

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

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

FILE P.I. # 0010870
Fulton County
GDOT District 7 - Metro Atlanta
SR 9 Operational Improvements
From Winthrope Park Drive to
NE of Winthrope Chase Drive
Quick Project

OFFICE Design Policy & Support

DATE September 11, 2013

FROM  for 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:

Bobby Hilliard, Program Control Administrator
Genetha Rice-Singleton, State Program Delivery Engineer
Glenn Bowman, State Environmental Administrator
Cindy VanDyke, State Transportation Planning Administrator
Ben Rabun, State Bridge Engineer
Kathy Zahul, State Traffic Engineer
Angela Robinson, Financial Management Administrator
Lisa Myers, State Project Review Engineer
Charles "Chuck" Hasty, State Materials Engineer
Mike Bolden, State Utilities Engineer
Paul Tanner, Asst. State Transportation Data Administrator
Attn: Systems & Classification Branch
Jeff Fletcher, Statewide Location Bureau Chief
Emmanuella Myrthil, State Safety Program Coordinator
Rachel Brown, District Engineer
Scott Lee, District Preconstruction Engineer
Sharon Witherspoon, Acting District Utilities Engineer
Peter Emmanuel, Project Manager
BOARD MEMBER - 6th Congressional District

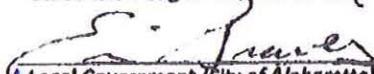
**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA
REVISED PROJECT CONCEPT REPORT**

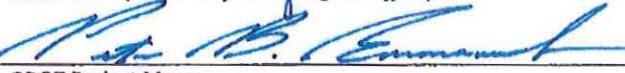
Project Type:	<u>Safety & Traffic Operations</u>	P.I. Number:	<u>0010870</u>
GDOT District:	<u>District 7</u>	County:	<u>Fulton</u>
Federal Route Number:	<u>N/A</u>	State Route Number:	<u>SR 9</u>

The typical section will be changed to a flush 12 foot median, 10.5 foot lanes, and 4 foot shoulders including 0.5 ^{foot} header curb. This change is to reflect the recent updates to the upcoming SR 9 reconstruction project (PI Nos. 721780 and 721790).

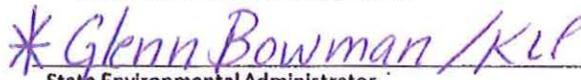
Submitted for approval:

Ron Osterloh, P.E. – Pond & Company 
Consultant Designer and Firm or GDOT Concept/Design Phase Office Head & Office
August 5, 2013
DATE

Eric Groves, PE 
Local Government (City of Alpharetta) SE Eng/TRANS Planner
Office Head (GDOT Project Manager's Office)
August 7, 2013
DATE

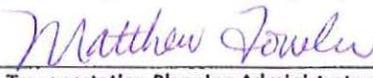
Benita Rice-John 
GDOT Project Manager
8/14/2013
DATE

* Recommendation on file
Recommendation for approval:

* Glenn Bowman / KLP 
State Environmental Administrator
8-19-13
DATE

* Kathy Zahul / KLP 
State Traffic Engineer
8-19-13
DATE

The concept as presented herein and submitted for approval is consistent with that which is included in the Regional Transportation Plan (RTP) and/or the State Transportation Improvement Program (STIP).

Matthew Fowler 
State Transportation Planning Administrator
8/16/13
DATE

PLANNING, APPROVED CONCEPT, & BACKGROUND DATA

Project Justification Statement:

The City of Alpharetta has requested that the typical section for the reconstruction of SR 9 (PI Nos. 721780 and 721790) be revised for a more context sensitive solution. In order to minimize reconstruction from the Vaughn Drive operational improvement quick project, the typical section for this project (PI 0010870) will be changed to reflect that of the recently revised typical section for SR 9 (PI Nos. 721780 and 721790)

Description of the approved concept:

The quick operational improvement project lies completely within the City of Alpharetta in Fulton County. The project proposed to improve the intersection of Main Street (S.R. 9) at Vaughn Drive from Winthrope Park Drive intersections at Main Street to approximately 250 feet northeast of the intersection of Main Street and Winthrope Chase Drive. The proposed project would provide minor widening and restriping to convert approximately 1800 feet of right turn lane into a through lane and provide a two way left turn lane. The proposed project length is approximately 0.25 miles.

