BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 067-0106-0 **Cobb County** SUFF. RATING: 85.0

Location & Geography

* Structure I.D. No.: 067-0106-0
200 Bridge Information: 04

* 6A Feature Int.: ROTTENWOOD CREEK
* 6B Critical Bridge: 0
* 7A Route Number Carried: SR00407
* 7B Facility Carried: I-285
* 9 Location: 6.7 MI SE OF MARIETTA
2 DOT District: 7
207 Year Photo: 1997

* 91 Inspection Frequency: 24 Date: 08/01/1997
92A Fract Crit Insp Freq: 0 00 Date: 0000
92B Underwater Insp Freq: 0 00 Date: 0000
92C Other Spc. Insp Freq: 0 00 Date: 0000

* 4 Place Code: 00000

* 5 Inventory Route (O/U): 1
Type: 1
Designator: 1
Number: 00285
Direction: 0

* 16 Latitude: 33-53.5
* 17 Longitude: 84 -27.4

98 Border Bridge: 000 %Shared: 00
99 ID Number: 000000000000000

* 100 Defense Highway: 1
* 101 Parallel Structure: N
* 102 Direction of Traffic: 2
264 Road Inventory Mile Post: 006.49

* 208 Inspection Area: 09 Initials: BDH

* Location I.D. No: 067-00407D-020.41C
* XReferen I.D. No: 000-000000-000.000

* 104 Highway System: 1
* 26 Functional Classification: 11
* 204 Federal Route Type: I No: 285-1
* 110 Truck Route: 1
206 School Bus Route: 0
217 Benchmark Elevation: 0.00
218 Datum:
* 19 Bypass Length: 1
* 20 Toll: 3
* 21 Maintenance: 01
* 22 Owner: 01
* 31 Design Load: 6
37 Historical Significance: 5
205 Congressional District: 07
* 27 Year Constructed: 1978
106 Year Reconstructed: 1986
33 Bridge Median: 3
34 Skew: 00
35 Structure Flared: 1
38 Navigation Control: 0
213 Special Steel Design: 0
267 Type of Paint: 1

* 42 Type Service On: 1
Under: 5
214 Movable Bridge: 00
203 Type Bridge: A-O-M-O
259 Pile Encasement: 3
* 43 Structure Type Main: 4 02
45 No. Spans Main: 003
44 Structure Type Appr: 0 0
46 No. Spans Appr: 0000
226 Bridge Curve Horz: 0 Vert: 0
111 Pier Protection: 0
107 Deck Structure Type: 1

108 Wearing Surface Type: 1
Membrane: 0
Protection: 0

Signs & Attachments

223 Expansion Joint Type: 02
242 Deck Drains: 0

243 Parapet Location: 0
Height: 0
Width: 0

238 Curb: 0.0 0
239 Handrail: 9 9
* 240 Median Barrier Rail: 1

241 Bridge Median Height: 0
Width: 0

* 230 Guardrail Loc Dir Rear: 6
Fwrd: 6
Oppo Dir Rear: 6
Fwrd: 6

244 Approach Slab: 3
224 Retaining Wall: 7

233 Posted Speed Limit: 65
236 Warning Sign: 0
234 Delineator: 1
235 Hazard Boards: 0

237 Utilities Gas:
Water:
Electric: 23
Telephone: 32
Sewer:

247 Lighting Street: 0
Navigation: 0
Aerial: 0

* 248 County Continuity No: 00

BRIDGE INVENTORY DATA LISTING GEORGIA DEPARTMENT OF TRANSPORTATION

Structure ID: 067-0106-0 **Cobb County** SUFF. RATING: 85.0

Programming Data

201 Project No: IR-75-3 (143) CT.10
202 Plans Available: 1
249 Prop. Proj No:
250 Approval Status: 0 0
251 P.I. No: 000000
252 Contract Date: 0000
260 Seismic No: 00000
75 Type Work:
94 Bridge Imp. Cost: $ 0
95 Roadway Imp. Cost: $ 0
96 Total Imp. Cost: $ 0
76 Imp. Length: 000000
97 Imp. Year: 0000
114 Future ADT: 330600 Year: 2017

Hydraulic Data

215 Waterway Data
Highwater Elev: 0000.0 Year: 0000
Flood Elev: 0000.0 Freq: 00
Avg. Streambed Elev: 0000.0
Drainage Area: 00000
Area of Opening: 000000
113 Scour Critical: 5
216 Water Depth: 01.9 Br Height: 65.6
222 Slope Protection: 1
221 Spur Dikes Rear: 0 Fwrd: 0
219 Fender System: 0
220 Dolphin: 0
223 Culvert Cover: 000
Type:
No Barrels: 0
Width: 0.0
Height: 0.0
Length: 0
Apron: 0
* 265 U/W Insp. Area: 0 Diver: ZZZ

* Location I.D. No: 067-00407D-020.41C
* XReferen I.D. No: 000-000000-000.000

Measurements

* 29 ADT: 220400 Year: 1997
109 % Trucks: 12
* 28 Lanes On: 07 Under: 00
210 No. Tracks On: 00 Under: 00
* 48 Max. Span Length: 0116
* 49 Structure Length: 300
51 Br. Rdwy. Width: 141.4
52 Deck Width: 147.6
* 47 Tot. Horz. Cl: 87.6
50 Curb/Sdewlk Width: 0.0/0.0
32 Approach Rdwy Width: 133
* 229 Shlder Width:
Rear Lt: 6.5 Type: 3 Rt: 12.0
Fwrd Lt: 6.5 Type: 3 Rt: 24.0
Pvment Width:
Rear: 60.0 Type: 2
Fwrd: 24.0 Type: 2
Intersection Rear: 0 Fwrd: 0
36 Safety Features Br. Rail: 1
Transition: 2
App. G. Rail: 1
App. Rail End: 1
53 Minimum Cl. Over: 99' 99"
Under: N 00' 00"
* 228 Min. Vert. Cl
Act. Odm. Dir: 99' 99"
Oppo. Dir: 99' 99"
Posted Odm. Dir: 00' 00"
Oppo. Dir: 00' 00"
55 Lateral Undercl. Rt: N 99.9
56 Lateral Undercl. Lt: 0.0
* 10 Max Min Vert Cl: 99' 99" Dir: 0
39 Nav Vert Cl: 000 Horz: 0000
116 Nav Vert Cl Closed: 000
245 Deck Thickness Main: 7.5
Deck Thick Approach: 0.0
246 Overlay Thickness: 0.0
211 Tons Structural Steel: 0.0
212 Year Last Painted: Sup: 1978 Sub: 0000

Ratings

66 Inventory Type: 2 Rating: 36
64 Operating Type: 2 Rating: 51
231 Calculated Loads
H-Modified: 20 0
HS-Modified: 25 0
Type 3: 28 0
Type 3s2: 40 0
Timber: 36 0
Piggyback: 40 0
261 H Inventory Rating: 20
262 H Operating Rating: 28
67 Structural Evaluation: 6
58 Deck Condition: 7
59 Superstructure Condition: 6
* 227 Collision Damage: 0
60A Substructure Condition: 7
60B Scour Condition: 8
60C Underwater Condition: N
71 Waterway Adequacy: 9
61 Channel Protection Cond: 8
68 Deck Geometry: 9
69 UnderClr. Horz/Vert: N
72 Appr. Alignment: 8
62 Culvert: N

Posting Data

70 Bridge Posting Required: 5
41 Struct Open, Posted, Cl: A
* 103 Temporary Structure: 0

232 Posted Loads H-Modified: 00
HS-Modified: 00
Type 3: 00
Type 3S2: 00
Timber: 00
Piggyback: 00
253 Notification Date: 0000
253 Fed Notify Date: 0000 0

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

067-0106-0 INTERDEPARTMENT CORRESPONDENCE

FILE I-75-3 (84) Cobb County

OFFICE Materials & Research
Forest Park, Georgia

DATE February 18, 1981

FROM David A. Mitchell, Chief, Geotechnical Engineering Bureau

TO John T. Kratzer, State Bridge & Structural Design Engineer

SUBJECT Foundation Recommendation - Bridges 5-11

As requested, we have reviewed the substructure plans for the above listed sites. Our recommendation for this work is attached.

If any additional information is needed, please contact this office.

Melvin D. Collins
Engineering Design Unit

MDC:kj

Attachment

copy: Larry G. Adams

I-75-3 (84) COBB COUNTY
BRIDGES 5-11 (WIDENING)

1. Location - This project is located on the north side of Atlanta along the existing I-285 alignment near the Cobb and Fulton County line.

2. Geology - The project is in the Biotite Gneiss/Mica Schist/ Amphibolite Formation of Georgia's Piedmont Region.

3. Pile Loading - We recommend the following maximum pile load of steel "H" piles for your use:

SIZE	TONS
10BP42	55
12BP53	70
14BP73	90

4. Foundation Recommendations -

BRIDGE NO.	BENT NO.	TYPE OF FOUNDATION	ELEVATIONS MINIMUM TIP	ESTIMATED TIP
5	1	H Pile End Bent*	815	795-800
5	2	H Pile Footing*	800	790-800
5	3	H Pile Footing*	800	795-800
5	4	H Pile End Bent*	815	795-800
6	1	H Pile End Bent	820	800-810
6	2	Caisson - 50 KSF	5' Pent. into Rock	790-795
6	3	Caisson - 50 KSF	5' Pent. into Rock	800-805
6	4	H Pile End Bent	850	820-830

Geotechnical Lab should be contacted to inspect caisson prior to placing reinforcing steel.

7	1	H Pile End Bent	820	790-800
7	2	H Pile Footing	815	790-800
7	3	H Pile Footing	804	800-804
7	4	H Pile Footing	804	800-804
7	5	H Pile Footing	808	795-800
7	6	H Pile End Bent	810	790-800
8	1	H Pile End Bent	850	820-830
8	2	H Pile Footing	845	820-830
8	3	H Pile Footing	845	820-830
8	4	H Pile End Bent	845	820-830

BRIDGE NO.	BENT NO.	TYPE OF FOUNDATION	ELEVATIONS MINIMUM TIP	ESTIMATED TIP
9	1	H Pile End Bent	880	830-840
9	2	H Pile Footing	860	830-840
9	3	H Pile Footing	865	840-850
9	4	H Pile Footing	850	820-830
9	5	H Pile End Bent	855	840-850
10	1	H Pile End Bent*	870	840-850
10	2	H Pile Footing	855	830-840
10	3	H Pile Footing*	840	815-825
10	4	H Pile End Bent	840	815-825
11	1	H Pile End Bent	900	890-900
11	2	H Pile Footing*	895	880-890
11	3	H Pile Footing*	895	880-890
11	4	H Pile Footing*	895	880-890
11	5	H Pile End Bent	910	880-890

5. Tip Protection(*) - All piles at bent marked (*) should be protected by Pruyn Points No. 75750, or equal.

6. Corrosion - No problem.

7. Erosion - On all bridges with concrete slope paving the existing paving should be matched. On all creek bridges rip-rap should be as recommended by the hydraulic study.

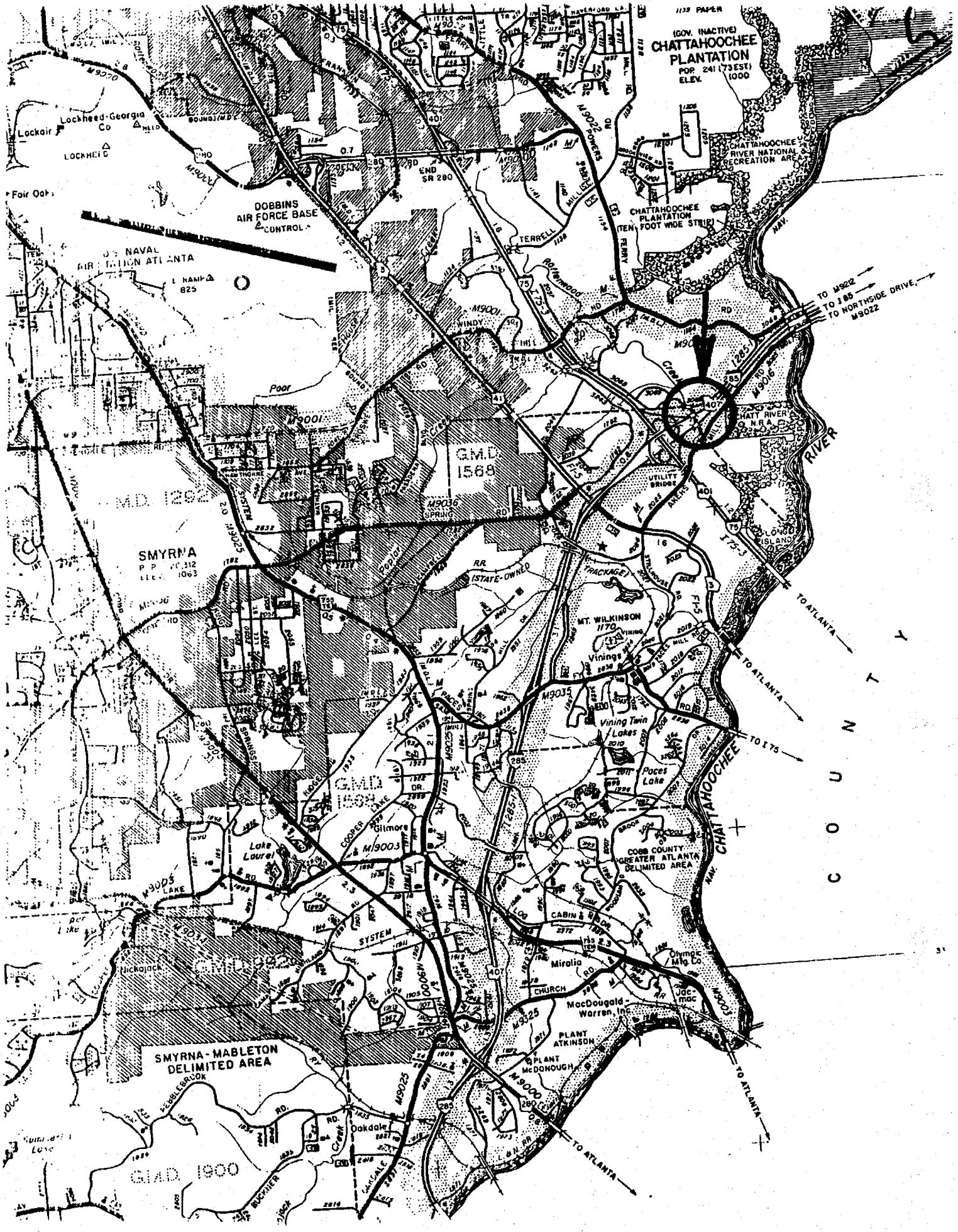
8. Waiting Periods - All waiting periods should be at least the minimum as shown below:

BRIDGE NO.	BENT NOS.	WAITING PERIOD
5	1-4	60 days
6	1-4	60 days
7	1-6	45 days
8	1-4	45 days
9	1,2,4 & 5	45 days
10	1-4	60 days
11	1,2,4 & 5	30 days

Melvin D. Collins

MDC:kj

February 18, 1981


CHATTAHOOCHEE PLANTATION
(GOV. INACTIVE)
CHATTAHOOCHEE RIVER NATIONAL RECREATION AREA
CHATTAHOOCHEE PLANTATION (TEN FOOT WIDE STRIP)
DOBBINS AIR FORCE BASE
CONTROL
Lockheed-Georgia Co
Lockair
LOCKHEED
Fair Oaks
SMYRNA
G.M.D. 1568
M.D. 1292
M.D. 1900
SMYRNA-MABLETON DELIMITED AREA
Lake Laurel
Gilmore
Nickajack
Oakdale
MT. WILKINSON
Vinings
Vining Twin Lakes
Paces Lake
COBB COUNTY GREATER ATLANTA DELIMITED AREA
Miralia
MacDougald-Warren, Inc.
PLANT ATKINSON
PLANT McDONOUGH
Olympic Mfg. Co.
Jac-mac
CHATTAHOOCHEE RIVER
LONG ISLAND
UTILITY BRIDGE
TO M9212
TO I 85
TO NORTHSIDE DRIVE, M9022
TO ATLANTA
TO I 75
COUNTY

067-0106-0

50

BRIDGE FOUNDATION INVESTIGATION
PEI-FI-285-1 (84) 88 STAGE 4 COBB COUNTY
BRIDGES 4 LT. & 4 RT.

1. Location - This double structure will carry the proposed additional through lanes of I-285 over Rottenwood Creek northwest of Atlanta. This location places the structure in the Granite Gneiss Formation of the Georgia Piedmont Province.

2. Subsurface Conditions - Refer to the attached boring logs and subsurface profile for existing foundation conditions at this site. Some pertinent information is:
   A) Generally, above elevation 810 lie loose to medium dense silts.
   B) Below elevation 810, soils densify to very dense weathered rock underlain by hard rock ranging from elevation 794 to 825.
   C) Some weathered rock boulders and/or layers were encountered at Bent 2.
   D) The ground water table was encountered near elevation 820 during this investigation.
   E) Very dense stream deposits underly Rottenwood Creek.

3. Foundation Recommendations - Pile end bents and intermediate bent pile footings will provide suitable foundations for this structure. Maximum design loads for corresponding pile sizes are:

   10 BP42 Piles = 55 tons
   12 BP53 Piles = 70 tons
   14 BP73 Piles = 90 tons

   Pile tips under the above loads should range in the following manner:

BENT	EST. TIP ELEV.	MIN. TIP ELEV.
1	805-810	820
2	805-810	812
3	800-810	815
4	820-825	830

   PDO should be Driving Resistance upon achieving the indicated minimum tip elevation.

4. Alternate Bent 4 Foundation Recommendations - A spread type footing seated in the existing fill can utilize 2.0 TSF as a maximum safe design pressure. A berm, 5 feet wide (minimum), should be provided in front of the footing. The excavation should be protected from surface run off.

5. Pile Tip Protection - We recommend the piling driven at Bent 2 have reinforced tips or driving points the same as or equal to Pruyn No. HP75750.

6. Danger From Fill Settlement - We recommend waiting 60 days from the completion of fill placement to commencement of pile driving at Bents 1 and 2.

