

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. # 321530-
STP00-0163-01(011)
Henry County
GDOT District 3 - Thomaston
SR 20/SR 81/SR 920 East-West 1-Way Pair in
McDonough

OFFICE Design Policy & Support

DATE 2/8/2016

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
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
Andy Casey, State Roadway Design Engineer
Attn: Clay Bastian, Design Group Manager
Michael Presley, District Engineer
Adam Smith, District Preconstruction Engineer
Scott Parker, District Utilities Engineer
Cherral Dempsey, Project Manager
BOARD MEMBER - 10th Congressional District

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

Project Type: Reconstruction P.I. Number: 321530-
 GDOT District: 3 County: Henry
 Federal Route Number: N/A State Route Number: 20/ 81/ 920
 Project Number: STP00-0163-01(011)

The significant change to the concept report for this project is the addition of a roundabout at the intersection of Jonesboro Road and Doris Street, and drainage improvements along Jonesboro Road from Marian's Way to SR 42/Griffin Street.

Submitted for approval:

<u>C. Andy Cury</u> State Roadway Design Engineer		<u>5-6-15</u> Date
<u>Albert Shelby</u> State Program Delivery Engineer	<u>BNA</u>	<u>9.9.15</u> Date
<u>Wendell Jensen</u> GDOT Project Manager	<u>(KESD)</u>	<u>7/17/15</u> Date

Recommendation for approval:

<u>Hiral Patel*/EKP</u> State Environmental Administrator		<u>1/15/16</u> Date
<u>KEN WERHO*/EKP</u> <i>FOR</i> State Traffic Engineer		<u>9/16/15</u> 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).

CINDY VAN DYKE*/EKP 9/16/15
 State Transportation Planning Administrator Date

** - RECOMMENDATION ON FILE*

County: Henry

PLANNING, APPROVED CONCEPT, AND BACKGROUND

Project Justification Statement: This project is the result of a 1992 planning study involving the City of McDonough, Henry County and the GDOT Office of Planning and Office of Traffic Operations. It consists of east-west one-way pairing of Jonesboro Street / Covington Road and Keys Ferry Road. The project was first identified in a 1986 planning study conducted by the Georgia Department of Transportation’s Office of Planning which concluded that, in order to accommodate future growth and improve safety and mobility in and through McDonough, these improvements would have been needed by 1996. The implementation of this project will significantly improve traffic flow in McDonough. This project conforms to local plans for transportation and comprehensive development.

Existing conditions: The existing roadway consists of four 10-foot wide lanes (two lanes in each direction) and varying width urban shoulders with sidewalk between Rosebud Lane and Whisper Wind Drive, and tapers down to a 2 lane rural section between Whisper Wind Drive and Doris Street.

Description of the approved concept: The project begins just west of the Southern Railroad on Jonesboro Street with the eastbound lanes on SR 81/SR 20 and the westbound lanes on Jonesboro Street/Covington Road to a point approximately 2500 feet east of Cedar Street. Connections on both ends will be constructed on new alignment. Two traffic lanes with parking will be provided except three traffic lanes will be provided in each direction from SR 42 (Macon Street) to Cedar Street.

Federal Oversight: PoDI Exempt State Funded Other

Projected Traffic as shown in the approved Concept Report: AADT
 Open Year (1998): 24,350 Design Year (2018): 42,650

Updated Traffic: ADT 24 HR T: 4 %
 Open Year (2015): 35,150 Design Year (2035): 47,400

Functional Classification (Mainline): Urban Minor Arterial Street

VE Study anticipated: No Yes Completed – Date: 02/14/2011

PROPOSED REVISIONS

Approved Features:	Proposed Features:
	A roundabout will be added at the intersection of Jonesboro Road and Doris Street. Drainage improvements will be made along Jonesboro Road from Marian’s Way to SR 42 / Griffin Street which include a longitudinal system and possible replacement of sidewalk and granite curb.
<p>Reason(s) for change: The City of McDonough is building a park with a driveway entrance across from Doris Street. A signal was not warranted and a roundabout was determined to be the most feasible alternative. The City also requested drainage improvements be made along Jonesboro Road.</p>	

Design Variances and/or Exceptions needed: N/A

County: Henry

ENVIRONMENTAL AND PERMITS

Potential environmental impacts of proposed revision: The proposed drainage improvements are located within a historic resource and trees may be impacted. Additional studies are required to determine impacts for both the proposed roundabout and drainage improvements.

Have proposed revisions been reviewed by environmental staff? No Yes

Environmental responsibilities (Studies/Documents/Permits): GDOT

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: A section 4(f) evaluation may be required if adverse effect to historical resources is found. A de minimis letter is the expected level of documentation to handle coordination with the future city park. The roundabout has not been surveyed for archaeological resources, and studies must be undertaken to identify potentially eligible resources and the project effects to those resources.

County: Henry

PROJECT COST AND ADDITIONAL INFORMATION

Item	Estimated Cost	Date of Estimate	Funded By
Base Construction Cost:	6,535,089.56	4/9/2015	
Engineering and Inspection:	0 326,759.18 (ERP)		
Contingencies:	0		
Liquid AC Adjustment:	359,181.80		(ERP)
<u>Total Construction Cost:</u>	6,894,271.36 → 7,221,025.89		
Right-of-Way:	8,000,000.00		GDOT
Utilities (reimbursable costs):	641,000.00	9/25/2015	GDOT
Environmental Mitigation:	N/A		N/A
TOTAL PROJECT COST:	15,535,271.36	15,862,025.89 (ERP)	

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

Comments:

Attachments:

1. Sketch map
2. Cost Estimate(s)
3. Typical Sections
4. Proposed Layout of Roundabout and Drainage Improvement
5. Project Layout
6. Updated Traffic
7. Executed Lighting Agreement

APPROVALS

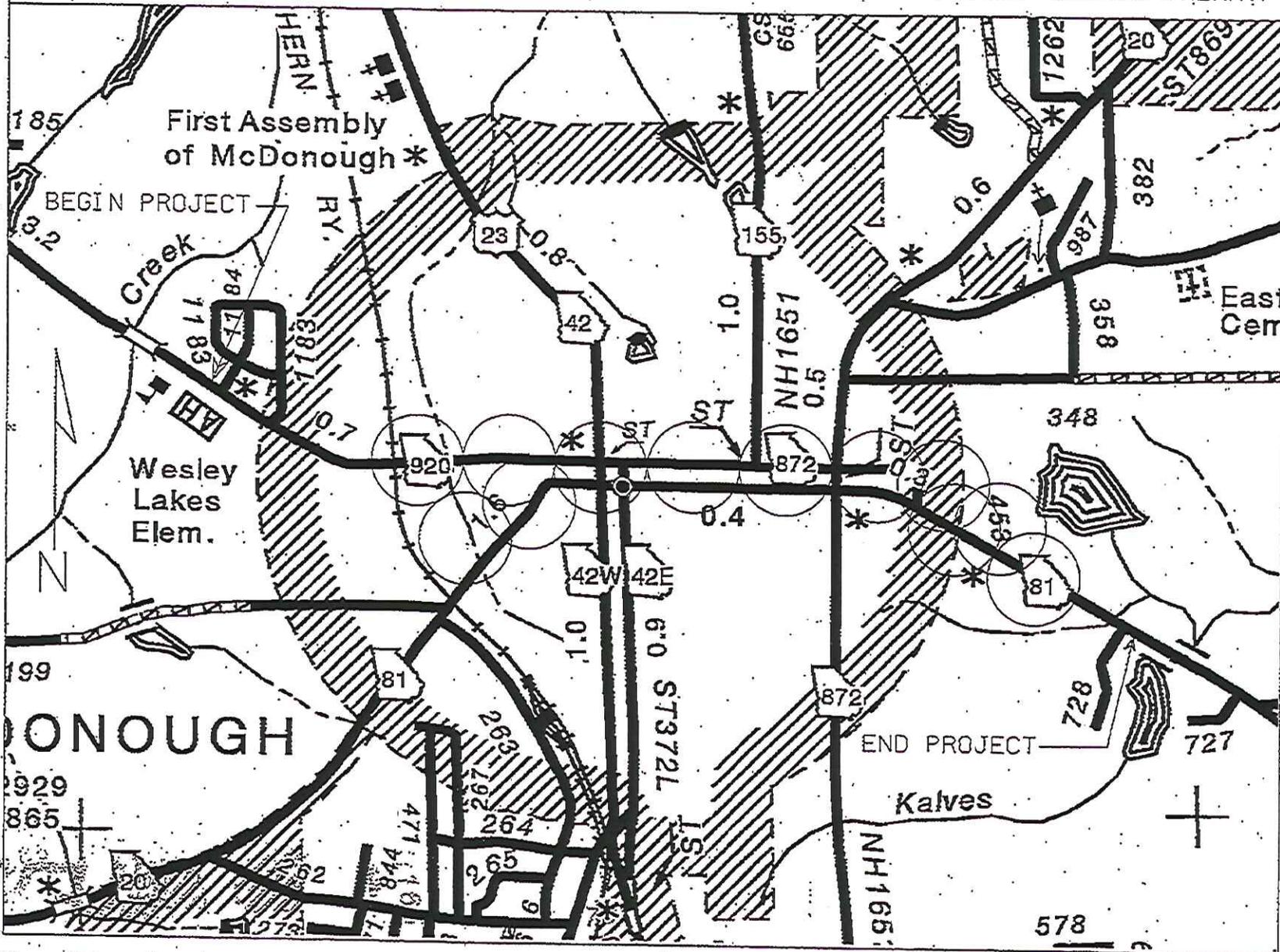
Concur: Heidi Kettel
Director of Engineering

Approve: Margaret B. Pirkle
Chief Engineer

2.2.16
Date

LOCATION SKETCH
MCDONOUGH - E/W PAIR

PROJECT NO. STP00-0163-01(011)
PI. NO. 321530 (HENRY)



