DEPARTMENT OF THE ARMY PERMIT

Permittee: SC DEPARTMENT OF TRANSPORTATION (SCDOT)  P. O. BOX 191
C/O SECRETARY CHRISTY HALL  COLUMBIA, SC 29202

Permit No: SAC 2008-1333

Issuing Office: CHARLESTON DISTRICT

NOTE: The term "you" and its derivatives, as used in this permit, means the permittee or any future transferee. The term "this office" refers to the appropriate district or division office of the Corps of Engineers having jurisdiction over the permitted activity or the appropriate official of that office acting under the authority of the commanding officer.

You are authorized to perform work in accordance with the terms and conditions specified below.

Project Description:
The work consists of constructing a new, limited access, approximately 75-mile long, four lane, interstate facility beginning at SC 22, northwest of Conway, South Carolina, extending through Horry, Marion, Dillon and Marlboro Counties and ending at the North Carolina/South Carolina State line, northeast of Bennettsville, South Carolina to serve residents, businesses, and travelers while fulfilling congressional intent in an environmentally sensitive manner in accordance with the attached drawings entitled: PIN 36358 RD01, PROPOSED INTERSTATE 73, MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C. APPLICATION BY SCOOT. Sheets 1 thru 178 of 178 dated June 6, 2016.

Project Location:
The proposed project begins at SC-22 near Conway, South Carolina and ends at the North Carolina/South Carolina State line, northeast of Bennettsville, South Carolina and crosses various waterbodies to include Newton Bay, Beverly Creek, Cottingham Creek, Hagins Prong, Little Reedy Creek, The Gulley, Maidendown Swamp, Little Sister Bay, Back Swamp, Little Pee Dee River, Black Creek, Hannah Bay, Lake Swamp, Rattlesnake Branch, Long Branch, Joiner Swamp, Loosing Swamp, Watery Bay, Mose Swamp, Chinners Swamp, and Cross Branch.

From: Latitude North: 34.79250 N  Longitude West: -79.66042 W
To: Latitude North: 33.93806 N  Longitude West: -79.06833 W

Permit Conditions:

General Conditions:

1. The time limit for completing the work authorized ends on 30 June 2047, if you find that you need more time to complete the authorized activity, submit your request for a time extension to this office for consideration at least one month before the above date is reached.

2. You must maintain the activity authorized by this permit in good condition and in conformance with the terms and conditions of this permit. You are not relieved of this requirement if you abandon the permitted activity, although you may make a good faith transfer to a third party in compliance with General Condition 4 below. Should you wish to cease to maintain the authorized activity or should you desire to abandon it without a good faith transfer, you must obtain a modification of this permit from this office, which may require restoration of the area.

3. If you discover any previously unknown historic or archeological remains while accomplishing the activity authorized by this permit, you must immediately notify this office of what you have found. We will initiate the Federal and state coordination required to determine if the remains warrant a recovery effort or if the site is eligible for listing in the National Register of Historic Places.

Refer to ENG FORM 1721,NOV 86  EDITION OF SEP 82 IS OBSOLETE (33 CFR 325 (Appendix A))
4. If you sell the property associated with this permit, you must obtain the signature of the new owner in the space provided and forward a copy of the permit to this office to validate the transfer of this authorization.

5. If a conditioned water quality certification has been issued for your project, you must comply with the conditions specified in the certification as special conditions to this permit. For your convenience, a copy of the certification is attached if it contains such conditions.

6. You must allow representatives from this office to inspect the authorized activity at any time deemed necessary to ensure that it is being or has been accomplished in accordance with the terms and conditions of your permit.

**Special Conditions:**

SEE PAGES 4, 5 & 6.

Further Information:

1. Congressional Authorities: You have been authorized to undertake the activity described above pursuant to:
   - ✔ Section 404 of the Clean Water Act (33 U.S.C. 1344).

2. Limits of this authorization.
   a. This permit does not obviate the need to obtain other Federal, state, or local authorizations required by law.
   b. This permit does not grant any property rights or exclusive privileges.
   c. This permit does not authorize any injury to the property or rights of others.
   d. This permit does not authorize interference with any existing or proposed Federal project.

3. Limits of Federal Liability. In issuing this permit, the Federal Government does not assume any liability for the following:
   a. Damages to the permitted project or uses thereof as a result of other permitted or unpermitted activities or from natural causes.
   b. Damages to the permitted project or uses thereof as a result of current or future activities undertaken by or on behalf of the United States in the public interest.
   c. Damages to persons, property, or to other permitted or unpermitted activities or structures caused by the activity authorized by this permit.
   d. Design or construction deficiencies associated with the permitted work.
e. Damage claims associated with any future modification, suspension, or revocation of this permit.

4. Reliance on Applicant's Data: The determination of this office that issuance of this permit is not contrary to the public interest was made in reliance on the information you provided.

5. Reevaluation of Permit Decision. This office may reevaluate its decision on this permit at any time the circumstances warrant. Circumstances that could require a reevaluation include, but are not limited to, the following:

a. You fail to comply with the terms and conditions of this permit.

b. The information provided by you in support of your permit application proves to have been false, incomplete, or inaccurate (See 4 above).

c. Significant new information surfaces which this office did not consider in reaching the original public interest decision.

Such a reevaluation may result in a determination that it is appropriate to use the suspension, modification, and revocation procedures contained in 33 CFR 325.7 or enforcement procedures such as those contained in 33 CFR 326.4 and 326.5. The referenced enforcement procedures provide for the issuance of an administrative order requiring you to comply with the terms and conditions of your permit and for the initiation of legal action where appropriate. You will be required to pay for any corrective measures ordered by this office, and if you fail to comply with such directive, this office may in certain situations (such as those specified in 33 CFR 209.170) accomplish the corrective measures by contract or otherwise and bill you for the cost.

6. Extensions. General condition 1 establishes a time limit for the completion of the activity authorized by this permit. Unless there are circumstances requiring either a prompt completion of the authorized activity or a reevaluation of the public interest decision, the Corps will normally give favorable consideration to a request for an extension of this time limit.

Your signature below, as permittee, indicates that you accept and agree to comply with the terms and conditions of this permit.

[Signature]

(PERMITTEE)
SC DEPARTMENT OF TRANSPORTATION (SCDOT)
C/O SECRETARY CHRISTY HALL

[PRINT NAME]

This permit becomes effective when the Federal official, designated to act for the Secretary of the Army, has signed below.

[Signature]

(DISTRICT ENGINEER)
MATTHEW W. LUZZATTO, P.E., PMP, LTC

[DATE]

19 Jun 2017

When the structures or work authorized by this permit are still in existence at the time the property is transferred, the terms and conditions of this permit will continue to be binding on the new owner(s) of the property. To validate the transfer of this permit and the associated liabilities associated with compliance with its terms and conditions, have the transferee sign and date below.

[Transferor's Signature]

(DISTRICT ENGINEER)
[DATE]

[Transferor's Name]

19 Jun 2017

[Print Name]

Looking for a key?
SPECIAL CONDITIONS FOR PERMIT #: SAC 2008-1333

a. That the permittee agrees to provide all contractors associated with construction of the authorized activity a copy of the permit and drawings. A copy of the permit will be available at the construction site at all times.

b. That the permittee shall submit a signed compliance certification to the Corps within 60 days following completion of the authorized work and any required mitigation. The certification will include:
   1. A copy of this permit;
   2. A statement that the authorized work was done in accordance with the Corps authorization, including any general or specific conditions;
   3. A statement that any required mitigation was completed in accordance with the permit conditions;
   4. The signature of the permittee certifying the completion of the work and mitigation.

c. The permittee understands and agrees that the Department of the Army permit has been issued based upon the permittee’s intended purpose to construct and operate an interstate facility in accordance with the permitted plans. The permittee recognizes that its commitment to construct and operate the interstate facility and comply with the proposed mitigation for the impacts resulting from the project as described in the Department of the Army permit application, as well as the environmental commitments that were made as part of the development of the EISs for the I-73 project which were revised and/or re-affirmed, was a deciding factor in the favorable decision on this permit. In addition, the permittee recognizes further that a deviation from such details may be grounds for modification, suspension or revocation of this Department of the Army authorization.

d. The permittee understands and agrees that, if future operations by the United States require the removal, relocation, or other alteration, of the structure or work herein authorized, or if, in the opinion of the Secretary of the Army or his authorized representative, said structure or work shall cause unreasonable obstruction to the free navigation of the navigable waters, the permittee will be required, upon due notice from the Corps of Engineers, to remove, relocate, or alter the structural work or obstructions caused thereby, without expense to the United States. No claim shall be made against the United States on account of any such removal or alteration.

e. That the permittee shall not interfere with the public’s right to free navigation on all navigable waters of the United States, and therefore, at no time shall work impede more than 50% any navigable channel.

f. The permittee must install and maintain, at their expense, any safety lights and signals prescribed by the U.S. Coast Guard (USCG), through regulations or otherwise, on authorized facilities. The USCG may be reached at the following address and telephone number: U. S. Coast Guard District Seven, Waterways Management Branch, 909 SE 1st Ave, Suite 406, Miami, FL. 33131, and 305-415-6755 or 305-415-6750.

g. The permittee understands and agrees that the Department of the Army permit has been issued based upon the permittee’s intended purpose to construct and operate an interstate facility in accordance with the permitted plans. The permittee recognizes that its commitment to construct and operate the interstate facility and comply with the proposed mitigation for the impacts resulting from the project as described in the Department of the Army permit application, as well as the environmental commitments that were made as part of the development of the EISs for the I-73 project which were revised and/or re-affirmed, was a deciding factor in the favorable decision on this permit. In addition, the permittee recognizes further that a deviation from such details may be grounds for modification, suspension or revocation of this Department of the Army authorization.
h. The permittee recognizes that its commitment to perform and implement the following was a deciding factor in the favorable decision on this permit, and recognizes further that a failure on its part to both actively pursue and implement these conditions may be grounds for modification, suspension or revocation of this Department of the Army authorization:

