CITY OF EL PASO, TEXAS AGENDA ITEM DEPARTMENT HEAD'S SUMMARY FORM

DEPARTMENT:

Engineering and Construction Management

AGENDA DATE:

December 9, 2014

CONTACT PERSON NAME AND PHONE NUMBER: Irene D. Ramirez, P.E., Interim City Engineer, 212-1831

Low Poposick Cup Matra Director 524 5910

Jay Banasiak, Sun Metro Director, 534-5810

DISTRICT(S) AFFECTED: 2, 4, and 8

SUBJECT:

That the City Manager be authorized to sign the First Amendment to the Agreement for Professional Services by and between the City of El Paso and Huitt-Zollars, Inc., a Texas Corporation, for a project known as "Dyer Corridor Rapid Transit System (Dyer RTS)" for additional architectural and engineering services in the preliminary and construction phases of the project at an additional cost of Two Hundred Eighty Eight Thousand Four Hundred Nine and 00/Dollars (\$288,409.00) thereby extending the contract amount from \$1,905,330.00 to \$2,193,739.00.

BACKGROUND / DISCUSSION:

The project is part of the City's implementation of the Rapid Transit System for the Dyer Corridor which will provide service from the Downtown Transfer Center to the Northgate Transit Terminal. The contract provides engineering services for the design of the Dyer corridor. This amendment provides for additional design services that are outside of the original agreement. These services include:

- Development of the design documents needed for the removal of an obsolete pedestrian bridge that is not ADA compliant. Pedestrian access will be maintained through ADA compliant improvements to the nearby intersection at Dyer & Ellerthorpe which were already part of this project's scope.
- Design of a "road diet" at Pershing & Copia. A "road diet" would reduce the width of the existing roadway in order to accommodate required ADA compliant pedestrian components as well as the proper placing of the stations at this location.
- Development of a smaller station design to help address design problems at locations with extremely limited right-of-way along the proposed Dyer corridor.
- Development of a communications plan which will extend fiber optic lines for use by Sun Metro and IT
 using existing, empty conduit lines along the Dyer corridor up to Fred Wilson. Extending these fiber optic
 lines is the most cost effective way of providing necessary communications ability to several stations along
 the corridor.
- Provide extra utility coordination to ensure utility conflicts are addressed as much as possible prior to construction. In addition, due to the corridor's proximity to Ft. Bliss it is also necessary to coordinate with Ft. Bliss utility companies.

PRIOR COUNCIL ACTION: December 11, 2012 Award of Original Agreement.

AMOUNT AND SOURCE OF FUNDING:

\$288,409.00 Funding Source: 2011 Certificates of Obligation Transportation Funding

BOARD / COMMISSION ACTION: N/A

DEPARTMENT HEAD:

RESOLUTION

BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF EL PASO:

That the City Manager be authorized to sign a First Amendment to the Agreement for Professional Services by and between the CITY OF EL PASO and Huitt-Zollars, Inc., a Texas Corporation, for a project known as "Dyer Corridor Rapid Transit System (Dyer RTS)" for additional architectural and engineering services in the preliminary and construction phases of the project at an additional cost of Two Hundred Eighty Eight Thousand Four Hundred Nine and 00/Dollars (\$288,409.00) thereby extending the contract amount from \$1,905,330.00 to \$2,193,739.00.

ADOPTED THISDAY	OF2014.
	CITY OF EL PASO:
	Oscar Leeser Mayor
ATTEST:	
Richarda Duffy Momsen City Clerk	
APPROVED AS TO FORM:	APPROVED AS TO CONTENT:
Chuboa Cullen Theresa Cullen	Irene D. Ramirez, P.E.
Deputy City Attorney	Interim City Engineer

THE STATE OF TEXAS)	FIRST AMENDMENT
)	AGREEMENT
COUNTY OF EL PASO)	FOR PROFESSIONAL SERVICES

This First Amendment to that certain Agreement for Professional Services is made this _____ day of _____, 2014, by and between the City of El Paso, a Texas municipal corporation (the "Owner"), and Huitt-Zollars, Inc., (the "Consultant").

