

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
Water Quality Certification and Wetlands Section
2600 Bull Street
Columbia, South Carolina 29201

REGULATORY DIVISION

Refer to: P/N SAC-2017-00184

December 12, 2018

Pursuant to Sections 401 and 404 of the Clean Water Act (33 U.S.C. 1341), an application has been submitted to the Department of the Army and the S.C. Department of Health and Environmental Control by

South Carolina Department of Transportation (SCDOT)
Ms. Ann-Marie Altman
955 Park Street
Columbia, South Carolina 29201

for a permit to reconstruct and widen the existing Interstate Highway 85 (I-85), from mile marker 98 to mile marker 106, and to revise Interstate access at Exits 100, 102, 104, and 106 in

Wetlands associated with and unnamed tributaries to the Broad River, Buffalo Creek, Bee Branch, and Mill Creek

along the existing I-85, approximately from mile marker 98 to mile marker 106, in Cherokee County, South Carolina, to the South Carolina/North Carolina border, extending slightly into Cleveland County, North Carolina (From: Latitude: 35.1183 °N, Longitude: 81.5758 °W to Latitude: 35.1684 °N, Longitude: 81.4406 °W), Blacksburg South, Blacksburg North, and Grover Quads.

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 the **Corps** until

15 Days from the Date of this Notice,

and **SCDHEC** will receive written statements regarding the proposed work 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 reconstructing and widening the existing I-85, from mile

marker 98 to mile marker 106, and revising Interstate access at Exits 100, 102, 104, and 106. In detail, the applicant proposes to widen I-85 by adding an additional travel lane toward the median in both the northbound and southbound directions. The applicant proposes minor work beyond existing shoulder of the Interstate for clear zones. The proposed project would also include replacing and reconfiguring Exits 100, 102, 104, and 106 and their respective bridges, as well as eliminating frontage roads and business access points from the interchange ramps, realigning to meet design criteria. The total proposed impacts to waters of the United States associated with the project would include 4,182.03 linear feet of stream and 0.304 acre of freshwater wetlands. The Corps has completed a jurisdictional determination for most of the project area, however some areas which the Corps has not yet reviewed have since been added to the project area. The applicant has proposed to mitigate for impacts to wetlands and/or waters of the United States utilizing a permittee-responsible mitigation plan which would include restoration and preservation on phase II of the Gilkey Creek Tract, and preservation on Rolling Broad Farm Tract. Gilkey Creek Tract Phase II and Rolling Broad Farm Tract are both located in Cherokee County, South Carolina, and are approximately 148 acres and 339 acres in size, respectively. The Corps has not finalized a jurisdictional determination for either tract. The project purpose as stated by the applicant is "to improve the operational efficiency of I-85 and correct geometric deficiencies along the various interchanges and overpasses by bringing them into compliance with current state and federal design standards. The secondary purpose of the project is to enhance the safety along the existing facilities."

**NOTE: This public notice and associated plans are available on the Corps' website at:
<http://www.sac.usace.army.mil/Missions/Regulatory/PublicNotices> .**

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. This activity may also require evaluation for compliance with the S. C. Construction in Navigable Waters Permit Program. State review, permitting and certification is conducted by the S. C. Department of Health and Environmental Control. 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.

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 4,182.03 linear feet of stream and 0.304 acre of freshwater wetlands well inland of estuarine substrates and emergent wetlands utilized by various life stages of species comprising the shrimp, and snapper-grouper management complexes. The District Engineer's 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). The District Engineer's final determination relative to project impacts and the need for mitigation measures is subject to review by and coordination with the NMFS.

Pursuant to the Section 7 of the Endangered Species Act of 1973 (as amended), the Corps has reviewed the project area, examined all information provided by the applicant, and the District Engineer has determined, based on the most recently available information 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 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 Programmatic Agreement among the Federal Highway Administration (FHWA), the U.S. Army Corps of Engineers, Charleston District (Corps), the South Carolina Department of Transportation (SC DOT), the South Carolina State Historic Preservation Officer (SHPO) and the Advisory Council on Historic Preservation (ACHP) regarding Section 106 implementation for Federal-Aid Transportation Projects in the State of South Carolina, FHWA is the Lead Federal Agency for this undertaking. FHWA has determined that there are historic properties present, but they will not be affected; therefore, there will be no effect on historic properties. To ensure that other historic properties 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 and any other interested parties to provide any information they may have with regard to historic properties.

The District Engineer's final eligibility and effect determination will be based upon coordination with the SHPO and/or THPO, as appropriate and required and with full consideration given to the proposed undertaking's potential direct and indirect effects on historic properties within the Corps-identified permit area.

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. 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 cannot undertake to adjudicate rival claims.

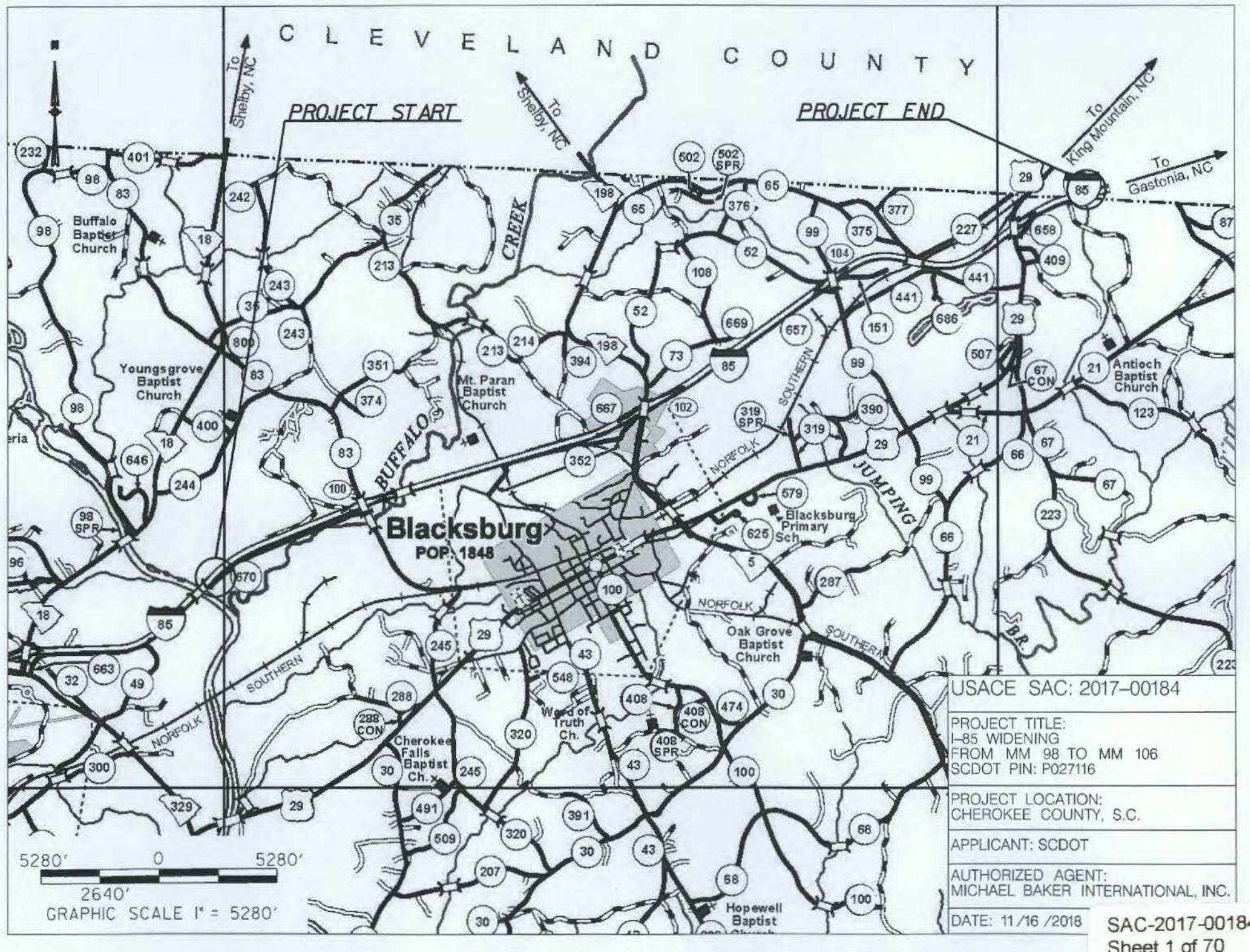
The Corps is soliciting comments from the public; Federal, state, and local agencies and officials; Indian Tribes; and other interested parties in order to consider and evaluate the impacts of this activity. Any comments received will be considered by the Corps to determine whether to issue, modify, 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

December 12, 2018

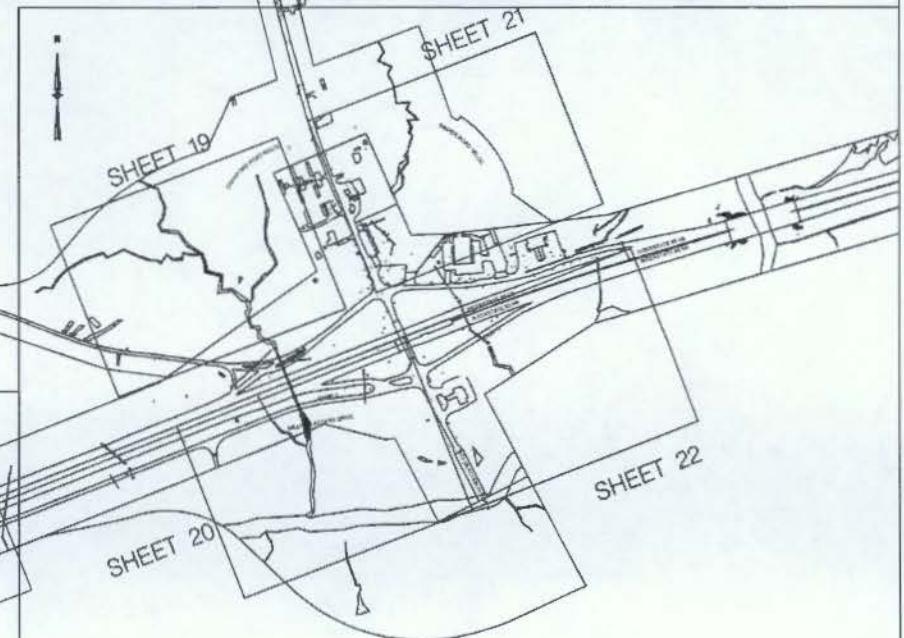
preparation of an Environmental Assessment and/or an Environmental Impact Statement pursuant to the National Environmental Policy Act. Comments are also used to determine the need for a public hearing and to determine the overall public interest of the activity. **Please submit comments in writing, identifying the project of interest by public notice number, to the following address:**

**U.S. Army Corps of Engineers
ATTN: Laura Boos
1835 Assembly Street, Room 865 B-1
Columbia, South Carolina 29201**

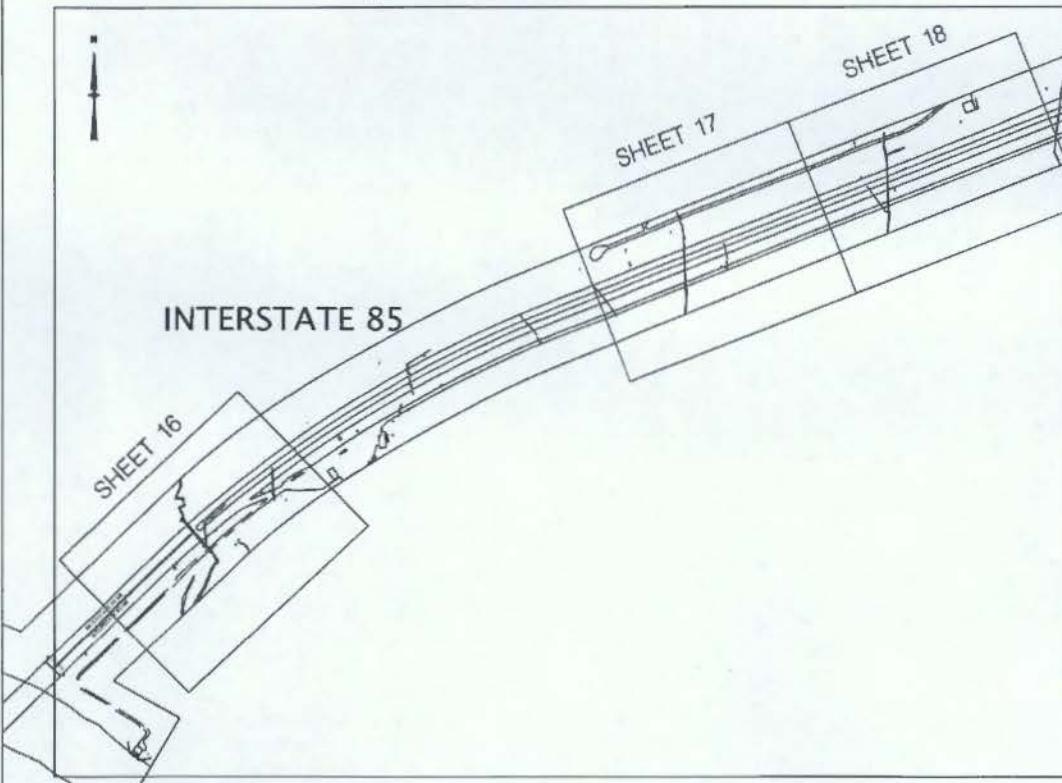
If there are any questions concerning this public notice, please contact Laura M. Boos Project Manager, at (803) 253-3902.



SHEET 8



SHEET 7



960' 0 960'
480'
GRAPHIC SCALE 1" = 960'

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

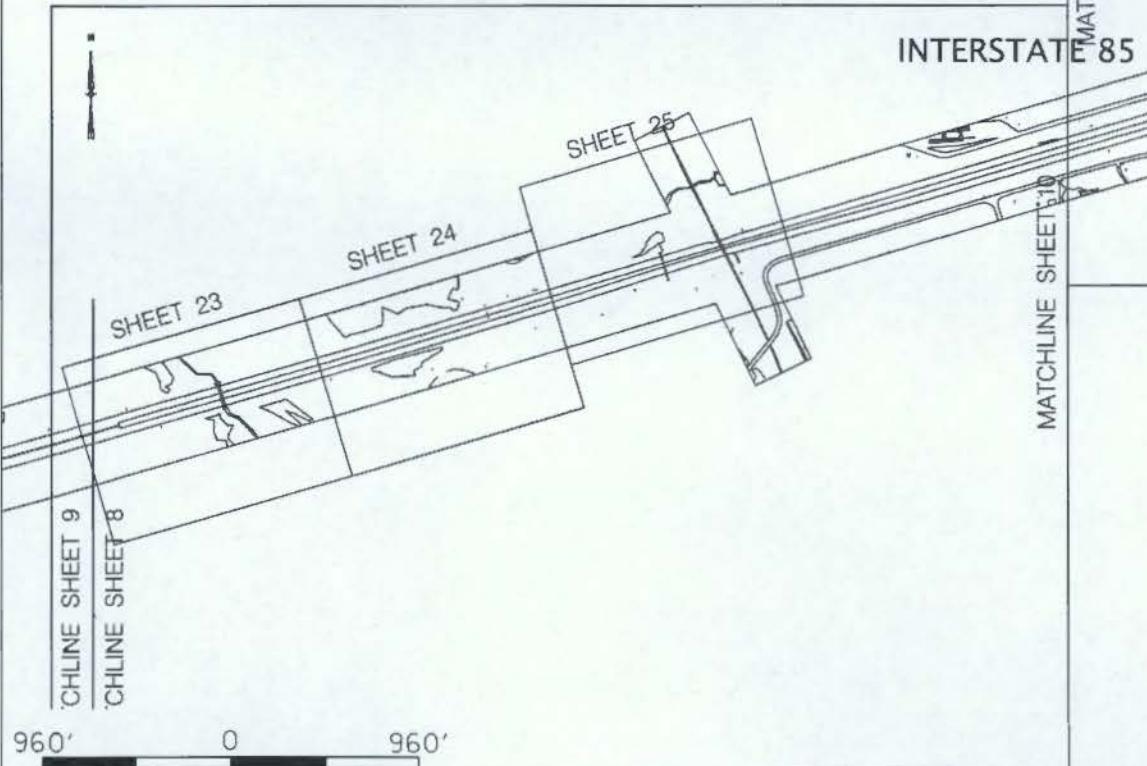
AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

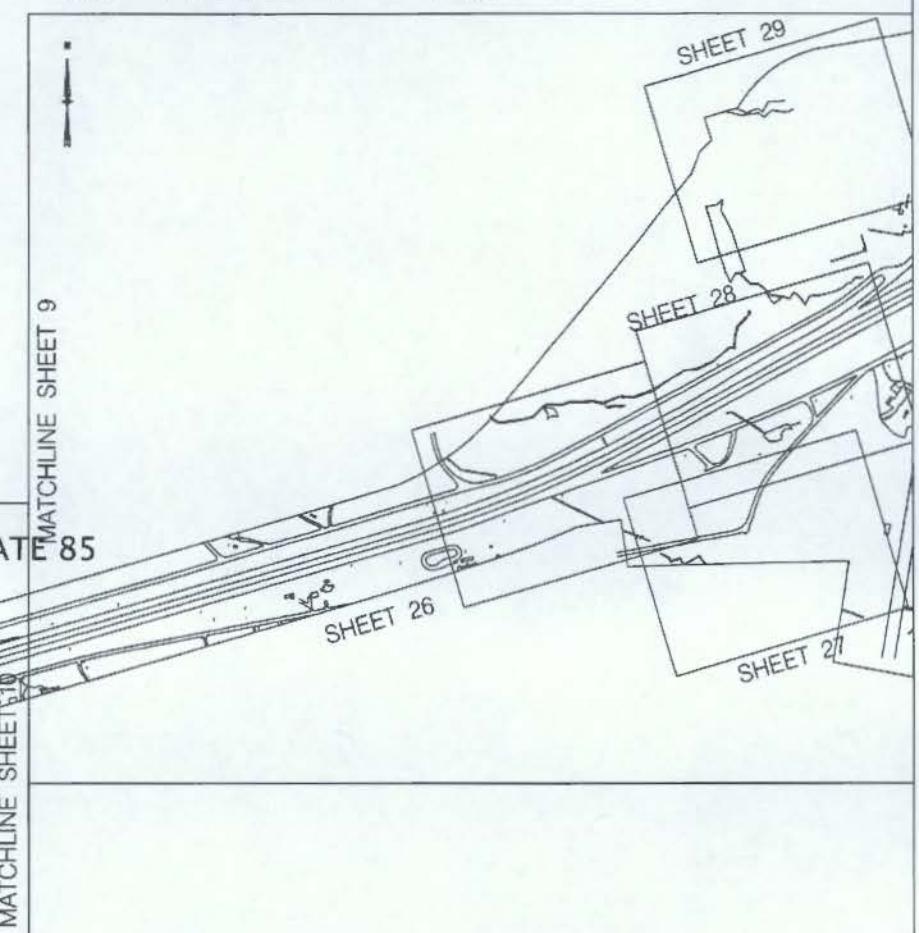
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SHEET 9



SHEET 10



USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

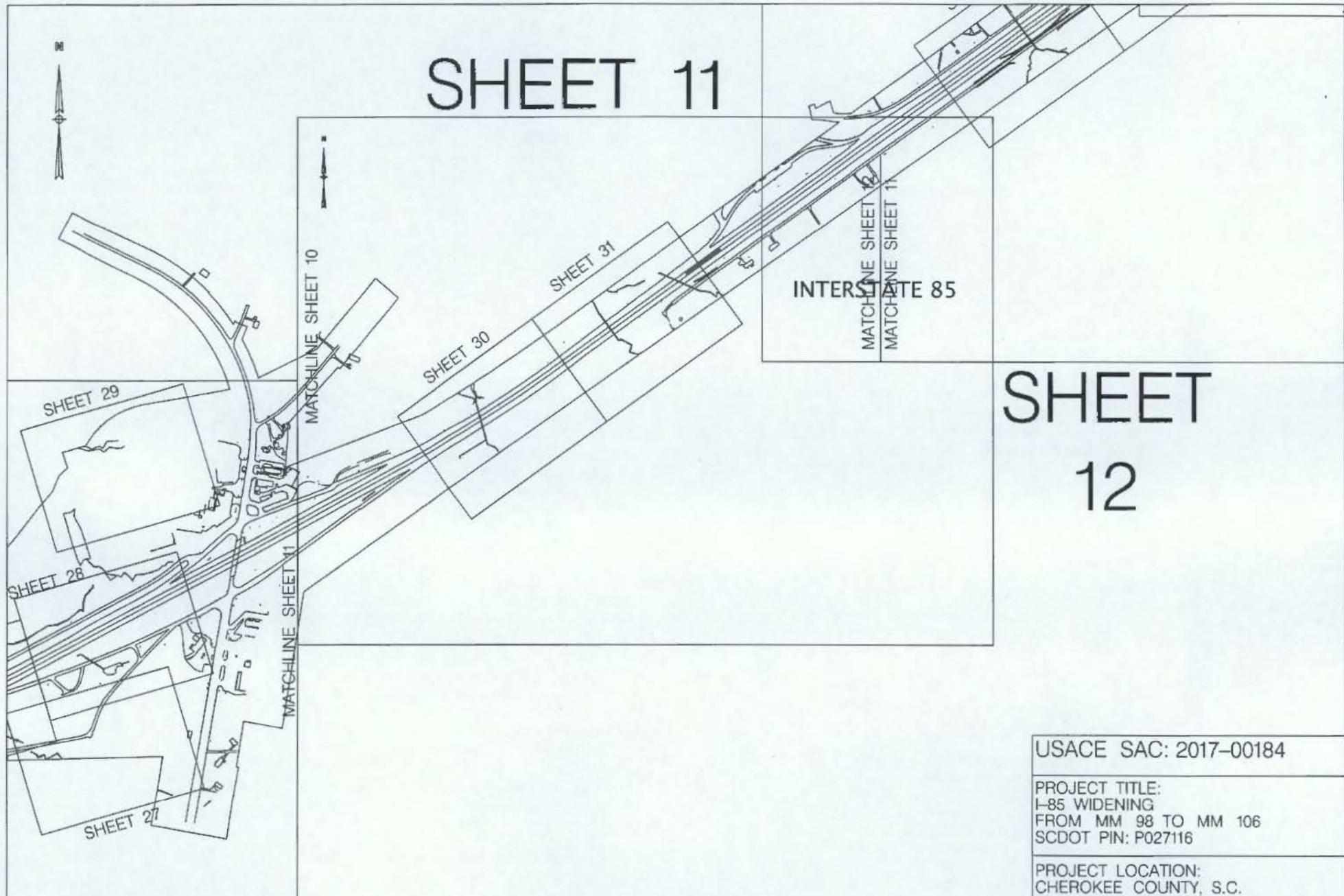
PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018 SAC-2017-00184
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SHEET 11



960' 0 960'

480'
GRAPHIC SCALE 1" = 960'

SHEET 12

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

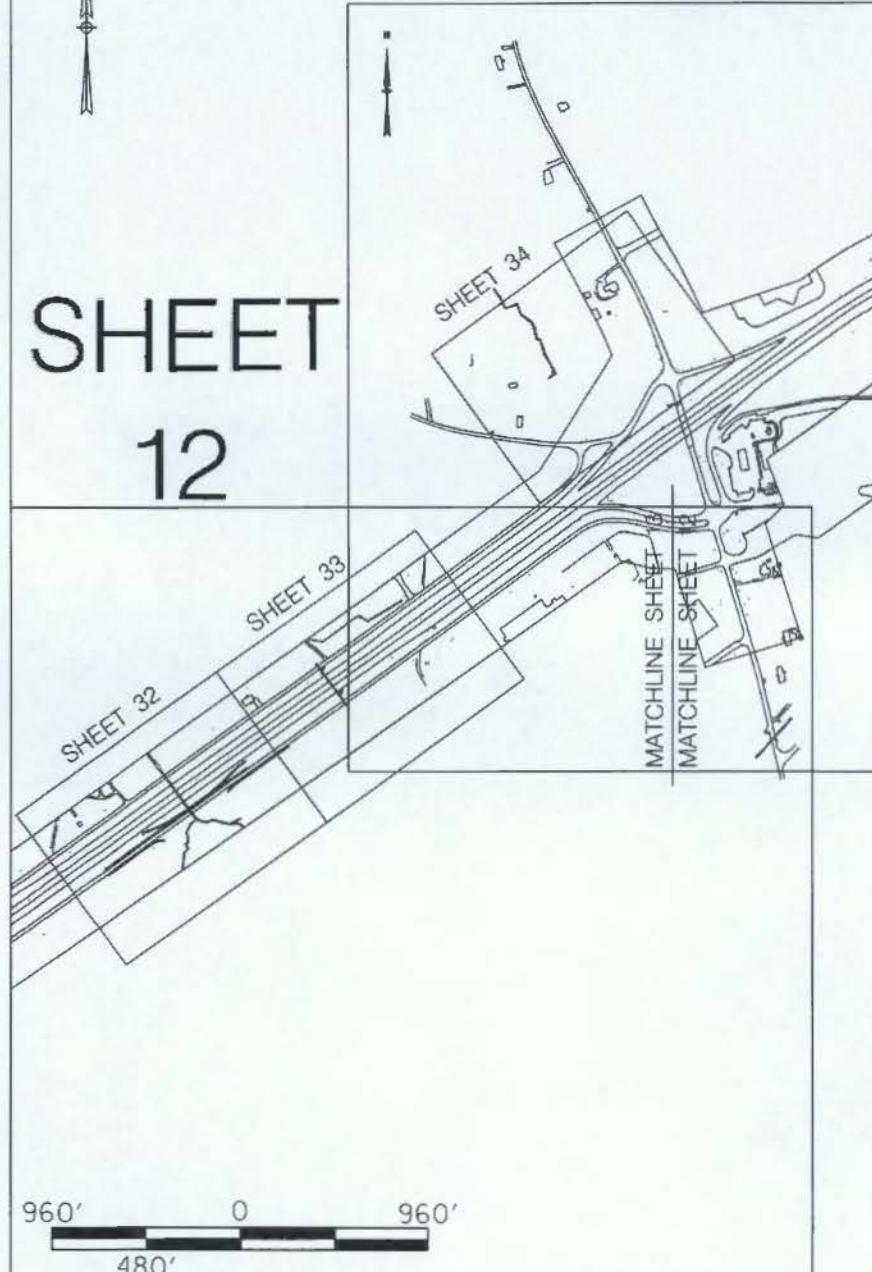
DATE: 11/16/2018

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SHEET 13

SHEET
12



960' 0 960'
480'
GRAPHIC SCALE 1" = 960'

INTERSTATE 85

MATCHLINE SHEET 13
MATCHLINE SHEET 35

SHEET 14

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

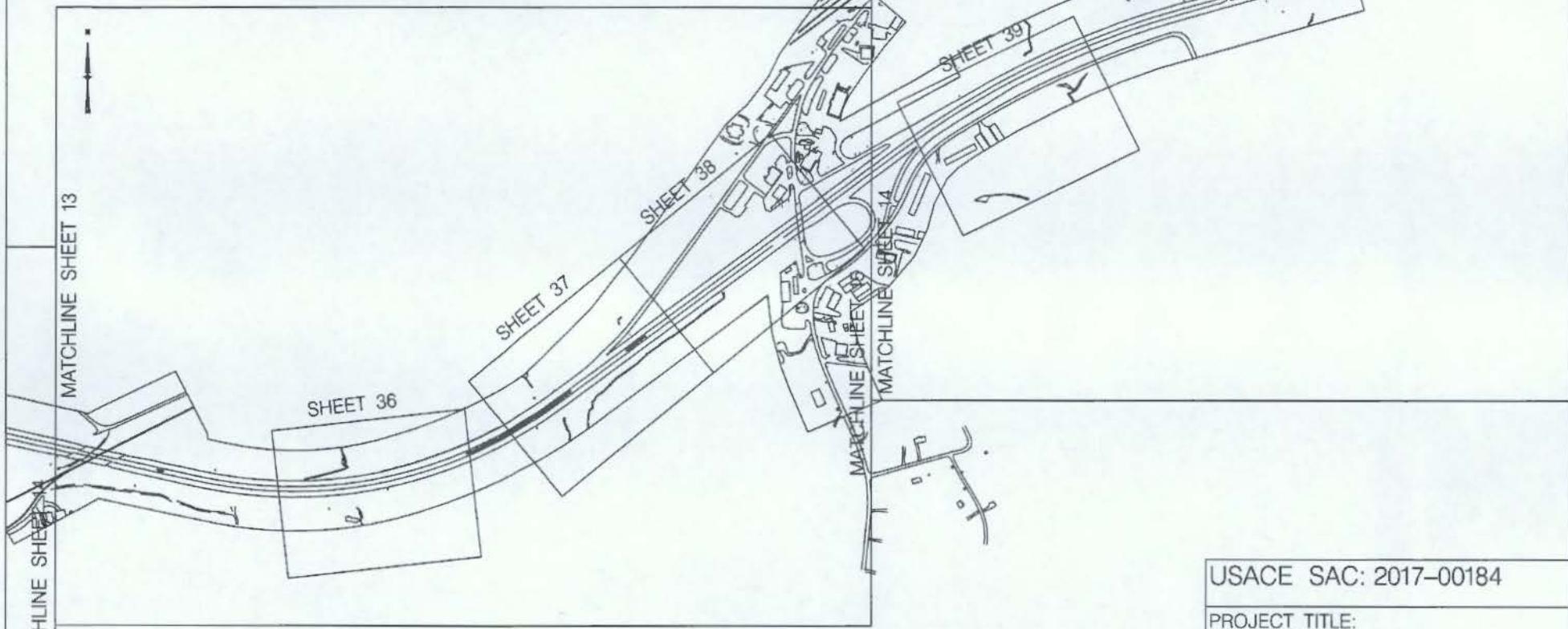
SAC-2017-00184

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SHEET 15

INTERSTATE 85

SHEET 14



960' 0 960'
480'
GRAPHIC SCALE 1" = 960'

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

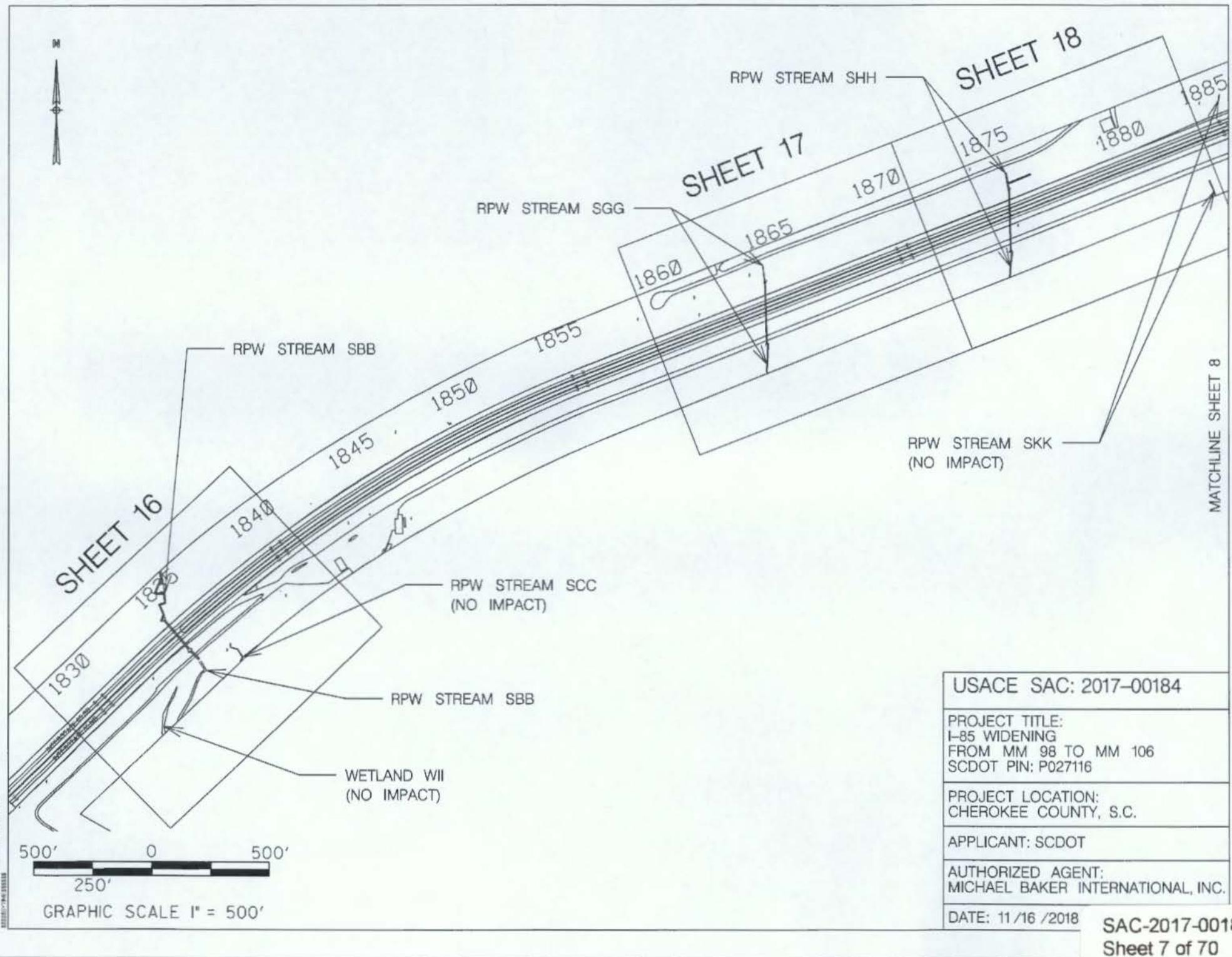
AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