1. As compensatory mitigation to offset impacts to aquatic resources, the permittee will implement and fully comply with the mitigation plan dated May 3, 2017, and entitled “I-73 Compensatory Mitigation Plan Dillon, Horry, Marion, and Marlboro Counties, SC SAC 2008-1333-DIS”.
2. That the permittee must submit evidence of protection of the site to both the Corps of Engineers and DHEC, prior to the commencement of authorized work.

i. During bridge construction, access to the project site must be attained from highland, from the portions of the bridge already completed (“end on end construction”) or from floating barges or mats (instead of barge canals or causeways).

j. The permittee must implement appropriate best management practices that will minimize erosion and migration of sediments on and off the project site during and after construction. These practices should include the use of appropriate grading and sloping techniques, mulches, silt fences, or other devices capable of preventing erosion, migration of sediments, and bank failure. All disturbed land surfaces and sloped areas affected by the project must be stabilized upon project completion.

k. Only clean earthen material free of all potential sources of pollution must be used as fill.

l. Construction activities shall be confined within the permitted limits to prevent the unnecessary disturbance of adjacent wetland areas.

m. Measures must be taken to prevent the spread and establishment of invasive species to the extent practicable.

n. Appropriate containment measures must be taken to prevent pollutants such as gasoline, oil, tar, and debris and other pollutants from entering the adjacent waters or wetlands.

o. A sufficient number of adequately sized culverts must be placed at the same elevation as the streams and wetlands to maintain flows, wetland hydrology, and unrestricted aquatic life passage.

p. That the permittee shall comply with the following conditions during construction in the Little Pee Dee River in order to minimize potential adverse impacts to sturgeon and other anadromous fish:

1. The permittee shall implement an in-water work moratorium from February 1 to April 30.
2. Construction of cofferdams may take place before or after the moratorium, but not during the moratorium. However, once a cofferdam is built, work inside it may continue year-round.
3. Bridge construction will never obstruct more than half of the river at any one time.

q. The permittee shall comply with the stipulations described in the two Memorandum of Agreements among the Federal Highway Administration, the South Carolina Department of Transportation and the South Carolina State Historic Preservation Officer regarding the Interstate 73 Project in Marlboro and Dillon Counties, South Carolina last signed on January 13, 2017 and July 17, 2008 to ensure responsibilities under Section 106 of the NHPA are fulfilled.

r. That the permittee agrees to comply with all FEMA regulations and requirements. The permittee is advised that development activities in a Special Flood Hazard Area (i.e. 100-year floodplain), as designated in the
Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Map (FIRM), are subject to the floodplain management regulations of the National Flood Insurance Program ([NFIP] [44CFR]). The NFIP prohibits any development within a designated floodway, including placement of fill, without a No Impact Certification from FEMA or the local NFIP representative. The permittee shall provide this office with a copy of the No Impact Certification prior to the commencement of authorized work.

s. For I-73 North, the permittee agrees that the drainage/conveyance system shall be designed by a licensed Professional Engineer (PE) and constructed by the permittee (or his designated assignee) to provide for the proper drainage of surface water of the drainage area of which it is a part, to permit the flow of natural or manmade watercourses, and to maintain positive drainage for adjacent properties. In addition, the drainage/conveyance system shall be sufficient to prevent any appreciable increase in water surface elevations or expansion/increases of the flood hazard area.

1. Sufficient documentation, signed by a PE, shall be provided to the Corps for review/approval 120 days prior to the anticipated commencement of authorized work. Documentation, in the form of summaries of modeling/calculations, shall verify that there is no adverse change in water surface elevations or expansion/increases of the flood hazard area on adjacent properties.

2. In cases where increases in water surface elevations or expansion/increases of the flood hazard area are unavoidable, the permittee shall submit to the Corps, 120 days prior to the anticipated commencement of authorized work, all information (including summaries of all data, modeling and/or studies, and inundation maps of the impacted area) supporting the determination that the increases in the flood risk are not appreciable. Written authorization/concurrence must be received from the Corps indicating that any increases are not considered appreciable before work can commence.
NOTES:
(1) THE PORTION OF THE ALIGNMENT IN NORTH CAROLINA WILL BE PERMITTED BY NCDOT THROUGH THE USACE WILMINGTON DISTRICT
(2) SHEETS INDICATE LOCATIONS OF IMPACTS TO JURISDICTIONAL WATERS OF THE U.S. ALONG THE PROJECT CORRIDOR
PIN 36358_RD01
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
DATE: 05/06/2016
SHEET 9 OF 178
Highway
Streams
Waters of the U.S.
Municipalities
Project Corridor
County Boundary

Legend

4,000 Feet
1 in = 4,000 feet

PERMITTED PLANS

HORRY COUNTY, SC

PIN 36358_RD01
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCOOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 10 OF 178
NOTES:
(1) THE PORTION OF THE ALIGNMENT IN NORTH CAROLINA WILL BE PERMITTED BY NCDOT THROUGH THE USACE WILMINGTON DISTRICT.

(2) WATERS OF THE U.S. ARE DESIGNATED BY THE FIRST LETTER OF THE COUNTY AND A NUMERIC DESIGNATION ON THE FOLLOWING SHEETS. FOR EXAMPLE "D 1" INDICATES DILLON COUNTY AND AREA NUMBER 1. (ML = MARLBORO COUNTY; D = DILLON COUNTY; M = MARION COUNTY; H = HORRY COUNTY).

(3) CHANNELS WHICH HAVE BEEN IDENTIFIED ON SCDNR'S DATA LAYER AS STREAMS ARE INDICATED BY "SCDNR XX" WHERE XX EQUALS THE STREAM NUMBER ASSIGNED DURING THE WETLAND DELINEATION.

(4) WETLAND BOUNDARIES BEYOND THE CORRIDOR LIMITS HAVE NOT BEEN VERIFIED BY THE USACE. WHERE JURISDICTIONAL FEATURES EXTEND OUTSIDE THE CORRIDOR, THE APPROXIMATE LOCATION AND DIRECTION ARE SHOWN BY ARROWS AT THE CORRIDOR LIMITS.

(5) SURVEYED TOPOGRAPHIC DATA WAS NOT AVAILABLE IN THE PORTION OF THE ALIGNMENT NORTH OF I-95; THEREFORE, THE ROADWAY WAS DESIGNED USING USGS DIGITAL ELEVATION MAPPING (DEM) TO SET THE ELEVATIONS AND CONSTRUCTION LIMITS. THE ESTIMATED ACCURACY OF THE MAPPING IS +/- 10 FEET.

(6) SURVEYED TOPOGRAPHIC DATA WAS AVAILABLE AND USED TO DESIGN THE PORTION OF THE ALIGNMENT FROM I-95 SOUTH TO SC 22.

(7) FINAL HYDROLOGIC STUDIES HAVE NOT BEEN COMPLETED FOR THE PORTION OF THE ALIGNMENT NORTH OF I-95, THEREFORE PIPE SIZES ARE NOT KNOWN AT THIS TIME. PRIOR TO BEGINNING CONSTRUCTION ON THIS PORTION OF THE ALIGNMENT, FINAL HYDROLOGIC STUDIES WILL BE COMPLETED AND PROPERLY SIZED PIPES AND/OR CULVERTS WILL BE INSTALLED AT STREAM AND WETLAND CROSSINGS TO MAINTAIN HISTORIC HYDROLOGIC CONNECTIONS.

(8) FINAL HYDROLOGIC STUDIES WERE COMPLETED FOR THE ALIGNMENT SOUTH OF I-95 AND CROSS PIPES AND/OR CULVERTS ARE INDICATED ON THE PERMIT DRAWINGS.
CROSS SECTION

POTENTIAL FILL AREA
INCLUDED IN CALCULATION
SEE SHEET 12

SECTION A-A

PERMITTED PLANS

NOTE:
WETLAND UNITS EXTEND
BEYOND CORRIDOR LIMITS

PIN 36358..RDDI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 13 OF 178
NOTE:
Pipes and vaults will be installed at all crossings of Wetlands. The USGS topographic maps and survey data have not yet been reviewed.

PERMITTED PLANS

LEGEND
TAW = TRADITIONALLY NAVIGABLE WATER
RMP = RELATIVELY PERMANENT WATER
KPM = KNOWN RELATIVELY PERMANENT WATER
Wetlands = DENOTES WETLAND LIMITS
--- = DENOTES CONSTRUCTION LIMITS
--- = DENOTES PROPERTY LINE
--- = DENOTES FILL
--- = DENOTES TEMP. CLEAR
--- = DENOTES PERM. CLEAR
--- = DENOTES EXCAVATION

PIN 36358.000
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 14 OF 178
PERMITTED PLANS

NOTE:
Plains and culverts will be installed at all crossings of Wetlands of the U.S.

NOTE:
Surveyed topographic data was not available, therefore the mapping was designed using USGS topographic mapping to set the elevations and construction limits. The estimated accuracy of the mapping is +/-10 feet.

PIN 36358_RDOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 16 OF 178
PERMITTED PLANS

NOTE:
Pipes and detention will be installed at all crossings of Wetland of the US, however appropriate pipe and detention sizes have not been determined.

NOTE:
Wetland boundaries beyond corridor limits have not been verified by USACE.

