

SUPPLEMENTAL V WORK AU

WILLIAMSON CO

the terms and conditions of the Williamson April 2, 2015 ("Contract") and entered into subdivision of the State of Texas, (the "Engineer"). This Supplemental Work Authorization 1

29, 2015 (the "Work Authorization"); WHEREAS, the County and the Engineer

WHEREAS, pursuant to Article 14 of the fully executed Work Authorization sha Authorization; and

WHEREAS, it has become necessary to a

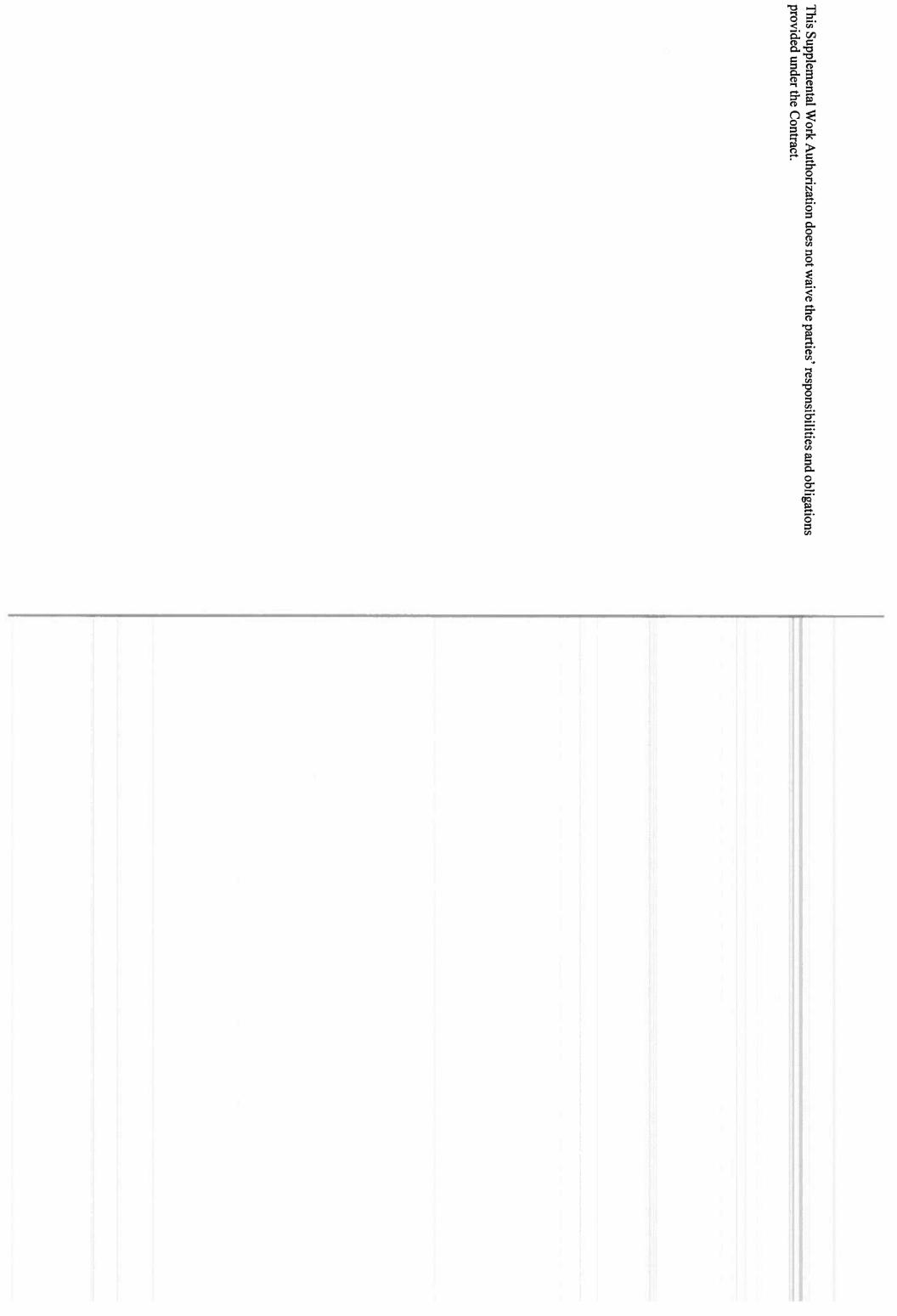
AGREEMENT

NOW, THEREFORE, premises consider Authorization shall be amended, changed

- No amendments or changes to the in the original Attachment "A" hav
- I. The Services to be Provided by th "B" of the Work Authorization ar Attachment "B".
- II. Provided by the Engineer shall be by an additional Supplemental V attached hereto as Attachment "C" The Work Authorization shall te
- IV. is included as Attachment "D". increased from \$1,378,537.00 to 1. The maximum amount payable

of the Work Authorization are unchanged Except as otherwise amended by prior or fi

VORK AUTHORIZATION NO. 5 TO J'THORIZATION NO. 2 UNTY ROAD BOND PROJECT: CR 101 No. 5 to Work Authorization No. 2 is made pursuant to n County Contract for Engineering Services, being dated to by and between Williamson County. Texas, a political	
No. 5 to Work Authorization No. 2 is made pursuant to n County Contract for Engineering Services, being dated to by and between Williamson County, Texas, a political "County") and Brown & Gay Engineers, Inc. (the	
executed Work Authorization No. 2 dated effective July	
Contract, amendments, changes and modifications to a all be made in the form of a Supplemental Work	
mend, change and modify the Work Authorization.	
ed, the County and the Engineer agree that the Work and modified as follows:	
Services to be Provided by the County that were set out ve been made.	
e Engineer that were set out in the original Attachment te hereby amended to include the services described in	
rminate on December 31, 2017. The Services to be fully completed on or before said date unless extended Work Authorization. The revised Work Schedule is .	
for services under the Work Authorization is hereby 505,240.00 The Fee Schedule for the additional services	
ature Supplemental Work Authorizations, all other terms and will remain in full force and effect.	



