

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**OFFICE OF DESIGN POLICY & SUPPORT
INTERDEPARTMENTAL CORRESPONDENCE**

FILE P.I. #0010412 **OFFICE** Design Policy & Support
Jones County
GDOT District 3 - Thomaston **DATE** 12-7-2015
SR 49 @ Norfolk Southern Railroad

FROM  for Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED LOCATION & DESIGN REPORT

Attached is the approved Location and Design Report with Notice of Location & Design Approval for the above subject project.

Attachment

DISTRIBUTION:

Glenn Bowman, Director of Engineering
Joe Carpenter, Director of P3/Program Delivery
Genetha Rice-Singleton, Assistant Director of P3/Program Delivery
Albert Shelby, State Program Delivery Engineer
Darryl VanMeter, State Innovative Delivery Engineer
Bobby Hilliard, Program Control Administrator
Cindy VanDyke, State Transportation Planning Administrator
Hiral Patel, State Environmental Administrator
Bill DuVall, State Bridge Engineer
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Andy Casey, State Roadway Design Engineer
Jason Mobley, District Design Engineer
Richard Cobb, Location Bureau Chief
Michael Presley, District Engineer
Adam Smith, District Preconstruction Engineer
Jack Reed, District Planning & Programming Engineer
Kraig Collins, Area Engineer - D3, A4
Clinton Ford, Project Manager
BOARD MEMBER - 8th Congressional District

width, road conditions on SR 49 at other locations, turning operations at the intersection of Chapman Road and SR 49, and the proposed design of Chapman Road with concern of creating higher speeds.

- Of the six respondents who formally commented, two were in support of the project and four were uncommitted. No respondents were against the project or expressed conditional support.
- A total of 23 people attended the open house.
- A right-turn lane was added on SR 49 at the intersection of Chapman Road. Also, Chapman Road was redesigned with a stop-controlled intersection instead of a curve meeting the 35 mph speed design.

Consistency with Approved Planning: The design description as presented herein and submitted for approval is consistent with the approved Concept Report.

Recommendations: Recommend that the location and design for the project be approved and that the attached Notice be approved for advertising.

Concur: *[Signature]*
GDOT Director of Engineering

Approve: *Margaret B. Pivke* *10.26.15*
GDOT Chief Engineer Date

DATE OF LOCATION AND DESIGN APPROVAL: *December 7, 2015*
(To be entered by State Conceptual Design Group Manager)

8/16 KESD

AVS:BWS:KES:CF

Attachments:

- Sketch Map
- Construction Cost Estimate
- Notice of Location and Design Approval