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N



USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

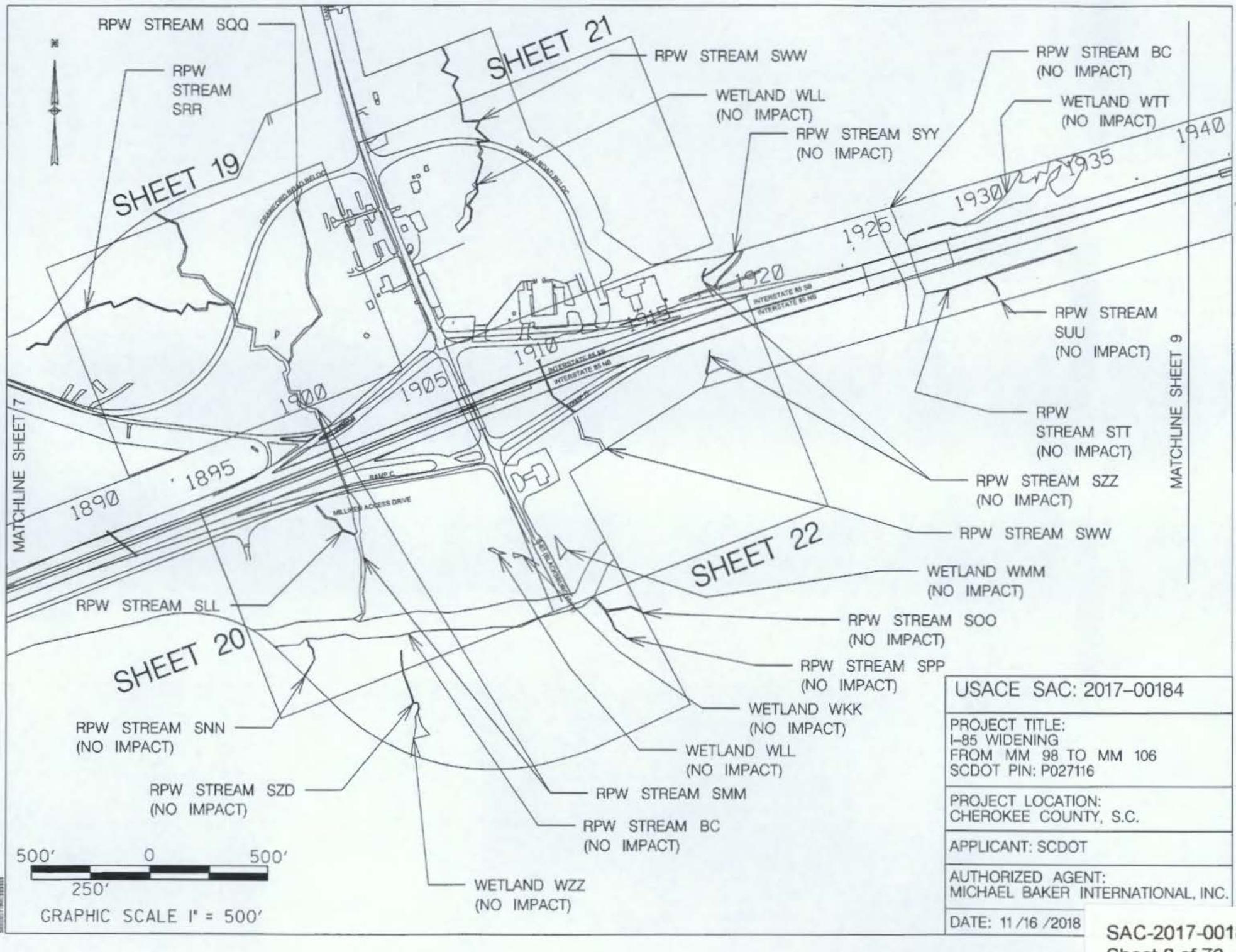
APPLICANT: SCDOT

AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

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USACE SAC: 2017-00184

PROJECT TITLE:
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FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

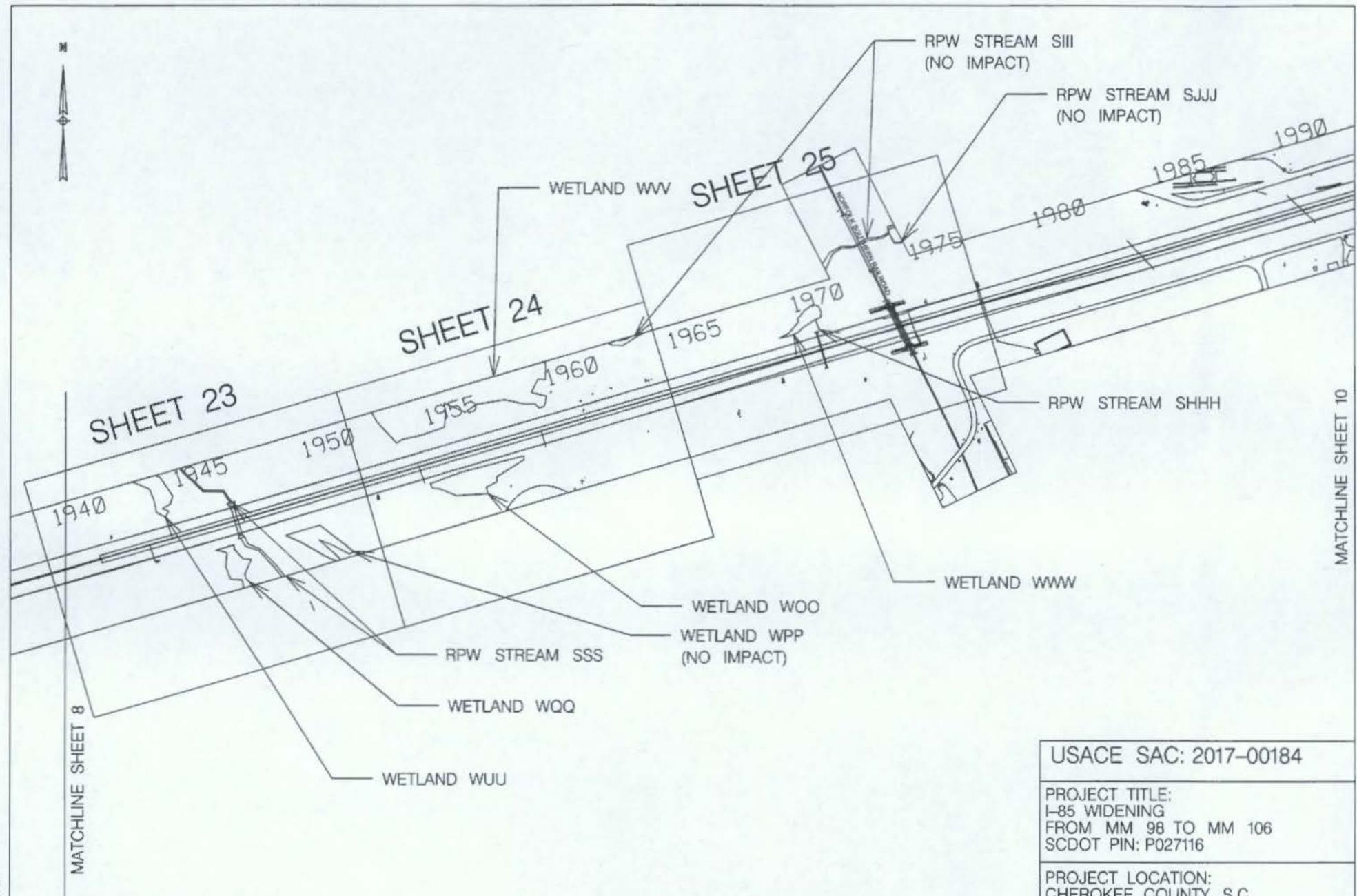
APPLICANT: SCDOT

AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

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500' 0 500'
 250'

GRAPHIC SCALE 1" = 500'

USACE SAC: 2017-00184

PROJECT TITLE:
 I-85 WIDENING
 FROM MM 98 TO MM 106
 SCDOT PIN: P027116

PROJECT LOCATION:
 CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

AUTHORIZED AGENT:
 MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018 SAC-2017-00184
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USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

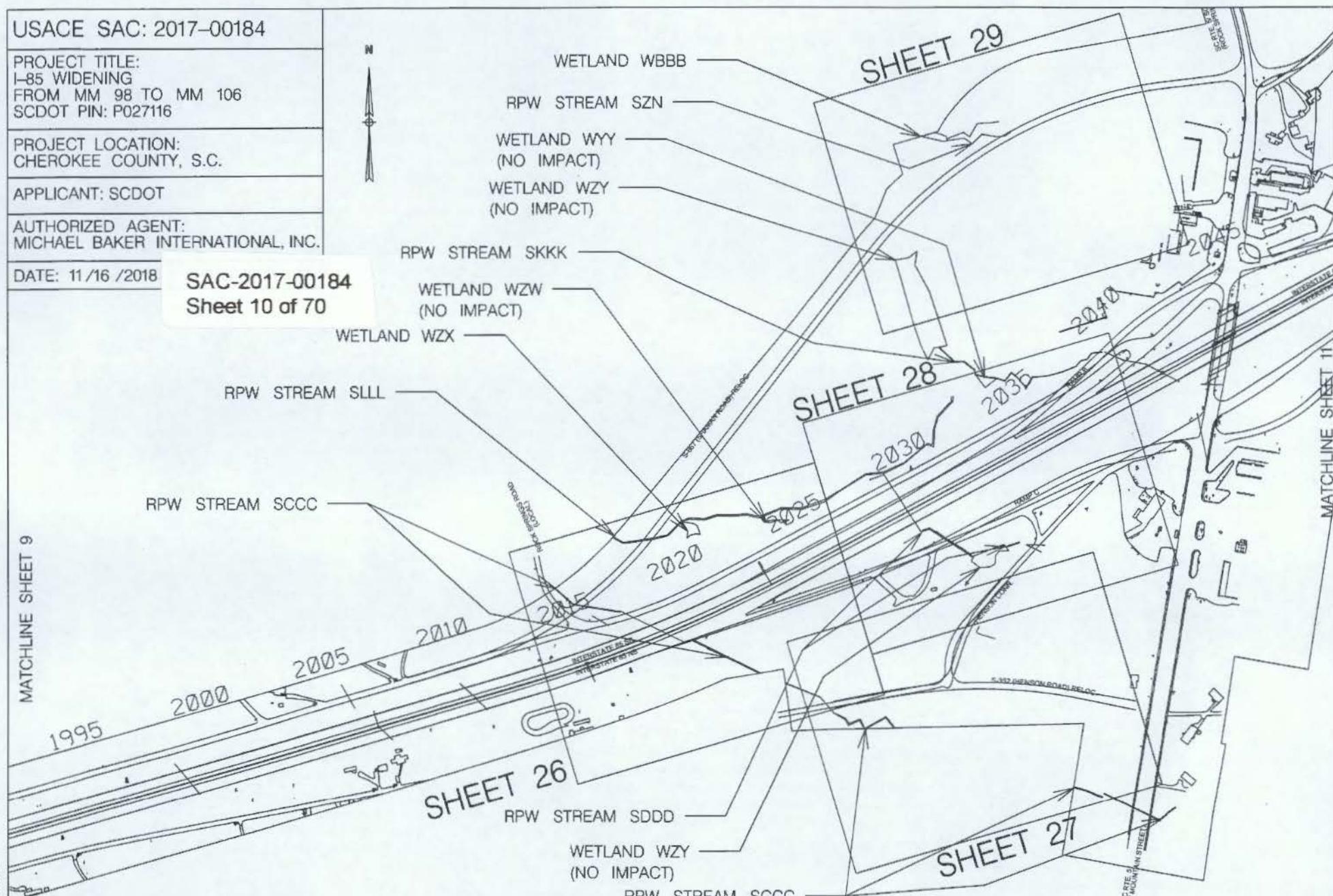
AUTHORIZED AGENT:
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DATE: 11/16/2018

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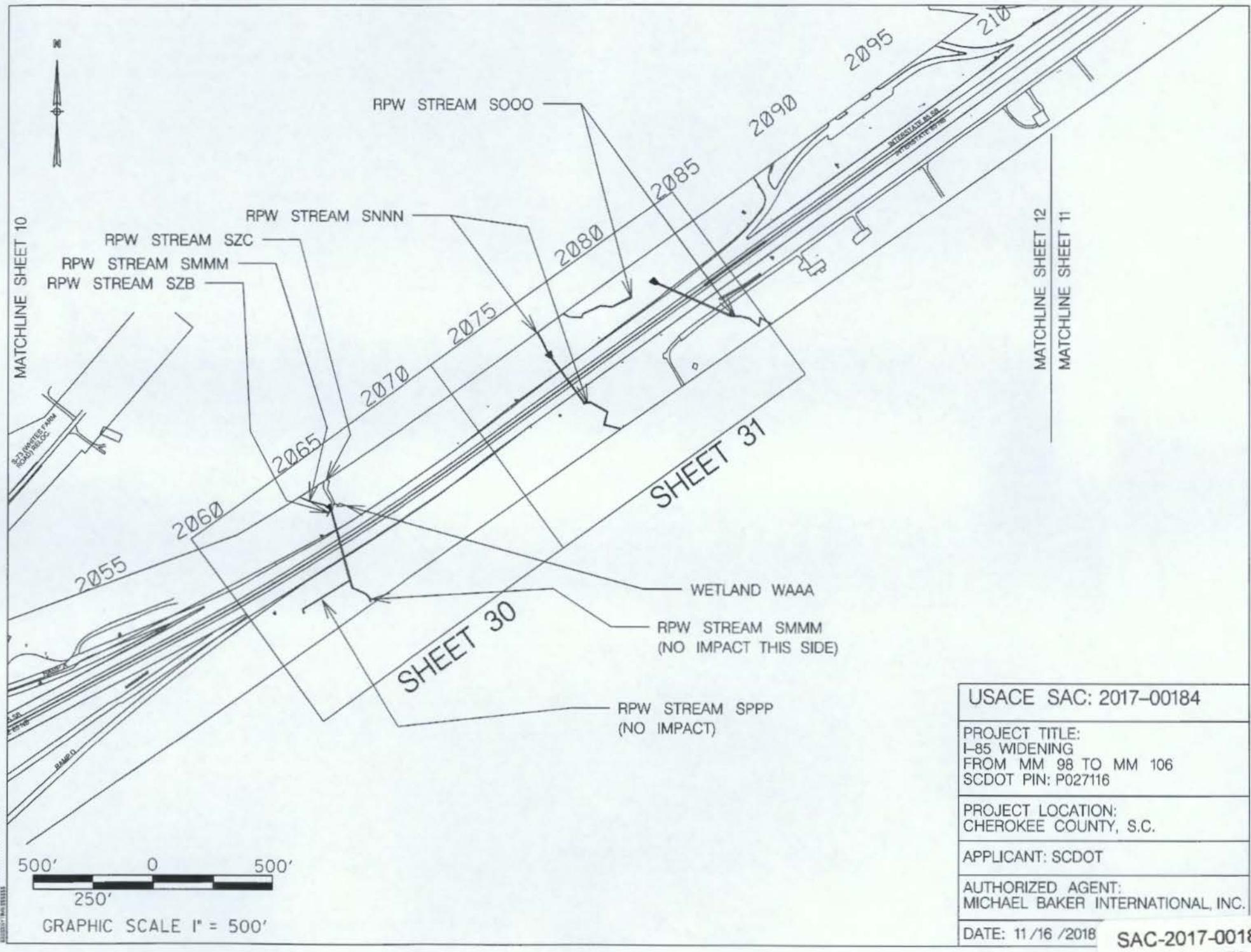
MATCHLINE SHEET 9



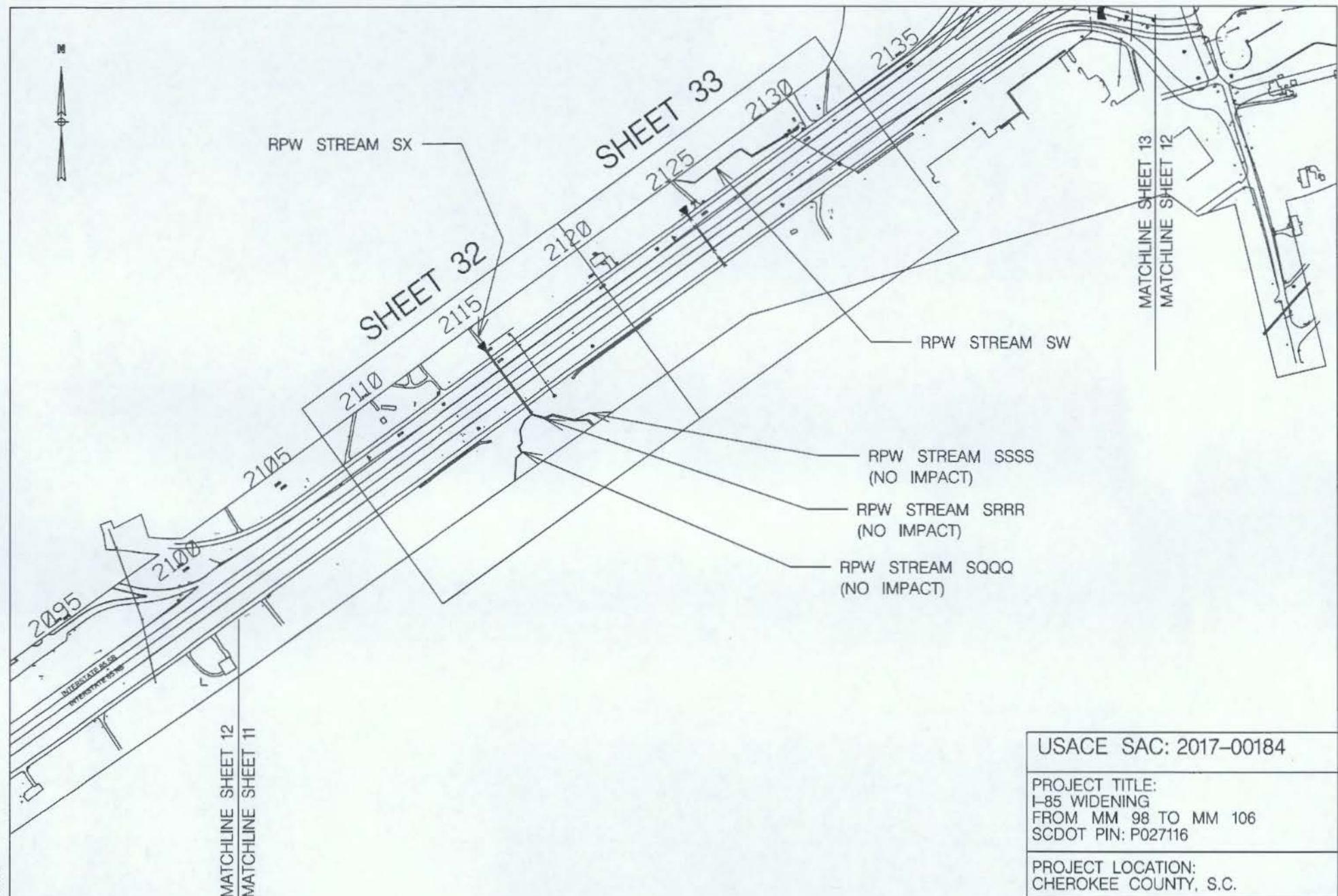
500' 0 500'
250'

GRAPHIC SCALE 1" = 500'

MATCHLINE SHEET 11



USACE SAC: 2017-00184
PROJECT TITLE: I-85 WIDENING FROM MM 98 TO MM 106 SCDOT PIN: P027116
PROJECT LOCATION: CHEROKEE COUNTY, S.C.
APPLICANT: SCDOT
AUTHORIZED AGENT: MICHAEL BAKER INTERNATIONAL, INC.
DATE: 11/16/2018
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500' 0 500'
250'

GRAPHIC SCALE 1" = 500'

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

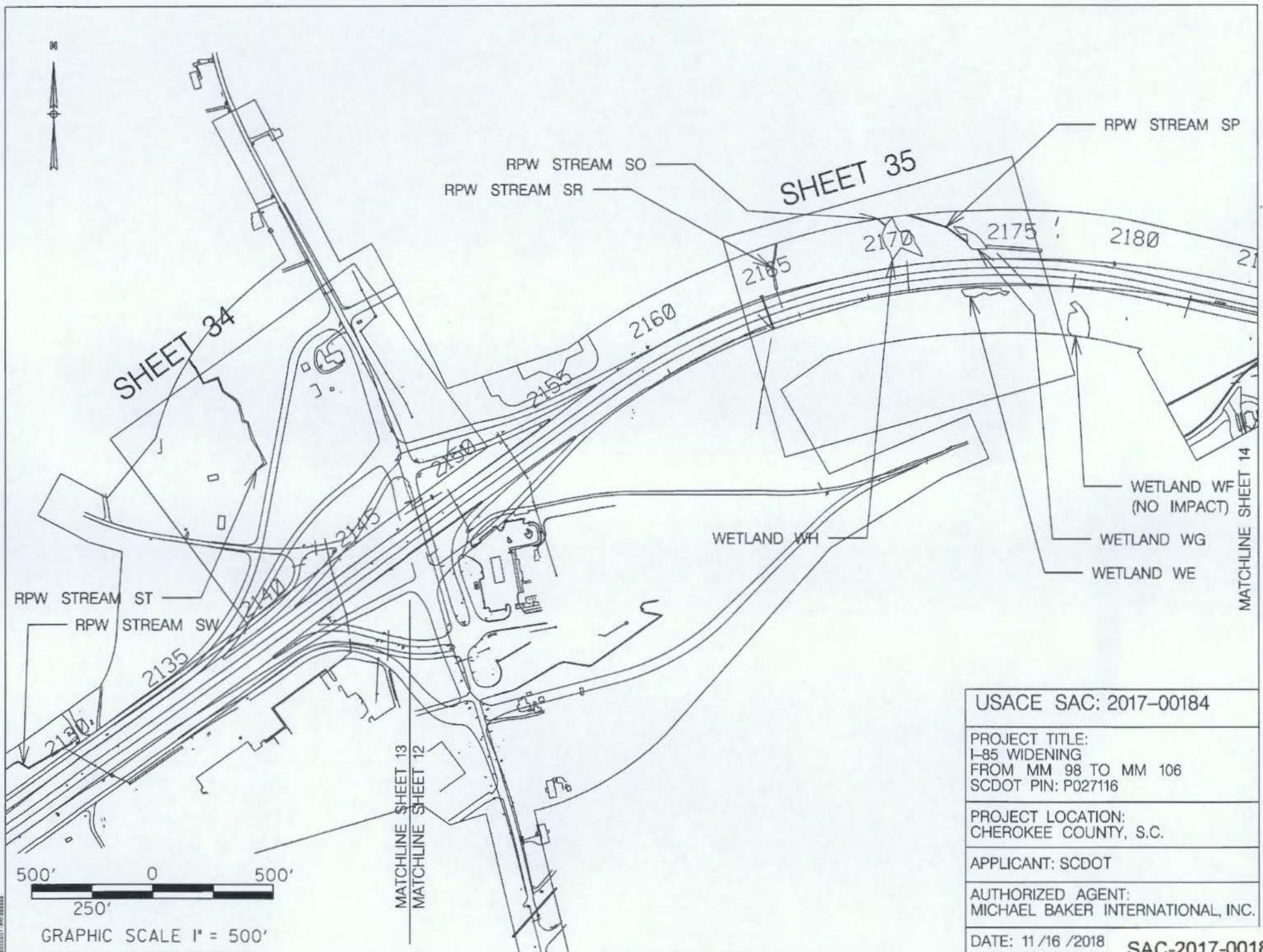
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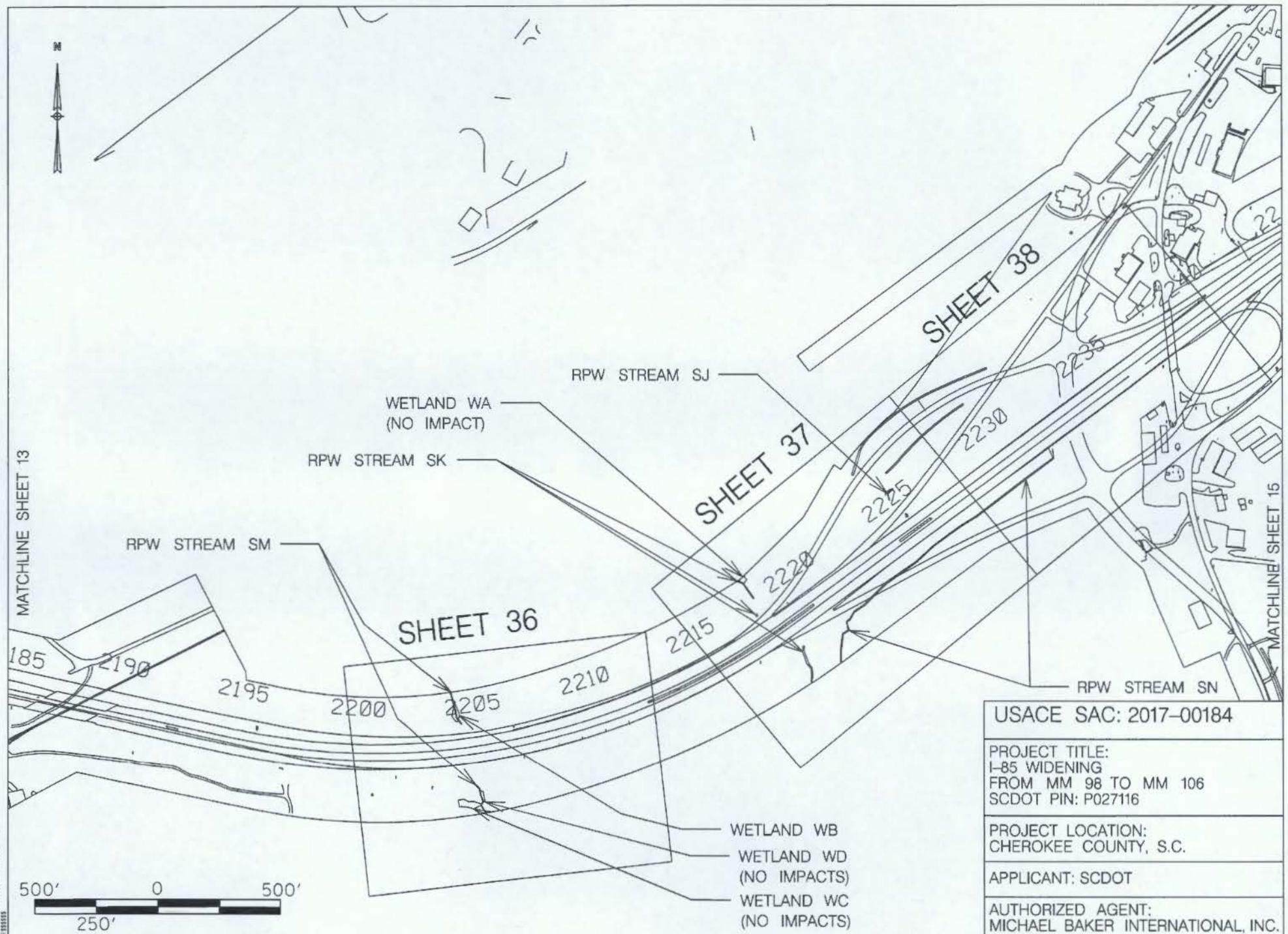
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MICHAEL BAKER INTERNATIONAL, INC.

