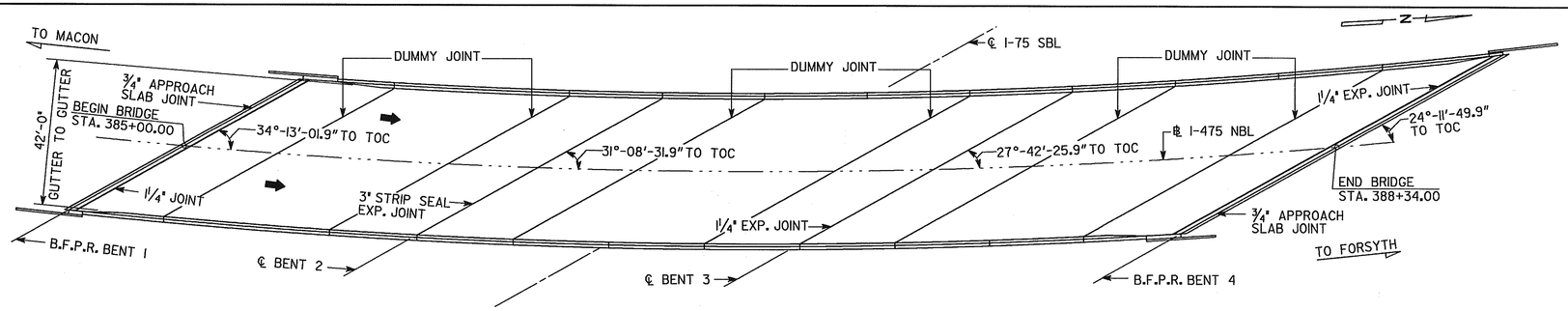
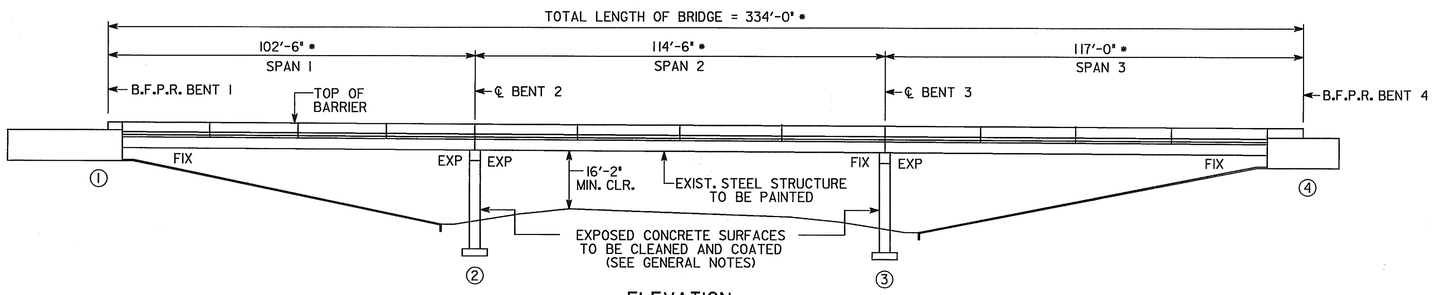
| STATE | PROJECT NUMBER | SHEET NO. | TOTAL SHEETS |
|---|---|---|---|
| GA. | NHS-M002-00 (425) | 3 | 8 |

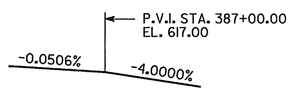



• MEASURED ALONG BASELINE I-475 NBL

## PLAN




## ELEVATION




## GRADE DATA

(FROM EXISTING BRIDGE PLANS)

## I-475 NBL CURVE DATA

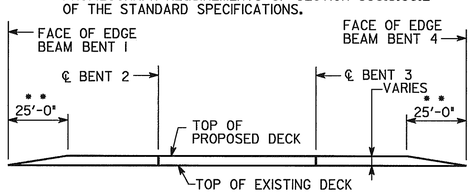
(FROM EXISTING BRIDGE PLANS)