DETAILED COST ESTIMATE



Job: 0010412

JOB NUMBER 0010412

FED/STATE PROJECT NUMBER

SPEC YEAR: 13

DESCRIPTION: BRIDGE REPLACEMENT

ITEMS FOR JOB 0010412

0010 - ROADWAY

Line Num	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-1000	1.000	LS	\$75,000.00	TRAFFIC CONTROL - 0010412	\$75,000.00
0009	153-1300	1.000	EA	\$63,000.00	FIELD ENGINEERS OFFICE TP 3	\$63,000.00
0080	210-0100	1.000	LS	\$700,000.00	GRADING COMPLETE - 0010412	\$700,000.00
0085	310-1101	13000.000	TN	\$18.00	GR AGGR BASE CRS, INCL MATL	\$234,000.00
0090	318-3000	1000.000	TN	\$18.00	AGGR SURF CRS	\$18,000.00
0370	402-1812	2000.000	TN	\$80.00	RECYL AC LEVELING, INC BM&HL	\$160,000.00
0095	402-3121	4600.000	TN	\$72.00	RECYL AC 25MM SP, GP1/2, BM&HL	\$331,200.00
0440	402-3130	2300.000	TN	\$75.00	RECYL AC 12.5MM SP, GP2, BM&HL	\$172,500.00
0105	402-3190	1800.000	TN	\$70.00	RECYL AC 19 MM SP, GP 1 OR 2 , INC BM&HL	\$126,000.00
0110	413-0750	3600.000	GL	\$3.00	TACK COAT	\$10,800.00
0115	432-5010	1600.000	SY	\$10.00	MILL ASPH CONC PVMT, VARB DEPTH	\$16,000.00
0120	433-1000	310.000	SY	\$165.00	REINF CONC APPROACH SLAB	\$51,150.00
0560	441-0004	750.000	SY	\$45.00	CONC SLOPE PAV, 4 IN	\$33,750.00
0380	441-0104	600.000	SY	\$25.00	CONC SIDEWALK, 4 IN	\$15,000.00
0450	441-0108	50.000	SY	\$49.00	CONC SIDEWALK, 8 IN	\$2,450.00
0455	446-1100	200.000	LF	\$9.00	PVMT REF FAB STRIPS, TP2, 18 INCH WIDTH	\$1,800.00
0460	456-2015	2.000	GLM	\$1,500.00	INDENT. RUMB. STRIPS - GRND-IN-PL (SKIP)	\$3,000.00
0200	500-0100	310.000	SY	\$5.00	GROOVED CONCRETE	\$1,550.00
0465	500-3101	260.000	CY	\$400.00	CLASS A CONCRETE	\$104,000.00
0390	500-3200	20.000	CY	\$415.00	CL B CONC	\$8,300.00
0395	511-1000	34000.000	LB	\$1.00	BAR REINF STEEL	\$34,000.00
0515	550-1180	1000.000	LF	\$45.28	STM DR PIPE 18,H 1-10	\$45,281.49
0520	550-2180	60.000	LF	\$35.18	SIDE DR PIPE 18,H 1-10	\$2,110.63
0530	550-4218	2.000	EA	\$559.90	FLARED END SECT 18 IN, ST DR	\$1,119.80
0500	600-0001	500.000	CY	\$206.04	FLOWABLE FILL	\$103,019.53
0230	634-1200	8.000	EA	\$115.00	RIGHT OF WAY MARKERS	\$920.00
0235	641-1100	42.000	LF	\$63.00	GUARDRAIL, TP T	\$2,646.00
0240	641-1200	310.000	LF	\$17.00	GUARDRAIL, TP W	\$5,270.00
0250	641-5012	2.000	EA	\$1,860.00	GUARDRAIL ANCHORAGE, TP 12	\$3,720.00
0255	643-8200	1400.000	LF	\$1.25	BARRIER FENCE (ORANGE), 4 FT	\$1,750.00
0540	668-1100	5.000	EA	\$2,231.13	CATCH BASIN, GP 1	\$11,155.65
SUBTOTAL FOR ROADWAY:						\$2,338,493.10

DETAILED COST ESTIMATE



Job: 0010412

0020 - EROSION CONTROL

ine Numb	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0010	163-0232	5.000	AC	\$600.00	TEMPORARY GRASSING	\$3,000.00
0015	163-0240	200.000	TN	\$175.00	MULCH	\$35,000.00
0020	163-0300	4.000	EA	\$1,200.00	CONSTRUCTION EXIT	\$4,800.00
0030	163-0520	500.000	LF	\$15.00	CONSTR AND REMOVE TEMP PIPE SLOPE DRAIN	\$7,500.00
0035	163-0527	50.000	EA	\$240.00	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	\$12,000.00
0040	163-0528	270.000	LF	\$3.75	CONSTR AND REM FAB CK DAM -TP C SLT FN	\$1,012.50
0025	163-0539	5.000	EA	\$1,562.46	CONST AND REM RETROFIT-SL BD DM/W STN FL	\$7,812.30
0049	163-0541	4.000	EA	\$360.00	CONSTR & REM ROCK FILTER DAMS	\$1,440.00
0075	165-0030	3500.000	LF	\$1.00	MAINT OF TEMP SILT FENCE, TP C	\$3,500.00
0265	165-0041	770.000	LF	\$2.50	MAINT OF CHECK DAMS - ALL TYPES	\$1,925.00
0270	165-0096	5.000	EA	\$347.87	MAINT OF RETROFIT-SLOT BD DAM/W ST FLT	\$1,739.35
0055	165-0101	4.000	EA	\$700.00	MAINT OF CONST EXIT	\$2,800.00
0435	165-0110	4.000	EA	\$150.00	MAINT OF ROCK FILTER DAM	\$600.00
0060	167-1000	2.000	EA	\$500.00	WATER QUALITY MONITORING AND SAMPLING	\$1,000.00
0065	167-1500	18.000	MO	\$500.00	WATER QUALITY INSPECTIONS	\$9,000.00
0070	171-0030	7000.000	LF	\$3.00	TEMPORARY SILT FENCE, TYPE C	\$21,000.00
0275	603-2036	190.000	SY	\$59.35	STN DUMPED RIP RAP, TP 1, 36	\$11,277.00
0280	603-2182	360.000	SY	\$36.00	STN DUMPED RIP RAP, TP 3, 24	\$12,960.00
0285	603-7000	550.000	SY	\$3.50	PLASTIC FILTER FABRIC	\$1,925.00
0260	700-6910	10.000	AC	\$1,000.00	PERMANENT GRASSING	\$10,000.00
0295	700-7000	45.000	TN	\$65.00	AGRICULTURAL LIME	\$2,925.00
0300	700-8000	3.000	TN	\$450.00	FERTILIZER MIXED GRADE	\$1,350.00
0305	700-8100	750.000	LB	\$2.30	FERTILIZER NITROGEN CONTENT	\$1,725.00
0315	716-2000	5000.000	SY	\$1.24	EROSION CONTROL MATS, SLOPES	\$6,200.00
SUBTOTAL FOR EROSION CONTROL:						\$162,491.15