WHEREAS, on December 11, 2012, the Owner entered into an Agreement for Professional Services (the "Agreement") with the Consultant for a Project known as "Dyer Corridor Rapid Transit System (Dyer RTS)" (the "Project");

WHEREAS, the Agreement may be amended under the provisions of Section 3.2 and Attachment "C"; and

WHEREAS, the Agreement further provides that the City Engineer may authorize additional services in an amount not to exceed \$50,000.00; and

WHEREAS, the parties hereto further desire to amend the Agreement to provide additional architectural and engineering services in the preliminary and construction phases of the project at an additional cost of \$288,409.00, thereby extending the contract amount from \$1,905,330.00 to \$2,193,739.00.

NOW THEREFORE, in consideration of the mutual promises set forth in this Amendment and for other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties hereto agree as follows:

- 1. <u>Scope of Services</u>. The Owner hereby authorizes the Consultant to continue to perform the Services as described in Attachment "A" of the Agreement as well as perform the additional services as further described in Attachment "A" to this First Amendment.
- 2. <u>Payments to Consultant</u>. Payments to the Consultant shall be made pursuant to the schedule enumerated within Attachment "D" of the Agreement. Payment to the Consultant for the additional services the subject of this First Amendment shall not exceed Two Hundred Eighty Eight Thousand Four Hundred Nine and 00/Dollars (\$288,409.00).
- 3. <u>Time of Completion</u>. The additional services the subject of this First Amendment shall be completed within the original project schedule as set forth in the Agreement, following the Owner's written Notice to Proceed to the Consultant.
- 4. <u>Terms and Conditions</u>. All terms and conditions of the Agreement and all subsequent Amendments thereto, except as herein revised, shall remain in full force and effect.

WITNESS THE FOLLOWING SIGNATURES AND SEALS:

	THE CITY OF EL PASO:
	Tomás González City Manager
APPROVED AS TO FORM:	APPROVED AS TO CONTENT:
Maresa Cullen	arenedl/z
Theresa Cullen Deputy City Attorney	Irene D. Ramirez P.B. Interim City Engineer
ACKN	OWLEDGEMENTS
THE STATE OF TEXAS §	
COUNTY OF EL PASO §	
This instrument was acknowledge	ed before me on this, 2014,
by Tomás González, as City Manager of	of the City of El Paso, Texas.
	Notary Public, State of Texas
My commission expires:	
	·

(Signatures continue on following page)



HUITT-ZOLLARS, INC. • 5822 Cromo Drive • Suite 210 • El Paso, TX 79912-5502 • 915.587.4339 phone • 915.587.5247 fax • huitt-zollars.com

DYER RTS SUPPLEMENTAL #1

October 28, 2014

The items mentioned in this supplemental Dyer RTS scope are additional architectural and engineering items requested by the City of El Paso and Sun Metro for the Dyer RTS corridor. The supplemental items mentioned are for the preliminary and construction phases of the project. A spreadsheet is attached to present a fee breakdown of each task for each phase of the project.

Preliminary Design Scope

PEDESTRIAN BRIDGE DEMOLITION

The existing concrete pedestrian bridge at Dyer St and Ellerthorpe St consists of ramps, support columns and "T" section spans across Dyer St. There is a single support column. Pedestrian guardrails and handrails exists along both bridge ramps with pedestrian chain link fence on the bridge across Dyer St. Demolition of the bridge will require traffic control that will consist of either one direction lane closure on Dyer St or full lane closure. These two traffic control options will be presented to TxDOT for direction. The demolition of the bridge will also require a staging area to temporarily store demolished materials prior to haul away. Provided below is a list of the tasks necessary for the demolition of the existing pedestrian bridge:

2.0 Preliminary Design

- 2.1 Project Management
 - 2.1.1 Attend coordination meetings for pedestrian bridge demolition
 - 2.1.2 Perform research for pedestrian bridge demo and field visit
- 2.3 Traffic
 - 2.3.1 Prepare exhibits for traffic control safety review meeting
 - 2.3.2 Attend safety review meeting for traffic control
 - 2.3.3 Prepare detailed traffic control plans for pedestrian bridge demolition