Reported By:
Jim Stivender, CE II

JDS/mw

September 29, 1976

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND TEST, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT PEI-FI-285-1(84) 88 COUNTY Cobb DATE 9-14-76

LOCATION Br. No. 4 Lt.-Rt. I-285 % Rottenwood Cr. BORING NO. 1

BENT NO. 1 FOOTING ℄ GROUND ELEV. 835.57

PROPOSED FOOTING ELEV. PARTY CHIEF Bowling

LEV.	BORING LOG	SAMPLE	BLOW	UNIFIED	W	γ	Gs	C.	∅	EC	LL	PI	% 200	% CLAY
	Gr. El.													
	Loose Mitc. Micas Sandy Silt	1s	9											
830		2s	12											
WT 820	Medium Dense	3s	13											
	Mitc. Micas Sandy Silt	4s	23											
810	Very Dense Mitc. Micas Sandy Silt (Highly W.R.)	5s	52											
	Same (Weathered Rock)	6s	60=2"											
	Practical Refusal On Rock													

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND TEST, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT PEI-FI-285-1(84)68 COUNTY Cobb DATE 9-14-76

LOCATION Br. No. 4 Lt BORING NO. 2

BENT NO. 2 FOOTING 53' Lt. ℄ GROUND ELEV. 837.30

PROPOSED FOOTING ELEV. PARTY CHIEF Bowling

ELEV.	BORING LOG	SAMPLE	BLOW	UNIFIED	W	γ	Gs	C.	∅	BC	LL	PI	% 200	% CLAY
	Gr. El.													
	Medium Dense Red Clayey Sandy Silt													
830	V. Dse. Red Clyey. Sdy. Slt. W/ Rock Layers	1s	60											
	Medium Dense Micas Sandy Silt	2s	16											
NT	Very - Same (Hightly W.R)	3s	60=8'											
820	Dense Micas Sandy Silt (Hightly W/R)	4s	31											
		5s	60											
810	Very Dense	6s	60-											
	Same	7s	60=5'											
800	Practical Refusal On Rock													

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND TEST, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT PEI-FI-285-1(84)88 COUNTY Cobb DATE 9-14-76

LOCATION Br. No4 Lt. & Rt. BORING NO. 3

BENT NO. 2 FOOTING 9 GROUND ELEV. 830.46

PROPOSED FOOTING ELEV. PARTY CHIEF Bowling

LEV.	BORING LOG	SAM-PLE	BLOW	UNIFIED	W	γ	Gs	C.	ø	BC	LL	PI	% 200	% CLAY
830	Gr. El. 7													
	Medium Dense Mltc. Micas Sandy Silt	1s	27											
T 820	Dense Mltc. Micas Clyey Sandy Silt	2s	12											
	Medium Dense Mltc. Micas Sandy Silt	3s	36											
	Dense Same													
810	Very Dense Mltc. Micas Sandy Silt (Highly W/R)	4s	60=7											
	Same (Sl. W/R)	5s	60											
	Practical Refusal On Rock													

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND TEST, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT PEI-FI-285-1(84)68 COUNTY Cobb DATE 9-15-76

LOCATION Br. No. 4 Lt BORING NO. 3-A

BENT NO. 2 FOOTING 13' Lt. ℄ GROUND ELEV. 829.91

PROPOSED FOOTING ELEV. PARTY CHIEF Bowling

LEV.	BORING LOG	SAMPLE	BLOW	UNIFIED	W	γ	Gs	C.	ø	BC	LL	PI	% 200	% CLAY
830	Gr. El. 7													
	Loose Brown Clayey Sandy Silt													
	Loose Mitc. Micas	1s	9											
820		2s	7											
	Sandy Silt													
	V. Dse. Same (Hard R/L	3s	60											
	Medium Dense Mitc. Micas Sandy Silt	4s	20											
810	Very Dense Same (Hightly W/R.)	5s	60-10											
	Practical Refusal On Rock													

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND TEST, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT PEI-FI-285-1 (84) COUNTY Cobb DATE 9-14-76

LOCATION Br. No. 4 Rt. BORING NO. 5

BENT NO. 2 FOOTING 43' Rt ℄ GROUND ELEV. 826.00

PROPOSED FOOTING ELEV. PARTY CHIEF Bowling

ELEV.	BORING LOG	SAMPLE	BLOW	UNIFIED	W	γ	Gs	C.	ø	BC	LL	PI	% 200	% CLAY
830	Gr. El.													
	Medium Dense Mitc. Micas Sandy Silt	1s	12											
820	Dense Mitc. Micas Gravely Silt Sand	2s	33											
	Medium Dense Mitc. Micas Sandy Silt	3s	22											
810	Very Dense	4s	60=.7'											
	Same	5s	60											
800	(Weathered Rock)	6s	60=.1'											
	Practical Refusal On Rock													

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND TEST, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT PEI-FI-285-1 (84)88 COUNTY Cobb DATE 9-15-76

LOCATION Br. No. 4 Lt. BORING NO. 6

BENT NO. 3 FOOTING 45' Lt. ℄ Offset 20 Back GROUND ELEV. 825.34

PROPOSED FOOTING ELEV. PARTY CHIEF Bowling

LEV.	BORING LOG	SAMPLE	BLOW	UNIFIED	W	γ	Gs	C.	ø	BC	LL	PI	% 200	% CLAY
	Gr. El.													
	Loose Brown													
820	Silty Sand	1s	5											
	Dense Brown	2s	31											
	Gravely Silty Sand													
810	Very Dense Mltc.	3s	51											
	Micas Sandy Silt (Highly W/R)	4s	60=7"											
	Very Dense Mltc.													
800	Micas Sandy Silt	5s	60											
	(W/R W/Hard Layers)													
	Practical Refusal On Rock													

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND TEST, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT PEI-FI-265-1(84)88 COUNTY Cobb DATE 9-15-76

LOCATION Br. No. 4 Lt BORING NO. 7

BENT NO. 3 FOOTING 30' Lt. ℄ Offset 20' Back GROUND ELEV. 824.94

PROPOSED FOOTING ELEV. PARTY CHIEF Bowling

LEV.	BORING LOG	SAM-PLE	BLOW	UNIFIED	W	γ	Gs	C.	∅	BC	LL	PI	% 200	% CLAY
	Gr. El. 7													
	Very Loose Gray – Brown Silty Sand	1s	4											
		2s	51											
820	Very Dense Gray Gravelly Silty Sand													
810		3s	60=7'											
	Very Dense Mitc.													
		4s	60=6'											
800	Micas Sandy Silt	5s	60=7'											
		6s	60											
	Practical Refusal On Rock													

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND TEST, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT PEI-FI-285-1(64) 88 COUNTY Cobb DATE 9-15-76

LOCATION Br. No. 4 Lt. BORING NO. 8

BENT NO. 3 FOOTING 15' Lt. ℄ Offset 20' Back GROUND ELEV. 824.85

PROPOSED FOOTING ELEV. PARTY CHIEF Bowling

ELEV.	BORING LOG	SAMPLE	BLOW	UNIFIED	W	γ	Gs	C.	∅	BC	LL	PI	% 200	% CLAY
	Gr. El. 7													
	Very Loose													
820	Brown Silty Sand	1s	3											
	V.Dse.Brn.Grvly.Slty.Sd.	2s	60=7"											
	Very Dense Mltc													
810	Micas Sandy Silt (Highly W/R)	3s	60=7"											
	(Slt. Weathered Rock)													
800	Practical Refusal On Rock													

BOT 100

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND TEST, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT PEI -FI -285 -1 (84) 88 COUNTY Cobb DATE 9-15-76

LOCATION Br. No. 4 Rt. BORING NO. 9

BENT NO. 3 FOOTING 13' RT. ℄ Offset 20' Back GROUND ELEV. 826.44

PROPOSED FOOTING ELEV. PARTY CHIEF Bowling

LEV.	BORING LOG	SAM-PLE	BLOW	UNIFIED	W	γ	Gs	C.	∅	BC	LL	PI	% 200	% CLAY
	Gr. El. 7													
	Loose Brown													
820	Silty Sand	1s	5											
	Medium Dense Gray	2s	13											
	Silty Sand													
	Very Dense Mitc. Micas	3s	60=10"											
810	Sandy Silt													
	(Highly W./R. W/Med. Dse. L.)													
	Same (W/R)	4s	60=6"											
	Practical Refusal													
	On Rock													

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND TEST, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT PEI-FI-285-1 (84) 88 COUNTY Cobb DATE 9-15-76

LOCATION Br. No. 4 Rt. BORING NO. 10

BENT NO. 3 FOOTING 28' Rt. ℄ Offset 20' Back GROUND ELEV. 826.00

PROPOSED FOOTING ELEV. PARTY CHIEF Bowling

LEV.	BORING LOG	SAMPLE	BLOW	UNIFIED	W	γ	Gs	C.	∅	BC	LL	PI	% 200	% CLAY
	Gr. El. 7													
	Very Loose Brown													
820	Silty Sand	1s	4											
	V. Dse. Brn. Gvly. Silty Sd.	2s	60=.6'											
	Very Dense Brown Gravelly Sandy Silt (Highly W/ R)	3s	60=6'											
810	Very Dense Mltc. Micas Sandy Silt	4s	60=6'											
	Practica Refusal On Rock													
800														

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND TEST, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT PEI-FI-285-1 (84) 88 COUNTY Cobb DATE 9-15-76

LOCATION Br. No. 4 Rt. BORING NO. 11

BENT NO. 3 FOOTING 43' Rt. ℄ Offset 22' Back GROUND ELEV. 826.29

PROPOSED FOOTING ELEV. _____ PARTY CHIEF Bowling

LEV.	BORING LOG	SAMPLE	BLOW	UNIFIED	W	γ	Gs	C.	ø	BC	LL	PI	% 200	% CLAY
	Gr. El.													
	Loose Gray													
820		1s	9											
	Silty Sand													
	Loose Gray Clayey	2s	9											
	Sandy Silt													
	Medium Dense Gray	3s	13											
810	Gravelly Silty Sand													
	Fine Mic Micas Sdy Slt (Hly W/R)		60											
	Hard Rock													
	Practical Refusal													
800	On Rock													

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND TEST, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT PEI-FI-285-1(84)88 COUNTY Cobb DATE 9-14-76

LOCATION Br No 4 Lt. BORING NO. 12

BENT NO. 4 FOOTING 35' Lt. ℄ Offset 12' Fwd. GROUND ELEV. 883.84

PROPOSED FOOTING ELEV. PARTY CHIEF Bowling

LEV.	BORING LOG	SAM-PLE	BLOW	UNIFIED	W	γ	Gs	C.	ø	BC	LL	PI	% 200	% CLAY
	Gr. El.													
	Medium Dense Mltc. Micas Sandy Silt													
880	Loose Mltc. Micas Sandy Silt	1s	8											
		2s	18											
870	Medium Dense	3s	14											
		4s	12											
		5s	14											
		6s	11											
860	To Dense	7s	11											
850	Mltc. Micas													
840														
830	Sandy Silt													
	Practical Refusal													

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND TEST, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT PEI-FI-285-1(84)88 COUNTY Cobb DATE 9-16-76

LOCATION Br. No. 4 Lt. & Rt. BORING NO. 13

BENT NO. 4 FOOTING ℄ Offset 12' Fwd. GROUND ELEV. 883.85

PROPOSED FOOTING ELEV. PARTY CHIEF Bowling

ELEV.	BORING LOG	SAMPLE	BLOW	UNIFIED	W	γ	Gs	C.	ø	BC	LL	PI	% 200	% CLAY
	Gr El. 7													
880	Medium Dense													
	Mltc. Micas	1s	20											
870		2s	14											
		3s	20											
	Sandy Silt (W/ Gravel)	4s	21											
	Dense Mltc. Micas	5s	25											
860	Sandy Silt	6s	26											
		7s	22											
	Medium Dense													
		8s	24											
850														
	To Dense													
		9s	33											
840														
	Mltc. Micas													
		10s	30											
830														
	Clayey Sandy Silt													
	Practical Refusal On Rock													

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND TEST, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT PEI-FI-285-1(84) 88 COUNTY Cobb DATE 9-16-76

LOCATION Br. No. 4 Rt BORING NO. 14

BENT NO. 4 FOOTING 37' Rt. L Offset 12' Fwd. GROUND ELEV. 883.67

PROPOSED FOOTING ELEV. PARTY CHIEF Bowling

ELEV.	BORING LOG	SAMPLE	BLOW	UNIFIED	W	γ	Gs	C.	∅	BC	LL	PI	% 200	% CLAY
	Gr. El. 7													
880	Medium Dense Mitc Micas Sandy Silt	1s	23											
		2s	30											
870	Dse. Mitc. Micas Sdy. Silt													
	Medium Dense Mitc. Micas Sandy Silt	3s	14											
	Dense Mitc Micas Sandy Silt	4s	27											
		5s	34											
860		6s	37											
		7s	38											
	End Drilling													

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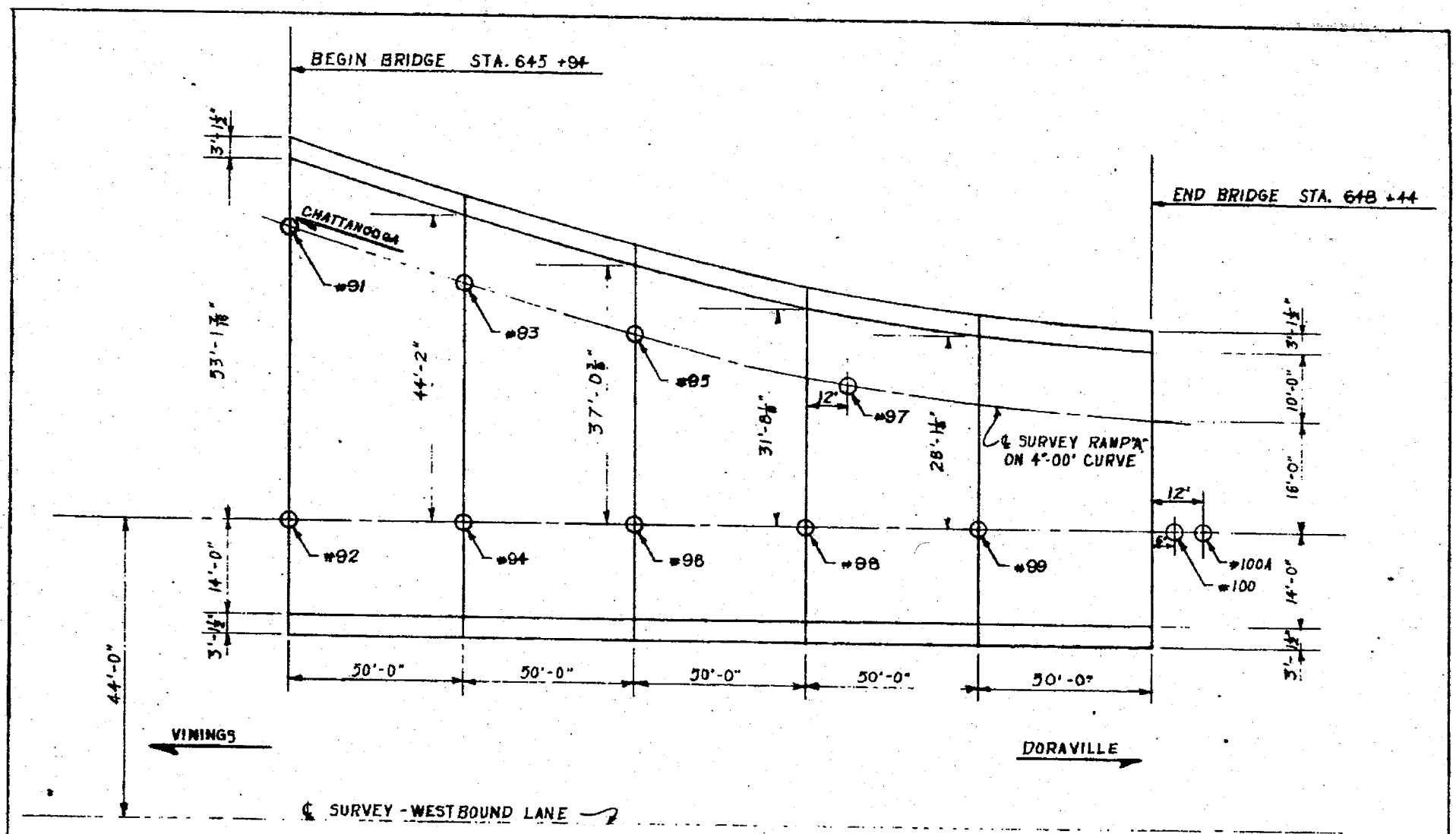


State Highway Department of Georgia Bridge Foundation Investigation	
DRW. L.L.S.	W.B. Lane Over Rottenwood Creek Cobb County I 285-1(16)88
CKD.	No Scale
APP.	

2-7-01

FORM H. D. 436

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

RERORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 645+94 McMitchen

LOCATION West Bound Lane over Rottenwood Cr., Bridge #7

BORING NO. 91 DATE

ELEV.	BORING LOG	SAM-PLE	BLOWS	W	γ	Gs	C	ϕ	q	BC	e	s		REMARKS
	Gr. El. 845.00													
	Red Clay & Saprolite													
840														
	Boulder													
	Yellow Clay, Sap. & Mica. Soft Drilling													Note: 1 Layers of Soft Rock. (Hard)
830	(Saturated) Brown Clay Sap. & Mica Soft Drilling													
	Grey Sap, Clay & Mica Soft Drilling													
820														
	See Note 1													
	Grey Soupy Sap, Clay, & Mica W/ Layers of Soft Rock. Hard Drilling													
810	Layers of Soft Rock Very Hard Drilling													
800	Hard Rock Very Hard Drilling													
	Layers of Soft Rock Very Hard Drilling.													
790														
	Stopped Drilling													
780	At 57'-Soft Rock													

FORM H. D. 436

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

REPORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 645+94 McMitchen

LOCATION West Bound Lane over Rottenwood Cr. Bridge #7

BORING NO. 92 DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	Ø	q	BC	e	S		REMARKS
	Gr. El. 843.40													
840	Red Clay and Saprolite													
	Boulder													
830	Reddish Clay & Saprolite W/ Mica. Soft Drilling													
	(wet material) Brown Clay, Sap. & Mica													
820	Reddish Clay, Sap. & Mica Soft. Drilling													
	Grey Soupy Sap. Clay & Mica Soft Drilling													
810	Layers of Soft Rock. Very Hard Drilling													
	Refusal-Rock at 38'													
800														

FORM H. D. 436
D.

