

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. # 0012788 **OFFICE** Design Policy & Support
Fulton County
GDOT District 7 - Metro Atlanta **DATE** March 15, 2016
SR 120 from CS 79/Parson Road to SR 141

FROM  Brent Story, State Design Policy Engineer

TO SEE DISTRIBUTION

SUBJECT APPROVED REVISED CONCEPT REPORT

Attached is the approved Revised Concept Report for the above subject project.

Attachment

DISTRIBUTION:

Hiral Patel, 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
Eric Duff, State Environmental Administrator
Bill DuVall, State Bridge Engineer
Andrew Heath, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Charles "Chuck" Hasty, State Materials Engineer
Lee Upkins, State Utilities Engineer
Paul Tanner, State Transportation Data Administrator
Attn: Systems & Classification Branch
Richard Cobb, Statewide Location Bureau Chief
Kathy Zahul, District Engineer
Scott Lee, District Preconstruction Engineer
Nicholas Fields, District Utilities Engineer
Tim Evans, Project Manager
BOARD MEMBER - 6th Congressional District

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
REVISED PROJECT CONCEPT REPORT**

Project Type: <u>Minor Project</u>	P.I. Number: <u>0012788</u>
GDOT District: <u>7</u>	County: <u>Fulton</u>
Federal Route Number: <u>N/A</u>	State Route Number: <u>120</u>
Project Number: _____	N/A

SR 120 culvert extension over Johns Creek was upgraded to a new bridge section.

Submitted for approval:

<u>[Signature]</u> - <u>Volvert & Associates</u>	<u>11/18/15</u>
Consultant Designer & Firm or GDOT Concept/Design Phase Office Head & Office	Date
<u>[Signature]</u> - <u>City of Johns Creek</u>	<u>11/18/2015</u>
Local Government Sponsor	Date
<u>Albert V. Shelby, III</u>	<u>11/19/2015</u>
State Program Delivery Engineer	Date
<u>[Signature]</u> <u>KUN</u>	<u>11/18/2015</u>
GDOT Project Manager	Date

** Recommendations on file*

Recommendation for approval:

<i>* Hiral Patel / KLP</i>	<u>12/6/2015</u>
State Environmental Administrator	Date
<i>* Ken Werho / KLP</i>	<u>12/10/2015</u>
State Traffic Engineer	Date
<i>* Bill DuVall / KLP</i>	<u>1-4-16</u>
State Bridge Engineer	Date

- MPO Area: This project is consistent with the MPO adopted Regional Transportation Plan (RTP)/Long Range Transportation Plan (LRTP).
- Rural Area: This project is consistent with the goals outlined in the Statewide Transportation Plan (SWTP) and/or is included in the State Transportation Improvement Program (STIP).

<u>[Signature]</u>	<u>12-2-15</u>
State Transportation Planning Administrator	Date

County: Fulton

ENVIRONMENTAL AND PERMITS

Potential environmental impacts of proposed revision: It is expected that the proposed bridge would cause a reduction in stream impacts to Johns Creek. The environmental documents will be completed to meet ROW Authorization date of June 2016.

Have proposed revisions been reviewed by environmental staff? No Yes

Environmental responsibilities (Studies/Documents/Permits): Consultant

Air Quality:

- Is the project located in a PM 2.5 Non-attainment area? No Yes
- Is the project located in an Ozone Non-attainment area? No Yes
- Is a Carbon Monoxide hotspot analysis required? No Yes

Environmental Comments and Information: If environmental impacts are expected to change as a result of the proposed revision, please list by section below; if not, please remove this portion. Include any changes to current permit(s) or mitigation required in the appropriate section(s) below.

- NEPA:** The environmental document has not yet been completed and will not need to be revised.
- Ecology:** The Ecology Report will need to be revised to reflect the changes in the impacts to the waters and update the minimization and mitigation efforts to reflect the current design. No additional surveys for protected species will be required.
- Archeology:** The archeology study will not need to be revised.
- History:** The history study will not need to be revised.
- Air Quality:** The air quality study will not need to be revised.
- Noise Effects:** The noise effects study will not need to be revised.
- Public Involvement:** No additional public involvement will be required.

[Faint handwritten notes and signatures are visible at the bottom of the page.]

PROJECT COST AND ADDITIONAL INFORMATION

Item	Estimated Cost	Date of Estimate	Funded By
Base Construction Cost:	9,636,647.10	10/23/2015	
Engineering and Inspection:	481,832.36	10/23/2015	
Contingencies:	1,011,847.95	10/23/2015	
Liquid AC Adjustment:	514,665.74	10/23/2015	
Total Construction Cost:	11,644,993.14	10/23/2015	
Right of Way:	2,237,000.00 3,940,000	4/1/2015 1-27-16	
Utilities (reimbursable costs):			
Environmental Mitigation:			
Total Project Cost:	13,881,993.14 15,584,993.14		

Recommendation: Recommend that the proposed revision to the concept be approved for implementation.