PDP Classification: Major Minor

Federal Oversight: Full Oversight Exempt State Funded Other

Projected Traffic as shown in the approved Concept Report: ADT or AADT

Open Year (2014): 29,120

Design Year (2034): 34,860

Updated Traffic: ADT or AADT

Open Year (2014): 29,120

Design Year (2034): 34,860

Functional Classification (Mainline): Urban Minor Arterial Street

VE Study anticipated: No Yes Completed – Date:

Transportation Management Plan (TMP) Required: No Yes

This project is Federal Oversight Exempt but includes federal funds. Therefore a TMP is required. The requirements will be met by including staging plans in the final plan set, and any special provisions that will apply to the project, such as SP 108 and 150.

PROPOSED REVISIONS

Approved Features:	Proposed Features:
<p>3 lane urban section, including 11 foot travel lanes and a 14 foot flush median. Urban 12 foot shoulder with 24 inch curb and gutter and 5 foot sidewalk. No right turn lanes are provided.</p> <p>The approved typical section is being revised in</p>	<p>3 lane typical section, including one lane southbound, 12 foot flush median, one northbound lane, plus extended auxiliary lanes in the each direction as existing right of way allows. The through lane width will be 10.5 feet and the median will be a flush 12 feet. 4 foot shoulders are proposed</p>

<p><i>order to match the typical section of the upcoming GDOT project, and avoid future reconstruction. Shoulder improvements are being removed, and limited right turn lanes are being added. Improvements are remaining entirely within existing right of way.</i></p>	<p><i>including 1 foot shy distance with 0.5 foot header curb. No sidewalk is proposed. This section will be more closely related to the final design of the SR 9 projects so that minimal reconstruction will be required in this area.</i></p> <p><i>The project will begin at Winthrope Park Drive and continue past Winthrope Chase Drive for approximately 900 feet. The total project length will be 0.384 miles.</i></p> <p><i>There are no changes to the right of way, no impacts to environmental resources, no changes in access, and no changes to FHWA controlling criteria.</i></p> <p><i>Design Variances will be required for the 12 foot flush median and the proposed shoulder that does not include sidewalks.</i></p>
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Reason(s) for change: The City of Alpharetta has requested a new typical section for SR 9 Projects 721780 and 721790 that are more context sensitive. The typical section proposed for Vaughn Drive Operational Improvements will conform to the new typical sections. This will require less reconstruction when the future SR 9 project is being constructed.

ENVIRONMENTAL

Project 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

This project is in conformance with the current TIP and is exempt from air quality analysis. The revised typical section will extend turn lanes, and not add any additional through lanes.

Potential environmental impacts of proposed revision: None. The environmental and project schedule is unchanged because of the minimal changes in the project footprint.

Have proposed revisions been reviewed by environmental staff? No Yes

Environmental responsibilities (Studies/Documents/Permits): GT Hill Planners is performing the Programmatic Categorical Exclusion.

MS4 Compliance – Is the project located in an MS4 area? No Yes

The project is located within Fulton County which is an MS4 area. This project will not be disturbing more than 1 total acre of area and is therefore exempt from the design and requirement of post-construction BMPs.

PROJECT COST & ADDITIONAL INFORMATION

Updated Cost Estimate		Date of Estimate
Base Construction Cost:	\$337,143.20	8/23/2013
Engineering and Inspection:	\$16,857.16	6/3/2013
Liquid AC Adjustment:	\$37,967.50	8/22/2013
<u>Total Construction Cost:</u>	\$391,967.86	
Right-of-Way:	\$0.00	6/3/2013
Utilities (reimbursable costs):	\$78,934.45	8/26/2013
Environmental Mitigation:	\$0.00	6/3/2013
TOTAL PROJECT COST:	\$470,902.31	

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

Comments: The substandard feature of installing no sidewalk will be eliminated when the future reconstruction of SR 9 twin projects, PI Nos. 721780 and 721790, is constructed. The future project will include a multi-use path that will provide the required pedestrian and bicycle facilities in the year 2018. Previously, the design variance for the substandard (12 foot) median lane and for the use of urban shoulder with no sidewalk was approved on 6/7/2013.