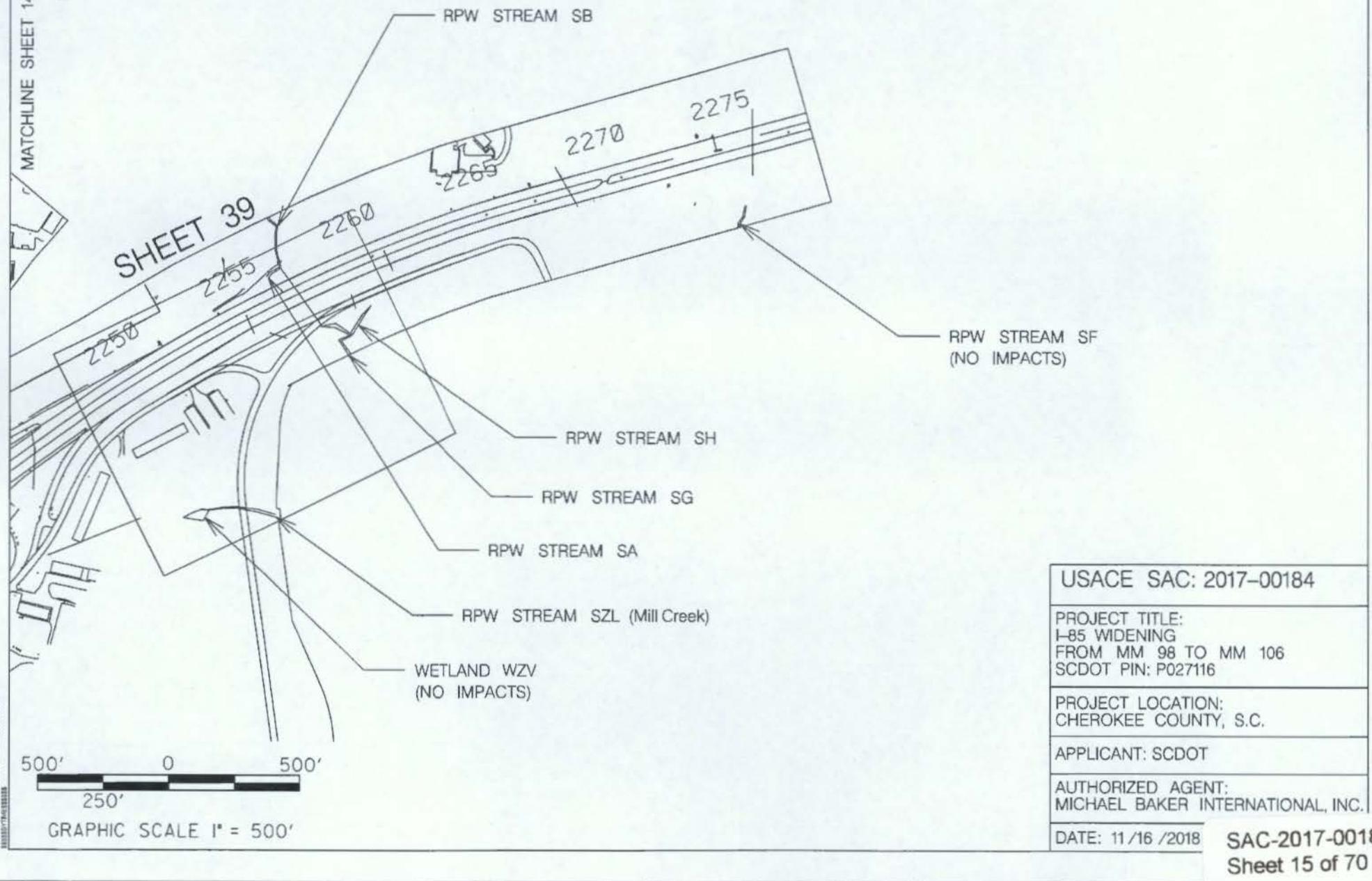
DATE: 11/16/2018

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USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

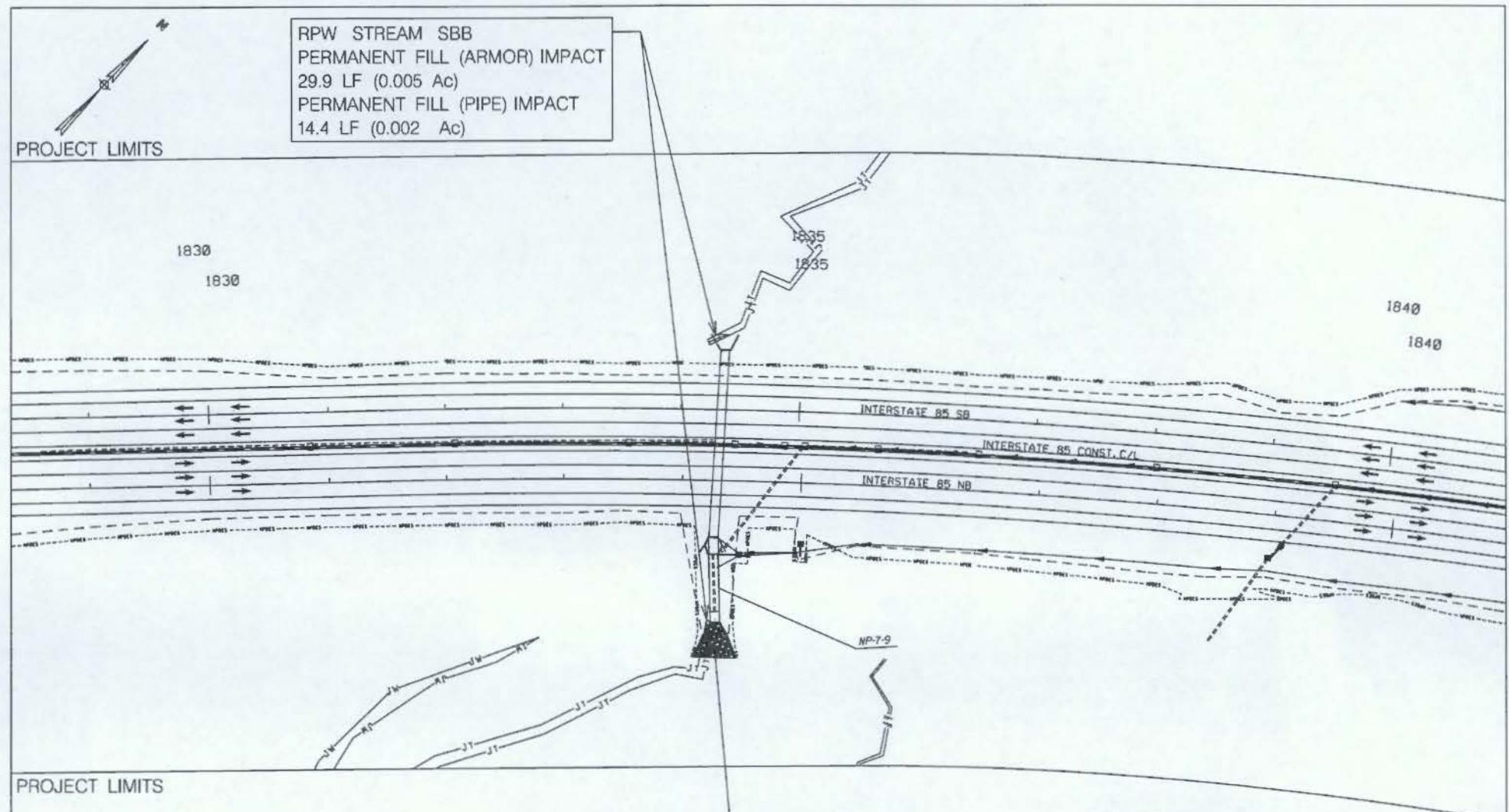
APPLICANT: SCDOT

AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

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JURISDICTIONAL IMPACTS THIS SHEET:

PERMANENT STREAM ARMORING: 29.9 LF (0.005 AC)

PERMANENT STREAM PIPING 14.4 LF (0.002 AC)

TOTAL STREAM IMPACTS: 44.3 LF (0.007 AC)

120' 0 120'

GRAPHIC SCALE 1" = 120'

- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

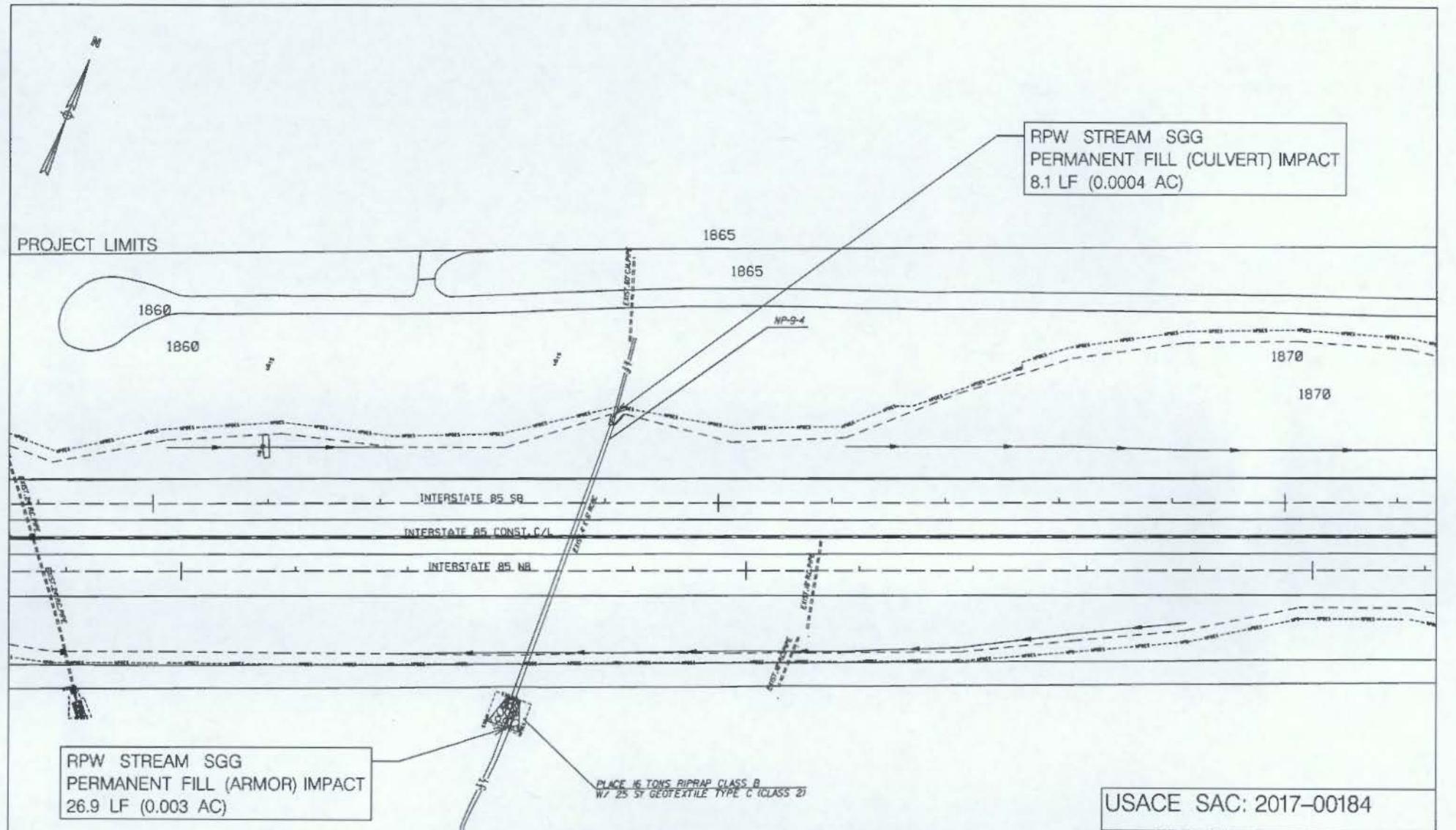
APPLICANT: SCDOT

AUTHORIZED AGENT:
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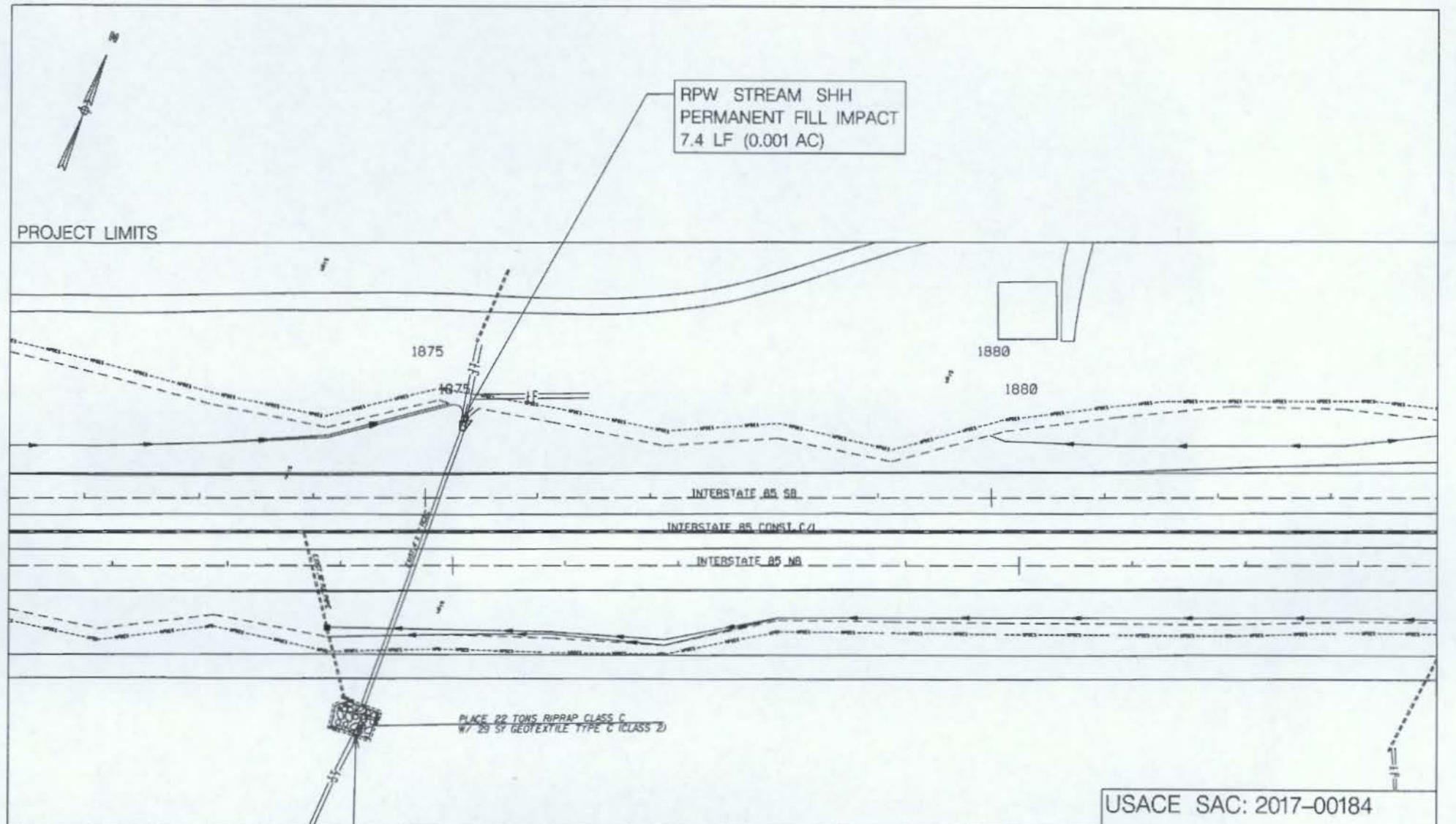
DATE: 11/16/2018

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PROJECT LIMITS	JURISDICTIONAL IMPACTS THIS SHEET:	USACE SAC: 2017-00184
	PERMANENT STREAM FILL (CULVERT): 8J LF (0.0004 AC)	PROJECT TITLE: I-85 WIDENING FROM MM 98 TO MM 106 SCDOT PIN: P027116
	PERMANENT STREAM ARMORING: 26.9 LF (0.003 AC)	PROJECT LOCATION: CHEROKEE COUNTY, S.C.
	TOTAL STREAM IMPACTS: 35.0 LF (0.0034 AC)	APPLICANT: SCDOT
I20' 0 120'	<ul style="list-style-type: none"> - DENOTES FILL IMPACTS - DENOTES CLEAR IMPACTS - DENOTES EXCAVATE IMPACTS 	AUTHORIZED AGENT: MICHAEL BAKER INTERNATIONAL, INC.
60'		DATE: 11/16/2018
GRAPHIC SCALE 1" = 120'		SAC-2017-00184
		Sheet 17 of 70



PROJECT LIMITS

RPW STREAM SHH
PERMANENT FILL (ARMOR) IMPACT
19.2 LF (0.002 AC)

120' 0 120'
60'
GRAPHIC SCALE 1" = 120'

JURISDICTIONAL IMPACTS THIS SHEET:

PERMANENT STREAM FILL: 7.4 LF (0.001 AC)

PERMANENT STREAM ARMORING: 19.2 LF (0.002 AC)

TOTAL STREAM IMPACTS: 26.6 LF (0.003 AC)

- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

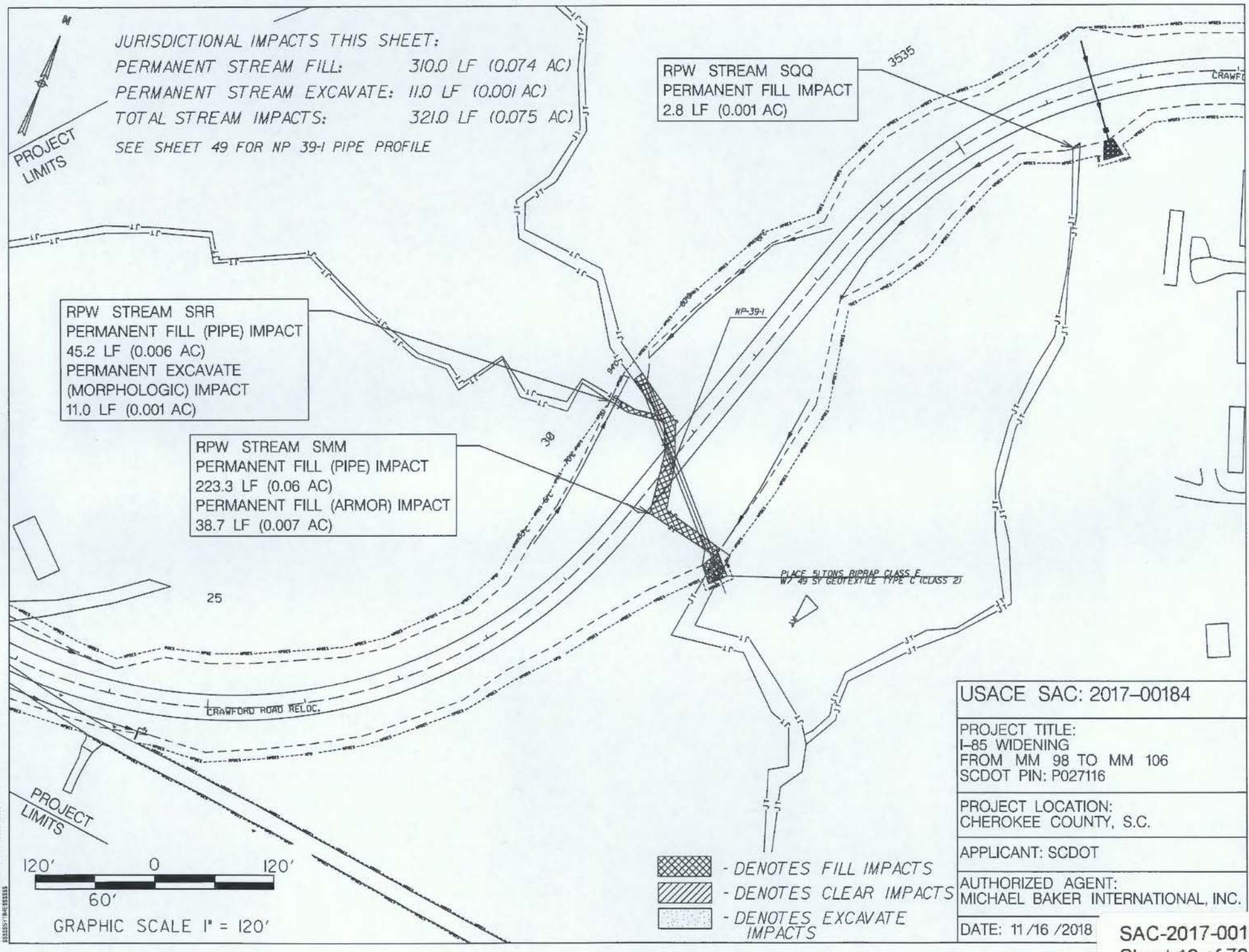
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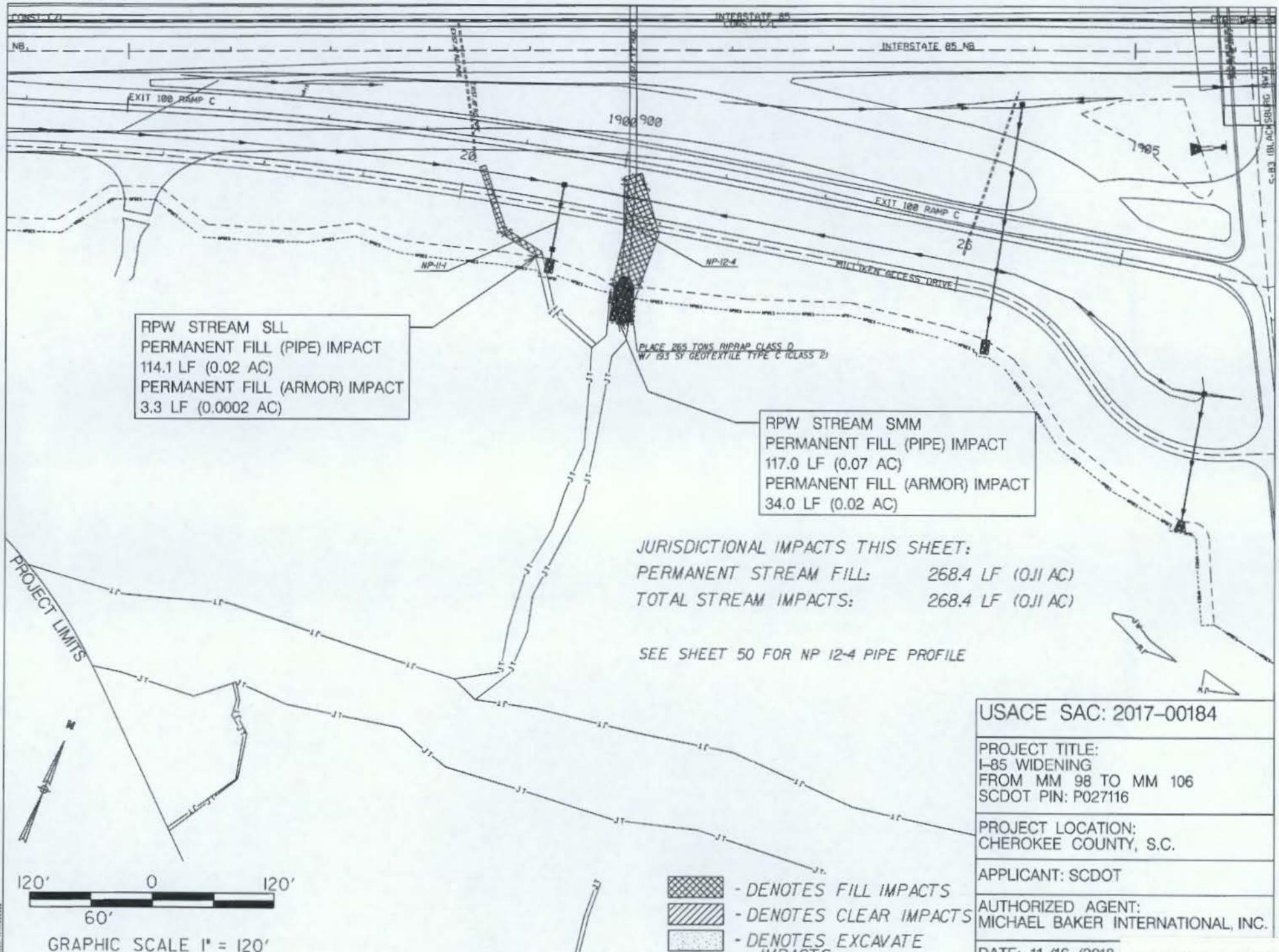
AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

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USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

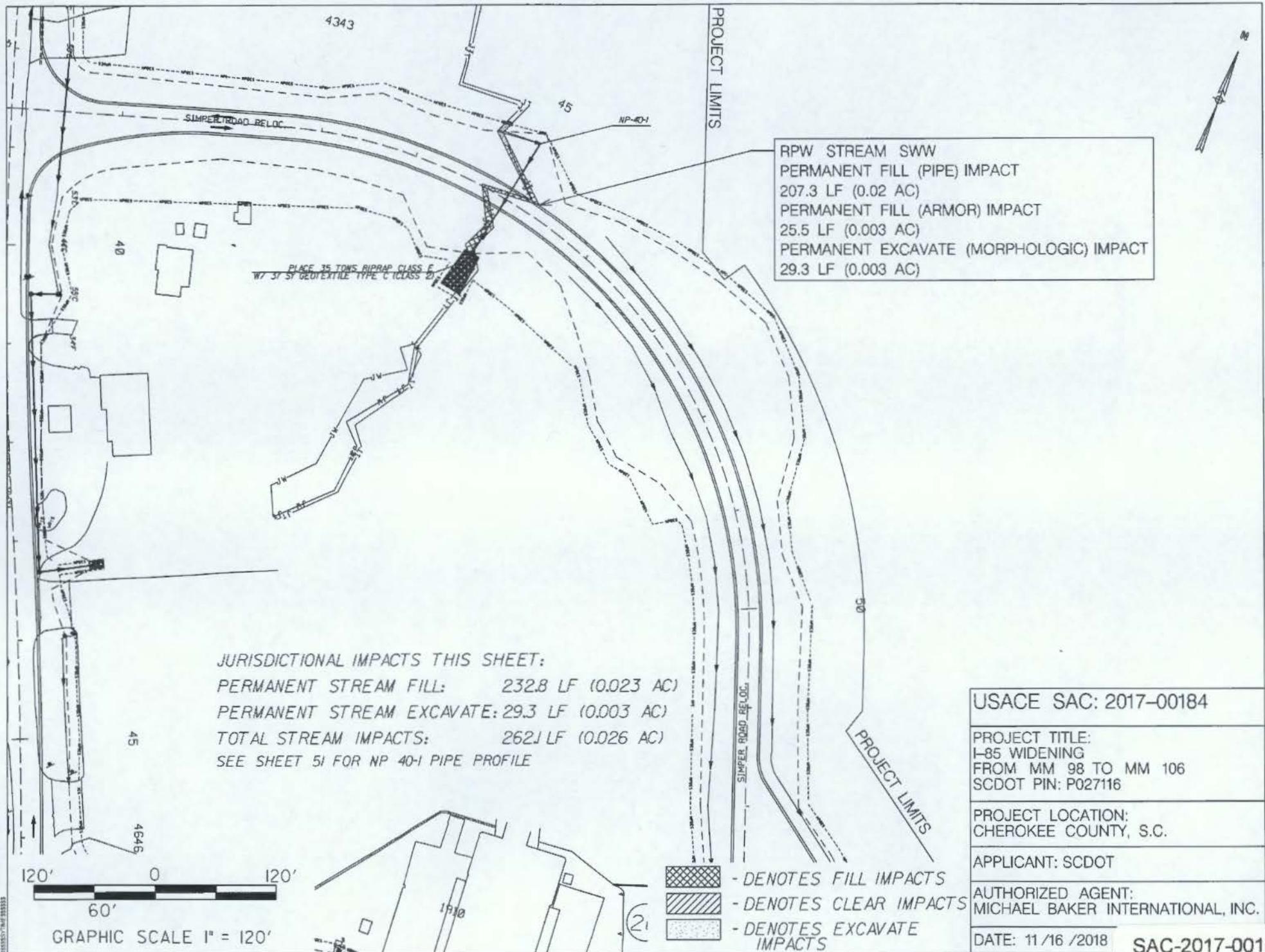
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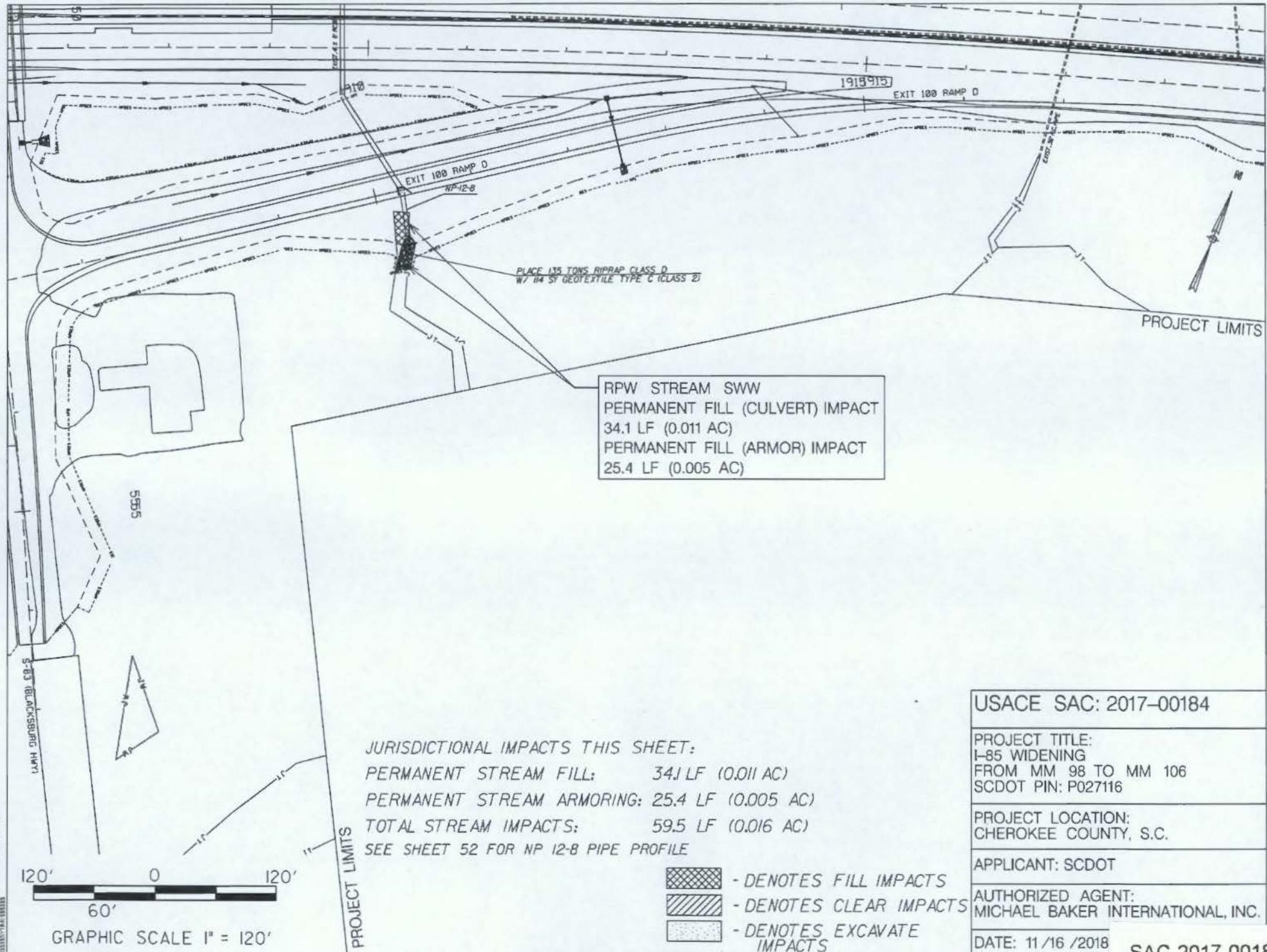
AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

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WETLAND WUU
PERMANENT CLEAR IMPACT
0.001 AC

PROJECT LIMITS

PLACE 475 TONS RIPRAP CLASS D
W/ 322 SF GEOTEXTILE TYPE C (CLASS 2)

1940
1940

1945

NP-15-2

1950
1950

RPW STREAM SSS
PERMANENT FILL (CULVERT) IMPACT
6.5 LF (0.001 AC)
PERMANENT FILL (ARMOR) IMPACT
85.6 LF (0.01 AC)
PERMANENT EXCAVATE (MORPHOLOGIC) IMPACT
29.5 LF (0.01 AC)

WETLAND WQQ
PERMANENT CLEAR IMPACT
0.005 AC

PROJECT LIMITS

A

JURISDICTIONAL IMPACTS THIS SHEET:

PERMANENT STREAM FILL: 92.1 LF (0.011 AC)

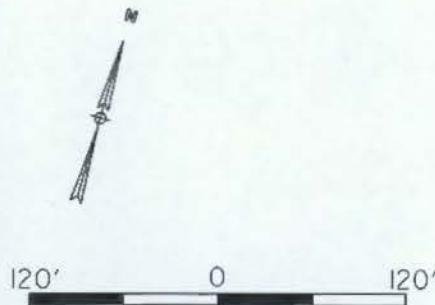
PERMANENT STREAM EXCAVATE: 29.5 LF (0.01 AC)

TOTAL STREAM IMPACTS: 121.6 LF (0.021 AC)

PERMANENT WETLAND CLEAR: 0.006 AC

TOTAL WETLAND IMPACTS: 0.006 AC

SEE SHEET 40 FOR CROSS SECTION A



GRAPHIC SCALE 1" = 120'

- [Hatched box] - DENOTES FILL IMPACTS
- [Cross-hatched box] - DENOTES CLEAR IMPACTS
- [Dashed box] - DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

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CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

AUTHORIZED AGENT:
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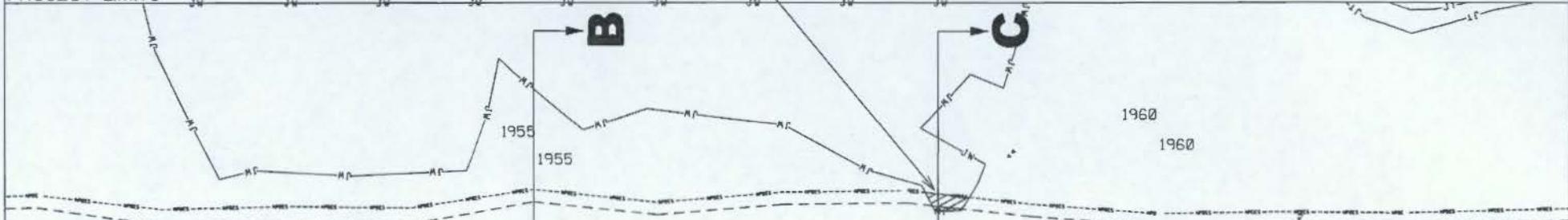
DATE: 11/16/2018

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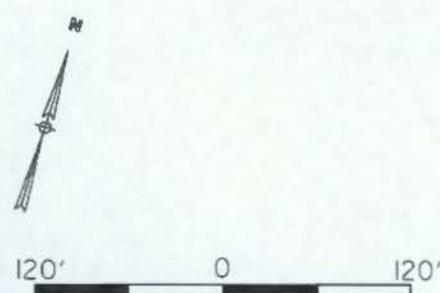
WETLAND WW
PERMANENT FILL IMPACT
0.001 AC
PERMANENT CLEAR IMPACT
0.007 AC

PROJECT LIMITS



WETLAND WOO
PERMANENT FILL IMPACT
0.006 AC
PERMANENT CLEAR IMPACT
0.10 AC

PROJECT LIMITS



GRAPHIC SCALE 1" = 120'

JURISDICTIONAL IMPACTS THIS SHEET:

PERMANENT WETLAND FILL: 0.007 AC

PERMANENT WETLAND CLEAR: 0.007 AC

TOTAL WETLAND IMPACTS: 0.014 AC

SEE SHEET 41 FOR CROSS SECTION B

SEE SHEET 42 FOR CROSS SECTION C

- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184

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CHEROKEE COUNTY, S.C.