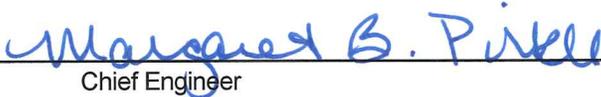
Comments:

Attachments:

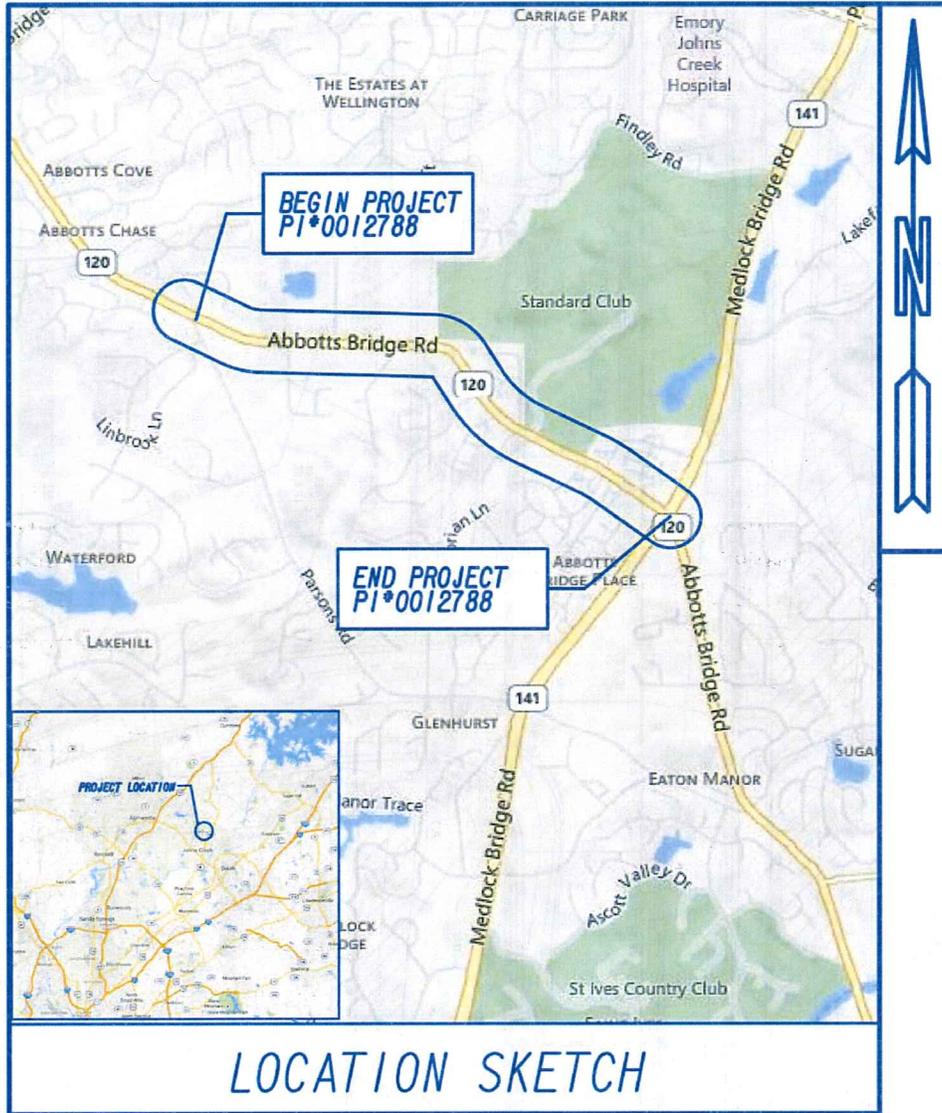
1. Sketch map
2. Bridge Plan Sheet
3. Cost Estimate **S**
4. Email correspondence detailing bridge option

