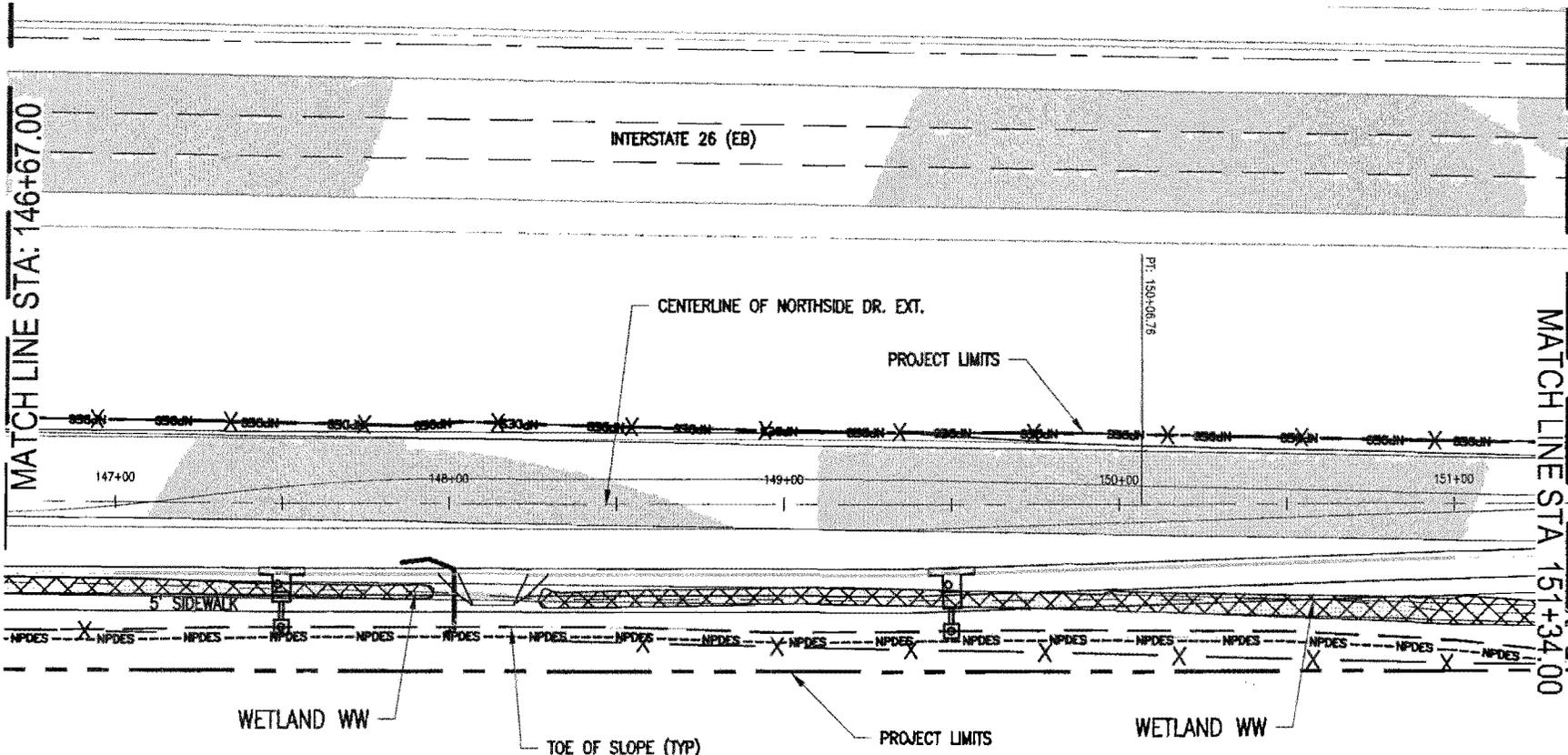
WETLAND WW TOTAL IMPACTS (JURISDICTIONAL)  
 PERMANENT FILL IMPACT = 4,931 SF (0.113 AC)  
 PERMANENT CUT IMPACT = 0.00 SF (0.00 AC)  
 MECHANICAL CLEARING IMPACT = 0.00 SF (0.000 AC)

SEE SHEETS 45 - 50 FOR CROSS SECTIONS

PREPARED BY: DAVIS & FLOYD, INC. CHARLESTON, SC	<b>LEGEND</b>  PERMANENT WETLAND IMPACT (FILL/CUT)  MECHANICAL CLEARING IMPACT	 <b>SAC 2012-0068-1IW</b>	PROJECT 'A' NORTHSIDE & FUTURE DRIVE DIVISION II NORTHSIDE DRIVE EXTENSION	 WETLAND WW SHEET 16 OF 59
			CITY OF NORTH CHARLESTON DECEMBER 2011	

