

**STATE HIGHWAY AND  
PUBLIC TRANSPORTATION COMMISSION  
OF  
SOUTH CAROLINA**



***MINUTES AND RECOMMENDATIONS***

October 25, 1991



DAVID BOWERS  
PLANNING

MINUTES

Highways and Public Transportation Commission

Meeting of

October 25, 1991

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MINUTES  
HIGHWAYS AND PUBLIC TRANSPORTATION COMMISSION  
OCTOBER 25, 1991

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MINUTES  
HIGHWAYS AND PUBLIC TRANSPORTATION COMMISSION  
OF  
SOUTH CAROLINA

October 25, 1991

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The regular monthly meeting of the Highways and Public Transportation Commission was held at the offices of the State Highways and Public Transportation Department in Columbia, South Carolina, at eleven o'clock a.m. on October 25, 1991. In compliance with the "Freedom of Information Act", the news media was advised in writing of the time, date and place of this meeting.

Present

William B. Bookhart, Jr., Chairman Presiding  
William H. Alford  
T. Carroll Atkinson, Jr.  
V. C. "Vic" Bailey, Jr.  
Timothy A. Brett  
V. Laniel Chapman  
Thomas A. Drayton  
G. O'Neal Hamilton  
Joe C. Harden  
Robert Wm. Harrell, Sr.  
W. Brantley Harvey, Jr.  
Ben F. Hornsby  
Bobby T. Jones  
Kay Patterson  
H. C. Shealy  
Eugene C. Stoddard  
Donald E. Wilder, Jr.  
Frances L. Willis

Absent

Richard B. Ness  
W. M. "Mat" Self

Also Present: R. N. McLellan, Executive Director  
R. L. White, State Highway Engineer  
Debra R. Long, Secretary-Treasurer

SECTION 1: The Minutes for the meeting of September 25, 1991; copies of which had been previously mailed to each member of the Commission, were approved.

SECTION 2: The Commission unanimously passed a motion approving monthly reports as published by the Department of activities for the month of September, 1991.

SECTION 3: The Commission unanimously passed a motion approving purchase orders issued for amounts in excess of \$10,000.00, as shown in the Appendix.

SECTION 4: The Commission unanimously passed a motion concurring in the action of the Department in entering into an agreement with the City of Aiken to replace two substandard timber bridges over the trackage of the Norfolk Southern Corporation at an estimated cost of \$956,000, as shown in the Appendix.

SECTION 5: The Commission unanimously passed a motion approving the action of the Department in entering into a supplemental agreement with Burton, Adams, Kemp and King, Inc. for engineering services for Task 3 in connection with the multilaning of US Route 78 in Bamberg, Aiken and Barnwell counties, at an estimated cost of \$1,900,000.00, as shown in the Appendix.

SECTION 6: The Commission unanimously passed a motion authorizing the Department to enter into supplemental agreement No. 2 with Stevens and Wilkinson, Inc. to include additional engineering for the I-385/SC Route 49 interchange in Laurens County, at an estimated cost of \$106,000.00, as shown in the Appendix.

SECTION 7: The Commission unanimously passed a motion authorizing the Department to increase the current contract for "on call" geotechnical services by \$240,000.00, as shown in detail in the Appendix.

SECTION 8: The Commission unanimously passed a motion authorizing the Department to establish a one year with option to extend one additional year contract with a consultant engineering to provide "on call" Phase I, II, III and IV environmental services for an amount not to exceed \$500,000.00 per year, as shown in the Appendix.

SECTION 9: The Commission unanimously passed a motion authorizing the Department to establish a one year with option to extend one additional year contract with a consultant engineering firm to provide "on call" geotechnical engineering services for an amount not to exceed \$150,000.00 per year, as shown in the Appendix.

SECTION 10: The Commission unanimously passed a motion authorizing the Department to establish a one year with option to extend one additional year contract with a consultant engineering firm to provide "on call" Pile Driving Analysis (PDA) for an amount not to exceed \$500,000.00, as shown in the Appendix.

SECTION 11: The Commission unanimously passed a motion accepting a report by the Department concerning the execution of a Title to Real Estate dated April 10, 1991 conveying an approximate 3.97 acre parcel of land in Greenville County to the Board of Trustees of the Greenville Hospital System for the appraised value of \$471,437.00, as shown in the Appendix.

SECTION 12: The Commission unanimously passed a motion accepting a report by the Department concerning the execution of a gratis quitclaim deed dated September 30, 1991 conveying an approximate 0.026 acre parcel of land in Horry County to Nick Angel, as shown in the Appendix.

SECTION 13: The Commission unanimously passed a motion accepting a report by the Department of right of way payments on roads in the State Secondary "C" Construction Program for Aiken, Dorchester, Fairfield and Lexington counties, as shown in detail in the Appendix.

SECTION 14: The Commission unanimously passed a motion approving the action of the Department in extending existing bituminous retreatment contracts to include additional resurfacing work as follows:

Clarendon County

Contract of J. F. Cleckley and Co. - File No.  
14.1056 - extended to include resurfacing (File No.  
14.1056) of Road S-79, 0.75 mile from 0.65 mile west  
of Road S-63 to 1.40 miles west of Road S-63.  
Estimated cost of extension \$ 33 515 50

Darlington County

Contract of Ocean Lakes Construction, Inc. -  
File No. 16.1075 - extended to include resurfacing  
(File No. 16.1075) of Road S-121, 0.20 mile from Road  
S-243 to Road S-20 and Road S-243, 0.22 mile from  
Road S-21 to Road S-121.  
Estimated cost of extension \$ 13 001 14

Retreatment Contracts Extended, continued

Fairfield County

Contract of Sloan Construction Co. - File Nos.  
20.1068 and 20.501 - extended to include resurfacing  
(File No. 20.1068) of Road S-189, 0.26 mile from Road  
S-185 to Road S-118.

Estimated cost of extension \$ 7 679 95

Laurens County

Contract of Sloan Construction Co. - File Nos.  
30.10105 and 30.734 - extended to include resurfacing  
(File No. 30.10105) of US Route 76 for 2798 feet  
adjacent to Walmart near Town of Clinton.

Estimated cost of extension \$ 40 630 50

Lee County

Contract of Highway Materials, Inc. - File No.  
31.1056 - extended to include resurfacing (File No.  
31.1056) of Frontage Road, 0.20 mile from SC Route  
341 to end of pavement.

Estimated cost of extension \$ 9 766 20

York County

Contract of REA Construction Co. - File Nos.  
46.10104 and 46.916 - extended to include an  
additional section of Project C-916 (File No. 46.916)  
consisting of the resurfacing of 0.10 mile on US 21  
Business from SC Route 160 to Road S-265; 0.15 mile  
on SC Route 160 from US Route 21 Business to Road  
S-1442; 0.25 mile on Road S-96 from Road S-100 to  
SC Route 160; 0.30 mile on Road S-261 from Road  
S-294 to Road S-1162; 0.15 mile on Road S-264 from  
Yorktown to Road S-100; 0.20 mile on Road S-275 from  
Road S-294 to Road S-261; 0.10 mile on Road S-282  
from Road S-270 to Road S-267; and 0.30 mile on  
Road S-1163 from SC Route 160/21 Business to Road  
S-1163.

Estimated cost of extension \$ 62 803 70

Contract of REA Construction Co. - File Nos.  
46.10104 and 46.916 - extended to include an  
additional section of Project C-916 (File No.  
46.916) consisting of the resurfacing of 0.15 mile  
on Road S-1407 from SC Route 51 to end of State



Retreatment Contracts Extended, continued

York County, continued

maintenance; 0.45 mile on Road S-1521 from Road S-30 to Road S-1522; 0.25 mile on Road S-1522 from Road S-1521 to end of State maintenance and 0.10 mile on Road S-1523 from Road S-1521 to end of State maintenance.

Estimated cost of extension \$ 40 989 95

SECTION 15: The Commission unanimously passed a motion approving the action of the Department in extending existing construction contracts to include additional resurfacing work, as follows:

Charleston County

Contract of Sanders Brothers Construction Co., Inc. - File No. 10.258A - extended to include an additional section of Project C-258A (File No. 10.258A) consisting of the resurfacing with asphaltic concrete surfacing of 0.31 mile on Road S-1168 from end of curb and gutter near SC Route 61 to dead end.

Estimated cost of extension \$ 13 321 28

Greenville County

Contract of Thrift Brothers, Inc. - File No. 23.228A - extended to include an additional section of Project C-228A (File No. 23.228A) consisting of the drainage improvements on 0.104 mile on SC Route 146 to Advent Methodist Church northwest of SC Route 296.

Estimated cost of extension \$ 10 539 00

Contract of Sloan Construction Co., Inc. - File No. 23.251A - extended to include an additional section of Project C-251A (File No. 23.251A) consisting of the resurfacing with asphalt concrete surfacing of 0.31 mile on Road S-471 (Newland Street) from SC Route 253 to Furman Avenue and 0.46 mile on Road S-513 (Parris Mountain Avenue) from Road S-188 to Road S-87.

Estimated cost of extension \$ 27 016 73

SECTION 16: The Commission unanimously passed a motion authorizing award of contracts for highway construction projects in the October 8, 1991 letting subject to the approval of the Federal Highway Administration on federal-aid projects, as shown in the Appendix.

SECTION 17: The Commission unanimously passed a motion rejecting the bids received on September 10, 1991 for highway construction project, as shown in the Appendix.

SECTION 18: The Commission unanimously passed a motion rejecting the bids received on October 8, 1991 for highway construction project, as shown in the Appendix.

SECTION 19: The Commission unanimously passed a motion rescinding its action on the dates indicated, in adding sections of roads, as shown, to the State Highway System:

Addition  
Number

Aiken County

2150

County Road No. 98 (Lucille Drive) extending from Road S-254 (Sudlow Lake Road) south-westerly to deadend - approximately 0.05 mile Designated S-2150

Added to System 7/16/89

NOTE: This road is being removed due to right of way difficulties.

2207

First Street in Warrenville from Road S-2094 (Aiken Boulevard) southerly to Simonds Street - approximately 0.1 mile Designated S-2207

Added to System 5/18/89

NOTE: This road is being removed due to right of way difficulties.

Barnwell County

800

Unnamed street in the Town of Barnwell extending from Road S-655 (Barwick Road) approximately 0.3 mile north of Road S-625 (Bomba Street) northerly - approximately 0.15 mile Designated S-800

Added to System 2/15/90



State Highway System Action Rescinded, continued

Addition  
Number

Barnwell County, continued

- 801 ✓ (4) Extension of Road S-624 (Thomas Street) in the Town of Barnwell extending from end of pavement northerly - approximately 0.25 mile Designated S-624 Added to System 2/15/90
- 802 ✓ (4) Extension of Road S-202 (Apple Street) in the Town of Barnwell from current end of pavement northwesterly and westerly - approximately 0.85 mile Designated S-202 Added to System 2/15/90
- 815 ✓ (4) Earth street in Heathwood Subdivision adjacent to the City of Barnwell extending from Road S-781 northeasterly to cul-de-sac - approximately 0.25 mile Designated S-815 Added to System 12/20/90

NOTE: The above roads in Barnwell County are being removed at the request of the Delegation and the District Highway Commissioner

Beaufort County





- 811 ✓ (4) Tomby Road on St. Helena Island extending from Road S-77 approximately 0.57 mile southeast of Road S-117 southerly - approximately 0.75 mile Designated S-811 Added to System 11/17/88
- 815 ✓ (4) Spring Knob Road on Lady's Island extending from SC Route 802 approximately 0.1 mile south of Road S-700 easterly, northerly, westerly, and southerly - approximately 0.31 mile Designated S-815 Added to System 11/17/88

NOTE: The above roads in Beaufort County are being removed due to right-of-way difficulties

State Highway System Action Rescinded, continued


Addition  
Number

Chesterfield County

- 945 ✓  Extension of Road S-635 in the Town of McBee extending from current end of pavement to railroad - approximately 0.1 mile  
Designated S-635  
Added to System 3/19/87
- 947 ✓  Section of county road extending from Road S-917 (Moffett Road) westerly to a point west of Road S-804 (Covington Street) - approximately 0.45 mile  
Designated S-947  
Added to System 4/16/87
- 956 ✓  Sutton Street Extension in Pageland from Elm Street to Maple Street - approximately 0.4 mile  
Designated S-364  
Added to System 11/19/87
- 968 ✓  Section of road in the Town of Chesterfield extending from Road S-432 approximately 200 feet west of SC Route 102 northerly, westerly, and southerly forming a loop at Edwards Elementary School - approximately 0.15 mile  
Designated S-968  
Added to System 5/19/88

NOTE: The above roads in Chesterfield County are being removed at the request of the Delegation.

Georgetown County

- 858 ✓  Prince Street in the City of Georgetown extending from current end of street southeasterly to Road S-106 (Merriman Road) - approximately 0.1 mile  
Designated S-485  
Added to System 9/24/81  
NOTE: This road is being removed due to right-of-way difficulties.

State Highway System Action Rescinded, continued

Addition  
Number

Marion County

848

Ivey Street in Greenwood Park Subdivision  
extending from Road S-902 southerly -  
approximately 0.08 mile  
Designated S-848  
Added to System 5/21/87

849

Ridgewood Drive in Greenwood Park Subdivision  
extending from Road S-848 (Ivey Street)  
easterly to Road S-660 (Tupelo Street) -  
approximately 0.23 mile  
Designated S-849  
Added to System 5/21/87

NOTE: These roads are being removed at the  
request of the District Highway Comm.

Richland County

2931

Buddy Eargle Road extending from Road S-1775  
(Forrest Shealy Road) southerly and westerly  
to end of county maintenance - approximately  
0.23 mile  
Designated S-2931  
Added to System 7/20/89

NOTE: This road is being removed due to  
right of way difficulties

SECTION 20: The Commission unanimously passed a motion  
correcting the description of the following sections of state  
highways previously added to the State Highway System to read as  
follows:

Addition  
Number

Aiken County

2253

Gyles Road extending from Road S-1152 (Byrnes  
Road) to Road S-1686 (Williams Drive) -  
approximately 0.1 mile  
Designated S-823  
Added to System 3/15/90

NOTE: This revision is requested by the City  
of Aiken due to right-of-way difficulties.



State Highway System Description Corrected

Addition  
Number

Colleton County

909

Earth road from Road S-564 (Griffin Street) in the Town of Williams southeasterly - approximately 0.19 mile

Designated S-909

Added to System 7/18/91

NOTE: This revision is recommended to change the beginning point to Road S-564 instead of S-565.

Florence County

1785

Road to Olanta Elementary School from US Route 301 southeasterly to Road S-168 - approximately 0.1 mile

Designated S-1785

Added to System 7/18/91

NOTE: This revision is recommended to show the ending point as Road S-168.

SECTION 21: Pursuant to Code Section 57-5-80, the Commission unanimously passed a motion removing the following described road sections from the State Highway System:

Addition  
Number

Aiken County

Portion of  
1950

Section of road adjacent to the City of Aiken from SC Route 19 (Whiskey Road) easterly - approximately 0.15 mile

Designated S-1950

Added to System 9/18/80

NOTE: This removal is being recommended at the request of the city of Aiken to facilitate the construction of Corporate Parkway which is a new street serving the Westinghouse Company.

Barnwell County


Portion of  
324


Drive at Barnwell County Hospital from Road S-242 approximately 120 feet west of Road

State Highway System Road Section Removed, continued

Addition  
Number

Barnwell County, continued


324 ✓  S-41 northerly - approximately 0.07 mile  
Designated S-324  
Added to System 4/21/55

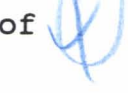
948 ✓  Drive at Calvery Church from Route 3 in  
Barnwell - approximately 0.22 mile  
Designated S-948  
Added to System 2/20/64


Shuttle  
498


NOTE: The above roads in Barnwell County are  
being removed at the request of the  
Delegation and the District Highway  
Commissioner.


Dorchester County

76 ✓  A spur road from US Route 25 approximately  
3.0 miles south of St. George westerly to  
the fish hatchery - approximately 0.25 mile  
Designated S-76  
Added to System 7/17/47

Portion of 194 ✓  Section of road adjacent to the City of  
Summerville from Road S-194 just southwest  
of Road S-466 northwesterly -  
approximately 0.1 mile  
Designated S-194  
Added to System 5/20/54

374 ✓  Drive at the Aluminum Fabricating Plant from  
US Route 78 just west of Summerville -  
approximately 0.15 mile  
Designated S-374  
Added to System 6/21/62

Portion of 434 ✓  Drive at Jessen Plant from Road S-194 west  
of Road S-194 west of Road S-526 to Road  
S-194 - approximately 0.06 mile  
Designated S-194  
Added to System 9/19/63

466 ✓  Drives at the Ertruded Aluminum Plant from  
Road S-194 west of Summerville -  
approximately 0.05 mile

State Highway System Road Sections Removed, continued

Addition  
Number

Dorchester County, continued

- 466 ✓ (X) Designated S-466  
Added to System 8/19/65
- 512 ✓ (X) Drives at the Conoflow Corporation adjacent  
to the intersection of US Route 78 and Road  
S-167 near St. George - approximately 0.15 mile  
Designated S-512  
Added to System 9/15/66
- 526 ✓ (X) Service drives at the Paragon Electric Plant  
from Road S-194 adjacent to Summerville -  
approximately 0.3 mile  
Designated S-526  
Added to System 7/20/67
- 588 ✓ (X) Drives at the Edson Incorporated Plant from  
Road S-194 at Summerville -  
approximately 0.22 mile  
Designated S-588  
Added to System 4/16/70

NOTE: The above road sections in Dorchester  
County are being removed at the request  
of the Delegation and the District  
Highway Commissioner

Greenville County

- 259 ✓ (X) Hammond Street Extension in Greenville from Main  
Street to Church Street Extension -  
approximately 0.2 mile  
Designated SC Route 124  
Added to System 1/15/59

NOTE: This road is being removed at the  
request of the District Highway  
Commissioner and the Mayor of the  
City of Greenville

McCormick County

- 256 ✓ (X) Street at Talbert-Dorn Subdivision adjacent to  
McCormick from Road S-11 just south of Road  
S-71 easterly to Road S-255 -



State Highway System Road Sections Removed, continued

Addition  
Number

McCormick County, continued

256

approximately 0.2 mile  
Designated S-256  
Added to System 7/16/64

NOTE: This road is being removed by Act No.  
241 of the General Assembly (Secretary  
of State No. 196).