DETAILED COST ESTIMATE



Job: 321530

JOB NUMBER 321530

FED/STATE PROJECT NUMBER

SPEC YEAR: 13

DESCRIPTION: EAST-WEST ONE-WAY PAIR IN THE CITY OF MCDONOUGH

ITEMS FOR JOB 321530

1 - ROADWAY

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0005	150-1000	1.000	LS	\$150,000.00000	TRAFFIC CONTROL - STP00-0163-01(011)	\$150,000.00
0010	153-1300	1.000	EA	\$70,000.00000	FIELD ENGINEERS OFFICE TP 3	\$70,000.00
0294	163-0232	5.050	AC	\$271.62230	TEMPORARY GRASSING	\$1,371.69
0299	163-0240	288.110	TN	\$180.78080	MULCH	\$52,084.76
0304	163-0300	10.000	EA	\$1,233.79960	CONSTRUCTION EXIT	\$12,338.00
0309	163-0503	5.000	EA	\$410.30163	CONSTR AND REMOVE SILT CONTROL GATE, TP 3	\$2,051.51
0314	163-0527	36.000	EA	\$268.87628	CNST/REM RIP RAP CKDM,STN P RIPRAP/SN BG	\$9,679.55
0319	163-0528	2750.000	LF	\$3.35319	CONSTR AND REM FAB CK DAM -TP C SLT FN	\$9,221.27
0324	163-0541	6.000	EA	\$578.31094	CONSTR & REM ROCK FILTER DAMS	\$3,469.87
0329	163-0542	8.000	EA	\$500.00000	CONSTR & REM STONE FILTER RING	\$4,000.00
0334	163-0543	1121.000	LF	\$25.00000	CONSTR & REM STONE FILTER BERM	\$28,025.00
0339	163-0550	97.000	EA	\$126.26762	CONS & REM INLET SEDIMENT TRAP	\$12,247.96
0344	165-0030	13188.000	LF	\$0.47328	MAINT OF TEMP SILT FENCE, TP C	\$6,241.62
0349	165-0041	3110.000	LF	\$1.30866	MAINT OF CHECK DAMS - ALL TYPES	\$4,069.93
0354	165-0087	5.000	EA	\$107.09539	MAINT OF SILT CONTROL GATE, TP 3	\$535.48
0359	165-0101	10.000	EA	\$569.89026	MAINT OF CONST EXIT	\$5,698.90
0364	165-0105	97.000	EA	\$33.07394	MAINT OF INLET SEDIMENT TRAP	\$3,208.17
0369	165-0110	6.000	EA	\$141.40216	MAINT OF ROCK FILTER DAM	\$848.41
0374	165-0111	8.000	EA	\$150.00000	MAINT OF STONE FILTER RING	\$1,200.00
0379	165-0112	1121.000	LF	\$8.50000	MAINT OF STONE FILTER BERM	\$9,528.50
0384	167-1000	2.000	EA	\$223.90607	WATER QUALITY MONITORING AND SAMPLING	\$447.81
0389	167-1500	18.000	MO	\$493.47359	WATER QUALITY INSPECTIONS	\$8,882.52
0394	171-0030	26375.000	LF	\$2.81645	TEMPORARY SILT FENCE, TYPE C	\$74,283.87
0015	207-0203	297.000	CY	\$40.00000	FOUND BKFILL MATL, TP II	\$11,880.00
0020	210-0100	1.000	LS	\$1,274,000.00000	GRADING COMPLETE - STP00-0163-01(011)	\$1,274,000.00
0025	310-1101	26053.000	TN	\$16.50000	GR AGGR BASE CRS, INCL MATL	\$429,874.50
0028	318-3000	514.720	TN	\$19.67738	AGGR SURF CRS	\$10,128.34
0029	402-1812	1000.000	TN	\$78.77435	RECYL AC LEVELING,INC BM&HL	\$78,774.35
0030	402-3121	13257.000	TN	\$60.00000	RECYL AC 25MM SP,GP1/2,BM&HL	\$795,420.00
0035	402-3130	3818.000	TN	\$66.00000	RECYL AC 12.5MM SP,GP2,BM&HL	\$251,988.00
0040	402-3190	4628.000	TN	\$63.00000	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	\$291,564.00
0039	402-4510	1847.000	TN	\$86.57096	RECYL AC 12.5 MM SP,GP2ONLY,INC P-MBM&HL	\$159,896.56
0045	413-1000	6558.000	GL	\$2.50000	BITUM TACK COAT	\$16,395.00
0048	430-0200	750.000	SY	\$60.00000	PLN PC CONC PVMT/CL1C/ 10 TK	\$45,000.00
0049	432-0206	28982.000	SY	\$1.90223	MILL ASPH CONC PVMT/ 1.50 DEP	\$55,130.43
0054	441-0014	263.000	SY	\$28.92000	DRIVEWAY CONCRETE, 4 IN TK	\$7,605.96
0050	441-0016	402.000	SY	\$28.00000	DRIVEWAY CONCRETE, 6 IN TK	\$11,256.00
0055	441-0104	7737.000	SY	\$22.00000	CONC SIDEWALK, 4 IN	\$170,214.00
0059	441-0108	590.800	SY	\$44.14449	CONC SIDEWALK, 8 IN	\$26,080.56
0060	441-0204	4.000	SY	\$25.00000	PLAIN CONC DITCH PAVING, 4 IN	\$100.00
0069	441-0740	839.000	SY	\$25.96014	CONC MEDIAN, 4 IN	\$21,780.56

DETAILED COST ESTIMATE



Job: 321530

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0070	441-0748	2339.000	SY	\$24.00000	CONC MEDIAN, 6 IN	\$56,136.00
0078	441-4020	614.300	SY	\$36.16705	CONC VALLEY GUTTER, 6 IN	\$22,217.42
0079	441-4030	49.200	SY	\$44.65611	CONC VALLEY GUTTER, 8 IN	\$2,197.08
0083	441-5004	1600.000	LF	\$15.87495	CONC HEADER CURB, 10, TP 4	\$25,399.92
0084	441-5008	239.000	LF	\$12.68660	CONC HEADER CURB, 6 IN, TP 7	\$3,032.10
0088	441-5025	377.000	LF	\$12.26000	CONC HEADER CURB, 4, TP 9	\$4,622.02
0089	441-6222	18261.000	LF	\$12.46419	CONC CURB & GUTTER/ 8X30TP2	\$227,608.57
0094	441-6740	1292.000	LF	\$10.50000	CONC CURB & GUTTER/ 8X30 TP7	\$13,566.00
0099	446-1100	598.000	LF	\$7.39623	PVMT REF FAB STRIPS, TP2,18 INCH WIDTH	\$4,422.95
0103	456-2015	0.130	GLM	\$948.32420	INDENT. RUMB. STRIPS - GRND-IN-PL (SKIP)	\$123.28
0104	500-3101	763.000	CY	\$375.00000	CLASS A CONCRETE	\$286,125.00
0109	500-3800	18.920	CY	\$919.64915	CL A CONC, INCL REINF STEEL	\$17,399.76
0114	500-9999	100.000	CY	\$173.77963	CL B CONC,BASE OR PVMT WIDEN	\$17,377.96
0119	511-1000	99603.000	LB	\$0.60000	BAR REINF STEEL	\$59,761.80
0124	550-1180	10159.000	LF	\$30.00000	STM DR PIPE 18,H 1-10	\$304,770.00
0129	550-1240	1690.000	LF	\$45.39251	STM DR PIPE 24,H 1-10	\$76,713.34
0134	550-1300	369.000	LF	\$60.96174	STM DR PIPE 30,H 1-10	\$22,494.88
0139	550-1360	70.000	LF	\$66.00000	STM DR PIPE 36,H 1-10	\$4,620.00
0144	550-1420	145.000	LF	\$76.00000	STM DR PIPE 42,H 1-10	\$11,020.00
0149	550-1480	93.000	LF	\$102.69119	STM DR PIPE 48,H 1-10	\$9,550.28
0154	550-1541	96.000	LF	\$125.00000	STM DR PIPE 54,H 10-15	\$12,000.00
0159	550-4218	5.000	EA	\$470.00000	FLARED END SECT 18 IN, ST DR	\$2,350.00
0164	550-4224	1.000	EA	\$646.36701	FLARED END SECT 24 IN, ST DR	\$646.37
0169	550-4230	1.000	EA	\$730.84414	FLARED END SECT 30 IN, ST DR	\$730.84
0174	550-4236	2.000	EA	\$925.00000	FLARED END SECT 36 IN, ST DR	\$1,850.00
0179	550-4242	3.000	EA	\$1,350.00000	FLARED END SECT 42 IN, ST DR	\$4,050.00
0184	603-2024	525.500	SY	\$44.00000	STN DUMPED RIP RAP, TP 1, 24	\$23,122.00
0189	603-7000	525.500	SY	\$3.50000	PLASTIC FILTER FABRIC	\$1,839.25
0194	610-9008	1.000	LS	\$10,000.00000	REM PR EX CLVT INC WWL/PPT STA STA 14+27.04	\$10,000.00
0199	610-9099	1.000	LS	\$1,500.00000	REM WINGWALLS/PARAPETS, STA - STA 16+33.27	\$1,500.00
0204	611-8040	1.000	EA	\$983.55199	ADJUST DROP INLET TO GRADE	\$983.55
0209	615-1000	55.000	LF	\$235.53484	JACK OR BORE PIPE - STEEL,CLASS 0.625, 18IN	\$12,954.42
0213	615-1100	1170.000	LF	\$24.11519	DIRECTIONAL BORE PIPE - SIGNALS - 3"	\$28,214.77
0214	621-4021	302.000	LF	\$225.00000	CONCRETE SIDE BARRIER, TY 2A	\$67,950.00
0219	627-1000	375.000	SF	\$34.00000	MSE WALL FACE, 0 - 10 FT HT, WALL NO - WALL NO 1	\$12,750.00
0224	627-1000	1100.000	SF	\$34.00000	MSE WALL FACE, 0 - 10 FT HT, WALL NO - WALL NO 2	\$37,400.00
0229	627-1010	1948.000	SF	\$40.00000	MSE WALL FACE, 10 - 20 FT HT, WALL NO - WALL NO 1	\$77,920.00
0234	627-1160	342.000	LF	\$195.00000	TRAFFIC BARRIER H, WALL NO - WALL NO 1 AND 2	\$66,690.00
0239	634-1200	138.000	EA	\$104.21957	RIGHT OF WAY MARKERS	\$14,382.30
0434	636-1020	659.530	SF	\$12.86969	HWY SGN,TP1MAT,REFL SH TP3	\$8,487.95
0438	636-1029	423.000	SF	\$15.31409	HWY SGN,TP2 MATL,REFL SH TP 3	\$6,477.86
0439	636-1033	859.970	SF	\$16.26947	HWY SIGNS, TP1MAT,REFL SH TP 9	\$13,991.26
0444	636-1041	2156.000	SF	\$33.84018	HWY SIGNS,TP 2MAT,REFL SH TP 9	\$72,959.43
0449	636-2070	1524.000	LF	\$5.75047	GALV STEEL POSTS, TP 7	\$8,763.72
0454	636-2080	373.000	LF	\$8.89799	GALV STEEL POSTS, TP 8	\$3,318.95
0459	636-2090	380.000	LF	\$6.84002	GALV STEEL POSTS, TP 9	\$2,599.21
0464	636-3010	18.000	EA	\$454.82724	GROUND-MOUNTED BREAKAWAY SIGN SUPPORT	\$8,186.89
0574	639-3014	7.000	EA	\$7,000.00000	STEEL STR POLE,TP 4,LUMIN ARM	\$49,000.00
0244	643-0010	1304.000	LF	\$6.02943	FIELD FENCE WOVEN WIRE	\$7,862.38
0249	643-8000	3.000	EA	\$598.23816	GATE, FIELD FENCE - WOOVEN WIRE	\$1,794.71
0399	643-8200	418.000	LF	\$1.45809	BARRIER FENCE (ORANGE), 4 FT	\$609.48
0579	647-1000	1.000	LS	\$60,000.00000	TRAF SIGNAL INSTALLATION NO - SIGNAL INST NO 1	\$60,000.00
0584	647-1000	1.000	LS	\$60,000.00000	TRAF SIGNAL INSTALLATION NO - SIGNAL INST NO 2	\$60,000.00