MATCH LINE STA: 146+67.00

MATCH LINE STA: 151+34.00

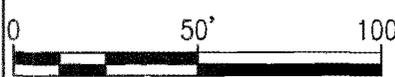


SEE SHEET 16  
FOR CUT AND FILL  
IMPACT AREAS

SEE SHEETS 45 - 50 FOR CROSS SECTIONS

PREPARED BY:  
DAVIS &  
FLOYD, INC.  
CHARLESTON, SC

**LEGEND**  
 PERMANENT WETLAND  
IMPACT (FILL/CUT)  
 MECHANICAL CLEARING  
IMPACT



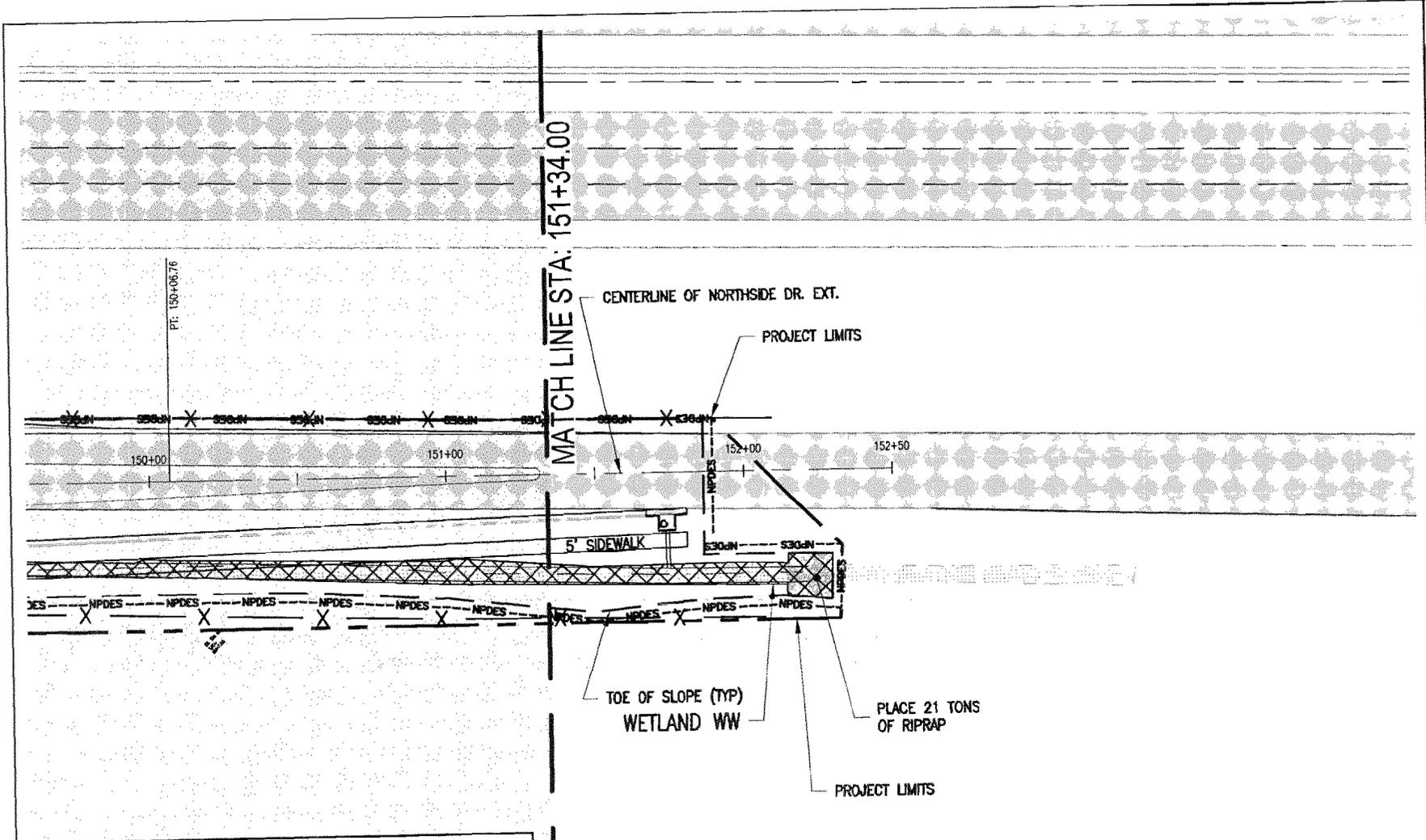
**SAC 2012-0068-1IW**

PROJECT 'A'  
NORTHSIDE & FUTURE DRIVE DIVISION II  
NORTHSIDE DRIVE EXTENSION

CITY OF NORTH CHARLESTON  
DECEMBER 2011

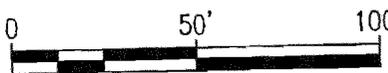


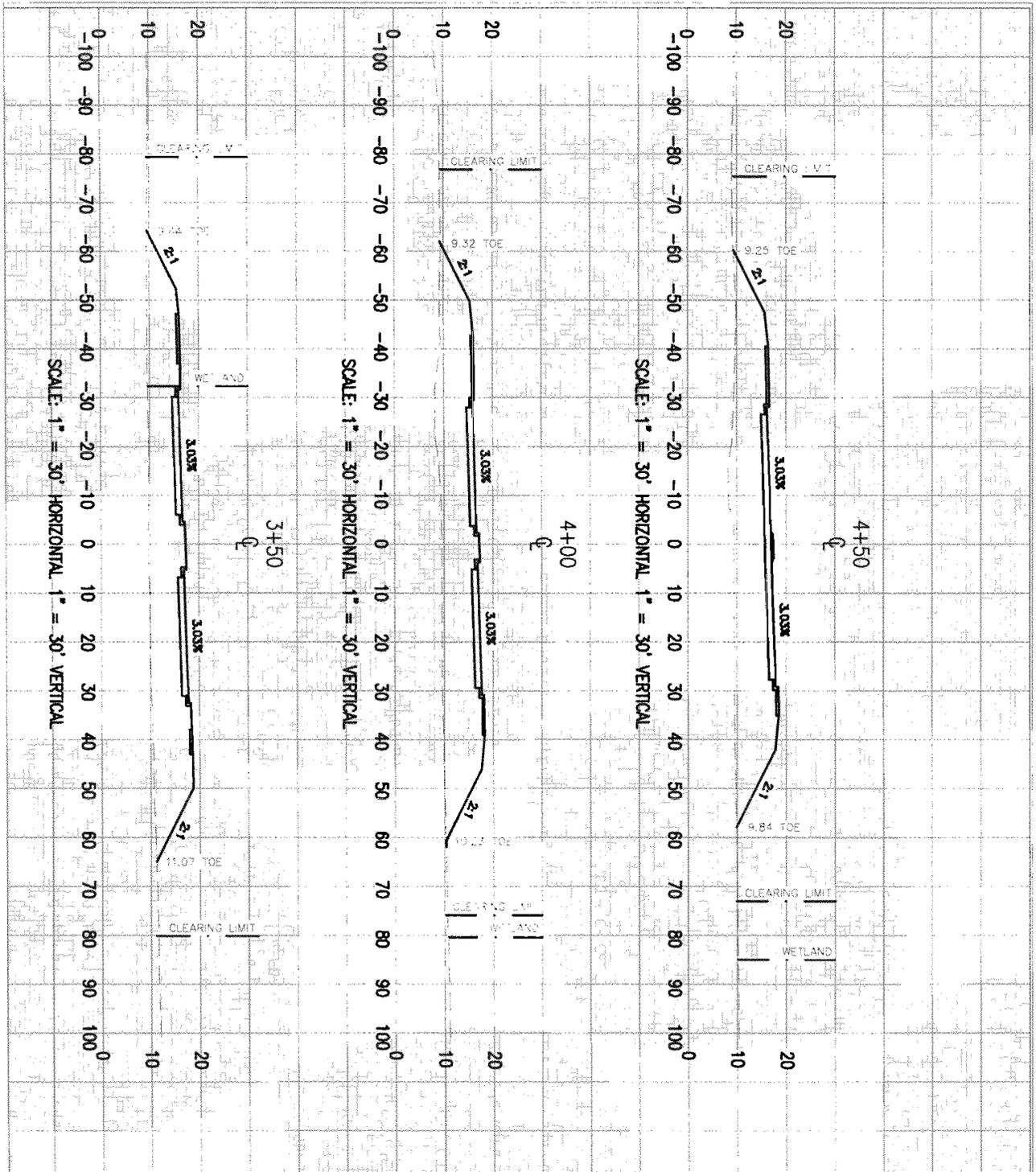
WETLAND WW  
SHEET 17 OF 59



SEE SHEET 16  
FOR CUT AND FILL  