PI= STA. 389+88.37
Δ = 39°-37'-27"LT.
D = 03°-00'
T = 688.05'
SE = 0.08 FT/FT

## WORK CONSISTS OF

1. REMOVAL OF THE EXISTING CONCRETE DECK TO 1/2" BELOW THE BOTTOM OF THE TOP MAT OF REINFORCING STEEL AND REPLACEMENT WITH A NEW CONCRETE OVERLAY. ALL EXISTING DECK REINFORCING STEEL EXPOSED DURING DECK REMOVAL SHALL REMAIN IN PLACE.
2. REPLACEMENT OF EXISTING EDGE BEAMS.
3. RECONSTRUCTION OF BACKWALL HEADERS.
4. RESEAL EXPANSION, DUMMY AND APPROACH SLAB JOINTS.
5. REPLACE EXPANSION JOINT AT BENT 2.
6. PAINT ALL EXISTING STRUCTURAL STEEL.
7. CLEAN AND COAT EXPOSED CONCRETE SURFACES OF BENTS 2 & 3.

• • THESE TRANSITION ZONES SHALL BE EXEMPT FROM THE PROFILOGRAPH REQUIREMENTS OF SECTION 500.3.06.E OF THE STANDARD SPECIFICATIONS.




## LONGITUDINAL SECTION

(END BRIDGE TRANSITION DETAILS)
(NO SCALE)

NOTE :
REINFORCING STEEL MINIMUM CLEARANCE DOES NOT APPLY IN TRANSITION ZONES.

## DESIGN DATA

SPECIFICATIONS ..... AASHTO 1996 WITH 1997 THROUGH 2002 INTERIMS (DESIGNED FOR SEISMIC PERFORMANCE CATEGORY A)

TYPICAL HS20-44 AND/OR MILITARY LOADING ..... IMPACT ALLOWED

24 HOUR ACCELERATED STRENGTH CONCRETE..... $f'_c$ = 3,500 PSI

REINFORCEMENT STEEL ..... GRADE 60, FY = 60,000 PSI

## SUMMARY OF QUANTITIES

| PAY ITEM NUMBER | QUANTITY | UNIT | PAY ITEM |
|---|---|---|---|
| 443-1000 | 1 | EA | ELASTOMERIC PROFILE BRIDGE JOINT SEALS, BR NO-1, BENT NO-2 |
| 449-1620 | 159 | LF | LOW-DENSITY, CLOSED-CELL, X-LINKED, ETHYLENE VINYL ACETATE, POLYETHYLENE COPOLYMER, NITROGEN-BLOWN SEAL, BR NO-1, BENT NO-1 |
| 449-1620 | 92 | LF | LOW-DENSITY, CLOSED-CELL, X-LINKED, ETHYLENE VINYL ACETATE, POLYETHYLENE COPOLYMER, NITROGEN-BLOWN SEAL, BR NO-1, BENT NO-3 |
| 449-1620 | 216 | LF | LOW-DENSITY, CLOSED-CELL, X-LINKED, ETHYLENE VINYL ACETATE, POLYETHYLENE COPOLYMER, NITROGEN-BLOWN SEAL, BR NO-1, BENT NO-4 |
| 500-0100 | 1484 | SY | GROOVED CONCRETE |
| 504-0600 | 37 | CY | TWENTY-FOUR HOUR ACCELERATED STRENGTH CONC |
| 511-3000 | LUMP | LS | SUPERSTR REINF STEEL, BR NO-1 (4600) |
| △1 519-0400 | 1484 | SY | CONCRETE OVERLAY, PORTLAND CEMENT, VARB THK |
| △1 521-1000 | 90 | SF | PATCHING CONCRETE BRIDGE DECK |
| △1 528-0750 | 1700 | LF | EPOXY SEALING OF CONCRETE CRACKS |
| 535-1105 | LUMP | | PAINT EXIST STEEL STRUCTURE, BR ID - 207-00408D-014.95N |
| 540-1202 | LUMP | | REMOVAL OF PARTS OF EXISTING BR, BR NO - 1 |
| 654-1001 | 6 | EA | RAISED PVMT MARKERS TP 1 |
| 657-1054 | 334 | LF | PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, WHITE, TP PB |
| 657-3054 | 334 | LF | PREFORMED PLASTIC SKIP PVMT MKG, 5 IN, WHITE, TP PB |
| 657-6054 | 334 | LF | PREFORMED PLASTIC SOLID PVMT MKG, 5 IN, YELLOW, TP PB |

EXISTING BRIDGE SERIAL NO. 207-0055-0
EXISTING BRIDGE ID NO. 207-00408D-014.95N
PROJECT PI NO. M002425

## GENERAL NOTES

SPECIFICATIONS - GEORGIA STANDARD SPECIFICATIONS, 2001 EDITION, AS MODIFIED BY CONTRACT DOCUMENTS.