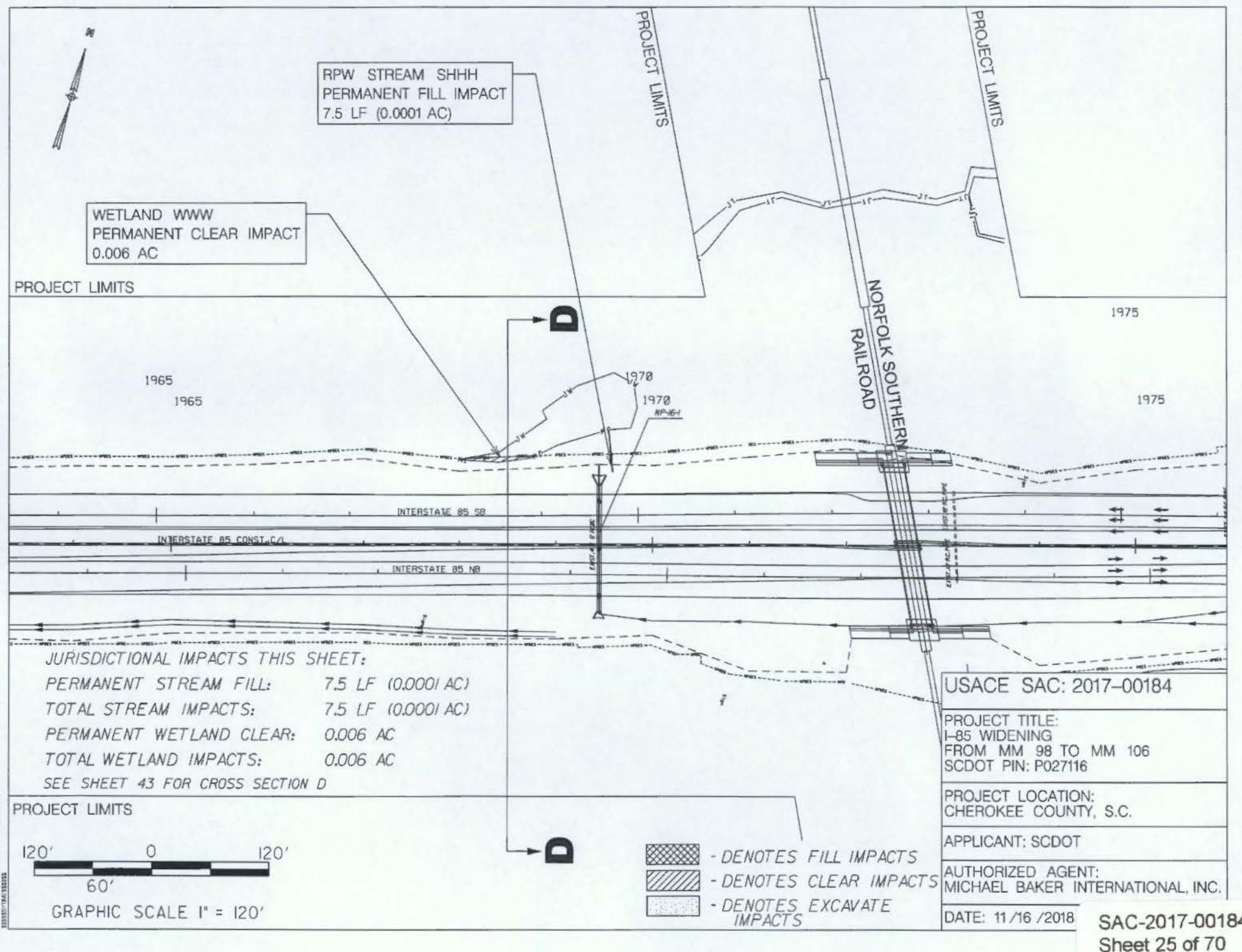
APPLICANT: SCDOT

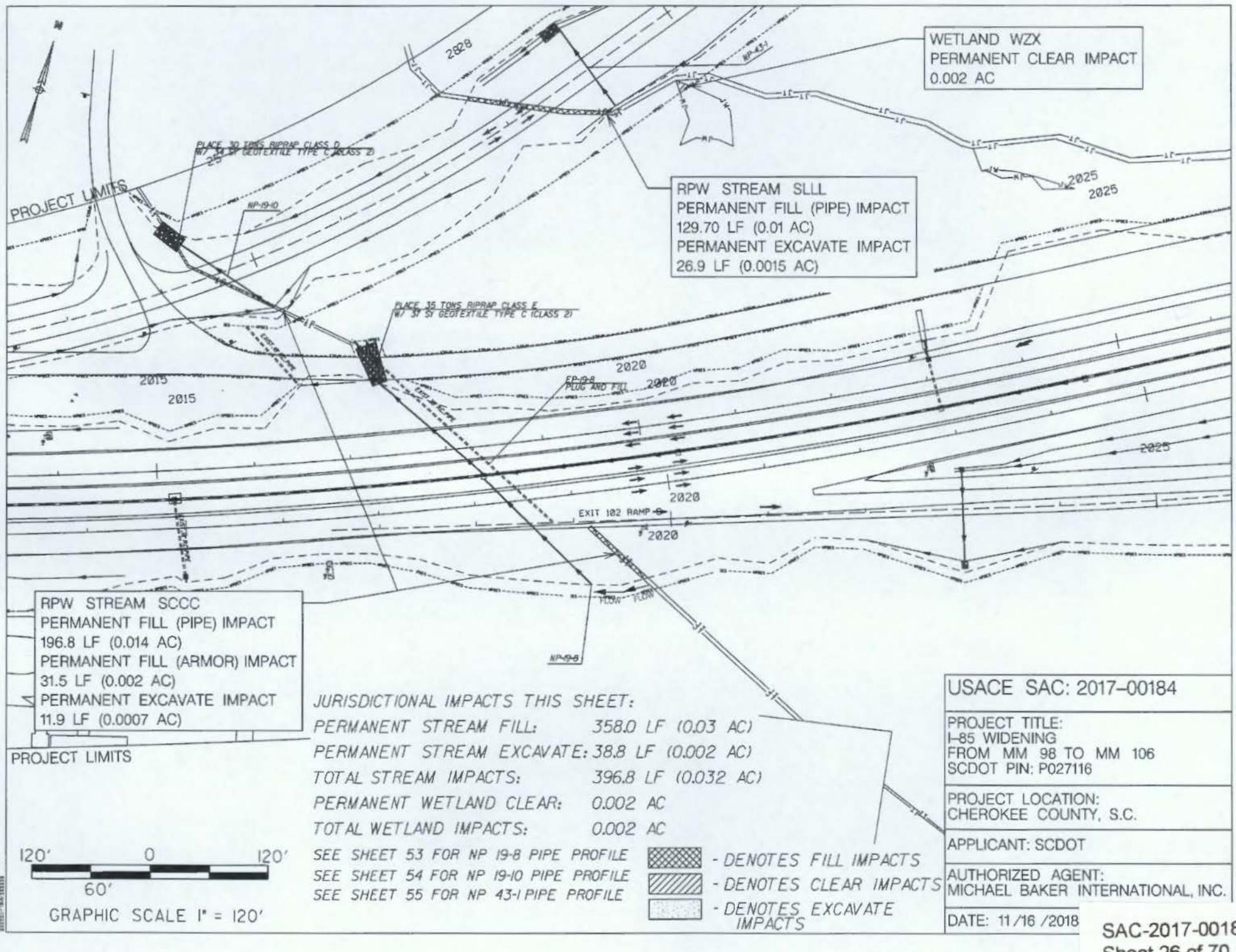
AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

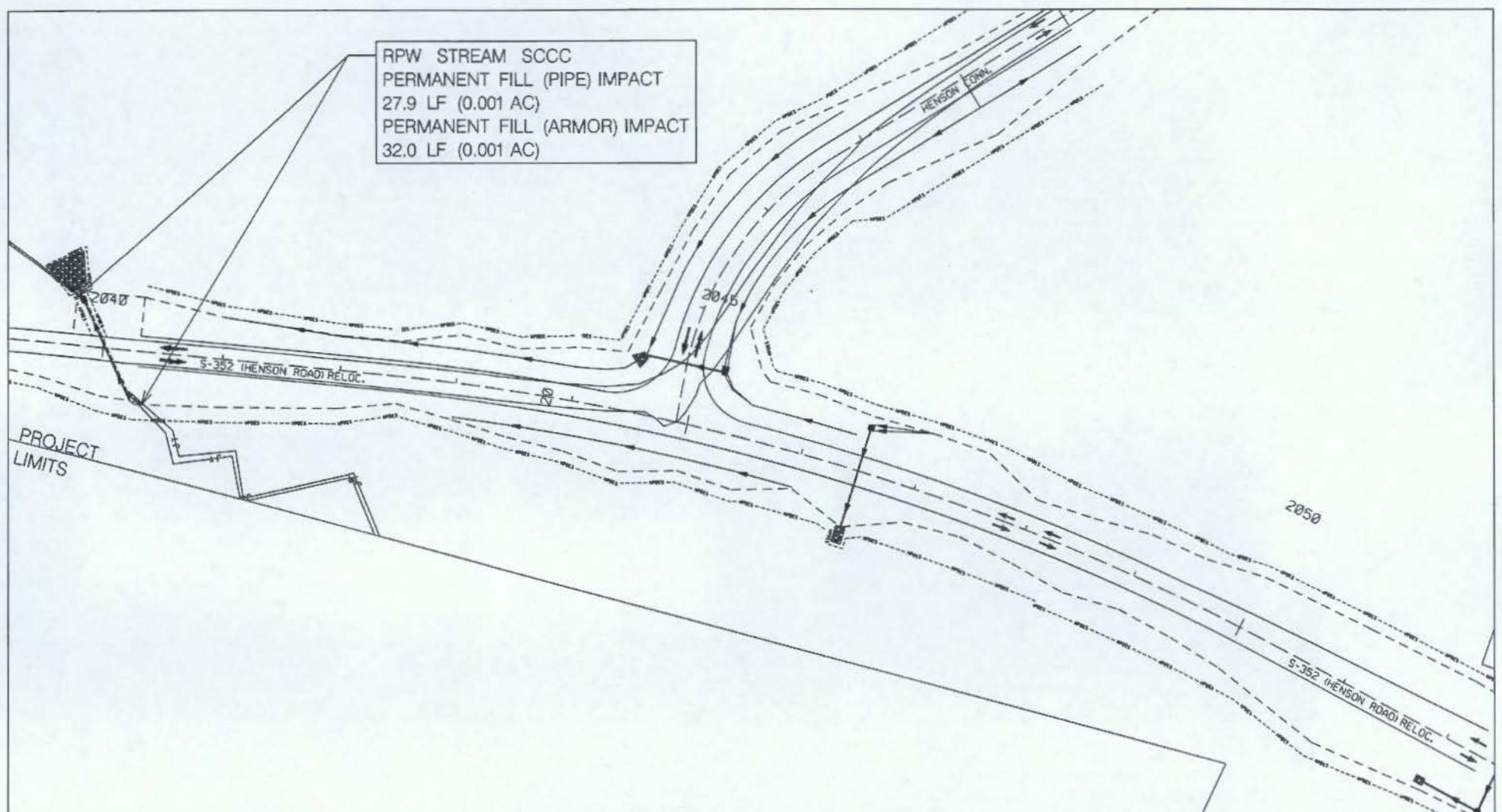
SAC-2017-00184

Sheet 24 of 70





RPW STREAM SCCC
PERMANENT FILL (PIPE) IMPACT
27.9 LF (0.001 AC)
PERMANENT FILL (ARMOR) IMPACT
32.0 LF (0.001 AC)



JURISDICTIONAL IMPACTS THIS SHEET:

PERMANENT STREAM FILL: 59.9 LF (0.002 AC)

TOTAL STREAM IMPACTS: 59.9 LF (0.002 AC)

120' 0 120'
60'

GRAPHIC SCALE 1" = 120'

- PROJECT LIMITS
- [Hatched square] - DENOTES FILL IMPACTS
 - [Cross-hatched square] - DENOTES CLEAR IMPACTS
 - [Dashed square] - DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

SAC-2017-00184

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RPW STREAM SDDD
PERMANENT FILL (PIPE) IMPACT
225.4 LF (0.02 AC)
PERMANENT FILL (ARMOR) IMPACT
31.3 LF (0.002 AC)

RPW STREAM SLLL
PERMANENT FILL (ARMOR) IMPACT
17.1 LF (0.002 AC)

RPW STREAM SKKK
PERMANENT FILL (PIPE) IMPACT
223.4 LF (0.006 AC)

~~PLACE 33 TONS RIPRAP CLASS E
W/ 35 ST GEOTEXTILE TYPE C (CLASS 2)~~

INTERSTATE 85 S

INTERSTATE 85 CONST. C/

INTERSTATE 85 N

EXIT 182 RAMP

JURISDICTIONAL IMPACTS THIS SHEET:

PERMANENT STREAM FILL: 497.2 LF (0.03 AC)

TOTAL STREAM IMPACTS: 497.2 LF (0.03 AC)

SEE SHEET 56 FOR NP 20-4 PIPE PROFILE
SEE SHEET 57 FOR NP 20-4 PIPE PROFILE

120' 0 120

GRAPHIC SCALE 1" = 120'

- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

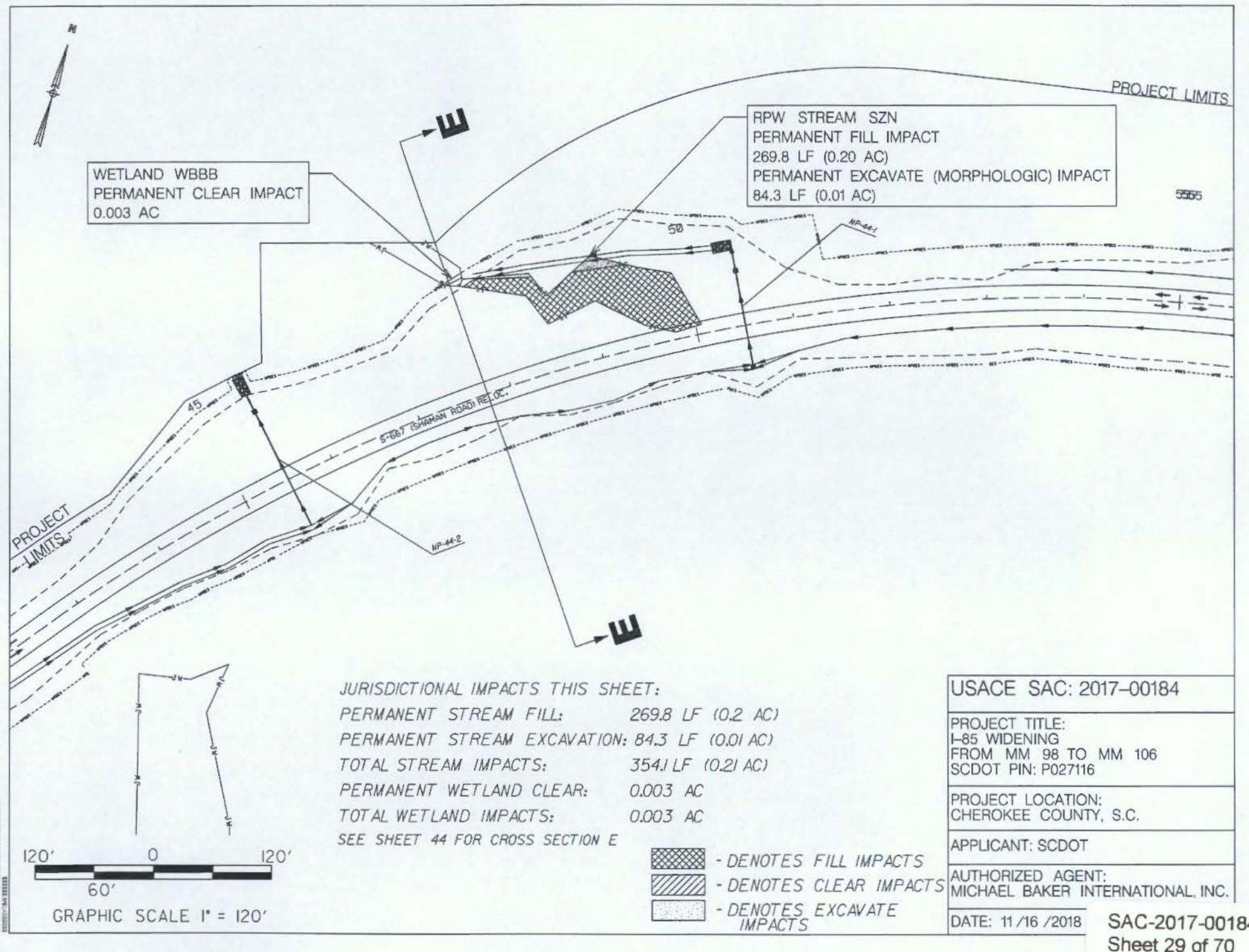
APPLICANT: SCDOT

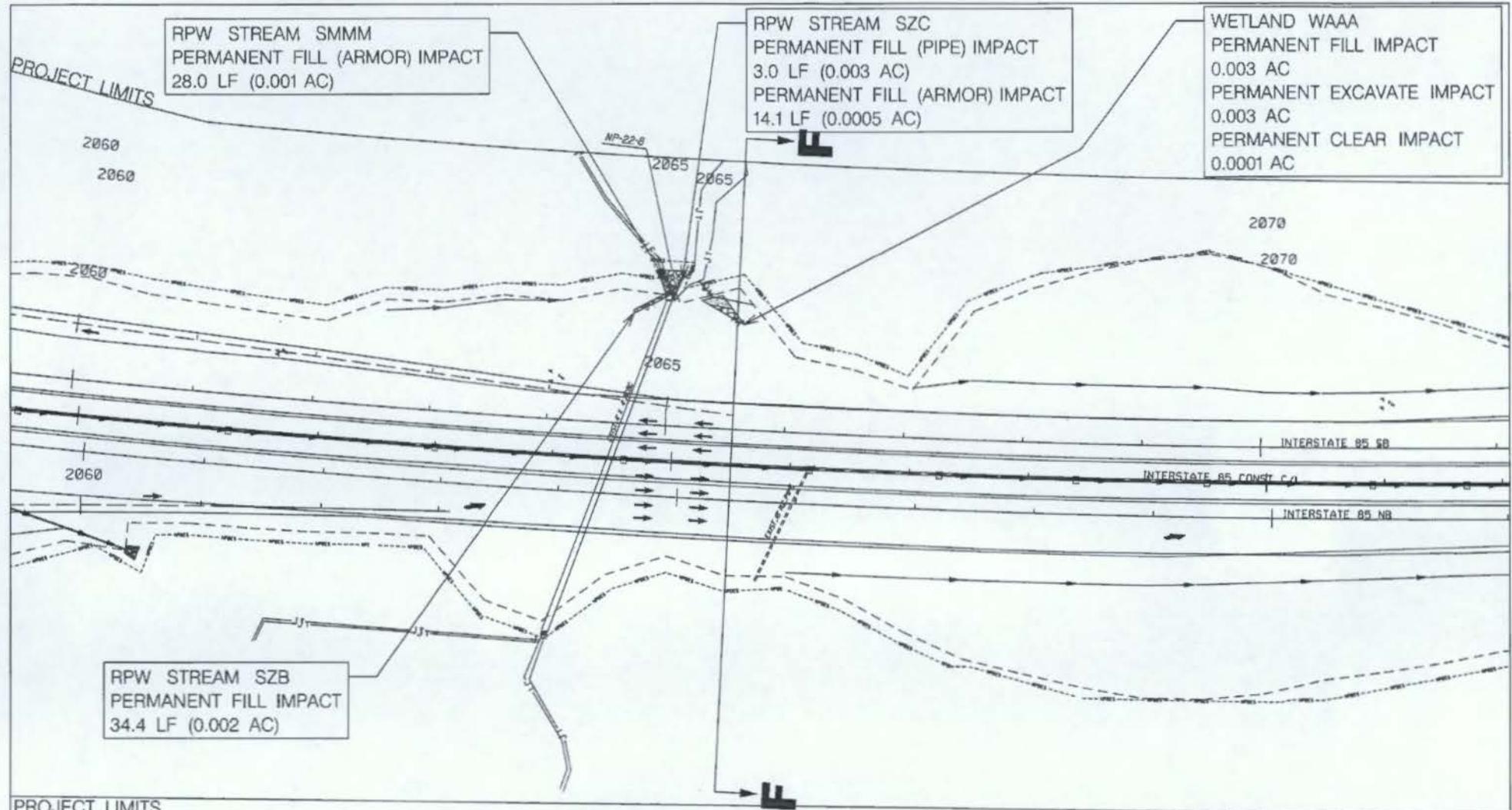
AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

SAC-2017-00184

Sheet 28 of 70





PROJECT LIMITS

JURISDICTIONAL IMPACTS THIS SHEET:

PERMANENT STREAM FILL: 79.5 LF (0.007 AC)

TOTAL STREAM IMPACTS: 79.5 LF (0.007 AC)

PERMANENT WETLAND FILL: 0.003 AC

PERMANENT WETLAND EXCAVATE: 0.003 AC

PERMANENT WETLAND CLEAR: 0.0001 AC

TOTAL WETLAND IMPACTS: 0.006 AC

120' 0 120'

SEE SHEET 45 FOR CROSS SECTION F

GRAPHIC SCALE 1" = 120'

- [Hatched Box] - DENOTES FILL IMPACTS
- [Cross-hatched Box] - DENOTES CLEAR IMPACTS
- [White Box] - DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

SAC-2017-00184

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RPW STREAM SNNN
PERMANENT FILL (PIPE) IMPACT
6.7 LF (0.001 AC)
PERMANENT FILL (ARMOR) IMPACT
18.4 LF (0.001 AC)

PROJECT LIMITS

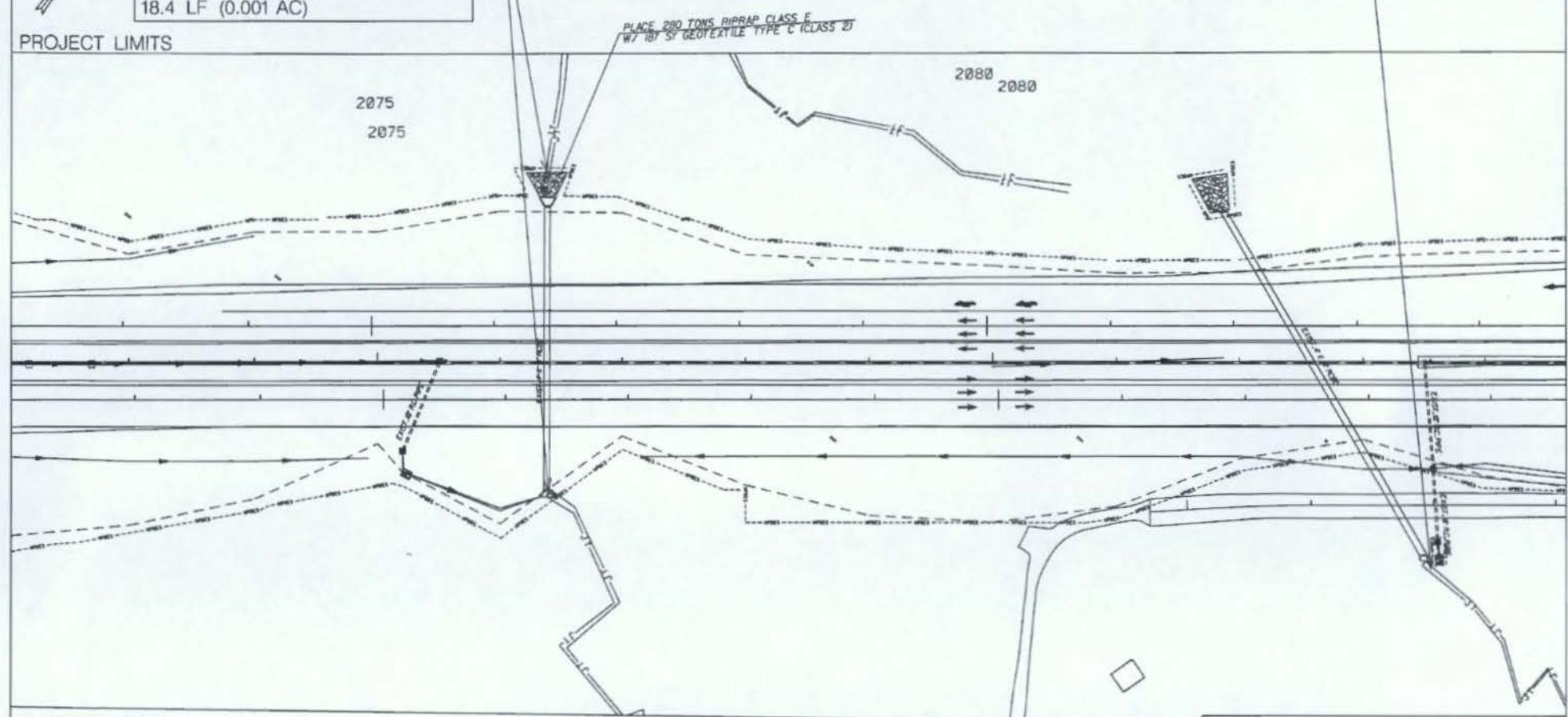
RPW STREAM SOOO
NO IMPACT

2075

2075

2080 2080

PLACE 280 TONS RIPRAP CLASS E
W/ 187 SF GEOTEXTILE TYPE C (CLASS D)



PROJECT LIMITS

JURISDICTIONAL IMPACTS THIS SHEET:

PERMANENT STREAM FILL: 25.1 LF (0.002 AC)

TOTAL STREAM IMPACTS: 25.1 LF (0.002 AC)

120' 0 120'

GRAPHIC SCALE 1" = 120'

- [Cross-hatched box] - DENOTES FILL IMPACTS
- [Diagonal line box] - DENOTES CLEAR IMPACTS
- [White box] - DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

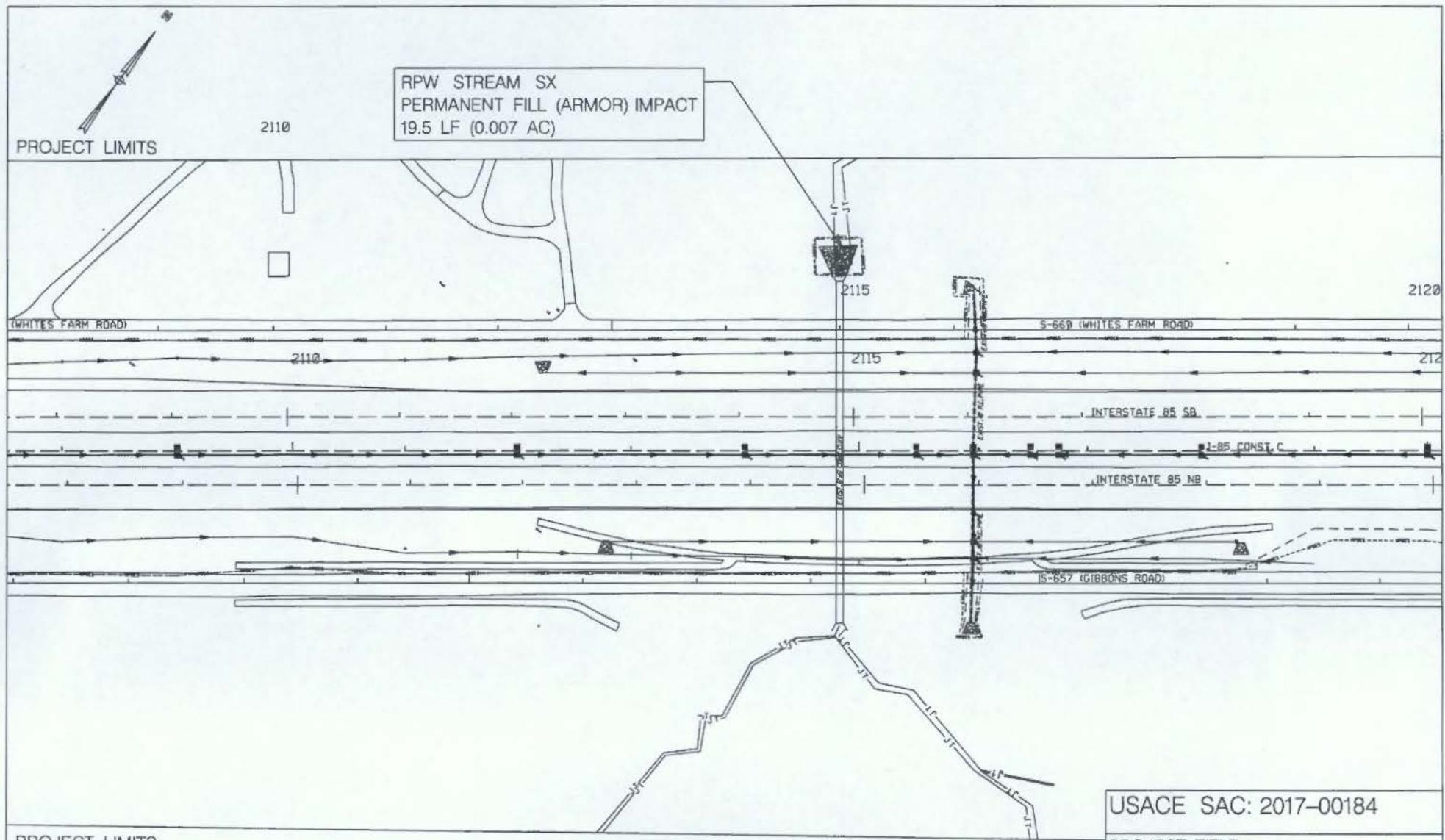
APPLICANT: SCDOT

AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

SAC-2017-00184

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JURISDICTIONAL IMPACTS THIS SHEET:

PERMANENT STREAM FILL: 19.5 LF (0.007 AC)

TOTAL STREAM IMPACTS: 19.5 LF (0.007 AC)

120' 0 120'

GRAPHIC SCALE 1" = 120'

- [Diagonal hatching] - DENOTES FILL IMPACTS
- [Cross-hatching] - DENOTES CLEAR IMPACTS
- [Solid black box] - DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

SAC-2017-00184

Sheet 32 of 70

PROJECT LIMITS

RPW STREAM SW
PERMANENT FILL (CULVERT) IMPACT
44.1 LF (0.004 AC)
PERMANENT FILL (ARMOR) IMPACT
14.4 LF (0.001 AC)
PERMANENT EXCAVATE (MORPHOLOGIC) IMPACT
53.2 LF (0.005 AC)

2125 2125 2130

S-659 (WHITES FARM ROAD)

I-85 CONST. I

INTERSTATE 85 SB

INTERSTATE 85 NB

S-657 (GIBBONS ROAD)

EXIT 104 M

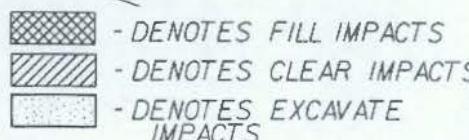
JURISDICTIONAL IMPACTS THIS SHEET:
 PERMANENT STREAM FILL: 58.5 LF (0.005 AC)

JURISDICTIONAL IMPACTS THIS SHEET:

PERMANENT STREAM FILL: 58.5 LF (0.005 AC)
PERMANENT STREAM EXCAVATE: 53.2 LF (0.005 AC)
TOTAL STREAM IMPACTS: 111.7 LF (0.010 AC)

PROJECT LIMITS

GRAPHIC SCALE 1" = 120'



USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

S AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11 /16 /2018

SAC-2017-00184

Sheet 33 of 70

JURISDICTIONAL IMPACTS THIS SHEET:

PERMANENT STREAM FILL: 69.4 LF (0.01 AC)

TOTAL STREAM IMPACTS: 69.4 LF (0.01 AC)

PROJECT LIMITS

RPW STREAM ST
PERMANENT FILL (PIPE) IMPACT
57.3 LF (0.01 AC)
PERMANENT FILL (ARMOR) IMPACT
12.1 LF (0.002 AC)

WHITE HORN ROAD

S.C. WHITE FARM ROAD RELOC.