Attachments:

1. Sketch map
2. Typical Sections
3. Revised Concept Layout
4. Cost Estimates

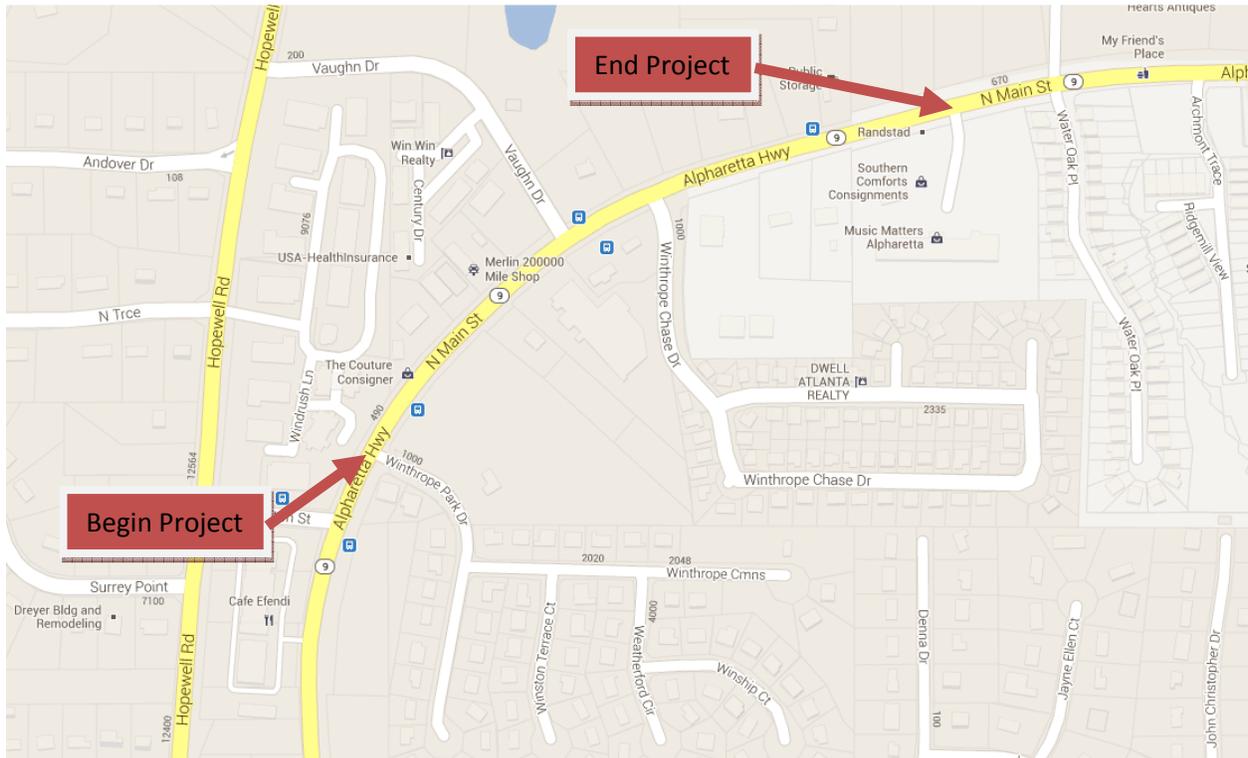
APPROVALS

Concur: 
Director of Engineering

Approve: 