SECTION 22: Pursuant to Code Section 57-5-90, the  
Commission unanimously passed a motion adding the following belt  
line to the State Highway System:

Addition  
Number

Charleston County

2513

Section of road in the Town of Ravenel from  
Road S-275 southwesterly to Road S-477 -  
approximately 0.05 mile  
To be designated S-478

NOTE: This belt line is being recommended to  
facilitate the installation of railroad  
protection devices.

SECTION 23: Pursuant to Code Section 57-5-70, the  
Commission unanimously passed a motion adding the following roads  
to the State Highway System, maintenance jurisdiction by the  
Department of such roads to become effective when construction to  
State Highway standards shall have started:

Addition  
Number

Chesterfield County

1002

Section of county road extending from Road  
S-169 approximately 0.2 mile south of Road  
S-20 easterly to deadend at Deliverance  
Center Church - approximately 0.2 mile  
To be designated S-281


1003

Section of county road extending from SC  
Route 9 approximately 0.3 mile west of Road  
S-790 northeasterly and southerly to SC  
Route 9 - approximately 1.0 mile  
To be designated S-961


State Highway System Additions, continued

Addition  
Number


Lee County


521  Cassanova Court extending from Road S-65  
(Harris Street) northerly - approximately  
0.1 MILE (S-521)


Marlboro County

834  Level Green Church Road extending from SC  
Route 9 approximately 0.3 mile southeast  
of Road S-36 southwesterly -  
approximately 0.35 mile  
To be designated S-834

Richland County

3009  Homestead Street extending from Road S-899  
(Chevis Street) west of Road S-1018 (Suber  
Street) - approximately 0.1 mile  
To be designated S-3009

3010  Anna B. Lane extending from road S-129  
(Kennerly Road) northwesterly -  
approximately 0.15 mile  
To be designated S-3010

3011  Russ Brown Road extending from Road S-220  
(Sandfield Road) to Road S-54 (Langford  
Road) - approximately 1.12 miles  
To be designated S-3011

SECTION 24: The Commission unanimously passed a motion  
amending the Federal Aid Consolidated Primary Construction, as  
follows:

Item No.

Georgetown County

Deletion

70,619 US 17 - Resurfacing from the Horry County  
Line to US 17 Business South of Murrells  
Inlet 3.90 miles. (Constr) (Duplicate of  
Item 70,643) \$ 657 000 00

Federal Aid Cons Primary Constr Program, continued

Item No.

Statewide

Addition

70,723	Statewide Internal Audit funds for FY 1992 (Constr)	\$ 26 400 00
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SECTION 25: The Commission unanimously passed a motion amending the State Economic Development Program, as follows:  
State Economic Development Program, continued

Item No.

Aiken County

Addition

105,108	Carlisle Tire & Rubber Company - Improve roadway at Carlisle Tire & Rubber Company (Constr)	\$ 150 000 00
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Florence County

Addition

105,109	Wellman Industries - New 2 lane roadway off of SC 41/51 - 1.30 miles (Constr)	\$ 600 000 00
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Horry County

Additions

105,110	Ron McNair Road - Upgrade dirt road across from the intersection of US 501 & S-137 - 0.40 miles (Constr)	\$ 56 400 00
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105,111	Conway Street - Upgrade roadway from US Route 501 to end - 0.07 mile (Constr)	\$ 70 000 00
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Richland County

Addition

105,112	Cancer Research Center - Roadway from Harden Street Extension to Sunset Drive - 0.3 mile (Constr)	\$ 280 000 00
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State Economic Development Program, continued

Item No.

York County

105,113	Confidential Project (Constr)	\$	165 000 00
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SECTION 26: The Commission unanimously passed a motion amending the State Secondary "C" Construction Program, as follows:

Item No.

Abbeville County

Addition

201474	Road S-396 - Construction to State Highway standards of a section of Road S-396 extending from US Route 178 approximately 0.5 mile south of Road S-24 westerly and northerly to Road S-24 - 0.5 mile	\$	92 000
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Aiken County

Deletions

29042	Road S-2150 (Addition 2150) - County Road No. 98 (Lucille Drive) extending from Road S-254 (Sudlow Lake Road) southwesterly to deadend - 0.05 mile Project abandoned - amount reduced to actual cost of engineering only		
200193	Road S-2207 (Addition 2207) - First Street in Warrentonville from Road S-2094 (Aiken Boulevard) southerly to Simonds Street 0.1 mile Project abandoned - amount reduced to actual cost of engineering only		

Revision

200796	Road S-823 (Addition 2253) - Gyles Road extending from Road S-2252 (Byrnes Road) to Road S-1686 (Williams Drive) - 0.1 mile Description revised - amount unchanged	\$	21 000
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State Secondary "C" Construction Program, continued

Item No.

Allendale County

Addition

201475	US Route 301 - Replacement of sidewalks on both sides of US Route 301 between Road S-10 (Railroad Avenue) and Road S-98 (Bay Street) - 0.04 mile	\$ 11 000
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Anderson County

Additions

201498	Road S-492 (Windsor Avenue) - Construction of concrete curb, gutter, necessary drainage and resurfacing - 0.15 mile	\$ 75 000
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201499	Resurfacing along Road S-206 (Chapman Road), S-598 (Mahaffey Road), S-660 (Edgewood Drive), S-657 (Rice Road), S-661 (Hillcrest), S-671 (McKay Street), S-82 (Harper Drive), S-360 (Henry Avenue), S-872 (Jeb Stewart), S-875 (Bedford Forest), S-874 (Wade Hampton) and S-315 (North Avenue) - 5.0 miles	\$ 220 000
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Barnwell County

Deletions

200721	Road S-800 (Addition 800) - Unnamed street in the City of Barnwell extending from Road S-655 (Barwick Road) approximately 0.3 mile north of Road S-625 (Bomba Street) - 0.15 mile Project abandoned - amount reduced to actual cost of engineering only	
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200722	Road S-624 (Addition 801) - Extension of Road S-624 (Thomas Street) in the City of Barnwell extending from end of pavement northerly - 0.25 mile Project abandoned - amount reduced to actual cost of engineering only	
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200723	Road S-202 (Addition 802) - Extension of Road S-202 (Apple Street) in the City of Barnwell from current end of pavement northwesterly and westerly - 0.85 mile	
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State Secondary "C" Construction Program, continued

Item No.

Barnwell County, continued

Deletions, continued

- 200723      Project abandoned - amount reduced to actual cost of engineering only
- 201099      Road S-815 (Addition 815) - Earth road in Heathwood Subdivision adjacent to the City of Barnwell extending from Road S-781 northeasterly to cul-de-sac - 0.25 mile  
Project abandoned - amount reduced to actual cost of engineering only

Beaufort County

Deletions

- 29940      Road S-811 (Addition 811) - Tomby Road on St. Helena Island extending from Road S-77 approximately 0.57 mile southeast of Road S-117 southerly - 0.75 mile  
Project abandoned - amount reduced to actual cost of engineering only
- 29944      Road S-815 (Addition 815) - Spring Knob Circle on Lady's Island extending from SC Route 802 approximately 0.1 mile south of Road S-700 easterly, northerly, westerly and southerly - 0.31 mile  
Project abandoned - amount reduced to actual cost of engineering only

Berkeley County

Deletion

- 200033      Intersection improvement of Road S-29 (Redbank Road) with Road S-485 (Cranford Road) near Goose Creek including turn lanes -  
Project abandoned - amount reduced to actual cost of engineering only



State Secondary "C" Construction Program, continued

Item No.

Charleston County

Deletions

29213 Road S-1028 (Harborview Road) from Johnston Road to bridge (placed in System for preliminary engineering and bike paths) - 2.2 miles  
Project abandoned - amount reduced to actual cost of engineering only

29214 Road S-94 - Fort Johnson Road from high school to Harborview Road (placed in System for preliminary engineering and bike path survey) - 2.2 miles  
Project abandoned - amount reduced to actual cost of engineering only

Additions

201476 Dedication cost for naming the "Betsy Kerrison Parkway" \$ 500

201477 Roads S-390 and SC Route 165 - Intersection improvement of Road S-390 (Toogoodoo Road) and SC Route 165 - 0.2 mile \$ 160 000

Cherokee County

Revisions

201321 Local Paving Program - Paving and/or improving approximately sixty (60) roads \$ 383 000  
Description unchanged - amount increased from \$375,000 to \$383,000  
NOTE: This work is to be accomplished by Cherokee County

201421 Resurfacing along Road S-55 (Hetty Hill Street), S-166 (Buford Street), S-171 (Buford Street), S-172 (College Drive), S-277 (Trenton Road), S-427 (Ashmore Avenue), S-513 (Country Club Road), S-329 (Monroe Street), S-425 (Northwood Drive), S-424 (Springwood Drive, S-233 (Teague Road) and S-426 (Westmont Avenue) - 5.5 miles \$ 159 000

State Secondary "C" Constr Program, continued

Item No.

Cherokee County, continued

Revisions, continued

201421 Description revised - amount increased from  
\$114,956 to \$159,000

Additions

201478 Local Paving Program - Paving and/or  
improving Pennington Road - \$ 6 000  
NOTE: This work to be completed by Cherokee Co.

201500 US Route 29/SC Route 105 - Acquisition of  
rights-of-way at the intersection of US  
Route 29/SC Route 105 \$ 2 500

201501 Local Paving Program - Paving and/or  
improving twelve (12) streets in the  
Town of Blacksburg \$ 60 000  
NOTE: Town of Blacksburg is responsible  
for contracting the paving of  
these roads.

Chester County

Revision

201424 Road S-934 (Addition 934) - Entrance road  
at Lewisville High School extending from  
SC Route 223 to Road S-656 (placed in  
System for preliminary engineering only)  
1.0 mile \$ 7 000  
Description revised - amount unchanged

Chesterfield County

Deletions

28799 Road S-635 (Addition 945) - Extension of  
Road S-635 in the Town of McBee from  
current end to railroad - 0.1 mile  
Project abandoned - amount reduced to  
actual cost of engineering only

State Secondary "C" Constr Program, continued

<u>Item No.</u>	<u>Chesterfield County, continued</u>
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Deletions, continued

28818 Road S-947 (Addition 947) - Section of county road extending from Road S-917 (Moffett Road) westerly to a point west of Road S-804 (Covington Street) - 0.45 mile  
Project abandoned - amount reduced to actual cost of engineering only

29365 Road S-364 (Addition 956) - Sutton Street  
Extension in Pageland from Elm Street to  
Maple Street - 0.4 mile  
Project abandoned - amount reduced to  
actual cost of engineering only

29695 Road S-968 (Addition 968) - Section of road in the Town of Chesterfield extending from Road S-432 200 feet west of SC Route 102 northerly, westerly and southerly forming a loop at Edwards Elementary School - 0.15 mile  
Project abandoned - amount reduced to actual cost of engineering only  
NOTE: This project to be completed under the Local Paving Program

## Additions

201479      Local Paving Program - Paving and/or  
improving a section of road in the Town  
of Chesterfield at the Edwards Elementary  
School - 0.15 mile  
Cost to be determined at a later date  
NOTE: Work to be completed by  
Chesterfield County      \$ 55 000

201480	Road S-281 (Addition 1002) - Section of county road extending from Road S-169 approximately 0.2 mile south of Road S-20 easterly to deadend at Deliverance Center Church - 0.2 mile	\$ 55 000
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201481 Road S-961 (Addition 1003) - Section of  
county road extending from SC Route 9

State Secondary "C" Constr Program, continued

Item No.

Chesterfield County, continued

Additions, continued

201481	approximately 0.3 mile west of Road S-790 northeasterly and southerly to SC Route 9 - 1.0 mile	\$ 225 000
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Colleton County

Revision

201310	Road S-909 (Addition 909) - Earth road from Road S-564 (Griffin Street) in the Town of Williams southeasterly - 0.19 mile Description revised - amount unchanged	\$ 48 000
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Dorchester County

Addition

201502	Road S-562 (King Charles Circle) and S-561 (Axtell Drive) - Construction of sidewalks adjacent to these streets at Newington Elementary School - 0.4 mile	\$ 34 000
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Georgetown County

Deletion

25116	Road S-485 (Addition 858) - Prince Street in the City of Georgetown extending from current end of street southeasterly to Road S-106 (Merriman Road) - 0.1 mile Project abandoned - amount reduced to actual cost of engineering only	
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Addition

201482	Local Paving Program - Paving and/or improving Prince Street in the City of Georgetown - 0.1 mile Cost to be determined at a later date NOTE: Work to be completed by City of Georgetown.	
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State Secondary "C" Constr Program, continued

Item No.

Greenville County

Revision

201381 SC Route 146 and Rocky Slope Road  
Intersection - Improve road intersection  
and provide turn lane on both roads -  
0.2 mile \$ 200 000  
Description revised - amount unchanged  
NOTE: Construction to include plans,  
engineering, administration and  
remainder of cost to be furnished  
by the City of Greenville.

Greenwood County

Additions

201483 Local Paving Program - Paving and/or  
improving four (4) roads being Parkview  
Drive, W. S. Library Alley, Brown Alley,  
and Harris Alley in the Town of Ware  
Shoals \$ 6 200  
NOTE: This work is to be completed by  
the Town of Ware Shoals.

201484 Roads S-293 and S-330 - Resurfacing along  
Road S-293 (Greenacres Boulevard) and  
Road S-330 (Cork Street) - 1.85 miles \$ 28 000

Lancaster County

Addition

201503 Local Paving Program - Paving and/or improving  
sixteen (16) roads being Sowell Farm Road,  
Oxford Circle, Friars Court, Ridgeline Road,  
Wadell Stinson Road, Stinson Road, Rise Lane,  
Langley Road, Blackwelder Road, Voyager Road,  
alleyway in Kershaw, Balmy Court, Felly  
Lane, Bevy Lane, Carnes Wilson Road and  
Foxhunter Road - 15.0 miles \$ 402 845  
NOTE: This work is to be accomplished by  
Lancaster County.

State Secondary "C" Constr Program, continued

Item No.

Lee County

Revision

201330	Local Paving Program - Paving and/or improving Tubbs Court in the City of Bishopville - 0.16 mile Description revised - amount decreased from \$34,000 to \$26,000	\$ 26 000
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Addition

201485	Road S-521 (Addition 521) - Cassanova Court extending from Road S-65 (Harris Street) northerly - 0.1 mile	\$ 15 000
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Marion County

Deletions

28940	Road S-848 (Addition 848) - Ivey Street in Greenwood Park Subdivision extending from Road S-902 southerly - 0.08 mile Project abandoned - amount reduced to actual cost of engineering only	
28941	Road S-849 (Addition 849) - Ridgewood Drive in Greenwood Park Subdivision extending from Road S-848 (Ivey Street) easterly to Road S-660 (Tupelo Street) 0.23 mile Project abandoned - amount reduced to actual cost of engineering only	
29623	Correction of drainage problem by placement of storm drainage facilities in the Town of Nichols (cost of materials only - City of Nichols to provide labor) - Project abandoned - amount reduced to actual cost of engineering only	

Addition

201504	Road S-834 (Addition 834) - Level Green Church Road extending from SC Route 9 approximately 0.3 mile southeast of Road S-36 southwesterly - 0.35 mile	\$ 85 000
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State Secondary "C" Constr Program, continued

Item No.

Newberry County

Additions

201505	Road S-55 - Resurfacing along the remaining portion of Road S-55 from a point near Mt. Pleasant United Methodist Church to SC Route 34 - 5.0 miles	\$ 76 500
	NOTE: "C" Funds in the amount of \$76,500 to be used to match maintenance funds in an equal amount to resurface the balance of this road.	
201506	Local Paving Program - Replacement and repair of sidewalks on Main Street in the City of Newberry between Calhoun and Walnut Streets	\$ 2 000
	NOTE: This work is to be accomplished by the City of Newberry	

Orangeburg County

Addition

201507	Construction of sidewalk along SC Route 6 from US Route 15/301 southerly (preliminary engineering only) - 1.0 mile	\$ 10 000
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Pickens County

Additions

201486	Dedication cost for naming "James D. Howe Bridge"	\$ 500
201487	Dedication cost for naming "Frank D. Callaham Bridge"	\$ 500

Richland County

Deletion

200353	Road S-2931 (Addition 2931) - Buddy Eargle Road extending from Road S-1775 (Forrest Shealy Road) southerly and westerly to end of county maintenance - 0.23 mile	
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State Secondary "C" Constr Program, continued

Item No.