APPROVALS

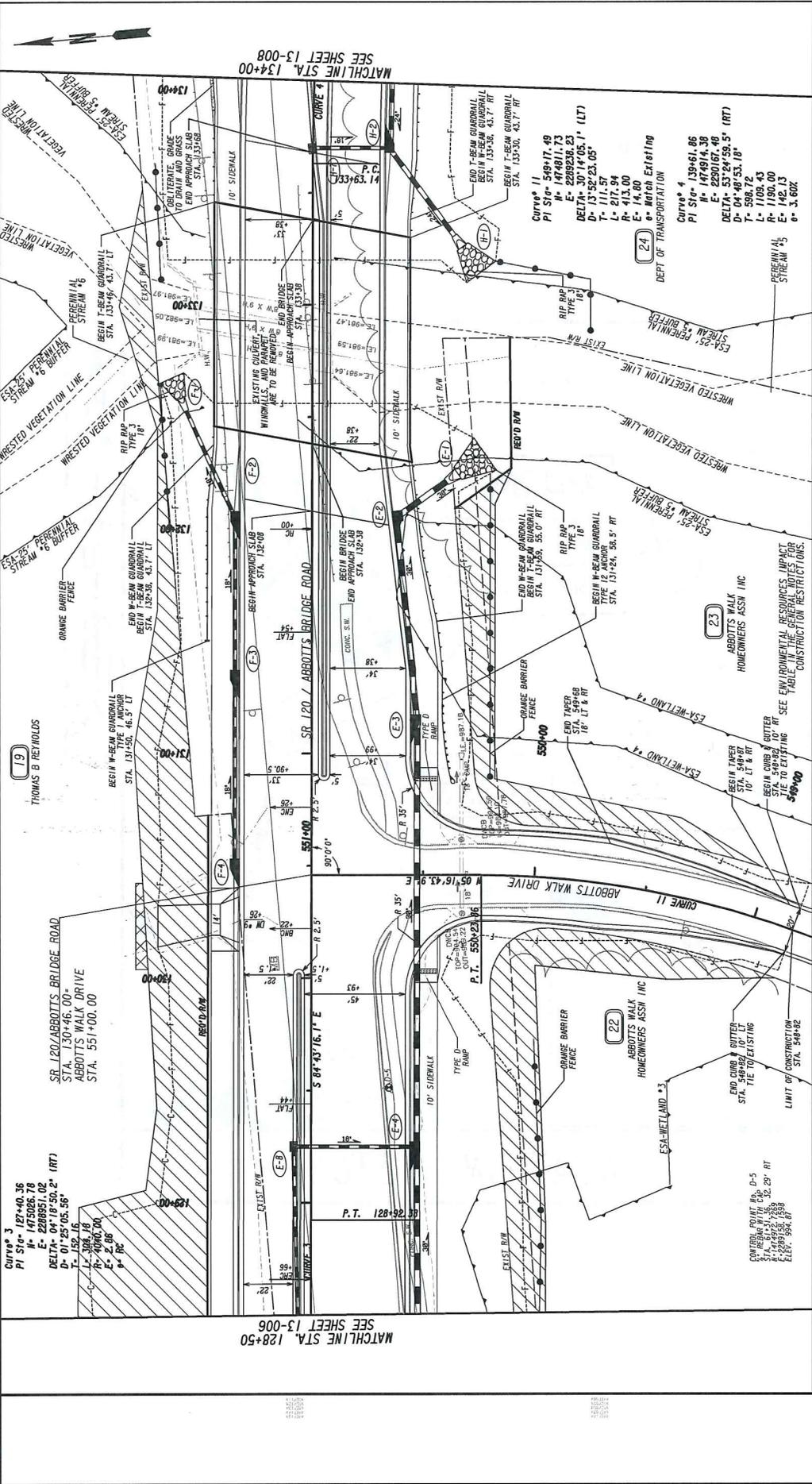
Concur: 
 Director of Engineering

Approve:  3/8/16
 Chief Engineer Date

PROJECT LOCATION MAP



LOCATION SKETCH



PROPOSED AND EXISTING ROW LINE
 REQUIRED ROW LINE
 CONSTRUCTION LIMITS
 EASEMENT FOR CONSTR. & MAINTENANCE OF SLOPES
 EASEMENT FOR CONSTR. OF DRIVES
 OBLITERATED PAVEMENT

LEGEND
 BIA
 ELA
 LIMIT OF ACCESS
 ROW & LIMIT OF ACCESS
 ORANGE BARRIER FENCE
 ESA - ENV. SENSITIVE AREA (SEE ENVT 4-1)

REVISION DATES

SCALE IN FEET
 0 20 40 80

Wolverton & Associates
 CIVIL ENGINEERS AND ARCHITECTS
 1000 W. BROADWAY, SUITE 1000
 ATLANTA, GA 30309
 (404) 525-1100

**CITY OF JOHNS CREEK
 PUBLIC WORKS DEPARTMENT
 MAINLINE PLAN
 SR 120/ABBOTTS BRIDGE ROAD**

DRAWING NO. 13-007

CONTINGENCY SUMMARY

A. CONSTRUCTION COST ESTIMATE:	\$	9,636,647.10	Base Estimate From CES	
B. ENGINEERING AND INSPECTION (E & I):	\$	481,832.36	Base Estimate (A) x	5 %
C. CONTINGENCY:	\$	1,011,847.95	Base Estimate (A) + E & I (B) x	10 %
			See % Table in "Risk Based Cost Estimation" Memo	
D. TOTAL LIQUID AC ADJUSTMENT:	\$	514,665.74	Total From Liquid AC Spreadsheet	
E. CONSTRUCTION TOTAL:	\$	11,644,993.14	(A + B + C + D = E)	

REIMBURSABLE UTILITY COSTS

UTILITY OWNER	REIMBURSABLE COST
TOTAL	\$ -

ATTACHMENTS:

- Detailed Cost Estimate Printout From TRAQS
- Liquid AC Adjustment Spreadsheet

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

INTERDEPARTMENT CORRESPONDENCE

FILE P.I. No. [REDACTED] ***0012788**

OFFICE [REDACTED]
PROGRAM
DELIVERY

PROJECT DESCRIPTION

[REDACTED]
SR 120 from CS 79/Parson Road to SR 141
[REDACTED]

DATE [REDACTED]
October 23, 2015

From: [REDACTED]
Albert V. Shelby, III, State Program Delivery Engineer

To: Lisa L. Myers, State Project Review Engineer

Subject: REVISIONS TO PROGRAMMED COSTS

PROJECT MANAGER [REDACTED]
Peter B. Emmanuel

MGMT LET DATE [REDACTED]
9/17/2017

MGMT ROW DATE [REDACTED]
6/15/2016

PROGRAMMED COSTS (TPro W/OUT INFLATION)

LAST ESTIMATE UPDATE

CONSTRUCTION \$ [REDACTED]
10,184,325.70

DATE [REDACTED]
4/1/2015

RIGHT OF WAY \$ [REDACTED]
2,237,000.00

DATE [REDACTED]
4/1/2015

UTILITIES \$ [REDACTED]
-

DATE [REDACTED]