IMPACT AREAS

SEE SHEETS 45 - 50 FOR CROSS SECTIONS

PREPARED BY: DAVIS & FLOYD, INC. CHARLESTON, SC	<b>LEGEND</b>  PERMANENT WETLAND IMPACT (FILL/CUT)  MECHANICAL CLEARING IMPACT	 0      50'      100' <b>SAC 2012-0068-1IW</b>	PROJECT 'A' NORTHSIDE & FUTURE DRIVE DIVISION II NORTHSIDE DRIVE EXTENSION	 WETLAND WW SHEET 18 OF 59
			CITY OF NORTH CHARLESTON DECEMBER 2011	



**SAC 2012-0068-1IW**

PROJECT 'A'  
 NORTHSIDE & FUTURE DRIVE DIVISION II  
 NORTHSIDE DRIVE EXTENSION

CITY OF NORTH CHARLESTON  
 DECEMBER 2011

VOLUMES

0 CU. YDS. CUT  
 4,894 CU. YDS. FILL

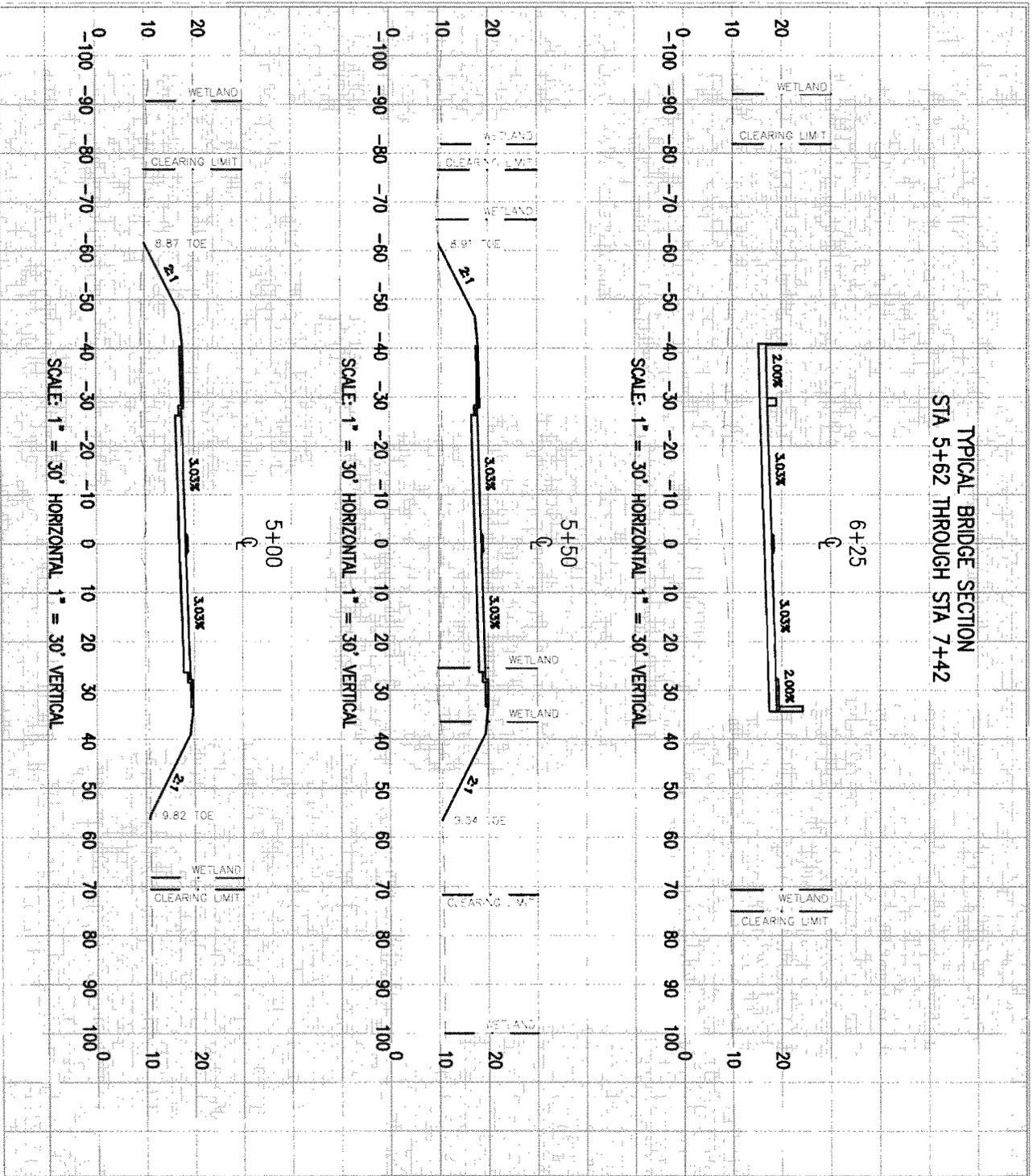
PREPARED BY:  
 DAVIS &  
 FLOYD, INC.  
 CHARLESTON, SC