IN WITNESS WHEREOF, the County and the Engineer have executed this Supplemental Work Authorization, in duplicate, to be effective as of the date of the last party's execution below.

10/18/2017 Date	PRECTOR OF THINIPRAJES STITCH!	By: Wall, E. Signature Signature Abster E Jeste As. Printed Name
15 -74- 2617 Date	Could Puly-	By: Signature Printed Name
3,8		DATITY OF THE STATE OF THE STAT

LIST OF ATTACHMENTS

Attachment B - Supplemental Services to be Provided by the Engineer

Attachment C - Work Schedule

Attachment D - Supplemental Fee Estimate

IN WITNESS WHEREOF, the County and the Engineer have executed this Supplemental Work Authorization, in duplicate, to be effective as of the date of the last party's execution below.	ngineer have executed this Supplemental Work e date of the last party's execution below.	
GINEER:	COUNTY:	
Signature 1	Signature	
Printed Name	Printed Name	
Title	Title	
10/18 /2017 Date	Date 0 K 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
LIST OF ATTACHMENTS		

Attachment D – Supplemental Fee Estimate

Attachment C - Work Schedule

Attachment B - Supplemental Services to be Provided by the Engineer

Contract: Williamson C Supplemental V

SERVICES TO BE PROVIDED BY THE ENG **ATTACHMENT B-5**

assistance to the ROW acquisition process and revisions to the GENERAL

The work to be performed by the ENGINEER under this work author specifications and estimate (PS&E) for the construction of CR 101 from to incorporate:

- Coordination with GEC regarding previous channel in review comments and achieve environmental clearance
- ROW Acquisition process support develop 7 Exhibit underdrains, 1 grading layout), earthwork calculations
- Underdrain Designs to facilitate negotiation process
- Parcel revisions for land swap instead of acquisition
- Prepare Access Layout (Parcel 47) in response to st
- Additional / Revised Environmental Exhibits in respon to achieve environmental clearance for project
- Revise Impact Assessment of Roadway & Grading Pla
- Revise Pre-Construction Notification (PCN)
- Revise Archeological Technical Report
- Prepare Environmental Technical Report

The ENGINEER will perform all work and prepare all delivera applicable/current requirements of the Williamson County Design Cr Texas Manual of Uniform Traffic Control Devices for Streets and High and the TxDOT 2014 Standard Specifications for Construction of H (English units).