REVISED COST ESTIMATES

CONSTRUCTION* \$ [REDACTED]
11,644,993.14

RIGHT OF WAY \$ [REDACTED]
2,237,000.00

UTILITIES \$ [REDACTED]
-

\$3,940,000 - updated 01/27/2016

*Cost Contains [REDACTED] % Contingency

REASONS FOR COST INCREASE AND CONTINGENCY JUSTIFICATION:

[REDACTED]
Addition of the 3-span bridge over Johns Creek
[REDACTED]

PROJ. NO. [REDACTED]
 P.I. NO. 0012788
 DATE 10/23/2015

CALL NO. 9/29/2009

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Oct-15	\$ 2.155
DIESEL		\$ 2.485
LIQUID AC		\$ 429.00

Link to Fuel and AC Index:
<http://www.dot.ga.gov/doingbusiness/Materials/Pages/asphaltcementindex.aspx>

LIQUID AC ADJUSTMENTS

PA=[((APM-APL)/APL)]xTMTxAPL

Asphalt

Price Adjustment (PA)				340540.2	\$	340,540.20
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	686.40		
Monthly Asphalt Cement Price month project let (APL)			\$	429.00		
Total Monthly Tonnage of asphalt cement (TMT)				1323		

ASPHALT	Tons	%AC	AC ton
Leveling		5.0%	0
12.5 OGFC		5.0%	0
12.5 mm	5150	5.0%	257.5
9.5 mm SP		5.0%	0
25 mm SP	13920	5.0%	696
19 mm SP	7390	5.0%	369.5
	26460		1323

BITUMINOUS TACK COAT

Price Adjustment (PA)				\$ 174,125.54	\$	174,125.54
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	686.40		
Monthly Asphalt Cement Price month project let (APL)			\$	429.00		
Total Monthly Tonnage of asphalt cement (TMT)				676.4783952		

Bitum Tack

Gals	gals/ton	tons
157500	232.8234	676.478395

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				0	\$	-
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	686.40		
Monthly Asphalt Cement Price month project let (APL)			\$	429.00		
Total Monthly Tonnage of asphalt cement (TMT)				0		

Bitum Tack

	SY	Gals/SY	Gals	gals/ton	tons
Single Surf. Trmt.		0.20	0	232.8234	0
Double Surf. Trmt.		0.44	0	232.8234	0
Triple Surf. Trmt		0.71	0	232.8234	0
					0

TOTAL LIQUID AC ADJUSTMENT \$ 514,665.74

JOB DETAIL ESTIMATE

JOB NUMBER : 0012788 SPEC YEAR: 13
DESCRIPTION: SR 120/ABBOTTS BRIDGE ROAD

ITEMS FOR JOB 0012788

LINE	ITEM	ALT	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0005	150-1000		LS	TRAFFIC CONTROL - PI 0012788	1.000	800000.00	800000.00
0010	205-0210		CY	EXCAVATION - ROCK	46840.000	14.66	686674.40
0015	210-0100		LS	GRADING COMPLETE - PI 0012788	1.000	1600000.00	1600000.00
0020	310-1101		TN	GR AGGR BASE CRS, INCL MATL	20400.000	21.06	429635.02
0025	318-3000		TN	AGGR SURF CRS	470.000	21.74	10219.17
0030	402-1812		TN	RECYL AC LEVELING, INC BM&HL	12940.000	69.92	904849.43
0035	402-3121		TN	RECYL AC 25MM SP, GP1/2, BM&HL	13920.000	69.16	962833.18
0040	402-3130		TN	RECYL AC 12.5MM SP, GP2, BM&HL	5150.000	76.37	393318.48
0045	402-3190		TN	RECYL AC 19 MM SP, GP 1 OR 2, INC BM&HL	7390.000	70.28	519390.26
0050	413-1000		GL	BITUM TACK COAT	1575000.000	1.69	266721.53
0055	441-0016		SY	DRIVEWAY CONCRETE, 6 IN TK	250.000	36.51	9129.34
0060	441-0104		SY	CONC SIDEWALK, 4 IN	14210.000	24.58	349302.26
0065	441-0740		SY	CONC MEDIAN, 4 IN	5420.000	28.42	154058.13
0070	441-0748		SY	CONC MEDIAN, 6 IN	260.000	46.22	12018.57
0075	441-4020		SY	CONC VALLEY GUTTER, 6 IN	170.000	38.09	6476.43
0080	441-6222		LF	CONC CURB & GUTTER/ 8X30TP2	15790.000	12.72	200925.54
0085	441-6740		LF	CONC CURB & GUTTER/ 8X30 TP7	3940.000	13.53	53315.96
0090	446-1100		LF	PVMT REF FAB STRIPS, TP2, 18 INCH WIDTH	15000.000	3.17	47566.05
0095	500-3101		CY	CLASS A CONCRETE	70.000	676.22	47335.76
0100	500-3200		CY	CL B CONC	330.000	330.59	109097.84
0105	500-9999		CY	CL B CONC, BASE OR PVMT WIDEN	62.000	172.03	10666.37
0110	511-1000		LB	BAR REINF STEEL	5050.000	1.07	5436.07
0114	543-1100		LS	CONSTR BR-COMP-BOTTOM OF CAP	1.000	743000.00	743000.00
0115	550-1180		LF	STM DR PIPE 18, H 1-10	5820.000	35.10	204309.82
0120	550-1240		LF	STM DR PIPE 24, H 1-10	1890.000	43.12	81498.12
0125	550-1300		LF	STM DR PIPE 30, H 1-10	1720.000	49.92	85864.69
0130	550-1360		LF	STM DR PIPE 36, H 1-10	250.000	69.08	17272.02
0135	550-1420		LF	STM DR PIPE 42, H 1-10	240.000	70.95	17029.03
0140	550-4218		EA	FLARED END SECT 18 IN, ST DR	3.000	590.69	1772.10
0145	550-4224		EA	FLARED END SECT 24 IN, ST DR	4.000	666.44	2665.79
0150	550-4230		EA	FLARED END SECT 30 IN, ST DR	3.000	785.46	2356.39
0155	550-4236		EA	FLARED END SECT 36 IN, ST DR	2.000	1103.29	2206.58
0160	550-4242		EA	FLARED END SECT 42 IN, ST DR	1.000	1517.09	1517.09