WETLAND 0

SHEET 19 OF 59

SCALE AS NOTED



**SAC 2012-0068-1IW**

	PROJECT 'A' NORTHSIDE & FUTURE DRIVE DIVISION II NORTHSIDE DRIVE EXTENSION	VOLUMES  SEE SHEET 19	PREPARED BY: DAVIS & FLOYD, INC. CHARLESTON, SC
	CITY OF NORTH CHARLESTON DECEMBER 2011		

WETLAND 0  
 SHEET 20 OF 59  
 SCALE AS NOTED

PREPARED BY:  
DAVIS &  
FLOYD, INC.  
CHARLESTON, SC

VOLUMES  
SEE SHEET 19

PROJECT A:  
NORTHSIDE & FUTURE DRIVE DIVISION II  
NORTHSIDE DRIVE EXTENSION  
CITY OF NORTH CHARLESTON  
DECEMBER 2011

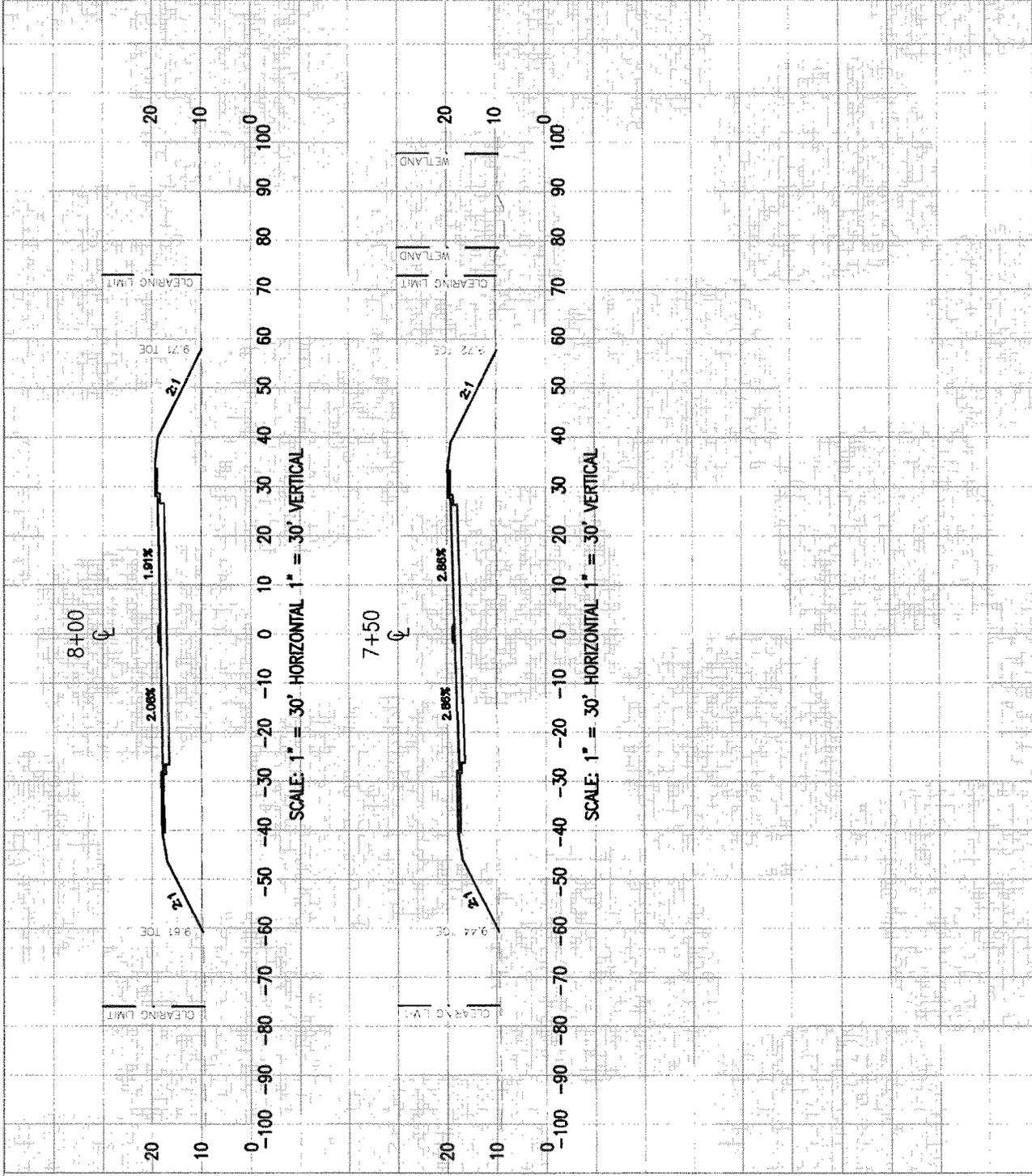


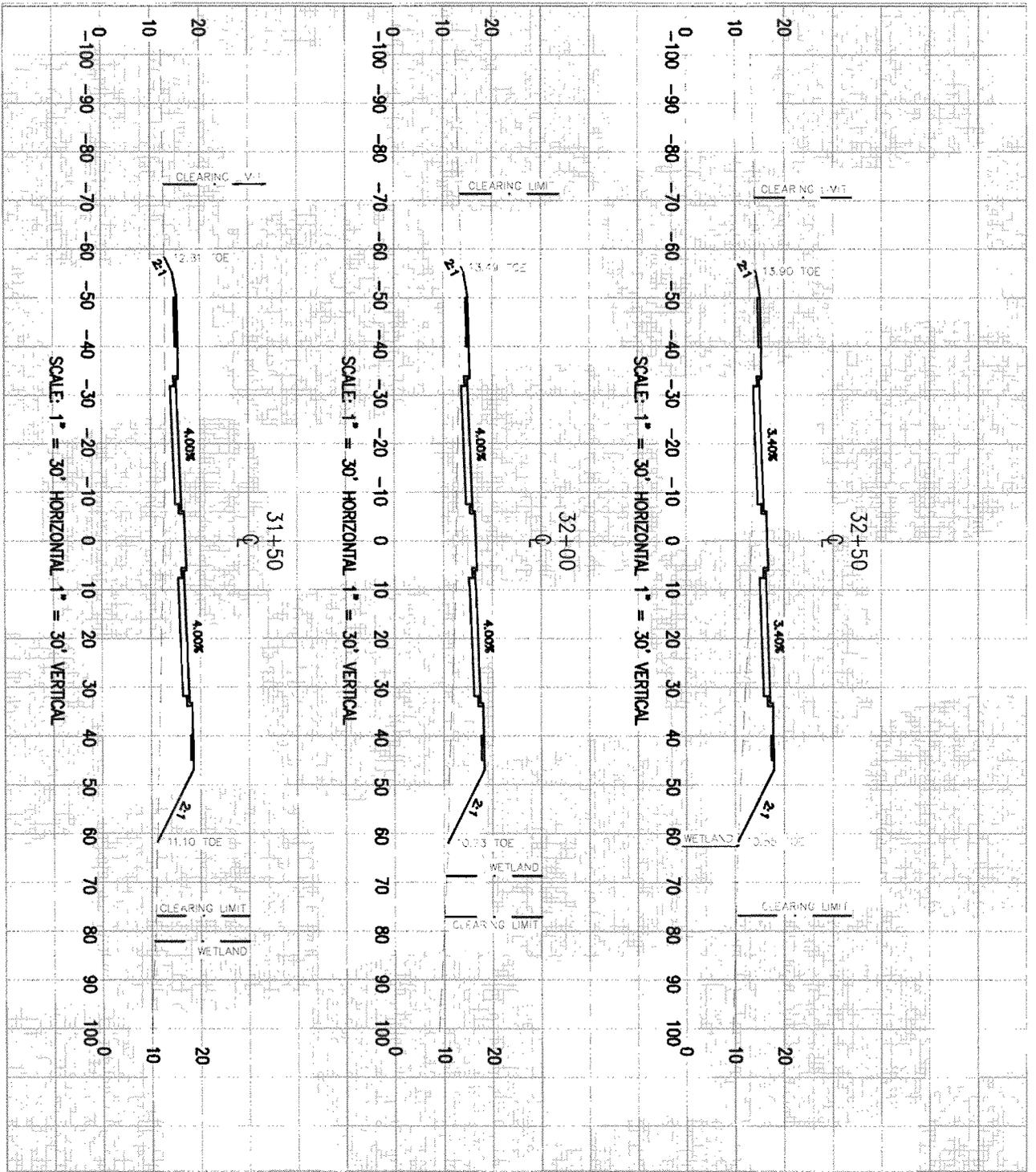
WETLAND 0

SHEET 21 OF 59

SCALE AS NOTED

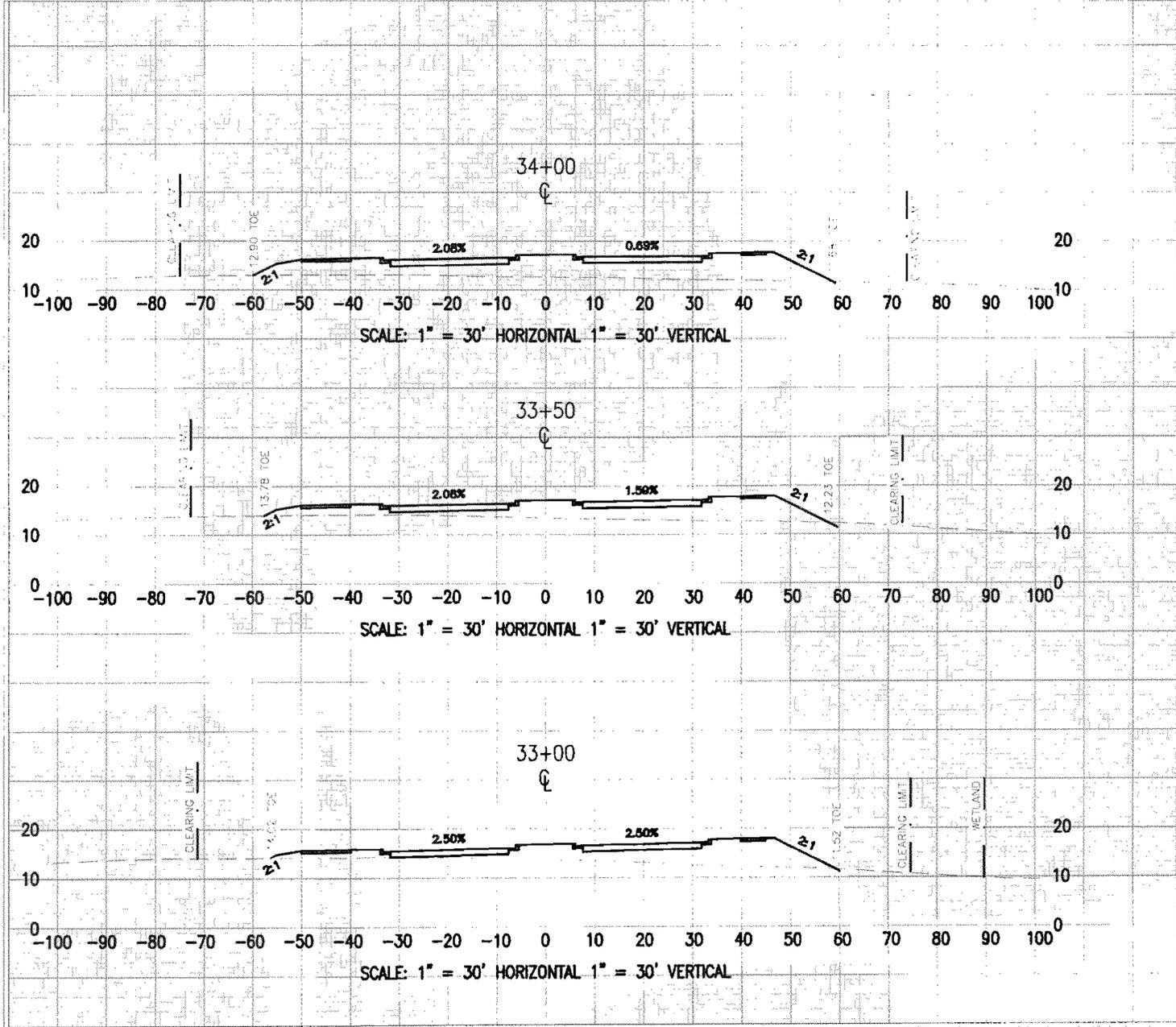
SAC 2012-0068-11W





**SAC 2012-0068-1IW**

 WETLAND Q SHEET 22 OF 59 SCALE AS NOTED	PROJECT 