Richland County, continued

Deletions, continued

Project abandoned - amount reduced to  
actual cost of engineering only

Revision

201229	Road S-1975 (Hunt Club Road) - Construction of sidewalks along Road S-1975 from Road S-1196 (Windsor Lake Road) easterly for 450 feet to end of school property - 0.09 mile	\$ 6 600
	Description revised - amount reduced from \$50,000 to \$6,600	

Additions

201488	Road S-1958 (Rosebud Drive) - Construction of sidewalks along the southeast side of Road S-218 (Wilkes Street) to Road S-1957 (Easter Street) - 0.43 mile	\$ 38 000
201489	Road S-913 (Weston Avenue) - Construction of sidewalks on the west side of Road S-901 (Prescott Road) to Road S-219 (Mason Road) - 0.05 mile	\$ 5 800
201490	Road S-978 (Satchelford Road) - Construction of sidewalks on the west side of Satchelford Road from Pinestraw Road (Road S-979) northerly to end of present sidewalk - 0.04 mile	\$ 3 500
201491	Road S-3009 (Addition 3009) - Homestead Street extending from Road S-899 (Chevis Street) west of Road S-1018 (Suber Street) - 0.1 mile	\$ 18 000
201492	Road S-3010 (Addition 3010) - Anna B. Lane extending from Road S-129 (Kennerly Road) northwesterly - 0.15 mile	\$ 28 000
201493	Road S-3011 (Addition 3011) - Russ Brown Road extending from Road S-220 (Sandfield Road) to Road S-54 (Langford Road) - 1.12 miles	\$ 198 000

State Secondary "C" Constr Program, continued

Item No.

Spartanburg County

Revision

201238      House District No. 33 - Road S-748 (Forest Lake Drive) - Correction of drainage problem adjacent to Road S-748      \$ 80 000  
Description revised - amount reduced from \$126,500 to \$80,000  
NOTE: City of Spartanburg to provide plans, obtain right-of-way and let project to contract.

Additions

201494      Road S-748 (Lake Forest Drive) - Correction of drainage problem at the intersection of Lake Forest Drive and Courier Place by the replacement of storm drainage -      \$ 38 000  
201495      Road S-47 (Country Club Road) - Correction of drainage problem adjacent to Edisto Drive      \$ 8 500  
201496      Local Paving Program - House District Nos. 33, 34, 35, 36, 37 and 38 - Paving and/or improving forty-three (43) projects in the House Districts listed above      \$418 260  
201497      House District No. 35 - Road S-142 (Shaw Road) - Resurfacing along Road S-142 from Road S-50 southerly to Road S-113 - 3.35 miles      \$ 82 500

York County

Deletion

201409      Installation and repair of sidewalks on Road S-585 (Frazier Street), S-586 (Community Street) and Road S-18 (Laurens Street)      \$ 9 775  
NOTE: This project is being deleted because it exceeds the maximum amount allocated by the Delegation.

State Secondary "C" Constr Program, continued

Item No.                      York County, continued

Revision

201408	Resurfacing along Road S-1191 (Hathaway Drive), S-1193 (Canfield Drive), S-57 (Shandon Road), S-1338 (Shandon Road), S-877 (Sprouse Street), S-1191 (Wyndale Drive), S-604 (Iredell), S-1192 (Hallmark Drive), S-1336 (Spring Valley Road) and S-50 (Springdale) - 4.7 miles                      \$159 000
	Description revised - amount decreased from \$272,701 to \$159,000

SECTION 27: The Commission unanimously passed a motion extending the current supportive services contract for two months with an option to extend two additional months for a total cost of \$28,829.00, as shown in the Appendix.

SECTION 28: On motion of Commissioner Harrell, seconded by Commissioner Bailey, the Commission unanimously passed a motion to adopt the State Highway Improvement Program for Federal fiscal year 1992, as shown in the Appendix.

SECTION 29: On motion of Commissioner Chapman, seconded by Commissioner Hamilton, the Commission unanimously passed a motion to implement a program to apply appropriate pavement markings to all roads on the State Highway System, except subdivision streets and low volume streets in small towns and municipalities if and when funding is available.

SECTION 30: On motion of Commissioner Chapman, seconded by Commissioner Atkinson, the Commission unanimously passed a motion to adopt the Department's proposal of a four to five year renovation program for rest areas for an estimated cost of \$10 million with the following major features of the program:

Install improved lighting in all rest areas as required (approximately 18 months)

Complete landscaping program (approximately 12 months)

Upgrade fixtures and furnishing in all rest areas as required (approximately 24 months)

Rest Area Renovation Program, continued

Reconstruct I-26 rest areas, Orangeburg County

Renovate I-85 rest areas, Spartanburg County

Construct I-20 rest areas, Lexington County

SECTION 31: On motion of Commissioner Jones, seconded by Commissioner Bailey, the Commission unanimously passed a motion to adopt the Revised Guidelines for Personal Hygiene for Female Officers and amend the Patrol Policy accordingly, as shown in the Appendix.

SECTION 32: On motion of Commissioner Harvey, Chairman of the Personnel and Resolutions Committee, the Commission unanimously passed a motion adopting the following resolution commending Ann Riley and Diane Chastain for their work with the Wildflower Program:

RESOLUTION

WHEREAS, Mrs. Diane Chastain has rendered outstanding service to the State of South Carolina as chairperson of the Wildflower Alliance of South Carolina;

AND WHEREAS, Mrs. Ann Y. Riley has rendered outstanding service to the State of South Carolina as honorary chairperson of the Wildflower Alliance of South Carolina;

AND WHEREAS, Mrs. Chastain and Mrs. Riley have generously contributed their support, expertise and encouragement to the South Carolina Department of Highways and Public Transportation in the development of a special wildflower license plate and to the agency's overall wildflower planting program;

NOW, THEREFORE, BE IT RESOLVED by the South Carolina State Highways and Public Transportation Commission that Mrs. Diane Chastain and Mrs. Ann Y. Riley be recognized and commended for their efforts in behalf of the wildflower program, and in the development of the wildflower tag, proceeds from which will be used for additional wildflower plantings to further beautify the highways of South Carolina.

SECTION 33: On motion of Commissioner Harrell, seconded by Commissioner Hornsby, the Commission unanimously passed a motion authorizing the Department to prepare a resolution commending the Highway Patrol for an outstanding job



Ryder Cup Personnel Recognized, continued

during the Ryder Cup on Kiawah Island, and further that each Patrol person who participated in this project be named in the resolution and provided a copy, with the original to be hung in the Charleston Patrol office.

SECTION 34: There being no further business to come before the Commission, the meeting was adjourned at 11:50 a.m.

Debra R. Long  
Secretary-Treasurer

William B. Bookhart, Jr.  
Chairman

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APPENDIX

Highways and Public Transportation Commission

Meeting of

October 25, 1991

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## RECOMMENDATIONS

### Highways and Public Transportation Commission Meeting of October 25, 1991

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Monthly reports published by the Department of activities for the month of September, 1991 are submitted under separate cover. These reports are for the information of the Commission.

It is recommended that the Commission accept the September, 1991 reports.

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### PAYMENTS FOR RIGHTS OF WAY ON ROADS IN STATE SECONDARY CONSTRUCTION "C" PROGRAM

Payments have been made for rights of way on the following roads in the "C" Construction Program:

August 28, 1991	Project C - SC Route 642 - Dorchester County - Waverly Place/McGuire Partners (Limited Partnership)	\$ 700 00
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The above is payment for right of way easement to land that is in the right of way.

August 28, 1991	Project C - Road S-483 - Fairfield County - Warren Roach, Jr.	\$ 600 00
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The above is payment for fee simple title to land that is in the right of way.

August 28, 1991	Project C - Road S-483 - Fairfield County - J. D. Weldon	\$ 650 00
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The above is payment for final and complete settlement out of Court of the right of way Condemnation Case. The Department decided it best to pay the award in order that this road could be built.

August 14, 1991	Project C- Road S-404 - Lexington County - Mae Y. Williams	\$1 800 00
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The above is payment for final and complete settlement out of Court of the right of way Condemnation Case. The Department considered it best to award so this road could be constructed.

August 5, 1991	Project C - Road S-404 - Lexington County - Gloria P. Greene and Albert J. Dooley, Sr., Esquire	\$ 200 00
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Recommendations - 10/25/91  
Right of Way Payments, continued

The above is payment for final and complete settlement out of Court of the right of way Condemnation Case. The Department decided it best to pay the award in order that this road could be built.

September 18, 1991	Project C - Road S-2194 - Aiken	
	County - Dorothy G. Proctor	\$1 025 00

This report is being made in compliance with Section 9 of the minutes of December 19, 1957.

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Recommendations - 10/25/91

FEDERAL AID BRIDGE REPLACEMENT OFF-SYSTEM  
CONSTRUCTION PROGRAM - AIKEN COUNTY

The Department proposes to enter into an agreement with the City of Aiken for the purpose of replacing two substandard timber bridges over the trackage of the Norfolk Southern Corporation located along Newberry Street and York Street in the City of Aiken. The necessary approach work thereto is also included. The estimate cost of the work required is \$956,000.

Under the terms of the agreement, the City would pay 20% of all costs connected with the project with the remaining 80% coming from Federal Bridge Replacement Funds allocated to the Department.

It is recommended that the Commission concur in the Department's desire to enter into this agreement with the City of Aiken.

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Recommendations - 10/25/91

Supplemental Agreement for Task 3, Burton, Adams, Kemp and King,  
Inc. - Multilaning US Route 78 from SC Route 302 in Aiken to  
US Route 301 in Bamberg-Aiken, Barnwell Counties  
File Nos. 2.825, 5.511, 6.540

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The Department requests Commission approval to enter into a Supplemental Agreement with Burton, Adams, Kemp and King, Inc. for engineering services for Task 3. The cost for this supplemental agreement is estimated to be \$1,900,000.00. Task 3 includes preparation of environmental documents, aerial mapping and preliminary plans for the segment of US Route 78 from SC Route 37 in Elko to East of Bamberg.

These services will be funded with SHIMS funds.

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Recommendations - 10/25/91

Supplemental Agreement No. 2 - Stevens & Wilkinson, Inc.  
- Improvements at I-385/SC Route 49 Interchange in  
Conjunction with the Laurens Bypass - Laurens County -  
File No. 30.719 - Project No. SHP-3089

The Department requests Commission approval to enter into a supplemental agreement with the consulting firm of Stevens and Wilkinson, Inc. for services not covered by the original agreement or supplement 1.

The services include additional engineering for preparation of preliminary roadway and bridge plans and right of way plans for the I-385/SC Route 49 interchange.

This Supplemental Agreement is estimated to cost \$106,000.00 which will be funded with SHIMS funds.

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On-Call Geotechnical Consultant Agreement  
F&ME Consultants

The Department entered into a 3 year "on call" geotechnical contract with F&ME Consultants on January 1, 1990. Because of the expanded PDA and UST contamination work, the Department intends to terminate the current contract and enter into individual service contracts as soon as approved selection procedures are complete.

In order to continue uninterrupted services it is recommended that the current contract be increased by \$240,000.00 segregated as follows:

Geotechnical	\$ 40 000 00
PDA	100 000 00
UST	<u>100 000 00</u>
TOTAL	\$240 000 00

Funding for these services will be provided from various Federal and State projects.

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Recommendations - 10/25/91

Request for Consultant to Provide  
Environmental Engineering Services

The Department requests approval to establish a one (1) year with option to extend one (1) additional year contract with a consultant engineering firm to provide "on call" Phase I, II, III & IV environmental services for an amount not to exceed \$500,000.00 per year. Funding for these services will be provided from the various Federal and State projects.

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Recommendations - 10/25/91

Request for Consultant to Provide  
Geotechnical Engineering Services

The Department requests approval to establish a one (1) year with option to extend (1) additional year contract with a consultant engineering firm to provide "on call" geotechnical engineering services for an amount not to exceed \$150,000.00 per year. Funding for these services will be provided from the various Federal and State projects.

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Recommendations - 10/25/91

Request for Consultant to Provide  
PDA Services

The Department requests approval to establish a one (1) year with option to extend (1) additional year contract with a consultant engineering firm to provide "on call" Pile Driving Analysis (PDA) services for an amount not to exceed \$500,000.00 per year. Funding for these services will be provided from the various Federal and State projects.

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SURPLUS RIGHT OF WAY PROPERTY - LAND

Under File 23.666, during acquisition of right of way for construction of the proposed Downtown Loop and Gantt Freeway Projects in Greenville County, the Department acquired Tracts 86 and 87 from C. B. Martin, et al, by Condemnation, dated August 22, 1973, and Tracts 88 and 89 from Maggie M. Roach, et al, by Title to Real Estate dated May 10, 1974. These projects were abandoned in 1982.

In 1990, the Department was contacted by The Board of Trustees of The Greenville Hospital System in regard to Tracts 88, 89 and the remaining portion of Tracts 86 and 87, which they wanted to purchase for the appraised value. Therefore, based on a review and determination by the Capital Improvements Committee an approximate 3.97 acre parcel of land was conveyed to The Board of Trustees of The Greenville Hospital System by Title to Real Estate, dated April 10, 1991, for consideration of \$471,437.00.

This matter is reported to the Commission in accordance with the requirements of Code Section 57-5-340.

File 23.666 - US Route 25 - Greenville County

SURPLUS RIGHT OF WAY PROPERTY - LAND

On May 27, 1952, under File 26.300, the Department added Road S-138 (Now SC Route 73) in the City of Myrtle Beach to the State Highway System.

At the request of the adjoining owner, on the northern side of the intersection of Sunset Trail and Ocean Blvd. (SC Route 73), an investigation was made and it was determined that a portion of the right of way at this location was no longer needed and could be relinquished. Therefore, a gratis quitclaim deed conveying an approximate 0.026 acre parcel of land to Nick Angel was executed on September 30, 1991.

This matter is reported to the Commission in accordance with the requirements of Code Section 57-5-340.

File 26.300 - Rd. S-138 (Now SC Rt. 73) - Horry County

Recommendation for September 25, 1991.

BUILDING CONSTRUCTION CONTRACT AWARD

Pickens DMV Office  
Project No. U12-9551-MJ/MSC279.1

It is recommended that the Commission approve a building construction contract with Justice Construction Company of Greenville, South Carolina for the above referenced project. Justice submitted the low bid of \$440,777.00 and this was well within budget.

Recommendations - 10/25/91

EXTENSION OF BITUMINOUS RETREATMENT CONTRACTS  
TO INCLUDE ADDITIONAL RESURFACING WORK

It is recommended that the Commission approve the action of the Department in extending existing bituminous retreatment contracts to include additional resurfacing work, as follows:

Clarendon County

Contract of J. F. Cleckley and Co. - File No. 14.1056 - extended to include resurfacing (File No. 14.1056) of Road S-79, 0.75 mile from 0.65 mile west of Road S-63 to 1.40 miles west of Road S-63.

Estimated Cost of Extension \$ 33,515.50

Darlington County

Contract of Ocean Lakes Construction, Inc. - File No. 16.1075 - extended to include resurfacing (File No. 16.1075) of Road S-121, 0.20 mile from Road S-243 to Road S-20 and Road S-243, 0.22 mile from Road S-21 to Road S-121.

Estimated Cost of Extension \$ 13,001.14

Fairfield County

Contract of Sloan Construction Company - File Nos. - 20.1068 and 20.501 - extended to include resurfacing (File No. 20.1068) of Road S-189, 0.26 mile from Road S-185 to Road S-118.

Estimated Cost of Extension \$ 7,679.95



Recommendations - 10/25/91

Extension of Bituminous Retreatment Contracts

Laurens County

Contract of Sloan Construction Company, Inc. - File Nos. 30.10105 and 30.734 - extended to include resurfacing (File No. 30.10105) of US Route 76 for 2798 feet adjacent to Walmart near Town of Clinton.

Estimated Cost of Extension \$40,630.50

Lee County

Contract of Highway Materials, Inc. - File No. 31.1056 - extended to include resurfacing (File No. 31.1056) of Frontage Road, 0.20 mile from SC Route 341 to end of pavement.

Estimated Cost of Extension \$ 9,766.20

York County

Contract of REA Construction Company - File Nos. 46.10104 and 46.916 - extended to include an additional section of Project C-916 (File No. 46.916) consisting of the resurfacing of 0.10 mile on US 21 Business from SC Route 160 to Road S-265; 0.15 mile on SC Route 160 from US Route 21 Business to Road S-1442; 0.25 mile on Road S-96 from Road S-100 to SC Route 160; 0.30 mile on Road S-261 from Road S-294 to Road S-1162; 0.15 mile on Road S-264 from Yorktown to Road S-100; 0.20 mile on Road S-275 from Road S-294 to Road S-261; 0.10 mile on Road S-282 from Road S-270 to Road S-267; and 0.30 mile on Road S-1163 from SC Route 160/21 Business to Road S-1163.

