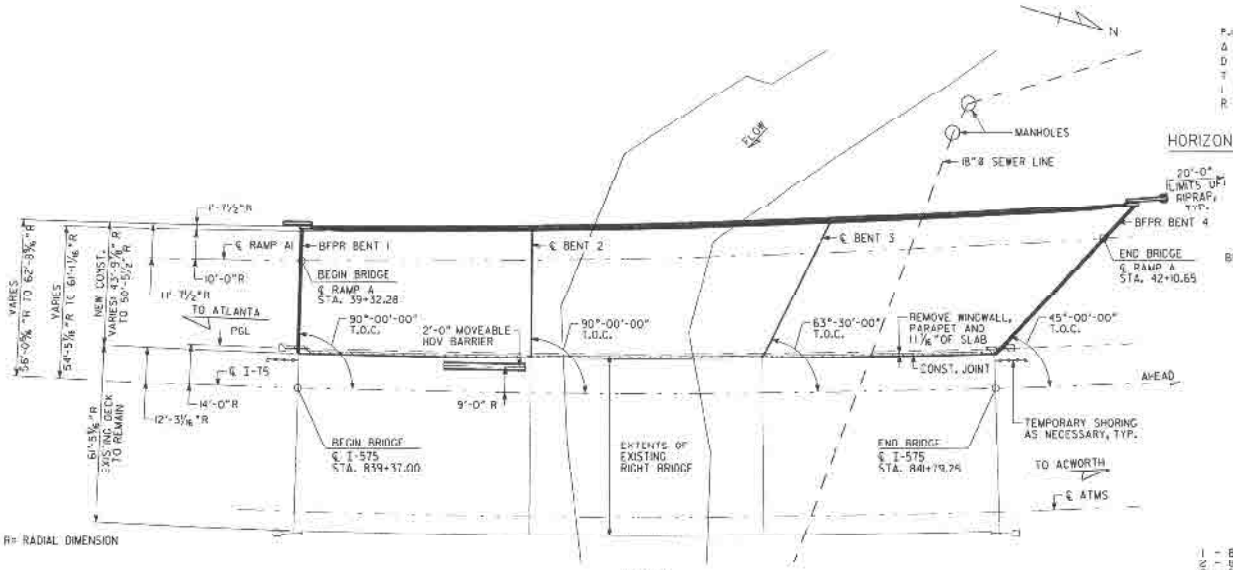
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	NHOOO 0073 03(242)		

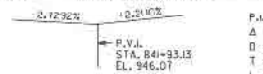


R= RADIAL DIMENSION

PLAN
SCALE:1"= 20'-0"

P.I. STA. = 844+76.59
Δ = 20°-18'-24"
D = 1°-28'-36"
T = 694.86 FT
L = 1375.14 FT
R = 3880.00 FT

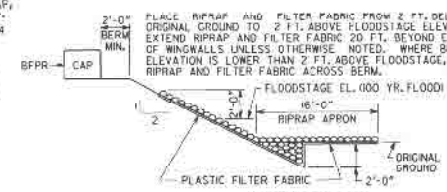
℄ I-75
HORIZONTAL CURVE DATA



I-75
GRADE DATA

P.I. STA. = 42+12.41
Δ = 12°-55'-47.5"
D = 1°-29'-47.55"
T = 433.83 FT
L = 861.98 FT
R = 3826.55 FT

℄ RAMP A1
HORIZONTAL CURVE DATA



PLACE RIPRAP AND FILTER FABRIC FROM 2 FT. BELOW ORIGINAL GROUND TO 2 FT. ABOVE FLOODSTAGE ELEVATION. EXTEND RIPRAP AND FILTER FABRIC 20 FT. BEYOND END OF WINGWALLS UNLESS OTHERWISE NOTED. WHERE BERM ELEVATION IS LOWER THAN 2 FT. ABOVE FLOODSTAGE, EXTEND RIPRAP AND FILTER FABRIC ACROSS BERM.

RIPRAP DETAIL
NO SCALE

DESIGN DATA

SPECIFICATIONS ---------- AASHTO 17TH EDITION, 2002
(DESIGNED FOR SEISMIC PERFORMANCE CATEGORY B)
TYPICAL HS20-44 AND/OR MILITARY LOADING --- IMPACT ALLOWED
FUTURE PAVING ALLOWANCE ---------- 30 LBS PER SQ FT

WIDENED BRIDGE CONSISTS OF

1 - 80'-9" W BEAM COMPOSITE SIMPLE SPAN ---------- SPECIAL DESIGN
2 - 80'-9" PLATE GIRDER COMPOSITE SIMPLE SPANS (TRAPEZOID) --- SPECIAL DESIGN
2 - PILE END BENTS ---------- SPECIAL DESIGN
2 - CONCRETE INTERMEDIATE BENTS ---------- SPECIAL DESIGN