NOTE:
Surrogated topographic data was not available therefore the roadway was designed using USGS topographic mapping to set the alignments and construction limits. The extended coverage of the mapping is V=10 Feet.

PIN 36358_R001
PROPOSED INTERSTATE 73 MARLBORO, DILLON, MARION AND HOPPY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2019
SHEET 17 OF 178
PERMITTED PLANS

PIN 36353_RCOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 18 OF 178

CROSS SECTION

NOTE:
WETLAND LIMITS EXTEND BEYOND CORRIDOR LIMITS

GRAPHIC SCALE 1" = 500 HORIZ.

SECTION B-B

PERMITTED PLANS

NOTE:
Surveyed topographic data was not available; therefore the roadway was designed using GIS topographic mapping to set the elevations and construction limits. The estimated accuracy of the mapping is ±10 feet.
PERMITTED PLANS

LEGEND

TMY - TRADITIONALLY MANSURABLE WATER
HPW - PERMANENT WATERS
WPW - NINF-RELATED PERMANENT WATER
Wetlands - DENOTES WETLAND UNITS
--- DENOTES CONSTRUCTION UNITS
R. DENOTES PROPERTY LINE
- DENOTES OIL
- DENOTES TCEQ, CLEAR
- DENOTES PERK, CLEAR
- DENOTES EXCAVATION

NOTE:
Plots and curvets will be installed at all crossings of waters of the U.S. However, appropriate pipe and culvert sizes have not yet been determined.

NOTE:
Wetland boundaries beyond corridor limits have not been verified by the USACE.

NOTE:
Surveyed topographic data was not available, therefore the roadway was designed using USGS topographic mapping to set the elevations and construction limits. The estimated conveyance of the mapping is +/-10 feet.

REVISED: 07/01/2016

PIN 36358_RSP
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE:06/06/2016
SHEET 19 OF 178
NOTE:
Plains and culverts will be installed at all crossings of Waters of the U.S., however, appropriate pipes and culvert sizes have not yet been determined.

NOTE:
Wetland boundaries beyond corridor limits have not been verified by the USACE.

NOTE:
Surveyed topographic data was not available, therefore the mapping was designed using USGS topographic mapping to set the elevations and construction limits.

The estimated accuracy of the mapping is +/- 10 feet.

PERMITTED PLANS

REVISED: 07/01/2016

PIN 36358_RD01
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
-SHEET 20 OF 178-
PERMITTED PLANS

PIN 35358_R50I
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 22 OF 178

NOTES:
Surveyed topographic data was not available; therefore
the routing was designed using USGS topographic
mapping to set the elevations and construction limits.
The estimated accuracy of the mapping is ±10 feet.
PLAN VIEW

NOTES:
- Plants and culverts will be installed at all crossings of Waters of the US. Jurisdiction appropriate pipe and culvert sizes have not yet been determined.
- Wetland boundaries beyond corridor limits have not been verified by the USC.
- Surveyed topographic data was not available; therefore the roadway was designed using USGS topographic mapping to set the elevations and construction limits. The estimated accuracy of the mapping is ±0.5 feet.

LEGEND
- TIN = Traditionally Navigable Water
- RW = Relatively Permanent Water
- RPW = Relatively Permanent Water
- Wetlands = - Denotes Wetland Units
- - Denotes Construction Limits
- - Denotes Property Line
- - Denotes Fill
- - Denotes Temp. Clear
- - Denotes Perm. Clear
- - Denotes Excavation

PERMITTED PLANS

PIN 36358-RD01
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 23 OF 178
PERMITTED PLANS

SECTION D-D

NOTE: Surveyed topographic data was not available therefore the roadway was designed using USGS topographic mapping to set the elevations and construction limits. The estimated accuracy of the mapping is +/- 10 feet.

PIN 36358-RDO
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 24 OF 178
NOTED:
Pipes and culverts will be installed at all crossings of Waters of the U.S. however, appropriate pipe and culvert sizes have not yet been determined.

NOTE:
Wetland boundaries beyond corridor limits have not been verified by the USACE.

NOTE:
Surveyed topographic data was not available therefore the roadway was designed using USGS topographic mapping to set the elevations and construction limits. The estimated accuracy of the mapping is +/- 10 feet.
CROSS SECTION

PORTENTIAL WETLAND FILL IMPACT

POTENTIAL FILL AREA INCLUDED IN CALCULATION SEE SHEET 25

NOTES EXISTING GROUND LINE
- DENOTES FILL
- DENOTES EXCAVATION

PERMITTED PLANS

PIN 36358_R001
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 26 OF 178

NOTE:
SURVEYED topographic data was not available, therefore
the mapping was designed using 1932 topographic
mapping to set the elevations and construction limits.
The stated accuracy of the mapping is ±10 feet.
CROSS SECTION

PERMITTED PLANS

NOTE: Survey topographic data was not available therefore the roadway was designed using USGS topographic mapping to set the abutments and construction limits. The minimum coverage of the mapping is +/-10 feet.

PIN 36358_RDDI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 29 OF 178
PLAN VIEW

PERMITTED PLANS

LEGEND

- - TRADITIONALLY Navigable WATER
RPW = RELATIVELY PERMANENT WATER
NRPW = NON-RELATIVELY PERMANENT WATER

- - DENOTES WETLAND LIMITS
- - - - DENOTES CONSTRUCTION LIMITS
- - - - - DENOTES PROPERTY LIMITS
- - - - - - DENOTES FILL
- - - - - - - DENOTES TEMP. CLEAR
- - - - - - - - - DENOTES PERMANENT CLEAR
- - - - - - - - - - - - - - - - - DENOTES EXCAVATION

NOTE:
Plains and culverts will be installed at all crossings of Wetlands at the USACE/Army Corps.

NOTE:
Wetland boundaries beyond corridor limits have not been verified by the USACE.

NOTE:
Surveyed topographic data was not available; therefore the roadway was designed using USGS topographic
mapping to set the elevations and construction limits. The estimated accuracy of the mapping is +/- 10 feet.

PIN 36358_RDOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 30 OF 178
**Plan View**

**Proposed Right of Way**

**Jurisdictional Ditch**

**Permitted Plans**

**Legend**

- **THW - Traditionally Variable Water**
- **RWH - Relatively Permanent Water**
- **NWH - Non-Relatively Permanent Water**
- **Wetlands**
  - Denotes Wetland Units
  - Denotes Construction Units
  - Denotes Property Line
- **DENOTES FILL**
- **DENOTES TEMP. CLEAR**
- **DENOTES PERM. CLEAR**
- **DENOTES EXCAVATION**

- **NOTES**
  - Wetland boundaries beyond corridor limits have not been verified by the USACE.
  - Surveyed topographic data was not available; therefore the roadway was designed using USGS topographic mapping to set the widths and construction limits. The estimated accuracy of the mapping is +/- 10 feet.

- **NOTES**
  - Pipes and culverts will be installed at all crossings of waters of the U.S., however approximate pipe and culvert sizes have not yet been determined.

**Proposed Interstate 73**

**Marlboro, Dillon, Marion, and Horry Counties, SC.**

**Application by SC DOT**

**Federal Funds to be Used**

**Date:** 06/06/2016

**Sheet:** 31 of 178

**REVISED:** 07/01/2016

**PIN 36358-RDCI**

**300 0 300**

**GRAPHIC SCALE 1" = 300'**
PERMITTED PLANS

NOTE:

Pipes and culverts will be installed at all crossings of Waters of the U.S., however, construction pipe and culvert sizes have not been verified by the USACE.

NOTE:

Wetland boundaries beyond corridor limits have not been verified by the USACE.

NOTE:

Surfaced topographic data was not available, therefore the roadway was designed using 1955 topographic mapping to set the elevations and construction limits. The estimated accuracy of the mapping is ±10 feet.

LEGEND

TIM - TRADITIONALLY NAVIGABLE WATER
RPW - RELATIVELY PERMANENT WATER
IRPW - IRREGULARLY PERMANENT WATER
Wetlands - DENOTES WETLAND UNITS
DENOTES CONSTRUCTION UNITS
DENOTES PROPERTY LINE
DENOTES FILL
DENOTES TEMP. CLEAR
DENOTES PERS. CLEAR
DENOTES EXCAVATION

PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 33 OF 178
PERMITTED PLANS

NOTE: Surveyed topographic data was not available therefore the routing was designed using USGS topographic mapping to set the elevations and construction limits. The estimated accuracy of the mapping is ±10 feet.
PLAN VIEW

PERMITTED PLANS

PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 37 OF 178
PLAN VIEW

PERMITTED PLANS

NOTE:
- Pipes and culverts will be installed at all crossings of the stream provided the appropriate pipe and culvert sizes have not yet been determined.

NOTE:
- Wellhead boundaries beyond corridor limits have not been verified by the USGS.

NOTE:
- Surveyed topographic data was not available therefore the routing was designed using USGS topographic mapping to set the elevations and construction limits. The estimated accuracy of the mapping is +/- 6 feet.

LEGEND
- TRW - TRADITIONALLY VARIABLE WATER
- RPW - RELATIVELY PERMANENT WATER
- RPPW - NON-RELATIVELY PERMANENT WATER
- Wetlands - DENOTES WETLAND UNITS
- DENOTES CONSTRUCTION UNITS
- DENOTES PROPERTY LINE
- DENOTES TEMP. CLEAR
- DENOTES PERM. CLEAR
- DENOTES EXCAVATION

PIN 36358_RDN
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 39 OF 178
PERMITTED PLANS

PIN 36358...R001
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 40 OF 178

NOTE: Surveyed topographic data was not available, therefore the rendering was designed using USGS topographic mapping to set the elevations and construction limits. The estimated accuracy of the mapping is +/- 10 feet.
CROSS SECTION

PERMITTED PLANS

NOTE: Wetland units extend beyond corridor units.