DETAILED COST ESTIMATE



Job: 321530

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0589	647-1000	1.000	LS	\$60,000.00000	TRAF SIGNAL INSTALLATION NO - SIGNAL INST NO 3	\$60,000.00
0594	647-1000	1.000	LS	\$60,000.00000	TRAF SIGNAL INSTALLATION NO - SIGNAL INST NO 4	\$60,000.00
0599	647-2140	5.000	EA	\$1,150.00000	PULL BOX, PB-4	\$5,750.00
0604	647-2150	2.000	EA	\$1,675.00000	PULL BOX, PB-5	\$3,350.00
0469	652-0091	0.000	EA	\$55.00000	PVMT MARKING, SYMBOL, TP 1	\$0.00
0474	652-0094	11.000	EA	\$56.11797	PVMT MARKING, SYMBOL, TP 4	\$617.30
0479	652-5301	4043.000	LF	\$0.25084	SOLID TRAF STRIPE, 6 IN, WHITE	\$1,014.15
0484	652-5451	3853.000	LF	\$0.22782	SOLID TRAF STRIPE, 5 IN, WHITE	\$877.79
0489	652-6301	1190.000	GLF	\$0.13172	SKIP TRAF STRIPE, 6 IN, WHITE	\$156.75
0494	652-6501	1190.000	GLF	\$0.10898	SKIP TRAF STRIPE, 5 IN, WHITE	\$129.69
0499	653-0100	4.000	EA	\$406.61018	THERM PVMT MARK, RR/HWY X SYM	\$1,626.44
0504	653-0120	55.000	EA	\$75.33050	THERM PVMT MARK, ARROW, TP 2	\$4,143.18
0509	653-0170	4.000	EA	\$96.53436	THERM PVMT MARK, ARROW, TP 7	\$386.14
0514	653-0210	5.000	EA	\$107.70168	THERM PVMT MARK, WORD , TP 1	\$538.51
0518	653-0296	5.000	EA	\$181.12000	THERMO PVMT MARKING,WORD,TP 15	\$905.60
0519	653-1501	22453.000	LF	\$0.41340	THERMO SOLID TRAF ST 5 IN, WHI	\$9,282.07
0524	653-1502	21370.000	LF	\$0.41190	THERMO SOLID TRAF ST, 5 IN YEL	\$8,802.30
0529	653-1704	468.000	LF	\$5.91947	THERM SOLID TRAF STRIPE,24,WH	\$2,770.31
0534	653-1804	5220.000	LF	\$2.00707	THERM SOLID TRAF STRIPE, 8,WH	\$10,476.91
0539	653-3501	15064.000	GLF	\$0.26271	THERMO SKIP TRAF ST, 5 IN, WHI	\$3,957.46
0543	653-4830	159.000	GLF	\$0.59000	THER SKIP TRAF ST, 18 IN, WHT	\$93.81
0544	653-6004	1308.810	SY	\$3.55850	THERM TRAF STRIPING, WHITE	\$4,657.40
0549	653-6006	749.110	SY	\$3.54786	THERM TRAF STRIPING, YELLOW	\$2,657.74
0554	654-1001	100.000	EA	\$4.21777	RAISED PVMT MARKERS TP 1	\$421.78
0559	654-1003	380.000	EA	\$3.35316	RAISED PVMT MARKERS TP 3	\$1,274.20
0564	654-1010	12.000	EA	\$34.53240	RAISED PVMT MARKERS TP 10	\$414.39
0254	668-1100	86.000	EA	\$1,750.00000	CATCH BASIN, GP 1	\$150,500.00
0259	668-1110	21.000	LF	\$183.53237	CATCH BASIN, GP 1, ADDL DEPTH	\$3,854.18
0264	668-1200	3.000	EA	\$2,629.33631	CATCH BASIN, GP 2	\$7,888.01
0269	668-1210	11.000	LF	\$232.02845	CATCH BASIN, GP 2, ADDL DEPTH	\$2,552.31
0274	668-2100	30.000	EA	\$1,600.00000	DROP INLET, GP 1	\$48,000.00
0279	668-4300	1.000	EA	\$1,868.59177	STORM SEW MANHOLE, TP 1	\$1,868.59
0284	668-4311	1.000	LF	\$203.74053	ST SEW MANHOLE,TP 1,A DEP,CL 1	\$203.74
0289	668-5000	1.000	EA	\$1,736.98815	JUNCTION BOX	\$1,736.99
0609	682-6233	2370.000	LF	\$3.66588	CONDUIT, NONMETL, TP 3, 2 IN	\$8,688.14
0614	682-9010	1.000	EA	\$2,500.00000	SVC POLE RISER	\$2,500.00
0404	700-6910	10.090	AC	\$988.41651	PERMANENT GRASSING	\$9,973.12
0409	700-7000	45.440	TN	\$80.40425	AGRICULTURAL LIME	\$3,653.57
0414	700-8000	13.120	TN	\$538.38563	FERTILIZER MIXED GRADE	\$7,063.62
0419	700-8100	505.000	LB	\$2.46255	FERTILIZER NITROGEN CONTENT	\$1,243.59
0424	710-9000	1381.000	SY	\$4.67184	PERM SOIL REINFORCING MAT	\$6,451.81
0429	716-2000	11137.000	SY	\$0.98933	EROSION CONTROL MATS, SLOPES	\$11,018.17
0619	926-2035	5.000	EA	\$2,800.00000	RACK MNT SPRD SPECT WIREL TRANSC W/FSK	\$14,000.00
0624	926-2040	5.000	EA	\$2,243.33000	2070 MNT SPRD SPECT WIREL TRANSC W/RS	\$11,216.65
0629	926-2060	5.000	EA	\$3,000.00000	SELF CONT SPRD SPECT WIREL RADIO REPTR	\$15,000.00
0634	926-2075	8.000	EACH	\$733.00000	900Mhz DIR RADIO ANT AND CONN CABLE	\$5,864.00
0639	926-2095	5.000	EACH	\$500.00000	900Mhz ANTENNA PWR DIVIDER	\$2,500.00
0649	926-3010	1.000	LS	\$662.50000	SPRD SPECT WIRELESS TRAINING	\$662.50
0644	926-4000	5.000	EA	\$1,221.00000	SPRD SPECT WIREL RADIO SURVEY	\$6,105.00
0654	935-1115	2480.000	LF	\$2.57382	OUT PLNT FBR OPT CBL,LOOSE TB,SM,48 FBR	\$6,383.07
0659	935-1511	500.000	LF	\$1.48246	OUT PLNT FBR OPT CBL,DROP,SM,6 FBR	\$741.23
0664	935-3105	3.000	EA	\$600.00000	FIBER OPTIC CLOSURE,UNDRGRD,48 FIBER	\$1,800.00
0669	935-3401	4.000	EA	\$410.00000	FBR OPTIC CLOSURE,FDC(RACK MTD),6 FBR	\$1,640.00

DETAILED COST ESTIMATE



Job: 321530

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0674	935-4010	18.000	EA	\$47.78231	FIBER OPTIC SPLICE, FUSION	\$860.08
0679	935-5050	8.000	EA	\$110.00000	FIBER OPTIC PATCH CORD, SM	\$880.00
0684	935-8000	1.000	LS	\$1,500.00000	TESTING	\$1,500.00
0689	935-8500	1.000	LS	\$2,500.00000	TRAINING	\$2,500.00
0694	939-2305	2.000	EA	\$1,805.25067	FIELD SWITCH, TYPE C	\$3,610.50
<i>SUBTOTAL FOR ROADWAY:</i>						\$6,503,829.57

Line Number	ITEM	QUANTITY	UNITS	PRICE	DESCRIPTION	AMOUNT
0077	441-0754	660.000	SY	\$47.36362	CONC MEDIAN, 7 1/2 IN	\$31,259.99
<i>SUBTOTAL FOR :</i>						\$31,259.99

TOTALS FOR JOB 321530

ITEMS COST:	\$6,535,089.56
COST GROUP COST:	\$0.00
ESTIMATED COST:	\$6,535,089.56
CONTINGENCY PERCENT:	0.00
ENGINEERING AND INSPECTION:	0.05
ESTIMATED COST WITH CONTINGENCY AND E&I:	\$6,861,844.04

PROJ. NO.	STP00-0163-01(011)
P.I. NO.	321530
DATE	8/26/2015

CALL NO.

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Aug-15	\$ 2.497
DIESEL		\$ 2.725
LIQUID AC		\$ 470.00

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)				346155		\$ 346,155.00
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	752.00		
Monthly Asphalt Cement Price month project let (APL)			\$	470.00		
Total Monthly Tonnage of asphalt cement (TMT)				1227.5		

ASPHALT	Tons	%AC	AC ton
Leveling	1000	5.0%	50
12.5 OGFC		5.0%	0
12.5 mm	5665	5.0%	283.25
9.5 mm SP	0	5.0%	0
25 mm SP	13257	5.0%	662.85
19 mm SP	4628	5.0%	231.4
	24550		1227.5

BITUMINOUS TACK COAT

Price Adjustment (PA)				\$ 7,943.17		\$ 7,943.17
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	752.00		
Monthly Asphalt Cement Price month project let (APL)			\$	470.00		
Total Monthly Tonnage of asphalt cement (TMT)				28.16727185		

Bitum Tack

Gals	gals/ton	tons
6558	232.8234	28.1672718

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				5083.629223		\$ 5,083.63
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	752.00		
Monthly Asphalt Cement Price month project let (APL)			\$	470.00		
Total Monthly Tonnage of asphalt cement (TMT)				18.02705398		

Bitum Tack

	SY	Gals/SY	Gals	gals/ton	tons
Single Surf. Trmt.	6558	0.20	1311.6	232.8234	5.633454369
Double Surf. Trmt.	6558	0.44	2885.52	232.8234	12.39359961
Triple Surf. Trmt		0.71	0	232.8234	0
					18.02705398

TOTAL LIQUID AC ADJUSTMENT **\$ 359,181.80**

DEPARTMENT OF TRANSPORTATION STATE OF GEORGIA

INTERDEPARTMENT CORRESPONDENCE

FILE **STP00-0163-01(011), Henry County, P.I. # 321530** OFFICE Thomaston
East-West 1-Way Pair from W of NS #718408K to E of Henry St
DATE February 10, 2015

FROM Kerry Gore, District Utilities Engineer

TO Merishia Robinson, Project Manager

SUBJECT **PRELIMINARY UTILITY COST (ESTIMATE)**

As requested by your office, we are furnishing you with a Preliminary Utility Cost estimate for each utility with facilities potentially located within the project limits.