'A' NORTHSIDE & FUTURE DRIVE DIVISION II NORTHSIDE DRIVE EXTENSION	VOLUMES 0 CU. YDS. CUT 16,740 CU. YDS. FILL	PREPARED BY: DAVIS & FLOYD, INC. CHARLESTON, SC
	CITY OF NORTH CHARLESTON DECEMBER 2011		



**SAC 2012-0068-11W**

PROJECT 'A'  
NORTHSIDE & FUTURE DRIVE DIVISION II  
NORTHSIDE DRIVE EXTENSION

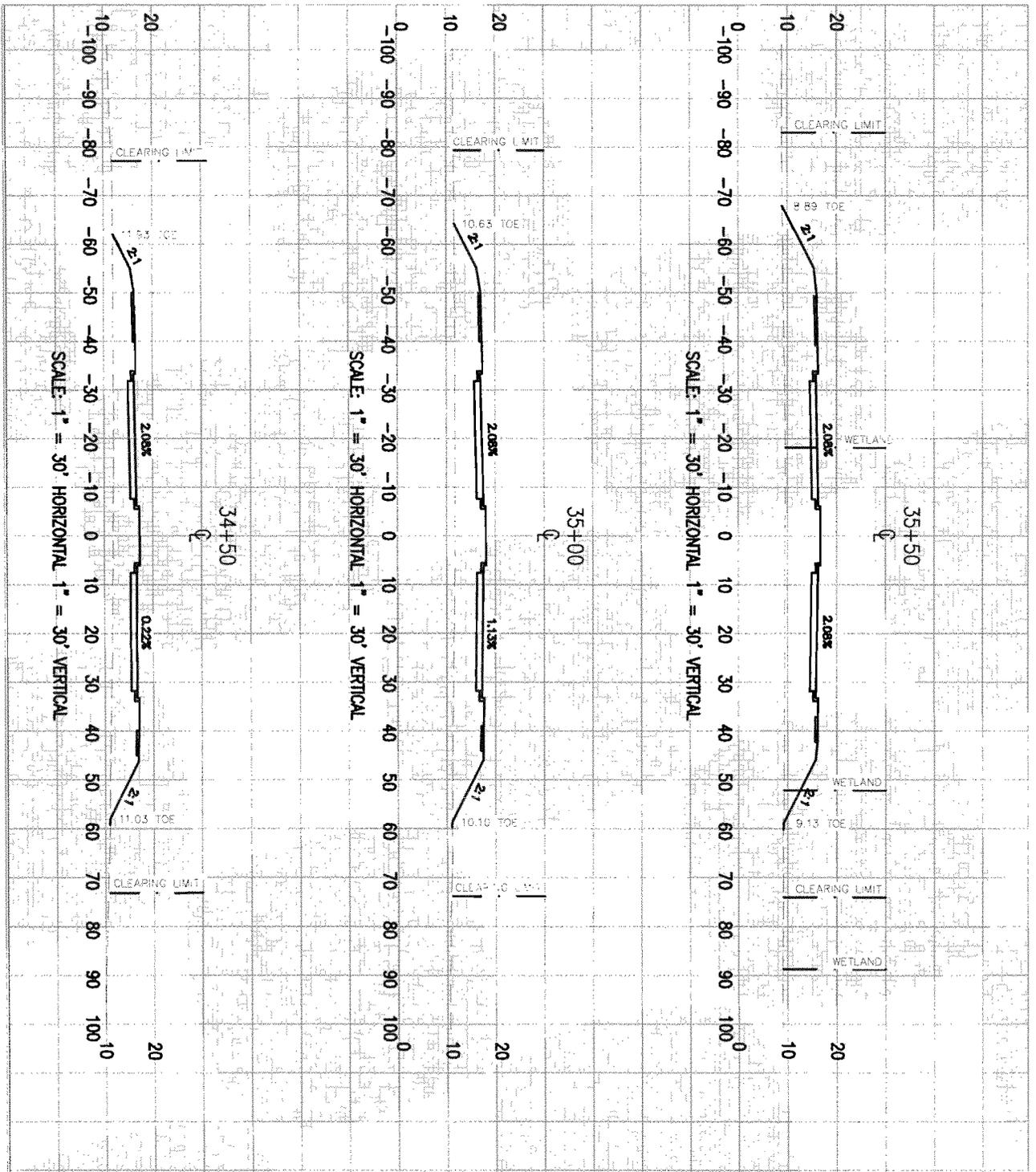
CITY OF NORTH CHARLESTON  
DECEMBER 2011