SECTION K-K

DENOTES EXISTING GROUND LINE
DENOTES FILL
DENOTES EXCAVATION

GRAPHIC SCALE 1' = 50' HORIZ.

NOTE: Surveyed topographic data was not available therefore the roadway was designed using USGS topographic mapping to set the elevations and conservation limits. The estimated cover of the mapping is +/-10 feet.

PIN 36358/3001
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 42 OF 178
NOTE:
Plains and control lines will be installed at all crossings of Wetlands of the U.S., however appropriate pipe and control sizes have not yet been determined.

LEGEND
- Traditionals Permanent Water
- Relatively Permanent Water
- Non-Relatively Permanent Water
- Wetlands
- Denotes Wetlands
- Denotes Construction Limits
- Denotes Property Line
- Denotes Fill
- Denotes Temp. Clear
- Denotes Per. Clear
- Denotes Excavation

PERENNIAL STREAM
RPW (SCORR 258)
D63 (Cont'd on this sheet)
0.02 Acres Fill
72 Linear Feet

BOTTOMLAND HARDWOOD
WETLAND ABUTTING RPW
D61
0.49 Acres Fill
0.14 Acres Temp. Clear

PERMITTED PLANS

NOTE:
Wetland boundaries and property lines have not been verified by the USFWS.

NOTE:
Surveyed topographic data was not available; therefore the TopoMap was generated using USGS TopoMaps mapping to set the elevations and construction limits. The estimated accuracy of the mapping is +/- 10 feet.

PIN 36358-RDC
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 43 OF 178
PLAN VIEW

NOTES:
- Plans and notes will be inserted at all crossings of waters of the U.S. wherever appropriate.
- Subterranean and surface water have not yet been identified.

- Water bodies beyond corridor limits have not yet been verified by the USGS.

- Surveyed topographic data was not available from the USGS.

- Total acreage of the proposed project is 10 acres.

- Drafted by SCDOT.

- Federal funds to be used.

DATE: 06/06/2016

SHEET 44 OF 78

PERMITTED PLANS

LEGEND

THW - TRADITIONALLY NAVIGABLE WATER
RPW - RELATIVELY PERMANENT WATER
NPW - NON-RELATIVELY PERMANENT WATER
Wetlands - Denotes wetland units
- Denotes construction units
- Denotes property line
- Denotes fill
- Denotes temp. clear
- Denotes perm. clear
- Denotes excavation

PIN 36358_R001
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 44 OF 78
PERMITTED PLANS

PIN 36358_RDOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 45 OF 178

NOTE: Surveys and topographic data was not available, therefore the existing was designed using 1959 topographic mapping to set the elevations and construction limits. The estimated accuracy of the mapping is +/– 10 feet.
PLAN VIEW

LITTLE REEDY CREEK

EXISTING CULVERTS TO BE EXTENDED

BOTTOMLAND HARDWOOD WETLAND ABUTTING RPW
1.44 ACRES FILL
0.64 ACRES TEMP. CLEAR
0.07 ACRES PERMANENT CLEAR
0.50 ACRES EXCAVATION

PERMITTED PLANS

NOTE:
Wetland boundaries beyond corridor limits have not been verified by the USACE.

LEGEND

TAW - TRADITIONALLY NARROWABLE WATER
RPW - RELATIVELY PERMANENT WATER
NPW - NON-RELATIVELY PERMANENT WATER
Wetlands - DENOTES WETLAND UNITS
DENOTES CONSTRUCTION LIMITS
DENOTES PROPERTY LINE
DENOTES FILL
DENOTES TEMP. CLEAR
DENOTES PERMANENT CLEAR
DENOTES EXCAVATION

PIN 36358...RDO
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 41 OF 178
PL.AN & PROFILE VIEW

PLAN

PROFILE

HYDROLOGY DATA

D.A. = 22.34 SQ. MI.

Q_{wp} = 1792 CFS

AREA FURNISHED UNDER EL. 162.69 = 220 S.F.

V_{wp} = 7.50 FT/SEC.

Q_{wp} = 2215 CFS

AREA FURNISHED UNDER EL. 163.76 = 220 S.F.

V_{wp} = 5.00 FT/SEC.

BACKWATER_{wp} = 2.00'

OVERTOPPING FLOOD

Q > 3375 CFS (500-YR. DISCHARGE)

PROBABILITY < 0.00

PERMITTED PLANS

PIN 36358_R001

PROPOSED INTERSTATE 73

MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.

APPLICATION BY SC DOT

FEDERAL FUNDS TO BE USED

DATE: 06/06/2016

SHEET 47A OF 178
PLAN & PROFILE VIEW

**Hydrology Data**
- **D.A.** = 22.34 SQ. M.
- **Q_{90}** = 1733 CFS
- **V_{90}** = 7.30 FT/SEC.
- **Q_{100}** = 3215 CFS
- **V_{100}** = 9.00 FT/SEC.
- **Backwater** = 2.00'

**Overtopping Flood**
- **Q > 3370 CFS (600-Year Discharge)**
- **Probability < 0.02**

**Profile View**
- **2062+00** to **2063+00**
- **2064+00** to **2065+00**

**Permitted Plans**

*Pin 36359_RCO1*
*Proposed Interstate 73*
*Marlboro, Dillon, Marion and Horry Counties, S.C.*
*Application by SCOT*
*Federal Funds to be Used*
*Date: 06/06/2016*
*Sheet 478 of 178*
PERMITTED PLANS

SECTION 0-0

- DENOTES EXISTING GROUND LINE
- DENOTES FILL
- DENOTES EXCAVATION

CROSS SECTION

NOTE:
WETLAND LIMITS EXTEND BEYOND CORRIDOR LIMITS

DENOTES EXISTING GROUND
DENOTES FILL
DENOTES EXCAVATION

PIN 36358_R001
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 50 OF 178
NOTE:
WETLAND UNITS EXTEND BEYOND CORRIDOR UNITS

PERMITTED PLANS

PIN 36358 RDOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 52 OF 178
LEGEND

TYP - TRADITIONALLY FAVORABLE WATER
RPW - RELATIVELY PERMANENT WATER
NRPW - NON-RELATIVELY PERMANENT WATER

Wetlands - DENOTES WETLAND UNITS
Wetlands - DENOTES EXCAVATION

PERMITTED PLANS

PIN 36358_RCO1
PROPOSED INTERSTATE 73
MARLBOFOR, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 53 OF 178
CROSS SECTION

SECTION 0-0

PERMITTED PLANS

PIN 36358_RDO1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 54 OF 178
CROSS SECTION

NO CLEARING. WETLAND IS A POND. SEE SHEET 57

SECTION 5-S

PERMITTED PLANS

PIN 36358_RDDI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 58 OF 178
PERMITTED PLANS

NON-JURISDICTIONAL POND
NON-REGULATED ISOLATED WATER
0.31 ACRE FILL

PIPED TO MAINTAIN FLOW

NON-JURISDICTIONAL POND
NON-REGULATED ISOLATED WATER
0.27 ACRE FILL

EXISTING CHANNEL TO BE RELOCATED AND TIED TO PIPE/CULVERT

PUMPS TO MAINTAIN FLOW

BOTTOMLAND HARDWOOD WETLAND ADJACENT TO NRPM
0.02 ACRE FILL

JURISDICTIONAL DITCHES
0.27 ACRE FILL
0.02 ACRE EXCAVATION
0.23 ACRE TEMP CLEAR

bottomland hardwood wetland adjacent to NRPM
0.36
0.14 ACRE FILL
0.02 ACRE EXCAVATION
0.23 ACRE TEMP CLEAR

NOTE:
Wetland boundaries beyond corridor limits may not be verified by the USACE.

REVISED 07/01/2016

PIN 36358...RCD
PROPOSED INTERSTATE 73 MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 60 OF 178
CROSS SECTION

NO CLEARING, WETLAND IS A POND

SECTION T-T

PERMITTED PLANS

PIN 36358_RD01
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, SC.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 61 OF 178
PLAN VIEW

EXISTING CHANNEL TO BE RELOCATED AND TIED TO PIPE/CULVERT

PROPOSED RIGHT OF WAY

JURISDICTIONAL DITCH NRWP
D36 (DNR SN 100) 0.02 ACRES FILL

DITCHED BOTTOMLAND HARDWOOD WETLAND ADJACENT TO NRWP
D37 0.35 ACRES FILL

BOTTOMLAND HARDWOOD WETLAND ABUTTING NRWP
D35 0.24 ACRES FILL 0.01 ACRES TEMP. CLEAR

WET PLANTED PINES WETLAND ADJACENT TO NRWP
D34 0.002 ACRES FILL

PERMITTED PLANS

LEGEND

TWM - TRADITIONALLY VARIABLE WATER
RPW - RELATIVELY PERMANENT WATER
NRWP - NON-RELATIVELY PERMANENT WATER
Wetlands - DENOTES WETLAND UNITS
- - - DENOTES CONSTRUCTION UNITS
----- DENOTES PROPERTY LINE
DENOTES FILL
DENOTES TEMP. CLEAR
DENOTES PERMANENT CLEAR
DENOTES EXCAVATION

NOTE: Wetland boundaries beyond centerline limits have not been verified by the USACE.