<u>FACILITY OWNER</u>	<u>NON-REIMBURSABLE</u>	<u>REIMBURSABLE</u>
Atlanta Gas Light	221,000	
BellSouth d/b/a AT&T	144,000	
Charter Communications	44,000	
City of McDonough	294,000	309,000
Georgia Power (Distribution)		332,000
TOTALS	\$ 703,000	\$ 641,000

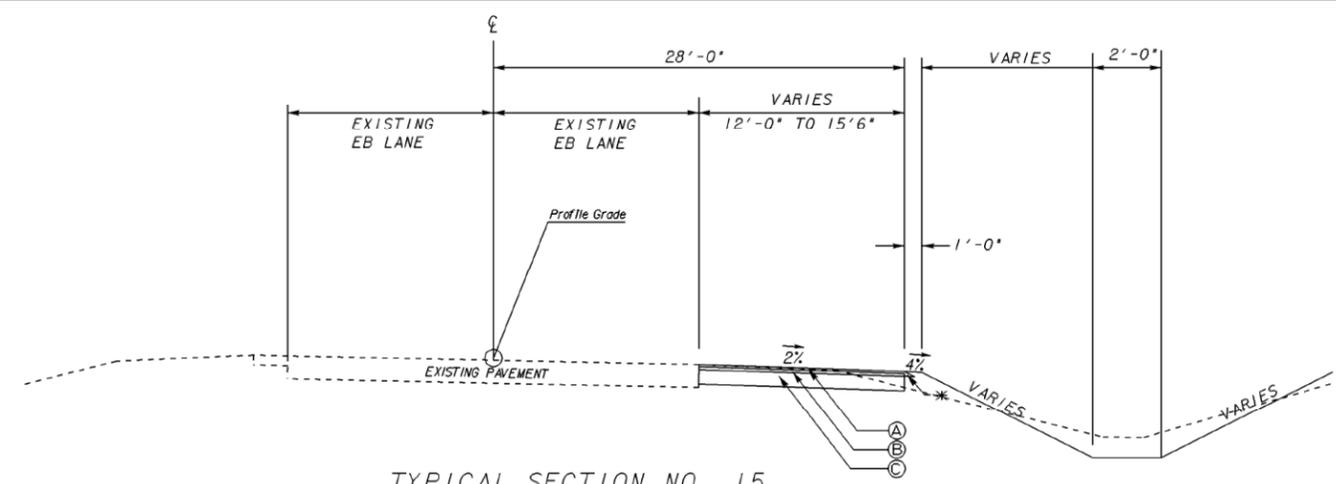
Total Preliminary Utility Cost Estimate **1,344,000**.

If you have any questions, please contact Tyler Peek at 706-646-7605.

KG/TP

cc: Mike Bolden, State Utilities Engineer (*via: e-mail*)
Angela Robinson, Office of Financial Management (*via: e-mail*)
Mike Williams, Area Engineer (*via: e-mail*)

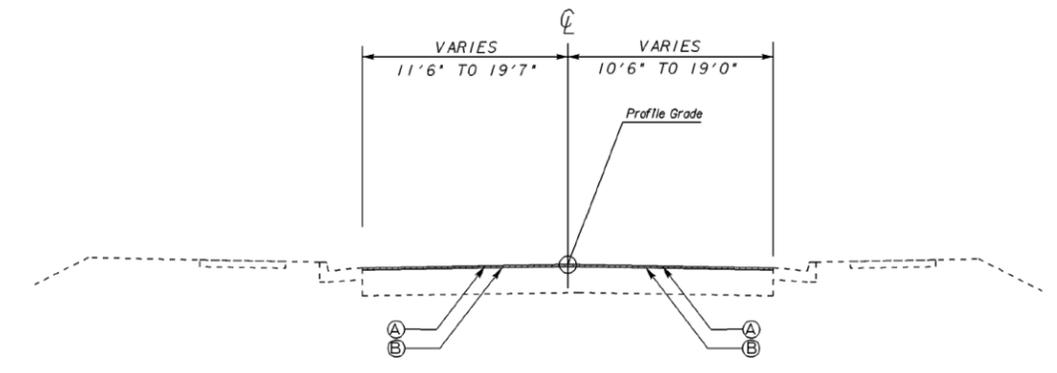
STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	STP00-0163-01(011)		



TYPICAL SECTION NO. 15
 TEMPORARY PAVEMENT
 EASTBOUND PAIR - SEE STAGING PLANS FOR LOCATIONS

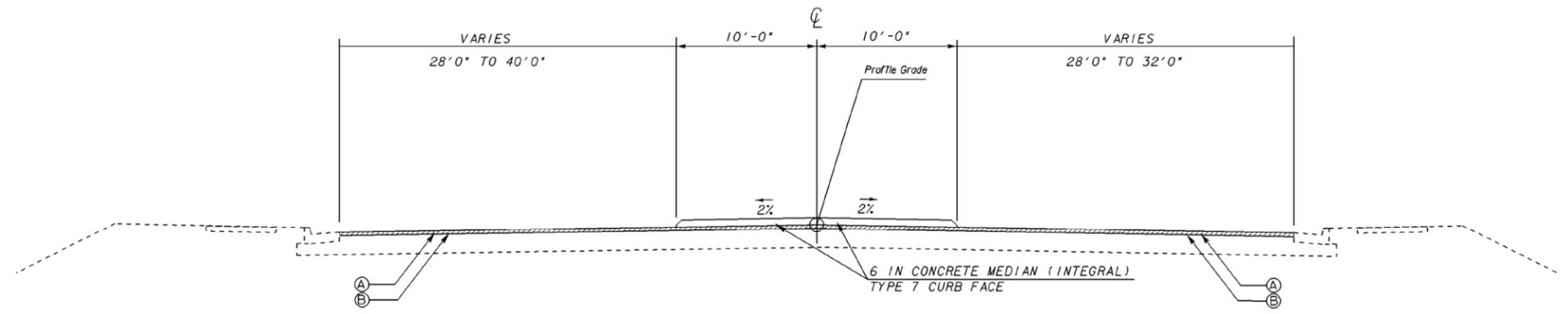
- REQUIRED PAVEMENT
- (A) RECYCLED ASPH CONC 12.5 mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME, 165 lbs/sq yd
 - (B) RECYCLED ASPH CONC 19 mm SUPERPAVE, GP 1 OR 2, INCL BITUM MATL & H LIME, 220 lbs/sq yd
 - (C) GRADED AGGREGATE BASE, INCL MATL, 8 IN

* PAVEMENT SAFETY EDGE TREATMENT
 SEE GDOT CONSTRUCTION DETAIL P-7
 FOR DETAILS AND METHOD OF QUANTITY
 CALCULATION



TYPICAL SECTION NO. 16
 WESTBOUND PAIR STA 19+39.76 TO STA 33+43
 EASTBOUND PAIR STA 30+00 TO STA 34+71

- REQUIRED PAVEMENT
- (A) RECYCLED ASPH CONC 12.5 mm SUPERPAVE, GP 2 ONLY, INCL POLYMER-MODIFIED BITUM MATL & H LIME, 165 lbs/sq yd
 - (B) MILL EXISTING PAVEMENT 1.5 IN



TYPICAL SECTION NO. 17
 JONESBORO RD STA 97+63 TO STA 109+00

- REQUIRED PAVEMENT
- (A) RECYCLED ASPH CONC 12.5 mm SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME, 165 lbs/sq yd
 - (B) MILL EXISTING PAVEMENT 1.5 IN