Estimated Cost of Extension \$62,803.70

Recommendations - 10/25/91  
Extension of Bituminous Retreatment Contracts

York County

Contract of REA Construction Company - File Nos. 46.10104 and 46.916 - extended to include an additional section of Project C-916 (File No. 46.916) consisting of the resurfacing of 0.15 mile on Road S-1407 from SC Route 51 to end of State maintenance; 0.45 mile on Road S-1521 from Road S-30 to Road S-1522; 0.25 mile on Road S-1522 from Road S-1521 to end of State maintenance and 0.10 mile on Road S-1523 from Road S-1521 to end of State maintenance.

Estimated cost of extension	\$ 40,989.95
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These extensions were authorized by the Department prior to formal approval by the Commission since the adjacent work had reached such a stage of completion that the contractors involved could not accept the additional work unless it were authorized without delay.

Recommendations - 10/25/91

EXTENSION OF CONSTRUCTION CONTRACT

It is recommended that the Commission approve the action of the Department in extending existing construction contracts to include additional resurfacing work, as follows:

Charleston County

Contract of Sanders Brothers Construction Company, Inc.  
- File No. 10.258A - extended to include an additional section of Project C-258A (File No. 10.258A) consisting of the resurfacing with asphaltic concrete surfacing of 0.31 mile on Road S-1168 from end of curb and gutter near S. C. Route 61 to dead end.

Estimated Cost of Extension \$ 13,321.28

Greenville County

Contract of Thrift Brothers, Inc. - File No. 23.228A - extended to include an additional section of Project C-228A (File No. 23.228A ) consisting of the drainage improvements on 0.104 mile on S. C. Route 146 at Advent Methodist Church northwest of S. C. Route 296.

Estimated Cost of Extension \$10,539.00

Contract of Sloan Construction Company, Inc. - File No. 23.251A - extended to include an additional section of Project C-251A (File No. 23.251A) consisting of the resurfacing with asphalt concrete surfacing of 0.31 mile on Road S-471 (Newland Street) from SC Route 253 to Furman Avenue and 0.46 mile on Road S-513 (Parris Mountain Avenue) from Road S-188 to Road S-87.

Estimated Cost of Extension \$27,016.73

Recommendations - 10/25/91  
Extension of Construction Contracts

These extensions were authorized by the Department prior to formal approval by the Commission since the adjacent work had reached such a stage of completion that the contractors involved could not accept the additional work unless it were authorized without delay.

PURCH ORDER NUMBER	STATE PURCH DIVISION CONTRACT NUMBER	VENDOR	COMMODITY	UNIT PRICE	TOTAL PRICE
74945		3M Company Co.	High Intensity Sheeting		32,898.96
74975		A G Steel	Steel Bearing Piles		39,920.00
74977		Pre-Stress Concrete Co.	Precast Barrier Sections		13,160.00
75081		Glasscock Co.	Aggregate		10,425.00
75113	C101613001	Seaboard Industries	Motor Oil		36,283.00
75175	C101448001	Seaco	Emulsified Asphalt		18,531.61
75197	B200077	Jet Vac Sanitary Serv.	Pipe Cleaner		119,978.69
75198	B200028	Meco Of Florence	Hydraulic Lift		12,133.00
75199	B200028	Meco Of Florence	Hydraulic Lift		15,414.00
75200	B200028	Meco Of Florence	Hydraulic Lift		15,414.00
75201	B200028	Meco Of Florence	Hydraulic Lift		12,133.00
75202	B200028	Meco Of Florence	Hydraulic Lift		15,414.00
75203	B200028	Meco Of Florence	Hydraulic Lift		12,133.00
75204	B200028	Meco Of Florence	Hydraulic Lift		15,414.00
75205	B200028	Meco Of Florence	Hydraulic Lift		15,414.00
75206	B200028	Meco Of Florence	Hydraulic Lift		15,414.00
75257	B200076	Environmental Energy Systems	Asphalt Patcher		109,600.00
75267	C102007001	Colprovia Asphalts Div.Of Seaco	Cold Laid Asphalt		14,350.00
75268	C102007001	Colprovia Asphalts Div.Of Seaco	Cold Laid Asphalt		48,042.00
75269	C102007001	Colprovia Asphalts Div.Of Seaco	Cold Laid Asphalt		29,300.00
75314	C101448001	Seaco, Inc.	Emulsified Asphalt		24,368.45
75318		CGS Hornet Express	Aggregate		51,907.80
75347	C100680004	Colprovia Asphalts Div.Of Seaco	Cold Laid Asphalt		10,440.00
75348	C102007001	Colprovia Asphalts Div.Of Seaco	Cold Laid Asphalt		13,180.00
75349	C102007001	Colprovia Asphalts Div.Of Seaco	Cold Laid Asphalt		13,530.00
75361	C101448001	Seaco, Inc.	Emulsified Asphalt		24,247.64
75460	1-205-50414	Computerland Of Cola.	Computers & Accessories		10,888.44
75472	HL00020	Satterfield Constr. Co.	Hot Laid Asphalt		17,136.26
75480	HL00022	Sloan Constr. Co.	Hot Laid Asphalt		23,988.28
75502		Associated Contractors	Aggregate		14,500.00



PURCH ORDER NUMBER	STATE PURCH DIVISION CONTRACT NUMBER	VENDOR	COMMODITY	UNIT PRICE	TOTAL PRICE
75503		Associated Contractors	Aggregate		10,251.50
75505		SC & K Trust, Inc	Aggregate		10,044.00
75511	C002650002	Advanced Micrographics Support	Microfilm Supplies		19,109.40
75571	1-205-07067	IBM Corporation	Controllers & Accessories		19,381.20
75574	1-205-50414	Computerland Of Cola.	Personal Computers & Accessories		10,309.48
75580	1-205-50414	Computerland Of Cola.	Personal Computers & Accessories		12,244.34
75607		3M Company	Pavement Marking Tape		17,640.00
75612		3M Company	Pavement Marking Tape		14,100.60
75613	C000427002	Hardee Manufacuin Co.	Mowers	5,246.00	10,492.00
75645		Becker Minerals	Aggregate		14,835.00
75646		Becker Minerals	Aggregate		22,180.00
75655		P & M Trucking Co.	Concrete		18,000.00
75659	C102007001	Seaco, Inc.	Emulsified Asphalt		40,050.00
75660	C1022007001	Colprovia Asphalts Div.Of Seaco	Cold Laid Asphalt		40,350.00
75661	C102007001	Colprovia Asphalts Div.Of Seaco	Cold Laid Asphalt		11,736.00
75664	C102007001	Seaco, Inc.	Emulsified Asphalt		18,475.00
75668	C101824001	Miller Tire Serv.	Tires		24,441.00
75695		Florence Concrete Prod.	Precast Spans		13,966.00
75697		Pre-Stress Concrete Co.	Precast Spans		29,789.00
75699		Amick Equip. Co.	Brush Chippers	13,980.00	27,960.00
75745		Lawson Cattle & Equip.	SOD Aerator/Breaker & Access.		12,113.95
75747	B101992	Transyt Corp.	Closed Loop Signal Equip.		78,497.00
75749		Goodlett Equip, Inc.	Sweepers	9,244.00	18,488.00
75751		Seaboard Industries	Tractor Fluid		10,760.00
75753		Seaboard Industries	Motor Oil		13,830.00
75756	C100145001	Motorola, Inc.	Sign Blanks		31,564.80
75768	B200224	Vulcan Signs & Stampings	Aluminum Sign Blanks		24,205.75
75809	C101448001	Seaco, Inc.	Emulsified Asphalt		21,306.17
75810	C101448001	Seaco, Inc.	Emulsified Asphalt		15,320.66
75966	HL00027	Sloan Constr. Co.	Hot Laid Asphalt		19,216.56

PURCH ORDER NUMBER	STATE PURCH DIVISION CONTRACT NUMBER	VENDOR	COMMODITY	UNIT PRICE	TOTAL PRICE
75975		Colonial Bldg. Maint.	Floor Care Services		13,671.00
76016	C101446001	Franklin Steel Co.	Galvanized Metal Posts		10,871.19
76066		Marden Sales	Overhead Comm. Cable		12,271.50
76070		N W White & Co.	Aggregate		22,041.52
76071		N W White & Co.	Aggregate		22,192.96
76075		Wilkes Tree Serv.	Tree Cutting Services		115,480.00
76076		Associated Contractors	Tree Cutting Services		41,125.00
76077		Wilkes Tree Serv.	Tree Cutting Services		61,000.00
76078		Wilkes Tree Serv.	Tree Cutting Services		57,740.00
76080	B2000040	Linear Dynamics	Centerline Machine		127,446.00
76103		Rainhart Co.	Test Trailer		10,190.00
76108	HL00007	J.F. Cleckley & Co.	Hot Laid Asphalt		28,450.00
76122	C102007001	Colprovia Asphalts Div.Of Seaco	Cold Laid Asphalt		13,640.00
76123	C102007001	Colprovia Asphalts Div.Of Seaco	Cold Laid Asphalt		11,360.00
76173	AG00008	Vulcan Materials Co.	Aggregate		20,700.00
76177	AG00008	Vulcan Materials Co.	Aggregate		15,437.35
76194		Owsley & Sons	Pile Driver Adaptor		19,023.00
76200	C102007001	Colprovia Asphalts Div.Of Seaco	Cold Laid Asphalt		10,272.50
76201	C102007001	Colprovia Asphalts Div.Of Seaco	Cold Laid Asphalt		14,650.00
76211		Stratton Hats	S.C. Hwy.Patrol Straw Hats		49,125.00
76321	C102007001	Seaco, Inc.	Emulsified Asphalt		16,812.24
76326	HL00002	APAC Carolina, Inc.	Hot Laid Asphalt		15,867.20
76330	BM00010	APAC Carolina, Inc.	Cold Laid Asphalt		10,320.45
76341	HL00012	Jim Lineberger Grading & Paving	Hot Laid Asphalt		14,358.10
425452*	1-405-00227	Amoco Oil Co.	Gasoline		13,218.55

BIDS RECEIVED BY THE DEPARTMENT  
AT ITS LETTING OF OCTOBER 8, 1991  
COLUMBIA

PURSUANT TO NEWSPAPER ADVERTISEMENTS OF AUGUST 29, 1991 AND SEPTEMBER 5, 1991, SEVENTY SEVEN BIDS WERE RECEIVED BY THE DEPARTMENT AT ITS LETTING OF OCTOBER 8, 1991, FOR THE SIXTEEN PROJECTS LISTED BELOW AND IT IS RECOMMENDED THAT THE COMMISSION CONCUR IN THE FOLLOWING ACTIONS.

WITH THE EXCEPTION OF DILLON-MARION COUNTIES - S. C. FILE NO. 1734.478, ALL THE PROJECTS ARE RECOMMENDED FOR AWARD WITH THE UNDERSTANDING THAT THE AWARDS OF CONTRACTS ON F. A. PRIMARY AND INTERSTATE PROJECTS ARE SUBJECT TO THE APPROVAL OF THE FEDERAL HIGHWAY ADMINISTRATION.

RESULTS OF THE BIDS ARE AS FOLLOWS:

RECOMMENDED FOR AWARD

1. BRIDGE & APPROACH WORK

BEAUFORT COUNTY

S.C. FILE NO. 7.545.1 - STATE PROJECT NO. SHP-6891 - (BRIDGE & APPROACH WORK) - US RTE. 17/21 - TYPE: CONSTRUCTION OF (2) 90'-0" R. C. FLAT SLAB TWIN BRIDGES OVER HUSPAH CREEK AND ASPH. CONC. SURF. OF APPROACHES ALONG US RTE 17/21 NORTHWEST OF BEAUFORT. TOTAL LENGTH OF APPROACHES : N/A.

NUMBER OF BIDDERS - 2

LOWEST RESPONSIVE BIDDER - TIC SOUTHEAST, INC., SAVANNAH, GA.

AMOUNT.....\$473,874.00

GREENWOOD COUNTY

S.C. FILE NO. 24.569 - FED AID PROJECT NO. BRZ-2024(6) - (BRIDGE & APPROACH WORK) - RD. S-111 - TYPE: REPLACING EXISTING BRIDGE WITH A 150'-0" R.C. FLAT SLAB BRIDGE OVER TURKEY CREEK AND ASPH. CONC. SURF. OF 0.170 MILES OF APPROACHES ALONG RD. S-111 IN THE TOWN OF WARE SHOALS. TOTAL LENGTH OF APPROACHES: 0.170 MILE.

NUMBER OF BIDDERS - 5

LOWEST RESPONSIVE BIDDER - UNITED CONTRACTORS, INC., CHESTER, S. C.

AMOUNT.....\$366,390.26

GREENWOOD COUNTY

S.C. FILE NO. 24.570 - FED AID PROJECT NO. BRZ-2024(7) - (BRIDGE & APPROACH WORK) - RD. S-73 - TYPE: REPLACING EXISTING BRIDGE WITH A 90'-0" R.C. (FLAT SLAB) BRIDGE OVER SAMPLE BRANCH AND ASPH. CONC. SURF. OF 0.199 MILE OF APPROACHES ALONG RD. S-73 NORTH OF GREENWOOD. TOTAL LENGTH OF APPROACHES - 0.199 MILE.

NUMBER OF BIDDERS - 4

LOWEST RESPONSIVE BIDDER - BLACKMON CONSTRUCTION CO., INC., MOUNTVILLE, S. C.

AMOUNT.....\$329,826.11

SPARTANBURG COUNTY

S.C. FILE NO. 42.128A.1 - FED AID PROJECT NO. ID-MAIR-IR-85-3(72) - (BRIDGE WORK) - US RTE. I-85 (RELOCATED) - TYPE - CONSTRUCTING A 381'-7 13/16" NBL, AND A 394'-8 1/4" SBL R.C. & S.S. (CURVED GIRDERS) DUAL OVERPASSES OVER RAMPS 85-3 AND 85-SBL ALONG INTERSTATE ROUTE 85 WEST OF SPARTANBURG.

NUMBER OF BIDDERS - 8

LOWEST RESPONSIVE BIDDER - LEE CONSTRUCTION CO., CHARLOTTE, N. C.

AMOUNT.....\$2,412,465.30

2. ROAD WORK

BARNWELL COUNTY

S.C. FILE NO. 6.551 - STATE PROJECT NO. C-551 - (ROAD WORK) - RDS. S-805, S-813 - TYPE: GRAD, DRAIN & ASPH.CONC.SURF. OF 0.243 MILE ON RD. S-805 (ITEM 200726) FROM RD. S-686 TO U.S. RTE. 278, 0.248 MI. ON RD. S-813 (ITEM 200877) FROM RD. S-780 TO RD. S-780. TOTAL LENGTH OF PROJECT : 0.491 MILES. NO BONDS REQUIRED PER SECTION 12-27-1320 OF THE 1976 CODE, AS AMENDED BY SECTION 45B, PART II, ACT 189 OF 1989, AND AS FURTHER AMENDED BY SECTION 28B, PART II, ACT 612 OF 1990.

NUMBER OF BIDDERS - 2

LOWEST RESPONSIVE BIDDER - TAYLOR BROTHERS CONSTRUCTION CO., INC., COLUMBIA, S. C.

AMOUNT.....\$127,297.30

CHARLESTON COUNTY

S.C. FILE NO. 10.223A - FED AID PROJECT NO. HES-8910(1) - (ROAD WORK) - RDS. S-1168, S-1373 - TYPE: WIDEN, GRAD, DRAIN, CONSTR. OF CONC. CURB, GUTTER, SIDEWALK AND ASPH. CONC. SURF. OF 0.363 MILE ON RD. S-1168 (ITEM 091284) INT. WITH RD S-1373, 0.187 MILE ON RD. S-1168 AND 0.176 MILE ON RD. S-1373. TOTAL LENGTH OF PROJECT : 0.363 MILES.

NUMBER OF BIDDERS - 3

LOWEST RESPONSIVE BIDDER - TRULUCK INDUSTRIES, INC., DBA TRULUCK CONSTR., CHARLESTON, S. C.

AMOUNT.....\$257,546.65

DORCHESTER COUNTY

S.C. FILE NO. 18.564 - STATE PROJECT NO. C-564 - (ROAD WORK) - US RTE. 15 - TYPE: GRAD, DRAIN, ASPH.CONC.SURF., CONSTR. OF CONC. CURB, GUTTER, SIDEWALK AND CONSTR. OF BEAUTIFICATION SITES OF 0.274 MILE ON US RTE 15 (ITEM 200860) FROM RD. S-39 (RAYSOR ST.) TO RD. S-104 (RAILROAD AVE.). TOTAL LENGTH OF PROJECT: 0.274 MILES.

NUMBER OF BIDDERS - 5

LOWEST RESPONSIVE BIDDER - TRULUCK INDUSTRIES, DBA TRULUCK CONSTR., CHARLESTON, S. C.