0165	603-2181	SY	STN DUMPED RIP RAP, TP 3, 18	CES.txt	223.000	39.82	8880.38
0170	603-7000	SY	PLASTIC FILTER FABRIC		42.000	4.03	169.58
0175	610-9099	LS	REM WINGWALLS/PARAPETS, STA - STA 132+75 LT		1.000	6064.62	6064.62
0179	610-9099	LS	REM WINGWALLS/PARAPETS, STA - STA 132+75 RT		1.000	6064.62	6064.62
0180	610-9099	LS	REM WINGWALLS/PARAPETS, STA - STA		1.000	6064.62	6064.62

DATE : 10/20/2015
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STATE HIGHWAY AGENCY
JOB DETAIL ESTIMATE

0185	634-1200	EA	158+50	RIGHT OF WAY MARKERS	119.000	109.58	13040.83
0190	641-1200	LF		GUARDRAIL, TP W	1810.000	17.97	32538.93
0195	641-5001	EA		GUARDRAIL ANCHORAGE, TP 1	7.000	870.40	6092.84
0200	641-5012	EA		GUARDRAIL ANCHORAGE, TP 12	70.000	2025.96	14181.74
0205	668-1100	EA		CATCH BASIN, GP 1	7.000	2231.43	156200.23
0210	668-2100	EA		DROP INLET, GP 1	23.000	1759.36	40465.42
0215	668-4300	EA		STORM SEW MANHOLE, TP 1	14.000	1847.33	25862.63
0220	700-6910	AC		PERMANENT GRASSING	14.000	573.68	8031.63
0225	700-7000	TN		AGRICULTURAL LIME	42.000	85.02	3570.98
0230	700-8000	TN		FERTILIZER MIXED GRADE	15.000	525.72	7885.94
0235	700-8100	LB		FERTILIZER NITROGEN CONTENT	700.000	2.34	1638.55
0240	716-2000	SY		EROSION CONTROL MATS, SLOPES	7100.000	1.02	7310.37
0245	999-3155	LF		DRY SWALE EDGE DRAIN	500.000	54.24	27121.98
0250	163-0232	AC		TEMPORARY GRASSING	7.000	210.91	1476.43
0255	163-0240	TN		MULCH	310.000	191.22	59280.44
0260	163-0300	EA		CONSTRUCTION EXIT	4.000	1321.01	5284.05
0265	163-0501	EA		CONSTR AND REMOVE SILT CONTROL GATE, TP 1	5.000	405.61	2028.06
0270	163-0527	EA		CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	567.000	258.62	146639.80
0275	163-0529	LF		CNST/REM TEMP SED BAR OR BLD STRW CK DM	200.000	4.12	824.10
0280	163-0550	EA		CONS & REM INLET SEDIMENT TRAP	90.000	114.96	10347.19
0285	163-0010	LF		MAINT OF TEMP SILT FENCE, TP A	4300.000	0.52	2248.86
0290	165-0030	LF		MAINT OF TEMP SILT FENCE, TP C	1700.000	0.74	1267.01
0295	165-0041	LF		MAINT OF CHECK DAMS - ALL TYPES	5670.000	0.86	4890.20
0300	165-0071	LF		MAINT OF SEDIMENT BARRIER - BALED STRAW	100.000	1.61	161.77
0305	165-0085	EA		MAINT OF SILT CONTROL GATE, TP 1	5.000	157.82	789.12
0310	165-0101	EA		MAINT OF CONST EXIT	4.000	669.42	2677.70
0315	165-0105	EA		MAINT OF INLET SEDIMENT TRAP	90.000	34.04	3064.11
0320	167-1000	EA		WATER QUALITY MONITORING AND SAMPLING	2.000	220.48	440.96
0325	167-1500	MO		WATER QUALITY INSPECTIONS	18.000	493.47	8882.52
0330	171-0010	LF		TEMPORARY SILT FENCE, TYPE A	8600.000	1.92	16547.00
0335	171-0030	LF		TEMPORARY SILT FENCE, TYPE C	3400.000	2.90	9869.93
0340	643-8200	LF		BARRIER FENCE (ORANGE), 4 FT	440.000	1.35	596.42