EXIT 10A RAMP B

120' 0 120'

GRAPHIC SCALE 1" = 120'

- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

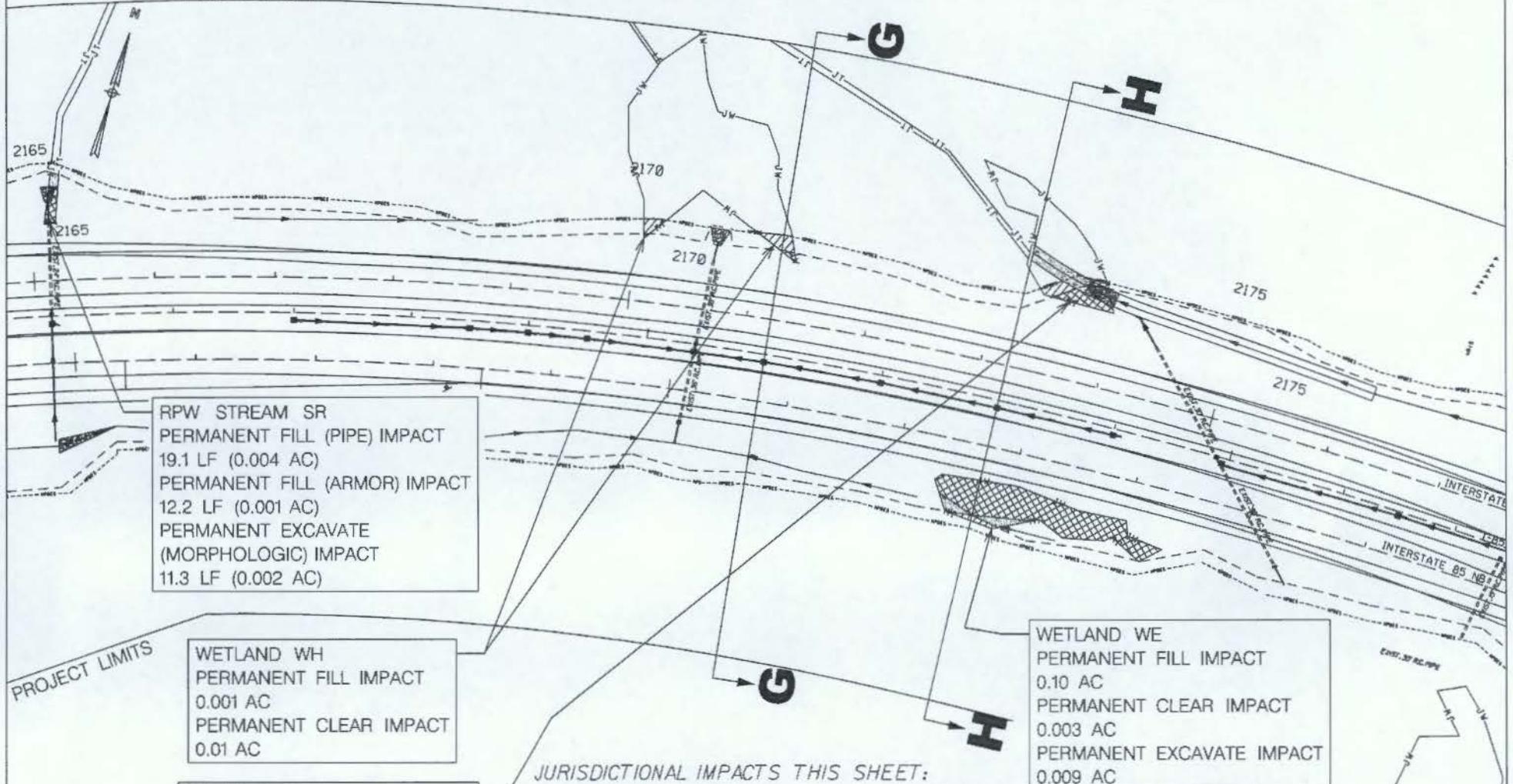
AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

SAC-2017-00184

Sheet 34 of 70

PROJECT LIMITS



JURISDICTIONAL IMPACTS THIS SHEET:

PERMANENT STREAM FILL:	31.3 LF (0.005 AC)
PERMANENT STREAM EXCAVATE:	11.3 LF (0.002 AC)
TOTAL STREAM IMPACTS:	42.6 LF (0.007 AC)
PERMANENT WETLAND FILL:	0.016 AC
PERMANENT WETLAND CLEAR:	0.019 AC
PERMANENT WETLAND EXCAVATE:	0.024 AC
TOTAL WETLAND IMPACTS:	0.059 AC

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

SAC-2017-00184

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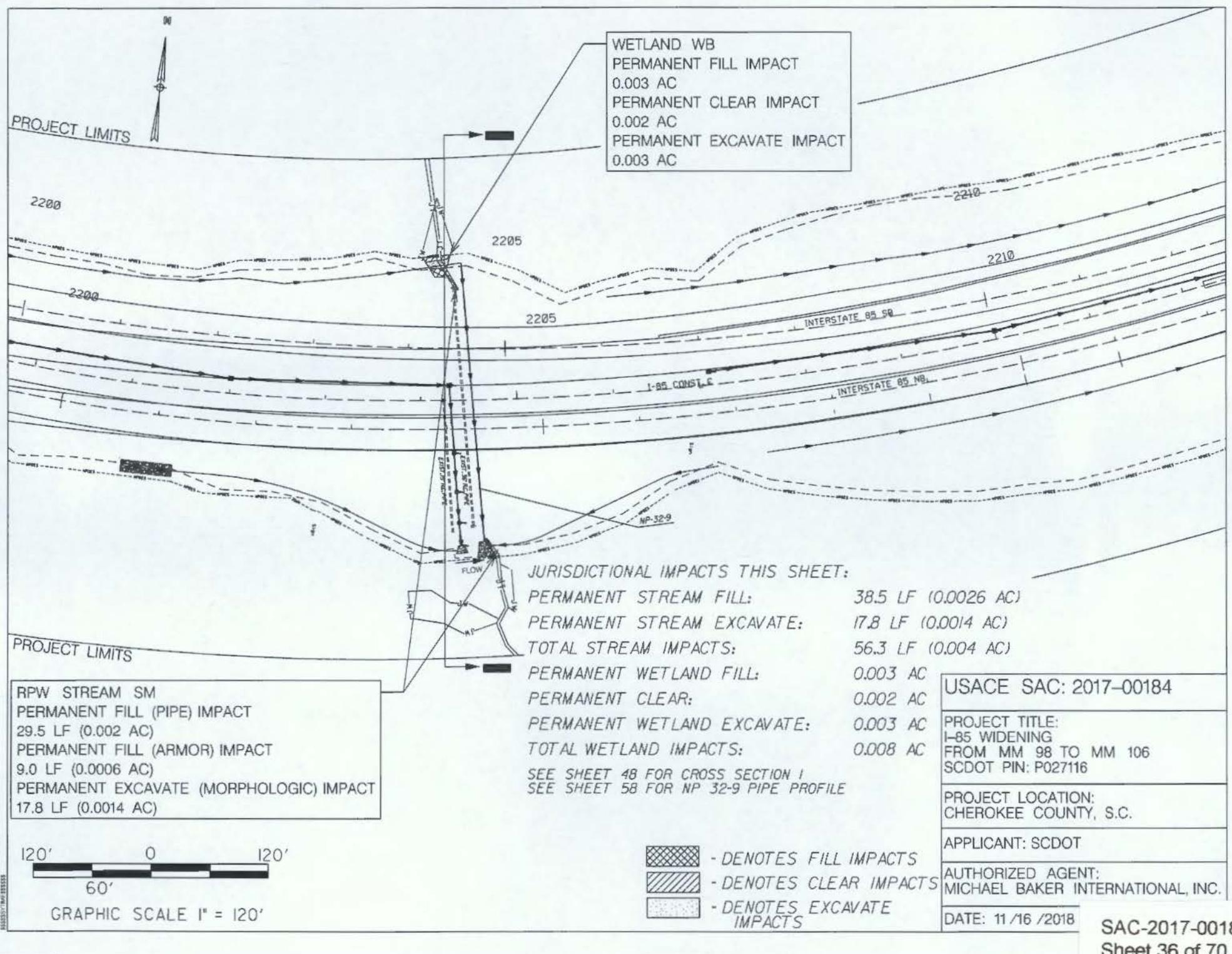
120' 0 120'

60'

GRAPHIC SCALE 1" = 120'

SEE SHEET 46 FOR CROSS SECTION G
SEE SHEET 47 FOR CROSS SECTION H

- [Cross-hatched box] - DENOTES FILL IMPACTS
- [Diagonal line box] - DENOTES CLEAR IMPACTS
- [Solid black box] - DENOTES EXCAVATE IMPACTS



RPW STREAM SK
 PERMANENT FILL (PIPE) IMPACT
 44.3 LF (0.006 AC)
 PERMANENT FILL (ARMOR) IMPACT
 7.0 LF (0.001 AC)
 PERMANENT FILL IMPACT
 29.8 LF (0.005 AC)

PROJECT LIMITS

5

NP-33-20

2220

2220

INTERSTATE 85 SB

INTERSTATE 85 NB

EXIT 106 RAMP B

2225

2225

IF

PROJECT LIMITS

RPW STREAM SN
 PERMANENT FILL (PIPE) IMPACT
 680.7 LF (0.07 AC)
 PERMANENT FILL (ARMOR) IMPACT
 21.3 LF (0.002 AC)
 PERMANENT FILL IMPACT
 27.3 LF (0.002 AC)

120' 0 120'

60'

GRAPHIC SCALE 1" = 120'

JURISDICTIONAL IMPACTS THIS SHEET:

PERMANENT STREAM FILL: 810.4 LF (0.09 AC)

TOTAL STREAM IMPACTS: 810.4 LF (0.09 AC)

SEE SHEET 59 FOR NP 33-20 PIPE PROFILE

SEE SHEET 60 FOR NP 33-19 PIPE PROFILE

-  - DENOTES FILL IMPACTS
-  - DENOTES CLEAR IMPACTS
-  - DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184

PROJECT TITLE:
 I-85 WIDENING
 FROM MM 98 TO MM 106
 SCDOT PIN: P027116

PROJECT LOCATION:
 CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

AUTHORIZED AGENT:
 MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

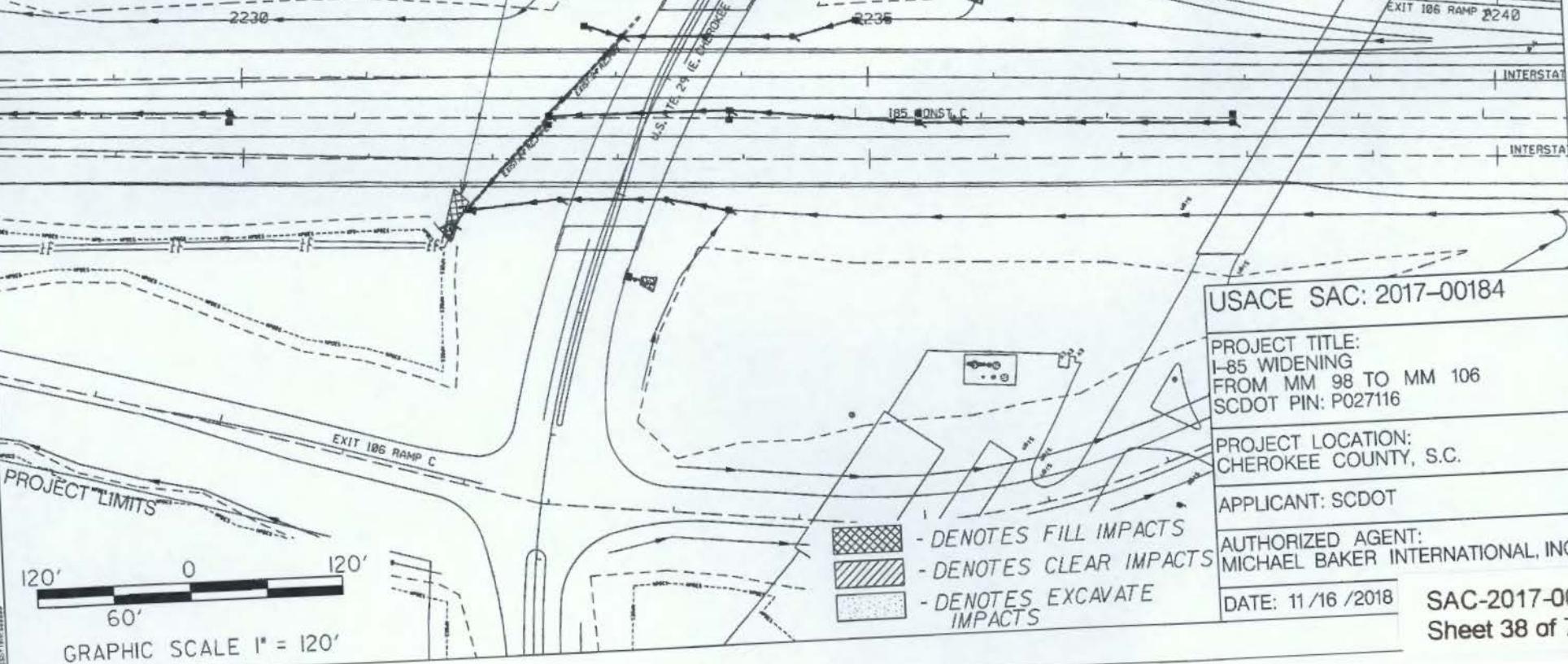
SAC-2017-00184

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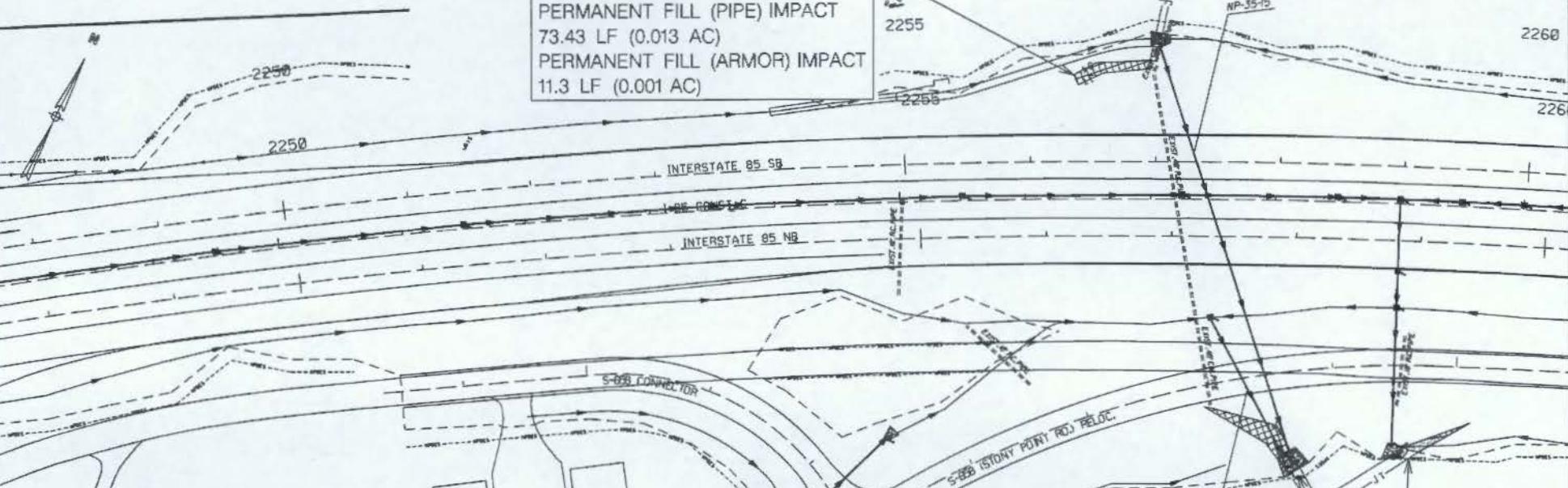
PROJECT LIMITS
JURISDICTIONAL IMPACTS THIS SHEET:
PERMANENT STREAM FILL:
TOTAL STREAM IMPACTS:

35.2 LF (0.009 AC)
35.2 LF (0.009 AC)

RPW STREAM SN
PERMANENT FILL (CULVERT) IMPACT
23.9 LF (0.007 AC)
PERMANENT FILL (ARMOR) IMPACT
11.3 LF (0.002 AC)



RPW STREAM SA AND SB
PERMANENT FILL (PIPE) IMPACT
73.43 LF (0.013 AC)
PERMANENT FILL (ARMOR) IMPACT
11.3 LF (0.001 AC)



JURISDICTIONAL IMPACTS THIS SHEET:

PERMANENT STREAM FILL: 433.9 LF (0.076 AC)
PERMANENT STREAM EXCAVATE: 44.4 LF (0.006 AC)
TOTAL STREAM IMPACTS: 478.3 LF (0.082 AC)

SEE SHEET 61 FOR NP 56-2 PIPE PROFILE
SEE SHEET 62 FOR NP 35-13 PIPE PROFILE

RPW STREAM SZL (MILL CREEK)
PERMANENT FILL (PIPE) IMPACT
195.3 LF (0.03 AC)
PERMANENT FILL (ARMOR) IMPACT
24.5 LF (0.005 AC)
PERMANENT EXCAVATE
(MORPHOLOGIC) IMPACT
12.1 LF (0.001 AC)

RPW STREAM SG
PERMANENT FILL (PIPE) IMPACT
77.1 LF (0.02 AC)
PERMANENT FILL (ARMOR) IMPACT
16.4 LF (0.004 AC)

RPW STREAM SH
PERMANENT FILL IMPACT
29.6 LF (0.002 AC)
PERMANENT FILL (ARMOR) IMPACT
6.3 LF (0.0008 AC)
PERMANENT EXCAVATE (MORPHOLOGIC) IMPACT
32.3 LF (0.005 AC)

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

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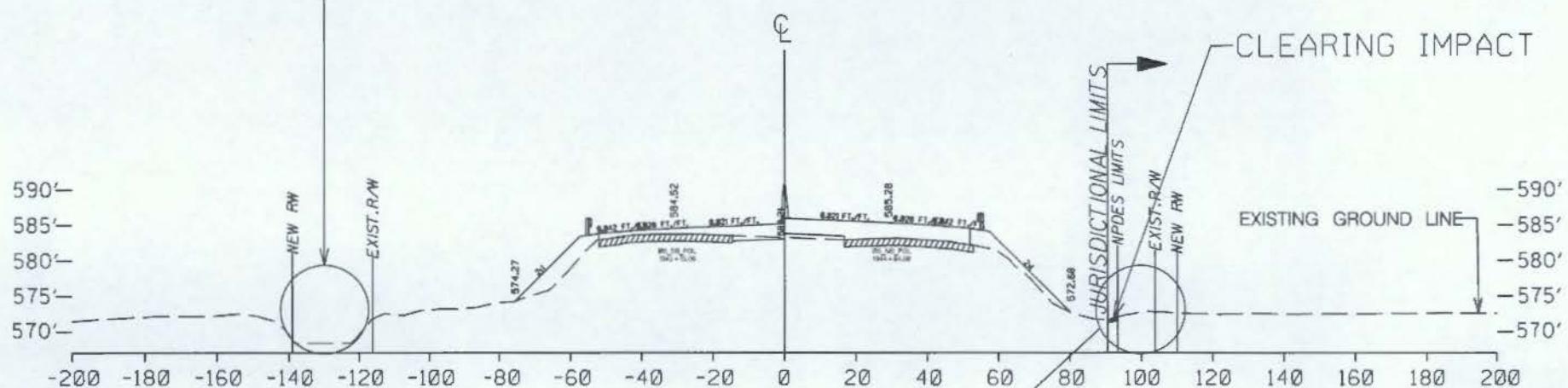
120' 0 120'
60'

GRAPHIC SCALE 1" = 120'

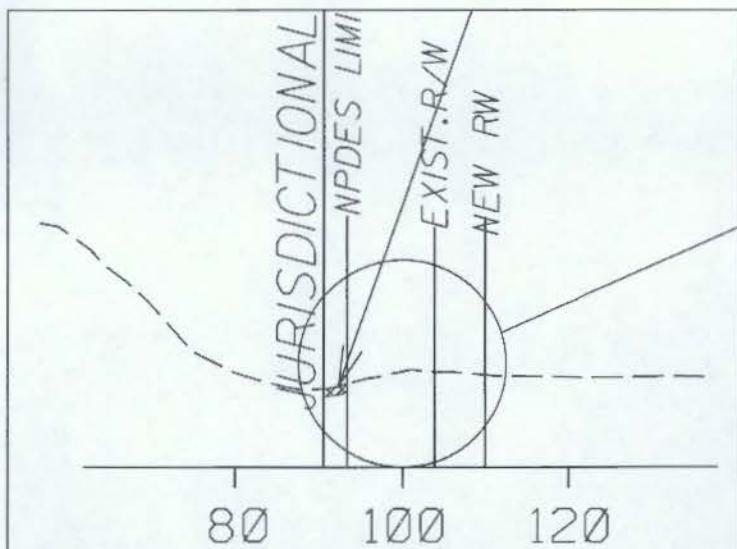
- [Hatched Box] - DENOTES FILL IMPACTS
- [Cross-hatched Box] - DENOTES CLEAR IMPACTS
- [White Box] - DENOTES EXCAVATE IMPACTS

SEE SHEET 23 FOR PLAN VIEW OF CROSS-SECTION A

EXISTING CHANNEL



STA. 1945+00.00
SECTION A-A

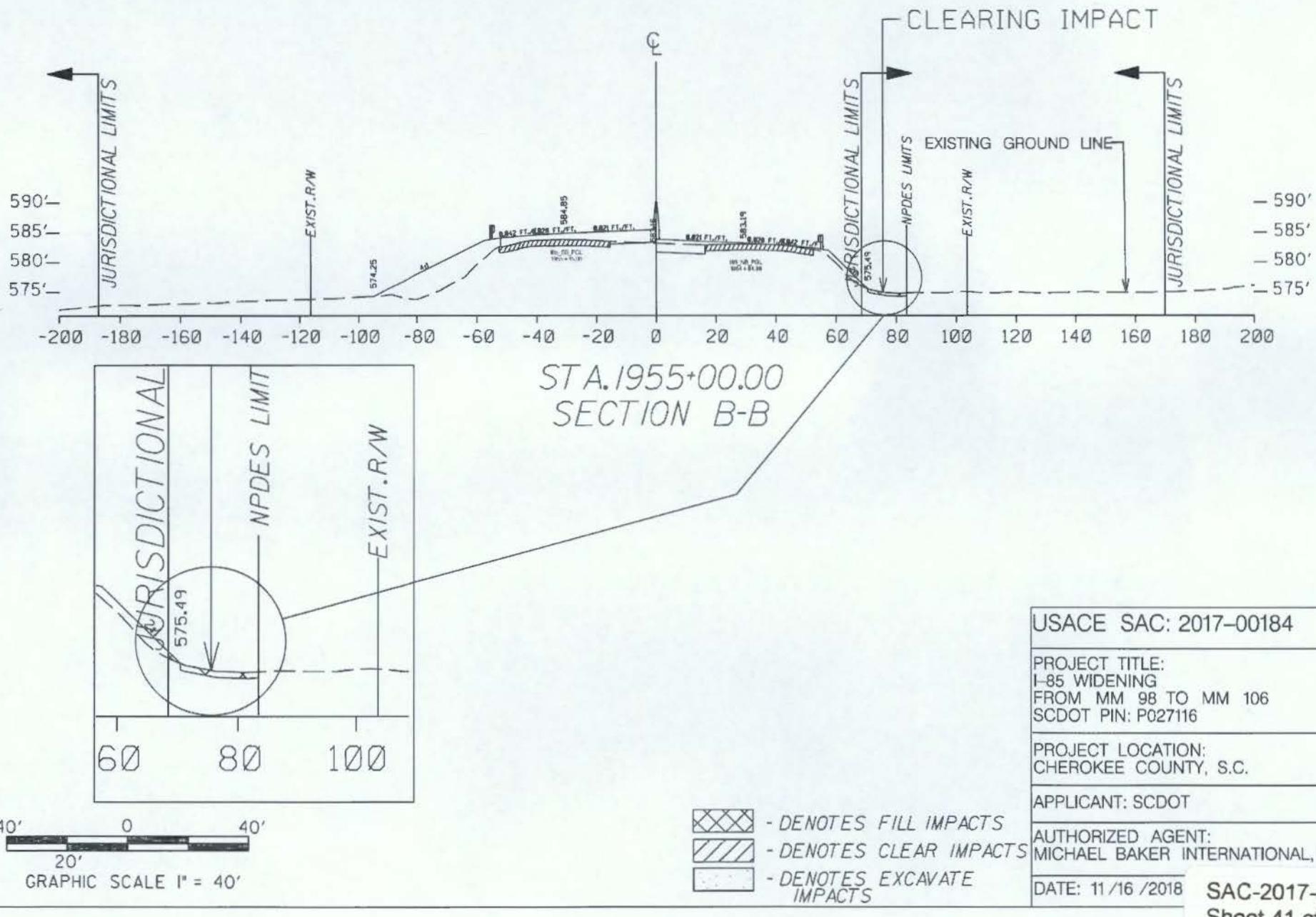


40' 0 40'
20'
GRAPHIC SCALE 1" = 40'

- [Diagonal lines pattern] - DENOTES FILL IMPACTS
- [Horizontal lines pattern] - DENOTES CLEAR IMPACTS
- [Vertical lines pattern] - DENOTES EXCAVATE IMPACTS

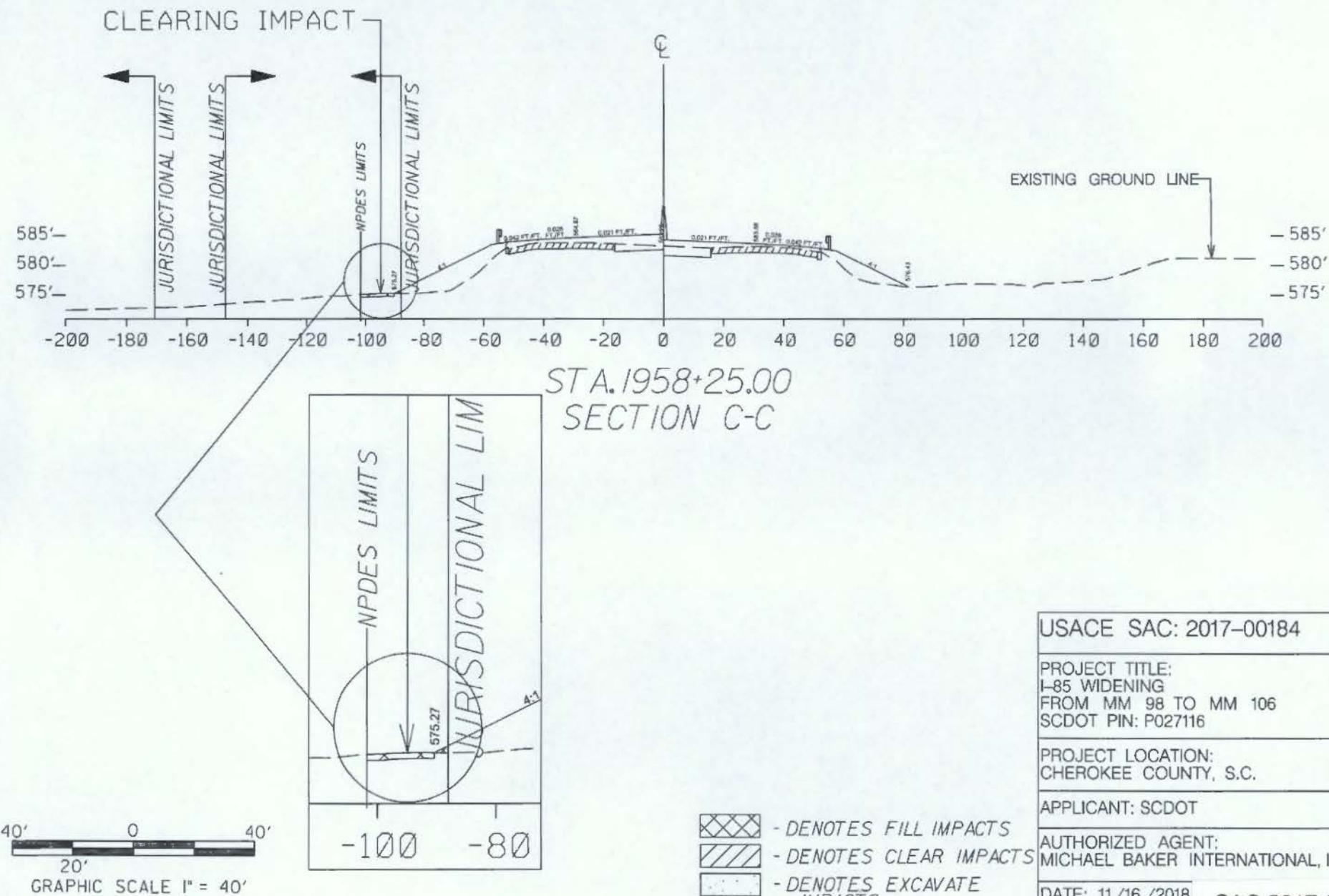
USACE SAC: 2017-00184
PROJECT TITLE: I-85 WIDENING FROM MM 98 TO MM 106 SCDOT PIN: P027116
PROJECT LOCATION: CHEROKEE COUNTY, S.C.
APPLICANT: SCDOT
AUTHORIZED AGENT: MICHAEL BAKER INTERNATIONAL, INC.
DATE: 11/16/2018
SAC-2017-00184
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SEE SHEET 24 FOR PLAN VIEW OF CROSS-SECTION B

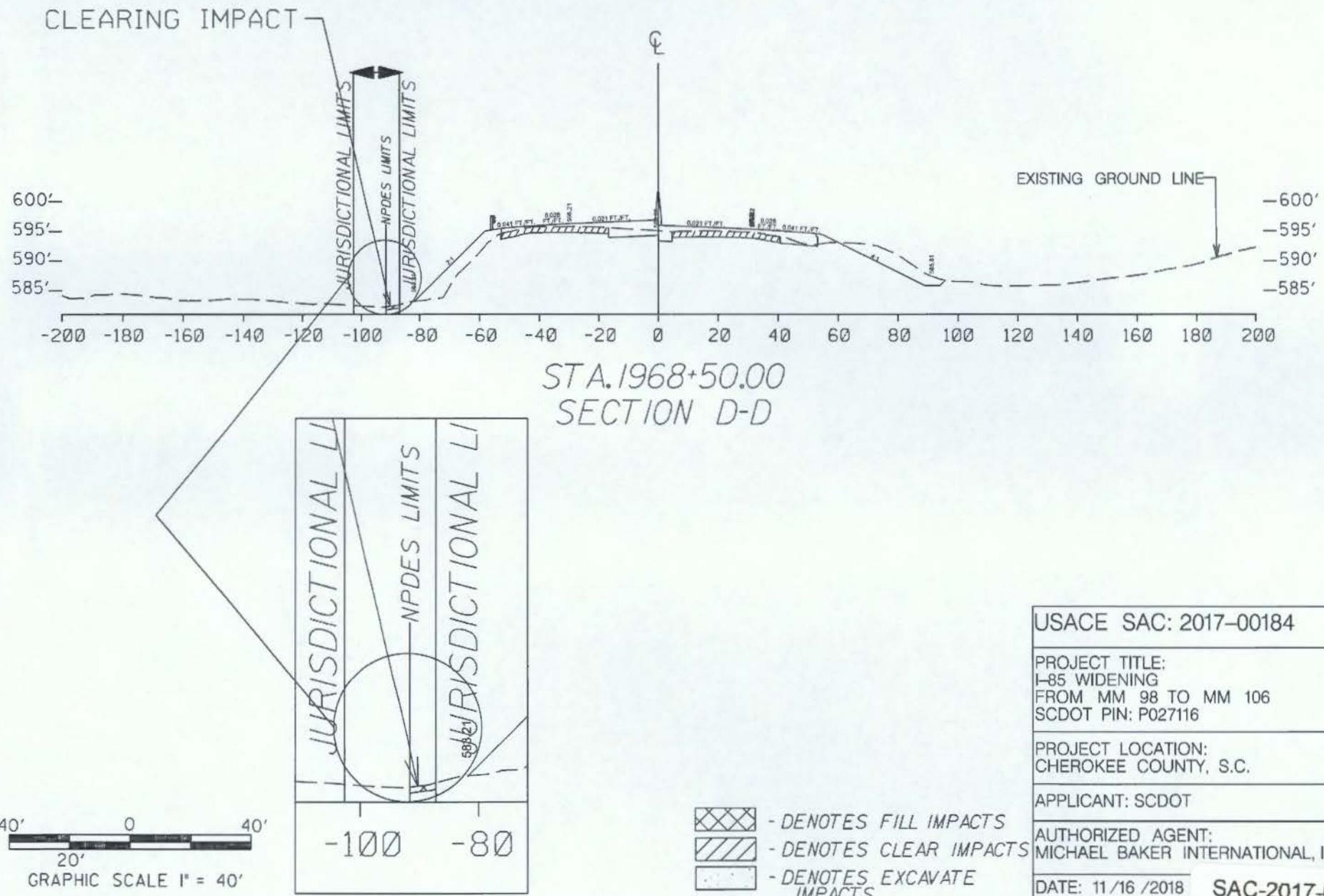


USACE SAC: 2017-00184
PROJECT TITLE: I-85 WIDENING FROM MM 98 TO MM 106 SCDOT PIN: P027116
PROJECT LOCATION: CHEROKEE COUNTY, S.C.
APPLICANT: SCDOT
AUTHORIZED AGENT: MICHAEL BAKER INTERNATIONAL, INC.
DATE: 11/16 /2018 SAC-2017-00184 SAC-11-172