FC 120 **ENVIRONMENTAL STUDIES AND PUBLIC INVOLVI**

GENERAL

coordinating with and addressing U.S. Army Corps of Engineers (Commission (THC) review comments. These comments warrar preparation, stakeholder coordination, and revisions to the environm proposed project. previously anticipated or included in the original Scope of Services. TENGINEER also includes the preparation of a separate Environm The work to be performed by the ENGINEER under this supplemental v

FC 120 **ENVIRONMENTAL STUDIES AND PUBLIC INVOLVE**

Addressing comments from USACE regarding the proposed improven Class Culvert, (implemented as a result of comments received at 60%

Revise Impact Assessment of Roadway & Grading Plans

Page 1 of 5 ATTACHMENT B-5

Co. CR 101 – US 79 to Chandler	
SINEER	
ization shall consist of providing designs and associated plans, US 79 to north of Chandler Road	
nprovements to resolve USACE	
s (2 ponds, 2 economic units, 2 cross sections, contours	
akeholder request nse to USACE review comments	
ins	
ables in accordance with the iteria Manual, the TxDOT 2011 ways, including latest revisions, lighways, Streets, and Bridges	
EMENT	
work authorization shall consist of (USACE) and Texas Historical nted additional design, exhibit nental documents that were not	
he work to be performed by the ental Technical Report for the	
MENT	
nents to grading north of Bridge- 6 review).	

Contract: Williamson Co. CR 101 - US 79 to Chandler

ENGINEER will revise designs and revise associated exhibits to include modifications to impact calculations will be generated for the PCN. The ENGINEER will revise the geoproposed grading and drainage structures to address USACE review comments. Additional referenced CAD and GIS shapefile and provide PDFs to be included in the PCN.

- Ы
- Revise PCN (USACE Form Completion w/ Attachments)
 ENGINEER shall revise PCN for submittal to the USACE, Fort Worth District, Regulatory Division for confirmation of project authorization under Nationwide Permit (NWP) 14 (Linear comments related to avoidance at stream IS-3 (northern stream and wetland crossing). ENGINEER shall provide a revised Draft PCN and Final PCN for the County's review and USACE's review and approval. Transportation Projects) based on USACE comments. Revisions shall address the USACE's
- ယ Revise Archeological Survey Report

The ENGINEER will perform additional on-site cultural resource investigations to meet THC Antiquities Code of Texas compliance and USACE Section 106 compliance. This additional field work will be documented in the revised Archeology Survey Report. ENGINEER shall provide a revised Draft Archeological Survey Report and Final Archeological Survey Report (as an attachment to the PCN deliverable) for the County's review and USACE's and THC's review and

4. Prepare Environmental Technical Report

report in accordance with environmental due diligence requirements outlined in the latest version of the County's Design Criteria Manual. ENGINEER shall provide a Draft and Final Environmental Technical Report for the County's review and approval. The ENGINEER will conduct an environmental review, data analysis, and prepare a technical

Ċ control to ensure completeness of PCN revisions, environmental clearance process, obtain non-participation documentation from County; oversee quality assurance and quality to assess USACE review comments; manage adjustments to design and corresponding exhibits; The ENGINEER will provide continuous coordination with subconsultants and GEC review team compliance with COUNTY procedures.

DELIVERABLES

- Revised Draft and Final Pre-Construction Notification, with attachments
- Revised Draft and Final Archeological Survey Report
- Draft and Final Environmental Technical Report





Contract: Williamson Co. CR 10 Supplemental Work Aut

FC 150 **AERIAL MAPPING AND DESIGN SURVEY**

- Prepare/revise parcel documents for acquisition process

 a. The ENGINEER will perform sufficient property records rese ownership and deed information of affected properties.
- ਲ਼ The ENGINEER will perform revisions to certain parcel document swap instead of the acquisition originally anticipated.
- ဂ The ENGINEER will update the ROW electronic (dgn) file
- ٩ The ENGINEER will develop two (2) exhibits reflecting Econol parcels with homestead exemptions.
- Ы Stake proposed ROW line.
- The ENGINEER will re-stake the proposed ROW line at parcels owners as a result of initial boundary monuments being disubsequent to installation (McFarland and Rohde Tracts).
- ယ The ENGINEER will provide continuous coordination with GEC review requests for parcel documents necessary to facilitate ROW acquisition and parcel swap exhibits).
- The ENGINEER will provide coordination as necessary with subconsult teams to implement re-staking of ROW lines as requested.