CES.txt

0345	636-1020	SF	HWY SGN, TP1MAT, REFL SH TP3	12.000	17.03	204.37
0350	636-1033	SF	HWY SIGNS, TP1MAT, REFL SH TP 9	332.000	17.59	5842.52
0355	636-1036	SF	HWY SGN, TP1MAT, REFL SH TP 11	75.000	23.55	1766.25
0360	636-2070	LF	GALV STEEL POSTS, TP 7	680.000	7.14	4838.65
0365	652-6301	GLF	SKIP TRAF STRIPE, 6 IN, WHITE	1337.000	0.13	183.74
0370	653-0120	EA	THERM PVMT MARK, ARROW, TP 2	92.000	74.67	6869.96
0375	653-0210	EA	THERM PVMT MARK, WORD, TP 1	17.000	109.82	1867.01
0380	653-1501	LF	THERMO SOLID TRAF ST 5 IN, WHI	20490.000	0.42	8620.35
0385	653-1502	LF	THERMO SOLID TRAF ST, 5 IN YEL	14100.000	0.43	6129.41
0390	653-1704	LF	THERM SOLID TRAF STRIPE, 24, WH	241.000	6.33	1527.65
0395	653-1804	LF	THERM SOLID TRAF STRIPE, 8, WH	4395.000	2.02	8899.52
0400	653-1906	LF	THERM SOLID TRAF STRIPE, 6, WH	10771.000	0.52	5600.92
0405	653-2501	LM	THERMO SOLID TRAF ST, 5 IN, WH	4.000	1630.17	6520.71
0410	653-2502	LM	THERMO SOLID TRAF ST, 5 IN YE	3.000	1568.68	4706.06
0415	653-3501	GLF	THERMO SKIP TRAF ST, 5 IN, WHI	2623.000	0.31	824.78
0420	653-3502	GLF	THERMO SKIP TRAF ST, 5 IN, YEL	321.000	0.29	94.70

STATE HIGHWAY AGENCY

DATE : 10/20/2015
PAGE : 3

JOB DETAIL ESTIMATE

0425	653-4501	GLM	THERMO SKIP TRAF ST, 5 IN, WHI	1.000	1089.04	1089.04
0430	653-4502	GLM	THERMO SKIP TRAF ST, 5 IN, YEL	1.000	1059.64	1059.64
0435	653-6004	SY	THERM TRAF STRIPING, WHITE	2200.000	3.45	7597.11
0440	654-1001	EA	RAISED PVMT MARKERS TP 1	50.000	4.61	230.96
0445	654-1003	EA	RAISED PVMT MARKERS TP 3	78.000	3.82	298.27
0450	621-4023	LF	CONCRETE SIDE BARRIER, TY 2C	270.000	647.75	174892.50
ITEM TOTAL						9636647.10
INFLATED ITEM TOTAL						9636647.10

TOTALS FOR JOB 0012788

ESTIMATED COST: 9636647.10
CONTINGENCY PERCENT (0.0): 0.00
ESTIMATED TOTAL: 9636647.10

**GEORGIA DEPARTMENT OF TRANSPORTATION
PRELIMINARY ROW COST ESTIMATE SUMMARY**

SR 120

Date: 8/28/2014
Revised: 1/27/2016

Project: Operational Imp
County: Fulton

PI: 12788

Description: Road Widening
Project Termini: SR 120 - From Parsons Rd to SR 141

Existing ROW: Varies
Required ROW: Varies

Parcels: 48

Land and Improvements _____ \$2,992,558.20

Proximity Damage	\$300,000.00
Consequential Damage	\$0.00
Cost to Cures	\$0.00
Trade Fixtures	\$0.00
Improvements	\$400,000.00

Valuation Services _____ \$105,000.00

Legal Services _____ \$332,400.00

Relocation _____ \$96,000.00

Demolition _____ \$7,500.00

Administrative _____ \$406,000.00

TOTAL ESTIMATED COSTS _____ \$3,939,458.20

TOTAL ESTIMATED COSTS (ROUNDED) _____ \$3,940,000.00

Preparation Credits	Hours	Signature

Prepared By:
Approved By:

[Signature]
[Signature]

CG#: 01-27-16 DATE
CG#: 286999 02/18/2016 DATE

NOTE: No Market Appreciation is included in this Preliminary Cost Estimate

From: Bowman, Glenn [<mailto:gbowman@dot.ga.gov>]
Sent: Wednesday, October 14, 2015 1:37 PM
To: Thomas Black
Cc: Pirkle, Meg; McMurry, Russell; Rabun, Ben; Shelby, Albert; Emmanuel, Peter
Subject: RE: 0012788: Bridge or Culvert - Action Items

Tom,

The Department has reconsidered the proposed design and determined that the concept should be changed to replace the existing culvert with a new bridge crossing. We look forward to the revised concept report and thank you for your input during this process.

I trust you will still be able to recover the schedule and get ROW authorization on or before the baseline date of June, 7, 2016? ROW funds are programmed for FY 2016 and this is right at the end so we absolutely cannot miss. Please advise asap if this change is creating any new schedule challenges.

Thanks again.