PIN 36358_RDOI
PROPOSED INTERSTATE 73 MARLBORO, DILLON, MARION AND HORRY COUNTRIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 62 OF 178
CROSS SECTION

SECTION U-U

PERMITTED PLANS

PIN 36358 RDQI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 63 OF 178
NOTE: WETLAND UNITS EXTEND BEYOND CORRIDOR UNITS

PERMITTED PLANS

PIN 36358.RDOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 64 OF 178
PIN 36358_REDOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 65 OF 178
PERMITTED PLANS

PIN 36358_RDO1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTRIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 66 OF 178

GRAPHIC SCALE 1" = 62.5' HORIZ.
CROSS SECTION

NO CLEARING. WETLAND IS A POND

WETLAND EDGE

108
100
92
84

SECTION Z-Z

PERMITTED PLANS

PIN 36358_RDOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 69 OF 178

GRAPHIC SCALE 1" = 50' HORIZ.
PLAN VIEW

PERMITTED PLANS

PIPS TO MAINTAIN FLOW

BOTTOMLAND HARDWOOD/DITCH
NON-REGULATED ISOLATED WATERS
0.03 DMP SH 661
0.05 ACRES FILL
0.03 ACRES EXCAVATION
0.03 ACRES TEMP. CLEAR

NOTES:
Wetland boundaries beyond corridor limits
have not been verified by the USACE.

LEGEND

TM - TRADITIONALLY MXADURABLE WATER
RPM - RELATIVELY PERMANENT WATER
HPW - NON-RELATIVELY PERMANENT WATER
Wetland - DENOTES WETLAND UNITS
- - - DENOTES CONSTRUCTION LIMITS
- - DENOTES PROPERTY LINE
- - DENOTES FILL
- - - DENOTES TEMP. CLEAR
- - DENOTES PERM. CLEAR
- - - DENOTES EXCAVATION

PIN 36358...ROOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, SC.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 70 OF 178
NOTE: WETLAND UNITS EXTEND BEYOND CORRIDOR LIMITS.
CROSS SECTION

PERMITTED PLANS

PIN 36358_R001
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 73 OF 78
NOTE:
WETLAND LIMITS EXTEND
BEYOND CORRIDOR LIMITS

SECTION DD-DD

PERMITTED PLANS

PIN 36358-RDO1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 76 OF 178
PLAN VIEW

GRAPHIC SCALE 1" = 300'

CLEARCUT WET PINE FLATWOOD
NON-REGULATED ISOLATED WATER
952 ACRES FILL
0.25 ACRES EXCAVATION

AGRICULTURAL POND
NON-REGULATED SURFACE WATER
0.05 ACRES FILL

PERMITTED PLANS

NOTE:
Wetland boundaries beyond corridor limits have not been verified by the USACE.

PIN 36358.RD01
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 77 OF 178
SECTION EE-EE

PERMITTED PLANS

PIN 36358_RDD1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 78 OF 178
PLAN VIEW

GRAPHIC SCALE 1' = 300'

BOTTOMLAND HARDWOOD WETLAND ADJACENT TO NR PW
M25 (NR PW 730)
0.02 ACRES FILL
0.01 ACRES EXCAVATION
0.01 ACRES TEMP. CLEAR

PIPPS TO MAINTAIN FLOW

3580

EXISTING CHANNEL TO BE RELOCATED AND TIED TO PIPE/CULVERT

BOTTOMLAND HARDWOOD/DECIDUOUS SHRUB SWAMP WETLAND ABUTTING RPW
M24 (NR PW 730)
0.56 ACRES FILL
0.02 ACRES EXCAVATION
0.02 ACRES TEMP. CLEAR

PROPOSED RIGHT OF WAY

PERMITTED PLANS

NOTE: Wetland boundaries beyond carriage limits have not been verified by the USACE.

LEGEND

TAW = TRADITIONALLY NAGABLE WATER
RPW = RELATIVELY PERMANENT WATER
NR PW = NON-RELATIVELY PERMANENT WATER
Wetlands = DEPICTS WETLAND UNITS
- - - = DEPICTS CONSTRUCTION LIMITS
R = DEPICTS PROPERTY LINE
= DEPICTS FILL
= DEPICTS TEMP. CLEAR
= DEPICTS PERM. CLEAR
= DEPICTS EXCAVATION

PIN 36358_RDO
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 79 OF 178
PERMITTED PLANS

PIN 36358_RDO
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 80 OF 178
PLAN & PROFILE VIEW

HYDROLOGY DATA
DA = 2.28 SD. III
Q_{av} = 425 CFS
Area furnished under EL 97.41 = 394.0 B.F.
V_{cp} = 1.3 DTED
Q_{av} = 425 CFS
Area furnished under EL 97.70 = 292.0 B.F.
V_{cp} = 1.3 DTED
Backwater = 0.67

OVERSTANDING FLOOD Q = 106 CFS (50-YR DISCHARGE)
PROBABILITY = 0.02

PERMITTED PLANS
PIN 36356-0001
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 83A OF 178
PLAN VIEW

EXISTING CHANNEL TO BE RELOCATED AND TIED TO PIPE/CULVERT

NOTE: Wetland boundaries beyond corridor limits have not been verified by the USACE.

LEGEND

TWH - TRADITIONALLY HABITABLE WATER
RPM - RELATIVELY PERMANENT WATER
NRPM - NON-RELATIVELY PERMANENT WATER
Wetlands - DENOTES WETLAND UNITS
    - DENOTES CONSTRUCTION UNITS
    - DENOTES PROPERTY LINE
    - DENOTES EROSION
    - DENOTES FILL
    - DENOTES TEMP. CLEAR
    - DENOTES PERM. CLEAR
    - DENOTES EXCAVATION

PIN 36358.RDO
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 85 OF 178
CROSS SECTION

SECTION II-II

PERMITTED PLANS

PIN 36358_RDC1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 86 OF 178
PLAN VIEW

PERMITTED PLANS

LEGEND

- TAW - TRADITIONALLY WASHABLE WATER
- RPW - RELATIVELY PERMANENT WATER
- NRPW - NON-RELATIVELY PERMANENT WATER
- Wetlands - DENOTES WETLAND UNITS
- - DENOTES CONSTRUCTION UNITS
- - DENOTES PROPERTY LINE
- DENOTES FILL
- DENOTES TEMP. CLEAR
- DENOTES PERM. CLEAR
- DENOTES EXCAVATION

NOTE: Wetland boundaries beyond corridor limits
have not been verified by the USACE.

REVIS: 07/01/2016

PIN 36358_RCOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 87 OF 178
SECTION LL-LL

PERMITTED PLANS

PIN 36358_RDO1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 90 OF 178

GRAPHIC SCALE 1" = 25' HORIZ.
PERMITTED PLANS

LEGEND

- TAW = Traditionally Inavigable Water
- RPMW = Relatively Permanent Water
- NPMW = Non-Relatively Permanent Water
- Wetlands = Denotes Wetland Units
- Denotes Construction Units
- Denotes Property Line
- Denotes Fill
- Denotes Temp. Clear
- Denotes Perm. Clear
- Denotes Excavation

NOTE: Indent boundaries have been verified by the USACE.

PIN 36358_RDOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 91 OF 178
CROSS SECTION

NOTE:
WETLAND UNITS EXTEND BEYOND CLEARING UNITS

PERMITTED PLANS

PIN 36358_RD01
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 92 OF 178
PLAN VIEW

PERMITTED PLANS

EXISTING BRIDGE TO BE REPLACED AND EXTENDED

BOTTOMLAND HARDWOOD WETLAND ABUTTING RPP 1633 (QWR SW 59)
0.34 ACRES FILL
0.05 ACRES TEMP. CLEAR

LEGEND

RTW: Traditionally Navigable Water
RW: Relatively Permanent Water
KRW: Non-Relatively Permanent Water
Wetlands: Denotes Wetland Units
Construction Units: Denotes Construction Units
Property Line: Denotes Property Line
Fill: Denotes Fill
Temporary Clear: Denotes Temp. Clear
RERP: Temporary Clear
Excavation: Denotes Excavation

PIN 36356...RDO
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 93 OF 178
PLAN VIEW

INTERMITTENT STREAM/JURISDICTIONAL DITCH

EXISTING CHANNEL TO BE RELOCATED AND TIED TO PIPE/CULVERT

PROPOSED RIGHT OF WAY

WETLANDS

LEGEND

TWH - TRADITIONALLY NAVIGABLE WATER
RNW - RELATIVELY PERMANENT WATER
RNWP - NON-RELATED PERMANENT WATER
Wetlands - DENOTES WETLAND UNITS
- - - DENOTES CONSTRUCTION UNITS
- - - - DENOTES PROPERTY LINE
- - - - - DENOTES FILL
- - - - - - DENOTES TEMP. CLEAR
- - - - - - - DENOTES PERM. CLEAR
- - - - - - - - DENOTES EXCAVATION

PERMITTED PLANS

PIN 36358_RDOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 95 OF 178
PLAN & PROFILE VIEW

PLAN

HYDROLOGY DATA
DA = 5.26 SQ.MI.
Qo = 735 CFS
AREA FURNISHED UNDER EL. 84.17 = 290 S.F.
V = 3.5 FT/SEG.
Q = 903 CFS
AREA FURNISHED UNDER EL. 84.92 = 344 S.F.
V = 3.5 FT/SEG.
BACKWATER = .11

OVERTOPPING FLOOD
Q > 1366 CFS (500-YR. DISCHARGE)
PROBABILITY < 0.02

120'-0" TOTAL BRIDGE LENGTH

BENT NO.'s

PERMITTED PLANS

PERPENDICULAR TO END BENT

BARRIER NOT SHOWN FOR CLARITY

2'-0" THICK RIPRAP SLOPE PROTECTION

PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORY COUTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 95A OF 178
PLAN & PROFILE VIEW

PLAN

HYDROLOGY DATA

\[ Q_{50} = 5.36 \text{ cfs} \]

AREA FURNISHED UNDER EL. 34.17 = 603.5 S.F.

\[ V_{50} = 55 \text{ fps} \]

AREA FURNISHED UNDER EL. 34.62 = 743.8 S.F.

\[ V_{max} = 1.3 \text{ fps} \]

BACKWATER = 41'

OVERTOPPING FLOOD

\[ D = 5500 \text{ cfs (SEC+RIR DISPATCHING) PROBABILITY < 0.02} \]

320'-0" TOTAL BRIDGE LENGTH

PROFILE

5-5

PERMITTED PLANS

BENT NO.'s

Barrier not shown for clarity

2'-0" thick riprap slope protection perpendicular to end bent

PIN 36356_RCOI

PROPOSED INTERSTATE 73

MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.