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

REPORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 645+94 McMitchen

LOCATION West Bound Lane over Rottenwood Creek

BORING NO. 93 DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	ø	q	BC	e	S		REMARKS
	Gr. El. 838.2													
	Brown Slightly Sandy Clay													
		1-U		15.6	134.4	2.97	2.2	18	24	80	.590	78.5		Note: 1 Tan & Black Decomp. Granite W/ Iron Oxide
830	See Note 1	1-S	30											
	Grey Decomp. Granite Sap. See note 2	2-U		24.4	116.8	2.84	σ_1 = 8.7 KSF		σ_3 = 1.0 KSF		.866	80.0		Note: 2 Grey Decomp. Granite Sap.
		2-S	37											
	Grey Decomp. Granite	3-U		31.1	118.5	2.77	σ_1 = 2.8 KSF		σ_3 = 1.0 KSF		.915	94.0		Note: 3 Moist Grey Decomp. Granite Sap.
	See Note 3	3-S	20											
820	Grey Decomp. Granite Sap. W/ Mica	4-U		16.4	138.9	2.71					.420	100		Note: 4 Saturated Grey Granite Sap. W/ Mica Pushed 12"
	See Note 4	4-S	20											
	Grey Granite Saprolite													
810														
	Very Hard Drilling Soft Rock													
	Hard Rock Drilling Hard													
800	Refusal at 38'													

FORM H.D. 436.

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

REPORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY: Cobb

STATION NO. 645+94 McMitchen

LOCATION West Bound Lane over Rottenwood Creek

BORING NO. 94 DATE:

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	ϕ	q	BC	e	s		REMARKS
	Gr. El. 836.5													Ft. El. 833.00
	Red Clay & Sap.													
	Boulder													
830	Brown Sap W/ Clay													
	Brown & Grey Clay Sap. & Mica Soft Drilling													
820	Brown Clay & Sap. High in Mica Wet Material Very Soft													
	Brown Soupy Sap. Clay & Mica Soft Drilling													
810	Layers of Soft Rock. Very Hard Drilling													
	Refusal at 39' Rock													
800														
790														

FORM H. D. 436.

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

REPORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 645+94 McMitchen

LOCATION West Bound Lane over Rottenwood Creek

BORING NO. 95 DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	ø	q	BC	e	s		REMARKS
														Ft. El. 813.00
	Gr. El. 832.2													
830	Red Clay & Sap. Boulder													
	Red Clay & Sap.													
	Brown Clay & Sap. Soft Drilling													
820	Slightly Saturated Grey Clay Sap. & Mica. Soft Drilling.													
	Grey Soupy Sap. Clay & Mica													
810	Layers of Soft Rock Very Hard Drilling													
	Refusal at 28' Rock.													
800														

FORM C.P.O.436-1

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

BRIDGE

REPORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 645+94 MCMitchen

LOCATION West Bound Lane over Rottenwood Creek

BORING NO. 96 DATE

ELEV.	BORING LOG	SAM-PLE	BLOWS	W	γ	Gs	C	Ø	q	BC	e	s		REMARKS
	Gr. El. 831.80													Ft. El. 813.00
830	Red Clay & Saprolite													
	Boulder													
820	Yellow Clay & Sap Slightly Sat.													
	Grey Clay, Sap. Soft Drilling Slightly Saturated to Wet													
810	Layers of Soft Rock Very Hard Drilling													
	Refusal at 23' Rock													
800														

FORM H. D. 436

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

REROART OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 645+94 McMitchen

LOCATION West Bound Lane over Rottenwood Creek

BORING NO. 97 DATE

ELEV.	BORING LOG	SAM-PLE	BLOWS	W	γ	Gs	C	ϕ	q	BC	e	S		REMARKS
830	Gr. El. 828.70 Brown Silty Sand & Mica													Ft. El. 813.00 Water Level 11.2'
820	See Note													Note: Brown Course Sand & Clay (Wet)
	Boulder													
810	Brown Sandy Sap. High in Mica Soft Drilling													Note: Brown Sap. & Mica Layers of Soft Rock
	Soft Rock Very Hard Drilling													
800	See Note Refusal at 25'													

FORM H. D. 435 - 4

STATE HIGHWAY DEPARTMENT OF GEORGIA
DIVISION OF TESTS AND INVESTIGATIONS
ATLANTA, GEORGIA

REPORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 645+94 McMitchen

LOCATION West Bound Lane over Rottedwood Creek

BORING NO. 98 DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	Ø	q	BC	e	s		REMARKS
830	Gr. El. 828.6 Brown Silty Sand & Mica													Ft. El.-813.00 Hole Caved at 8.3' No Water Level
820	Tan Course Sand & Sap. (Wet) Boulder Brown Sandy Clay Sap. & Mica Soft Drilling													
810	Brown Sap. High in Mica Slightly Hard Drilling													
800	Layers of Rock W/ Sap. & Mica Very Hard Drilling Refusal at 27' Rock													

FORM H.D. 436

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

REPORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. ~~[illegible]~~ 648+44 Mc.

LOCATION West Bound Lane over Nottenwood Creek

BORING NO. 99 DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	Ø	q	BC	e	s		REMARKS
	Gr. El. 825.2													Ft. El. 820.00
	Brown Silty Sand & Gravel													Water Level 5'
822		1-U		12.55	130.8	2.73	NO	TEST					NOLL	Note:
	Medium Sand W/ Decomp. Granite, Quartz, & Feldspar	1-S	36											Pushed 12" Grey Sap. & Decomp. Granite
		2-U		10.48	116.5	2.65	NO	TEST					NOLL	
	See Note	2-S	27											
810	Decomp. Granite W/ Saprolite													
	Soft Rock Hard Drilling													
802	Soft Rock Very Hard Drilling													
	Refusal at 29' Rock													
770														

FORM H. D. 43C

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

REPORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 648+44 Mc.

LOCATION West Bound Lane Rottenwood Creek

BORING NO. 100 DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	Ø	q	BC	e	s		REMARKS
830	Gr. El. 829.00 Brown Silty Sand.													Water Elev. 9'
		1-S	8											
820	Brown Medium Sand	2-S	9											
	Wet Material	3-S	19											
810	Decomp. Granite W/ Mica	4-S	34											
	Decomp. Granite W/ Part. of Quartz & Silty Sap.													
800	Hole Caved 6' Hard Drilling Layers of Soft Rock													
790	Refusal at 38' Rock													

FORM H. D. 436

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

REPORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 648+44 Mc.

LOCATION Bridge over West Bound Lane Rottenwood Creek

BORING NO. 100-A DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	ø	q	BC-	e	s		REMARKS
830	Gr. El. 829.00													
	Yellow Silty Sand	1-U		7.93	111.7	2.68	NO	TEST			.7206	38.42	NULL	Note 1 Yellow & Brown Silty Sand & Mica
	Brown Silty Sand	1-S	8											
		2-U		22.55	126.7	2.72	σ_1=9.1	σ_3=1			.7178	84.75	NULL	
820	See Note 1	2-S	30											
	Sand Sap. & Quartz Boulder													
	Soft Rock Very Hard Drilling													
	Decom. Granite & Sap	3-U		13.75	131.9	2.65	σ_1=6.6	σ_3=3					NULL	
810	Same as Above	3-S	17											
	Decomp. Granite Silty Sap. & Mica													
	Soft Rock Hard Drilling													
800														
790														
	Refusal at 40' Rock													

FORM H. D. 68

STATE HIGHWAY DEPARTMENT OF GEORGIA

#5

INTERDEPARTMENT CORRESPONDENCE

FILE I-285-1 (16) 88 Fulton County (Const.)
I-407-1 (4) Fulton County (P.E.)

OFFICE Atlanta, Georgia

DATE January 30, 1961

FROM W. F. Abercrombie, Engineer of Materials and Tests

TO C. A. Marmelstein, State Highway Bridge Engineer

SUBJECT: Bridge Foundations
I-285-1 (16) Fulton County
East Bound Lane over Rottenwood Creek
Station 646+16

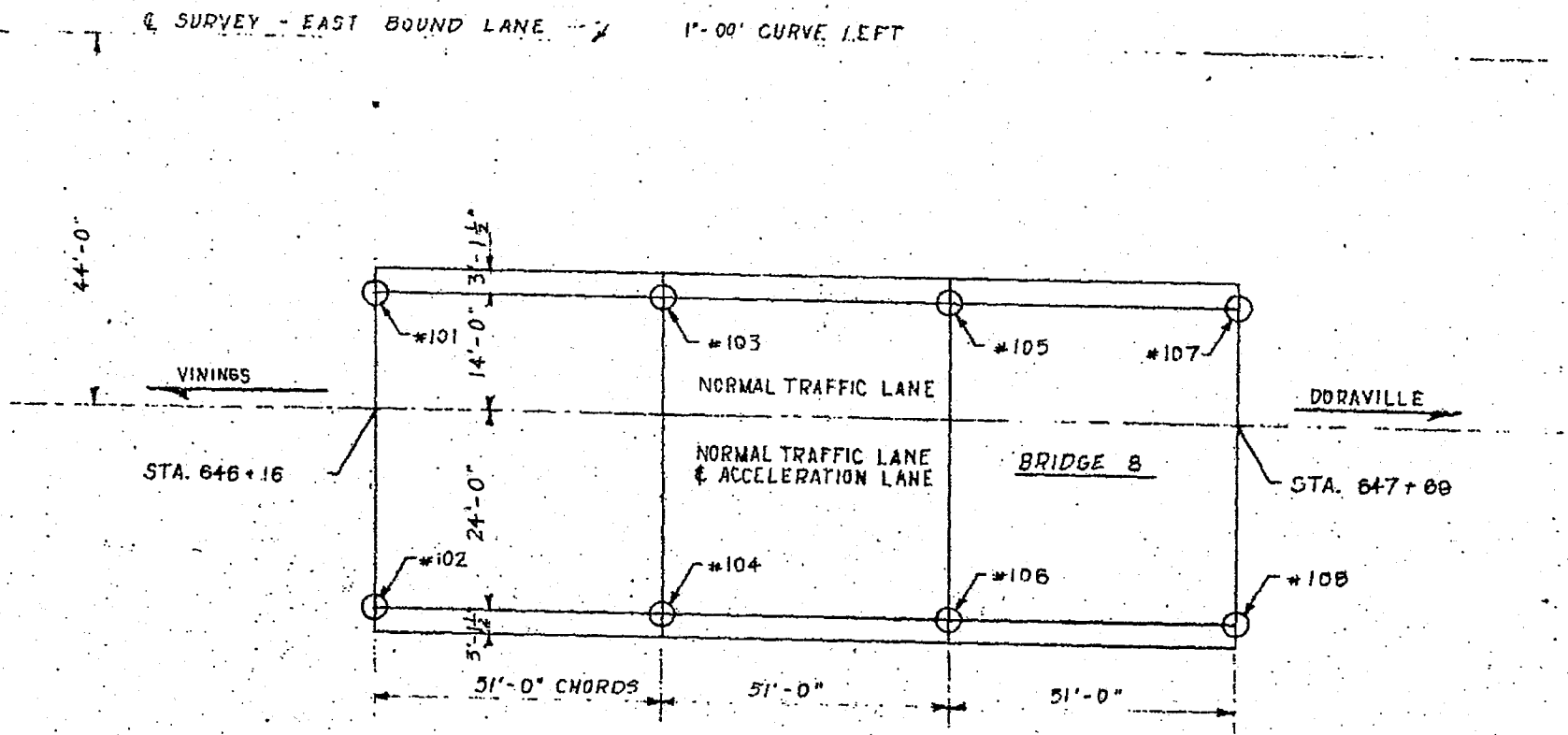
Boring logs for this structure are attached. Since rock is so near the footings, no samples were taken.

Short piles with end bearing on rock appear to be the best foundation plan for this structure. If piles are driven to rock, here, then no interval between grading and bridge construction will be necessary.

Yours very truly,

W. F. Abercrombie
Engineer of Materials and Tests

WFA:TDM:rb



State Highway Department of Georgia Bridge Foundation Investigation	
DRW. L.L.S.	East Bound Lane Over Rottenwood Creek Cobb County I 285-1(16)88
CKD.	
APP.	No Scale

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FORM H. D. 433

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

REPORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 464+16

LOCATION East Bound Lane over Rottenwood Creek

BORING NO. 101 DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	ϕ	q	BC	e	s		REMARKS
	Gr. El. 824.2±													
	Red Clay & Sap.													
820	Brown Sandy Clay & Sap. Med. Drill													
	Boulder													
	Brown Soupy Sap. & Mica Hard Drilling													
810	Same as Above Layers of Soft Rock W/ Brown Soupy Sap. & Mica Hard Drilling													
	Hard Rock, Very Hard Drilling													
	Refusal at 28' Rock													
800														

FORM H. D. 435

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

REPORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 645 + 16 McMichen

LOCATION East Bound Lane- Rottenwood Creek

BORING NO. 102 DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	ϕ	Q	BC	e	S		REMARKS
	Ground Elev.													
	Red Clay and Saprolite													
	Boulder													
	Brown Sandy Clay, Saprolite and Mica (wet) Soft Drilling													
	Reddish Sandy Clay Spprolite and Mica with layers of soft rock													
	Soft Rock Hard Drilling													
	Refusal-Rock													

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

REPORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 646 + 16 McMidhen

LOCATION East Bound Lane-Rottenwood Creek

BORING NO. 103 DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	ø	q	BC	e	s		REMARKS
	Ground Elev.													
	Brown Silty Sand													
680														
	Brown Sandy Clay and Saprolite													
	Br. Sandy Clay, Sap. Soft Rock, Hard Drilling - Brown Soupy Saprolite and Mica	*												Note: Soft Drilling.
640	Layers of Soft Rock*													*note: Very hard drilling.
	Refusal-Rock													
590														
530														

FORM H. D. 435

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

REPORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 646+16

LOCATION East Bound Lane over Rottenwood Creek

BORING NO. 104 DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	ø	q	BC	e	S		REMARKS
	Gr. El. 825.23													
	Brown Sandy Clay & Mica													
	Gray Sandy Clay Sep. & Soft Drill													NOte: Brown Sandy Clay, Sep. & Mica Soft Drilling
	Boulder													
	See Note Layers of Soft Rock Very Hard Drilling													
	Brown Sandy Sep. & Mica W/ Layers of Soft Rock Hard Drilling													
	Soft Rock Hard Drilling													
	Refusal at 30' Rock													

FORM H. D. 433

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

REPORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

STATION NO. 647 + 69 McMichen

LOCATION East Bound Lane - Rottenwood Creek

BORING NO. 105 DATE

ELEV.	BORING LOG	SAM-PLE	BLOWS	W	γ	Gs	C	ø	q	BC	e	s		REMARKS
	Ground Elev.													
	Brown Silty Sand													
	Gray Sandy Clay Soft Drilling													
	Boulder													
	Brown Soupy Saprolite, High in Mica. Soft Drilling(wet)													
	Boulder													
	Brown Soupy Sap. w/ Micahard drilling*													Note: Layers of soft rock.
	Refusal-Rock													

FORM H. D. 435

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA.

REPORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

LOCATION NO. 463+69

LOCATION East Bound Lane over Rottedwood Creek

BORING NO. 106 DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	ø	q	BC	e	s		REMARKS
	Gr. El. 820.22													
	Brown Silty Sand													
	Grey Soupy Sandy Clay & Sap. Wet Material													
	Boulder & Soft Rock V. Hard Drill See Note													Note: Brown Soupy Sap & Mica W/ Soft Rock
	Refusal at 14' - Rock													

FORM H. D. 435

STATE HIGHWAY DEPARTMENT OF GEORGIA

DIVISION OF TESTS AND INVESTIGATIONS

ATLANTA, GEORGIA

REPORT OF BRIDGE SOUNDING INVESTIGATION

PROJECT NO. I-285-1(16)88 COUNTY Cobb

LOCATION NO. 467+69

LOCATION East Bound Lane over Rottenwood Creek

BORING NO. 107 DATE

ELEV.	BORING LOG	SAMPLE	BLOWS	W	γ	Gs	C	ø	q	BC	e	S		REMARKS
	Gr. El. 825.73													WATER LEVEL 6.6'
	Red Silty Sand													
	Brown Course Sand & Mica													
820														
	Boulder													
	Grey Sandy Clay & Mica (wet)													
	Brown Soupy Sap. High in Mica Soft Drilling													
810	Layers of Soft Rock, Brown Soupy Sap. & Mica Hard Drilling													
	Soft Rock Hard Drilling													
800	Refusal at 28' Rock													
790														

DAM

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE PEI-FI-285-1 (84) Stage 4
Cobb County

OFFICE Materials & Research
Forest Park, Georgia

DATE November 16, 1976

FROM David A. Mitchell, Chief, Geotechnical Engineering Bureau

TO John T. Kratzer, State Bridge & Structural Design Engineer

SUBJECT Soil Parameters for Drilled Shaft Design
I-285 Over Rottenwood Creek
Bridges 4 Lt. and 4 Rt.

As requested, we have reviewed our bridge foundation investigation at the above site with regard to design soil parameters for drilled shaft foundations. As a result, for preliminary design purposes only, we recommend consideration of the attached strength parameters. Upon determination of final shaft locations and tip elevations, we request notification in order to most accurately evaluate foundation conditions.

If any additional information or assistance is needed, please notify us.

Jim Stivender

Jim Stivender
Soil Engineering Branch

JDS/mw

Attachment

SUBSURFACE STRENGTH HORIZON							
BENT	LAYER	LAYER THICKNESS (FEET)	SOIL UNIT WEIGHT γ (PCF)	WATER UNIT WEIGHT γ_w (PCF)	ANGLE OF INTERNAL FRICTION ϕ (DEGREES)	COHESION c (PSF)	BEARING CAPACITY Qo (KSF)
1	A	10	0		0	0	0
	B1	38	100		20	250	3
	B2	20	100	62.4	20	250	1.5
	C	5	120	62.4	32	1000	30
	D	∞	150		45	4500	75
2	A	17	0		0	0	0
	B	8	100	62.4	20	250	1.5
	C	10	120	62.4	32	1000	30
	D	∞	150		45	4500	75
3	A	13	0		0	0	0
	B	5	100	62.4	20	250	1.5
	C	10	120	62.4	32	1000	30
	D	∞	150		45	4500	75
4	A	10	0		0	0	0
	B	50	100		20	250	1.5
	C	5	120		32	1000	30
	D	∞	150		45	4500	75

NOTE: Neutral stresses should be considered in those layers where a water unit weight is designated.
Layer "A" represents zone above an assummed point of fixity.