FC 160 **ROADWAY DESIGN CONTROLS**

- Revisions to roadway plans to include additional documents for ROW
- existing features, existing and proposed drainage structures, indicating proposed earthwork and resultant slope configuration Exhibits for ROW Acquisition (plan view including existing ar
- Revisions to Earthwork Calculations to accommodate impacts to the provisions necessary to avoid potential impacts
- **Revisions to Proposed Contours**
- Revisions to Proposed and Interim Cross Sections Page 3 of 5 ATTACHMENT B-5

•

01 – US 79 to Chandler horization #5 to WA #2	
arch to obtain current	
ts to accommodate land	
mic Units for impacted	
requested by property lestroyed or disturbed	
ew team to implement process (economic unit	
ant and internal survey	
acquisition process:	
nd proposed contours, design cross sections is, etc.)	
existing ponds and/or	

Contract: Williamson Co. CR 101 - US 79 to Chandler Supplemental Work Authorization #5 to WA #2

- Develop detail associated with proposed modifications to existing water gap (Cattle Guard) to ensure integrity of structure will be maintained post CR 101 construction activities. Provisions to salvage existing structure was not included in the original scope.
- ä The ENGINEER will revise Roadway and Bridge Plan and Profile sheets to incorporate proposed Cattle Guard modifications, implementation of additional underdrain systems, modifications to Culvert 4 and Bridge-Class Culvert, modifications to proposed ROW line (swap versus acquisition).
- Þ The ENGINEER will revise design cross sections and associated earthwork quantities
- ဂ The ENGINEER will revise removal plans and miscellaneous roadway details
- ٩ The ENGINEER will determine a feasible alternative to provide potential access to adjacent properties west of existing CR 101 alignment just south of Chandler Road. Properties are separated from proposed CR 101 alignment.
- ው The ENGINEER will develop an Access Layout (plan and profile) to accommodate approved access configuration.

FC 161 DRAINAGE

Drainage plans

- Ø The ENGINEER will develop additional Underdrain Layout to accommodate requests received during acquisition process
- Ö The ENGINEER will update the Culvert Layout for Culvert 4 to accommodate the proposed underdrain systems.
- ဂ္ဂ The ENGINEER will update hydraulic analysis/design of revised Culvert 4 configuration and update Hydraulic Data sheets accordingly.
- a The ENGINEER shall make modifications to recommended channel improvements and Bridge-Class Culvert Layout to comply with ENV commitments and remain within the limitations of the NVVP 14.
- Φ The ENGINEER will develop additional Culvert Layouts to safety treat existing crossroad drainage structures within limits of proposed Access Road
- The ENGINEER will design parallel drainage structure required under proposed Access Road at connection to CR 101