APPLICATION BY SCDOT

FEDERAL FUNDS TO BE USED

DATE 06/06/2016

SHEET 95B OF 178
PLAN VIEW

EXISTING CHANNEL TO BE RELOCATED AND TIED TO PIPE/CULVERT

BOTTOMLAND HARDWOOD WETLAND ABUTTING NR PW
0.35 ACRES FILL

NOTE: Wetland boundaries beyond corridor limits have not been verified by the USACE.

PERMITTED PLANS

CLEARCUT BAY FOREST WETLAND ABUTTING NR PW
0.273 ACRES FILL
0.028 ACRES TEMP. CLEAR (THIS SHEET)

JURISDICTIONAL DITCH
MSD 0.02 ACRES FILL

LEGEND

THW - TRADITIONALLY HABITABLE WATER
RNW - RELATIVELY PERMANENT WATER
NR PW - NON-RELATIVELY PERMANENT WATER
Wetlands - DENOTES WETLAND UNITS
- DENOTES CONSTRUCTION UNITS
- DENOTES PROPERTY LINE
- DENOTES FILL
- DENOTES TEMP. CLEAR
- DENOTES PERM. CLEAR
- DENOTES EXCAVATION

GRAPHIC SCALE 1' - 300'

PIN 36356_RDO1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCOOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 97 OF 178
PERMITTED PLANS

PIN 36358 AD01
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 98 OF 178
NOTED:
Wetland boundaries beyond corridor limits have not been verified by the USACE.

LEGEND

TRW - TRADITIONALLY VARIABLE WATER
RPW - RELATIVELY PERMANENT WATER
NPW - NON-RELATIVELY PERMANENT WATER

- WETLANDS - DENOTES WETLAND UNITS
- - CONSTRUCTION UNITS
- - PROPERTY LINE
- - FILL
- - TEMP. CLEAR
- - PERMANENT CLEAR
- - EXCAVATION

CLEARCUT BAY FOREST/BAY FOREST
WETLAND ABUTTING RPW
13.20 ACRES FILL
10.20 ACRES TEMP. CLEAR (THIS SHEET)

PERMITTED PLANS

PIN 36358_RDOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 101 OF 178
SECTION SS-SS

PERMITTED PLANS

PIN 36358-RDC1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 104 OF 178
EXISTING CHANNEL TO BE RELOCATED AND TIED TO PIPE/CULVERT

NON-JURISDICTIONAL DITCH
NON-REGULATED ISOLATED WATER

PERMITTED PLANS

LEGEND

TIM - TRADITIONALLY VARIABLE WATER
NRPW - NON-RELATIVELY PERMANENT WATER
NRWP - NON-RELATIVELY PERMANENT WATER
Wetlands - DENOTES WETLAND UNITS

DENOTES CONSTRUCTION LIMITS
DENOTES PROPERTY LINE
DENOTES FILL
DENOTES TEM. CLEAR
DENOTES PERM. CLEAR
DENOTES EXCAVATION

PIEES TO MAINTAIN FLOW

BOTTOMLAND HARDWOOD/NON-JURISDICTIONAL DITCH
NON-REGULATED ISOLATED WATER

1.77 ACRES FILL
0.12 ACRES TEMP. CLEAR

NOTES

Wetland boundaries beyond corridor limits have not been verified by the USACE.

PIN 36358_RDO1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 106 OF 178
CROSS SECTION

NOTE: WETLAND UNITS EXTEND BEYOND CORRIDOR UNITS

SECTION UV-UV

PERMITTED PLANS

PIN 36358_RDO1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 109 OF 118
PLAN & PROFILE VIEW

4214+00 4215+00 4216+00 4217+00 4218+00 4219+00 4220+00

Back Swamp

PLAN

HYDROLOGY DATA
D.A. = 5.720 SQ. M., Qo = 68.0 CFS.
AREA FURNISHED UNDER EL 44.4 = 502.11 S.F.
V0 = 6.1 FT/SEC.
Q0 = 720 CFS.
AREA FURNISHED UNDER EL 45.4 = 703.41 S.F.
V0 = 0.8 FT/SEC.
BACKWATER0 = 0.0'
OVERTOPPING FLOOD
PROBABILITY: N/A

PROFILE

240'-0" TOTAL BRIDGE LENGTH

BENT NO.'s

1 2 3 4 5 6

PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 110A OF 178
PLAN & PROFILE VIEW

EXISTING BRIDGE

Little Pee Dee River Swamp

PLAN

540'-0" TOTAL BRIDGE LENGTH

BENT NO.'S

1 2'-0" THICK RIPRAP SLOPE PROTECTION PERPENDICULAR TO END BENT

PERMITTED PLANS

PROFILE

7-7

HISTOLOGY DATA

AREA FURNISHED UNDER EL 45.10 = 3609.4Y S.F.

V효. = 2.7 F.T.I.S.

Q efficiencies = 0.87

AREA FURNISHED UNDER EL 45.00 = 4077.42 S.F.

V효. = 2.8 F.T.I.S.

BACKWATER = 0.3'

OVERTOPPING FLOOD

Q: N/A

PROBABILITY: N/A

PIN 36358-R001

PROPOSED INTERSTATE 73

MARLBORO, DILLON, MARION AND

HORRY COUNTIES, S.C.

APPLICATION BY SCDOT

FEDERAL FUNDS TO BE USED

DATE: 06/06/2016

SHEET 113A OF 178
PLAN & PROFILE VIEW

4277+00 4278+00 4279+00 4280+00 4281+00 4282+00 4283+00 4284+00 4285+00

PLAN

1.053'-0" TOTAL BRIDGE LENGTH
UNIT 1 (5 SPANS @ 117'-0" = 586'-0")

PROFILE

8 - 8

PERMITTED PLANS

HYDROLOGY DATA

D.A. = 2,750 SQ. M.

Q_a = 24,000 CFS

AREA FURNISHED UNDER EL 45.1 = 7,653 S.F.

V_a = 6.0 FT/SEC.

Q_a = 26,416 CFS

AREA FURNISHED UNDER EL 45.6 = 8,035 S.F.

V_a = 6.1 FT/SEC.

BACKWATER_a = 0.2'

OVERTOPPING FLOOD

Q = N.A. CFS (500-YR. DISCHARGE)

PROBABILITY = N.A.
PERMITTED PLANS

PLAN & PROFILE VIEW

HYDROLOGY DATA

\[ Q_{100} = 24,266 \text{ CFS} \]

\[ Q_{500} = 26,416 \text{ CFS} \]

\[ V_{50} = 5.0 \text{ FT/SEC.} \]

\[ V_{100} = 6.1 \text{ FT/SEC.} \]

\[ H_{B} = 0.2' \]

OVERTOPPING FLOOD

\[ Q > \text{NA CFS (500-YR DISCHARGE)} \]

\[ \text{PROBABILITY < NA} \]

PERMITTED PLANS

PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 1158 OF 178
CROSS SECTION

NOTE:
WETLAND LIMITS EXTEND
BEYOND CORRIDOR LIMITS.

SECTION ZZ-ZZ

PERMITTED PLANS

PIN 36358-ROO1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 118 OF 178

DE Container EXISTING
GROUND LINE

DENOTES FILL
PLAN VIEW

MATCHLINE SHEET 121

GROUND LEVEL HARDWOOD WETLAND ADJACENT TO RPW
H10 1024 FT 100' 3.64 ACRES FILL
0.14 ACRES TEMP. CLEAR
0.33 ACRES PERMANENT CLEAR

WOODED SWAMP/FRESHWATER MARSH WETLAND ABUTTING TRW
H14 1024 FT 100' 4.86 ACRES FILL
0.29 ACRES TEMP. CLEAR

NOTE: Wetland boundaries beyond perimeter limits have not been verified by the USACE.