Chief Engineer


Date

PROJECT LOCATION



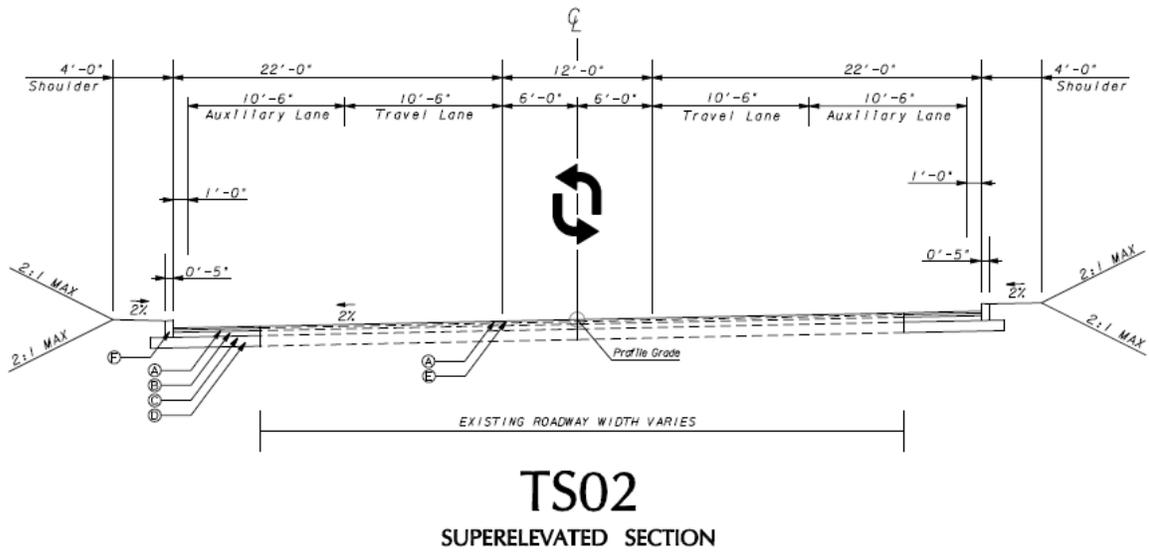
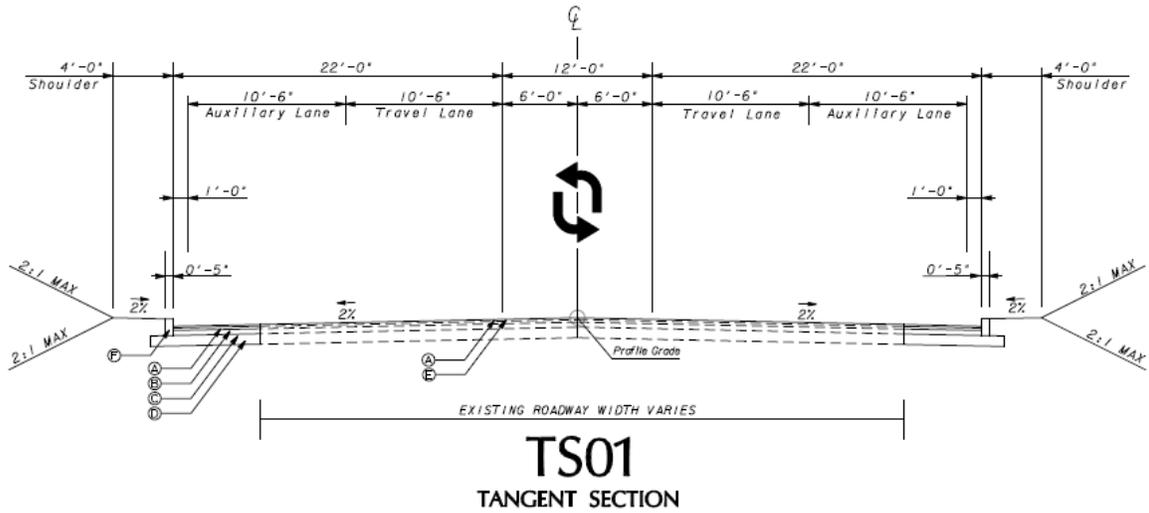
SR 9 @ CR 1663 / Vaughn Drive Intersection Improvements