Glenn Bowman, P.E.
Director of Engineering
Georgia Department of Transportation
600 West Peachtree Street, NW - 25th Floor
Atlanta, Georgia 30308
Office: 404-631-1519 Mobile: 404-326-5871

From: McMurry, Russell
Sent: Sunday, September 27, 2015 10:59 PM
To: Rabun, Ben; Bowman, Glenn
Cc: Pirkle, Meg
Subject: Fwd: 0012788: Bridge or Culvert - Action Items

Ben,
This culvert is at the confluence of two creeks and the extension could cause stream alignment issues.

Please have this looked at and let me know your thoughts.

Russell McMurry
Georgia Department of Transportation
Sent from my mobile

Begin forwarded message:

From: Thomas Black <Thomas.Black@johnscreekgga.gov>
Date: September 25, 2015 at 9:50:58 AM CDT
To: "Russell R. McMurry (rmcmurry@dot.ga.gov)" <rmcmurry@dot.ga.gov>, "Pirkle, Meg" <mpirkle@dot.ga.gov>, "Albert Shelby III (ashelby@dot.ga.gov)" <ashelby@dot.ga.gov>,

"brabun@dot.gov" <brabun@dot.gov>

Cc: Cindy Jenkins <Cindy.Jenkins@johnscreekga.gov>, Chris Haggard <Chris.Haggard@johnscreekga.gov>

Subject: FW: 0012788: Bridge or Culvert - Action Items

Russell can I request that the Department take a second look at the proposed box culvert being replaced by a new bridge. I believe the final costs involved will be a lot closer than are being predicted? The additional cost of construction in shifting traffic, the time delay in opening the roadway, and the additional environmental effort will be critical in moving the project. Therefore, I very respectfully request that the bridge option be reconsidered. Thank you in advance for your consideration.

From: Brad Robinson [<mailto:brad.robinson@wolverton-assoc.com>]

Sent: Friday, September 25, 2015 9:32 AM

To: Cindy Jenkins

Cc: Thomas Black; Chris Haggard; Mario Macrina

Subject: FW: 0012788: Bridge or Culvert - Action Items

Cindy, as discussed, we have reevaluated the cost based on the meeting with GDOT on 6/26/15.

The attached cost estimate assumes a bridge cost of \$85/sf, per Susan Beck's input. The bridge footprint was also reduced to the minimum necessary to meet hydraulic requirements. Based on this, the bridge cost will be approximately \$1,039,000.

We also added some items to the cost of the culvert, including sidewalk, C&G and full-depth pavement in order to develop a more accurate comparison. The culvert widening/extension cost will be approximately \$478,000, resulting in a difference between the two options of \$561,000.

Some additional benefits of the bridge should also be considered:

- Staging and MOT – four additional culvert barrels would need to be constructed in stages, requiring multiple traffic shifts adjacent to the roadway. A bridge could allow us to shift from the existing alignment prior to the crossing and construct the bridge parallel to the existing lanes of traffic.
- Environmental – the bridge is a more desirable solution from an environmental standpoint. The existing culverts are not embedded, so the bridge would improve fish passage. Extending the culverts would also result in permanent stream impacts with the additional length and required rip rap.
- The City of Johns Creek has been in the planning phases of developing a trail network along Johns Creek. A bridge would better accommodate those future trails.
- The Bridge Office mentions maintenance costs as a reason to not construct a bridge, but the maintenance of a 7 barrel bridge culvert may also require similar maintenance costs.
- The bridge would also require raising the sag of the roadway, which would be a benefit for sight distance along the corridor.

Please let us know if you have any additional questions. Thanks!

From: Emmanuel, Peter [<mailto:pemmanuel@dot.ga.gov>]

Sent: Friday, July 24, 2015 2:31 PM

To: Brad Robinson; Mario Macrina
Cc: Harris, Roxanne E; 'Thomas Black'; 'Cindy Jenkins'; 'David Chastant'
Subject: RE: 0012788: Bridge or Culvert - Action Items

Good Afternoon Brad/Mario – Please proceed on the culvert/barrel extension, and have the ecology report submitted so that the progress continue forward. Thanks.

*Peter B. Emmanuel, D7 Program Manager
for DeKalb, Clayton, & Rockdale Co., 404-631-1158
GDOT's Office of Program Delivery*

From: Emmanuel, Peter
Sent: Monday, June 29, 2015 5:57 PM
To: McManus, Brad; Beck, Susan; Pruett, Hannah L; Cindy Jenkins; Thomas Black; Brad Robinson; Mario Macrina (mario.macrina@wolverton-assoc.com); David Chastant; Shelby, Albert; warren.lee@johnscreekga.gov; Rabun, Ben
Subject: RE: 0012788: Bridge or Culvert - Action Items

Thank you Brad and Susan for the feedbacks. The cost of a proposed bridge in addition to the future cost of a bridge maintenance on a State Route is worth a lot of consideration. If the structural capacity of the culvert is okay based on the load rating result, I will discuss with the COJC and provide update on the next step forward.