LEGEND

TRW - TRADITIONALLY NAVIGABLE WATER
RPW - RELATIVELY PERMANENT WATER
NWP - NON-RELATIVELY PERMANENT WATER
Wetlands - DENOTES WETLAND UNITS
 --- --- DENOTES CONSTRUCTION UNITS
- - - - DENOTES PROPERTY LINE
- - - - DENOTES FILL
- - - - DENOTES TEMP. CLEAR
- - - - DENOTES PERMANENT CLEAR
- - - - DENOTES EXCAVATION

PIN 36358 RDOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 119 OF 178
PLAN & PROFILE VIEW

PLAN & PROFILE VIEW

4336+00 4337+00 4338+00 4339+00 4340+00 4341+00 4342+00

BLACK CREEK

PLAN

HYDROLOGY DATA
D.A. = 2,730 SQ. M.
Q90 = 1,563 CFS
AREA FURNISHED UNDER EL. 45.10 = 1,572.46 S.F.
V90 = 1.5 FT/SEC.
Q100 = 1,664 CFS
AREA FURNISHED UNDER EL. 46.10 = 1,469.63 S.F.
V100 = 1.9 FT/SEC.
BACKWATER H0 = 1.0' OVERTOPPING FLOOD
USN PROBABILITY: NA

PERMITTED PLANS

1 2'-0" THICK RIPRAP SLOPE PROTECTION PERPENDICULAR TO END BENT

BENT NO.'S

4336+00

4339+00

PROFILE

9 - 9

PIN 36358_RD01
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 1/8A OF 178
CROSS SECTION

SECTION AAA-AAA

PERMITTED PLANS

PIN 36358_RD01
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 120 OF 178
CROSS SECTION

SECTION BBB-BBB

PERMITTED PLANS

PIN 36358_RDO1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 122 OF 178

GRAPHIC SCALE 1" = 50' HORIZ.
PERMITTED PLANS

SECTION CCC-CCC

DENOTES EXISTING GROUND LINE
DENOTES FILL
DENOTES EXCAVATION

PIN 36358_R001
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 123 OF 178

GRAPHIC SCALE 1" = 50' HORIZ.
PERMITTED PLANS

NOTE:

Legend:

- **TXN** - Traditionally Navigable Water
- **RPW** - Relatively Permanent Water
- **HPPW** - High-Relatively Permanent Water
- **Wetlands** - Denotes Wetland Limits
- ***** - Denotes Construction Units
- **_** - Denotes Permanent Line
- **** - Denotes Fill
- **+** - Denotes Temp. Clear
- **@** - Denotes Perch Clear
- **** - Denotes Excavation

PIN 36358_R001
PROPOSED INTERSTATE T3
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/05/2016
SHEET 124 OF 178
PERMITTED PLANS

PIN 36358_RDC1
PROPOSED INTERSTATE T3
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 127 OF 178
NOTE: WETLAND UNITS EXTEND BEYOND CORRIDOR UNITS

SECTION FEE-FEE

PERMITTED PLANS

PIN 36358-ROO1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 129 OF 178
CROSS SECTION

NOTE:
WETLAND UNITS EXTEND
BEYOND CORRIDOR UNITS

SECTION HHH-HHH

PERMITTED PLANS

GRAPHIC SCALE 1" = 50' HORIZ.
CROSS SECTION

NOTE:
WETLAND UNITS EXTEND BEYOND CORRIDOR UNITS

SECTION III-III

PERMITTED PLANS

PIN 36358...RDOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 134 OF 178

DENOTES EXISTING
GROUND LINE

DENOTES FILL

GRAPHIC SCALE 1" = 50' HORIZ.
CROSS SECTION

SECTION JJJ-JJJ

PERMITTED PLANS

PIN 36358_RDOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 135 OF 178

NOTE: WETLAND LIMITS EXTEND BEYOND CORNER LIMITS

DENOTES EXISTING GROUND LINE
DENOTES FILL
DENOTES EXCAVATION

GRAPHIC SCALE 1" = 50' HORIZ.
PLAN & PROFILE VIEW

PLAN

4575+00 4576+00 4577+00 4578+00 4579+00 4580+00

LAKE SWAMP

LAKE SWAMP

EXISTING S. NICHOLS HWY.

PERMITTED PLANS

PROFILE

10 - 10

PERPENDICULAR TO INTERSTATE ROUTE I-73
WATER EL. 38.0 OBSERVED ON 11-19-08

HYDROLOGY DATA
D.A. = 147.52 SQ. M.
Q_{in} = 4270 CFS
AREA FURNISHED UNDER EL. 43.82 = 1331 FT.
V_{in} = 3.4 FT/SEC.
Q_{out} = 9133 CYS
AREA FURNISHED UNDER EL. 46.01 = 1330 FT.
V_{out} = 3.7 FT/SEC.
BACKWATER = 1.84'

OVERTOPPING FLOOD
Q > 7111 CFS (APOX. DISCHARGE)
PROBABILITY < 3.02

100
75
50
25
0

PROPOSED TINISHING GRADE

PROPOSED TINISHING GRADE

BENT NO.'S

PIN 36358_RCOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 136A OF 178
PLAN & PROFILE VIEW

PLAN

HYDROLOGY DATA
D.A. = 147.50 SQ. M
Q_m = 614 CFS
AREA FURNISHED UNDER EL. 43.00 = 615 S.F.
V_m = 1.3 FT/SEC.
Q_100 = 1100 CFS
AREA FURNISHED UNDER EL. 44.61 = 733 S.F.
V_100 = 1.5 FT/SEC.
BACKWATER_100 = 0.54

OVERTOPPING FLOOD
Q > 2220 CFS (500-YR. DISCHARGE)
PROBABILITY < 0.02

1. PERPENDICULAR TO INTERSTATE ROUTE I-73
2. WATER EL. 38.0 OBSERVED ON 11-19-08

PERMITTED PLANS

PROFILE 11 - 11

PIN 36358_R001
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.
APPLICATION TO SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 138A OF 178
PIN 36358_RDO
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 141 OF 178
CROSS SECTION

Note:
WETLAND UNITS EXTEND BEYOND CORRIDOR LIMITS

PERMITTED PLANS

SECTION 000-000

PIN 36358 PDCI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 144 OF 178

GRAPHIC SCALE 1'= 50' HORIZ.
PERMITTED PLANS

EXISTING CHANNEL TO BE RELOCATED AND TIED TO PIPE/CULVERT

PINE WET FLATWOODS/
JURISDICTIONAL DITCH
WETLAND ABUTTING HARPW.
H49
0.69 ACRES FILL
0.06 ACRES TEMP. CLEAR

PIPES TO MAINTAIN FLOW

DITCHED BOTTOMLAND HARDWOOD
WETLAND ABUTTING RPP
H46 (NR SIL 3D
1.03 ACRES FILL
0.01 ACRES TEMP.CLEAR

NOTES:
Wetland boundaries beyond corridor limits
have not been verified by the USACE.

LEGEND
TWW - TRADITIONALLY NAVIGABLE WATER
RWP - RELATIVELY PERMANENT WATER
HARPW - NON-RELATIVELY PERMANENT WATER
Wetlands - DENOTES WETLAND UNITS
- - - DENOTES CONSTRUCTION LIMITS
- - - DENOTES PROPERTY LINE
- - - DENOTES FILL
- - - DENOTES TEMP. CLEAR
- - - DENOTES PERM. CLEAR
- - - DENOTES EXCAVATION

REVISED: 07/01/2016
PIN 36358-PDD1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCOOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 147 OF 178
CROSS SECTION

SECTION SSS-SSS

PERMITTED PLANS

NOTE: WETLAND UNITS EXTEND BEYOND CORRIDOR UNITS

PIN 36358.001
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 149 OF 178

DENOTES EXISTING GROUND LINE
DENOTES FILM

GRAPHIC SCALE 1" = 50' HORIZ.
PARTLY CLEAR CUT
REPLANTED PINE WET FLATWOOD
WETLAND ABUTTING RPM
HS5 (PIN SN 30)
5.59 ACRES FILL
1.25 ACRES TEMP. CLEAR

PINE WET FLATWOOD
WETLAND ABUTTING RPM
HS5
0.26 ACRES FILL
0.03 ACRES TEMP. CLEAR

INTERMITTENT STREAM
HS5 (PIN SN 20)
0.03 ACRES TEMP. FILL
340 LINEAR FEET

EXISTING CHANNEL
TO BE RELOCATED
AND TIED TO PIPE/CULVERT

PROPOSED RIGHT OF WAY

BOTTOMLAND HARDWOOD
WETLAND ABUTTING RPM
HS6
0.04 ACRES FILL
0.37 ACRES TEMP. CLEAR

NOTES:
Wetland boundaries beyond corridor limits
have not been verified by the USACE.

LEGEND

TWH - TRADITIONALLY HABITABLE WATER
RPM - RELATIVELY PERMANENT WATER
RNP - NON-RELATED PERMANENT WATER
Wetlands - DENOTES WETLAND UNITS
CONSTRUCTION UNITS
PROPERTY LINE
DENOTES FILL
DENOTES TEMP. CLEAR
DENOTES PERM. CLEAR
DENOTES EXCAVATION

PIN 36358_RDOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 152 OF 178

PERMITTED PLANS
CROSS SECTION

NOTE:
WETLAND LIMITS EXTEND BEYOND CORRIDOR UNITS

SECTION UUU-UUU

PERMITTED PLANS

PIN 36358_RDCI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 153 OF 178
CROSS SECTION

SECTION VV-VV

PERMITTED PLANS

PIN 35358-RDO1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SC DOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 154 OF 178

NOTE: WETLAND LIMITS EXTEND BEYOND CORRIDOR LIMITS
CLEARING LIMITS EXTEND BEYOND CORRIDOR

--- DENOTES EXISTING GROUND LINE
DENOTES FILL

GRAPHIC SCALE 1" = 50' HORIZ.
PLAN & PROFILE VIEW

4795+00 4796+00 4797+00 4798+00 4799+00 4800+00

JOINER SWAMP

H Y D R O L O G Y D ATA

D.A. = 2.07 SQ. M.I.
Q_{50} = 410 CFS
AREA FURNISHED UNDER EL. 60.02 = 212 S.F.
V_{50} = 2.8 FT/SEC.
Q_{100} = 790 CFS
AREA FURNISHED UNDER EL. 60.04 = 2435 S.F.
V_{100} = 3.20 FT/SEC.
BACKWATER \theta = 1.92'