AMOUNT.....\$95,112.00

GEORGETOWN-HORRY COUNTIES

S.C. FILE NOS. 22.585 & 26.825 - STATE PROJECT NOS. C-585 & SS-825 - (ROAD WORK) - RDS. S-65, S-155, S-559 - TYPE: GRAD, DRAIN, CONSTR. OF CONC. SIDEWALKS OF 0.870 MILE ON RD. S-65 (ITEM 029868) FROM HORRY CO. LINE SE FOR 0.87 MI., 1.285 MILE ON RD. S-155 (ITEM 029962) FROM RD. S-71 (WOODLAND DR.) TO GEORGETOWN CO. LINE, AND GRAD, DRAIN & ASPH.CONC.SURF. OF BICYCLE PATHS FOR 0.606 MILE ON RD. S-559 (ITEM 028783) FROM 0.072 MI. E. OF RD. S-469 TO RD. S-831. TOTAL LENGTH OF PROJECT : 2.761 MILES.

NUMBER OF BIDDERS - 8

LOWEST RESPONSIVE BIDDER - WEAVER CONSTRUCTION CO., INC., CONWAY, S. C.

AMOUNT.....\$317,401.40

GREENVILLE COUNTY

S.C. FILE NO. 23.264A - STATE PROJECT NO. C-264A - (ROAD WORK) - RDS. S-165, S-527 - TYPE: GRAD, DRAIN, RESURF. WITH ASPH.CONC.SURF. CONSTR. OF CONC. CURB, GUTTER AND SIDEWALK OF 0.485 MILE ON RD. S-165 (ITEM 029661) FROM RD. S-167 SW FOR 0.448 MI AND 0.037 MILE ON SIDEROADS, AND GRAD, DRAIN & ASPH.CONC.SURF. OF 0.671 MILE ON RD. S-527 (ITEM 029466) FROM RD. S-22 TO RD. S-1057. TOTAL LENGTH OF PROJECT : 1.156 MILES.

NUMBER OF BIDDERS - 5

LOWEST RESPONSIVE BIDDER - REEVES BROTHERS CONSTRUCTION CO., INC., EASLEY, S. C.

AMOUNT.....\$399,999.20

HAMPTON COUNTY

S.C. FILE NO. 25.554 - STATE PROJECT NO. C-554 - (ROAD WORK) - RDS. S-798, S-807, S-809 - TYPE: GRAD, DRAIN & ASPH.CONC.SURF. OF 0.080 MILE ON RD. S-798 (ITEM 028934) FROM RD. S-632 TO RD. S-45, GRAD, DRAIN & BIT. SURF. OF 0.157 MILE ON RD. S-807 (ITEM 029255) FROM RD. S-48 NORTHWESTERLY FOR 0.157 MI AND 0.479 MILE ON RD. S-809 (ITEM 029474) FROM RD. S-533 NW & SE FOR 0.479 MILE. TOTAL LENGTH OF PROJECT : 0.716 MILES.

NUMBER OF BIDDERS - 4

LOWEST RESPONSIVE BIDDER - CLELAND CONSTRUCTION CO., INC., HILTON HEAD, S. C.

AMOUNT.....\$179,442.47

LEE COUNTY

S.C. FILE NO. 31.430 - STATE PROJECT NO. C-430 - (ROAD WORK) - RDS. S-507, S-511 - TYPE: GRAD, DRAIN & BIT. SURF. OF 0.518 MILE ON RD. S-507 (ITEM 200297) FROM US RT. 76 SE FOR 0.518 MI. AND 0.351 MILE ON RD. S-511 (ITEM 200338) FROM SC ROUTE 341 TO SC ROUTE 527. TOTAL LENGTH OF PROJECT : 0.869 MILES.

NUMBER OF BIDDERS - 7

LOWEST RESPONSIVE BIDDER - A. P. BOWDEN CONSTRUCTION, INC., CAMDEN, S. C.

AMOUNT.....\$107,042.03

LEXINGTON COUNTY

S.C. FILE NO. 32.103A - STATE PROJECT NO. C-103A - (ROAD WORK) - RDS. S-1578, S-1848 - TYPE: GRAD, DRAIN & BIT. SURF. OF 0.538 MILE ON RD. S-1578 (ITEM 200552) FROM SC RTE. 302 SE FOR 0.538 MI., 0.972 MILE ON RD. S-1848 (ITEM 200550) FROM RD. S-34 NORTHERLY TO PRESENT RD. S-1848. TOTAL LENGTH OF PROJECT : 1.510 MILES.

NUMBER OF BIDDERS - 7

LOWEST RESPONSIVE BIDDER - SOX & SONS CONSTRUCTION CO., INC., WEST COLUMBIA, S. C.

AMOUNT.....\$190,553.67

ORANGEBURG COUNTY

S.C. FILE NO. 38.961 - STATE PROJECT NO. C-961 - (ROAD WORK) - SC RTE. 332 & RDS. S-214, S-1028/661, S-1016, S-1996, S-2052, S-2083 - TYPE: GRAD, DRAIN, & CONSTR. OF CONC. SIDEWALKS (ITEM 200583) SIDEWALKS IN NORWAY, 0.192 MILE ON SC RTE. 332, 0.301 MILE ON RD. S-214, 0.355 MILE ON RD. S-1028/661, 0.080 MILE ON RD. S-1016 FOR A TOTAL OF 0.928 MILE ON ITEM 200583, GRAD, DRAIN AND ASPH. CONC. SURF. OF 0.246 MILE ON RD. S-1996 (ITEM 200835) FROM 0.21 MILE NW OF RD. S-1117 TO 0.46 MILE NW OF RD. S-1117, 0.379 MILE ON RD. S-2052 (ITEM 200901) FROM RD. S-170 SE FOR 0.379 MILE PARALLEL TO I-26 AND 0.429 MILE ON RD. S-2083 (ITEM 200837) FROM US RTE. 301 AND 601 NW FOR 0.429 MILE. TOTAL LENGTH OF PROJECT : 1.982 MILES.

NUMBER OF BIDDERS - 1

LOWEST RESPONSIVE BIDDER - J. F. CLECKLEY & CO., ORANGEBURG, S. C.

AMOUNT.....\$204,033.98

RICHLAND COUNTY

S.C. FILE NOS. 40.384A & 40.384A.1 - FED AID PROJECT NO. F-FG-137(070) - (ROAD & BRIDGE WORK) - US RTE. 176 - TYPE: WID, GRAD, DRAIN, ASPH. CONC. SURF. CONSTR. OF CONC. CURB, GUTTER, SIDEWALK & TEMPORARY AND PERMANENT PAVEMENT MARKINGS OF 0.768 MILE ON US RTE. 176 (RIVER DR.), 0.191 MILE ON SUNSET DR. (SC 16) TO BROAD RIVER AND AND 0.095 MILE ON GIBSON RD. (RELOCATION) AND ALSO REPLACING EXISTING OVERPASS WITH A 117'x 64' R.C. FLAT SLAB AND R.C. & S.S. (BEAMS) OVERPASS OVER SOUTHERN RAILWAY ALONG US RTE. 176 IN THE CITY OF COLUMBIA. TOTAL LENGTH OF PROJECT : 1.054 MILES.

NUMBER OF BIDDERS - 5

LOWEST RESPONSIVE BIDDER - CHEROKEE, INC., COLUMBIA, S. C.

AMOUNT.....\$1,893,531.32

RICHLAND COUNTY

S.C. FILE NOS. 40.393A & 40.428A - FED AID PROJECT NO. MAM-5024(14) - STATE PROJECT NO. C-428A - (ROAD WORK) - US RTE. 1 & RD. S-2033 - TYPE: WID, GRAD, DRAIN, & ASPH. CONC. SURF. OF 0.379 MILE ON US RTE. 1 (ITEM 29892) FROM TURNING LANES TO RD. S-2033 AND GRAD, DRAIN, ASPH. CONC. SURF., CONSTR. OF CONC. CURB, GUTTER & SIDEWALK OF 0.560 MILE ON RD. S-2033 (ITEM 029892) FROM SPRING VALLEY SCHOOL TO RD. S-2271 (RISDON WAY) AND TEMPORARY & PERMANENT PAVEMENT MARKINGS. TOTAL LENGTH OF PROJECT : 1.278 MILES.

NUMBER OF BIDDERS - 8

LOWEST RESPONSIVE BIDDER - SOX & SONS CONSTRUCTION CO., INC., WEST COLUMBIA, S. C.

AMOUNT.....\$751,279.90



RECOMMENDED FOR REJECTION

BRIDGE & APPROACH WORK

DILLON-MARION COUNTIES

S. C. FILE NO. 1734.478 - FED AID PROJECT NO. BRZ-5017(3) - (BRIDGE & APPROACH WORK)  
- RD. S-42 - TYPE- REPLACING EXISTING BRIDGE WITH A 240'X 34' R.C. (FLAT SLAB) BRIDGE OVER  
BUCK SWAMP AND ASPH. CONC. SURF. OF 0.314 MILE OF APPROACHES ALONG RD. S-42 AND RD. S-21 SW  
OF LAKE VIEW.

NUMBER OF BIDDERS - 3

LOWEST RESPONSIVE BIDDER - REPUBLIC CONTRACTING CORP., COLUMBIA, S. C.

AMOUNT.....\$520,574.68

BIDS RECEIVED BY THE DEPARTMENT  
AT ITS LETTING OF SEPTEMBER 10, 1991  
COLUMBIA

PURSUANT TO NEWSPAPER ADVERTISEMENTS OF AUGUST 1, 1991 AND AUGUST 8, 1991, TWO BIDS WERE RECEIVED BY THE DEPARTMENT AT ITS LETTING OF SEPTEMBER 10, 1991, FOR THE FOLLOWING PROJECT LISTED BELOW AND IT IS RECOMMENDED THAT THE COMMISSION CONCUR IN REJECTION OF ALL BIDS ON THIS PROJECT.

RESULTS OF THE BIDS ARE AS FOLLOWS:

BERKELEY COUNTY

S.C. FILE NO. 8.698 - STATE PROJECT NO. C-698 - (ROAD WORK) - RDS. S-29, S-485 & S-1270 - TYPE: WID., GRAD., DRAIN. & ASPH.CONC.SURF., CONSTR. OF CONC. CURB, GUTTER & SIDEWALK OF 0.134 MILE ON RD. S-29 (ITEM 200033) INTERSECTION IMPROVEMENTS @ RD. S-29 (RED BANK RD.), 0.075 MILE ON RD. S-485 AND 0.059 MILE ON UNNAMED ST., AND GRAD., DRAIN., & ASPH. CONC. SURF. OF 0.230 MILE ON RD. S-1270 (ITEM 200624) FROM I-26 FRONT.RD. TO SANGAREE PKWAY. TOTAL LENGTH OF PROJECT: 0.364 MILE. NO BONDS REQUIRED PER SECTION 12-27-1320 OF THE 1976 CODE, AS AMENDED BY SECTION 45B, PART II, ACT 189 OF 1989, AND AS FURTHER AMENDED BY SECTION 28B, PART II, ACT 612 OF 1990.

NUMBER OF BIDDERS - 2

LOWEST RESPONSIVE BIDDER - W. FRAZIER CONSTRUCTION, INC., RAVENEL, S. C.

AMOUNT.....\$113,872.54

RECOMMENDATION

October 25, 1991

To extend the current supportive services contract for the DBE Program for two months. This will avoid a break in supportive services for the DBE contractors during the protest process of the Request for Proposals (No. B200142, DBE Supportive Services) and (No. B200400, Technical and Business Development Assistance).

This modification is for the extension of the DBE supportive services under this agreement from November 1, 1991, through December 31, 1991, or upon the award of a new contract for DBE Supportive Services, whichever occurs first. The cost for this contract modification will not exceed \$12,709.

In addition, the Department reserves the right to exercise a one time two month option to extend this modification from January 1, 1992, through February 29, 1992. The cost of this option period will not exceed \$12,709.

This modification also extends the Technical and Business Development Assistance under this agreement from November 1, 1991, through December 31, 1991, or upon the award of a new contract for Technical and Business Development Assistance, whichever occurs first. The cost for this contract modification will not exceed \$16,120.

The Department also reserves the right to exercise a one time two month option to extend the Technical and Business Development Assistance modification from January 1, 1992, through February 29, 1992. The cost of this option period will not exceed \$16,120.

The total for the first two month extension shall not exceed \$28,829 and the total for the second two month option period shall not exceed \$28,829.



SCDHPT PROPOSED OBLIGATIONS  
FY 1991 - 92  
(10/91 - 9/92)  
OCTOBER 1991

INDEX NOTE:

COUNTIES ARE LISTED IN ORDER  
WITHIN DESIGNATED CATEGORIES AS  
DEFINED IN THE STATE HIGHWAY  
IMPROVEMENT PROGRAM (SHIP)

SHIP PROGRAM GROUPS :

HIGHLY DEVELOPED COUNTIES (RED) - PAGES 1 - 9  
MODERATELY DEVELOPED COUNTIES (GREEN) - PAGES 10 - 21  
RURAL COUNTIES (YELLOW) - PAGES 22 - 46  
STATEWIDE - PAGE 47

Dual County Projects may only be shown  
in one county.

10/17/91

HIGHLY DEVELOPED COUNTY (RED)

PIN	LOCAL NAME OR RD-KT	TERMINI FROM TU	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
246 I-26		RD S-13 (REMOUNT RD)	BARRIER WALL	10.000	2,000	FEDERAL	2
210 I-26		TERMINAL INTCHG AT US 17 AT RD S-62 (MONTAGUE AVE) (SE & SW QUADRANTS)	RELOCATE 2 FRONT RD.	0.967	350	FEDERAL	2
12274 I-526		CHANGEABLE MESSAGE SIGN SYSTEM	PREL.ENGR.	0.000	100	FEDERAL	1
11999 I-526		US RTE 17/SC RTE 7 SC RTE 171	PREL.ENGR.	0.000	1,875	FEDERAL	4
12829 S-76		DORCHESTER CO LINE US RT 78	PREL.ENGR.	2.300	100	FEDERAL	4
12833 S-790		US RT 52 RD S-1400	PREL.ENGR.	0.400	35	FEDERAL	4
6871 S-1028		RD S-1755 (THERESA DR) SC RT 171 (FULLY RD)	MULTILANE	0.300	400	FEDERAL	4
12931 S-2028		RD S-75 SC RT 642	PREL.ENGR.	2.150	15	FEDERAL	1
7771 SC30		SC RT 61 CONNECTOR DILL CREEK	PILINGS	0.000	8,400	FEDERAL	4
1476 SC61		S-1863 (MAGWOOD DR) N OF S-57, BEES FERRY	FREEWAY NEW LOC.	5.700	4,500	FEDERAL	4
12395 SC61 CO		DUAL OP OVER US 17/SC 700	BR-DUAL FD	0.000	2,002	FEDERAL	4
12396 SC61 CO		JAMES ISLAND EXPRESSWAY US RT 17 (C2)	BR/APPROS.	0.000	7,000	FEDERAL	4
2720 SC61 CO		JAMES ISLAND EXPRESSWAY US RT 17 (C2)	BR/APPROS.	0.000	7,000	FEDERAL	4
3242 SC61 CO		DUAL OP OVER US 17/SC 700	DUAL OP (CONSULT)	0.000	2,002	FEDERAL	4
3128 US17		N & SBL APPROS FOR BRIDGE OVER S-1194 (LOCKWOOD DR)	APPROX (N & SBL) (CONSULT)	1.000	1,050	FEDERAL	4
3128 US17		BR OVER RD S-1194 (LOCKWOOD DRIVE)	BRIDGE (CONSULT)	0.200	3,700	FEDERAL	4
892 US78		US RT 52 NEAR I-26	R/W	2.840	850	FEDERAL	4
COUNTY TOTAL -				41,379			
* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE							

10/17/91

HIGHLY DEVELOPED COUNTY (RED)