*Peter B. Emmanuel, D7 Program Manager
for DeKalb, Clayton, & Rockdale Co., 404-631-1158
GDOT's Office of Program Delivery*

From: McManus, Brad
Sent: Friday, June 26, 2015 4:02 PM
To: Beck, Susan; Emmanuel, Peter; Pruett, Hannah L; Cindy Jenkins; Thomas Black; Brad Robinson; Mario Macrina (mario.macrina@wolverton-assoc.com); David Chastant; Shelby, Albert; warren.lee@johnscreekga.gov; Rabun, Ben
Subject: RE: 0012788: Bridge or Culvert - Action Items

Assuming it is a culvert you will need to send the H&H study to GDOT's Design Policy office for concurrence.

Brad McManus, PE
Design Group Manager
GDOT, Office of Design Policy and Support
26th floor
600 West Peachtree Street
Atlanta, Georgia 30308
Phone 404 631 1630
Mobile 470 848 2358 (personal)
fax 404 631 1949

From: Beck, Susan
Sent: Friday, June 26, 2015 2:07 PM
To: Emmanuel, Peter; McManus, Brad; Meyers, Sharilyn; Pruett, Hannah L; Cindy Jenkins; Thomas Black;

Brad Robinson; Mario Macrina (mario.macrina@wolverton-assoc.com); David Chastant; Shelby, Albert; 'warren.lee@johnscreekga.gov'; Rabun, Ben
Cc: Dollar, Robert (Bobby); Chamblin, Douglas
Subject: RE: 0012788: Bridge or Culvert - Action Items

Peter,

I spoke with Ben Rabun about the proposed bridge vs. extending/adding barrels to the existing culvert. Ben pointed out the following:

- The existing culvert is only 38 years old with a sufficiency rating of 98.2
- The proposed bridge will cost \$1M more than the proposed culvert extension and additional barrels.
- The proposed bridge will have added future maintenance costs.

Based on the factors listed above and the information provided, the State Bridge Engineer does not support replacing the existing culvert with the proposed bridge. A load rating on the existing culvert has been requested from the Office of Bridge Maintenance to verify its structural capacity.

Susan T. Beck, P.E.
Office of Bridges and Structures – Hydraulics
One Georgia Center
600 W. Peachtree St., NW – 24th Floor
Atlanta, GA 30308
(404) 631-1862 (Direct)
(404) 631-1954 (Fax)
Email: sbeck@dot.ga.gov

From: Emmanuel, Peter
Sent: Friday, June 26, 2015 12:25 PM
To: Beck, Susan; McManus, Brad; Meyers, Sharilyn; Pruett, Hannah L; Cindy Jenkins; Thomas Black; Brad Robinson; Mario Macrina (mario.macrina@wolverton-assoc.com); David Chastant; Shelby, Albert; 'warren.lee@johnscreekga.gov'
Cc: Dollar, Robert (Bobby); Chamblin, Douglas
Subject: 0012788: Bridge or Culvert - Action Items

Good Afternoon – Please find attached the action items from today's meeting:

- City of Johns Creek (COJC), OPD, OES, & Design Policy/Support prefers Bridge instead of culverts over SR 120 for many reasons such as ease of construction, maintenance, fish passage, i.e.
- Susan will inquire from Ben Rabun if Bridge over SR 120 instead of culverts widening is acceptable.
- If Ben Rabun concur, the COJC will procure their consultant, Wolverton & Associates, for the necessary engineering work, i.e., Bridge design, BFI, Hydraulic Study, etc.
- Wolverton will submit the Ecology report and begin the Environmental document write-up.

- This project will require Nationwide permits/Stream Buffer Variance
- Wolverton will re-evaluate the MS4 Study for revision if necessary and coordinate with Brad McManus.
- With a proposed bridge, Wolverton will evaluate the impact to the Transmission line for constructability, and to ensure crane can get and station on the site to build the proposed bridge.
- Wolverton to verify and provide the Preliminary parcel count for Right of Way to Peter

Thank you.

*Peter B. Emmanuel, D7 Program Manager
for DeKalb, Clayton, & Rockdale Co., 404-631-1158
GDOT's Office of Program Delivery*

-----Original Appointment-----

From: Emmanuel, Peter

Sent: Wednesday, June 24, 2015 6:08 AM

To: 25CR2L2 (Large); Cindy Jenkins; Thomas Black; Shakir-Greer, Amber R.; Dollar, Robert (Bobby); Brad Robinson; Mario Macrina (mario.macrina@wolverton-assoc.com); Pruett, Hannah L; David Chastant; Beck, Susan

Cc: Chamblin, Douglas; McManus, Brad; Meyers, Sharilyn

Subject: 0012788: Bridge or Culvert - Please Review & Advise

When: Friday, June 26, 2015 10:30 AM-11:30 AM (UTC-05:00) Indiana (East).

Where: OGC OPD Conference Room

Importance: High

This is to discuss the bridge vs. culvert options and determine the practical alternative for the design.

Thank you.

*Peter B. Emmanuel, D7 Program Manager
for DeKalb, Clayton, & Rockdale Co., 404-631-1158
GDOT's Office of Program Delivery*

Traffic fatalities are on the rise since the beginning of 2015 and Georgia could see the first increase in nine years! Many of these fatalities are the result of distracted driving. DriveAlert ArriveAlive implores motorists to drive responsibly. 1—buckle up; 2—stay off the phone/no texting; and 3—drive alert. Visit www.dot.ga.gov/DS/SafetyOperation/DAAA. #ArriveAliveGA