0030 - STRUCTURAL

ine Numb	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0410	211-0200	250.000	CY	\$45.00	BR EXCAV, GRADE SEPARATION	\$11,250.00
0165	540-1102	1.000	LS	\$325,000.00	REM OF EX BR, BR NO - 1	\$325,000.00
0320	543-9000	1.000	LS	\$1,500,000.00	CONSTR OF BRIDGE COMPLETE - 1	\$1,500,000.00
0565	627-1000	130.000	SF	\$45.06	MSE WALL FACE, 0 - 10 FT HT, WALL NO - #1	\$5,857.97
0570	627-1010	3700.000	SF	\$44.28	MSE WALL FACE, 10 - 20 FT HT, WALL NO - #1	\$163,826.82
0575	627-1020	7800.000	SF	\$54.47	MSE WALL FACE, 20 - 30 FT HT, WALL NO - #1	\$424,838.86
0580	627-1100	64.000	LF	\$100.55	COPING A, WALL NO - #1	\$6,435.20
SUBTOTAL FOR STRUCTURAL:						\$2,437,208.85

DETAILED COST ESTIMATE



Job: 0010412

0040 - SIGNAL SIGNING AND MARKING

Line Num	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0325	636-1033	75.000	SF	\$19.81	HWY SIGNS, TP1MAT,REFL SH TP 9	\$1,486.04
0330	636-1036	50.000	SF	\$20.00	HWY SGN,TP1MAT,REFL SH TP 11	\$1,000.00
0335	636-2070	200.000	LF	\$8.00	GALV STEEL POSTS, TP 7	\$1,600.00
0340	636-5010	48.000	EA	\$26.00	DELINEATOR, TP 1	\$1,248.00
0430	653-0120	2.000	EA	\$75.00	THERM PVMT MARK, ARROW, TP 2	\$150.00
0345	653-2501	2.000	LM	\$1,600.00	THERMO SOLID TRAF ST, 5 IN, WH	\$3,200.00
0350	653-2502	2.000	LM	\$1,600.00	THERMO SOLID TRAF ST, 5 IN YE	\$3,200.00
0555	653-6006	18.000	SY	\$5.79	THERM TRAF STRIPING, YELLOW	\$104.16
0355	654-1001	100.000	EA	\$3.00	RAISED PVMT MARKERS TP 1	\$300.00
0425	654-1003	30.000	EA	\$3.50	RAISED PVMT MARKERS TP 3	\$105.00
0420	654-1010	10.000	EA	\$32.00	RAISED PVMT MARKERS TP 10	\$320.00
0415	657-1085	640.000	LF	\$6.00	PRF PL SD PVT MKG,8,B/W,TP PB	\$3,840.00
0409	657-6085	640.000	LF	\$6.00	PRF PL SD PVMT MKG,8,B/Y,TPPB	\$3,840.00
SUBTOTAL FOR SIGNAL SIGNING AND MARKING:						\$20,393.20