PI # 0010870

Fulton County

TYPICAL SECTIONS – Vaughn Drive Operational Improvements

PI 0010870



Revised Concept Layout – Vaughn Drive Operational Improvements

PI 0010870



JOB DETAIL ESTIMATE

JOB NUMBER : 0010870
 DESCRIPTION: SR 9 AT VAUGHN DRIVE

SPEC YEAR: 01

LINE	ITEM	UNITS	DESCRIPTION	QUANTITY	PRICE	AMOUNT
0004	441-6012	LF	CONC CURB & GUTTER/ 6"X24"TP2	2800	\$ 11.04	\$ 30,934.23
0005	310-5060	SY	GR AGGR BS CRS 6IN INCL MATL	1000	\$ 10.98	\$ 10,980.39
0010	441-0104	SY	CONC SIDEWALK, 4 IN	1100	\$ 29.94	\$ 32,934.73
0015	500-9999	CY	CL B CONC,BASE OR PVMT WIDEN	30	\$ 182.92	\$ 5,487.82
0020	441-0014	SY	DRIVEWAY CONCRETE, 4 IN TK	20	\$ 32.31	\$ 646.38
0025	441-4020	SY	CONC VALLEY GUTTER, 6 IN	20	\$ 36.73	\$ 734.75
0030	402-1812	TN	RECYL AC LEVELING,INC BM&HL	75	\$ 76.43	\$ 5,732.78
0035	402-3113	TN	RECYL AC 12.5MM SP,GP1/2,BM&HL	580	\$ 93.98	\$ 54,512.73
0040	402-3190	TN	RECYL AC 19 MM SP,GP 1 OR 2 ,INC BM&HL	60	\$ 83.61	\$ 5,016.73
0044	413-1000	GL	BITUM TACK COAT	228	\$ 2.95	\$ 673.82
0045	550-1181	LF	STM DR PIPE 18",H 10-15	600	\$ 37.96	\$ 22,776.39
0050	668-1100	EA	CATCH BASIN, GP 1	4	\$ 2,368.92	\$ 9,475.72
0055	550-4118	EA	FLARED END SECT 18 IN, SIDE DR	2	\$ 339.26	\$ 678.53
0060	668-4300	EA	STORM SEW MANHOLE, TP 1	2	\$ 1,943.36	\$ 3,886.73
0065	610-9001	EA	REM SIGN	10	\$ 85.19	\$ 851.91
0070	611-5360	EA	RESET HIGHWAY SIGN	10	\$ 85.75	\$ 857.51
0075	653-1501	LF	THERMO SOLID TRAF ST 5 IN, WHI	200	\$ 0.70	\$ 140.00
0080	653-1502	LF	THERMO SOLID TRAF ST, 5 IN YEL	3000	\$ 0.48	\$ 1,459.44
0085	653-1704	LF	THERM SOLID TRAF STRIPE,24",WH	140	\$ 3.80	\$ 532.60
0090		GLF	THERMO SKIP TRAF ST, 5 IN, WHI	200	\$ 0.55	\$ 111.61
0095	653-3502	GLF	THERMO SKIP TRAF ST, 5 IN, YEL	1200	\$ 0.28	\$ 338.53
0100	653-1804	LF	THERM SOLID TRAF STRIPE, 8",WH	1500	\$ 1.83	\$ 2,746.08
0105	653-6006	SY	THERM TRAF STRIPING, YELLOW	60	\$ 3.29	\$ 197.59
0110	653-0120	EA	THERM PVMT MARK, ARROW, TP 2	6	\$ 73.54	\$ 441.27
0115	700-9300	SY	SOD	1700	\$ 3.96	\$ 6,745.28
0120	171-0030	LF	TEMPORARY SILT FENCE, TYPE C	2000	\$ 2.63	\$ 5,260.36
0125	165-0030	LF	MAINT OF TEMP SILT FENCE, TP C	1000	\$ 0.84	\$ 840.51
0130	163-0550	EA	CONS & REM INLET SEDIMENT TRAP	6	\$ 132.28	\$ 793.69
0135	165-0071	LF	MAINT OF SEDIMENT BARRIER - BALED STRAW	3	\$ 2.47	\$ 7.44
0140	163-0300	EA	CONSTRUCTION EXIT	1	\$ 1,215.95	\$ 1,215.96
0145	165-0101	EA	MAINT OF CONST EXIT	1	\$ 447.93	\$ 447.94
0150	167-1000	EA	WATER QUALITY MONITORING AND SAMPLING	1	\$ 349.52	\$ 349.53
0155	167-1500	MO	WATER QUALITY INSPECTIONS	6	\$ 425.78	\$ 2,554.73
0160	163-0232	AC	TEMPORARY GRASSING	1	\$ 419.31	\$ 419.31
0165	163-0240	TN	MULCH	3	\$ 240.57	\$ 721.73
0170	700-7000	TN	AGRICULTURAL LIME	2	\$ 81.96	\$ 163.93
0175	700-8000	TN	FERTILIZER MIXED GRADE	1	\$ 431.81	\$ 431.81
0180	700-8100	LB	FERTILIZER NITROGEN CONTENT	20	\$ 2.13	\$ 42.71
0185	150-1000	LS	TRAFFIC CONTROL - LS	1	\$ 40,000.00	\$ 40,000.00
0190	210-0100	LS	GRADING COMPLETE - LS	1	\$ 85,000.00	\$ 85,000.00