24" TYPE I RIP RAP

EXISTING UTILITIES ON BRIDGE

4 - 4 INCH DIAMETER ATMS ----- GEORGIA DEPARTMENT OF TRANSPORTATION

EXISTING UTILITIES UNDER BRIDGE

18" STEEL SANITARY SEWER

DRAINAGE DATA

DRAINAGE AREA ---------- 11.0 SQ MI

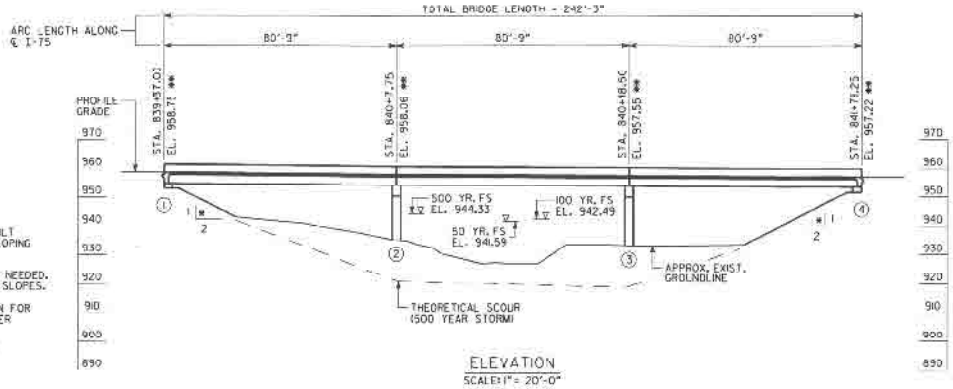
FLOOD FREQUENCY	DISCHARGE THRU BRIDGE	MEAN VELOCITY	AREA OF OPENING UNDER FLOODSTAGE	BACKWATER
50 YEAR	6003 CFS	4.34 FPS	1382 SQ FT	0.49 FT
100 YEAR	6889 CFS	4.46 FPS	1544 SQ FT	0.37 FT
500 YEAR	8519 CFS	4.53 FPS	1881 SQ FT	0.08 FT

BERM ELEVATIONS (*)		
BENT	LEFT	RIGHT
1	954.2	952.56
4	948.49	950.31

(*) NOTE: FOR BRIDGE ENDPOLL STAKING PURPOSES ONLY.

NOTES:

1. * SLOPE NORMAL TO END BENTS.
2. ** STATIONS ARE ALONG ℄ I-75 AT THE INTERSECTION OF ℄ I-75 AND BFPR OR ℄ BENT. ELEVATIONS ARE ALONG PGL.
3. END BENT PILES NOT SHOWN.
4. THE PROPOSED BRIDGE DECK IS TO BE BUILT ON A CONSTANT CROSS SLOPE OF 4%, SLOPING DOWN TO THE LEFT.
5. REPAIR AND REPLACE EXISTING RIPRAP AS NEEDED. EXTEND APRON ACROSS TOE OF EXISTING SLOPES.
6. THE MINIMUM BOTTOM OF BEAM ELEVATION FOR THE PROPOSED BRIDGE SHALL BE NO LOWER THAN ELEVATION 943.59
7. THE PROPOSED BRIDGE BOTTOM OF BEAM ELEVATION IS 950.71



ELEVATION
SCALE:1"= 20'-0"

THEORETICAL SCOUR DEPTHS (FT)						
	100 YEAR STORM			500 YEAR STORM		
BENT LOCATION	GENERAL	LOCAL	TOTAL	GENERAL	LOCAL	TOTAL
BENT 2	1.0	13.0	14.0	1.0	13.3	14.3
BENT 3	3.4	13.0	16.4	1.0	13.3	14.3

EXISTING RIGHT BRIDGE SERIAL NO. 067-0083-0
EXISTING RIGHT BRIDGE LO. NO. OGT 00400 270.25N
PROJECT P.I. NO. 714130

BRIDGE NO. 31

DESIGN BY	DATE
CHECKED BY	DATE
SUPERVISOR	DATE
APPROVED	DATE

REVISIONS

NO.	DATE	DESCRIPTION	DRG	CHK	SUPV	APPR
4	2/20/03	Progress Prints for Utilities	ALM	JDT	GLE	SJL
3	3/25/03	90% SUBMISSION	ALM	JDT	GLE	SJL
2	10/30/02	PLOT FOR COBB TRANSPORTATION	ALM			
1		CONCEPTUAL PLOT				

GTP Georgia Transportation Partners

NORTHWEST I-75/I-575 CORRIDOR

DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA

JBT J.B. Trimble, Inc.
2550 Heritage Ct. SE Suite 250
Atlanta GA 30339-3062
(770) 952-1022

BRIDGE SHEET
1 OF 9

I-75 / I-575 NORTHWEST CORRIDOR

I-75 REVERSIBLE OVER NOONDAY CREEK
PLAN AND ELEVATION

COBB COUNTY NHOOO-0073-03(242)

DRAWING NO. 35-194