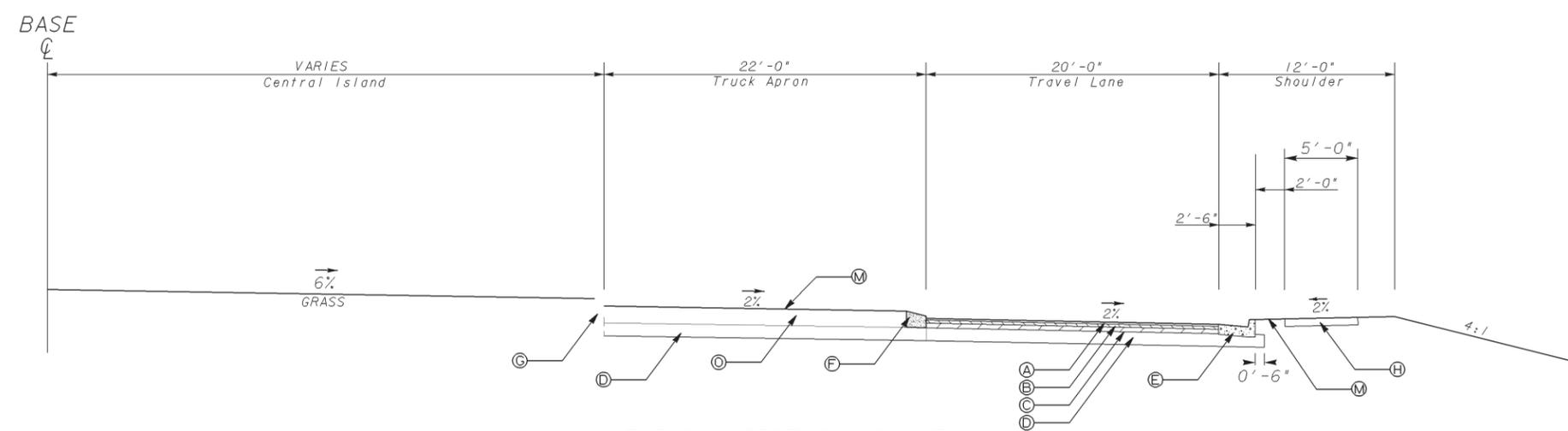
GEORGIA
 DEPARTMENT
 OF
 TRANSPORTATION

NOT TO SCALE

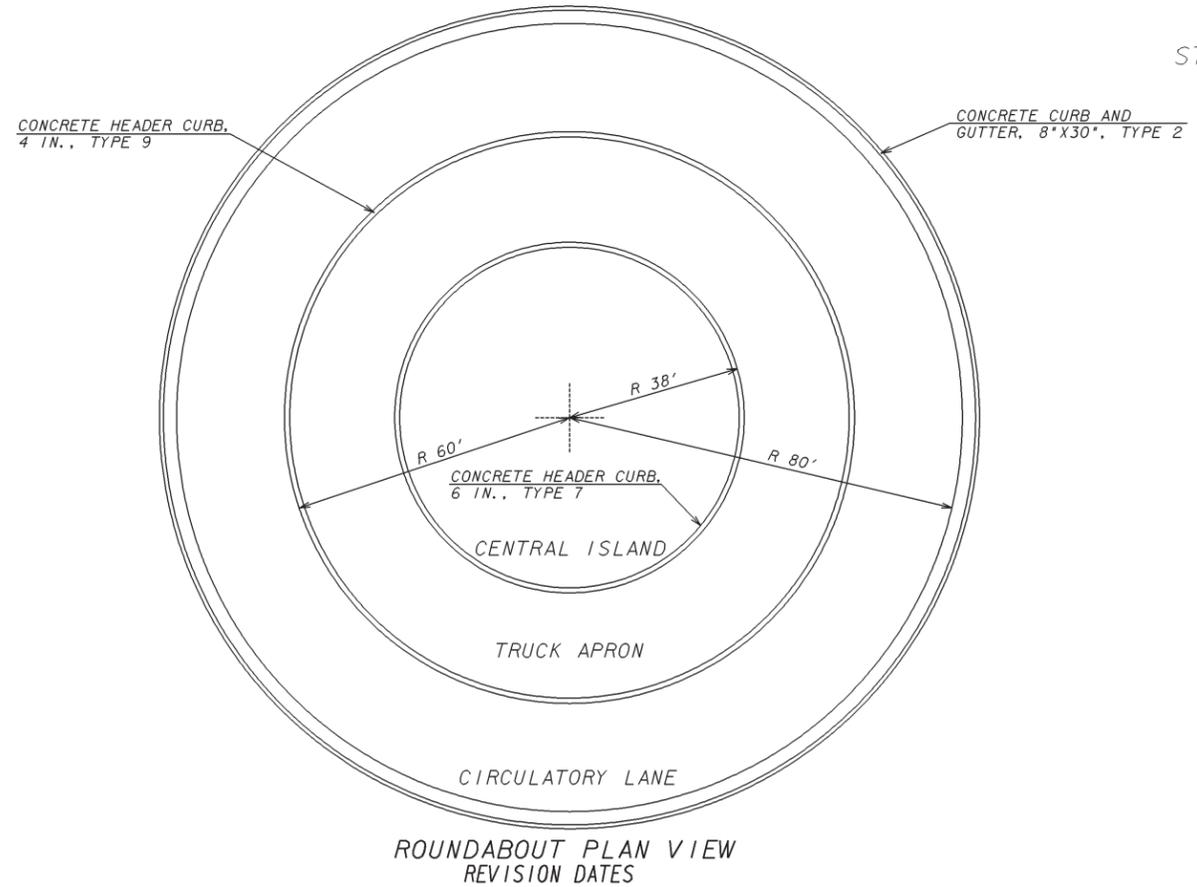
REVISION DATES		

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: ROADWAY DESIGN
TYPICAL SECTIONS
 STP00-0163-01(011)
 HENRY COUNTY

DRAWING No.
005-012



TYPICAL SECTION NO. 17
 JONESBORO RD
 STA. --- TO ---
 DORIS ST.
 STA. --- TO ---



- PAVEMENT DESIGN**
- Ⓐ RECYCLED ASPH CONC 12.5 MM SUPERPAVE, GP 2 ONLY, INCL BITUM MATL & H LIME, 165 lbs/sq yd
 - Ⓑ RECYCLED ASPH CONC 19 MM SUPERPAVE, GP 1 OR 2 ONLY, INCL BITUM MATL & H LIME, 220 lbs/sq yd
 - Ⓒ RECYCLED ASPH CONC 25 MM SUPERPAVE, GP 1 OR 2 ONLY, INCL BITUM MATL & H LIME, 440 lbs/sq yd
 - Ⓓ 12IN GR AGGR BASE CRS, INCL MATL
 - Ⓔ GDOT STD 9032B CONC CURB & GUTTER, 8 IN X 30 IN, TP2
 - Ⓕ GDOT STD 9032B CONC HEADER CURB, 4 IN, TP9
 - Ⓖ GDOT STD 9032B CONC HEADER CURB, 6 IN, TP7
 - Ⓗ CONC SIDEWALK, 4 IN
 - Ⓜ RED BRICK PATTERN STAMPED CONCRETE (FED CODE *21136)
 - Ⓝ GDOT DETAIL P-7 PAVEMENT EDGE TREATMENT
 - Ⓞ PLAIN PC CONC, 10 IN

3/1/2007 GPLN

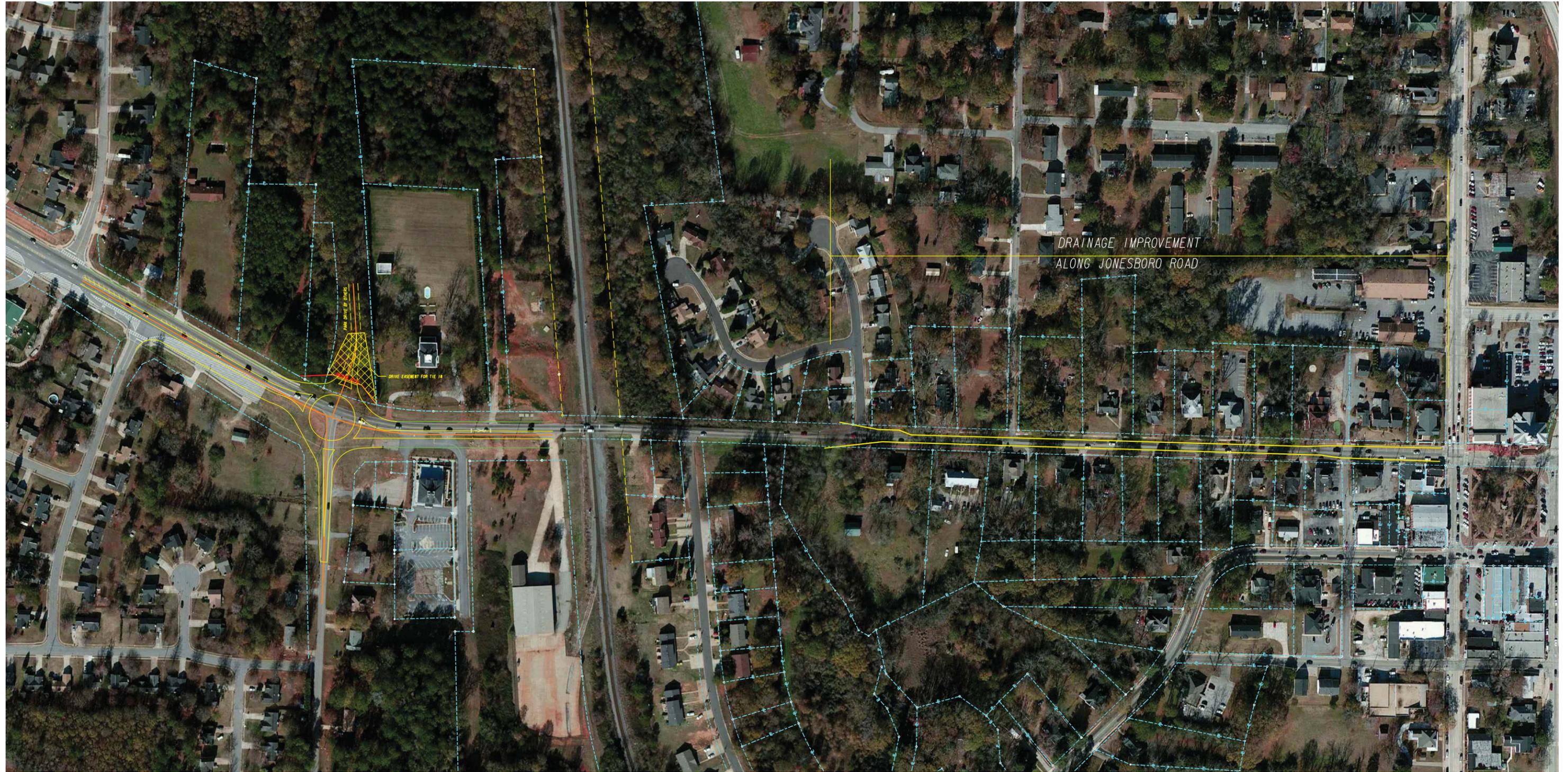
GEORGIA
 DEPARTMENT
 OF
 TRANSPORTATION

NOT TO SCALE

REVISION DATES		

STATE OF GEORGIA
 DEPARTMENT OF TRANSPORTATION
 OFFICE: ROADWAY DESIGN
TYPICAL SECTIONS
 STP00-0163-01(011)
 HENRY COUNTY