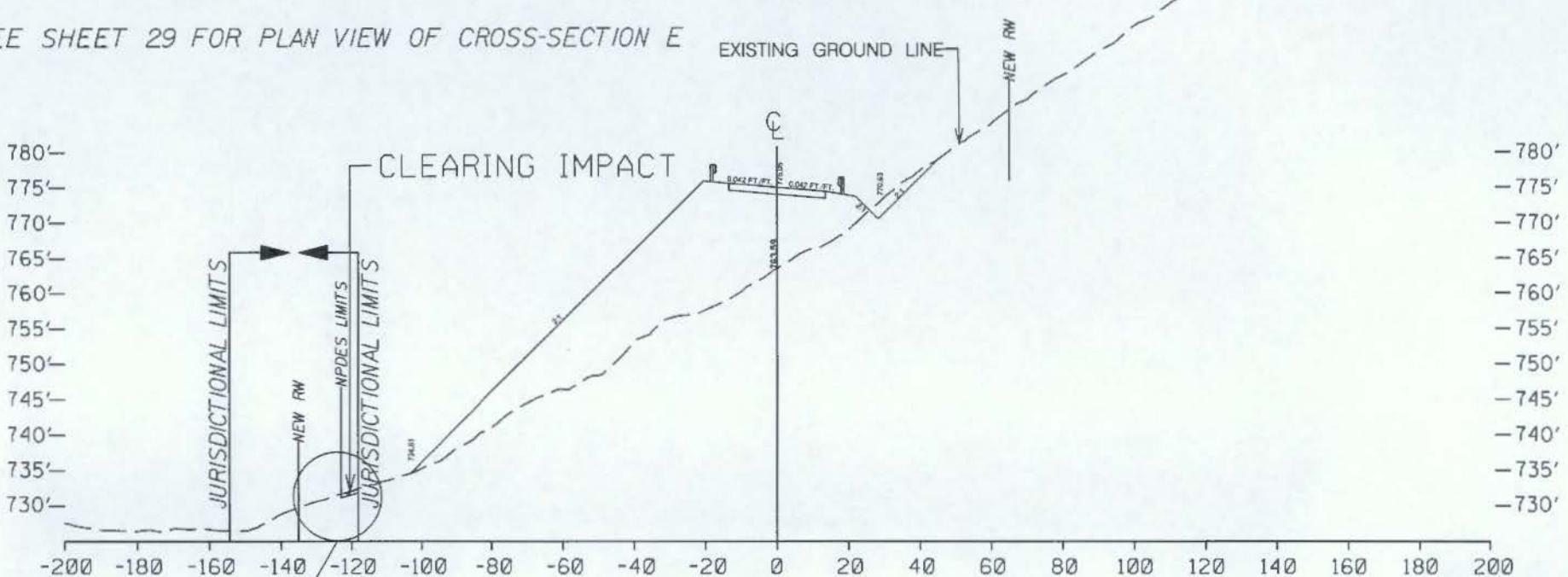
SEE SHEET 24 FOR PLAN VIEW OF CROSS-SECTION C



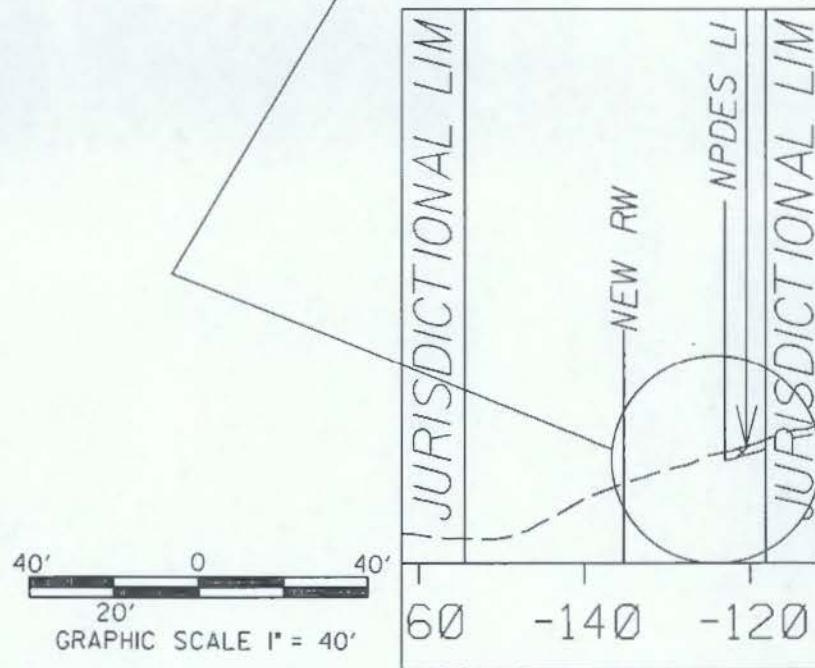
SEE SHEET 25 FOR PLAN VIEW OF CROSS-SECTION D



SEE SHEET 29 FOR PLAN VIEW OF CROSS-SECTION E



STA. 47+50.00
SECTION E-E
W (S-667)

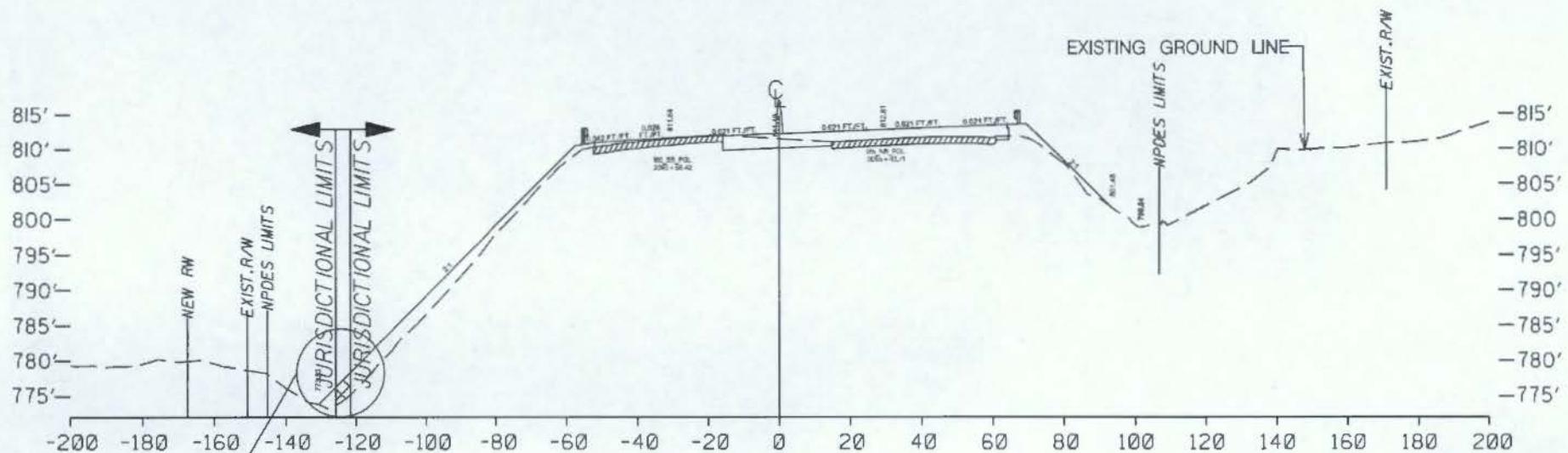


- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184	
PROJECT TITLE: I-85 WIDENING FROM MM 98 TO MM 106 SCDOT PIN: P027116	
PROJECT LOCATION: CHEROKEE COUNTY, S.C.	
APPLICANT: SCDOT	
AUTHORIZED AGENT: MICHAEL BAKER INTERNATIONAL, INC.	
DATE: 11/16/2018	SAC-2017-00184

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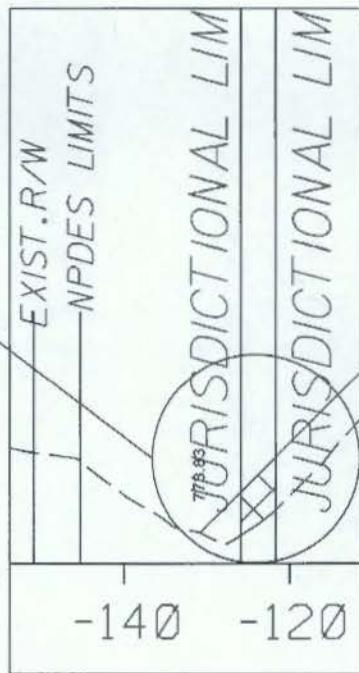
SEE SHEET 30 FOR PLAN VIEW OF CROSS-SECTION F



STA. 2065+50.00

SECTION F-F

40' 0' 40'
20' 0' 20'
GRAPHIC SCALE 1" = 40'

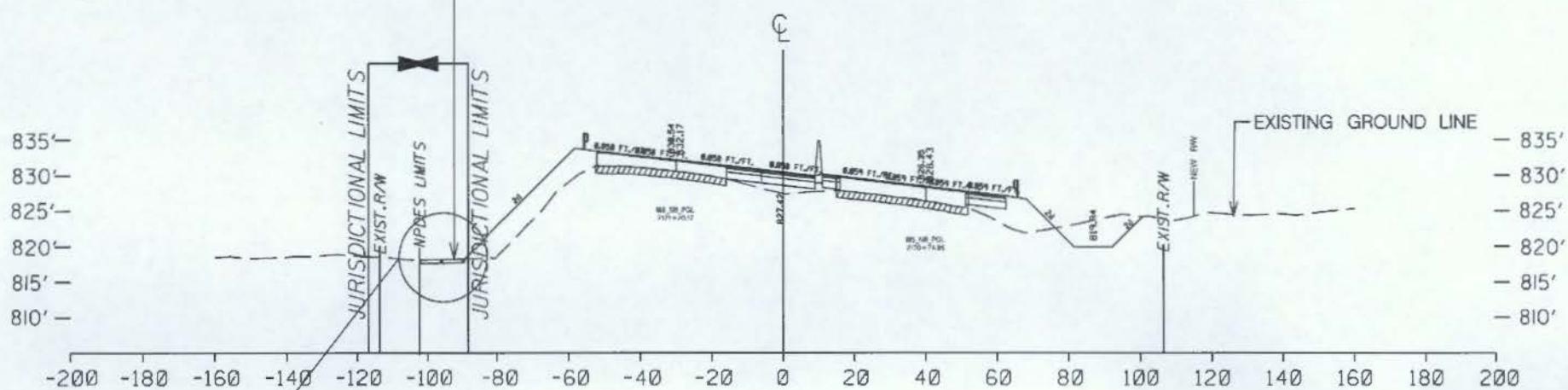


- [Hatched Box] - DENOTES FILL IMPACTS
- [Cross-hatched Box] - DENOTES CLEAR IMPACTS
- [White Box] - DENOTES EXCAVATE IMPACTS

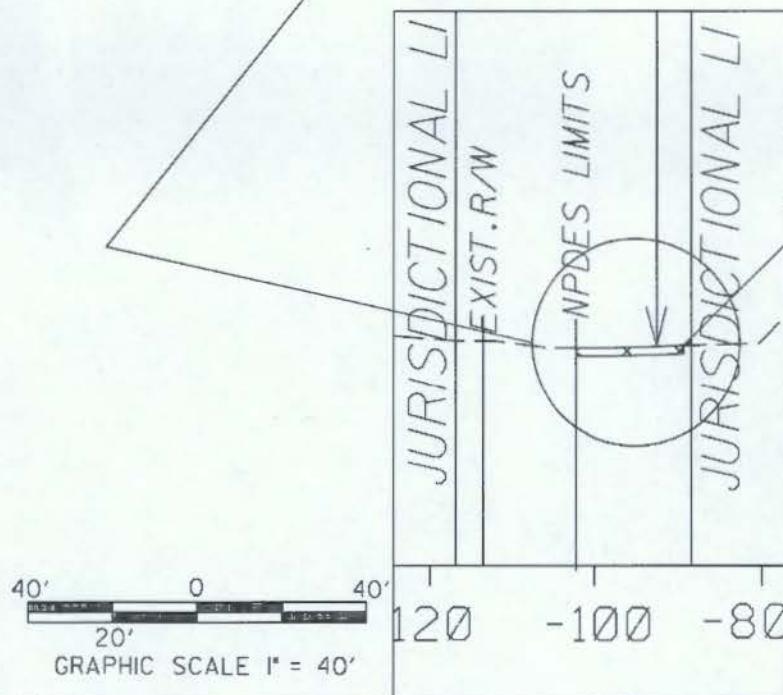
USACE SAC: 2017-00184
PROJECT TITLE: I-85 WIDENING FROM MM 98 TO MM 106 SCDOT PIN: P027116
PROJECT LOCATION: CHEROKEE COUNTY, S.C.
APPLICANT: SCDOT
AUTHORIZED AGENT: MICHAEL BAKER INTERNATIONAL, INC.
DATE: 11/16/2018

SEE SHEET 35 FOR PLAN VIEW OF CROSS-SECTION G

CLEARING IMPACT



STA. 2171+00.00
SECTION G-G

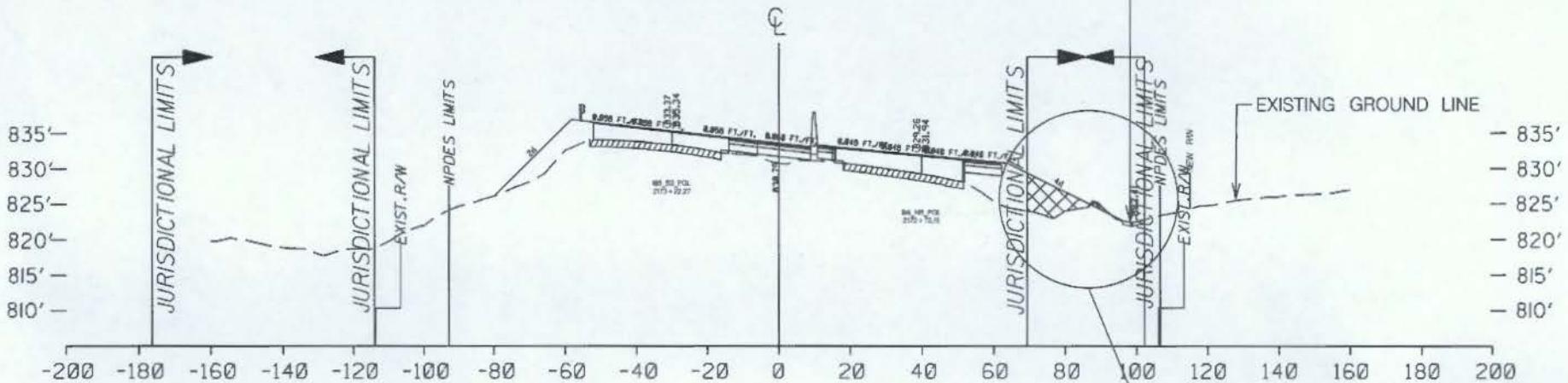


- [Diagonal lines] - DENOTES FILL IMPACTS
- [Horizontal lines] - DENOTES CLEAR IMPACTS
- [Vertical lines] - DENOTES EXCAVATE IMPACTS

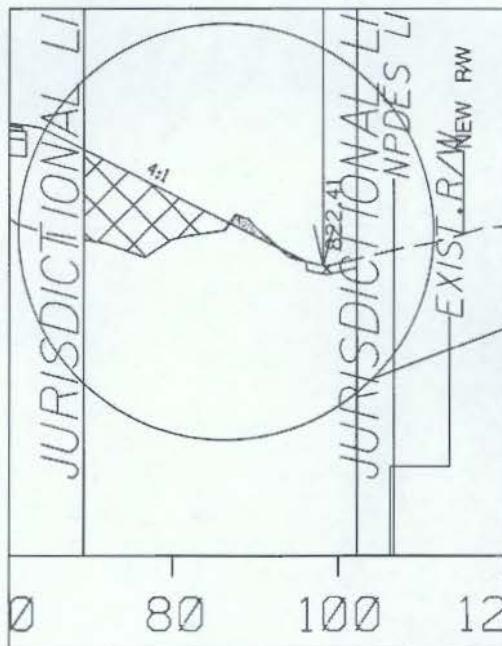
USACE SAC: 2017-00184
PROJECT TITLE: I-85 WIDENING FROM MM 98 TO MM 106 SCDOT PIN: P027116
PROJECT LOCATION: CHEROKEE COUNTY, S.C.
APPLICANT: SCDOT
AUTHORIZED AGENT: MICHAEL BAKER INTERNATIONAL, INC.
DATE: 11/16 /2018
SAC-2017-00184
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SEE SHEET 35 FOR PLAN VIEW OF CROSS-SECTION H

CLEARING IMPACT



STA. 2173+00.00
SECTION H-H

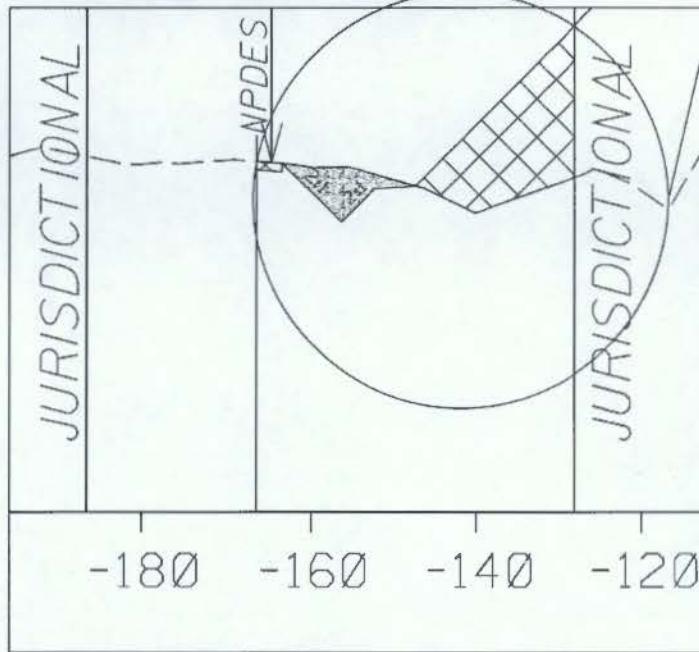
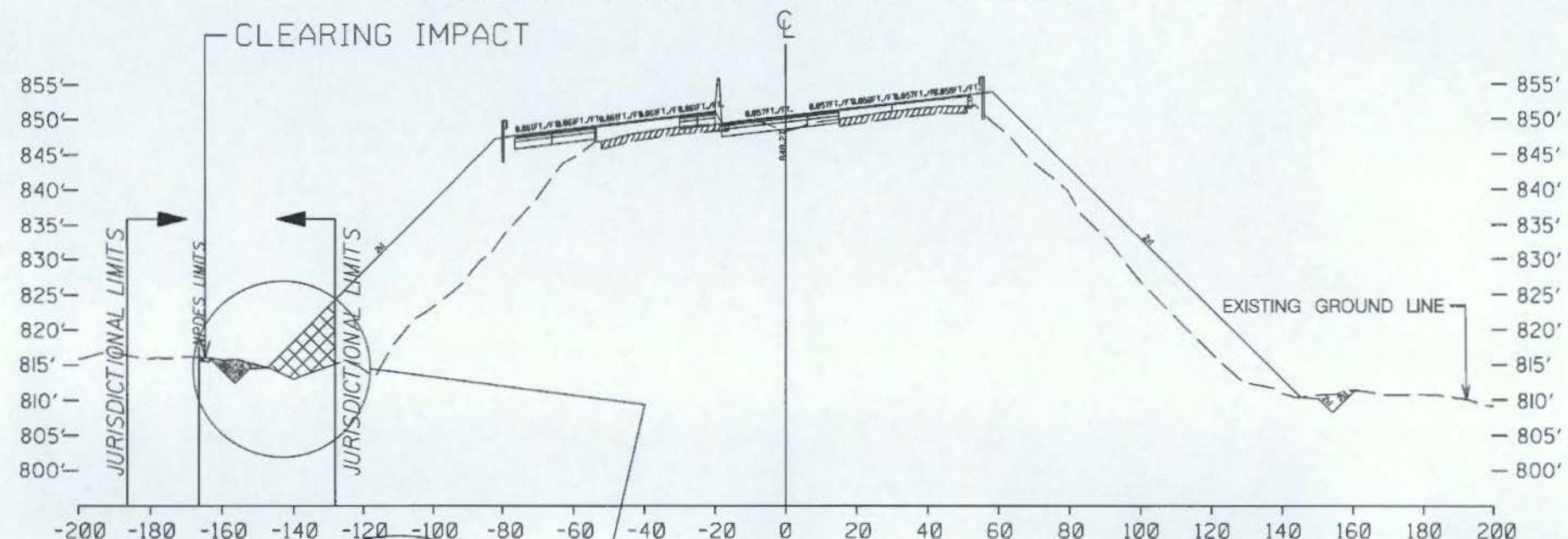


40'
0
20'
40'
GRAPHIC SCALE 1" = 40'

- [Diamond pattern] - DENOTES FILL IMPACTS
- [Horizontal lines] - DENOTES CLEAR IMPACTS
- [Vertical lines] - DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184
PROJECT TITLE: I-85 WIDENING FROM MM 98 TO MM 106 SCDOT PIN: P027116
PROJECT LOCATION: CHEROKEE COUNTY, S.C.
APPLICANT: SCDOT
AUTHORIZED AGENT: MICHAEL BAKER INTERNATIONAL, INC.
DATE: 11/16/2018

SEE SHEET 36 FOR PLAN VIEW OF CROSS-SECTION 1

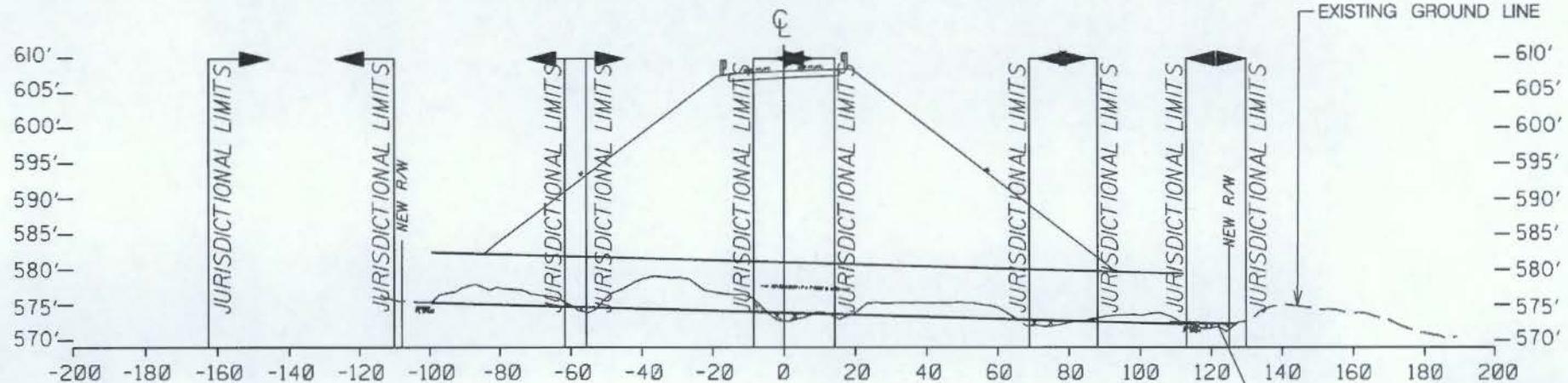


40' 0 40'
20'
GRAPHIC SCALE 1" = 40'

- [Diagonal lines] - DENOTES FILL IMPACTS
- [Horizontal lines] - DENOTES CLEAR IMPACTS
- [Vertical lines] - DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184
PROJECT TITLE: I-85 WIDENING FROM MM 98 TO MM 106 SCDOT PIN: P027116
PROJECT LOCATION: CHEROKEE COUNTY, S.C.
APPLICANT: SCDOT
AUTHORIZED AGENT: MICHAEL BAKER INTERNATIONAL, INC.
DATE: 11/16/2018

SEE SHEET 19 FOR PLAN VIEW OF PIPE NP 39-1



STA. 30+53.91
NP 39-1
7' x 7' RCBC
211.71'

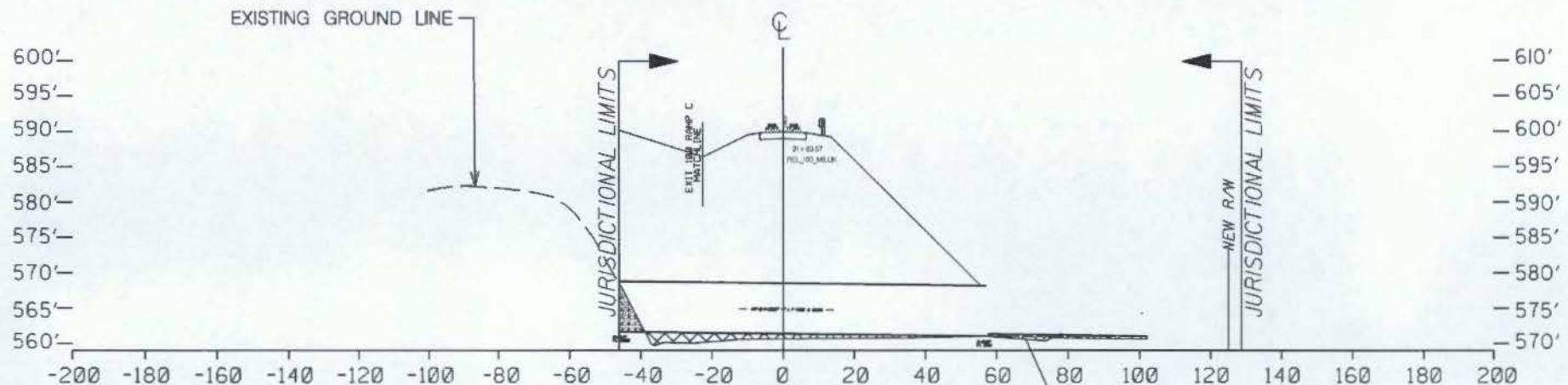
40' 0 40'
20'
GRAPHIC SCALE 1" = 40'

- [Diagonal lines pattern] - DENOTES FILL IMPACTS
- [Horizontal lines pattern] - DENOTES CLEAR IMPACTS
- [Vertical lines pattern] - DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184
PROJECT TITLE: I-85 WIDENING FROM MM 98 TO MM 106 SCDOT PIN: P027116
PROJECT LOCATION: CHEROKEE COUNTY, S.C.
APPLICANT: SCDOT
AUTHORIZED AGENT: MICHAEL BAKER INTERNATIONAL, INC.
DATE: 11/16/2018

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SEE SHEET 20 FOR PLAN VIEW OF PIPE NP 12-4



STA. 21+69.57
NP 12-4
7' x 7' RCBC
103.27'

40' 0 40'
20'
GRAPHIC SCALE 1" = 40'

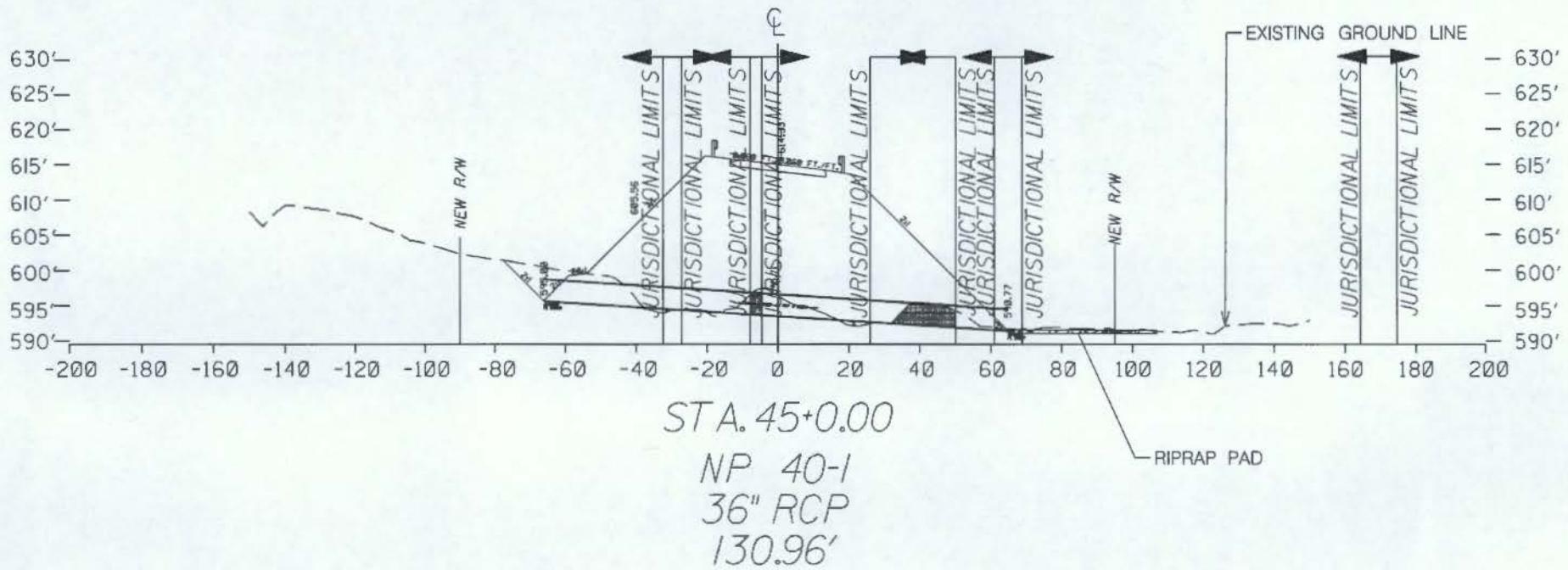
- [Diagonal lines pattern] - DENOTES FILL IMPACTS
- [Horizontal lines pattern] - DENOTES CLEAR IMPACTS
- [Vertical lines pattern] - DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184
PROJECT TITLE: I-85 WIDENING FROM MM 98 TO MM 106 SCDOT PIN: P027116
PROJECT LOCATION: CHEROKEE COUNTY, S.C.
APPLICANT: SCDOT
AUTHORIZED AGENT: MICHAEL BAKER INTERNATIONAL, INC.
DATE: 11/16/2018

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SEE SHEET 21 FOR PLAN VIEW OF PIPE NP 40-1



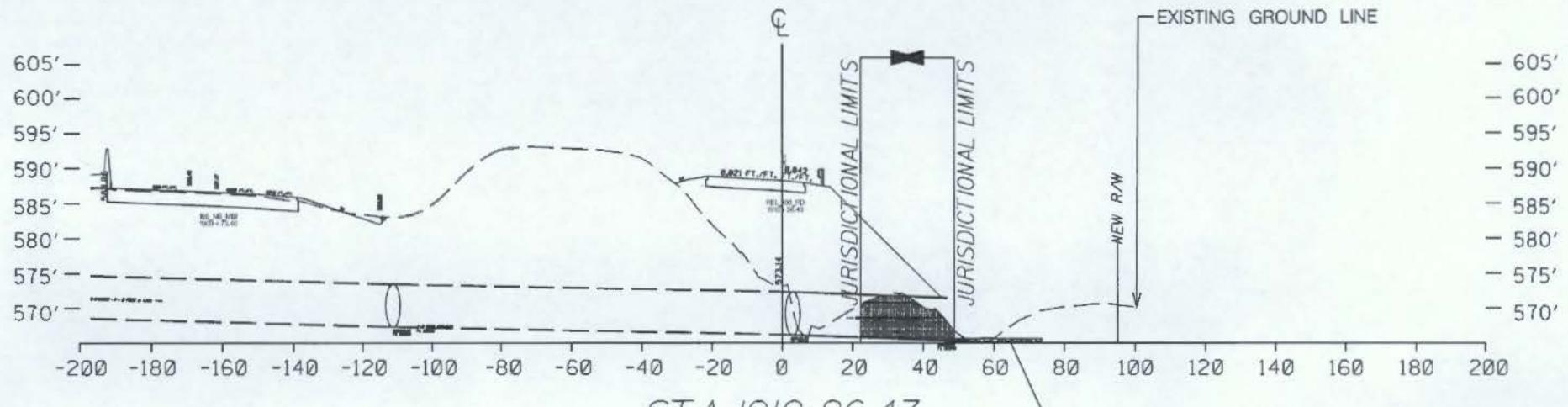
40' 0 40'
20'
GRAPHIC SCALE 1" = 40'

- [X] - DENOTES FILL IMPACTS
- [/] - DENOTES CLEAR IMPACTS
- [■] - DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184
PROJECT TITLE: I-85 WIDENING FROM MM 98 TO MM 106 SCDOT PIN: P027116
PROJECT LOCATION: CHEROKEE COUNTY, S.C.
APPLICANT: SCDOT
AUTHORIZED AGENT: MICHAEL BAKER INTERNATIONAL INC.
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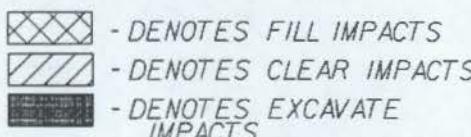
NOTE: EXISTING CHANNEL IS OFFSET FROM PIPE CENTERLINE.