FC 163 MISCELLANEOUS

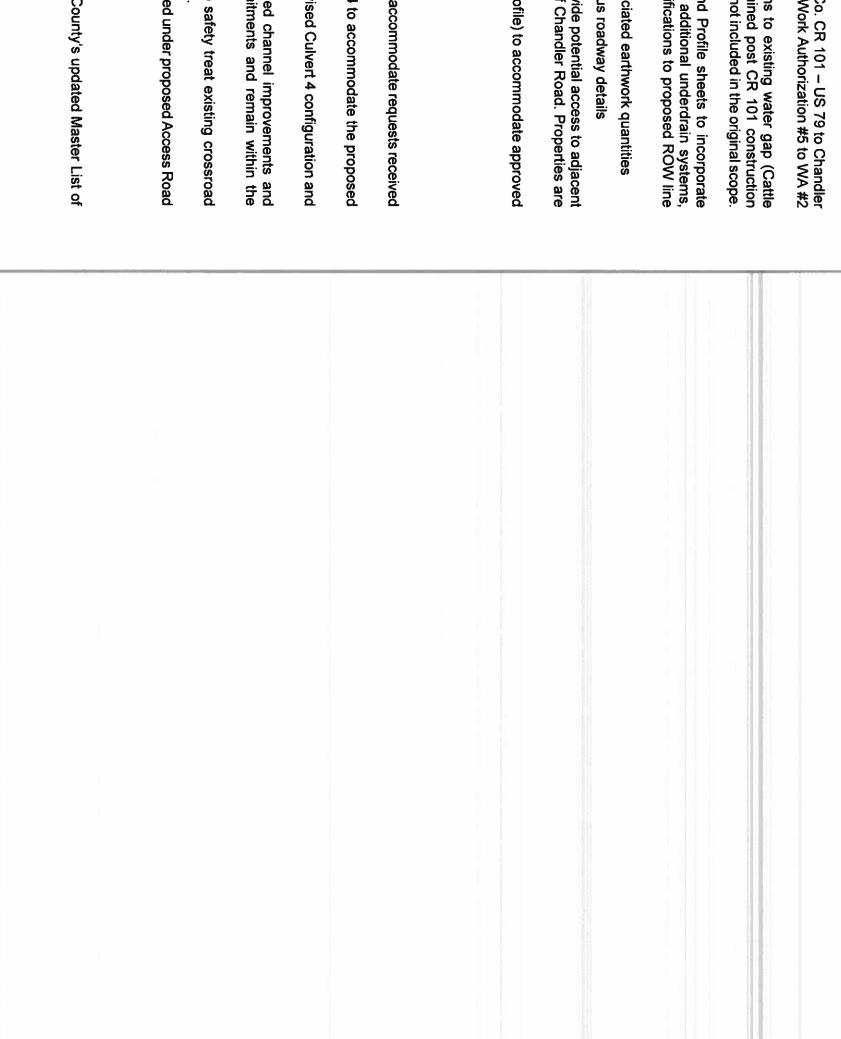
Review and update general notes with County's updated Master List of General Notes.

FC 164 PROJECT MANAGEMENT

Project Management

ဂ္ဂာ The ENGINEER will provide continuous coordination with subconsultants and GEC review team to assess USACE review comments; manage adjustments to design and

Page 4 of 5
ATTACHMENT B-5



Contract: Williamson Co. CR 101 – US 79 to Chandler Supplemental Work Authorization #5 to WA #2

corresponding exhibits; obtain non-participation documentation from County; oversee quality assurance and quality control to ensure completeness of PCN revisions, environmental clearance process, and compliance with COUNTY procedures.

 The ENGINEER will provide continuous coordination with GEC review team to implement requests for parcel documents necessary to facilitate ROW acquisition process (economic unit and parcel swap exhibits).