WETLAND Q  
SHEET 23 OF 59  
SCALE AS NOTED

PREPARED BY:  
DAVIS &  
FLOYD, INC.  
CHARLESTON, SC

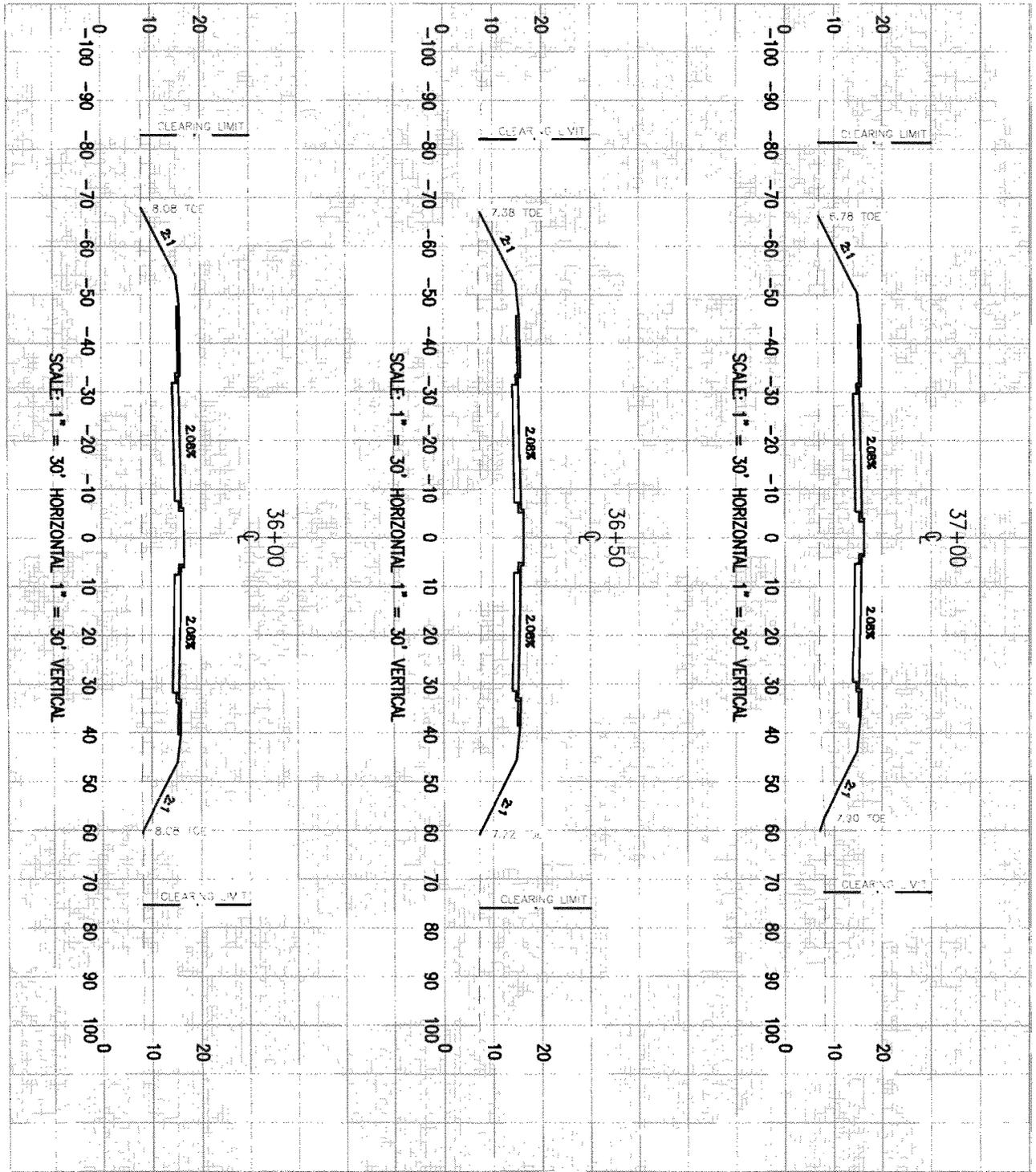
VOLUMES  
SEE SHEET 22



**SAC 2012-0068-1IW**

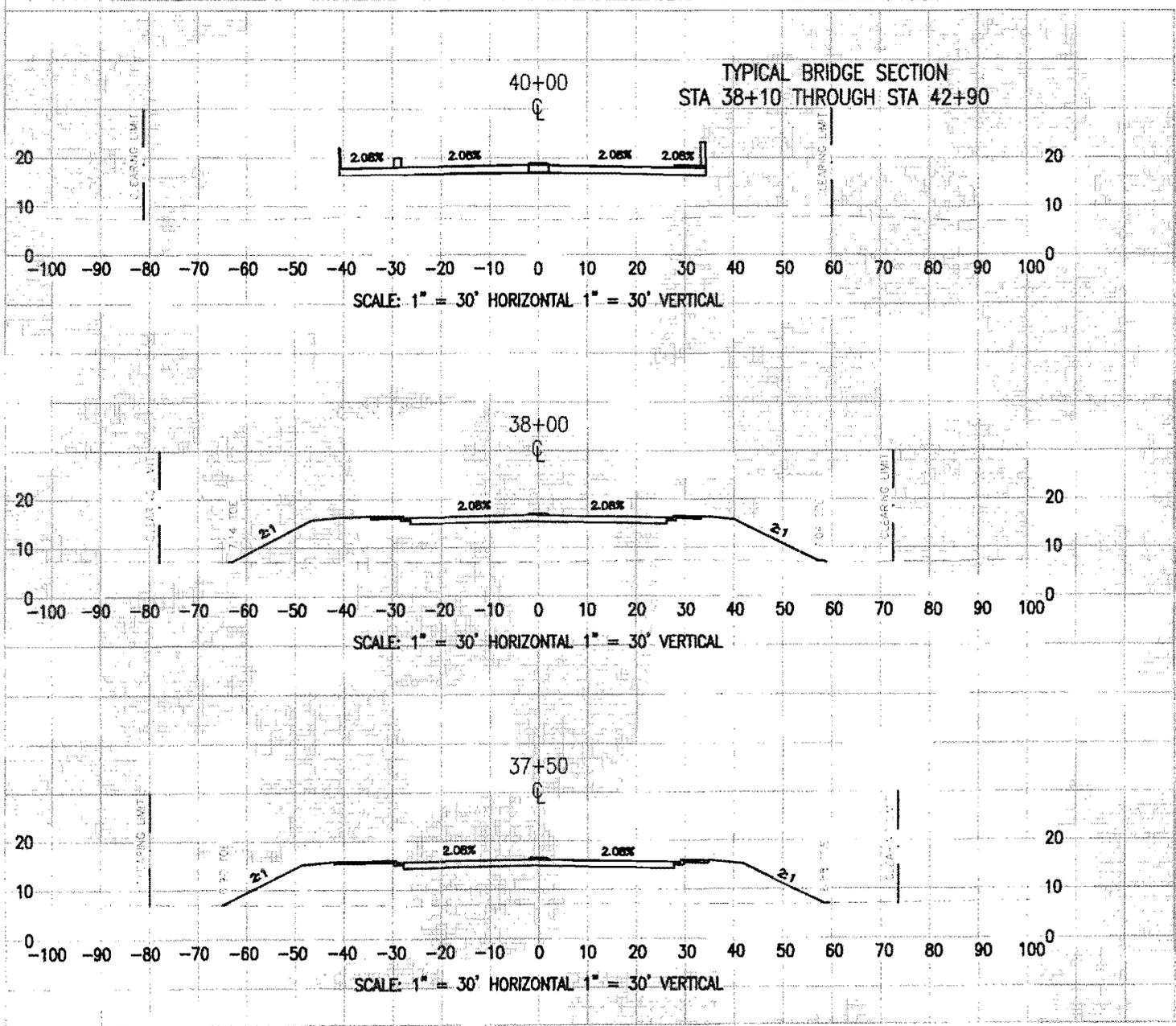
	PROJECT 'A' NORTHSIDE & FUTURE DRIVE DIVISION II NORTHSIDE DRIVE EXTENSION	VOLUMES  SEE SHEET 22	PREPARED BY: DAVIS & FLOYD, INC. CHARLESTON, SC
	CITY OF NORTH CHARLESTON DECEMBER 2011		

WETLAND Q  
 SHEET 24 OF 59  
 SCALE AS NOTED



**SAC 2012-0068-1IW**

 WETLAND Q SHEET 25 OF 59 SCALE AS NOTED	PROJECT 'A' NORTHSIDE & FUTURE DRIVE DIVISION II NORTHSIDE DRIVE EXTENSION	VOLUMES SEE SHEET 22	PREPARED BY: DAVIS & FLOYD, INC. CHARLESTON, SC
	CITY OF NORTH CHARLESTON DECEMBER 2011		



**SAC 2012-0068-1IW**

PREPARED BY:  
DAVIS &  
FLOYD, INC.  
CHARLESTON, SC

VOLUMES  
SEE SHEET 22

PROJECT A  
NORTHSIDE & FUTURE DRIVE DIVISION II  
NORTHSIDE DRIVE EXTENSION  
CITY OF NORTH CHARLESTON  
DECEMBER 2011



WETLAND Q  
SHEET 26 OF 59  
SCALE AS NOTED