DATE : 08/23/2013

JOB DETAIL ESTIMATE

ITEM TOTAL	\$ 337,143.18
INFLATED ITEM TOTAL	\$ 337,143.20

TOTALS FOR JOB 0010870

ESTIMATED COST:	\$ 337,143.20
CONTINGENCY PERCENT (0.0):	\$ -
ESTIMATE TOTAL:	\$ 337,143.20

PROJ. NO.	PEMAS011401084
P.I. NO.	0010870
DATE	8/23/2013

CALL NO.

INDEX (TYPE)	DATE	INDEX
REG. UNLEADED	Aug-13	\$ 3.540
DIESEL		\$ 3.870
LIQUID AC		\$ 576.00

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)				37566.72	\$	37,566.72
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	921.60		
Monthly Asphalt Cement Price month project let (APL)			\$	576.00		
Total Monthly Tonnage of asphalt cement (TMT)				108.7		

ASPHALT	Tons	%AC	AC ton
Leveling		5.0%	0
12.5 OGFC		5.0%	0
12.5 mm	967	5.0%	48.35
9.5 mm SP		5.0%	0
25 mm SP	357	5.0%	17.85
19 mm SP	850	5.0%	42.5
	2174		108.7

BITUMINOUS TACK COAT

Price Adjustment (PA)				\$ 400.78	\$	400.78
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	921.60		
Monthly Asphalt Cement Price month project let (APL)			\$	576.00		
Total Monthly Tonnage of asphalt cement (TMT)				1.159677249		

Bitum Tack

Gals	gals/ton	tons
270	232.8234	1.15967725

BITUMINOUS TACK COAT (surface treatment)

Price Adjustment (PA)				0	\$	-
Monthly Asphalt Cement Price month placed (APM)	Max. Cap	60%	\$	921.60		
Monthly Asphalt Cement Price month project let (APL)			\$	576.00		
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 \$ 37,967.50

City of Alpharetta
SR 9 at Vaughn Drive Operational Improvements
Utilities Cost Estimate

ITEM	UNIT	QUANTITY	COST/UNIT		COST
Adjust Electrical Handhole to Grade	EA	5	\$	550.00	\$ 2,750.00
Adjust Telecommunications Manhole to Grade	EA	10	\$	550.00	\$ 5,500.00
Replace Marker	EA	6	\$	104.50	\$ 627.00
Adjust Water Meter Box to Grade	EA	7	\$	572.43	\$ 4,007.01
Adjust Water Valve Box to Grade	EA	3	\$	287.06	\$ 861.18
Adjust Hydrant to Grade	EA	2	\$	966.00	\$ 1,932.00
Adjust Water Valve Marker	EA	1	\$	104.50	\$ 104.50
Adjust Water Service Line to Grade	LF	500	\$	6.22	\$ 3,110.00
Adjust Splice Box	EA	1	\$	42.76	\$ 42.76
Relocate Utility Pole	EA	2	\$	30,000.00	\$ 60,000.00
Utility Total					\$ 78,934.45