DRAWING No.
005-013

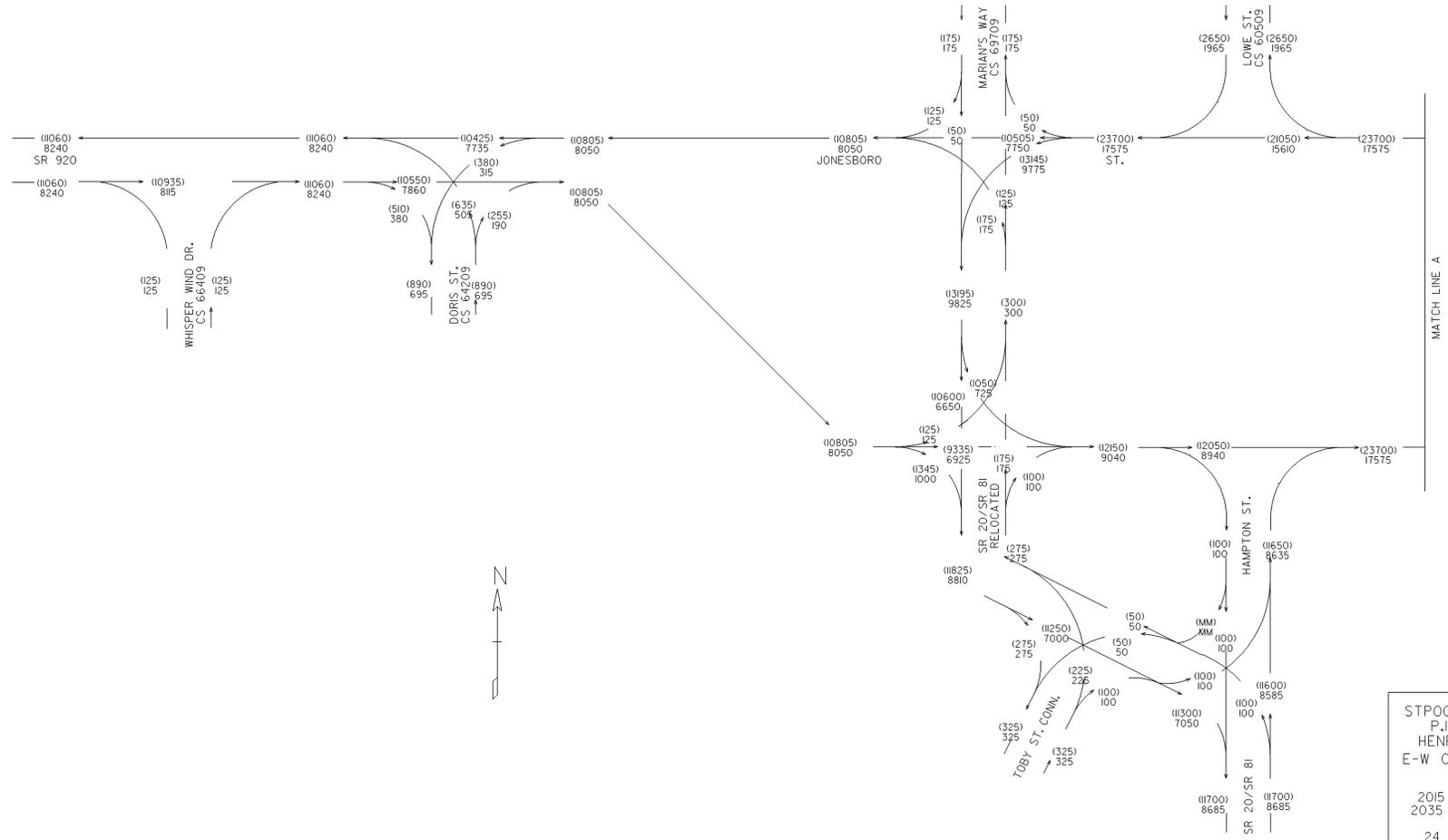


DRAINAGE IMPROVEMENT
ALONG JONESBORO ROAD

PUMP DRIVE BY STANBOS

DRIVE EASEMENT FOR TIG 1A

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF PLANNING



STP00-0163-00(011)
P.I.# 321530
HENRY COUNTY
E-W ONE-WAY PAIR
BUILD
2015 ADT = 000
2035 ADT = (000)
24 HR. T = 4%
S.U. = 2%
COMB. = 2%

CMR
03/12

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

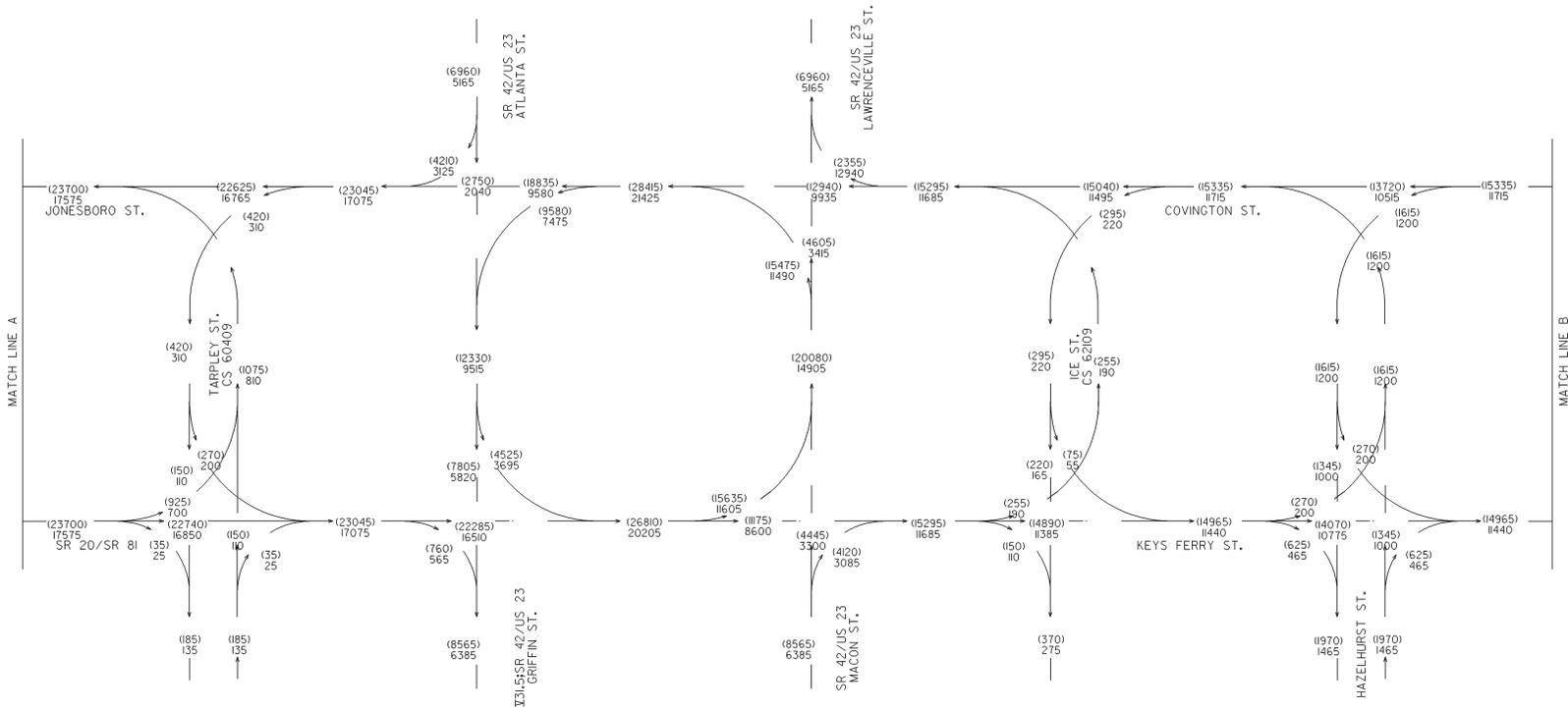
REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: ROADWAY DESIGN
TRAFFIC DIAGRAM

PROJECT: STP00-0163-01(011) COUNTY: HENRY

DRAWING NO.
10-01

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF PLANNING



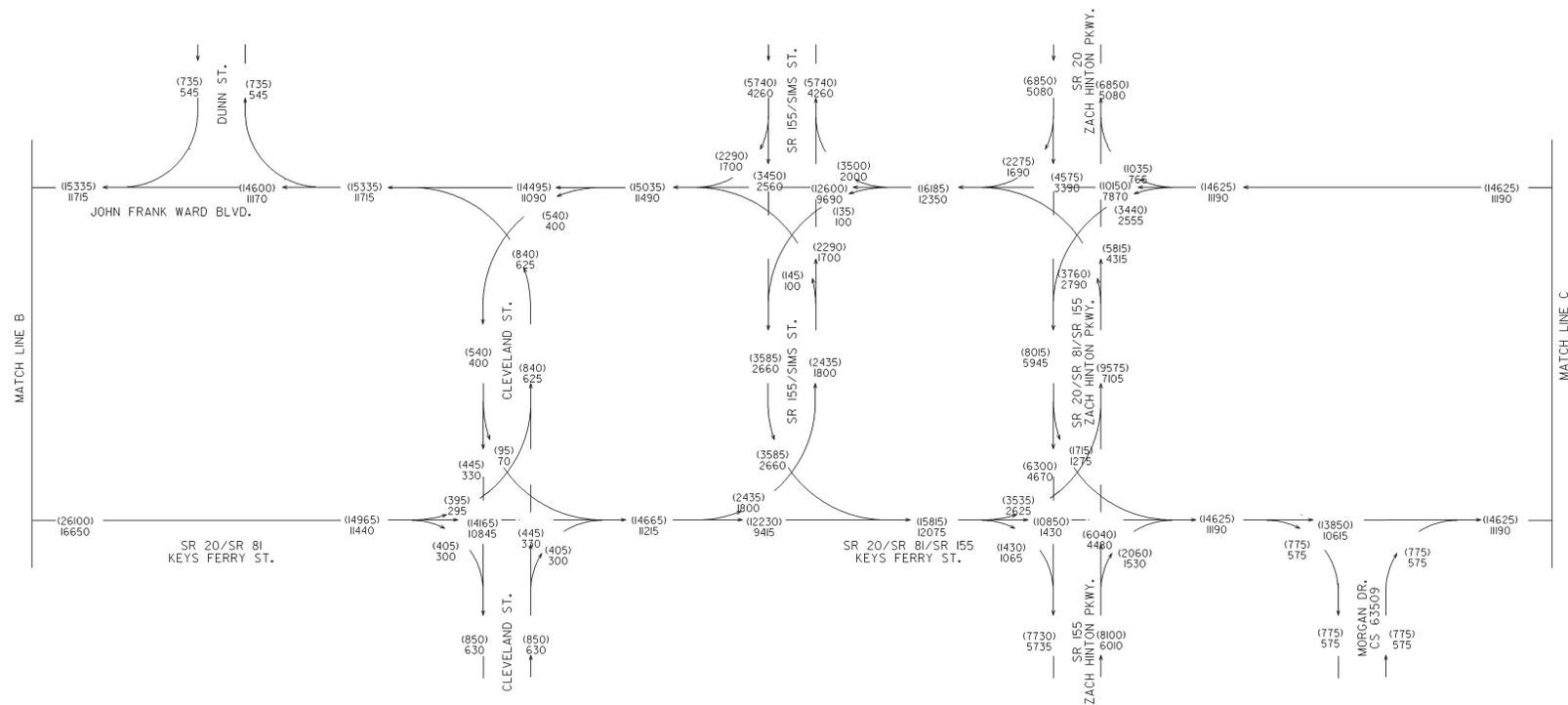
STP00-0163-00(011)
P.I.# 321530
HENRY COUNTY
E-W ONE-WAY PAIR
BUILD
2015 ADT = 000
2035 ADT = 1000
24 HR. T = 4%
S.U. = 2%
COMB. = 2%
CMR 03/12

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

REVISION DATES	STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION OFFICE OF ROADWAY DESIGN
	TRAFFIC DIAGRAM
	PROJECT: STP00-0163-01(011)
	COUNTY: HENRY
	DRAWING NO. 10-02

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	STP00-0163-01(011)		

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF PLANNING



STP00-0163-00(011)
P.I.# 321530
HENRY COUNTY
E-W ONE-WAY PAIR
BUILD
2015 ADT = 000
2035 ADT = (000)
24 HR. T = 4%
S.U. = 2%
COMB. = 2%
CMR 03/12