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BRIDGE
PEI-FI-285-I (8
Br. No. 4 Lt.
3 FOOTI
FOOTING ELEV.

DOT 490 DEPARTMI
OFFICE OF MAT
SOILS E
BRIDGE S
PROJECT PEI-FI-285-I (84
LOCATION Br. No. 4 Lt.
BENT NO. 3 FOOTIN
PROPOSED FOOTING ELEV.

DOT 490 DEPARTMI
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PROJECT PEI-FI-285-I(84)
LOCATION Br. No. 4 Lt.
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PROPOSED FOOTING ELEV.

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LOCATION Br. No. 4 Rt.
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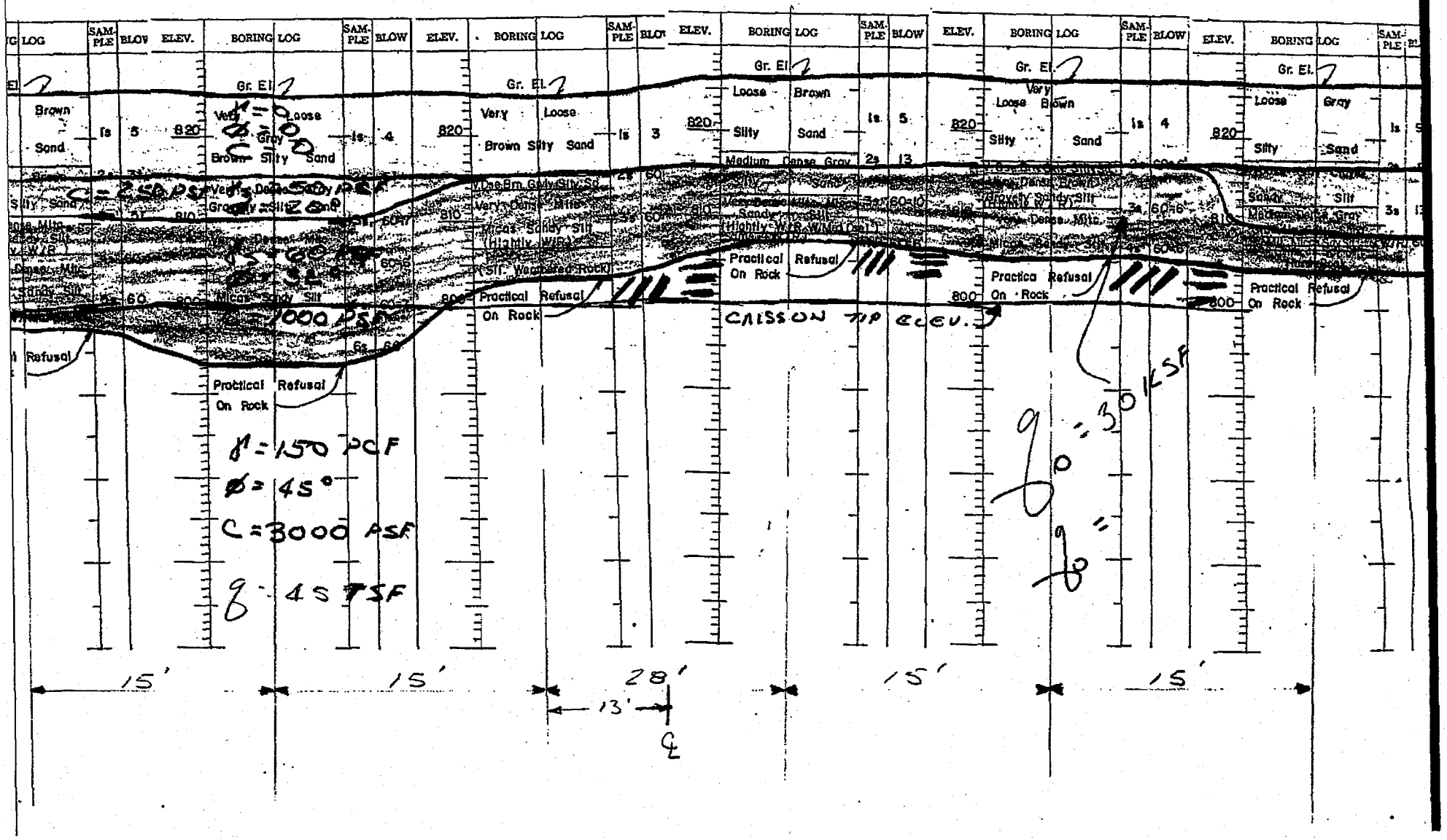

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Reference: 067-0106-0/067-0106-0 BFI-01-041

DOT 490

DEPARTMENT OF TRANSPORTATION

OFFICE OF MATERIALS AND TEST, FOREST PARK, GEORGIA
SOILS ENGINEERING AND GEOLOGY BRANCH

BRIDGE SUBSURFACE INVESTIGATION

PROJECT PEI-FI-285-1 (84) 88 COUNTY Cobb DATE 9-16-76

LOCATION Br. No. 4 Rt BORING NO. 14

BENT NO. 4 FOOTING 37' Rt L Offset 12' Fwd. GROUND ELEV. 883.67

PROPOSED FOOTING ELEV. PARTY CHIEF Bowling

ELEV.	BORING LOG	SAMPLE	BLOW	UNIFIED	W	γ	Gs	C.	ϕ	BC	LL	PI	% 200	% CLAY	e
	Gr. El.														
880	Medium Dense Mitc. Micas Sandy Silt														
	Loose Mitc. Micas Sandy Silt	1s	8												
870		2s	18												
	Medium Dense	3s	14												
		4s	12												
		5s	14												
860		6s	11												
	To Dense	7s	11												
850															
	Mitc. Micas														
840															
830	Sandy Silt														
	Practical Refusal On Rock														

ELEV.	BORING LOG	SAMPLE	BLOW	UNIFIED	W	γ	Gs	C.	ϕ	BC	LL	PI	% 200	% CLAY	e
	Gr. El.														
880	Medium Dense Mitc. Micas														
		1s	20												
870		2s	14												
		3s	20												
	Sandy Silt (W/ Gravel)	4s	21												
		5s	25												
860	Dense Mitc. Micas Sandy Silt	6s	26												
		7s	22												
	Medium Dense														
		8s	24												
850															
	To Dense														
		9s	33												
840															
	Mitc. Micas														
		10s	30												
830	Clayey Sandy Silt														
	Practical Refusal On Rock														

ELEV.	BORING LOG	SAMPLE	BLOW	UNIFIED	W	γ	Gs	C.	ϕ	BC	LL	PI	% 200	% CLAY	e
	Gr. El.														
880	Medium Dense Mitc. Micas														
	Sandy Silt	1s	23												
870	Dse Mitc Micas Sdy Silt	2s	30												
	Medium Dense Mitc. Micas Sandy Silt	3s	14												
	Dense Mitc	4s	27												
		5s	34												
860	Micas Sandy Silt	6s	37												
		7s	38												
	End Drilling														

$\gamma = 0$
$\phi = 0$
$C = 0$

$\gamma = 120$ PCF
$\phi = 20°$
$C = 250$ PSF

$\gamma = 150$ PCF
$\phi = 45°$
$C = 3000$ PSF

GEORGIA DEPARTMENT OF TRANSPORTATION

Bridge Inspection Report

District: 7
Bridge Inspector: JMC
Location ID: 067-00407D-020.41C
Structure ID: 067-0106-0

Inspection Date: 05/01/99
Over: ROTTENWOOD CREEK
County: Cobb
Road Name: I-285

Inspection Area: 09
Bridge Status: 04

EVALUATION & DEFICIENCIES

SubStructure: **Year Painted:** 0000
All concrete units - caps and 8 columns per bent.

Snooper at the present time is downed and bridge will be snooper at a later date 5-99.

Minor cracks in both abutment caps..

Anchor bolts push up at abutment #4 at beams #17,#18 & #20 (loose).

Debris on both abutment caps holding moisture.

Erosion under caps at both abutment exposing steel h-pile (minor section loss on pile)and down both slopes .

HS-20

SuperStructure: **Year Painted:** 1997
3 span continuous steel beam (22 beams per span)- painted in 1997.

Snooper at the present time is downed and bridge will be snooper at a later date 5-99.

Abutment #1 under beam #8 roller bearing strap has broken allowing rollers to twist. Still functioning at present but requires repair .

Utility hangers welded to beams #21 & #22.

HS-20

Deck:
7 1/2" concrete slab.

The deck surface has minor cracking and spalls with very minor cracking on bottom.

Minor spall in span 3 CCBL on the rt. shoulder. Due to shy cover.

The jonts at both abuts are leaking. (Silicone)

HS-20

General:
Built in 1978 project # unknown.

Widened in 1986 project # IR-75-3 (143) ct.10.

Metal S.I.P. deck forms under original section.

Concrete S.I.P deck forms under widening section.

Widening section has neoprene bearings.

GEORGIA DEPARTMENT OF TRANSPORTATION

Bridge Inspection Report

EVALUATION & DEFICIENCIES

Condition Rating

Component	Material	Rating
Substructure	Concrete	7
Superstructure	Steel	6
Deck	Concrete	7

Temp Shored: **No**

Truck Type	Gross/H-Mod	HSMod	Tand	3-S-2	Log	Piggy
Calculated Posting	20	25	28	40	36	40
Posting Required						
Existing Posting	00	00	00	00	00	00

Not a School Bus Route

Structure Does Not Require Posting

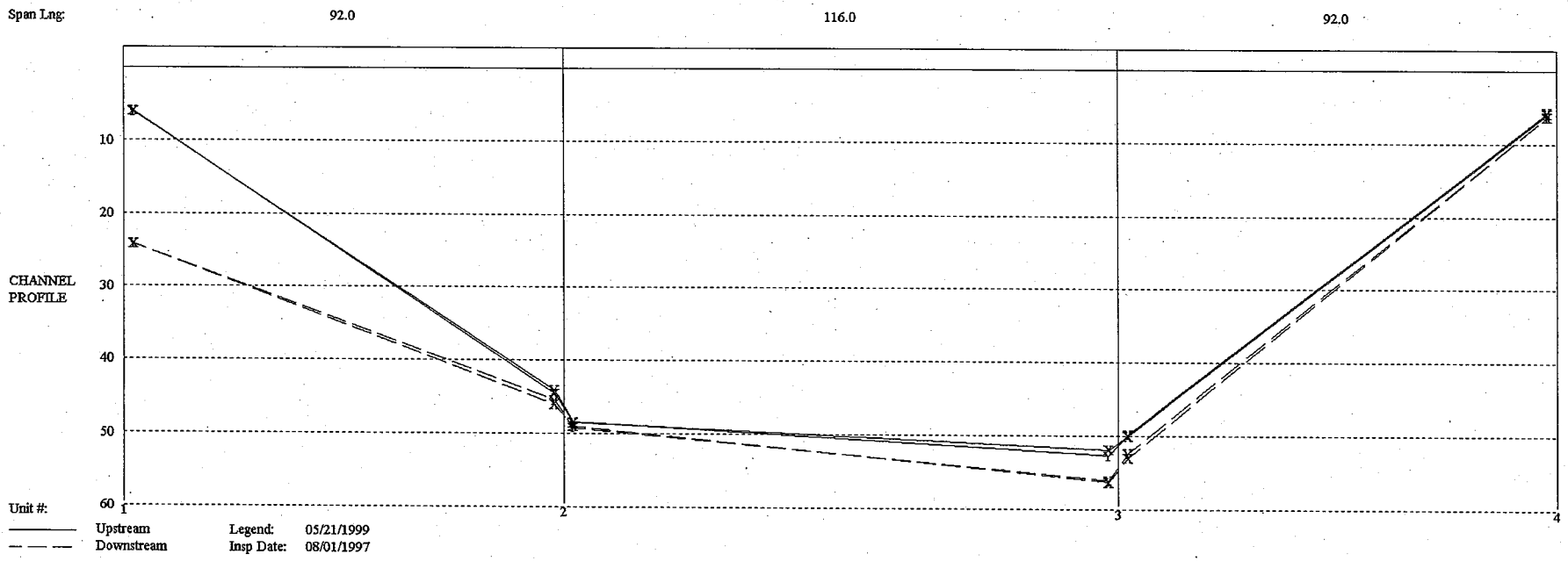
GEORGIA DEPARTMENT OF TRANSPORTATION

WaterWay Report

District: 7
Bridge Inspector: JMC
Location ID: 067-00407D-020.41C
Structure ID: 067-0106-0

Inspection Date: 05/01/99
Over: ROTTENWOOD CREEK
County: Cobb
Skew: 00

Inspection Area: 09



UPSTREAM		1+	2-	2+	3-	3+	4-
05/21/1999	JMC	6.0	44.7	48.5	51.9	50.0	5.9
08/01/1997	BDHDEM	6.1	44.2	48.4	52.7	49.8	5.7
DOWNSTREAM							
05/21/1999	JMC	24.2	46.1	49.0	56.3	53.0	6.3
08/01/1997	BDHDEM	24.2	45.5	49.2	56.1	52.4	6.3

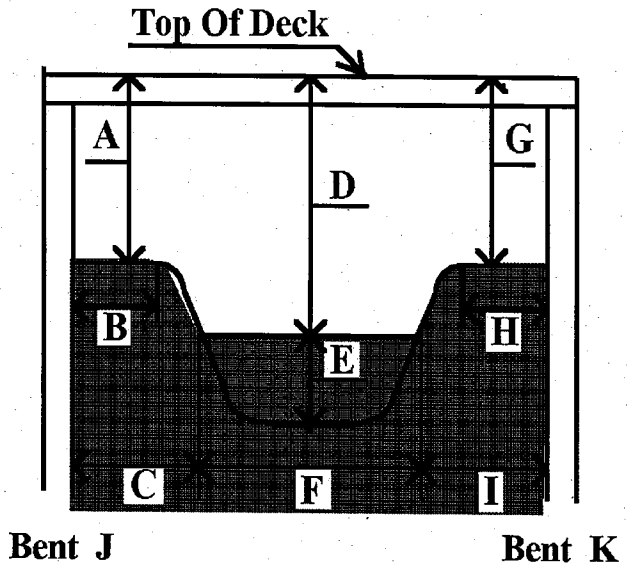
Foundation Type: Spread Footing
Stream Velocity: Slow
Soil Type: Sand

Deep Hole Channel Scour Locations: None

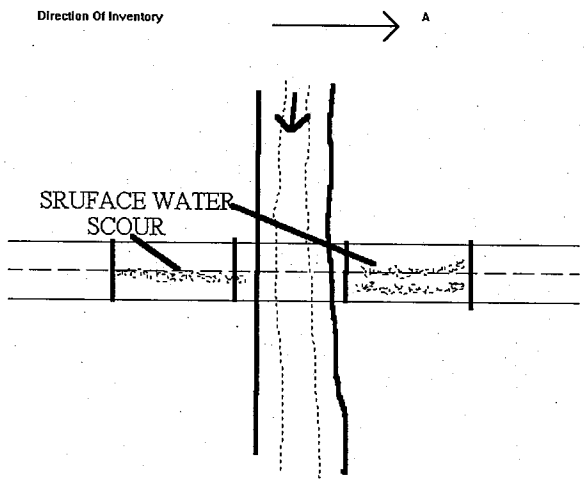
Report Date: 01/25/2000

GEORGIA DEPARTMENT OF TRANSPORTATION

WaterWay Report



A: 48
B: 20
C: 43
D: 65.6
E: 1.9
F: 36
G: 57
H: 14
I: 37
J: 2
K: 3



Side view at the Channel.

Location of Bridge Height: -61' FROM BENT #3 - UpStream

Scour Condition: 8 **Waterway Adequacy:** 9 **Channel Protections:** 8

Comments:
No comments are required.

0 = **SubStructure**
0 = **Channel Skew**
---
0 = **Stream Angle**

COBB
067 - 00407 D - 020.41 C

067-0106-0

PHOTO'S: 4

SHEET'S: 24

D.O.T. 66

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE

OFFICE ATLANTA-MAINTENANCE

DATE JULY 28, 1995

FROM LARRY B. SEABROOK, STATE MAINTENANCE ENGINEER

TO PAUL V. LILES, JR., STATE BRIDGE ENGINEER

SUBJECT **KENNEDY INTERCHANGE**
NH-IM-75-3 (195) COBB COUNTY
IM-NH-75-3 (205) COBB COUNTY
P.I. NO. 712800, 712804

AS REQUESTED, A CONDITION SURVEY HAS BEEN PERFORMED ON THE BRIDGES IN THE I-75/I-285 INTERCHANGE AND ON I-75 OVER THE CHATTAHOOCHEE RIVER. FOLLOWING IS AN ITEMIZED LISTING OF THE DEFICIENCIES NOTED ON EACH STRUCTURE.

BRIDGE ID 121-00401-257.28N
STRUCTURE ID 121-0159-0
I-75 OVER CHATTAHOOCHEE RIVER

1). CLEAN AND RESEAL ALL DECK JOINTS.

2). REPAIR DECK SPALLS AT FOLLOWING JOINT LOCATIONS:

BENT #		APPROXIMATE AREA
4	NBL	20 FT^2
6	NBL	10 FT^2
7	NBL	10 FT^2
12	SBL	10 FT^2
13	SBL	20 FT^2
14	SBL	10 FT^2
15	SBL	10 FT^2

3). REPAIR SCOUR AND UNDERMINING OF CONCRETE SPREAD FOOTINGS AT FOLLOWING LOCATIONS:

BENT #	COLUMN	APPROXIMATE AREA
5	1	10 FT^2 @ EAST FACE
5	4	12 FT^2 @ NORTHWEST CORNER
5	6	5 FT^2 @ SOUTH FACE
11	4	5 FT^2 @ NORTHEAST CORNER
14	3	5 FT^2 @ NORTH FACE
14	4	10 FT^2 @ EAST FACE
14	6	20 FT^2 @ NORTH & SOUTH FACE

BRIDGE ID 067-00407-20.41C
STRUCTURE ID 067-0106-0
I-285 OVER ROTTENWOOD CREEK

1). CLEAN AND PAINT STRUCTURAL STEEL.

2). REPLACE EXISTING WABOCRETE JOINTS AT ABUTMENT #1 AND #4 WBL AND ABUTMENT #1 EBL WITH GENI JOINT.