Line Num	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0705	150-5010	2.000	EA	\$7,698.49	TRAF CTRL,PORTABLE IMPACT ATTN	\$15,396.98
0680	163-0542	3.000	EA	\$468.46	CONSTR & REM STONE FILTER RING	\$1,405.37
0685	163-0550	7.000	EA	\$166.16	CONS & REM INLET SEDIMENT TRAP	\$1,163.10
0695	165-0105	7.000	EA	\$84.84	MAINT OF INLET SEDIMENT TRAP	\$593.88
0690	165-0111	3.000	EA	\$141.14	MAINT OF STONE FILTER RING	\$423.43
0590	441-0106	600.000	SY	\$35.35	CONC SIDEWALK, 6 IN	\$21,208.35
0595	441-6720	1000.000	LF	\$13.41	CONC CURB & GUTTER/ 6X30TP7	\$13,410.00
0650	500-3120	620.000	LF	\$651.64	CLASS A CONCRETE, TYPE P3, RETAINING WAL	\$404,016.80
0600	550-1240	310.000	LF	\$51.27	STM DR PIPE 24,H 1-10	\$15,893.88
0605	550-1300	70.000	LF	\$67.54	STM DR PIPE 30,H 1-10	\$4,727.75
0610	550-1362	170.000	LF	\$79.37	STM DR PIPE 36,H 15-20	\$13,493.48
0615	550-1421	150.000	LF	\$139.40	STM DR PIPE 42,H 10-15	\$20,910.00
0620	550-1601	230.000	LF	\$191.94	STM DR PIPE 60,H 10-15	\$44,146.20
0630	550-3524	4.000	EA	\$839.58	SAFETY END SECTION 24,STD,6:1	\$3,358.32
0625	550-3618	2.000	EA	\$410.72	SAFETY END SECTION 18,SD,6:1	\$821.44
0635	550-3630	2.000	EA	\$1,000.00	SAFETY END SECTION 30,SD,6:1	\$2,000.00
0640	550-4236	2.000	EA	\$1,129.78	FLARED END SECT 36 IN, ST DR	\$2,259.56
0645	550-4242	2.000	EA	\$1,550.29	FLARED END SECT 42 IN, ST DR	\$3,100.59
0715	620-0200	2400.000	LF	\$60.43	TEMP BARRIER, METHOD NO. 2	\$145,037.62
0655	627-1030	7600.000	SF	\$52.80	MSE WALL FACE, GTR 30 FT HT, WALL NO - #1	\$401,242.68
0660	627-1160	780.000	LF	\$223.50	TRAFFIC BARRIER H, WALL NO - #1	\$174,328.63
0710	647-5230	1.000	EA	\$7,561.80	SIGNAL ASS, FLASHING SCHOOL,CO	\$7,561.80
0665	668-1110	35.000	LF	\$198.41	CATCH BASIN, GP 1, ADDL DEPTH	\$6,944.42
0700	668-2100	2.000	EA	\$1,936.26	DROP INLET, GP 1	\$3,872.51
0670	711-0100	1200.000	SY	\$4.40	TURF REINFORCING MATTING, TP 1	\$5,280.00
0675	711-0200	3100.000	SY	\$4.20	TURF REINFORCING MATTING, TP 2	\$13,020.00
0720	999-5200	20.000	SF	\$20.00	DETECTABLE WARNING SURFACE	\$400.00
SUBTOTAL FOR :						\$1,326,016.79

TOTALS FOR JOB 0010412

DETAILED COST ESTIMATE



Job: 0010412

ITEMS COST:	\$6,284,603.09
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$6,284,603.09
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.00
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$6,284,603.09

NOTICE OF LOCATION AND DESIGN APPROVAL
JONES COUNTY
P. I. 0010412

Notice is hereby given in compliance with Georgia Code 22-2-109 and 32-3-5 that the Georgia Department of Transportation has approved the Location and Design of this project.

The date of location and design approval is: December 7, 2015

The proposed project consists of the bridge replacement on State Route 49 over the Norfolk Southern Railroad 8.5 miles south of Gray, GA located in Jones County. The project is located in Land District 7 and Land Lots 24, 29, 30, 49, and 50.

The proposed construction will consist of replacing the 34.30' wide 306' long bridge with one that is 48.67' wide and 352' long. SR 49 will remain open to traffic with the new bridge offset to the west of the current one. Chapman Road will be realigned with improvements at the intersection with SR 49. Parapet and MSE walls will also be constructed along SR 49.

Drawings or maps or plats of the proposed project, as approved, are on file and are available for public inspection at the Georgia Department of Transportation:

Kraig Collins, Area Engineer
krcollins@dot.ga.gov
4499 Riverside Drive
Macon GA, 31210
478-757-2601

Any interested party may obtain a copy of the drawings or maps or plats or portions thereof by paying a nominal fee and requesting in writing to:

Albert Shelby
Program Delivery
Attn: Clinton Ford
cford@dot.ga.gov
4499 Riverside Drive
678-343-0929

Any written request or communication in reference to this project or notice SHOULD include the Project and P. I. Numbers as noted at the top of this notice.