Page 5 of 5 ATTACHMENT B-5

ATTACHMENT C-5
PROJECT SCHEDULE - CR 101

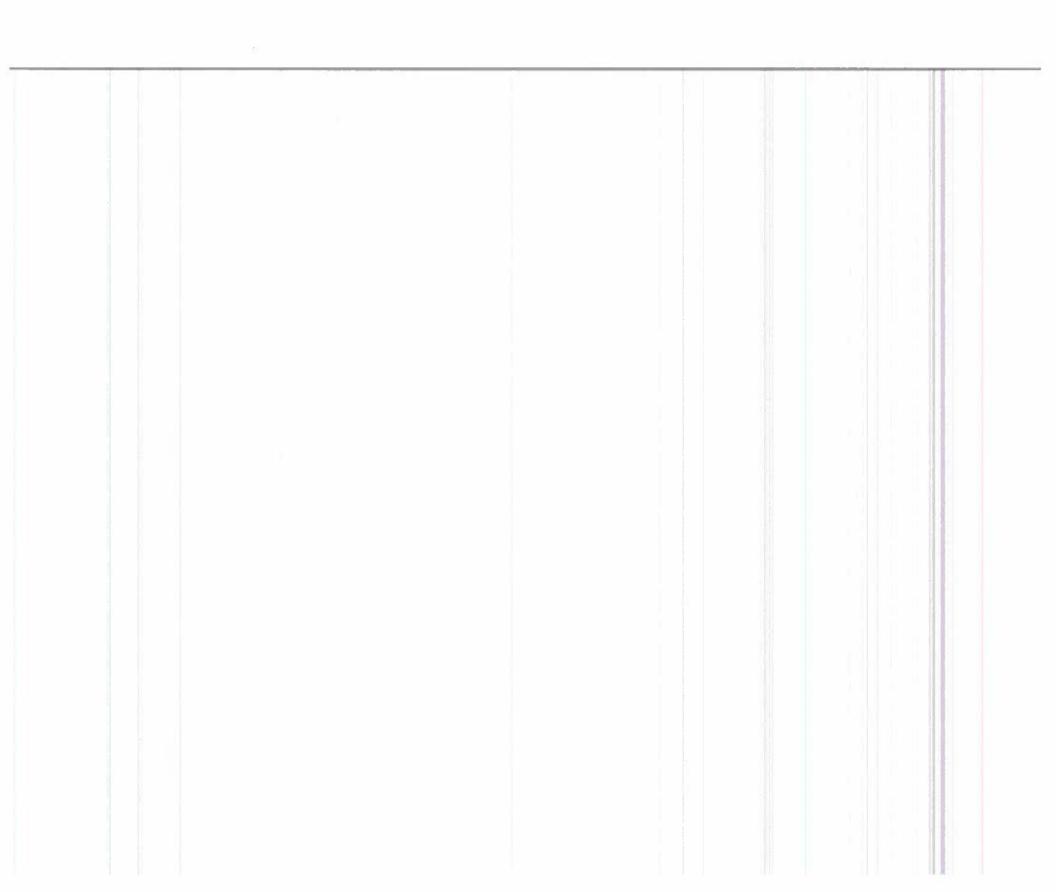
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Allan An Processia	2016							2017	[7		ļ !			
Data Collection														
Kick-off Meeting														
Submit QA/QC Plan														
DSF														
Environmental Constraints Map														
Coordination Meeting														
CR 101 Preliminary Design														
Coordination Meeting														
ROW Schematic														
County Review														
Coordination Meeting														
Draft Parcel Plats/Surveys (September 27, 2016)														
County Review														
Final Parcel Plats/Surveys (October 31, 2016)													_	
County Review														
Geotechnical Borings														
Geotechnical Recommendations														
100% Environmental Documents (October 31, 2016)				•										
Public Involvement	-													
Drainage Report	===													
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County Review														
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Coordination Meeting														
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PRIME PROVIDER NAME: BROWN & GAY ENGINEERS, Inc.
Williamson County

PROJECT NAME: CR 101 from US 79 to Chandler Road
WORK AUTHORIZATION #2 SUPPLEMENTAL WORK AUTHORIZATION #5

ATTACHMENT D - FEE SCHEDULE

				WA2 S	SUMMARY				
	Bro	wn & Gay		HDR	INLAND			T	OTAL
FUNCTION CODE	HOURS	FEES	HOURS	FEES	HOURS		FEES	HOURS	FEES
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120	164	\$31,080.00	188	\$26,040.00				352	\$57,120.00
150	107	\$17,220.00			\$9.	00	\$1,338.00	116	\$18,558.00
160	226	\$35,270.00						226	\$35,270.00
161	80	\$12,475.00						80	\$12,475.00
163	6	\$1,320.00			Ì			6	\$1,320.00
164	0	\$0.00	12	\$1,960.00			•	12	\$1,960.00
ODE								0	\$0.00
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PRIME PROVIDER NAME: BROWN & GAY ENGINEERS, INC.	
WORK AUTHORIZATION 82 SUPPLEMENTAL WORK AUTHORIZATION 65	

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PRIME PROVIDER NAME: BROWN & GAY ENGINEERS, INC. WORK AUTHORIZATION \$2 SUPPLEMENTAL WORK AUTHORIZATION \$5