3). REPAIR EROSION OF SLOPE AT ABUTMENT #1 AND #4 AND UNDERMINING OF CAPS EXPOSING FOUNDATIONS PILES AT FOLLOWING LOCATIONS:

ABUTMENT	LOCATIONS
1	BETWEEN BEAMS 4-5, 9-10, 12-14
2	BETWEEN BEAMS 8-10, 1-2

4). REPLACE ROLLER BEARING AT ABUTMENT #1, BEAM #8.

BRIDGE ID 067-00407R-020.35C
STRUCTURE ID 067-0105-0
I-285 CD RAMP EBL OVER ROTTONWOOD CREEK

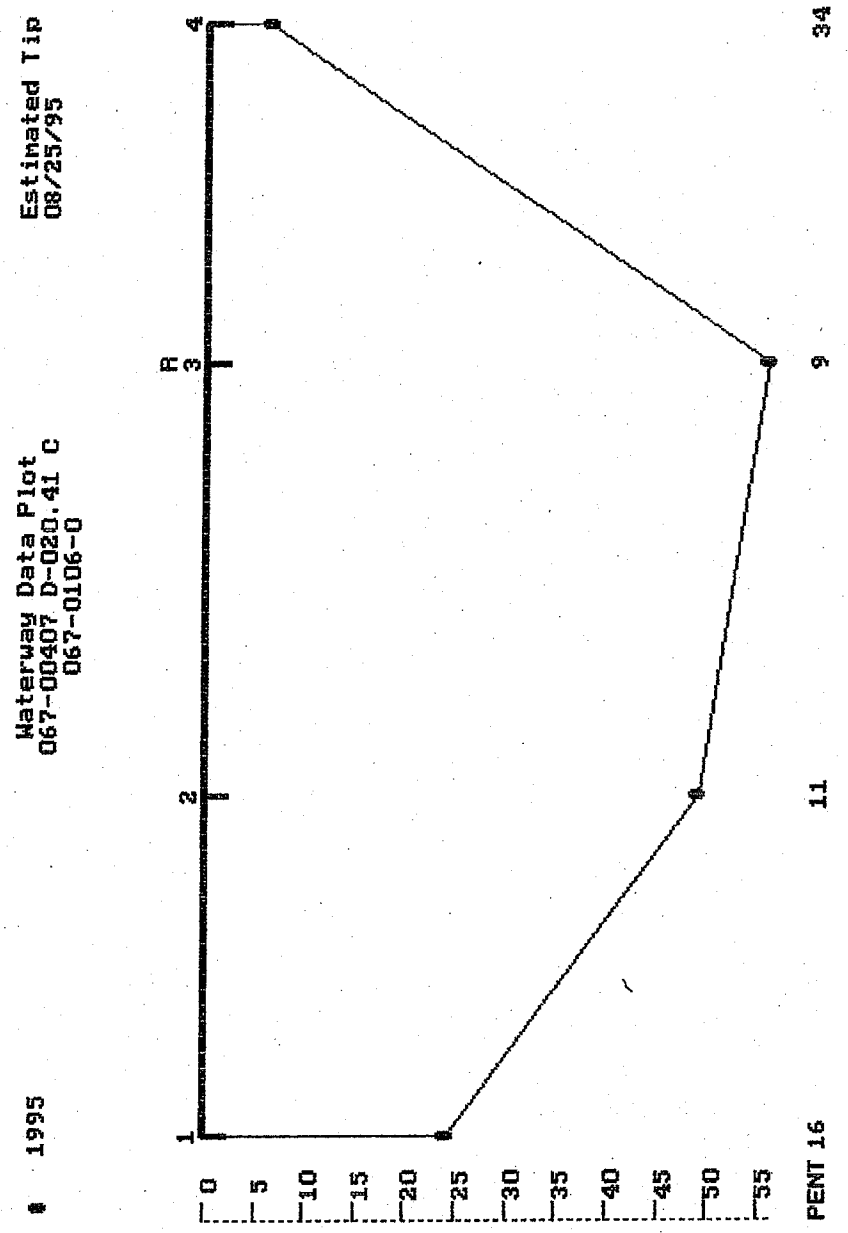
1). CLEAN AND PAINT STRUCTURAL STEEL.

2). CLEAN AND SEAL DECK JOINTS.

3). REPAIR JOINT SPALL AT BENT #2 (APPROXIMATELY 20 FT^2).

IF FURTHER INFORMATION IS REQUIRED ON ANY OF THESE STRUCTURES, PLEASE CONTACT BRIAN K. SUMMERS OF MY OFFICE AT 657-6063.

LBS:BKS:WS



WATERWAY DATA SUMMARY

067-00407 D-020.41 C
067-0106-0

Bent	Tip	Found	1995	Pent
# 1	40	R	24.2	15.8
# 2	60	R	49.2	10.8
# 3	65	R	56.1	8.9
# 4	40	R	6.3	33.7

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Page: 5
User Name: CLP
Reference: 067-0106-0 MFILES/067-0106-0 MFILES-01-005

Georgia Department Of Transportation
Bridge Inspection Section
Stream Waterway Data

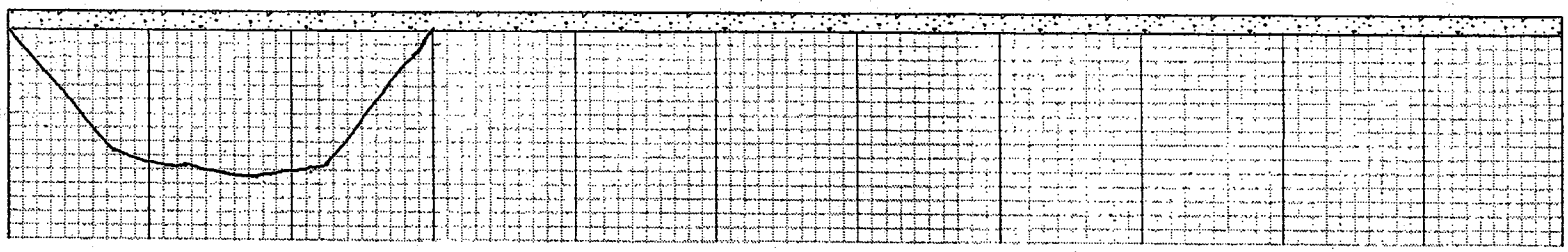
Location I.D. #: 067-0040TD-02041C
Serial Number: 067-0106-0
County: Cobb
Over: ROTTENWOOD CREEK

CIRCLE FOUNDATION TYPE: GRAVITY WALL SPREAD FOOTING PILE COMB. (UNKNOWN)

Span Lengths: 92' 116' 92'

a: 5'

CHANNEL PROFILE



Unit # 1 2 3 4

LOCATION — UPSTREAM

INSPECTOR	DATE	+	- 5	+ 5	- 5	+ 5	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
BDH-DEM	6-93		44.5	49.4	53.3	50.6																	

LOCATION — DOWNSTREAM

INSPECTOR	DATE	+	- 5	+ 5	- 5	+ 5	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-	+	-
BDH-DEM	6-93		45.4	50.5	56.3	52.4																	

CIRCLE STREAM VELOCITY:

MARSH (SLOW) MODERATE SWIFT SWAMP OVERFLOW

SOIL TYPE SAND & ROCK

DEEP HOLE Channel Scour Location

None [X] Upstream [ ] Downstream [ ] Under Structure [ ]

If present, Scour is centered at _____ ft. Foward [ ] Back [ ] of Unit # _____

Hole is approximately _____ ft. Wide and _____ ft. Deep

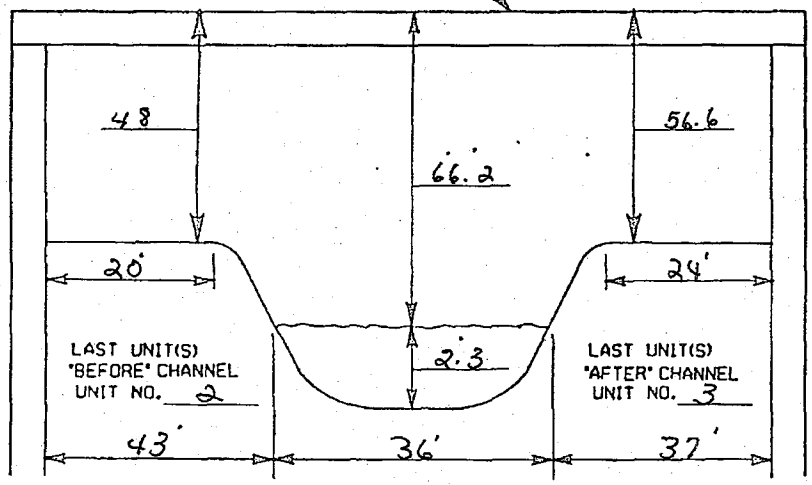
COMMENTS:

0 = SUBSTRUCTURE SKEW

0 = CHANNEL SKEW

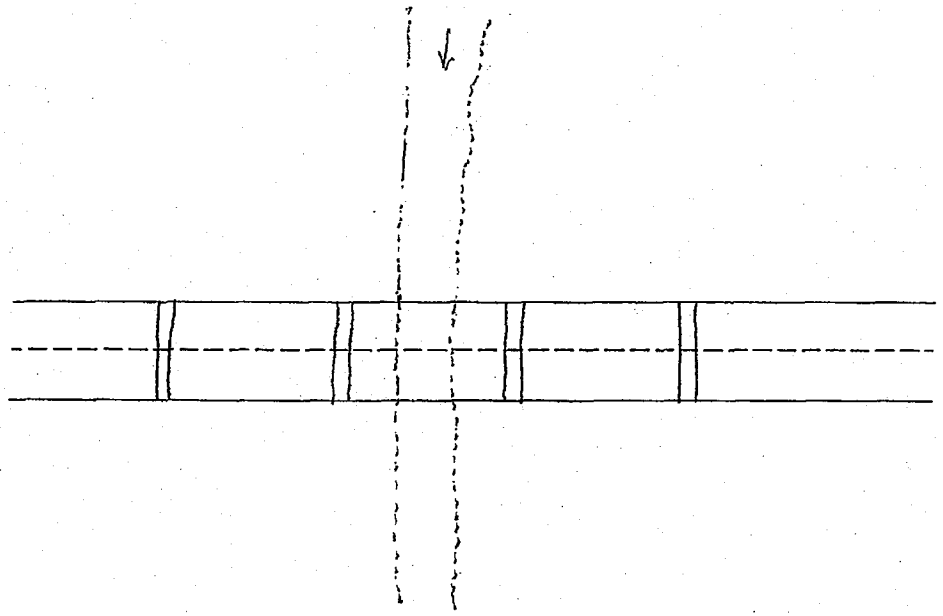
0 = Δ OF STREAM ATTACK

TOP OF DECK



LOCATION OF BRIDGE HEIGHT 51' FORWARD BENT #2

DIRECTION OF INVENTORY →



Georgia Department of Transportation
Bridge Inspection Section
Stream Waterway Data

Location I.D. #: 067-00407-020415 County: COBB
Serial Number: 067-0106-0 Over : ROTTENWOOD CREEK
Inspector(s) : JMC-BDH Date : 5-91

Foundation Type:
Gravity Wall [ ] Spread Footing [ ] Pile [ ] Comb [ ] Unknown [X]

NONE
Substructure Units Located Within Channel Limits

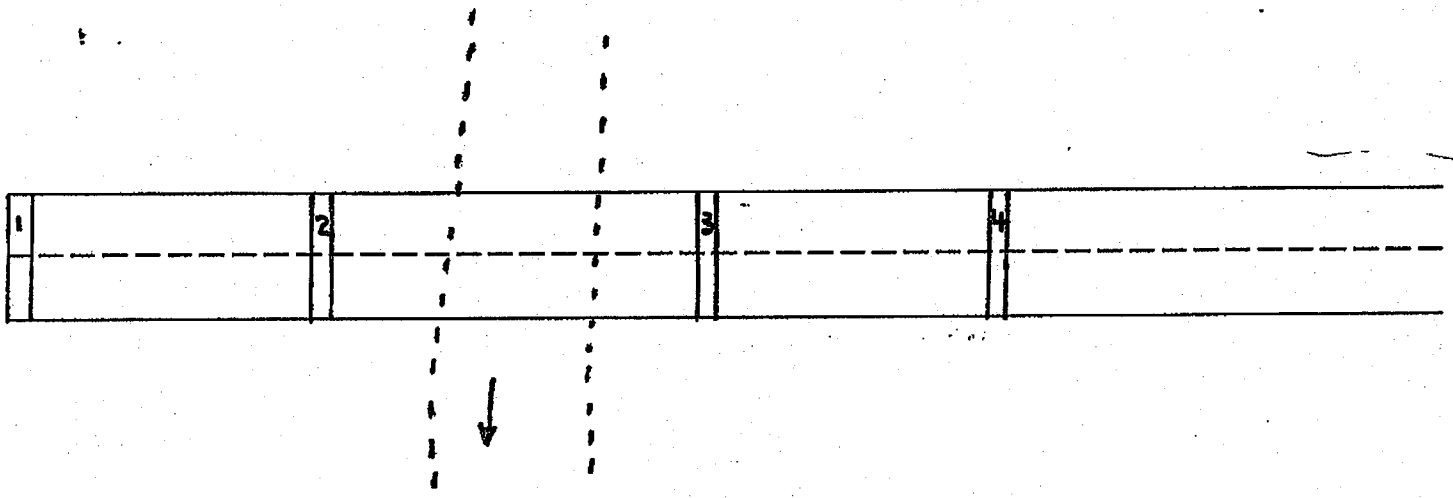
	Bt.#	Bt. #	Bt. #	Bt. #
Span Lengths :	____ ft.	____ ft.	____ ft.	____ ft. ____ ft.
Span Lengths :	____	____ ft.	____ ft.	____ ft. ____ ft.

"*Deep Hole*" Channel Scour Location

None [X] Upstream [ ] Downstream [ ] Under Structure [ ]
If present, Scour is centered at ____ ft. Foward [ ] Back [ ] of Unit # ____
Hole is approximately ____ ft. Wide and ____ ft. Deep

Normal Stream Velocity : Slow [X] Moderate [ ] Swift [ ]

Direction of Inventory

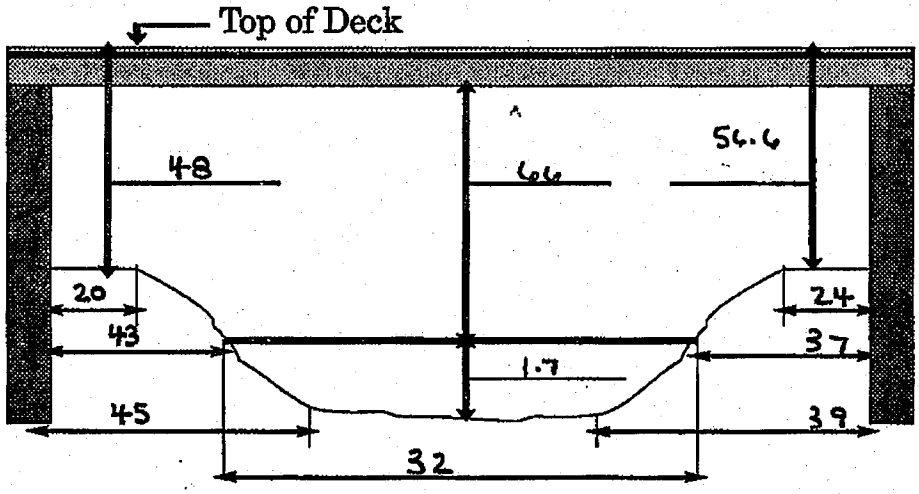


Date : 5-91 **Serial Number:** 067-0106-0

"***Deck To Streambed Soundings*** " at Each Unit in the Channel

	Upstream Soundings	Downstream Soundings
	- ____ ft. = ____.____	- ____ ft. = ____.____
Bent # 1 :	+ ____ ft. = ____.____	+ ____ ft. = ____.____
	- 5 ft. = 44.5	- 5 ft. = 45.7
Bent # 2 :	+ 5 ft. = 48.0	+ 5 ft. = 49.9
	- 5 ft. = 52.6	- 5 ft. = 55.9
Bent # 3 :	+ 5 ft. = 49.8	+ 5 ft. = 52.2
	- ____ ft. = ____.____	- ____ ft. = ____.____
Bent # 4 :	+ ____ ft. = ____.____	+ ____ ft. = ____.____
	- ____ ft. = ____.____	- ____ ft. = ____.____
Bent # ____ :	+ ____ ft. = ____.____	+ ____ ft. = ____.____
	- ____ ft. = ____.____	- ____ ft. = ____.____
Bent # ____ :	+ ____ ft. = ____.____	+ ____ ft. = ____.____
	- ____ ft. = ____.____	- ____ ft. = ____.____
Bent # ____ :	+ ____ ft. = ____.____	+ ____ ft. = ____.____
	- ____ ft. = ____.____	- ____ ft. = ____.____
Bent # ____ :	+ ____ ft. = ____.____	+ ____ ft. = ____.____

Location of "***Bridge Height***": 51' FDW. OF BT. 2 UP STREAM



Comments: ALL SOUNDINGS DRY

0 ° = Substructure Skew
0 ° = Channel Skew
0 ° = Angle of Stream Attack

[illegible] BRIDGE INSPECTION [illegible]
[illegible] INSPECTION AREA # 7
[illegible] MARIETTA GEORGIA

[illegible] 067-00407-02041C Cobb County
[illegible] 067 - 0106 - 0

* STRUCTURE TO LOCATED ON STATE ROUTE # 00407 .

[illegible] of bridge by : Bobby D. Hogan BDH DATE : 05-91

[illegible] CONCRETE DECK] ..... Inventory Condition Code : 7

** HS-LOAD **		<------- AASHTO ------->	** H-LOAD **	
INVENTORY	OPERATING		INVENTORY	OPERATING
37 TON.	51 TON.		20 TON.	28 TON.

[STEEL SUPERSTRUCTURE] ..... Inventory Condition Code : 7
SUB. SPAN LENGTH : 91 FEET.

** HS-LOAD **		<------- AASHTO ------->	** H-LOAD **	
INVENTORY	OPERATING		INVENTORY	OPERATING
40 TON.	64 TON.		28 TON.	45 TON.