OVERTOPPING FLOOD

Q > 896 CFS (500-YR. DISCHARGE)
PROBABILITY < 0.02

PERMITTED PLANS

PROFILE

12 - 12

FIN 36358_R0CI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 155A OF 178
PLAN & PROFILE VIEW

4794+00 4795+00 4796+00 4797+00 4798+00 4799+00

JOINER SWAMP

HYDROLOGY DATA

D.A. = 2.57 SQ. MI.
Q_{20} = 456 CFS
AREA FURNISHED UNDER EL 80.02 = 212 S.F.
V_{20} = 2.8 FT/SEC.
Q_{100} = 578 CFS
AREA FURNISHED UNDER EL 80.04 = 243 S.F.
V_{100} = 3.29 FT/SEC.
BACKWATER = -1.93'

OVERTOPPING FLOOD

Q > 896 CFS (500-YR. DISCHARGE)
PROBABILITY < 0.02

BENT NO.'S

PERPENDICULAR TO ABUTMENT

PERMITTED PLANS

PIN 36358_RDI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 155C OF 178
SECTION WWW-WWW

PERMITTED PLANS

PIN 36358_RCCI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 156 OF 178
PLAN & PROFILE VIEW

PLAN

PROFILE

PERMITTED PLANS

PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/05/2016
SHEET 157A OF 178
SECTION XXX-XXX

PERMITTED PLANS

PIN 36358_RDO1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 158 OF 178
PLAN

PROFILE VIEW

PLANNED AND PROFILE VIEW

125

4858+00 4859+00 4860+00 4861+00 4862+00

LOOSING SWAMP

HYDROLOGY DATA

DA = 1.51 SQ. M.
Q = 326 CFS
AREA FURNISHED UNDER EL 93.68 = 1458.4
V = 2.9 FT/SEC.
Q = 405 CFS
AREA FURNISHED UNDER EL 94.15 = 1698.4
V = 3.1 FT/SEC.
BACKWATER = 20'

OVERTOPPING FLOOD

Q > 828 CFS (500-YR. DISCHARGE)

PROBABILITY < 0.2

WATER EL. 89.1

4863+00

PERMITTED PLANS

PROFILE

16 - 16

BENT NO.'S

PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 159A OF 178
NOTE: WETLAND UNITS EXTEND BEYOND CORRIDOR LIMITS

PERMITTED PLANS

PIN 36358_RD01
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 160 OF 178
PLAN VIEW

PARTIALLY CLEARCUT & DITCHED
PINE WET FLATWOOD
(DNR SN 58)
7.37 ACRES FILL
1.27 ACRES TEMP. CLEAR
(THE SHEET)

PROPOSED RIGHT OF WAY

PROPOSED RIGHT OF WAY

SC 569 GOODUCK RD

WATERY BAY

4910

4900

4890

4590

NOTES:
- Wetland boundaries beyond corridor limits
  have not been verified by the USACE.

LEGEND
- TRADITIONALLY NAVIGABLE WATER
- RELATIVELY PERMANENT WATER
- HIGHLY RELATIVELY PERMANENT WATER
- Wetlands: - Denotes wetland limits
- Denotes construction limits
- Denotes property line
- Denotes fill
- Denotes temp. clear
- Denotes perm. clear
- Denotes excavation

PIN 36358-95D1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 161 OF 178
CROSS SECTION

SECTION ZZZ-ZZZ

PERMITTED PLANS

PIN 36358-RDCI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND Horry COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 162 OF 178
CROSS SECTION

SECTION A2-A2

PERMITTED PLANS

PIN 36358_RDO1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 165 OF 178
CROSS SECTION

PERMITTED PLANS

PIN 36358_R001
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 167 OF 178
CROSS SECTION

SECTION A4-A4

PERMITTED PLANS

PIN 36358_RDO1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 169 OF 178
PERMITTED PLANS

PIN 36358_RCOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 170 OF 178

NOTE: Wetland boundaries beyond corridor limits have not been verified by the USACE.
NOTE:
WETLAND LIMITS EXTEND BEYOND CORRIDOR LIMITS

SECTION A6-A6

PERMITTED PLANS

PIN 36358.RDC1
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 173 OF 178
CROSS SECTION

SECTION AB-AB

PERMITTED PLANS

PIN 36358_R001
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND HORRY COUNTIES, S.C.
APPLICATION BY SCDDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 177 OF 178
PLAN VIEW

PARTIALLY DITCHED PINE WET FLATWOOD
WETLAND ADJACENT TO WETLAND
640.24 ACRES FILL
11.24 ACRES TEMP. CLEAR
(THE SHEET)

Pipes to Maintain Flow

PERMITTED PLANS

NOTES:
Wetland boundaries beyond corridor limits have not been verified by the USACE.

LEGEND

TIN - TRADITIONALLY VARIABLE WATERS
RPW - RELATIVELY PERMANENT WATERS
KRW - KOMRELATIVELY PERMANENT WATER
Wetlands - DENOTES WETLAND UNITS
- - - - - DENOTES CONSTRUCTION UNITS
- - - - - DENOTES PROPERTY LINE
- - - - - DENOTES FILL
- - - - - DENOTES TEMP. CLEAR
- - - - - DENOTES PERM. CLEAR
- - - - - DENOTES EXCAVATION

PIN 36358-ROO1
PROPOSED INTERSTATE 73
MARLBOHO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 178 OF 178
PIN 36358...RDOI
PROPOSED INTERSTATE 73
MARLBORO, DILLON, MARION AND
HORRY COUNTIES, S.C.
APPLICATION BY SCDOT
FEDERAL FUNDS TO BE USED
DATE: 06/06/2016
SHEET 178A OF 178
April 26, 2017

Mr. Sean Connolly
SC Department of Transportation
955 Park St Room 506
PO Box 191
Columbia SC 29201-3959

Re: Certification in Accordance with Section 401 of the Clean Water Act, as amended, with conditions pursuant to R. 19-450 et. seq., 1976 SC Code of Laws,
Permits for Construction in Navigable Waters
Certification in Accordance with the Coastal Zone Management Program (48-39-10 et. seq., and 15 CFR 93)

SC Department of Transportation
Construction of a new-location 4-lane interstate (I-73)
Wetlands and tributaries associated with various creeks, swamps, branches and bays
Marlboro, Dillon, Marion and Horry Counties
P/N SAC 2008-01333 (Revised)

Dear Sir or Madam:

South Carolina Department of Health & Environmental Control (DHEC) has reviewed plans for this project and determined that there is a reasonable assurance that the proposed project will be conducted in a manner consistent with the Certification requirements of Section 401 of the Federal Clean Water Act, as amended, the Coastal Zone Management Program (48-39-10 et. seq., and 15 CFR 93) and the permitting requirements of R. 19-450 et. seq., 1976 SC Code of Laws.

In accordance with the provisions of Section 401, we certify that this project, subject to the indicated conditions, is consistent with applicable provisions of Section 303 of the Federal Clean Water Act, as amended. We also hereby certify that there are no applicable effluent limitations under Sections 301(b) and 302, and that there are no applicable standards under Sections 306 and 307.

This certification is subject to the following conditions:

1. The applicant must implement appropriate best management practices that will minimize erosion and migration of sediments on and off the project site during and after construction. These practices should include the use of appropriate grading and sloping techniques, mulches, silt fences, or other devices capable of preventing erosion, migration of sediments, and bank failure. All disturbed land surfaces and sloped areas affected by the project must be stabilized upon project completion.
2. Post construction stormwater must be treated using grassed swales, grass ditches, retention basins and other storm water treatment structures, as proposed.

3. Measures must be taken to prevent the spread and establishment of invasive species to the extent practicable, as proposed.

4. Appropriate containment measures must be taken to prevent pollutants such as gasoline, oil, tar, and debris and other pollutants from entering the adjacent waters or wetlands.

5. Only clean earthen material free of all potential sources of pollution must be used as fill.

6. A sufficient number of adequately sized culverts must be placed at the same elevation as the streams and wetlands to maintain flows, wetland hydrology, and unrestricted aquatic life passage.

7. During bridge construction, access to the project site must be attained from highland, from the portion of the bridge already completed ("end on end construction") or from floating barges or mats (instead of barge canals or causeways).

8. SCDOT must implement a seasonal moratorium pertaining to the shortnose sturgeon in the Little Pee Dee River, for all in-water work between February 15 and April 30 of each year. In addition, work must not impede more than 50% of the channel the rest of the year.

9. Construction activities must avoid to the greatest extent practicable, encroachment into any wetland/river bank areas not designated as impact areas.

10. In the event that any historic or cultural resources and/or archaeological materials are found during the course of work, the applicant must notify the State Historic Preservation Office and the South Carolina Institute of Archaeology and Anthropology. Historic or cultural resources consist of those sites listed in the National Register of Historic Places and those sites that are eligible for the National Register. Archaeological materials consist of any items, fifty years old or older, which were made or used by man. These items include, but are not limited to, stone projectile points (arrowheads), ceramic sherds, bricks, worked wood, bone and stone, metal and glass objects, and human skeletal materials.

11. Project impacts must be offset in accordance with the final mitigation plan involving the preservation, restoration and enhancement measures of the Gunters Island site. Protection of this site will be provided through the SCDNR Heritage Preserve program. Any modifications to this plan must be approved by SCDHEC and the USACE.
DHEC reserves the right to impose additional conditions on this Certification to respond to unforeseen, specific problems that may arise and to take any enforcement action necessary to ensure compliance with State water quality standards.

Sincerely,

[Signature]

Heather Preston, Director
Division of Water Quality
Bureau of Water

cc: U.S. Army Corps of Engineers,
Charleston District Office
Environmental Affairs District Offices - Marlboro, Dillon, Marion and Horry Counties