REINFORCING STEEL - ALL REINFORCING STEEL SHALL BE PLACED AND TIED IN ACCORDANCE WITH THE GEORGIA DOT SPECIFICATIONS. WELDING OF REINFORCING STEEL WILL NOT BE PERMITTED.

CHAMFER - ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4 INCH UNLESS OTHERWISE NOTED.

CONCRETE REMOVAL - SEE SPECIAL PROVISIONS.

CONCRETE OVERLAY - SEE SPECIAL PROVISION - SECTION 519 -"FAST TRACK BRIDGE DECK CONVENTIONAL CONCRETE OVERLAY".

PROTECTIVE PLATFORMS - PROTECTIVE PLATFORMS WILL BE REQUIRED AT THIS SITE, SEE SECTION 510 OF THE GEORGIA DOT SPECIFICATIONS. CONTRACTOR SHALL MAINTAIN A MINIMUM VERTICAL CLEARANCE OF 16'-2" ABOVE I-75.

TRAFFIC CONTROLS - SEE SPECIAL PROVISIONS AND MAINTENANCE OF TRAFFIC PLANS FOR TRAFFIC CONTROLS AND TRAFFIC CONTROLS PAYMENT.

EXISTING BRIDGE PLANS - PLANS FOR EXISTING BRIDGE MAY BE PURCHASED BY CONTACTING THE PLANS REPRODUCTION OFFICE AT (404) 656-5401. THE ORIGINAL BRIDGE WAS BUILT UNDER PROJECT NUMBER 175-2(27)170 AND WAS WIDENED UNDER PROJECT NUMBER ID-475-1(102).

DIMENSIONS AND ELEVATIONS - ALL DIMENSIONS AND ELEVATIONS SHALL BE VERIFIED IN THE FIELD BY THE CONTRACTOR PRIOR TO ORDERING MATERIALS OR BUILDING FORMS.

EPOXY RESIN ADHESIVE - EPOXY RESIN ADHESIVE TYPE II SHALL BE APPLIED TO ALL HARDENED CONCRETE SURFACES JUST PRIOR TO POURING THE CONCRETE FOR THE NEXT STAGE OF CONSTRUCTION, SEE SECTION 886 OF THE GEORGIA DOT SPECIFICATIONS. COST OF EPOXY ADHESIVE AND ITS APPLICATION SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED.

EXISTING REINFORCEMENT - EXISTING REINFORCEMENT TO BE UTILIZED IN NEW CONSTRUCTION SHALL BE BENT IN A MANNER TO PROVIDE THE MAXIMUM LAP POSSIBLE OR AS SHOWN ON THE PLANS. EXISTING REINFORCEMENT SHALL BE THOROUGHLY CLEANED OF CONCRETE SCALE AND RUST BEFORE BONDING INTO NEW CONSTRUCTION.

RIDING QUALITY - THE FINISHED BRIDGE DECK AND APPROACH SLABS SHALL MEET THE RIDE QUALITY REQUIREMENTS AS SPECIFIED IN SUB-SECTION 500.3.06.E OF THE GEORGIA DOT SPECIFICATIONS FOR STATE ROUTES WITH FOUR OR MORE LANES.

GROOVED CONCRETE - THE ENTIRE LENGTH OF THE BRIDGE SHALL BE GROOVED TRANSVERSELY AS PER SUB-SECTION 500.3.05.T.9.C OF THE GEORGIA DOT SPECIFICATIONS.

WELDING - ALL WELDING ON GEORGIA DOT PROJECTS SHALL BE PERFORMED BY CERTIFIED WELDERS THAT HAVE IN THEIR POSSESSION A CURRENT WELDING CERTIFICATION CARD ISSUED BY THE GEORGIA DOT OFFICE OF MATERIALS AND RESEARCH. ONLY E70XX (EXCLUDING E7014 AND E7024) LOW HYDROGEN ELECTRODES SHALL BE USED FOR MANUAL SHIELDED METAL ARC WELDING.

PAINT - ALL EXISTING STRUCTURAL STEEL SHALL BE CLEANED AND PAINTED AS PER SECTION 535 OF THE GEORGIA DOT SPECIFICATIONS. EXISTING STRUCTURAL STEEL HAS BEEN PAINTED WITH LEAD PAINT.