[CONCRETE SUBSTRUCTURE] ..... Inventory Condition Code : 7
SUB. SPAN LENGTH : 93 FEET.

** HS-LOAD **		<------- AASHTO ------->	** H-LOAD **	
INVENTORY	OPERATING		INVENTORY	OPERATING
36 TON.	63 TON.		23 TON.	40 TON.

*** OUTPUT DATA ***

>>> STANDARD [AASHTO] LOAD RATINGS <<<

[HS] INVENTORY ... : 36 TON. [H] INVENTORY ... : 20 TON.
[HS] OPERATING ... : 51 TON. [H] OPERATING ... : 28 TON.

INVENTORY CAPACITY IS EQUIVALENT TO [AASHTO] HS- 20 DESIGN. [8]

[COMBINATION TYPE POSTING LOADS]

>>> MODIFIED POSTING @ 65 % <<<		>> OPERATING <<		>> OVERSTRESS <<
H-LOAD	: 20 . [0]	[ ]	34	<------ 0 %
HS-LOAD	: 25 . [0]	[ ]	57	<------ 0 %
TANDEM	: 28 . [0]	[ ]	50	<------ 0 %
TYPE 3S2	: 40 . [0]	[ ]	85	<------ 0 %
LOGGING TRUCK ..	: 36 . [0]	[ ]	74	<------ 0 %
PIGGY-BACK	: 40 . [0]	[ ]	105	<------ 0 %

* STRUCTURE DOES NOT REQUIRE POSTING.

The states legal load limit generates a MAX. OVERSTRESS of [0 %]

THE AVERAGE DAILY TRAFFIC AT THIS SITE = 169200 V.P.D.
STRUCTURAL EVALUATION CODE - ITEM # 67 = 7
BRIDGE POSTING CODE - ITEM # 70 = 5

****
** CONCRETE DECK **
****

STRUCTURE # : 067-00407-02041C Cobb County

A STRUCTURE IS LOCATED ON STATE ROUTE # 00407.

INVENTORY RATING IS BASED ON A KNOWN DESIGN.

RATING PERFORMED BY : Bobby D. Hogan BDH DATE : 05-91

*** INPUT DATA ***

DESIGN LOAD	:	* STANDARD HS-20 *
DECK THICKNESS	:	7.5 INCHES.
ASPHALT DEPTH	:	0 INCHES.
DECK CLEAR SPAN	:	6.75 FEET.
BEAM CL. WIDTH	:	11.972 INCHES.

*** OUTPUT DATA ***

>>> STANDARD [AASHTO] LOAD RATINGS <<<

[H] INVENTORY ... :	20 TON.	[HS] INVENTORY ... :	37 TON.
[H] OPERATING ... :	28 TON.	[HS] OPERATING ... :	51 TON.

THE DECK INVENTORY CAPACITY IS EQUIVALENT TO [AASHTO] HS- 20 DESIGN.

	>>> MODIFIED POSTING @ 65 % <<<	>> OPERATING <<	>> OVERSTRESS <<
H-LOAD ..... :	29 TON.	[ ] 34	<------ 0 %
HS-LOAD ..... :	49 TON.	[ ] 57	<------ 0 %
TRI-AXLE ..... :	60 TON.	[ ] 70	<------ 0 %
TANDEM ..... :	58 TON.	[ ] 67	<------ 0 %
TYPE 3S2 ..... :	91 TON.	[ ] 106	<------ 0 %
PIGGY-BACK ..... :	92 TON.	[ ] 107	<------ 0 %
LOGGING TRUCK .. :	65 TON.	[ ] 75	<------ 0 %

** POSTING IS NOT REQUIRED.

INSPECTORS COMMENTS :
Bridge has been widened. Calculations for original portion of bridge.

****
* SUPERSTRUCTURE *
****

BRIDGE # 067-00407-02041C Cobb County

THIS STRUCTURE IS LOCATED ON STATE ROUTE # 00407.

RATING PERFORMED BY : Bobby D. Hogan BDH DATE : 05-91

THIS IS A (DESIGN TYPE STEEL BEAM SUPERSTRUCTURE)

INVENTORY LOAD RATING CAPACITY IS BASED ON A KNOWN OPTION.

ORIGINAL DESIGN LOAD : * STANDARD HS-20 *

*** INPUT DATA ***

SPAN LENGTH	:	91 FEET.
NUMBER OF LANES	:	2
BEAM SPACINGS	:	7.75 FEET.
INPLACE ASPHALT DEPTH .	:	0 INCHES.
BEAM WEIGHT / FOOT	:	150 LBS.
DECK THICKNESS	:	7.5 INCHES.

*** OUTPUT DATA ***

>>> STANDARD [AASHTO] LOAD RATINGS <<<

[H] INVENTORY ... :	28 TON.	[HS] INVENTORY ... :	40 TON.
[H] OPERATING ... :	45 TON.	[HS] OPERATING ... :	64 TON.

SUPERSTRUCTURE INVENTORY CAPACITY IS EQUIVALENT TO [AASHTO] HS- 22 DESIGN.

	>>> MODIFIED POSTING @ 65 % <<<		>> OPERATING <<	>> OVERSTRESS <<
H-LOAD ..... :	48 TON.	[ ]	59	<------- 0 %
HS-LOAD ..... :	53 TON.	[ ]	65	<------- 0 %
TRI-AXLE ..... :	50 TON.	[ ]	61	<------- 0 %
TANDEM ..... :	51 TON.	[ ]	63	<------- 0 %
TYPE 3S2 ..... :	69 TON.	[ ]	85	<------- 0 %
PIGGY-BACK .... :	85 TON.	[ ]	105	<------- 0 %
LOGGING TRUCK .. :	60 TON.	[ ]	74	<------- 0 %

** POSTING IS NOT REQUIRED.

INSPECTORS COMMENTS :
Bridge has been widened. Calculations for original portion of bridge.

ANALYSIS FOR ABUTMENT #

067-00407-02041C Cobb County

BRIDGE IS LOCATED ON STATE ROUTE # 00407.

Bridge by : Bobby D. Hogan BDH DATE : 05-91

*** INPUT DATA ***

INVENTORY RATING BASED ON A KNOWN DESIGN. * STANDARD HS-20 *

CALCULATIONS FOR CONCRETE ABUTMENT.
NUMBER OF SPANS ON BENT .... : 1
SPAN LENGTH ..... : 93 FEET.
TYPE BEAMS : 150 LBS. / FT. 16 BEAMS.
CONCRETE DECK : 129 FT. WIDE X 7.5 IN. THICK.

*** OUTPUT DATA ***

>>> STANDARD [AASHTO] LOAD RATINGS <<<

[H] INVENTORY ... : 23 TON. [HS] INVENTORY ... : 36 TON.
[H] OPERATING ... : 40 TON. [HS] OPERATING ... : 63 TON.

SUBSTRUCTURE INVENTORY CAPACITY IS EQUIVALENT TO [AASHTO] HS- 20 DESIGN.

	>>> MODIFIED POSTING @ 65 % <<<	>> OPERATING <<	>> OVERSTRESS <<
H-LOAD ..... :	33 TON.	[ ] 41	<------- 0 %
HS-LOAD ..... :	51 TON.	[ ] 65	<------- 0 %
TRI-AXLE ..... :	40 TON.	[ ] 50	<------- 0 %
TANDEM ..... :	40 TON.	[ ] 50	<------- 0 %
TYPE 3S2 ..... :	84 TON.	[ ] 106	<------- 0 %
PIGGY-BACK ..... :	127 TON.	[ ] 162	<------- 0 %
LOGGING TRUCK .. :	63 TON.	[ ] 80	<------- 0 %

POSTING IS NOT REQUIRED.

* Inspectors Comments :
Bridge has been widened. - Calc. for ORIGINAL PORTION of bridge.

GEORGIA DEPARTMENT OF TRANSPORTATION

STATE MAINTAINED SYSTEM
BRIDGE CONDITION REPORT

DISTRICT : 7 Insp Area : 9

Bridge Inspector : D.HOGAN BDH D.MEALER Date : 04-95
Location ID # : 067-00407-02041C Over : ROTTONWOOD CREEK
Structure ID # : 067-0106-0 County : Cobb County

EVALUATION & DEFICIENCIES

Substructure : (Pile) Paint Code 0

ALL CONCRETE UNITS - CAPS AND COLUMNS - MINOR CRACKS IN BOTH ABUTMENT CAPS DEBRIS ON BOTH ABUTMENT CAPS HOLDING MOISTURE - SCOUR UNDER CAPS AT BOTH ABUTMENTS AND DOWN BOTH SLOPES - SCOUR AT ABUTMENTS EXPOSING H-PILE WITH MINOR SECTION LOSS

Superstructure : Paint Code 2

3 SPAN STEEL BEAM - PAINTED IN 1978 - CORROSION ON BEAM ENDS AND BEARING AREAS AND UNDER CONSTRUCTION JOINTS - ABUTMENT #1 UNDER BEAM #8 ROLLER BEARING STRAP HAS BROKEN ALLOWING ROLLERS TO TWIST - FUNCTIONING AT PRESENT BUT REQUIRES REPAIR

Deck :

7 1/2" CONCRETE SLAB - MINOR CRACKING AND SPALLS - VERY MINOR CRACKING ON BOTTOM - WABOCRETE JOINT AT ABUTMENTS HAVE AREAS THAT HAVE FAIL AND REQUIRES REPAIR - ALL CONSTRUCTION JOINTS ARE LEAKING

Component	Material	Condition Rating Description	Number	Load Cap.
Substructure	C	G-F	7	HS-20
Superstructure	S	F	6	HS-20
Deck	C	G-F	7	HS-20

Temporary Shored	
Yes	
No	***

Truck Type	Gross	H-Mod	HSMod	Tand.	3-S-2	Log	Piggy
Calculated Posting	-	20	25	28	40	36	40
Existing Posting	-	-	-	-	-	-	-

Posting Requirements	
Requires Closing	
Requires Posting	
Posting Not Req.	*

WATERWAY DATA
BR. HEIGHT : 65.6 Ft. WATER DEPTH : 1.9 Ft. DATA TAKEN ON THE UPSTREAM SIDE OF BRIDGE AT -61 Ft. FROM BENT #3

General Comments :

BUILT IN 1978 PROJECT # UNKNOWN
WIDENED IN 1986 PROJECT # IR-75-3 (143) CT.10

METAL S.I.P. DECK FORMS UNDER ORIGINAL
CONCRETE S.I.P. DECK FORMS UNDER WIDENING
WIDENING SECTION HAS NEOPREME BEARINGS

GEORGIA DEPARTMENT OF TRANSPORTATION

STATE MAINTAINED SYSTEM
BRIDGE CONDITION REPORT

DISTRICT : 7 Insp Area : 9

Bridge Inspector : D.HOGAN BDH D.MEALER Date : 06-93
Location ID # : 067-00407-02041C Over : ROTTONWOOD CREEK
Structure ID # : 067-0106-0 County : Cobb County

EVALUATION & DEFICIENCIES

Substructure : (Pile) Paint Code 0

ALL CONCRETE UNITS - CAPS AND COLUMNS - MINOR CRACKS IN BOTH ABUTMENT CAPS. DEBRIS ON BOTH ABUTMENT CAPS HOLDING MOISTURE. SCOUR UNDER CAPS AT BOTH ABUTMENTS AND DOWN BOTH SLOPES. - STEEL H - PILE EXPOSED WITH MINOR SECTION LOSS.

Superstructure : Paint Code 2

3 SPAN STEEL BEAM - PAINTED IN 1978 - CORROSION ON BEAM ENDS AND BEARING AREAS AND UNDER CONSTRUCTION JOINTS. - ABUTMENT #1 UNDER BEAM #8 ROLLER BEARING STRAP HAS BROKEN ALLOWING ROLLERS TO TWIST. - FUNCTIONING AT PRESENT BUT REQUIRES REPAIR.

Deck :

7 1/2" CONCRETE SLAB - MINOR CRACKS AND SPALLS
WABOCRETE JOINT AT ABUTMENTS HAVE AREAS THAT HAVE FAILED AND REQUIRE REPAIR.
ALL CONSTRUCTION JOINTS ARE LEAKING.

Component	Material	Condition Rating Description	Number	Load Cap.
Substructure	C	G-F	7	HS-20
Superstructure	S	F	6	HS-20
Deck	C	G-F	7	HS-20

Temporary Shored	
Yes	
No	***

Truck Type	Gross	H-Mod	HSMod	Tand.	3-S-2	Log	Piggy
Calculated Posting	-	20	25	28	40	36	40
Existing Posting	-	-	-	-	-	-	-

Posting Requirements	
Requires Closing	
Requires Posting	
Posting Not Req.	*

General Comments :

BUILT IN 1978 PROJECT # UNKNOWN
WIDENED IN 1986 PROJECT # IR-75-3 (143) CT-10

METAL S.I.P. DECK FORMS UNDER ORIGINAL
CONCRETE S.I.P. DECK FORMS UNDER WIDENING

GEORGIA DEPARTMENT OF TRANSPORTATION

STATE MAINTAINED SYSTEM
BRIDGE CONDITION REPORT

District : 7 Insp Area : 9

Bridge Inspector : JMC - BDH Date : 5-91
Location ID # : 067-0040T-028416 Over : ROTTENWOOD CREEK
Structure ID # : 067-0106-0 County : COBB

EVALUATION & DEFICIENCIES

Substructure : (Pile) Paint Code _____

ALL CONC. UNITS

MINOR CRACKS BOTH ABUTS.

SCOUR UNDER CAPS AT BOTH ABUTS, AND DOWN BOTH SLOPES. STEEL H-PILES EXPOSED ABUT. 4 EXPOSED H-PILES AT ABUT. 1 HAS BEEN REPAIRED.

Superstructure : Paint Code 2

3 SPAN STEEL MULTI-BEAMS

CORROSION ON BEAM ENDS AND BEARING AREAS

ABUT. 1 UNDER BEAM B ROLLER BEARING HAS BROKEN, REMAINING BEARINGS HAVE MINOR MOVEMENT.

Deck :

7½" CONC.

MINOR CRACKS & SPALLS
WABO CRETE JOINTS AT ABUT 1 LT. LEAKS
CONSTRUCTION JOINTS LEAK

Culvert : # of Barrels _____ Size _____

Component	Material	Condition Rating Description	Number	Load Cap.
Substructure	C	GOOD	7	HS-20
Superstructure	S	SAT.	6	HS-20
Deck	C	GOOD	7	HS-20

Temporary Shored	
Yes	
No	✓

Truck Type	Gross	H-Mod	HSMod	Tand.	3-S-2	Log	Piggy
Calculated Posting		20	25	28	40	36	40
Existing Posting	NONE						

Posting Requirements	
Requires Closing	
Requires Posting	
Posting Not Req.	✓

General Comments: _____

GEORGIA DEPARTMENT OF TRANSPORTATION
BRIDGE DEFICIENCY REPORT - DISTRICT: 7

FROM: JMC-BDH BRIDGE INSPECTOR
TO: LARRY SEABROOK ASST. DISTRICT ENGINEER, MAINTENANCE
DEFICIENCIES NOTED FOR STRUCTURE ON STATE ROUTE NO. 407
OVER ROTTENWOOD CREEK IN COBB COUNTY.

BRIDGE IDENTIFICATION NUMBER																		
CO. NO.			ROUTE NO.				DO	ODOMETER					OR			CH	
1		3	4			6	8	10			14	15	16	17		18	
0	6	7	0	0	4	0	7		0	2	0	4	1	C			C

Serial No. 067-0106-0

ITEM NO.	UNITS	REQ'D WORK (19–23)	P (24)	DATE REPORTED (25–28)	LOCATION	DATE COMPLETE (29–32)	CARD (33–34)	INT.
204	BAGS						01	
402	NUB. INST.						02	
406	MAN-HRS.						03	
404	LIN. FT.						04	
610	MAN-HRS.						05	
612	LIN. FT.						06	
800	LIN. FT.						07	
802	LIN. FT.						08	
804	LIN. FT.						09	
806	SQ. FT.						10	
808	LIN. FT.						11	
810	MAN-HRS.						12	
812	MAN-HRS.						13	
814	MAN-HRS.						14	
816	NO. PILES						15	
801	LIN. FT.	00050	B	0591	SPOT SEAL DECK JOINT AT MIDDLE OF SPAN 1		16	
820	MAN-HRS.	00040	B	0487	"SEE COMMENTS"		17	
822	GAL.PAINT	00030	B	0487	CLEAN & SPOT PAINT BEAMS AND BEARINGS.		18	
824	GAL.PAINT						19	
830	MAN-HRS.	00040	B	0591	REPAIR SCOUR UNDER ABUT. CAPS STEEL 4-PILES EXPOSED ABUT. 4		20	
912	MAN-HRS.						21	

COMMENTS: 820: ROLLER BEARING UNDER BEAM 8 HAS SHIFTED & BROKEN AWAY FROM BOLT.

UPON REPAIR OF ANY OF THE NOTED DEFICIENCIES, PLEASE COMPLETE THIS FORM AND RETURN TO THE GENERAL OFFICE, ROOM 284, FOR FURTHER PROCESSING.

P=PRIORITY CODE
A=REPAIR REQUIRING IMMEDIATE ACTION
B=REPAIR REQUIRING SCHEDULING
C=PREVENTATIVE MAINTENANCE

GEORGIA DEPARTMENT OF TRANSPORTATION
BRIDGE DEFICIENCY REPORT - DISTRICT: 7 6-29-89

FROM: William A Hopkins Mrs BRIDGE INSPECTOR
TO: LARRY SEABROOK ASST. DISTRICT ENGINEER, MAINTENANCE
DEFICIENCIES NOTED FOR STRUCTURE ON STATE ROUTE NO. 407 (I-285) CBL + CCBL + RAMP I-75-S TO I-285 CBL
OVER BOTTENWOOD CREEK IN COBB COUNTY.