PIN	LOCAL NAME OR RD-KT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
8077	WORLEY ROAD (C-310)	DRS OVER CSX AND HURFOLK SOU RAILROADS	R/W	0.300	150	FEDERAL	3
8453	I-85	NORTH OF SALUDA RIVER	WIDEN 6	1.950	10,090	FEDERAL	2
8528	I-85	SOUTH OF SC-20 (C2) N OF SALUDA RIVER	LANE (CONSULT) RD-DUAL FD	1.910	306	FEDERAL	2
8458	I-85	N OF SC RT 20 (C2) SOUTH OF AUGUSTA ROAD	WIDEN 6	1.990	12,237	FEDERAL	2
8560	I-85	NORTH OF REEDY RIVER (C4) BRIDGE OVER BRUSHY CREEK	LANE (CONSULT) NEW BRIDGE	0.000	237	FEDERAL	2
8561	I-85	(CONTRACT 4) BR OVER BRUSHY CK (#15)	(CONSULT) NEW BRIDGE	0.000	592	FEDERAL	2
8562	I-85	(CONTRACT 4) BR OVER REEDY RIVER AND	(CONSULT) NEW BRIDGE	0.000	440	FEDERAL	2
8563	I-85	PARKINS MILL RD (C4) NB CD BR OVER REEDY RIVER	(CONSULT) NEW BRIDGE	0.000	299	FEDERAL	2
8564	I-85	AND PARKINS MILL RD BRIDGE OVER I-85 AND CD	(CONSULT) REPLACE UNDERPASS	0.000	1,202	FEDERAL	2
8565	I-85	(C4) (BR #17) BRIDGE OVER I-85 AND CD	(CONSULT) REPLACE UNDERPASS	0.000	591	FEDERAL	2
8554	I-85	(C4) (BR #17) SOUTH FRONTAGE RD BR OVER	(CONSULT) NEW BRIDGE	0.000	217	FEDERAL	2
8555	I-85	BRUSHY CK (BR 11, C4) US 25 BUS (RAMP 1) BRIDGE	(CONSULT) NEW BRIDGE	0.000	169	FEDERAL	2
8556	I-85	OVER BRUSHY CK (C4) BR 13 (RAMP 3) OVER	(CONSULT) NEW BRIDGE	0.000	185	FEDERAL	2
8557	I-85	BRUSHY CREEK (C4) RAMP 7 BRIDGE OVER BRUSHY	(CONSULT) NEW BRIDGE	0.000	119	FEDERAL	2
8558	I-85	CREEK (C4) UP UNDER SC 291 RELOCATED	(CONSULT) UNDERPASS (CONSULT)	0.000	475	FEDERAL	2
8559	I-85	(C4) BRIDGE 14 UP AT I-185 (LINE G)	(CONSULT) UNDERPASS (CONSULT)	0.000	594	FEDERAL	2
8921	I-85	(BRIDGE 2) (C2) UP AT I-185 (LINE 2)	(CONSULT) UNDERPASS (CONSULT)	0.000	558	FEDERAL	2
358	I-85	(BRIDGE 3) (C2) TW UP AT CSX RAILROAD	(CONSULT) TWIN OVERPASS	0.000	374	FEDERAL	4
359	I-85	(BRIDGE 4) TW UPS AT SC RT 20	(CONSULT) WIDEN TWIN	0.000	924	FEDERAL	2
360	I-85	SOU RR AND S-245 (BR 5) BRIDGE OVER BRUSHY CREEK	OVERPASS (CONSULT) REPLACE BRIDGE	0.000	996	FEDERAL	2
354	I-85	AND I-85 (BR 10, C4) UP AT RD S-263	(CONSULT) REPLACE UNDERPASS	0.000	522	FEDERAL	2
377	I-85	(BRIDGE 1) (C2) WEIGH STATION NEAR	(CONSULT) NEW WEIGH STA.	0.000	3,000	FEDERAL	1
7520	I-385	I-85/I-385 INTERCHG NORTHEAST OF RD S-272	(CONSULT) PREL. ENGR. (CONSULT)	7.800	1,300	FEDERAL	2
7521	I-385	LAURENS CO LINE (SEC 1) NORTHWEST OF RD S-272	R/W	3.400	11,500	FEDERAL	2
9134	I-385	SOUTH OF RD S-55 (SEC 1) NW OF RD S-272 IN GRVL	RESURFACE	10.500	3,596	FEDERAL	2
8842	I-385 SP	SC RT 14B IN LAURENS STONE AVENUE	R/W	0.400	175	FEDERAL	4
		MANLY STREET					

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

## HIGHLY DEVELOPED COUNTY (RED)

PIN	LOCAL NAME OR RD-KT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
8841 I-385 SP		STONE AVENUE	WIDEN SIX	0.400	400	FEDERAL	4
2107 S-30		HANLY STREET	LANE				
		SC 291 (PLEASANTBURG)	R/W	0.300	100	FEDERAL	4
2106 S-30		US 25 (AUGUSTA RD)					
		I-85	R/W	0.400	150	FEDERAL	4
9163 S-440		SC 291 (PLEASANTBURG)					
		CAROLINA PIEDMONT RR XING	INSTALL SIGNAL	0.000	50	FEDERAL	1
		RD 640 369A AT MAULDIN					
1255 SC8		US 25 (WARE PLACE)	IMPROVE 2	4.100	950	FEDERAL	4
		N OF S-303 (PELZER)	LANE				
1258 SC8		BR AT SALUDA RIVER	REPLACE BRIDGE	0.000	1,487	FEDERAL	3
			(CONSULT)				
5595 SC8		BR AT GROVE CREEK	WIDEN AND	0.000	330	FEDERAL	3
			REHAB. BRIDGE				
12769 SC14		I-85	PREL.ENGR.	4.090	400	FEDERAL	4
		KELLY ST					
6225 SC14		INTER OF SC 14 AND S-164	R/W	0.500	50	FEDERAL	1
		TO 0.5 MI SOUTH OF INTER					
6223 SC14		INTER OF SC 14 AND S-164	REALIGN ROADWAY	0.500	200	FEDERAL	1
		TO 0.5 MI SOUTH OF INTER					
12300 SC146		WOODRUFF ROAD	PREL.ENGR.	0.000	5	FEDERAL	4
		SIGNAL SYSTEM					
12299 SC146		WOODRUFF ROAD	SIGNAL SYSTEM	0.000	120	FEDERAL	4
		SIGNAL SYSTEM					
8675 SC291		AT EAST NORTH STREET	R/W	0.000	260	FEDERAL	4
		INTERSECTION					
8674 SC291		AT EAST NORTH STREET	TURN LANES (CONSULT)	0.000	800	FEDERAL	4
		INTERSECTION					
8559 SC291		UP UNDER SC 291 RELOCATED	UNDERPASS (CONSULT)	0.000	1,195	FEDERAL	2
		(C4) BRIDGE 14					
5714 US25		0.6 MI S OF WARE PLACE	R/W	4.900	460	STATE	4
		0.2 MI S OF RD S-456					
6221 US25		CURLETON STREET	R/W	0.750	20	FEDERAL	1
		500' S OF TALLULAH DR					
12051 US25		S OF RD S-456	R/W	5.370	540	STATE	4
		N OF LAUENS CO LINE					
720 US25		GURDEN ROAD	R/W	1.600	1,100	FEDERAL	4
		RD S-63					
717 US25		EASLEY BRIDGE ROAD (S-85)	INTERCHG. AND	0.500	2,500	FEDERAL	4
		GURDON ROAD	APPROACHES (CONSULT)				
12864 US25		UNDERPASS UNDER US 123	UNDERPASS	0.000	1,278	FEDERAL	4
7064 US276		INTERS AT E ANTRIM DR AND	R/W	0.000	150	FEDERAL	4
		RD S-273 (HAYWOOD ROAD)					
7470 US276		HAYWOOD ROAD	R/W	1.500	2,000	FEDERAL	4
		I-85					
7062 US276		INTER AT E ANTRIM DR AND	TURN LANES (CONSULT)	1.000	350	FEDERAL	1
		RD S-273 (HAYWOOD ROAD)					

COUNTY TOTAL - 65,743

\* IMPROVEMENT TYPES: (1)=SAFETY &amp; SPOT IMPROVEMENTS (2)=PAVEMENT &amp; RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE



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HIGHLY DEVELOPED COUNTY (RED)

PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
8296	LEXINGTON BYPASS	US RT 378 I-20	R/W	4.900	1,000	STATE	4
166	I-20	REST AREAS (E & WBL) ON I-20 NEAR S-278	R/W	0.000	75	FEDERAL	1
12509	I-26	AT I-26 AND SC RT 302	PREL. ENGR.	0.000	40	FEDERAL	2
275	I-26	AT US RT 378 INTERCHANGE	R/W	0.000	1,645	FEDERAL	2
7593	I-26	FRONTAGE ROAD RELOCATION AT S-30 (LEAPHART ROAD)	R/W	1.670	750	FEDERAL	2
206	I-26	AT S-671 & S-1280 INTCHG (PINEY GROVE RD)	IMPROVE INTERCHG.	0.000	4,680	FEDERAL	2
8821	I-26	UP AT RD S-671 & S-1280 (PINEY GROVE RD)	OVERPASS	0.000	1,050	FEDERAL	2
8845	I-26	DR AT TRIB TO KINLEY CK (ON RD S-671)	BRIDGE	0.000	263	FEDERAL	2
12230	I-326	I-326 & 12TH ST EXTENSION INTERCHANGE	PAVE INTERCHG.	0.000	1,000	FEDERAL	2
499	I-326	UP UNDER 12TH ST EXTENSION	UNDERPASS	0.000	1,085	FEDERAL	2
12304	S-36	ST ANDREWS RD SIGNAL SYSTEM	PREL. ENGR.	0.000	5	FEDERAL	1
7616	S-70	INTER AT RD S-168 (EMANUEL CHURCH ROAD)	REALIGN INTERSEC.	0.630	200	FEDERAL	1
12010	S-103	DR OVER CONGAREE CREEK 0.5 MI W OF S CONGAREE	R/W	0.400	5	FEDERAL	3
9161	S-408	1500' E OF RD S-52 2000' W OF RD S-52	R/W	0.700	50	FEDERAL	1
12516	SC60	I-26 S-36 (ST ANDREWS RD)	PREL. ENGR.	1.000	40	FEDERAL	4
12903	SC302	I-26 S CONGAREE	PREL. ENGR.	4.990	160	FEDERAL	4
9039	SC478	I-26 SC RT 555	INITIAL SIGNING AND RESIGNING	4.550	250	FEDERAL	1
5663	US1	RD S-24 (GILBERT) DATESBURG-LEESVILLE SEC 2	R/W	6.500	263	FEDERAL	4
12156	US1	RD S-24 (GILBERT) DATESBURG-LEESVILLE SEC 2	R/W SHIM MATCH	6.500	88	STATE	4
12154	US1	NEAR LEXINGTON HIGH SCH RD S-24 (GILBERT) - SEC 1	R/W SHIM MATCH	5.500	75	STATE	4
12155	US1	NEAR LEXINGTON HIGH SCH RD S-24 (GILBERT) - SEC 1	R/W SHIM MATCH	5.500	1,250	STATE	4
5660	US1	NEAR LEXINGTON HIGH SCH RD S-24 (GILBERT) SEC-1	WIDEN 5 LANE	5.500	3,750	FEDERAL	4
12291	US21	KNOX ABBOTT DRIVE SIGNAL SYSTEM	PREL. ENGR.	0.000	5	FEDERAL	4
12290	US21	KNOX ABBOTT DRIVE SIGNAL SYSTEM	SIGNAL SYSTEM	0.000	80	FEDERAL	4
7646	US378	INTER AT SC 6 NEAR WALMART IN LEXINGTON	R/W	0.800	520	FEDERAL	4
7199	US378	RD S-24 SALUDA CO LINE	R/W	4.700	1,400	STATE	4

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

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\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
7812	GLENDALYN AVENUE	BR OVER NORFOLK SOUTHERN RAILWAY	REPLACE BR/APPROS.	0.200	260	FEDERAL	3
3247 I-26		SC 49 TO S-50 ALSO W OF US 176 TO W OF SC 11	PREL.ENGR.	18.300	270	FEDERAL	2
12479 I-26		NEAR SC RTE 296 NEAR US 176	PREL.ENGR.	8.350	1,540	FEDERAL	2
12375 I-26		RD S-50 NEAR SC RTE 296	PREL.ENGR.	11.800	270	FEDERAL	2
12374 I-26		RD S-50 NEAR SC RTE 296	RESURFACE	11.800	10,835	FEDERAL	2
9263 I-85		JUST WEST OF RD S-41 W OF FAIRVIEW CHURCH RD	PREL.ENGR. (CONSULT)	0.000	1,000	FEDERAL	2
7540 I-85		0.4 MI S OF SC RT 129 I-85 RELOC (C5)	GRADE DRAINAGE PAVE (CONSULT)	1.644	18,970	FEDERAL	4
404 I-85		NORTHERN END OF I-85 RELO 0.5 MI N OF S-57 (C4)	GRADE DRAINAGE PAVE (CONSULT)	2.520	16,972	FEDERAL	4
7543 I-85		OP (NO 21) OVER I-85 RELOCATION (C5)	OVERPASS (CONSULT)	0.000	882	FEDERAL	4
7538 I-85		OP (NO 22) OVER I-85 AND ROAD S-57 RELOC (C4)	OVERPASS (CONSULT)	0.000	1,005	FEDERAL	4
7539 I-85		OP (NO 23) OVER CHINCHFIELD RR (C4)	OVERPASS (CONSULT)	0.000	487	FEDERAL	4
11942 S-20		SOU RR XING 720 706K IN CAMPOBELLO	RR SIGNAL AND GATES	0.000	69	FEDERAL	1
8053 S-30		BR OVER SOU RAILWAY 1.5 MI SW OF COWPENS	R/W	0.400	25	FEDERAL	3
8052 S-30		BR OVER SOU RAILWAY 1.5 MI SW OF COWPENS	REPLACE BR/APPROS.	0.400	505	FEDERAL	3
2194 S-44		NORTH LIBERTY STREET S-757 (MARYLAND AVE)	R/W	1.500	225	FEDERAL	4
12781 S-57		I-85 RD S-659	PREL.	0.800	150	FEDERAL	4
8347 S-132		BR OVER BUCK CREEK 0.5 MI NW OF CHESNEE	R/W	0.120	5	FEDERAL	4
8346 S-132		BR OVER BUCK CREEK 0.5 MI NW OF CHESNEE	REPLACE BR/APPROS.	0.120	205	FEDERAL	4
11950 S-258		CSXT RR XING 634 146V AT WOODRUFF	RR SIGNAL AND GATES	0.000	79	FEDERAL	1
11946 S-442		CSXT RR XING 634 127K S OF WOODRUFF	RR SIGNAL AND GATES	0.000	79	FEDERAL	1
2840 S-525		SC 295 TO SC 56 (NOT PROGRAMMED)	PREL.ENGR. WIDEN	3.500	500	FEDERAL	4
6526 S-624		BR OVER SOU RAILWAY IN CITY OF SPARTANBURG	REPLACE BR/APPROS.	0.200	292	FEDERAL	3
11940 S-866		SOU RR XING 720 710A AT GRAMLING	RR SIGNAL AND GATES	0.000	69	FEDERAL	1
11944 S-893		CSXT RR XING 634 107E IN ENOREE	RR SIGNAL AND GATES	0.000	79	FEDERAL	1
11948 S-1382		CSXT RR XING 634 130V IN WOODRUFF	RR SIGNAL AND GATES	0.000	79	FEDERAL	1
8057 SC11		BR OVER N PACOLET RIVER	R/W	0.000	8	FEDERAL	4

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

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## MODERATELY DEVELOPED COUNTY (GREEN)

PIN	LOCAL NAME OR RD-KT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
12297		AIKEN SIGNAL SYSTEM	PREL.ENGR. (CONSULT)	0.000	75	FEDERAL	1
12481	CARLISLE TIRE & RUBBER CO	AT CARLISLE TIRE AND RUBBER CO (PROJ #1128)	IMPROVE ROADWAY	0.000	150	STATE	
11883		CAPITAL ACQUISITION FOR AIK AREA COUNCIL ON AGING	PUBLIC TRANS. FUNDS	0.000	6	STATE	
8647 S-779		NW OF RD S-104 E OF RD S-104	R/W	0.660	25	FEDERAL	1
8646 S-779		NW OF RD S-104 E OF RD S-104	IMPROVE ALIGN AND WIDEN	0.660	250	FEDERAL	1
7120 SC19		I-20 SC RT 118	R/W	4.400	1,000	STATE	4
7116 SC19		I-20 EDGEFIELD CO LINE	R/W	6.000	1,750	STATE	4
8080 SC118		SC 19 TO US 78/SC 118 US 601/301 IN BAMBERG	PREL.ENGR. (CONSULT)	47.640	262	STATE	4
7461 SC302		SC RT 19 (WHISKEY RD) SC RT 4/302 NE OF US 78	R/W	3.000	1,500	FEDERAL	4
575 US1		RD S-1904 I-20	MULTILANE	3.200	3,761	FEDERAL	4
12491 US25		SC RT 126 SC RT 230	PREL.ENGR.	2.800	75	FEDERAL	4
12495 US78		SC RTE 302 IN AIKEN BARNWELL CO LINE	R/W	15.440	2,496	STATE	4

COUNTY TOTAL - 11,350

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

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\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
8305 S-37		S-250 (GOOSE CREEK RD)	R/W	1.200	50	FEDERAL	4
11888 S-40		US 52 US 52/176 CSXT RR XING 634 986E	RR SIGNAL AND GATES	0.000	79	FEDERAL	1
8224 S-126		AT BETHERA RD S-127 EASTERLY	PAVE AND DRAINAGE	1.320	455	FEDERAL	
7824 US17		RD S-40 BR OVER SANTEE RIVER	PREL. ENGR.	0.400	1,260	FEDERAL	3
7823 US17		1.5 MI NE OF JAMESTOWN BR OVER SANTEE RIVER	R/W	0.400	10	FEDERAL	3
8313 US52		1.5 MI NE OF JAMESTOWN INTER OF US RT 52 AND	R/W	0.350	50	FEDERAL	1
3065 US52		CENTRAL AVENUE POWERHOUSE ROAD	R/W	8.900	3,510	FEDERAL	4
8311 US52		SC RT 375 (C4) INTER OF US RT 52 AND	IMPROVE INTERSEC.	0.350	75	FEDERAL	1
780 US52		CENTRAL AVENUE RD S-295	MULTILANE	2.100	2,268	FEDERAL	4
		POWERHOUSE ROAD (C1)					
COUNTY TOTAL -				7,757			
* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE							