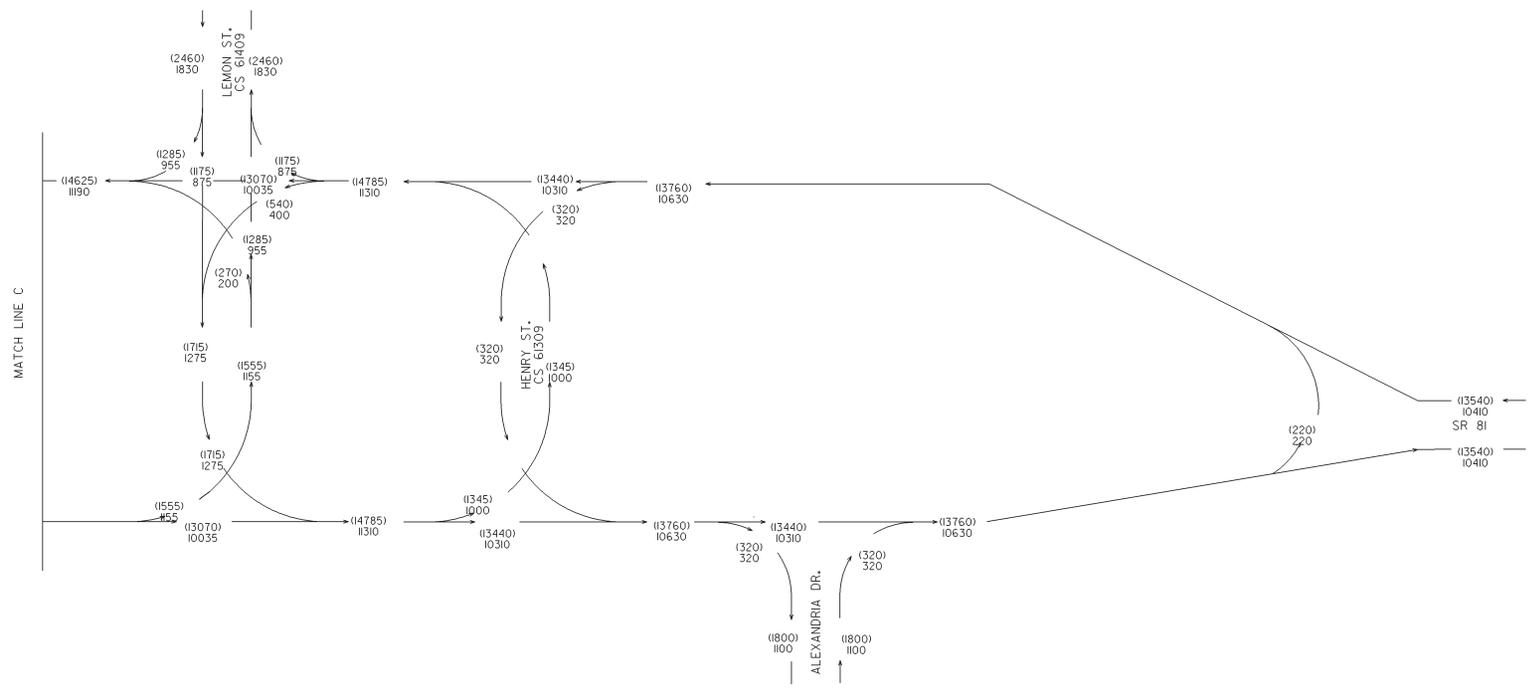
GEORGIA
DEPARTMENT
OF
TRANSPORTATION

REVISION DATES

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE OF ROADWAY DESIGN
TRAFFIC DIAGRAM
PROJECT: STP00-0163-01(011) COUNTY: HENRY
DRAWING NO. **10-03**

STATE	PROJECT NUMBER	SHEET NO.	TOTAL SHEETS
GA	STP00-0163-01(011)		

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF PLANNING



STP00-0163-00(011)
P.L.# 321530
HENRY COUNTY
E-W ONE-WAY PAIR

BUILD
2015 ADT = 000
2035 ADT = (000)

24 HR. T = 4%
S.U. = 2%
COMB. = 2%

CMR
03/12

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

REVISION DATES

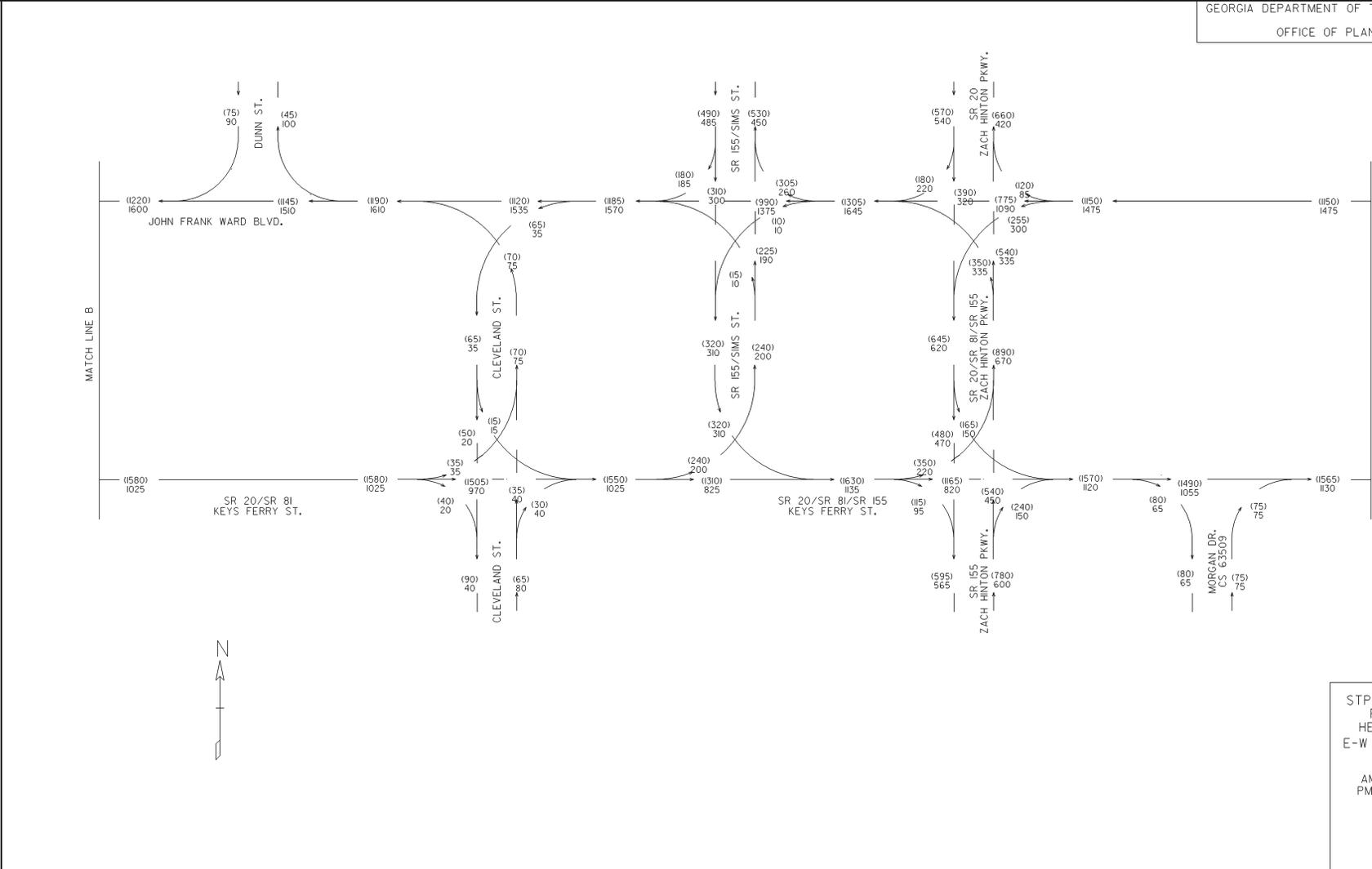
STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE: ROADWAY DESIGN
TRAFFIC DIAGRAM

PROJECT: STP00-0163-01(011)
COUNTY: HENRY

DRAWING NO.
10-04

1/30/2015 aramain	Fri Jan 30 15:59:50 2015 \\gdot-dsn1\gocfg\resources\Gdot-2012.tbl	M:\321530\dpn\321530\Traffic.dgn	STATE GA	PROJECT NUMBER STP00-0163-01(011)	SHEET NO. 14	TOTAL SHEETS 24
----------------------	---	----------------------------------	-------------	--------------------------------------	-----------------	--------------------

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF PLANNING



STP00-0163-00(011)
P.I.# 321530
HENRY COUNTY
E-W ONE-WAY PAIR

BUILD 2035
AM DHV = 000
PM DHV = (000)

T = 2%
S.U. = 1%
COMB. = 1%
CMR
03/12

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

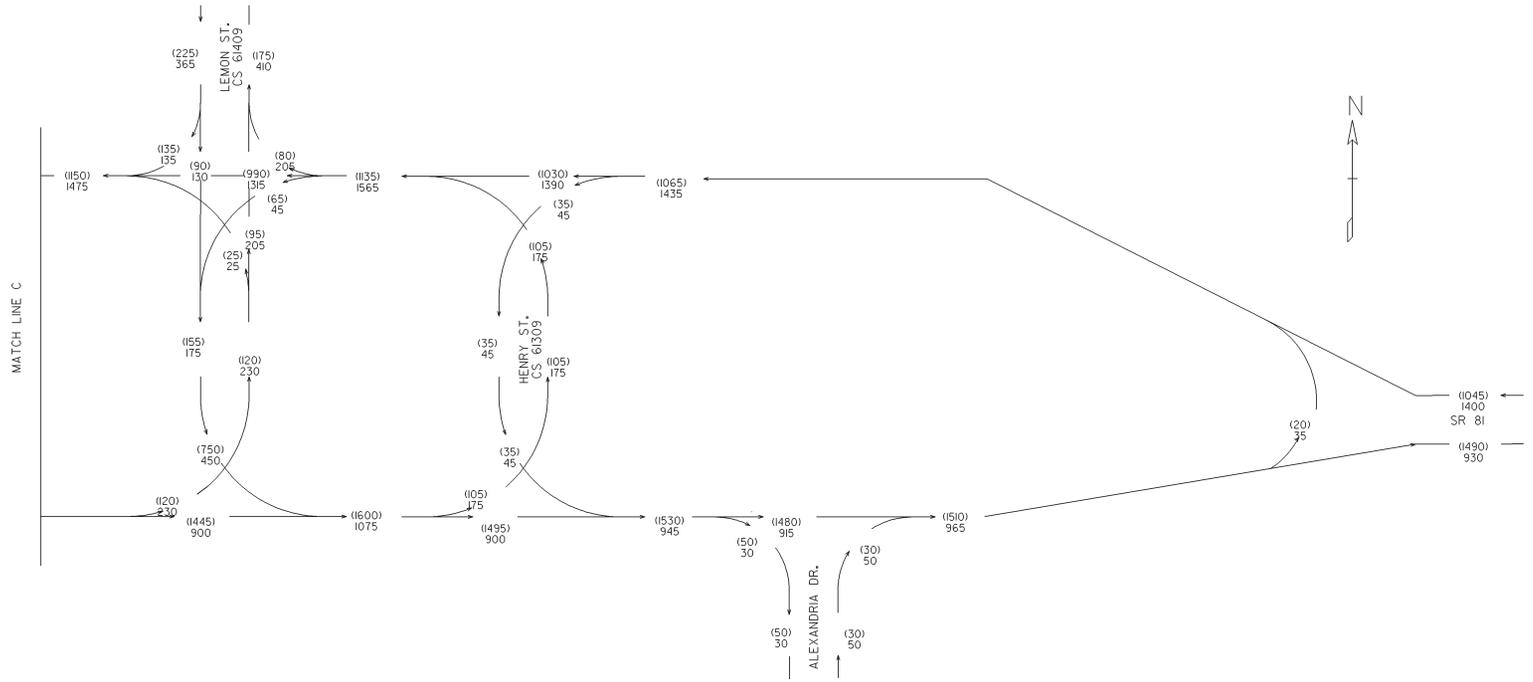
REVISION DATES	

STATE OF GEORGIA
DEPARTMENT OF TRANSPORTATION
OFFICE OF ROADWAY DESIGN
TRAFFIC DIAGRAM

PROJECT: STP00-0163-01(011) COUNTY: HENRY
DRAWING NO. **10-07**

1/30/2015 aroma1n	Fri Jan 30 15:59:42 2015 \\gdot-dsn1\goplot\resources\Gdot-2012.tbl	M:\321530\gpn\321530\Traffic.dgn	STATE GA	PROJECT NUMBER STP00-0163-01(011)	SHEET NO.	TOTAL SHEETS
----------------------	--	----------------------------------	--------------------	--------------------------------------	-----------	--------------