SEE SHEET 22 FOR PLAN VIEW OF PIPE NP 12-8



STA. 1910+26.43
NP 12-8
4' X 6' RCBC
43.99'

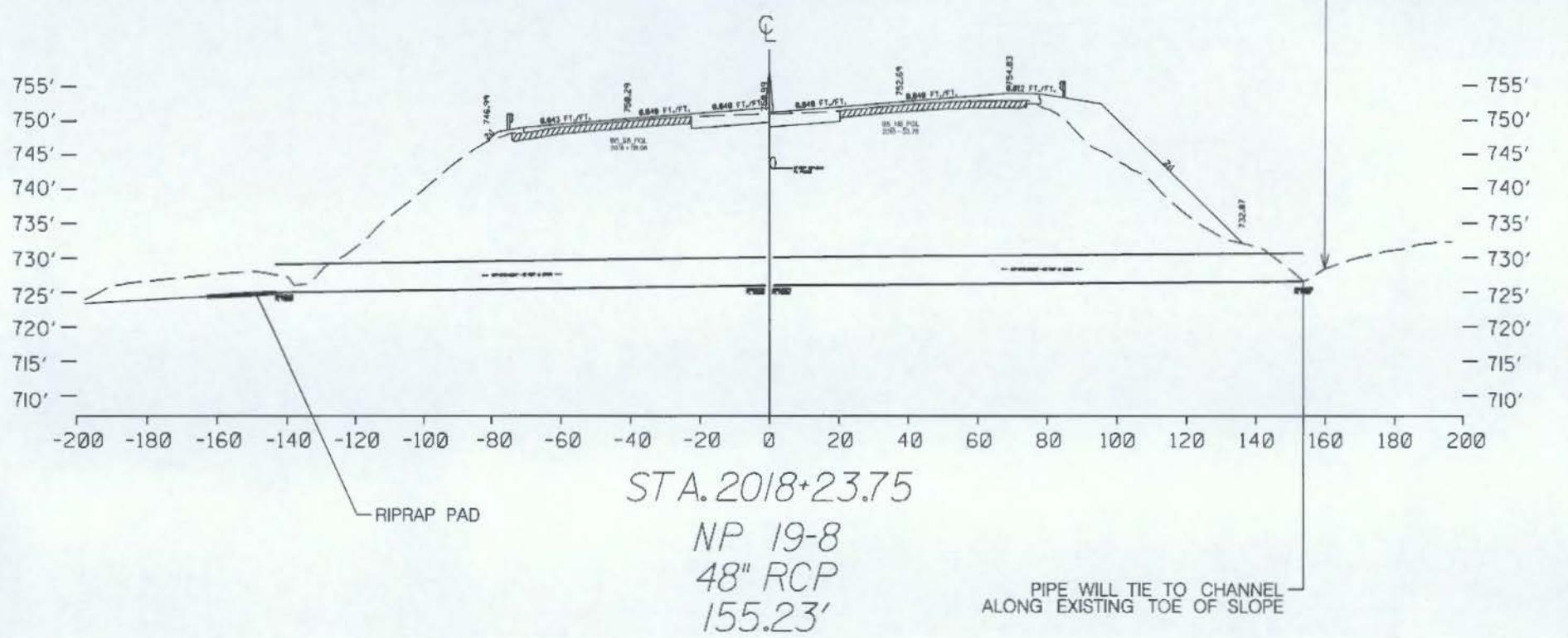
A horizontal scale bar with tick marks at 40', 0, and 40'. Below the scale, the text "GRAPHIC SCALE 1' = 40'" is written.



USACE SAC: 2017-00184	
PROJECT TITLE: I-85 WIDENING FROM MM 98 TO MM 106 SCDOT PIN: P027116	
PROJECT LOCATION: CHEROKEE COUNTY, S.C.	
APPLICANT: SCDOT	
AUTHORIZED AGENT: MICHAEL BAKER INTERNATIONAL, INC.	
DATE:	11/16 /2018
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NOTE: EXISTING CHANNEL IS OFFSET FROM PIPE CENTERLINE.

SEE SHEET 26 FOR PLAN VIEW OF PIPE NP 19-8



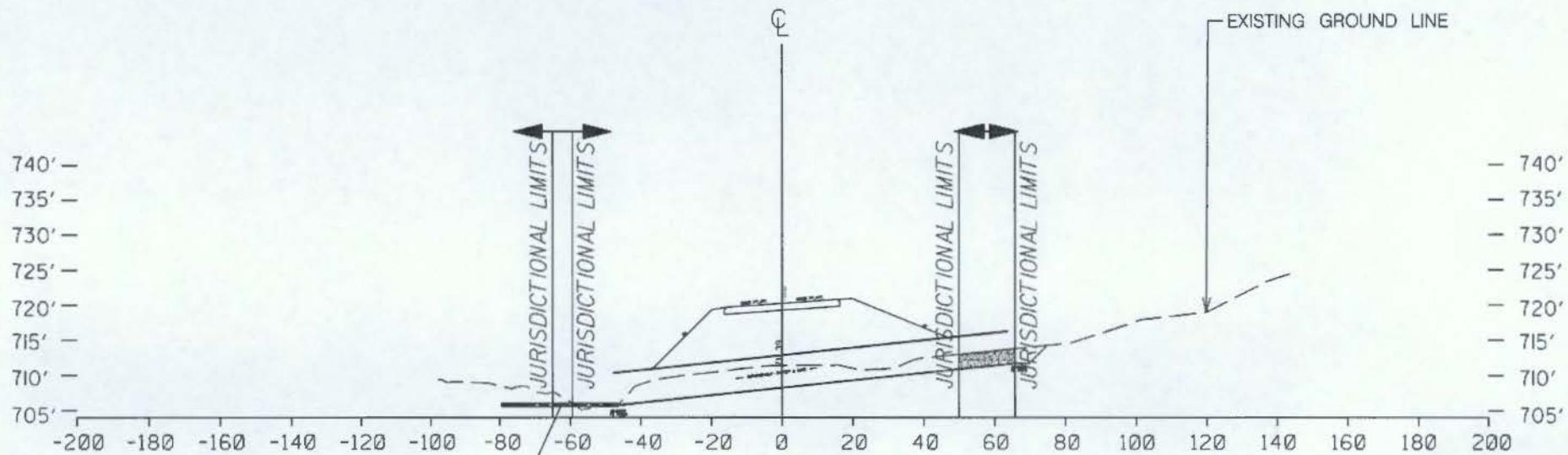
A horizontal scale bar with markings at 40', 0, and 40'. Below it, the text "GRAPHIC SCALE 1' = 40'" is written.



- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACT
- DENOTES EXCAVATE
IMPACTS

USACE SAC: 2017-00184	
PROJECT TITLE: I-85 WIDENING FROM MM 98 TO MM 106 SCDOT PIN: P027116	
PROJECT LOCATION: CHEROKEE COUNTY, S.C.	
APPLICANT: SCDOT	
AUTHORIZED AGENT: MICHAEL BAKER INTERNATIONAL, INC.	
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SEE SHEET 26 FOR PLAN VIEW OF PIPE NP 19-10



STA. 24+64.50

NP 19-10
54" RCP
115.JJ'

40' 0 40'
20'
GRAPHIC SCALE 1" = 40'

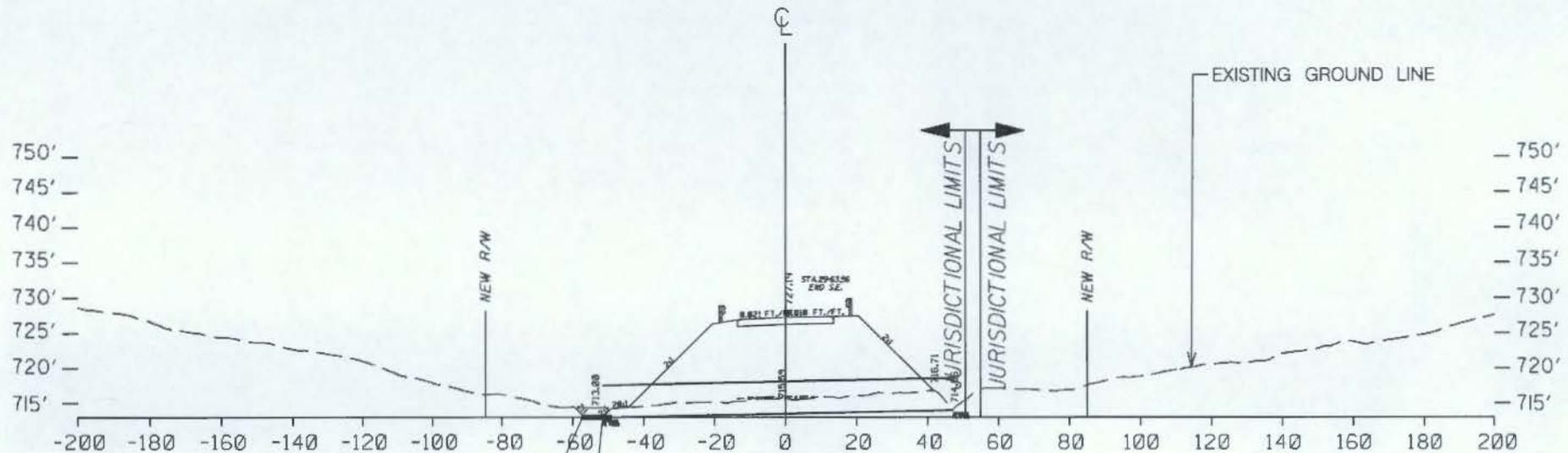
- [Diagonal lines pattern] - DENOTES FILL IMPACTS
- [Horizontal lines pattern] - DENOTES CLEAR IMPACTS
- [Vertical lines pattern] - DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184
PROJECT TITLE: I-85 WIDENING FROM MM 98 TO MM 106 SCDOT PIN: P027116
PROJECT LOCATION: CHEROKEE COUNTY, S.C.
APPLICANT: SCDOT
AUTHORIZED AGENT: MICHAEL BAKER INTERNATIONAL, INC.
DATE: 11/16/2018

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NOTE: EXISTING CHANNEL IS OFFSET FROM PIPE CENTERLINE.

SEE SHEET 26 FOR PLAN VIEW OF PIPE NP 43-I



40'
0
40'
20'
GRAPHIC SCALE 1" = 40'

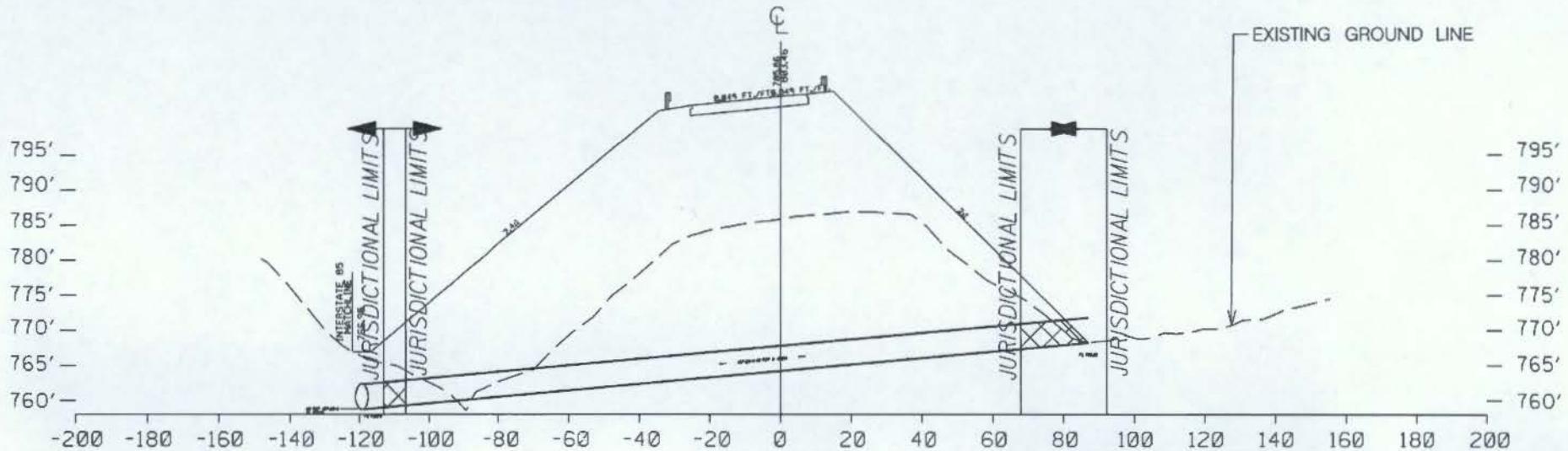
- [Diagonal lines] - DENOTES FILL IMPACTS
- [Horizontal lines] - DENOTES CLEAR IMPACTS
- [Vertical lines] - DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184
PROJECT TITLE: I-85 WIDENING FROM MM 98 TO MM 106 SCDOT PIN: P027116
PROJECT LOCATION: CHEROKEE COUNTY, S.C.
APPLICANT: SCDOT
AUTHORIZED AGENT: MICHAEL BAKER INTERNATIONAL, INC.
DATE: 11/16/2018

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NOTE: EXISTING CHANNEL IS OFFSET FROM PIPE CENTERLINE.

SEE SHEET 28 FOR PLAN VIEW OF PIPE NP 20-4



STA. 2029+86.45

NP 20-4
42" RCP
167.62'

40'
0
40'
20'
GRAPHIC SCALE 1" = 40'

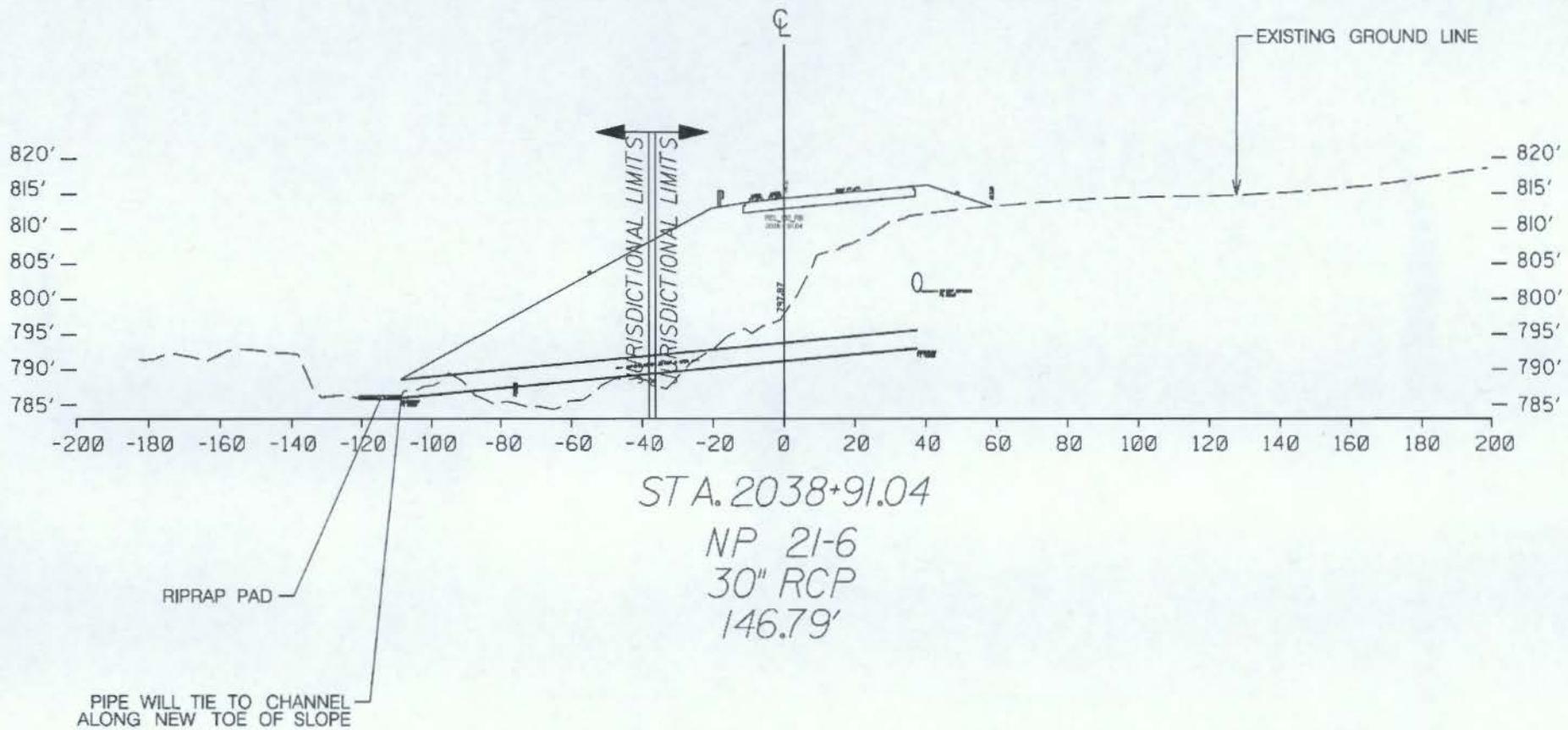
- [X] - DENOTES FILL IMPACTS
- [/] - DENOTES CLEAR IMPACTS
- [] - DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184
PROJECT TITLE: I-85 WIDENING FROM MM 98 TO MM 106 SCDOT PIN: P027116
PROJECT LOCATION: CHEROKEE COUNTY, S.C.
APPLICANT: SCDOT
AUTHORIZED AGENT: MICHAEL BAKER INTERNATIONAL, INC.
DATE: 11/16/2018

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NOTE: EXISTING CHANNEL IS OFFSET FROM PIPE CENTERLINE.

SEE SHEET 28 FOR PLAN VIEW OF PIPE NP 2I-6



USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

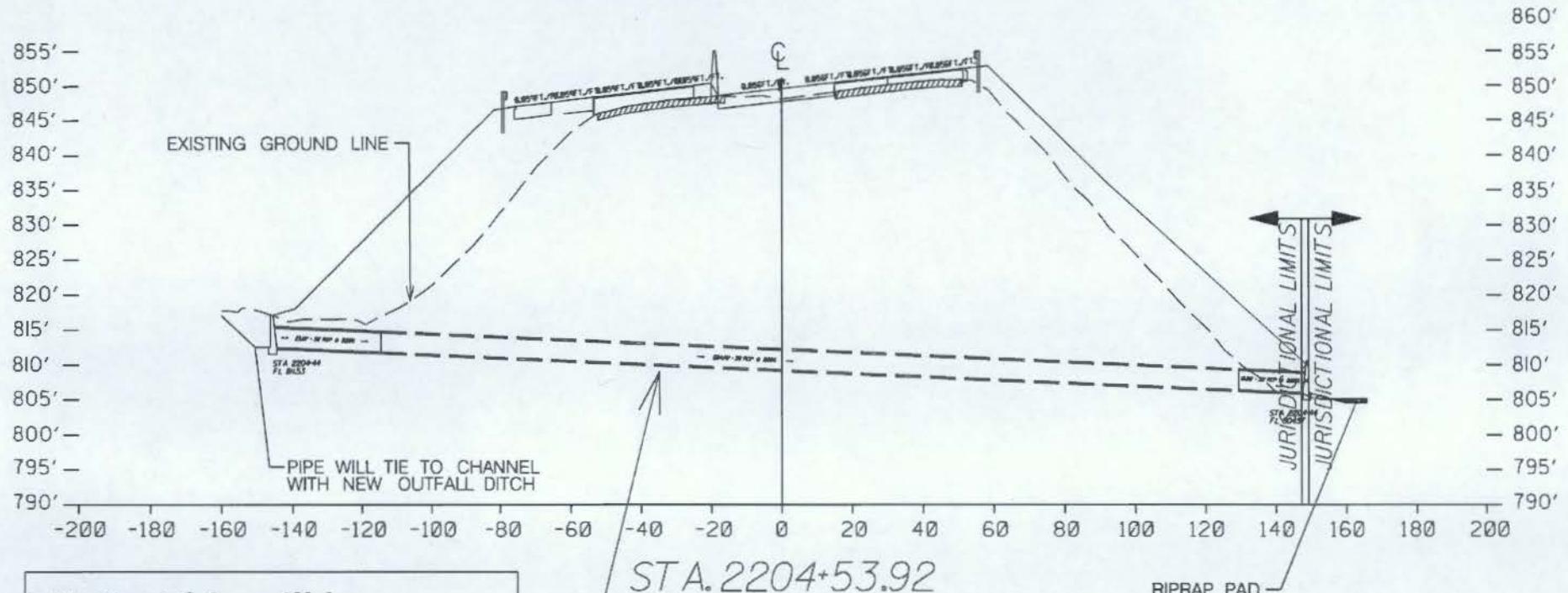
- [Diamond pattern] - DENOTES FILL IMPACTS
- [Cross-hatch pattern] - DENOTES CLEAR IMPACTS
- [Solid black box] - DENOTES EXCAVATE IMPACTS

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NOTE: EXISTING CHANNEL IS OFFSET FROM PIPE CENTERLINE.

SEE SHEET 36 FOR PLAN VIEW OF PIPE NP 32-9



**Note: This will be a
jack/bore and will be
nearly at the same slope
and location of the
existing pipe.**

STA. 2204+53.92
NP 32-9
36" RCP
45.55

40'
0
40'
20'
GRAPHIC SCALE 1" = 40'

- [Diagonal lines] - DENOTES FILL IMPACTS
- [Horizontal lines] - DENOTES CLEAR IMPACTS
- [Vertical lines] - DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

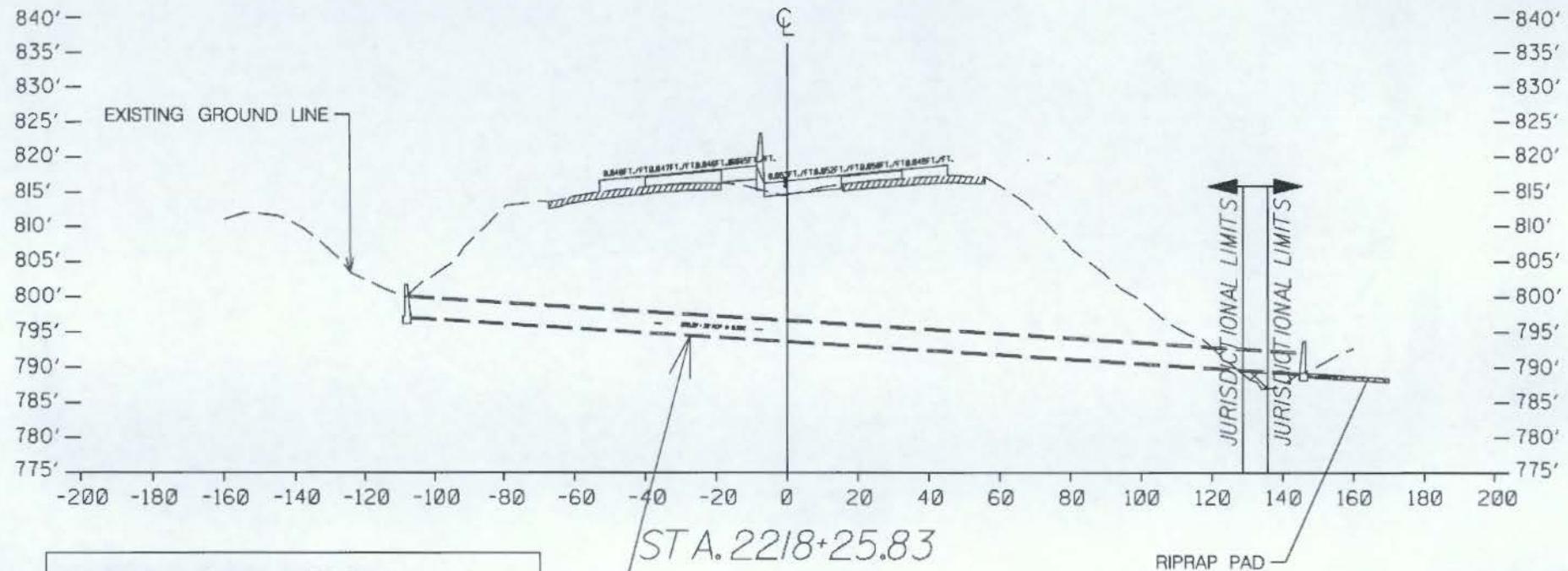
APPLICANT: SCDOT

AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

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NOTE: EXISTING CHANNEL IS OFFSET FROM PIPE CENTERLINE.



SEE SHEET 37 FOR PLAN VIEW OF PIPE NP 33-20

40' 0 40'
20'
GRAPHIC SCALE 1" = 40'

- [Diagonal lines] - DENOTES FILL IMPACTS
- [Cross-hatch] - DENOTES CLEAR IMPACTS
- [Horizontal lines] - DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

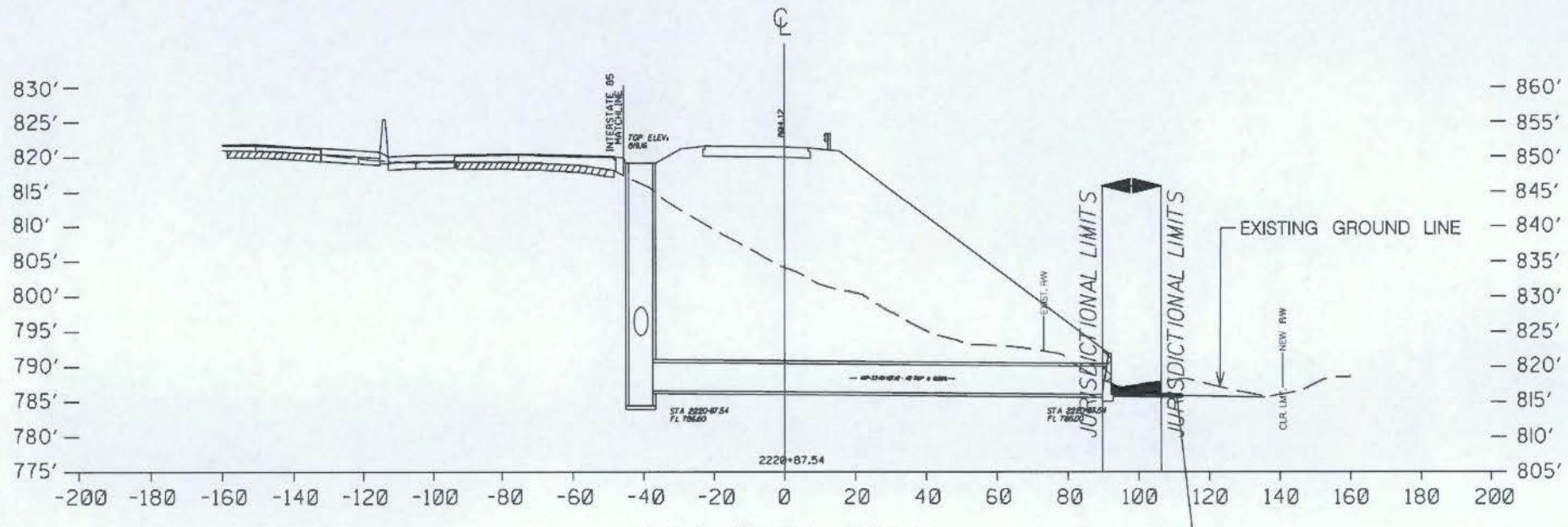
AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

DATE: 11/16/2018

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NOTE: EXISTING CHANNEL IS OFFSET FROM PIPE CENTERLINE.



STA. 2220+87.54

NP 33-19
48" RCP
127.12'

SEE SHEET 37 FOR PLAN VIEW OF PIPE NP 33-19

40' 0 40'
20'
GRAPHIC SCALE 1" = 40'

- DENOTES FILL IMPACTS
- DENOTES CLEAR IMPACTS
- DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

AUTHORIZED AGENT:
MICHAEL BAKER INTERNATIONAL, INC.

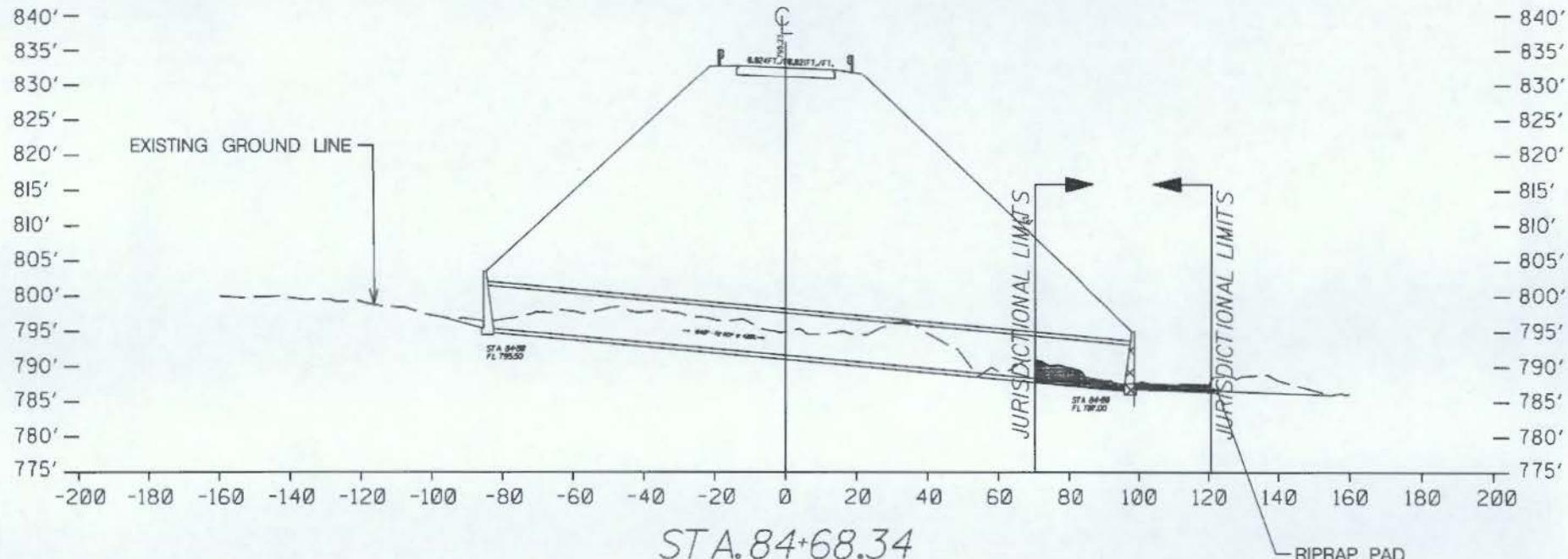
DATE: 11/16/2018

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NOTE: EXISTING CHANNEL IS OFFSET FROM PIPE CENTERLINE.