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TOTAL LABOR COSTS	\$0.00	\$1,320.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,320.00		
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CONTRACT RATE PER HOUR	255	220	230	175	150	125	135	115	105	140	160		7	
TOTAL LABOR COSTS	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		
% DISTRIBUTION OF STAFFING	#DIV/0	WOIV/0!	HOIVIO	#DIV/0!	#DIV/01	#DIV/0!	#DIV/0"	#DIV/0!	#DIV/0!	#OIV/0!	#DIV/0!		3	
SUBTOTAL (FC 184)														
and the state	_											\$0.00		<u> </u>

PRIME PROVIDER NAME: BROWN & GAY ENGINEERS, INC.
WORK AUTHORIZATION \$2 SUPPLEMENTAL WORK AUTHORIZATION \$5

DESCRIPTION										TOTAL MH BY FC	TOTAL COSTS BY FC
ROUTE AND DESIGN STUDIES (FC110)		† · · · · · · · · · · · · · · · · · · ·						1		0	\$0.
INVIRONMENTAL STUDIES AND PUBLIC INVOLVEMENT (FC 120)				i e					1	164	\$31,080.
DESIGN SURVEYS & ROW (FC 150)				1						107	\$17,220
ROADWAY DESIGN (FC 160)										226	\$35,270.0
DRAINAGE (FC 161)		i i								80	\$12,475
MISCELLANEOUS (FC 163)									 	6	\$1,320.0
MANAGING CONTRACTED PER SERVICES & SURVEY CONTRACTS (FC 164)								1		0	\$0
SUBTOTAL LABOR EXPENSES								†	ì	583	\$97,365.
···		T	T i	i	i e	i e				-	
OTHER DIRECT EXPENSES (COMPLETE IN ACCORDANCE WITH YOUR CONTRACT	# OF UNITS	COST/UNIT		 100		4.			-	100	
Air Travel	0	\$ 800 00			-	1				-	\$0.0
fileage (# of miles) (current IRS rate)		\$0 575		 i –							\$0.0
Per diem		\$36.00			1			 			\$0
lotel		\$85.00			1			i —			\$0
Photocopies B/W (11 X 17)		\$0.25		 1	1						\$0
White Mylar (11 X 17)		\$3 00			1						\$0.
CD Archive		\$5.00									\$0.0
Roll Plots		\$3.00	Ī								\$0.
hotocopies Color (8 5 X 11)		\$1 50									\$0.0
hotocopies Color (11 X 17)		\$2.00						i			\$0.
SUBTOTAL DIRECT EXPENSES							i	i			\$0.

SUMMARY		
	TOTAL COSTS FOR PRIME ONLY	
	NON-SALARY (OTHER DIRECT EXPENSES) FOR PRIME ONLY	\$0.00
	GRAND TOTAL	\$97,365 00

ATTACHMENT D-FEE SCHEDULE (HDR, INC.)