GEORGIA DEPARTMENT OF TRANSPORTATION
OFFICE OF PLANNING



STP00-0163-00(01)
P.I.# 321530
HENRY COUNTY
E-W ONE-WAY PAIR

BUILD 2035
AM DHV = 000
PM DHV = (000)

T = 2%
S.U. = 1%
COMB. = 1%

CMR
03/12

GEORGIA
DEPARTMENT
OF
TRANSPORTATION

REVISION DATES		STATE OF GEORGIA DEPARTMENT OF TRANSPORTATION	
		OFFICE: ROADWAY DESIGN	
		TRAFFIC DIAGRAM	
		PROJECT: STP00-0163-01(011)	
		COUNTY: HENRY	
		DRAWING NO. 10-08	



City of McDonough

April 30, 2015

MAYOR
Billy Copeland

COUNCIL MEMBERS

Craig Elrod
Gail Notti
Roger Pruitt
Rufus Stewart
Kamali Varner
Sandra Vincent

CITY CLERK
Janis E. Price

**CITY
ADMINISTRATOR**
Keith Dickerson

Merishia Robinson, Program Manager
Georgia Department of Transportation
600 West Peachtree Street NW
Atlanta, GA 30308

RE: McDonough One Way Pairs

Ms. Robinson,

Per our phone conversation, please allow this correspondence to serve as confirmation of the City of McDonough's continuing support for the One Ways Pair project. We appreciate the recent clarification you have provided regarding the project. Specifically, that GDOT is currently investigating the location for the roundabout. Further, GDOT will be responsible for the acquisition and costs for any ROW necessary for the roundabout. I am including notification from the City that the City Administrator will be the sole contact point for discussion of the project for GDOT personnel. The City will be requesting a permanent right in right out entrance to the Alexander Park site based on the design provided by GDOT.

If you have any questions or concerns regarding this information, please don't hesitate to contact me.

Sincerely,

Keith Dickerson
City Administrator
City of McDonough
678-414-3236



AGREEMENT
BETWEEN
DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
AND
CITY OF McDONOUGH

This Agreement is made and entered into this 21st day of August, 2015, by and between the DEPARTMENT OF TRANSPORTATION, an agency of the State of Georgia, hereinafter called the **DEPARTMENT**, and CITY OF McDONOUGH, GEORGIA acting by and through its City Council, hereinafter called the **CITY**.

WHEREAS, the CITY has represented to the DEPARTMENT a desire to obtain roundabout Lighting on the East-West 1-Way Pair project in McDonough, said Lighting to be installed under GDOT Project STP00-0163(011) Henry County P.I. No. 321530, and

WHEREAS, the CITY has represented to the DEPARTMENT a desire to participate in: 1) Providing the Energy and 2) the Operation and Maintenance of said lighting system at the aforesaid location, and the DEPARTMENT has relied upon such representation; and

WHEREAS, the DEPARTMENT has indicated a willingness to fund the materials and installation for the said lighting system at the aforesaid location, with funds of the DEPARTMENT, funds apportioned to the DEPARTMENT by the Federal Highway Administration under Title 23, United States Code, Section 104, or a combination of funds from any of the above sources.

NOW, THEREFORE, in consideration of the mutual promises made and of the benefits to flow from one to the other, the DEPARTMENT and the CITY hereby agree each with the other as follows:

1. The DEPARTMENT or its assigns shall cause the installation of all materials and equipment necessary for roundabout Lighting as part of the East-West 1-Way Pair project, said Lighting to be installed under GDOT Project STP00-0163(011) Henry County P.I. No. 321530, as shown on Attachment "A" attached hereto and made a part hereof.

2. Upon completion of installation of said lighting system, and acceptance by the DEPARTMENT, the CITY shall assume full responsibility for the operation, the repair and the maintenance of the entire lighting system, including but not limited to repairs of any damages, replacement of lamps, ballasts, luminaires, lighting structures, associated equipment, conduit, wiring and service equipment, and the requirements of the Georgia Utility Facility Protection Act. The CITY further agrees to provide and pay for all the energy required for the operation of said lighting system.

3. The DEPARTMENT shall retain ownership of all materials and various components of the entire lighting system. The CITY, in its operation and maintenance of the lighting system, shall not in any way alter the type or location of any of the various components which make up the entire lighting system without prior written approval from the DEPARTMENT.

4. This Agreement is considered as continuing for a period of fifty (50) years from the date of execution of this Agreement. The DEPARTMENT reserves the right to terminate this Agreement, at any time for just cause, upon thirty (30) days written notice to the CITY.

5. It is understood by the CITY that the DEPARTMENT has relied upon the CITY'S representation of providing for the energy, maintenance, and operation of the lighting represented by this Agreement; therefore, if the CITY elects to de-energize or fails to properly maintain or to repair the lighting system during the term of this Agreement, the CITY shall reimburse the DEPARTMENT the materials cost for the lighting system. If the CITY elects to de-energize or fails to properly maintain any individual unit within the lighting system, the CITY shall reimburse the DEPARTMENT for the material cost for the individual unit which will include all costs for the pole, luminaires, foundations, and associated wiring. The DEPARTMENT will provide the CITY with a statement of material costs upon completion of the installation.

The covenants herein contained shall, except as otherwise provided accrue to the benefit of and be binding upon the successors and assigns of the parties hereto.

IN WITNESS WHEREOF, the parties hereto have made and executed this Agreement the day and year first above written.

RECOMMENDED:

CITY OF McDONOUGH

BY:

Billy Gubel
Mayor

(SEAL)

DEPARTMENT OF TRANSPORTATION

BY

Bill R. M. M.
Commissioner

(SEAL)

[Signature]
WITNESS

Janis E. Price
Notary Public

JANIS E. PRICE
Notary Public, Henry County, Georgia
My Commission Expires October 14, 2015

This Agreement approved by the City Council at a meeting held at

City Hall
136 Keys Ferry Street
McDonough, GA 30253

this 7th day of July,

2015.

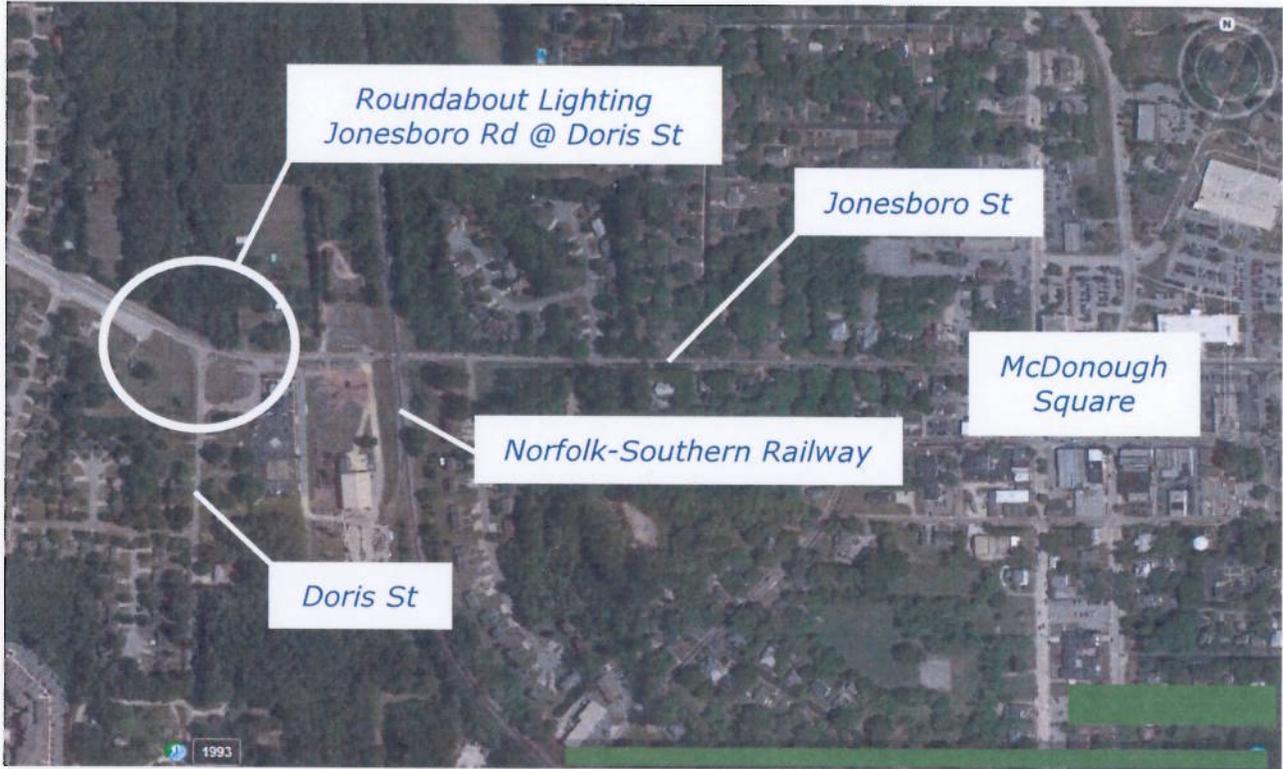
ATTEST:

Angela O. White
Treasurer



Janis Price
City Clerk

Attachment "A"



Project Location Map

GDOT Project: STP00-0163(011)

P.I. No. 321530 ~ Henry County

East-West 1-Way Pair in the City of McDonough