SEE SHEET 39 FOR PLAN VIEW OF PIPE NP 56-2



STA. 84+68.34

NP 56-2
72" RCP
184.67'

40' 0 40'
20'
GRAPHIC SCALE 1" = 40'

- [X] - DENOTES FILL IMPACTS
- [/] - DENOTES CLEAR IMPACTS
- [■] - DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

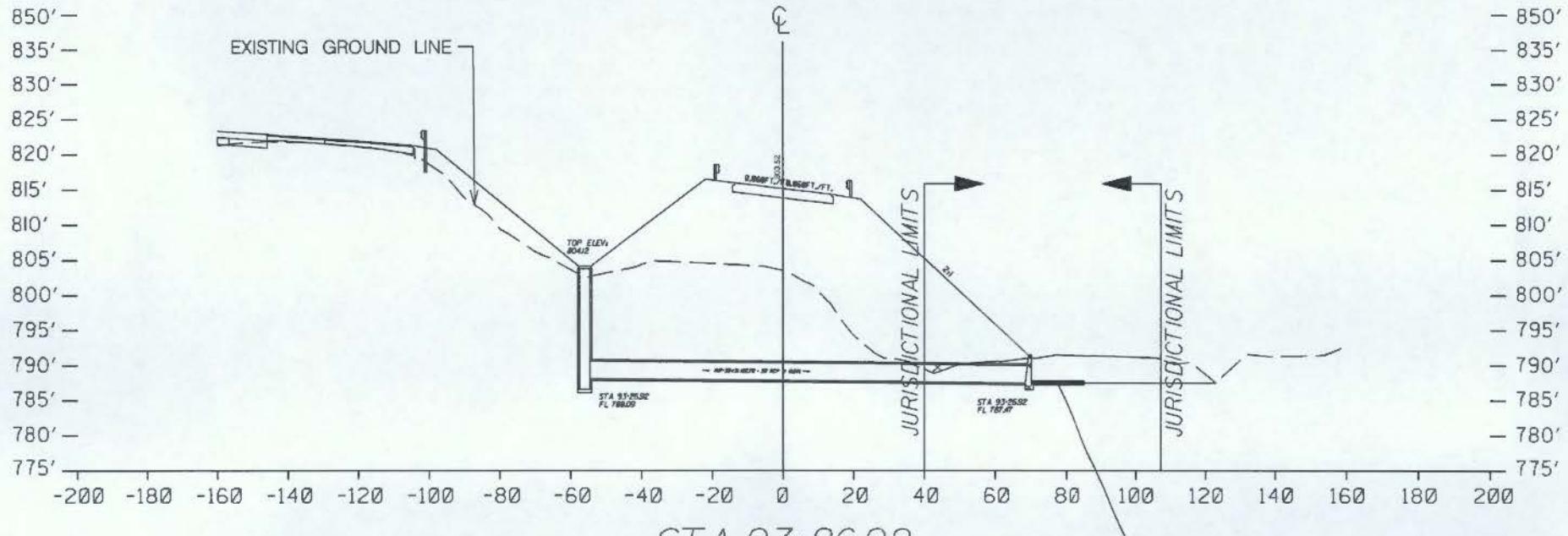
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DATE: 11/16/2018

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SEE SHEET 39 FOR PLAN VIEW OF PIPE NP 35-13



STA. 93+26.92
NP 35-13
30" RCP
122.70'

40'
0
40'
20'
GRAPHIC SCALE 1" = 40'

- [Diagonal lines] - DENOTES FILL IMPACTS
- [Vertical lines] - DENOTES CLEAR IMPACTS
- [Horizontal lines] - DENOTES EXCAVATE IMPACTS

USACE SAC: 2017-00184

PROJECT TITLE:
I-85 WIDENING
FROM MM 98 TO MM 106
SCDOT PIN: P027116

PROJECT LOCATION:
CHEROKEE COUNTY, S.C.

APPLICANT: SCDOT

AUTHORIZED AGENT:
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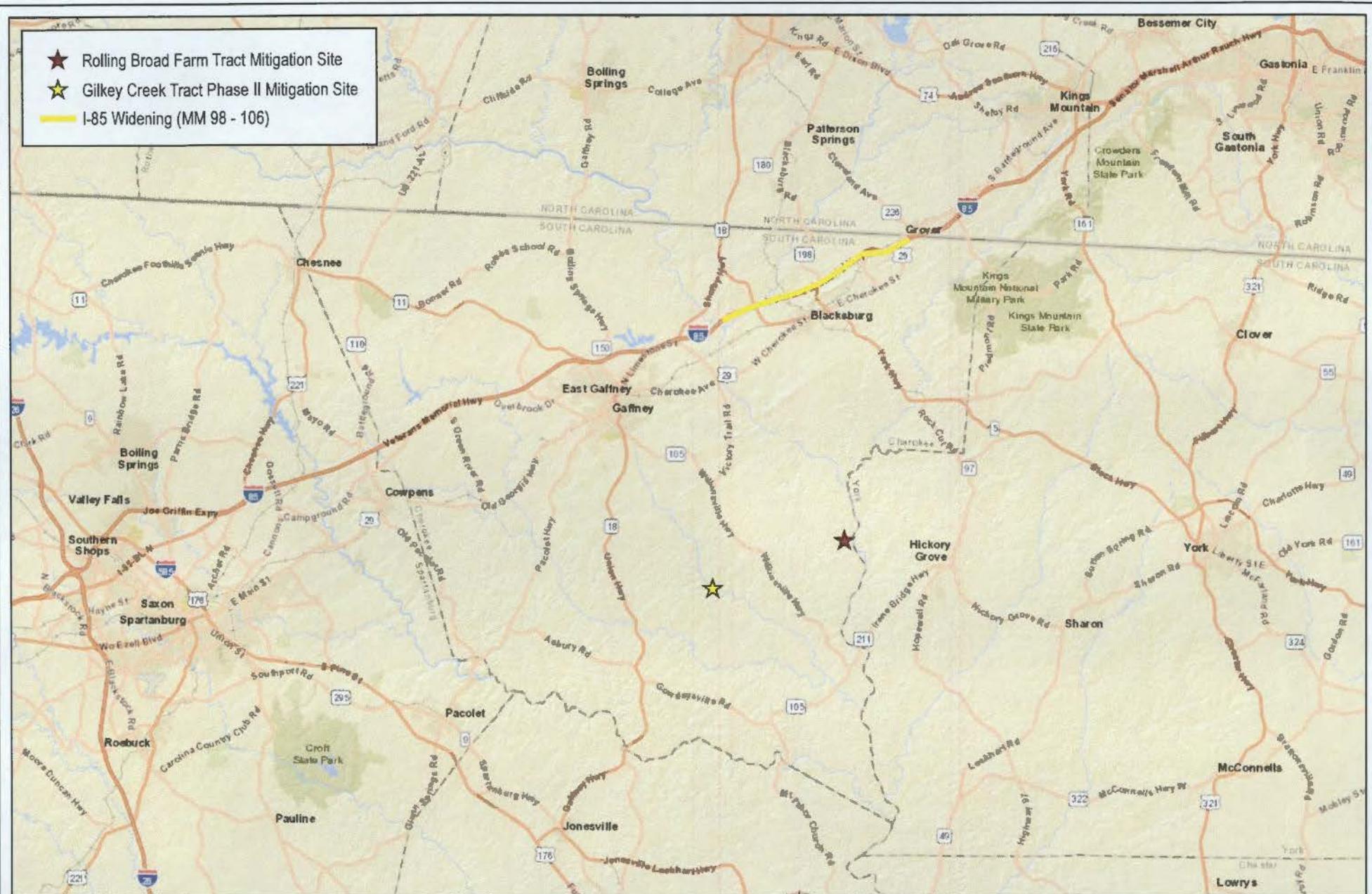


Figure 1: Vicinity Map
I-85 Widening from MM 98 - 106
Conceptual Mitigation Plan
Cherokee County, South Carolina
Source: ESRI, SCDOT
Date: October 2018

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1 inch = 5 miles
0 2.5 5 10 Miles



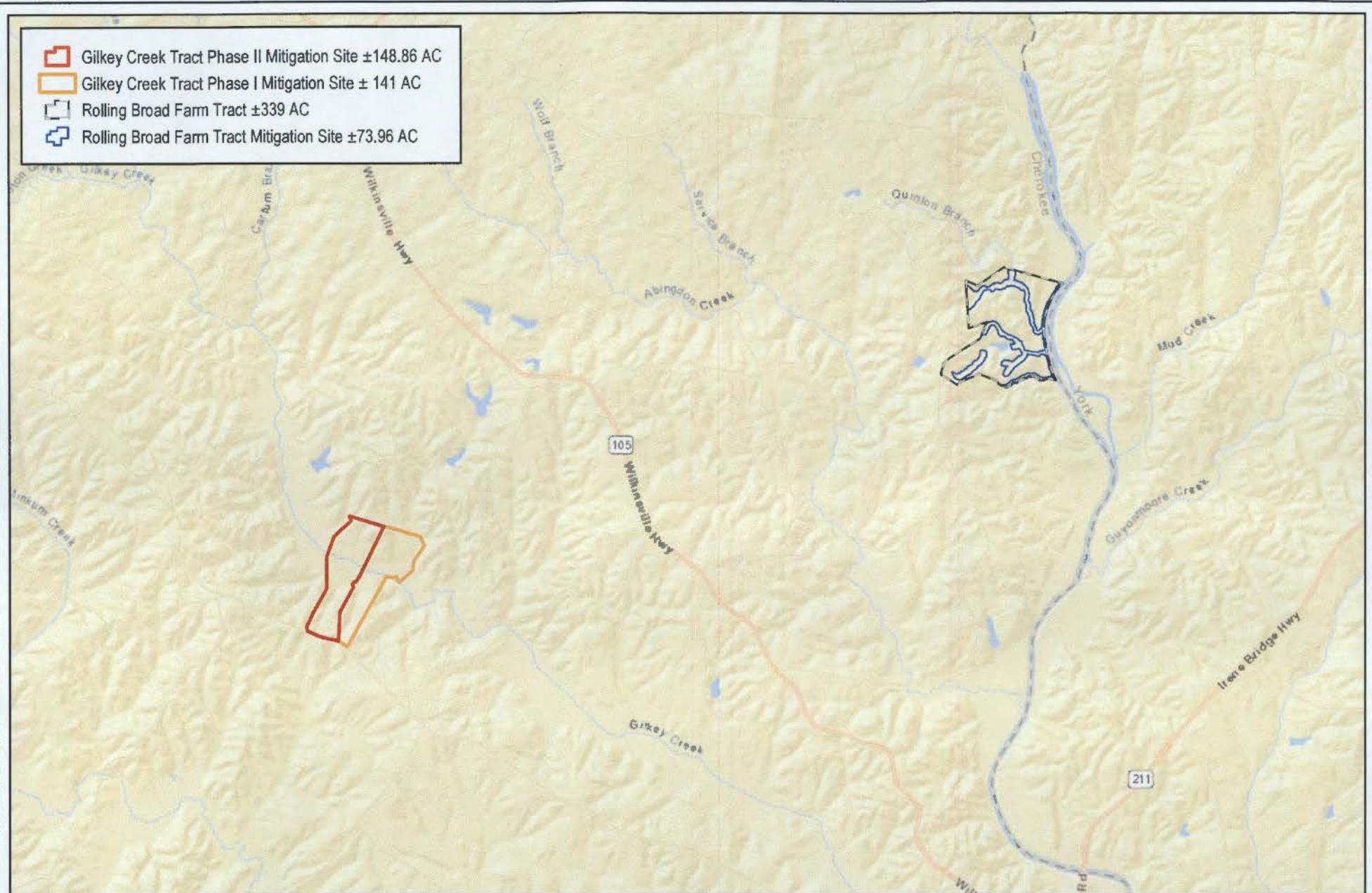


Figure 2: Location Map
I-85 Widening from MM 98 - 106
Conceptual Mitigation Plan
Cherokee County, South Carolina
Source: ESRI
Date: October 2018

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1 inch = 1 miles

0 0.5 1 2 Miles



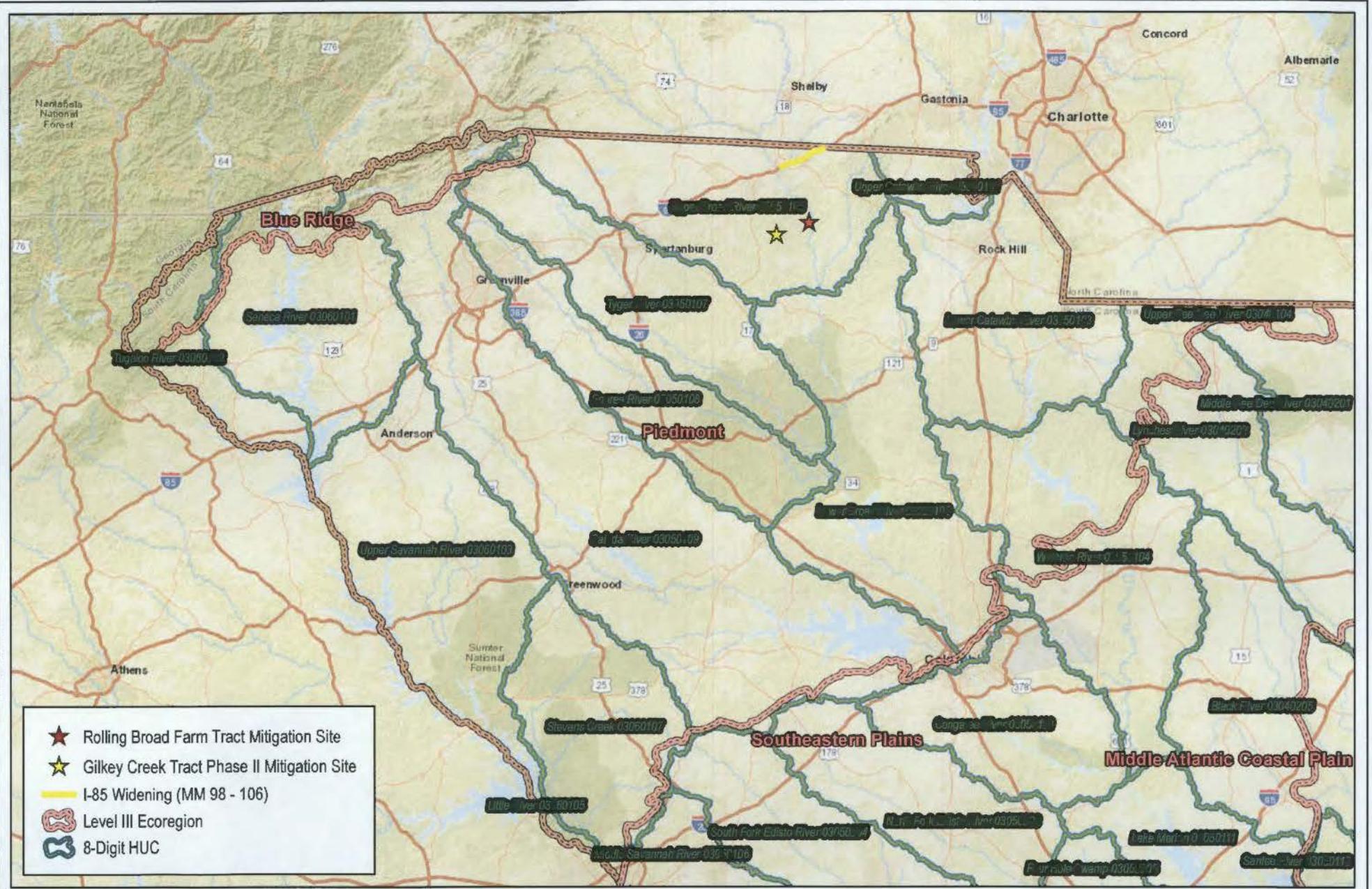


Figure 3: 8-Digit HUC and Level III Ecoregion Map

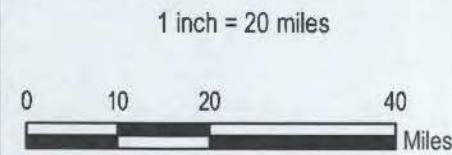
I-85 Widening from MM 98 - 106

Conceptual Mitigation Plan

Cherokee County, South Carolina

Source: ESRI, USGS, EPA, SC DOT

Date: October 2018



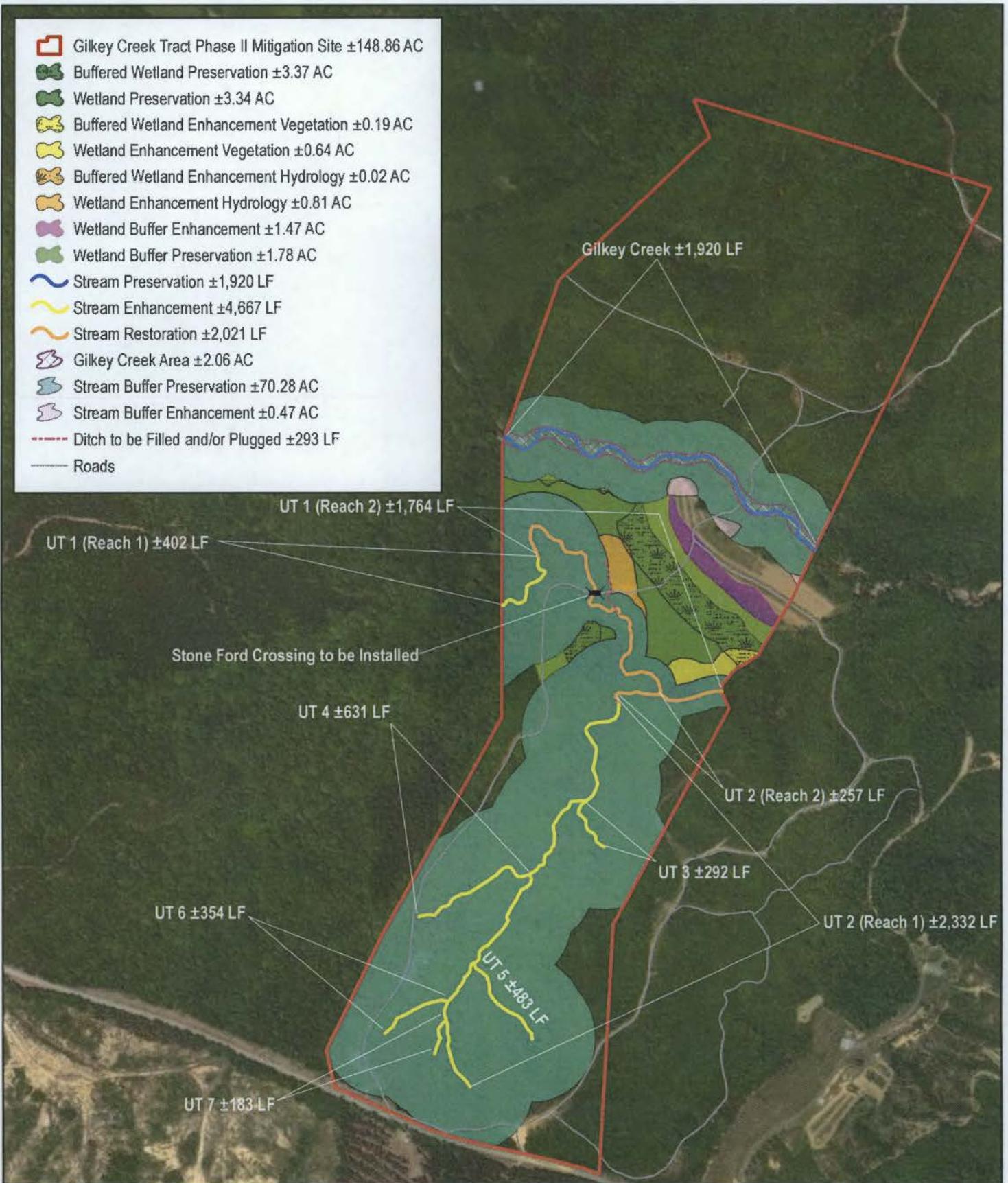


Figure 5: Mitigation Unit Map

Gilkey Creek Tract Phase II Mitigation Site
Conceptual Mitigation Plan
Cherokee County, South Carolina
Source: ESRI
Date: October 2018

1 inch = 600 feet

0 300 600 1,200
Feet



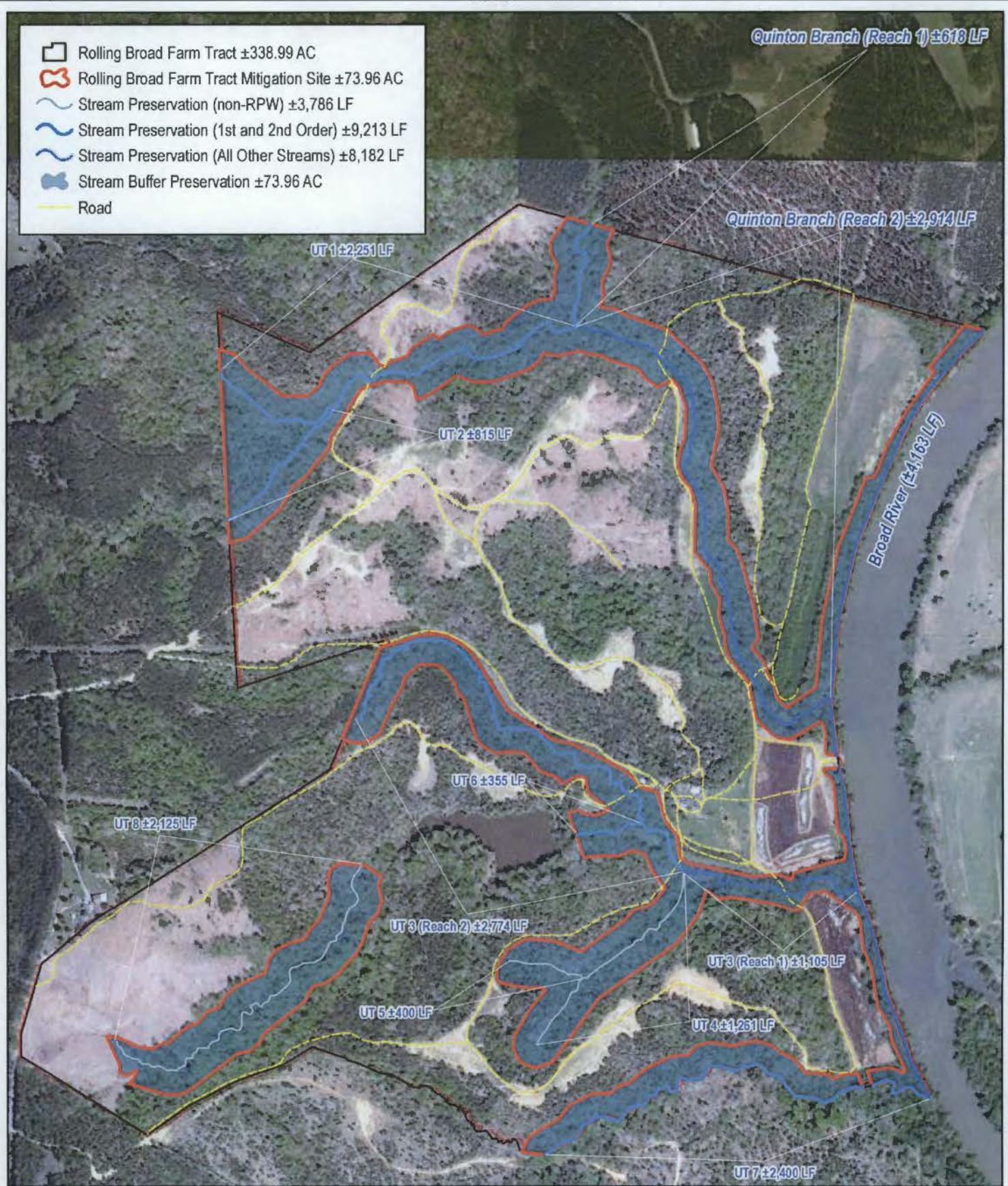


Figure 6: Mitigation Unit Map

Rolling Broad Farm Tract Mitigation Site
Conceptual Mitigation Plan
Cherokee County, South Carolina

Source: ESRI

Date: October 2018

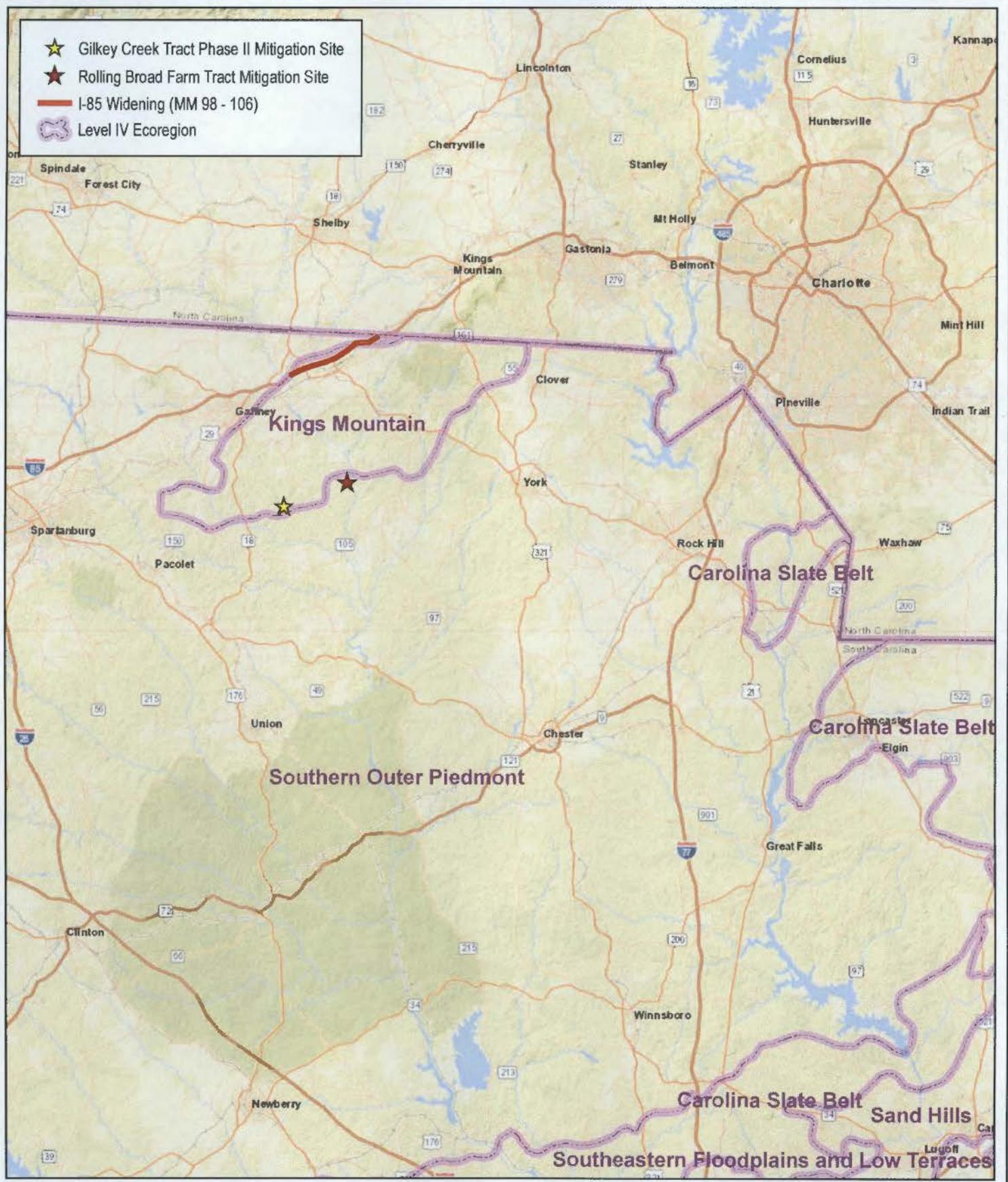
1 inch = 650 feet

0 325 650 1,300
Feet

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Figure 11: Level IV Ecoregion Map

I-85 Widening from MM 98 - 106
Conceptual Mitigation Plan
Cherokee County, South Carolina
Source: ESRI, EPA, SCDOT
Date: October 2018

1 inch = 10 miles



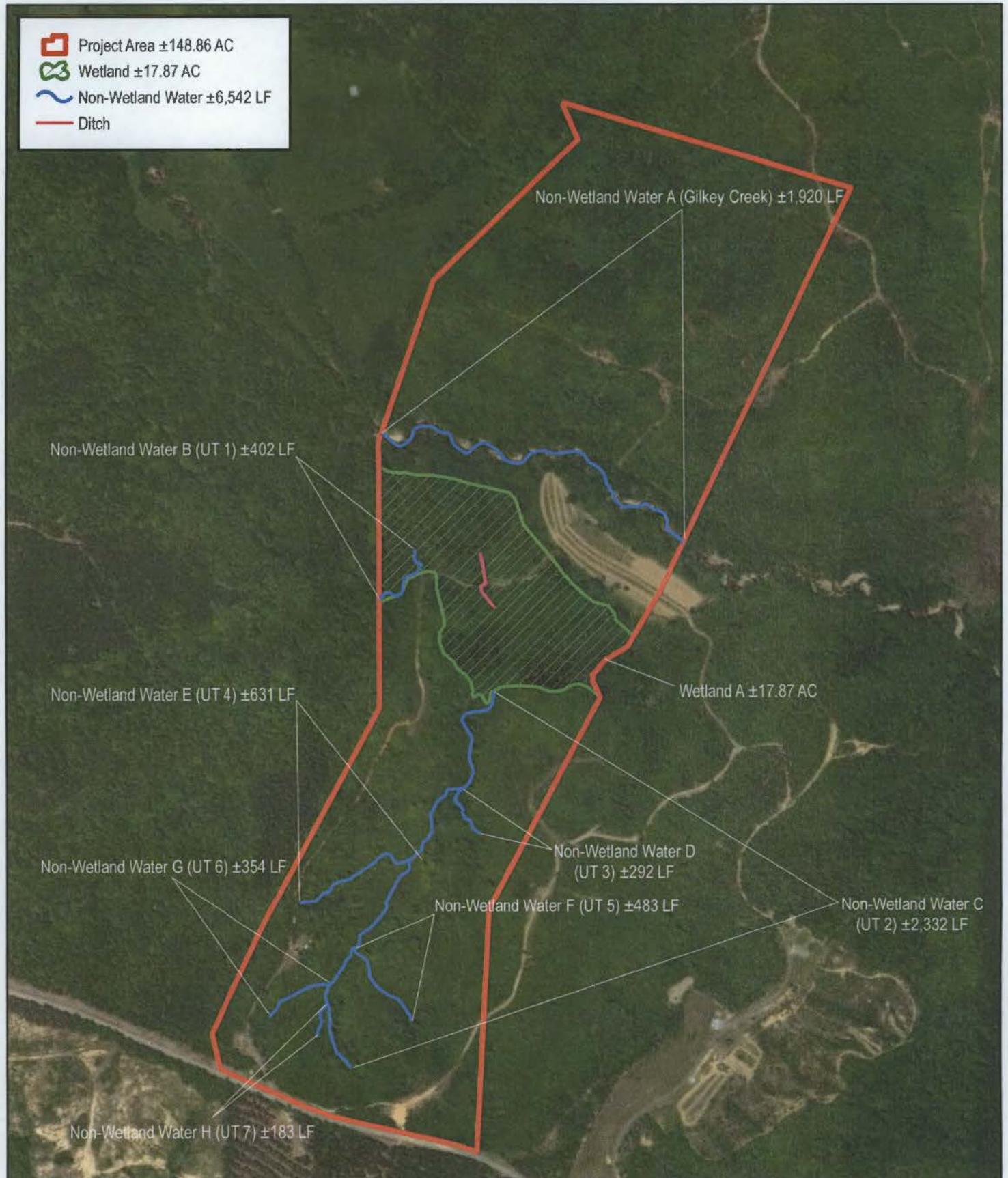


Figure 12: Waters of the United States Map

Gilkey Creek Tract Phase II Mitigation Site
Conceptual Mitigation Plan
Cherokee County, South Carolina
Source: ESRI
Date: October 2018

1 inch = 750 feet

0 375 750 1,500
Feet



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- Rolling Broad Farm Tract ±338.99 AC
- Rolling Broad Farm Tract Mitigation Site ±73.96 AC
- Non-Wetland Water ±21,181 LF



Figure 13: Waters of the United States Map

Rolling Broad Farm Tract Mitigation Site
Conceptual Mitigation Plan
Cherokee County, South Carolina

Source: ESRI
Date: October 2018

1 inch = 800 feet

0 400 800 1,600
Feet



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