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

COUNTY TOTAL - 25,988

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

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MODERATELY DEVELOPED COUNTY (GREEN)

PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
12600	REYNOLDS CON	US RT 221	PREL.ENGR.	1.400	200	FEDERAL	4
12612	S-58	SC RT 10					
		SC RT 72	PREL.ENGR.	3.100	150	FEDERAL	4
12608	S-99	US RT 25					
		US RT 221	PREL.ENGR.	1.500	165	FEDERAL	4
11896	S-112	SC RT 72 BY-PASS					
		CSXT RR XING 633 833X	RR SIGNAL AND	0.000	79	FEDERAL	1
		S OF BRADLEY	GATES				
11900	S-156	CSXT RR XING 633 855X	RR SIGNAL AND	0.000	79	FEDERAL	1
		AT PROMISED LAND	GATES				
8787	S-236	E OF US 25/178/221 BP	R/W	1.600	300	FEDERAL	4
		RD S-157					
11898	S-416	CSXT RR XING 633 840H	RR SIGNAL AND	0.000	79	FEDERAL	1
		AT BRADLEY	GATES				
7495	SC72 BP	CSXT RR XING 640 454P AT	RR SIGNAL	0.000	89	STATE	1
		SC 72 BP IN GREENWOOD					
7699	US25	SC RT 72 BYPASS	R/W	1.500	75	FEDERAL	4
		JUST N OF NORTHSIDE DRIVE					
12148	US25	SC RT 72 BYPASS	R/W SHIM MATCH	1.500	25	STATE	4
		JUST N OF NORTHSIDE DRIVE					
12149	US25	SC RT 72 BYPASS	WIDEN 5	1.500	188	STATE	4
		JUST N OF NORTHSIDE DRIVE	LANE SHIM MATCH				
12160	US25	RD S-40 (KIRKSEY DRIVE)	WIDEN 5	1.500	888	STATE	4
		RD S-432 (COURT AVENUE)	LANE SHIM MATCH				
7697	US25	SC RT 72 BYPASS	WIDEN 5	1.500	563	FEDERAL	4
		JUST N OF NORTHSIDE DRIVE	LANE				
5718	US25	US 25 BUS S/WARE SHOALS	MULTILANE	4.400	4,537	STATE	4
		US 25 BUS N/WARE SHOALS					
729	US25	RD S-40 (KIRKSEY DR)	WIDEN 5	1.200	2,663	FEDERAL	4
		RD S-432 (COURT AVENUE)	LANE				
7207	US25	BRIDGE OVER SALUDA RIVER	WIDEN	0.000	1,740	STATE	4
7140	US221	RD S-156	R/W	6.200	175	STATE	4
		MCCORMICK CO LINE					
7134	US221	US RT 25	MULTILANE	6.900	8,320	STATE	4
		RD S-156					
8376	US221	BR OVER SOUTHERN RAILWAY	REPLACE BRIDGE	0.000	380	STATE	4
8377	US221	TWIN BRS OVER HARD LABOR CREEK	TWIN BRIDGES	0.000	1,020	STATE	4

COUNTY TOTAL - 21,715

\* IMPROVEMENT TYPES: (1)=SAFETY &amp; SPOT IMPROVEMENTS (2)=PAVEMENT &amp; RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

10/17/91

MODERATELY DEVELOPED COUNTY (GREEN)

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PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
12118	CONWAY BY-PASS	US 501	PREL.ENGR. (CONSULT)	30.500	1,383	STATE	4
		US 17	SHIM MATCH				
8232	CONWAY BY-PASS	US 501	PREL.ENGR. (CONSULT)	30.500	3,429	FEDERAL	4
		US 17					
8233	CONWAY BY-PASS	US 501	PREL.ENGR. (CONSULT)	30.500	2,102	FEDERAL	4
		US 17					
12485	RON MCNAIR RD	END OF DIRT RD ACROSS FM INTER OF US 501/S-137	UPGRADE ROADWAY	0.400	56	STATE	
12487	CONWAY ST	US RT 501	UPGRADE ROADWAY	0.070	70	STATE	
		END (PROJECT #1123)					
9055	P-2602	US RT 17	R/W	1.000	100	FEDERAL	4
		US RT 501					
8885	S-15	1300' E OF RD S-556	R/W	0.500	5	FEDERAL	1
		1300' W OF RD S-556					
8884	S-15	1300' E OF RD S-556	IMPROVE INTERSEC.	0.500	129	FEDERAL	1
		1300' W OF RD S-556	AND TURN LANES				
8889	S-19	2500' N OF SC RT 905	R/W	0.500	7	FEDERAL	1
		SC RT 905					
8888	S-19	2500' N OF SC RT 905	RELOCATE INTERSEC.	0.500	200	FEDERAL	1
		SC RT 905	AND TURN LANES				
12640	S-51	RD S-155	PREL.ENGR.	1.800	150	FEDERAL	4
		US RT 17					
12648	S-70	RD S-155	PREL.ENGR.	0.720	100	FEDERAL	4
		US 17 BUS					
6003	S-196	NEAR 28TH AVE NORTH	WIDEN AND	1.100	448	FEDERAL	1
		37TH AVE IN MYRTLE BEACH	IMPROVE INTERSEC.				
12632	S-215	SEABOARD ST	PREL.ENGR.	1.600	150	FEDERAL	1
		US RT 17 BUS					
6009	S-215	INTER AT SEABOARD STREET	R/W	0.000	50	FEDERAL	1
6007	S-215	INTER AT SEABOARD STREET	IMPROVE INTERSEC.	0.000	266	FEDERAL	1
12636	S-469	S-559 (KING'S RD)	PREL.ENGR.	0.730	100	FEDERAL	4
		US RT 17					
2645	S-1240	US RT 17	WIDEN AND	2.000	3,000	FEDERAL	4
		SC RT 707	RESURFACE				
3164	SC90	INTER AT RD S-20	IMPROVE INTERSEC.	0.000	150	FEDERAL	1
8893	SC319	1500' S OF RD S-569	R/W	0.570	8	FEDERAL	1
		1500' N OF RD S-569					
8892	SC319	1500' S OF RD S-569	IMPROVE CURVE	0.570	220	FEDERAL	1
		1500' N OF RD S-569	AND TURN LANES				
12656	SC707	SC RT 544	PREL.ENGR.	2.300	250	FEDERAL	4
		US 1Y BP					
8333	SC707	1500' S OF BRIDGE TO A	R/W	0.500	50	FEDERAL	1
		POINT 1500' N OF FOLLY RD					
8332	SC707	1500' S OF BRIDGE TO A	REALIGN AND	0.500	440	FEDERAL	1
		POINT 1500' N OF FOLLY RD	TURN LANES				
12660	US17	RD S-1176	PREL.ENGR.	1.300	100	FEDERAL	4
		SC 9 (SEA MOUNTAIN RD)					
8868	US501	US 378	PREL.ENGR. (CONSULT)	12.000	600	FEDERAL	4
		US 17 BUSINESS					

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

MODERATELY DEVELOPED COUNTY (GREEN)

COUNTY TOTAL - 13,828

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE



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## MODERATELY DEVELOPED COUNTY (GREEN)

PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	CCST \$1000	FUND TYPE	IMPRV * TYPE
12664	CALHN ST EXT	SC RT 133 US 76/123	PREL.ENGR.	0.500	150	FEDERAL	4
9146	S-28	INTLK AT RD S-136	R/W	0.500	15	FEDERAL	1
2071	S-28	BR OVER GEORGES CREEK WEST OF GREENVILLE	R/W	0.000	40	FEDERAL	3
8824	S-37	BR OVER NORFOLK SOU RR 7.0 MI E OF EASLEY	R/W	0.120	5	FEDERAL	4
8823	S-37	BR OVER NORFOLK SOU RR 7.0 MI E OF EASLEY	REPLACE BR/APPROS.	0.120	465	FEDERAL	4
12672	S-320	SC RT 93 US RT 76	PREL.ENGR.	2.300	250	FEDERAL	4
12693	US123	SC RT 135 SC RT 93	PREL.ENGR.	2.200	300	FEDERAL	4

COUNTY TOTAL - 1,225

\* IMPROVEMENT TYPES: (1)=SAFETY &amp; SPOT IMPROVEMENTS (2)=PAVEMENT &amp; RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE



PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
12960		CONFIDENTIAL PROJECT	FUNDS	0.000	165	STATE	
12734 S-195		US RT 21	PREL.ENGR.	1.600	85	FEDERAL	4
9093 S-270		SC RT 161					
2574 S-491		INTERSECTION WITH ROAD S-674 AND APPROACHES	R/W	1.400	20	FEDERAL	1
8386 S-1442		AT S-196, TWIN LAKES CONNECTOR AND SC RT 274	R/W	0.300	145	FEDERAL	1
8385 S-1442		US 21 BUS (WHITE STREET) GRIER STREET	R/W	0.100	5	FEDERAL	4
12745 SC5		US 21 BUS (WHITE STREET) GRIER STREET	WIDEN 3 LANE	0.100	60	FEDERAL	1
1457 SC49		CHERRY RD	PREL.ENGR.	3.000	175	FEDERAL	4
12738 SC160 BP		S-807 (QUIET ACRES DR) NEAR CROWDERS CREEK BR	MULTILANE	3.800	5,000	FEDERAL	4
12741 SC160 BP		BUSTER BOYD DR (LK WYLIE) I-77	PREL.ENGR.	1.800	100	FEDERAL	4
7745 SC161		US 21 BUS					
7749 SC161		US 21 BUS	PREL.ENGR.	3.800	200	FEDERAL	4
1780 SC274		SC RT 160					
		DAVE LYLE EXTENSION	PREL.ENGR.	10.400	934	STATE	4
		SC RT 274					
		SC RT 274	PREL.ENGR.	6.900	923	STATE	4
		SC RT 5					
		N OF CHERRY RD (US 21 BS) R/W		3.000	250	FEDERAL	4
		SC RT 161 (CELANESE RD)					

COUNTY TOTAL - 8,062

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

D787216 RUN DATE  
10/16/91

PROPOSED OBLIGATIONS FOR Abbeville County  
Rural County (Yellow)

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PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
6546	ANDERSON BYPASS/CONNECTOR	SC 28 to SC 72 and BYPASS	PRELI.ENGR.FEAS.STDY	18.000	1,852	STATE	4

COUNTY TOTAL - 1,852

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

PTN	LOCAL NAME OR RD-KT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
7795		PUBLIC TRANS. ASSISTANCE	PUBLIC TRANS.	0.000	218	STATE	
11884 SC641		FOR ADM OF LOWCOUNTRY RTA	FUNDS				
		CSXT RR XING 634 813P	RR SIGNAL AND	0.000	99	FEDERAL	1
		IN SYCAMORE	GATES				
6503 US278		US 321 IN FAIRFAX	R/W	7.700	1,250	STATE	4
		HAMPTON CITY LIMITS					
COUNTY TOTAL -				1,567			

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

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RURAL COUNTY (YELLOW)

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PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
12511 US78		AIKEN CO LINE SC RTE 37 IN ELKO	R/W	5.890	971	STATE	4
COUNTY TOTAL -				971			
* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE							



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RURAL COUNTY (YELLOW)

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PIN	LOCAL NAME OR RD-KT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
12363 I-77		SC RT 200 SC RT 97	PREL-ENGR.	8.000	25	FEDERAL	2
8948 S-44		INTER AT SC 97 & S-44 EXTENDING 0.7 MI EAST	R/W	0.700	8	FEDERAL	1
8188 S-192		BR OVER CONRAD CREEK 5.4 MI NE OF CHESTER	R/W	0.500	8	FEDERAL	3
8187 S-192		BR OVER CONRAD CREEK 5.4 MI NE OF CHESTER	REPLACE BR/APPROS.	0.500	534	FEDERAL	3
11890 S-224		CSXT RR XING 638 956B AT SHLENEY ST	RR SIGNAL AND GATES	0.000	79	FEDERAL	1
7235 SC9		EAST OF RD S-656 US RT 21	R/W	6.600	200	STATE	4
7239 SC9		EAST OF SC RT 72 BYPASS WEST OF RD S-46	R/W	7.000	200	STATE	4

COUNTY TOTAL - 1,054

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE



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## RURAL COUNTY (YELLOW)

PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
12825	CHERAW TR RT	US 1/52	PREL. ENGR.	2.600	130	STATE	4
8192	S-35	SC RT 9 BR OVER LYNCHES RIVER	R/W	0.200	5	FEDERAL	3
8191	S-35	9 MI NW OF PAGELAND BR OVER LYNCHES RIVER	REPLACE BR/APPROS.	0.200	451	FEDERAL	3
12014	S-59	9 MI NW OF PAGELAND BR AT THOMPSON CREEK	R/W	0.230	5	FEDERAL	3
1655	SC151	2.5 MI N OF CHESTERFIELD SC RT 903	R/W	5.800	139	FEDERAL	4
12141	SC151	RD S-296 (SEC 4) SC RT 903	R/W SHIM MATCH	5.800	46	STATE	4
12143	SC151	RD S-296 (SEC 4) RD S-163	R/W SHIM MATCH	3.800	36	STATE	4
1657	SC151	SC RT 903 (SEC 5) RD S-163	R/W	3.800	109	FEDERAL	4
1658	SC151	SC RT 903 (SEC 5) S OF RD S-151	MULTILANE	4.600	2,850	FEDERAL	4
12146	SC151	S OF RD S-163 (SEC 6) S OF RD S-151	MULTILANE SHIM MATCH	4.600	950	STATE	4
12147	SC151	S OF RD S-163 (SEC 6) TWIN BRS OVER FORK CREEK	NEW TWIN BRIDGE SHIM MATCH	0.000	233	STATE	4
5810	SC151	(SEC 6) TWIN BRS OVER FORK CREEK	NEW TWIN BRIDGE	0.000	698	FEDERAL	4
COUNTY TOTAL -				5,652			
* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE							

PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
12286 I-95		SC RTE 527	PREL.ENGR.	99.000	20	FEDERAL	2
12360 I-95		JASPER COUNTY LINE ORANG/CLAR CO LINE (MP99)	PREL.ENGR.	15.000	270	FEDERAL	2
12277 I-95		US RT 301 (MP114)					
		US RTE 52	PREL.ENGR.	32.000	20	FEDERAL	2
9140 I-95		SC RTE 527					
		S OF US RT 301 (MP 114.2)	REHAB. CONCRETE	17.300	9,500	FEDERAL	2
		NEAR SC RT 527 (MP 131.5)	PAVEMENT				
7926 USS21		I-95 (CLAR CO)	PREL.ENGR.	55.600	647	STATE	4
		US 17A (GEORGETOWN CO)					

COUNTY TOTAL - 10,457

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
7082 S-26		BRICKYARD BRIDGE TO END PVMT NEAR BOAT LANDING	RAISE GRADE DRAINAGE PAVE	5.800	1,015	FEDERAL	2
8514 S-229		BR OVER IRELAND CREEK (AT US 15)	NEW BRIDGE	0.000	1,000	FEDERAL	3
9101 SC362		1250' S OF RD S-52 1250' N OF RD S-52	R/W	0.500	30	FEDERAL	1
3200 US15		INTER AT SC RT 64 AND SECTION OF RT OVERLAP	IMPROVE INTERSEC.	1.000	1,500	FEDERAL	1
8515 US15		BR OVER IRELAND CREEK	REPLACE BRIDGE	0.000	390	FEDERAL	3
7026 US17		ASHEPPOO RIVER SC 64 (JACKSONBORO ROAD)	WIDEN 4 LANE (CONSULT)	6.420	4,400	STATE	4
COUNTY TOTAL -				8.335			

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVLMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

\* IMPROVEMENT TYPES: (1)=SAFETY & SPLIT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

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RURAL COUNTY (YELLOW)

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PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
12267 I-95		NC STATE LINE US RTE 52	PREL.ENGR.	35.000	20	FEDERAL	2
12266 I-95		NC STATE LINE US RTE 52	RESIGNING	35.000	425	FEDERAL	2
1422 SC38		S OF I-95 (SEC 7) US RT 301/SC 38 INTERCHG	R/W	4.000	307	STATE	4
1424 SC38		RD S-54 S OF I-95 (SEC 6)	R/W	0.500	55	STATE	4
1425 SC38		RD S-54 DILL/MARL CO LINE (SEC 5)	WIDEN 4 LANE	4.000	2,580	STATE	4
COUNTY TOTAL -				3,387			
* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE							

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* IMPROVEMENT TYPES:	(1)=SAFETY & SPUT IMPROVEMENTS	(2)=PAVEMENT & RECONSTRUCTION	(3)=BRIDGE REPLACEMENT	(4)=SYSTEM UPGRADE
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RURAL COUNTY (YELLOW)

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PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
12362 I-77		SC RT 200	RESURFACE	8.000	3,400	FEDERAL	2
9069 SC200		SC RT 97 CENTER OF BEAVER DAM FORK R/W OR TO RD S-325		0.600	15	FEDERAL	1
COUNTY TOTAL -				3.415			
* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE							

RURAL COUNTY (YELLOW)