PRIME PROVIDER NAME: HDR, Inc. WORK AUTHORIZATION #2 SUPPLEMENTAL WORK AUTHORIZATION #2

TASK DESCRIPTION	SENIOR PROJECT MANAGER	SENIOR ENGINEER	PROJECT ENGINEER	DESIGN ENGINEER	EIT	ENV MANAGER	SENIOR ENV PLANNER	SENIOR ENV SCIENTIST	ENV SCIENTIST	SENIOR GIS TECH	GIS TECH	SENIOR ENGINEER TECH	CADD OPERATOR	CLERICAL	TOTAL HRS	TOTAL LABOR & COSTS
Environmental Documentation (Function Code 120)																
			Į													
REVISE PRE-CONSTRUCTION NOTIFICATION	4					. 4		40	4		8				60	\$ 8,040
RÉVISE ARCHEOLOGICAL SURVEY REPORT	8					4		40	4		8	[64	\$ 9,000
PREPARE ENVIRONMENTAL TECHNICAL REPORT	8					4		40	4		8				64	\$ 9,000
				l					L							\$
																\$
HOURS SUB-TOTALS	20	0	0	0	0	12	0	120	12	0	24	0	Ö	0	188	1
ONTRACT RATE PER HOUR	\$240.00	\$195.00	\$150.00	\$125.00	\$115.00	\$230.00	\$165.00	\$125.00	\$90.00	\$135.00	\$100.00	\$115.00	\$90.00	\$65.00		Ì
TOTAL LABOR COSTS	\$4,800.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,760.00	\$0.00	\$15,000.00	\$1,080.00	\$0.00	\$2,400.00	\$0.00	\$0.00	\$0.00		\$ 26,040
% DISTRIBUTION OF STAFF HOURS	18.43%	0.00%	0.00%	0.00%	0.00%	10.60%	0.00%	57.60%	4.15%		9.22%	0.00%	0.00%	0.00%	0.00%	
SUBTOTAL (FC 129)	\$4,800.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,760.00	\$0.00	\$15,000.00	\$1,080.00	\$0.00	\$2,400.00	\$0.00	\$0.00	\$0.00		\$26,040
Project Management (Function Code 164)	- -	· · · · · · · · · · · · · · · · · · ·												-		
Coordination with BGE	4							A		 					12	\$ 1,960
									· · · · · · · · · · · · · · · · · · ·						12	3 1,900
HOURS SUB-TOTALS	4	0	0	0	0	0	0	8	0	0	0	0	D	0	12	-
CONTRACT RATE PER HOUR	\$240.00	\$195.00	\$150.00	\$125.00	\$115.00	\$230.00	\$165.00	\$125.00	\$90.00	\$135.00	\$100.00	\$115.00	\$90.00		12	
TOTAL LABOR COSTS	\$960.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$1,960
% DISTRIBUTION OF STAFF HOURS	48.98%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	51.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	100.00%	
SUBTOTAL (FC 164)	\$960.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$1,000.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00		\$1,960
				40.00		\$0.00		01,000.00	\$0.00	\$0.00	\$0.00	30.00	30.00	30.00		\$1,800
Total Project Hours	24	0	0	0	0	12	0	128	12	0	24	0	0	0		
			-			12	<u> </u>	120	 '2	- "	چې					-
Project Totals	\$5,760.00	\$0.00	\$0.00	\$0.00	\$0.00	\$2,760.00	\$0.00	\$16,000.00	\$1,080.00	\$0.00	\$2,400.00	\$0.00	\$0.00	\$0.00		\$28,000
Total Project % Distribution of Staff Hours	21%	0%	0%	0%	0%	10%	0%	57%	4%	0%	9%	0%	0%	0%		
Project Total Labor		, , , ,		210				31.74	177	1	270	214	3.0	370		\$28,000

OTHER DIRECT EXPENSES (COMPLETE IN ACCORDANCE WITH YOUR CONTRACT)	# OF UNITS	COSTAINIT		STATE OF		4		COV	0.000
Missgs (# of miles) (current IRS rate)		\$0.575	- "						\$0.00
Lodging		\$85.00							\$0.00
Per Dem		\$36 00							\$0.00
SUBTOTAL DIRECT EXPENSES									\$0.00

SUMMARY	
TOTAL COSTS FOR SUB ONLY	\$28,000 00
NON-SALARY (OTHER DIRECT EXPENSES) FOR SUB ONLY	\$0.00
GRAND TOTAL	\$26,000.00

\$ 1,338.00 9 HRS \$ 1,338.00 \$1,338.00

0 HRS

0 HRS

S54

ТЕСН	\$95			0 HRS	\$0							
1GPS	\$105			0 HRS	╫							
RPLS	\$125			O HRS	╫							
PM	\$130		1 HRS	1 HRS	\$130							
		.]				J						
											-	

Geodetics)	\$130 \$125 1 HRS 0 HRS 1 HRS 0 HRS 1 HRS 0 HRS \$130 \$0			

\$ 1,338.00 9 HRS \$ 1,338.00 \$1,338.00

0 HRS

0 HRS

0 HRS

O HRS
0 HRS

ADMIN \$54

GPS TECH

TECH \$95

1GPS \$105

\$85