SALVAGE MATERIAL - NO MATERIAL REMOVED FROM THE EXISTING STRUCTURE SHALL BE SALVAGED FOR USE BY THE GEORGIA DEPARTMENT OF TRANSPORTATION.

INCIDENTAL ITEMS - COST INCIDENTAL TO THE WORK THAT IS NOT SPECIFICALLY COVERED BY THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS AND/OR SPECIAL PROVISIONS SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED. THIS INCLUDES THE COST OF CLEANING AND BENDING OF EXISTING REINFORCEMENT, JOINT FILLERS, AND OTHER INCIDENTAL ITEMS NECESSARY TO COMPLETE THE WORK.

EROSION CONTROL - EROSION CONTROL ITEMS REQUIRED BY THE ENGINEER TO FILTER RUN-OFF FROM HYDRO-DEMOLITION OPERATIONS SHALL BE FURNISHED, INSTALLED, MAINTAINED AND REMOVED BY THE CONTRACTOR. COST SHALL BE INCLUDED IN THE OVER-ALL BID SUBMITTED.

REMOVAL OF PARTS OF EXISTING BRIDGE - COST FOR REMOVAL OF PORTIONS OF EXISTING DECK SLAB, EDGE BEAMS AND TOP OF BACKWALLS SHALL BE INCLUDED IN THE PRICE BID FOR ITEM 540 REMOVAL OF PARTS OF EXISTING BRIDGE.

EDGE BEAMS - EXISTING EDGE BEAMS AT BENTS 1, 3, & 4 SHALL BE REPLACED.

CONCRETE SURFACES - ALL EXPOSED CONCRETE SURFACES OF BENTS 2 AND 3 SHALL BE CLEANED AND COATED WITH A SPECIAL SURFACE COATING AS PER SECTION 836 OF THE GEORGIA DOT SPECIFICATIONS. COST FOR THIS WORK SHALL BE INCLUDED IN THE OVERALL BID SUBMITTED.

△1 APPROACH SLABS - ALL SPALLS IN THE APPROACH SLABS SHALL BE REPAIRED IN ACCORDANCE WITH THE SPECIAL PROVISIONS, AS DIRECTED BY THE ENGINEER, PRIOR TO PLACING ASPHALT OVERLAY. COST SHALL BE INCLUDED IN THE PRICE BID FOR PAY ITEM 521-PATCHING CONCRETE BRIDGE DECK.

△1 CONCRETE CRACKS - CRACKS IN THE CONCRETE OVERLAY SURFACE SHALL BE SEALED IN ACCORDANCE WITH THE SPECIAL PROVISIONS, AS DIRECTED BY THE ENGINEER, PRIOR TO GROOVING. COST SHALL BE INCLUDED IN THE PRICE BID FOR PAY ITEM 528- EPOXY SEALING OF CONCRETE CRACKS.

BRIDGE NO. 1


J.B. TRIMBLE, INC.
6445 Powers Ferry Rd.
Atlanta GA 30339
(770) 952-1022


GEORGIA
DEPARTMENT OF TRANSPORTATION
OPERATIONS DIVISION-OFFICE OF MAINTENANCE

DISTRICT 3 BRIDGE REPAIR (DECK OVERLAY)

I-475 NBL OVER I-75

MONROE COUNTY NHS-M002-00 (425)

SCALE: AS SHOWN JUNE 2003

| REVISIONS | BY | DATE |
|---|---|---|
| △1 PAY ITEM/ QUAN./ NOTES | GLE | 10-14-03 |

GEORGIA REGISTERED No. 28166 PROFESSIONAL ENGINEER GLENN LEE EDWARDS 10-14-03

BRIDGE SHEET 1 OF 3

DESIGNED MDT | CHECKED GLE | REVIEWED EHG
DRAWN ITD | DESIGN GROUP MAINTENANCE | APPROVED STH

C:\DGN\313029\425PE.DGN 5-27-03 ITD

2/20/2008 1:31:23 PM \\GDOT-DSN1\GDPLOT\QCF\Road Design Tiff-18x12 to Tiff-36x24.qcf wnguyen C:\Documents and Settings\wnguyen\Desktop\M002425\Construction\Plan Sheet\m002425 0003.tif GD-RD-Plans-Review