BRIDGE IDENTIFICATION NUMBER																			
CO. NO.			ROUTE NO.				DQ	ODOMETER					OR	H.OPER			CH	
1		9	4			6	8	10			14	15	16	17			18	
0	6	7	0	0	4	0	7		0	2	0	4	1	C			C	

Serial No. 067-0106-0

ITEM NO.	UNITS	REQ'D WORK (19–23)	P (24)	DATE REPORTED (25–28)	LOCATION	DATE COMPLETE (30–32)	CARD (33–34)	INT.
204	BAGS						01	
402	NUB. INST.						02	
406	MAN-HRS.						03	
404	LIN. FT.						04	
610	MAN-HRS.	00~~028~~	B	0689	25' OF GUARD RAIL DAMAGE + 4 METAL POST. I-285 EBL FWD RT.		05	
612	LIN. FT.						06	
800	LIN. FT.						07	
802	LIN. FT.	00~~050~~	B	0487	ABUT # 1 + 4 RUBBER SEALS TORN 10'± + ABUT #4 EBL 24' OF SEAL MISSING		08	
804	LIN. FT.						09	
806	SQ. FT.	0~~0030~~	C	0689	(MINOR) DECK SPALLS @ ABUT # 1+4 WBL + SOME ON BACK WALL		10	
808	LIN. FT.						11	
810	MAN-HRS.	00~~168~~	B	0689	SEE PHOTO ABUT # 1 + 4 VOIDS UNDER CAPS + H-PILES EXPOSED SCOUR DOWN SLOPES (BAD) 200'X 3'W X 3'D. ±		12	
812	MAN-HRS.						13	
814	MAN-HRS.						14	
816	NO. PILES						15	
801	LIN. FT.						16	
820	MAN-HRS.	00056	B	0487	SEE NOTES BELOW		17	
822	GAL.PAINT	00030	B	0487	CLEAN + SPOT PAINT BEAMS + BEARINGS		18	
824	GAL.PAINT						19	
830	MAN-HRS.						20	
912	MAN-HRS.						21	

COMMENTS: C-S-C BUILT IN 1978

820 — ABUT #1 BEAM #8 ROLLER BEARING BOLT BROKEN + OUT OF POSITION. REST OF BEARINGS #1-8 APPROXIMATELY 1" TO 1½" (@ 90°) OUT OF POSITION SEE (PHOTO 4-87) + ABUT #4 APPROX 1" OUT OF TOL.

802 * NOTE: ABUT #4 EBL 24' OF RUBBER SEAL MISSING.

* BARRIER WALL JOINT IN MEDIAN OPEN CAUSING SCOUR.

UPON REPAIR OF ANY OF THE NOTED DEFICIENCIES, PLEASE COMPLETE THIS FORM AND RETURN TO THE GENERAL OFFICE, ROOM 284, FOR FURTHER PROCESSING.

P=PRIORITY CODE
A=REPAIR REQUIRING IMMEDIATE ACTION
B=REPAIR REQUIRING SCHEDULING
C=PREVENTATIVE MAINTENANCE

GEORGIA DEPARTMENT OF TRANSPORTATION
BRIDGE DEFICIENCY REPORT - DISTRICT: 7 4-07-87 WAH

FROM: WILLIAM A. HOPKINS BRIDGE INSPECTOR
TO: BERRY MCWHORTER ASST. DISTRICT ENGINEER, MAINTENANCE
DEFICIENCIES NOTED FOR STRUCTURE ON STATE ROUTE NO. 407 (I-285) CBL+CCBL
OVER Rotten wood creek IN COBB COUNTY.

BRIDGE IDENTIFICATION NUMBER														
CO. NO.			ROUTE NO.				DO	ODOMETER						CN
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0	6	7	0	0	4	0	7	0	2	0	4	1	C	C

SERIAL # 067-0106-0

ITEM NO.	UNITS	REQ'D WORK (18-23)	P (24)	DATE REPORTED (25-30)	LOCATION	DATE COMPLETE (28-32)	CARD (33-34)	INT.
204	SQ.YD/SLAB						01	
402	LIN.FT.						02	
406	MAN-HRS.						03	
510	MAN-HRS.						04	
610	MAN-HRS.						05	
612	LIN FT.						06	
800	LIN FT.						07	
** 802	LIN FT.	000500	B	04 87	ABUT # 1+4 CBL ABANDONED JOINT FAILURE NEEDS REPAIR		08	
804	LIN FT.						09	
806	SQ FT.						10	
808	LIN FT.						11	
810	EACH						12	
812	MAN-HRS.						13	
814	MAN-HRS.						14	
816	NO. PILES						15	
818	MAN-HRS.						16	
** 820	MAN-HRS.	000056	B	04 87	SEE NOTE BELOW + (PHOTO)		17	
822	GAL. PAINT	000030	B	04 87	CLEAN + SPOT PAINT BEARINGS		18	
824	GAL. PAINT						19	
830	MAN-HRS.						20	
912	MAN-HRS.						21	

COMMENTS: C-S-C BUILT IN 1978

** ABUT #1 UNDER BEAM #8 ROLLER BEARING BOLT BROKE + OUT OF POSITION. RESET BEARINGS #1 THROUGH #8 APPROXIMATELY 1" OUT OF POSITION (SEE PHOTO)

UPON REPAIR OF ANY OF THE NOTED DEFICIENCIES, PLEASE COMPLETE THIS FORM AND RETURN TO THE GENERAL OFFICE, ROOM 284, FOR FURTHER PROCESSING.

P=PRIORITY CODE
A=REPAIR REQUIRING IMMEDIATE ACTION
B=REPAIR REQUIRING SCHEDULING
C=PREVENTATIVE MAINTENANCE

GEORGIA DEPARTMENT OF TRANSPORTATION

BRIDGE DEFICIENCY REPORT - DISTRICT 7

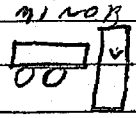
04-85 ZaH

FROM: Jimmy Lorren, Bridge Inspector DATE: ~~08-83~~

TO: General Office, ~~Asst. District Engineer, Maintenance~~

SUBJ: Deficiencies noted for the structure on State Route No. 407 (I-285)
over Rottenwood Creek in Cobb County.
Bridge ID: 067-00407-02041C (℄ EBL CBL)

PRIORITY CODE	ITEM NO.	UNITS	REQUIRED	LOCATION	REPAIRS MADE DATE/INITIAL
	204	SQ YD/SLAB			
	402	LIN FT			
	406	MAN-HOURS			
	510	MAN-HOURS			
	610	MAN-HOURS			
	612	LIN FT			
	800	LIN FT			
	802	LIN FT			
	804	LIN FT			
	806	SQ FT			
	808	LIN FT			
	810	EACH			
	812	MAN-HOURS			
	814	MAN-HOURS			
	816	NO OF PILES			
	818	MAN-HOURS			
	820	MAN-HOURS			
	822	GAL PAINT			
	824	GAL PAINT			
	830	MAN-HOURS			
	912	MAN-HOURS			

COMMENTS: UNDER CONTRACT FOR WIDENING
BRIDGE IS IN GOOD CONDITION ✓
MINOR SPALL ON TOP OF BACK WALL ABUT #1

BACK WALL BEARINGS SHIFTED APPROX 1"
ABUT #1 RUBBER SEAL TORN ABUT #1

Substructure : GOOD
Superstructure : GOOD
Deck : GOOD

PRIORITY CODES:
A = Repair Requiring Immediate Action
B = Repair Requiring Scheduling
c = Preventative Maintenance

Upon repair of any of the noted deficiencies, please complete this form, and return to me for further processing.

James A. Lorren
Bridge Inspection Section

Page 1 of 3

Dist. No. 7

D.O.T. 441-Front
Rev. 10-81

BRIDGE PROJECT DATA SHEET

(X)Wid ( )Repl (X)New Loc

Project No. & County: IR-75-3(143) CT. 10 COBB

Location: I-75/I-285 North Interchange

LET UNDER 77 SPECS

	SITE DESIGNATION	DESIGN LOAD	Proj. Manager: John J. Harte -Consultant DESCRIPTION HWC	900	Cur	SKCur	SKTan	Metal	LGTH
r No 1	Ramp H/I-75,I-285 Inter	HS20	PSCS B/160'-160'-140'-141.4'-150.4'-152'-153.2'-156'-156'-161'-125'/43.5'B/CBTs, HP	X	X				1655'
r no 2	Ramp G/I-285 CD WBL	HS20	PTCB/154.5/39.5'B/REAbuts, HP		X	X			154.5
r No 3	Ramp D/RampH	HS20	PTCB/258.5'/31.5'B/C Abuts, HP	X	X				258.5
r No 4	Ramp J/Ramp P	HS20	PSC/35/30'B under Tunnel/HP& Spread FTG 610' Long Tunnel with PSC Beams Supporting Roof, Conc Frame for Slab & Sides.	X	X				610'
r No 5	Widen I-285 CD EBL/ Rottenwoood CK 067-00407-02035C	HS20	Widen W/ 3 @ 60/44.5B/CBTs, HP Widen 8.125' Lt., 7.125' Rt., 31' Exist. to Remain	X					180'
r No 6	Widen I-285 EBL/ Rottenwood CK 067-00407-020.41C	HS20 ✓	Widen CW, PG/93-117-93/90.2B/D-I-P Caisson Piers, HP Widen 43.3' Out, Retain 48.3' Exist			X			303'

CONTRACTOR: Blythe Industries, Inc. & Crowder Construction Company 2911 N. Graham Street Charlotte, N. C. 28206	ENGINEER: Marietta ,GA. D. L. Davis, T. E. IV

BID PRICE TOTAL PROJECT: $ 17,986,651.25
DATE OF LETTING: November 12, 1982
DATE PROJECT BEGAN:
DATA ON BRIDGE INSPECTION:

BID PRICE BRIDGE: $ 7,161,621.90
DATE CONSTRUCTION AUTH: January 3, 1983
TIME LIMIT: July 1, 1985 Comp Date

FOR FIELD DIV. NOTATION AND FOLLOW-UP:

- ☐ Bridge Geometry Computer-Processed?
- ☐ All TP, Load Test Data Submitted?
- ☐ "As-Built" Found. Data DOT 499 Submitted?
- ☐ Opening to Traffic Reported to SBE?
- ☐ All Noted Inspection Items Completed?
- ☐ "As-Built" Vert. Clear. Submitted?
- ☐ Bench Mark Elev. & Location Submitted?
- ☐ Yr. Built Reported to SBE for Inventory?

DISTRIBUTION: 8

- ☐ SBE
- ☐ ASBE-Adm
- ☐ Const (3 Copies)
- ☑ Maintenance
- ☐ RPT
- ☐ JP
- ☐ FHWA (Bridge Engr)

ORIGINAL TO FIELD

Maint. Acceptance
Final Acceptance

D.O.T. 441-Front
Rev. 10-81

Dist. No. 7

BRIDGE PROJECT DATA SHEET

( )Wid ( )Repl ( )New Loc

Project No. & County: IR-75-3(143) CT 10 COBB

Location: I-75/I-285 Interchange in N. Metro Atlanta

LET UNDER 77 SPECS

	SITE DESIGNATION	DESIGN LOAD	Proj. Manager: John Harte - Consultant HWC DESCRIPTION	900	Cur	SKCur	SKTan	Metal	LGTH
r No 7	Widen I-285 CD WBL/ Rottenwood CK 067-00407-020.43C	HS20	Widen W/ 5 @ 50'/Varies B/CBTs, HP Widen 6.125 Rt., 12.125 Lt, Remaining Existing Varies.				X		250'
r No 8	Widen I-285 CDWBL/ Ramp B	HS20	Widen W/38', 42', 28'/43.5B/CBTs Widen 10.2' Lt. and Rt., Retain 24.9'Exist			X			108'
r No 9	Widen I-285 CDWBL/ I-75 067-00407-020.18C	HS20	Widen W/57.75, 70, 82, 36/67.5B/CBts Widen 8.4 Rt & 14.3'Lt. Retain 46.5' Exist	X					245.7
r No10	Widen Ramp V/I-285 CDEBL	HS20	Wid W/43, 59.5, 32.5/31.5B/CBts Widen 6.4'Lt, 8.4'Rt, Ratain 18.5'Exist	X	X				135'
r No11	Widen I-285 WBL/US 41 067-00407-019.51C	HS20	Wid W/41, 2 @ 82, 38/ 75.9'B/CBts Widen 13.8' Out, Retain 63.5' Exist			X			243'

CONTRACTOR:	ENGINEER: ,GA.

BID PRICE TOTAL PROJECT: $
DATE OF LETTING:
DATE PROJECT BEGAN:
DATA ON BRIDGE INSPECTION:

BID PRICE BRIDGE: $
DATE CONSTRUCTION AUTH:
TIME LIMIT:

FOR FIELD DIV. NOTATION AND FOLLOW-UP:

- ☐ Bridge Geometry Computer-Processed?
- ☐ All TP, Load Test Data Submitted?
- ☐ "As-Built" Found. Data DOT 499 Submitted?
- ☐ Opening to Traffic Reported to SBE?
- ☐ All Noted Inspection Items Completed?
- ☐ "As-Built" Vert. Clear. Submitted?
- ☐ Bench Mark Elev. & Location Submitted?
- ☐ Yr. Built Reported to SBE for Inventory?

DISTRIBUTION:

- ☐ SBE
- ☐ ASBE-Adm
- ☐ Const (3 Copies)
- ☑ Maintenance
- ☐
- ☐
- ☐ FHWA (Bridge Engr)

ORIGINAL TO FIELD

Maint. Acceptance
Final Acceptance

SPECIAL PROVISIONS

SP 500- Conc Str (Rubbed Finish)
SP 500 - Conc Str (Falsework)
SP 504 - 24 HR Accel Str Conc
SS 442 & 833 - Joint Fillers & Sealers
SS 507 - PSC Br Members
SP 680 - Highway Lighting
SP - Waterproofing Membrane
SP 507 - Prestressing Cast-In-Place Seg. Const
SP 524 - Drilled Caissons
SP 500 - Conc Str (Pot Bearings)

D.O.T. 441-Front
Rev. 1-74

BRIDGE PROJECT DATA SHEET

Bridge Inventory ID No. 067-407
( )Wid ( )Repl (x)New Loc

020.04C
067-00407-020.26C
020.17C

JP
JC
LY

Project No. & County: I-IR-285-1 (135) 86 COBB

Location: Interstate 285, Atlanta Circumferential, I 75 to Rottenwood Cr.

LET UNDER 72 SPECS

	SITE DESIGNATION	W B	HJL DESCRIPTION HS 20	90°	Cur	SKCur	SKTan	Metal	LGTH
1L,1R	I 285/Ramp D (2)	P,C,D,S	Slab, CPG/20,24½-123-24½,20/55½B/CBts, HP (Ea.)				X		212'
			1L & 1R Superstruct: Cantilever Type Const.						
2L,2R	I 285/I 75 (2)	P,C,D,S	CW,PG/75-1/3,93-93,60-2/3/55½B/CBts,HP (Ea.)			X			322'
3L,3R	I 285/Ramp B (2)	P,C,D,S,A	Slab,CPG/20,41½-207-41½,20/55½B/CBts,HP (Ea.)				X	X	330'
			3L,3R Superstruct: Cantilever type Const.						
4L,4R	I 285/Rottenwood Cr. (2)	P,C,D,S	CW,PG/93-117,93/55½B/D-I-P Caisson Piers, HP (Ea.)			X			303'
	067-00407-02041C								
	105 501.08								
	106 511		Spec. Prov: Bridge Deck Jt. Seals						
	109 520		Spec. Prov: Protect. Platforms						
	206 535		Spec. Prov: 544 Deck Drain System						
	442,833 851		Spec. Prov: Drilled-in-Place Caisson Piers						
	500,836 870		Spec. Prov.: Mod. of Spec. Prov. D-I-P Caisson Piers						
	501.03.A.4 886								
	501.05								
	501.06								

CONTRACTOR: Marietta, Ga.	ENGINEER: Atlanta ,GA.
C. W. Matthews Contracting Co., Inc.	Larry D. Cameron, ADE

BID PRICE TOTAL PROJECT: $ 8,197,749.34
BID PRICE BRIDGE: $4,100,844.90
DATE OF LETTING: 2-25-77
DATE CONSTRUCTION AUTH: 3-23-77
DATE PROJECT BEGAN:
TIME LIMIT: 8-15-78 Comp. Date
DATA ON BRIDGE DIV. INSPECTION: Partial Acceptance 28 Apr '81. Excludes Shoulder & Slopes in area of Sta 636+40 WBL outside Final Acceptance: 6 Oct '80.

FOR FIELD DIV. NOTATION AND FOLLOW-UP:
- ☐ Bridge Geometry Computer-Processed?
- ☐ All TP, Load Test Data Submitted?
- ☐ "As-Built" Found. Data DOT 499 Submitted?
- ☐ Opening to Traffic Reported to SHBE?
- ☐ All Noted Inspection Items Completed?
- ☐ "As-Built" Vert. Clear. Submitted?
- ☐ Bench Mark Elev. & Location Submitted?
- ☐ Yr. Built Reported to SHBE for Inventory?

DISTRIBUTION:
- ☐ SHBE
- ☑ ASHBE-Adm
- ☐ ASHBE-Const (3 Copies)
- ☐ Welding Consultant
- ☐ Inventory Control
- ☐ Maintenance
- ☐ FHWA (Bridge Engr)
- ☐ LAB (DAM)
- ☐ BJW

ORIGINAL TO FIELD

Maint. Acceptance
Final Acceptance

MAINTENANCE MANAGEMENT SYSTEM
BRIDGE COST REPORT
JULY 1, 1988 - JUNE 30, 1989

9-Aug-1989
Page 305

BRIDGE	CTY	ROUTE	BMP	EMP
06701060	067	040700	20.3	20.3

ACT	ACTIVITY NAME	AMOUNT	UNIT	DATE	DAILY COST
804	ARMD BRDGE JNT RECONSTRUCT	23.0	LIN FEET	6 5 89	$2318.00

TOTAL REPAIR COSTS FOR MAINTENANCE OF BRIDGE # 06701060 DURING FY 1988 - 1989 $2318.00

067-00407-020.41C

User Name: CLP
Reference: 067-0106-0 MFILES/067-0106-0 MFILES-01-024
Date/Time: 1/19/2011 12:45:41 PM
Page: 24

BRIDGE	CTY	ROUTE	BMP	EMP
06701060	067	040700	20.3	20.4

ACT	ACTIVITY NAME	AMOUNT	UNIT	DATE			DAILY COST
804	ARMD BRDGE JNT RECONSTRUCT	154.0	LIN FEET	4	24	88	$5042.00
804	ARMD BRDGE JNT RECONSTRUCT	0.0	LIN FEET	9	3	87	$1007.00

TOTAL REPAIR COSTS FOR MAINTENANCE OF BRIDGE # 06701060 DURING FY 1987 - 1988 $6049.00

067-00407-020.41C

User Name: CLP
Reference: 067-0106-0 MFILES/067-0106-0 MFILES-01-025
Date/Time: 1/19/2011 12:45:41 PM
Page: 25

I-285-1(84)86 COBB COUNTY
I-285 OVER ROTTENWOOD CREEK

067-0106.0

VELOCITY DISTRIBUTION
EXISTING 303 FT BRIDGE

FULL VALLEY SECTION
100 YEAR 8000

SUB AREA	AREA	CONVEYANCE	TOP WIDTH	DISCHARGE	VELOCITY	Y1
1	1997	95800	299	1839	0.92	6.68
2	983	228927	55	4394	4.47	17.87
3	1619	92075	187	1767	1.09	8.66
	4599	416802	541	8000		
		S**1/2=	0.0192	S=	0.00037	

FULL VALLEY SECTION
500 YEAR 13600

SUB AREA	AREA	CONVEYANCE	TOP WIDTH	DISCHARGE	VELOCITY	Y1
1	3395	226495	309	4148	1.22	10.99
2	1236	335276	55	6140	4.97	22.47
3	2522	180837	206	3312	1.31	12.24
	7153	742608	570	13600		
		S**1/2=	0.0183	S=	0.00034	

WSPRO FEDERAL HIGHWAY ADMINISTRATION - U. S. GEOLOGICAL SURVEY
V063087 MODEL FOR WATER-SURFACE PROFILE COMPUTATIONS

I-285-1(84)86 COBB COUNTY INPUT FILE 0260A.CMT
I-285 OVER ROTTENWOOD CREEK (MAINLINE)
EXISTING 303 FT BRIDGE
CROSS-SECTION PROPERTIES: ISEQ = 2; SECID = FULLV; SRD = 1000.