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE



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RURAL COUNTY (YELLOW)

PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
8257 I-95		IN JASPER CO FROM GA/SC LINE TO 1 MI N IN HAMPTON	RESIGNING	35.000	260	FEDERAL	1
11904 S-35		CSXT RR XING 634 864A S OF ESTILL	RR SIGNAL AND GATES	0.000	89	FEDERAL	1
11902 S-490		CSXT RR XING 634 856H AT ESTILL	RR SIGNAL AND GATES	0.000	89	FEDERAL	1
11908 S-527		CSXT RR XING 633 470G AT YEMASSEE	RR SIGNAL AND GATES	0.000	79	FEDERAL	1
11906 S-531		CSXT RR XING 634 865G S OF ESTILL	RR SIGNAL AND GATES	0.000	99	FEDERAL	1
12907 SC68		US RT 278 RD S-27	PREL.ENGR.	4.600	150	STATE	4
12910 SC68		RD S-27 I-95	PREL.ENGR.	9.050	350	STATE	4

COUNTY TOTAL - 1,116

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
12392 S-428		LOCATED ON UNIMPROVED RD	R/W	0.650	20	FEDERAL	4
		BTWN S-102 & S-13 OV I-95					
7804 S-428		LOCATED ON UNIMPROVED RD	CONSTRUCT NEW	0.650	450	FEDERAL	4
		BTWN S-102 & S-13 OV I-95	DR/APPRUS.				
12809 SC170		US RT 17,	PREL.ENGR.	5.000	210	STATE	4
		DEAUFORT CO LINE					
12813 US17 AL		GEORGIA STATE LINE	PREL.ENGR.	6.610	200	STATE	4
		US RT 17					
5901 US278 CO		OVERPASS OVER I-95	WIDEN OVERPASS	0.000	600	STATE	4

COUNTY TOTAL - 1,480

\* IMPROVEMENT TYPES: (1)=SAFETY &amp; SPOT IMPROVEMENTS (2)=PAVEMENT &amp; RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

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RURAL COUNTY (YELLOW)

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PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
9043 SC903		INTER WITH SC RT 522	R/W	1.200	10	FEDERAL	1
COUNTY TOTAL -				10			
* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE							

PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
7522 I-385		LAURENS CO LINE	PREL.ENGR. (CONSULT)	7.000	1,678	FEDERAL	2
7524 I-385		SOUTH OF SC RT 101 (SEC2)	PREL.ENGR. (CONSULT)	7.600	476	FEDERAL	2
7526 I-385		SOUTH OF SC RT 101	PREL.ENGR. (CONSULT)	10.000	1,374	FEDERAL	2
12391 I-385		SOUTH OF US RT 221 (SEC3)	PREL.ENGR. (CONSULT)	1.600	500	FEDERAL	2
12390 I-385		SOUTH OF US RT 221	R/W	1.600	4,000	FEDERAL	2
9132 I-385		EAST OF I-26/SC 56 (SEC4)	RESURFACE AND UPGRADE (CONSULT)	19.000	6,342	FEDERAL	2
8974 S-37		N OF US RT 221	RESURFACE	0.150	435	FEDERAL	3
11910 S-307		S OF US RT 221 (SEC 3A)	RR SIGNAL AND GATES	0.000	79	FEDERAL	1
7112 SC72		N OF US RT 221	R/W	7.500	150	STATE	4
7156 SC72		S OF US 221 (SEC 3A)	R/W	6.710	200	STATE	4
7142 SC72		SC RT 14 3 MI NW OF GRAY COURT TO I-26	MULTILANE (CONSULT)	3.030	2,300	STATE	4
9066 SC72		BR AT LITTLE RIVER	REPLACE OVERPASS	0.000	800	STATE	4
9130 SC418		3.0 MI SE OF LAURENS	R/W	0.700	5	FEDERAL	1
9129 SC418		CSXT RR XING 634 038Y	IMPROVE CURVE	0.700	75	FEDERAL	1
5717 US25		AT WALTERLOO	R/W	5.500	500	STATE	4
7608 US25		RD S-30 IN MOUNTVILLE	REPLACE UNDERPASS	0.000	645	STATE	4
7609 US25		JUST N SC 72/US 221 INTER	REPLACE UNDERPASS (CONSULT)	0.000	532	STATE	4
7610 US25		S OF SC 72/RD S-46	WIDEN OVERPASS	0.000	675	STATE	4
		RD S-30 IN MOUNTVILLE					
		I-26					
		RD P-3002/US 76 INTER					
		OVERPASS OVER I-26					
		BETHANY CIRCLE					
		.35 MI SE OF RD S-75					
		BETHANY CIRCLE					
		.35 MI SE OF RD S-75					
		US RT 25 BUS N/WARE SHOAL					
		JUST S OF US RT 76					
		UP AT US RT 252					
		UP AT RD S-228					
		UP AT RD S-47					

COUNTY TOTAL - 20,766

\* IMPROVEMENT TYPES: (1)=SAFETY &amp; SPOT IMPROVEMENTS (2)=PAVEMENT &amp; RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
12418 SC34		0.3 MI EAST AND WEST OF CREEK	PREL.ENGR.	0.600	50	FEDERAL	1
12419 SC34		0.3 MI EAST AND WEST OF CREEK	R/W	0.600	10	FEDERAL	1
COUNTY TOTAL -				60			
* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE							

PIB	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
11918 S-14		CSXT RR XING 633 793C IN PLUM BRANCH	RR SIGNAL AND GATES	0.000	79	FEDERAL	1
11926 S-35		CSXT RR XING 633 810K AT MCCORMICK	RR SIGNAL AND GATES	0.000	79	FEDERAL	1
11916 S-68		CSXT RR XING 633 789M S OF PLUM BRANCH	RR SIGNAL AND GATES	0.000	79	FEDERAL	1
11920 S-87		CSXT RR XING 633 796X H OF PLUM BRANCH	RR SIGNAL AND GATES	0.000	79	FEDERAL	1
11914 S-88		CSXT RR XING 633 766F AT CLARKS HILL	RR SIGNAL AND GATES	0.000	79	FEDERAL	1
11922 S-121		CSXT RR XING 633 806B IN MCCORMICK	RR SIGNAL AND GATES	0.000	89	FEDERAL	1
11924 S-131		CSXT RR XING 633 807H IN MCCORMICK	RR SIGNAL AND GATES	0.000	84	FEDERAL	1
11912 S-345		CSXT RR XING 633 765Y AT CLARKS HILL	RR SIGNAL AND GATES	0.000	79	FEDERAL	1
7740 03221		GREENWOOD COUNTY LINE SC RT 28	R/W	0.000	200	STATE	4

COUNTY TOTAL - 847

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
12435 S-22		1500' N OF S-539	PREL.ENGR.	0.750	20	FEDERAL	1
5796 SC38		1500' SE OF S-539 DILL/MARION CO LINE	R/W	4.000	200	STATE	4
12821 US76		US RT 501 BP (SEC 8) HURRY CQ LINE PRESENT 4 LANE	PREL.ENGR.	5.500	250	STATE	4
COUNTY TOTAL -				470			
* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE							

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE



PIN	LOCAL NAME OR RD-KT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
1437 SC39		BR OVER SALUDA RIVER AND SDU RR (SALUDA CO)	PREL. ENGR. (CONSULT)	0.000	121	FEDERAL	3
COUNTY TOTAL -				121			
* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE							

PIN	LOCAL NAME OR RD-ET	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
11930	0	SOU RR XING 717 20SC AT SENECA	RR SIGNAL AND GATES	0.000	79	FEDERAL	1
11928	0	SOU RR XING 717 194S NE OF SENECA	RR SIGNAL AND GATES	0.000	79	FEDERAL	1
11968	SC28	RANGER STATION NEAR STUMPHOUSE MTN	PREL. ENGR.	0.000	50	FEDERAL	
12120	SC130	RD S-57 NC STATE LINE	GUARDRAIL	3.000	200	FEDERAL	1
7966	US76	INTER W/ SC 28/US 76/123 BUSINESS IN SENECA	R/W	0.000	40	FEDERAL	4
7965	US76	INTER W/ SC 28/US 76/123 BUSINESS IN SENECA	WIDEN AND TURN LANES	0.000	400	FEDERAL	4
12048	US76	SENECA CLOSED LOOP SIGNAL SYSTEM	SIGNAL SYSTEM	0.000	130	FEDERAL	4
11962	US76	SOU RR XING NO 717 336F AT SENECA	SIGNAL RELOC. AND MODIF.	0.000	90	FEDERAL	4
11963	US76	SOU RR XING NO 717 337M AT SENECA	SIGNAL RELOC. AND MODIF.	0.000	80	FEDERAL	4
912	US123	RD S-70 (BIBB STREET) RD S-2 (MAIN STREET)	MULTILANE	1.000	800	FEDERAL	4

COUNTY TOTAL - 1,948

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

RURAL COUNTY (YELLOW)

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
12884 US378		SC 391(AT TRAFFIC CIRCLE)	PREL. ENGR.	13.980	1,000	STATE	4
7187 US378		SC 121 SC RT 391 LEXINGTON CO LINE	R/W	3.000	900	STATE	4
COUNTY TOTAL -				1,900			
* IMPROVEMENT TYPLS: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE							

PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
6831		PUBLIC TRANS. ASSISTANCE FOR WILLING TRANS SYSTEM	PUBLIC TRANS. FUNDS	0.000	129	STATE	
11952 S-160		CSXT RR XING 634 896F S OF HEMINGWAY	RR SIGNAL AND GATES	0.000	79	FEDERAL	1
11956 S-318		CSXT RR XING 634 889V N OF HEMINGWAY	RR SIGNAL AND GATES	0.000	79	FEDERAL	1
11958 S-541		CSXT RR XING 633 264U N OF KINGSTREE	RR SIGNAL AND GATES	0.000	89	FEDERAL	1
11954 SC261		CSXT RR XING 634 891W IN HEMINGWAY	RR SIGNAL AND GATES	0.000	99	FEDERAL	1
8831 SC527		BR OVER BROAD SWAMP IN KINGSTREE	R/W	0.100	5	FEDERAL	3
8835 SC527		BR OVER CLAPP SWAMP 0.5 MI NW OF KINGSTREE	R/W	0.100	5	FEDERAL	3
8830 SC527		BR OVER BROAD SWAMP IN KINGSTREE	REPLACE BR/APPROS.	0.100	522	FEDERAL	3
8834 SC527		BR OVER CLAPP SWAMP 0.5 MI NW OF KINGSTREE	REPLACE BR/APPROS.	0.100	310	FEDERAL	3

COUNTY TOTAL - 1,317

\* IMPROVEMENT TYPES: (1)=SAFETY &amp; SPOT IMPROVEMENTS (2)=PAVEMENT &amp; RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

PIN	LOCAL NAME OR RD-RT	TERMINI FROM TO	TYPE WORK	MILES	COST \$1000	FUND TYPE	IMPRV * TYPE
12762		VARIOUS STDW -RRP- PROJS	PREL.ENGR.	0.000	40	FEDERAL	1
12871		ON/OFF FA SYSTEM (FY '92)	STATEWIDE BRIDGE	0.000	480	FEDERAL	3
12352		FED AID SYSTEM (FY 92)	FEAS. STDY	0.000	1,053	FEDERAL	3
12353		STDW BRIDGE INSPECTION	BRIDGE INSPECTION	0.000	98	FEDERAL	3
12283		ON SYSTEM (FY '92)	BRIDGE INSPECTION	0.000	20	FEDERAL	1
8210		STATEWIDE INTERSTATE	PREL.ENGR.	0.000	2,231	FEDERAL	4
8809		PAVEMENT MARKING	VARIOUS PREL.ENGR.	0.000	350	FEDERAL	
8215		HIGHWAY PLANNING RESEARCH (FY 92)	MISC	0.000	80	FEDERAL	4
12387		STDW CRASH ATTENVATORS FOR FISCAL YEAR 1992	TRAINING FUNDS	0.000	60	STATE	4
12394	DDE SUPPORT SERVICES	TRANSPORTATION TECHNOLOGY TRANSFER SERVICE (FY 92)	MISC	0.000	186	STATE	4
8227		INFRASTRUCTURE OVERLAY MODEL	MISC	0.000	500	FEDERAL	4
12961		VARIOUS DISADVANTAGED BUSINESSES IN SC FOR 1992	VARIOUS PREL.ENGR.	0.000	26	FEDERAL	4
8221		METRO-PLANNING FUND (FY 92)	AUDIT	0.000	200	FEDERAL	1
12127		STATEWIDE INTERNAL AUDIT FUND FOR FY 1992	RR SIGNAL	0.000	200	FEDERAL	1
12279		VARIOUS STDW -RRS- ON/OFF FA SYSTEM (FY 92)	IMPROVE CURVE	0.000	500	FEDERAL	1
12280		INTENSIFIED DELINEATION ON VAR HORIZONTAL CURVES	PVMT.MRKS.	0.000	500	FEDERAL	1
12247		STATEWIDE INTERSTATE PAVEMENT MARKING	PVMT.MRKS.	0.000	101	FEDERAL	4
12248		STATEWIDE INTERSTATE PAVEMENT MARKING	VARIOUS PREL.ENGR.	0.000	219	FEDERAL	4
12249		SECONDARY PLANNING RESEARCH FUND (FY 92)	VARIOUS PREL.ENGR.	0.000	653	FEDERAL	4
8296		CONSOL.PRIMARY RESEARCH FUND (FY 92)	VARIOUS PREL.ENGR.	0.000	97	FEDERAL	4
		MINIMUM ALLOCATION RESEARCH FUND (FY 92)					
		TRANSPORTATION TECHNOLOGY TRANSFER SERVICE					
COUNTY TOTAL -				7,594			

\* IMPROVEMENT TYPES: (1)=SAFETY & SPOT IMPROVEMENTS (2)=PAVEMENT & RECONSTRUCTION (3)=BRIDGE REPLACEMENT (4)=SYSTEM UPGRADE

## GLOSSARY OF TERMS FOR PROPOSED OBLIGATIONS FOR FY 1991-92

**Pin** An "in house" project identification number set up at beginning of a project.

**Local Name or  
RD-RT**

Road or Route designations are as follows:

S - State Secondary Road  
SC - State Primary Route  
US - United State Route  
I - Interstate Route  
BP - By Pass  
CO - Connector  
C - County Road  
AL - Alternate Route  
P - Primary Route  
BUS - Business Route

If no road or route number is available a local name is printed in this area if available.

**Termini From  
and To**

This is the location of the proposed work.

**Type Work**

This is type of work that the Department plans to start work on during this time frame. Funds will be obligated to pay for the performance of this work. Some of the common work designation are as follows:

Prel. Engr. - Preliminary Engineering is the work to develop highway improvement plans.

R/W - Funds used to acquire rights of way.

Resurface, Multilane, Widen, Rehabilitate, etc. - Are all terms to describe road construction work. These are only a few examples of road construction projects.

New Bridge, Overpass, Underpass, BR/Appros - indicate some of the various types of bridge improvements.

There are other types of work (i.e. rest areas, frontage roads, signing) that are included. A complete list of work types is not included because it is several pages long.

**Miles** This is the length of the project in miles.

**Cost (\$1000)** Estimated total cost in thousands.

**Fund Type** Designates whether 100% state funds or Federal funds with appropriate state match are used to fund this phase of the project.

**Improvement Type** This is the improvement types as shown in the SHIP Program.

Four basic improvement types

1. Safety & spot improvements
2. Pavement & reconstruction
3. Bridge replacement
4. System upgrade

A blank indicates an obligation of funds on non typical type SHIP projects. (Ex. Public Transportation Projects)



#### PERSONAL HYGIENE - FEMALE OFFICERS 14B3

**FEMALE OFFICERS:** A female officer shall maintain a neat, natural, well groomed appearance. The length, bulk or appearance of natural hair will not be excessive, ragged, or unkept. Hair will be clean, neatly groomed and will not hang over the collar. Hair in front will be groomed so that it does not fall below the band of the properly worn uniform headgear. The hair may be worn slightly over the ears, but in no case will the bulk or the length of the hair interfere with the proper wearing of any authorized headgear. Ponytails or completely plaited hair is unacceptable. Buns and french braids will be permitted on top of the head in a neat and attractive manner, provided they do not interfere with the proper wearing of uniform headgear and do not hang over the collar. No ribbons or ornaments shall be worn in the hair except for neat inconspicuous bobby pins or conservative barrettes.

- a. Wigs and hair pieces may be worn to cover natural baldness or physical disfiguration, but must conform to the previously stated haircut criteria.
- b. Cosmetics, if worn, shall be subdued and blended to match the natural skin color. False eyelashes are prohibited.
- c. Fingernails shall be clean and trimmed. Nails shall not extend beyond tips of fingers. Fingernail polish, if worn, shall be clear.
- d. While on duty female officers are not permitted to wear jewelry that distracts from their appearance in uniform. Flashy, dangling necklaces, bracelets and other type jewelry which are a distraction from the uniform are not in keeping with the Patrol's policy on uniformity and with their position as elite law enforcement officers. Small chain necklaces may be worn provided they are not visible to the outside of the uniform. Female officers will wear only small stud type earrings of a design that cannot be grasped by an assailant.

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