WSEL	SA#	AREA	K	TOPW	WETP	ALPH	LEW	REW	QCR
	1	1997.	95800.	299.	299.				29279.
	2	983.	228927.	55.	63.				23598.
	3	1619.	92075.	187.	188.				27010.
835.79		4599.	416801.	541.	551.	3.77	64386.	64927.	39157.

WSEL	SA#	AREA	K	TOPW	WETP	ALPH	LEW	REW	QCR
	1	3395.	226495.	309.	311.				63849.
	2	1236.	335276.	55.	63.				33267.
	3	2522.	180837.	206.	207.				50123.
840.39		7153.	742609.	570.	581.	3.32	64376.	64946.	78913.

WSEL	SA#	AREA	K	TOPW	WETP	ALPH	LEW	REW	QCR
	1	3395.	226497.	309.	311.				63849.
	2	1236.	335278.	55.	63.				33267.
	3	2522.	180839.	206.	207.				50124.
840.39		7154.	742614.	570.	581.	3.32	64376.	64946.	78913.

I-285-1(84)86 COBB COUNTY
I-285 OVER ROTTENWOOD CREEK

VELOCITY DISTRIBUTION
EXISTING 303 FT BRIDGE

BRIDGE SECTION
100 YEAR 8000

SUB AREA	AREA	CONVEYANCE	TOP WIDTH	DISCHARGE	VELOCITY	Y1
1	249	11283	39	357	1.43	6.38
2	1001	227367	55	7195	7.19	18.20
3	284	14156	38	448	1.58	7.47
	1534	252806	132	8000		

S**1/2= 0.0316 S= 0.00100

BRIDGE SECTION
500 YEAR 13600

SUB AREA	AREA	CONVEYANCE	TOP WIDTH	DISCHARGE	VELOCITY	Y1
1	453	25665	50	908	2.01	9.06
2	1251	329768	55	11671	9.33	22.75
3	478	28830	48	1020	2.13	9.96
	2182	384263	153	13600		

S**1/2= 0.0354 S= 0.00125

WSPRO
V063087

FEDERAL HIGHWAY ADMINISTRATION - U. S. GEOLOGICAL SURVEY
MODEL FOR WATER-SURFACE PROFILE COMPUTATIONS

I-285-1(84)86 COBB COUNTY INPUT FILE 0260A.CMT
I-285 OVER ROTTENWOOD CREEK (MAINLINE)
EXISTING 303 FT BRIDGE
CROSS-SECTION PROPERTIES: ISEQ = 3; SECID = EXBRG; SRD = 1000.

WSEL	SA#	AREA	K	TOPW	WETP	ALPH	LEW	REW	QCR
	1	249.	11283.	39.	41.				3567.
	2	1001.	227367.	55.	67.				24242.
	3	284.	14156.	38.	40.				4416.
835.75		1534.	252806.	132.	147.	1.72	64646.	64778.	22658.

WSEL	SA#	AREA	K	TOPW	WETP	ALPH	LEW	REW	QCR
	1	453.	25665.	50.	53.				7701.
	2	1251.	329768.	55.	67.				33876.
	3	478.	28830.	48.	51.				8609.
840.30		2182.	384263.	153.	170.	1.94	64635.	64788.	33616.

I-285-1(84)86 COBB COUNTY
I-285 OVER ROTTENWOOD CREEK

VELOCITY DISTRIBUTION
EXISTING 303 FT BRIDGE

APPROACH SECTION
100 YEAR 8000

SUB AREA	AREA	CONVEYANCE	TOP WIDTH	DISCHARGE	VELOCITY	Y1
1	1600	66741	296	1573	0.98	5.41
2	910	201218	55	4744	5.21	16.55
3	1373	71373	182	1683	1.23	7.54
	3883	339332	533	8000		

S**1/2= 0.0236 S= 0.00056

APPROACH SECTION
500 YEAR 13600

SUB AREA	AREA	CONVEYANCE	TOP WIDTH	DISCHARGE	VELOCITY	Y1
1	3050	190523	307	3955	1.30	9.93
2	1175	307857	55	6391	5.44	21.36
3	2294	156751	201	3254	1.42	11.41
	6519	655131	563	13600		

S**1/2= 0.0208 S= 0.00043

WSPRO
V063087

FEDERAL HIGHWAY ADMINISTRATION - U. S. GEOLOGICAL SURVEY
MODEL FOR WATER-SURFACE PROFILE COMPUTATIONS

I-285-1(84)86 COBB COUNTY INPUT FILE 0260A.CMT
I-285 OVER ROTTENWOOD CREEK (MAINLINE)
EXISTING 303 FT BRIDGE
CROSS-SECTION PROPERTIES: ISEQ = 4; SECID = APPRO; SRD = 1418.

WSEL	SA#	AREA	K	TOPW	WETP	ALPH	LEW	REW	QCR
	1	1600.	66741.	296.	296.				21115.
	2	910.	201218.	55.	63.				21011.
	3	1373.	71373.	182.	183.				21406.
836.36		3883.	339332.	533.	542.	3.91	64389.	64922.	30067.

WSEL	SA#	AREA	K	TOPW	WETP	ALPH	LEW	REW	QCR
	1	3050.	190523.	307.	308.				54577.
	2	1175.	307857.	55.	63.				30808.
	3	2294.	156751.	201.	202.				43962.
841.17		6518.	655130.	563.	573.	3.42	64378.	64941.	68094.

```
T1          I-285-1(84)86 COBB COUNTY  INPUT FILE 0260A.CMT
T2          I-285 OVER ROTTENWOOD CREEK (MAINLINE)
T3          EXISTING 303 FT BRIDGE
*
Q           8000.0  13600.0
*
SK          0.000255  0.000255
*
XT    TEMP1 1000.0  0.00455
GR          64275.0 886.0  64390.0 834.0  64540.0 828.0  64685.0 826.0
GR          64690.0 818.0  64700.0 817.0  64730.0 816.0  64740.0 825.0
GR          64800.0 825.0  64900.0 829.0  65020.0 859.0  65050.0 885.0
*
XS     EXIT  697.0  *  *  *  0.00455
GT
N           0.110  0.040  0.110
SA          64685.0  64740.0
*
XS    FULLV 1000.0  *  *  *  0.00455
*
BR    EXBRG 1000.0  873.0
CD          3.0  115.0  2.0  883.0
GR          64554.0 873.0  64665.0 828.0  64685.0 826.0  64685.0 818.0
GR          64690.0 818.0  64700.0 817.0  64730.0 816.0  64740.0 825.0
GR          64755.0 825.0  64857.0 873.0  64554.0 873.0
PW 1        825.0 6.0  873.0 6.0
KD          *  *  *  64554.0  64857.0
*
AS    APPRO 1418.0  *  *  *  0.00455
*
HP  1 FULLV 835.79  4.60  840.39
HP  1 EXBRG 835.75  4.55  840.30
HP  1 APPRO 836.36  4.81  841.17
*
EX
ER
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WSPRO FEDERAL HIGHWAY ADMINISTRATION - U. S. GEOLOGICAL SURVEY
V063087 MODEL FOR WATER-SURFACE PROFILE COMPUTATIONS

I-285-1(84)86 COBB COUNTY INPUT FILE 0260A.CMT
I-285 OVER ROTTENWOOD CREEK (MAINLINE)
EXISTING 303 FT BRIDGE

XSID:CODE / SRD	SRDL / FLEN	LEW / REW	AREA / K	VHD / ALPH	HF / HO	EGL / ERR	CRWS / FR#	Q / VEL	WSEL
EXIT:XS	99999.	64383.	5315.	0.13	99.00	835.85	826.24	8000.	835.72
697.	99999.	64932.	500817.	3.63	99.00	9999.00	0.16	1.51	
FULLV:FV	303.	64386.	4600.	0.18	0.09	835.97	9999.00	8000.	835.79
1000.	303.	64927.	416931.	3.77	0.02	0.00	0.20	1.74	

<<<<<THE ABOVE RESULTS REFLECT "NORMAL" (UNCONSTRICTED) FLOW>>>>>

APPRO:AS	418.	64390.	3658.	0.29	0.20	836.23	9999.00	8000.	835.94
1418.	418.	64920.	316370.	3.95	0.06	0.00	0.29	2.19	

<<<<<THE ABOVE RESULTS REFLECT "NORMAL" (UNCONSTRICTED) FLOW>>>>>

<<<<<RESULTS REFLECTING THE CONSTRICTED FLOW FOLLOW>>>>>

XSID:CODE / SRD	SRDL / FLEN	LEW / REW	AREA / K	VHD / ALPH	HF / HO	EGL / ERR	CRWS / FR#	Q / VEL	WSEL
EXBRG:BR	303.	64646.	1534.	0.43	0.15	836.17	826.24	8000.	835.75
1000.	303.	64778.	252725.	1.01	0.17	0.00	0.27	5.22	

TYPE	PPCD	FLOW	C	P/A	LSEL	BLEN	XLAB	XRAB
3.	1.	1.	0.994	0.042	873.00	99999.	99999.	99999.

XSID:CODE / SRD	SRDL / FLEN	LEW / REW	AREA / K	VHD / ALPH	HF / HO	EGL / ERR	CRWS / FR#	Q / VEL	WSEL
APPRO:AS	303.	64389.	3884.	0.26	0.23	836.62	829.52	8000.	836.36
1418.	314.	64922.	339355.	3.91	0.21	0.00	0.27	2.06	

M(G)	M(K)	KQ	XLKQ	XRKQ	OTEL
0.751	0.076	313383.	64554.	64857.	836.19

<<<<<END OF BRIDGE COMPUTATIONS>>>>>

WSPRO FEDERAL HIGHWAY ADMINISTRATION - U. S. GEOLOGICAL SURVEY
V063087 MODEL FOR WATER-SURFACE PROFILE COMPUTATIONS

I-285-1(84)86 COBB COUNTY INPUT FILE 0260A.CMT
I-285 OVER ROTTENWOOD CREEK (MAINLINE)
EXISTING 303 FT BRIDGE

XSID:CODE	SRDL	LEW	AREA	VHD	HF	EGL	CRWS	Q	WSEL
SRD	FLEN	REW	K	ALPH	HO	ERR	FR#	VEL	
EXIT:XS	99999.	64373.	7908.	0.15	99.00	840.47	829.11	13600.	840.33
697.	99999.	64951.	851451.	3.22	99.00	9999.00	0.15	1.72	
FULLV:FV	303.	64376.	7156.	0.19	0.09	840.58	9999.00	13600.	840.39
1000.	303.	64946.	743000.	3.32	0.02	0.00	0.17	1.90	

<<<<<THE ABOVE RESULTS REFLECT "NORMAL" (UNCONSTRICTED) FLOW>>>>>

APPRO:AS	418.	64380.	6158.	0.26	0.17	840.79	9999.00	13600.	840.53
1418.	418.	64939.	607288.	3.48	0.04	0.00	0.22	2.21	

<<<<<THE ABOVE RESULTS REFLECT "NORMAL" (UNCONSTRICTED) FLOW>>>>>

<<<<<RESULTS REFLECTING THE CONSTRICTED FLOW FOLLOW>>>>>

XSID:CODE	SRDL	LEW	AREA	VHD	HF	EGL	CRWS	Q	WSEL
SRD	FLEN	REW	K	ALPH	HO	ERR	FR#	VEL	
EXBRG:BR	303.	64635.	2182.	0.61	0.17	840.91	830.42	13600.	840.30
1000.	303.	64788.	384294.	1.01	0.27	0.00	0.29	6.23	

TYPE	PPCD	FLOW	C	P/A	LSEL	BLEN	XLAB	XRAB
3.	1.	1.	0.993	0.042	873.00	99999.	99999.	99999.

XSID:CODE	SRDL	LEW	AREA	VHD	HF	EGL	CRWS	Q	WSEL
SRD	FLEN	REW	K	ALPH	HO	ERR	FR#	VEL	
APPRO:AS	303.	64378.	6516.	0.23	0.24	841.40	832.39	13600.	841.17
1418.	321.	64941.	654880.	3.42	0.25	0.00	0.20	2.09	

M(G)	M(K)	KQ	XLKQ	XRKQ	OTEL
0.726	0.161	549418.	64554.	64857.	841.04

<<<<<END OF BRIDGE COMPUTATIONS>>>>>

ER

BRIDGE SCOUR EVALUATION

HYDRAULIC COMMENTS

067-0106-0

BRIDGE ID NUMBER	: 067-00407-020.41C
OLD PROJECT NUMBER	: I-285-1(84)86
COUNTY	: COBB
SITE LOCATION	: I-285 OVER ROTTENWOOD CREEK (BRIDGE #7) 4
HYDRAULIC STUDY (Y or N)	: NO
STORM FREQUENCY	: 500 YEAR
FLOODSTAGE ELEVATION AT BRIDGE	: 840.39

M - Minimum Tip BFI
E - Estimated Tip BFI
D - Data or Test Pile
P - Plans
A - As-Built Data

Cs - CONCRETE BENT, Spread Footing
Cp - CONCRETE BENT, Pile Footing
P1 - PILE BENT

1 FROM BRIDGE PLANS
2 FROM BRIDGE FOUNDATION INVESTIGATION
3 FROM QUADRANGLE MAP
4 FROM USGS FLOOD-FREQUENCY EQUATIONS
5 FROM GAGE DATA
6 FROM SOIL SIZE TABLE
7 FROM HYDRAULIC STUDY / CROSS SECTION PROPERTIES
8 FROM FIELD SURVEY NOTES
9 FROM AS-BUILT DATA / CONSTRUCTION FIELD BOOKS

DATE
06/18/92

BRIDGE RATING
5

BENT #	BENT LOCATION: Mc,Lt, or Rt	PILE/C'LMN WIDTH (FT) [7]	FLOW UPSTREAM: MAIN CHANNEL (CFS) Q1 Mc [7]	CHANNEL FLOW: BRIDGE OPENING (CFS) Q2 Mc [7]	DEPTH FLOW @ BR OPENING: MAIN CHANNEL (FT) Y1 [7]	CONTR SCOUR: MAIN CHANNEL (FT) YS	MEDIAN SOIL SIZE: D50 [6]	FLOW BRIDGE: LT OVERBANK Q LOB [7]	ABUT SETBACK: LT OVERBANK W [1]	DEPTH FLOW: LT OVERBANK Y1 Lt [7]	CONTR SCOUR: LT OVERBANK YS	FLOW BRIDGE: RT OVERBANK Q2 ROB [7]	ABUT SETBACK: RT OVERBANK W [1]	DEPTH FLOW: RT OVERBANK Y1 Rt [7]	CONTR SCOUR: RT OVERBANK YS	DEPTH OF FLOW: Y1	VEL (FT/S) V [7]	K1	K2	LOCAL SCOUR: YS + 10% (FT) YS max
TOS	Lt	0.00	0.00	0.00	0.00	*****	0.00123	908.00	20.00	9.06	13.89	0.00	0.00	0.00	*****	12.39	2.01	1.1	1.0	0.00
2	Lt	5.00	0.00	0.00	0.00	*****	0.00123	908.00	20.00	9.06	13.89	0.00	0.00	0.00	*****	14.39	2.01	1.1	1.0	6.32
3	Rt	5.00	0.00	0.00	0.00	*****	0.00123	0.00	0.00	0.00	*****	1020.00	15.00	9.96	22.48	15.39	2.13	1.1	1.0	6.54
TOS	Rt	0.00	0.00	0.00	0.00	*****	0.00123	0.00	0.00	0.00	*****	1020.00	15.00	9.96	22.48	15.39	2.13	1.1	1.0	0.00

BENT NUMBER: #	GROUND ELEV [2]	BENT TYPE: Cs,Cp, or P1 [1]	PILE TIP ELEVATION (FT) NGVD [1]	FOOTING BOTTOM ELEVATION (FT) NGVD [1]	TOTAL SCOUR (FT) G + L	ELEVATION SCR LINE (FT) NGVD	SCR LINE-PILE TIP ELEVATION: (FT)	SCR LINE-FOOT BOT ELEVATION: (FT)
TOS	828.00	-	0.00	0.00	13.89	814.11	0.00	0.00
2	826.00	Cp	800.00	0.00	20.21	805.79	5.79	0.00
3	825.00	Cp	800.00	0.00	29.02	795.98	-4.02	0.00
TOS	825.00	-	0.00	0.00	22.48	802.52	0.00	0.00

Deck Elev.

885.78
883.42
880.30
877.71

NOTE: BENTS FALL BEFORE END OF TOE THEREFORE NO SCOUR ACTUALLY AT BENTS

GEOLOGIC COMMENTS

Foundation elements are founded on rock and should not be ~~subject~~ subject to undermining by scour.

Cindy McTerry

BRIDGE COMMENTS

Based on the piles being founded on rock, this bridge should be rated a 5.

Warren Bailey

Carol V. Tiles Jr
7/31/92