2.4 Civil

2.4.1 Design median refuge for north and south medians

2.6 Structural

2.6.1 Develop sequence plan for demolition of pedestrian bridge structure (request pedestrian bridge record drawings)

October 28, 2014 Page 1 of 5

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ROAD DIET

The Copia St and Pershing intersection has limited right of way to accommodate the station platforms while satisfying AASHTO sight distance criteria. In an effort to eliminate the need to acquire additional right of way for the station platforms, a road diet concept has been developed as a solution which increases parkway width by reducing the five lane roadway of Pershing Dr to four lanes. In this solution the intersection eastbound and westbound left turn lane would be eliminated shifting the adjacent traffic lanes to the center and increasing the sidewalks widths with bulb-outs. The limits of the bulb-out would extend only the length necessary for the station platform.

In the event TxDOT does not allow the road diet, an alternate station location will be determined. The design fee for the alternate location will utilize the currently allocated construction phase fee. Prior to construction, the City of El Paso will amend the contract to increase the construction phase fee which was used for design of the alternate location. Provided below is a list of the tasks necessary for the road diet design:

2.0 Preliminary Design

2.1 Project Management

2.1.1 Attend road diet coordination meetings

2.3 Traffic

- **2.3.1** Perform traffic analysis using Synchro software of before/after Levels of Service at signal with counts from EPDOT
- **2.3.2** Prepare roadway striping and typical section exhibits, and verify vehicular turning movements using Auto-Turn software
- 2.3.3 Prepare road diet traffic accident memorandum
- 2.3.4 Revise roadway signing and striping sheets

2.4 Civil

- 2.4.1 Revise grading and drainage sheets for bulb-outs
- 2.4.2 Revise station cross sections and profiles

2.7 Landscaping and Irrigation

2.7.1 Revise landscape and irrigation sheets

MINI-STATION

The Mini-station design will be implemented at locations where right of way is limited by adjacent properties or it is not possible to accommodate sight distance for standard shelters. Provided below is a list of tasks necessary for the mini-station implementation at three (3) locations:

2.0 Preliminary Design

2.1 Project Management

- 2.1.1 Attend mini-station coordination meetings
- 2.1.2 Coordination with station architect
- 2.1.3 Coordinate mini-station drawings with LAN

2.4 Civil

- 2.4.1 Revise station grading/drainage
- 2.4.2 Revise station cross-sections and profiles

2.5 Station Architecture

- **2.5.1** Develop mini-station concepts and exhibits for platform locations constrained by limited available right-of-way. The mini-station concepts will minimize the RTS platform footprint, sight distance conflicts with adjacent driveways, and potential right-of-way impacts associated with station platforms. Minimum design considerations include:
 - Maximum shelter height of approximately 10 feet
 - Retain elements of fascia of current BRIO RTS station shelter (i.e. windscreen envelope, polycarbonate elements)
 - Canopy must provide covered waiting areas for front two doors for boarding/alighting of RTS vehicles
 - Ticket vending machines (TVM) must fit beneath the canopy
 - Incorporate a minimum of two (2), 4'X5'-6" decorate panels for display of public art
- **2.5.2** Develop (Sketch-up) renderings and associated exhibits for presentation of ministation shelter concept.
- **2.5.3** Re-evaluate currently proposed RTS station amenities (passenger information, wayfinding, furniture, ticket vending, pylons, electrical and communication cabinets) to integrate/collate amenities, where feasible into the mini-station area. Develop complete and standard and directive drawings for prototypical mini-station and coordinate details of integration with LAN.
- **2.5.4** Develop complete plans, sections, elevations, details, standard and directive drawings for prototypical mini-station (canopy and superstructure; foundation/platform) and coordinate with LAN

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2.5.5 Coordinate incorporation of integrated electrical/communications amenities into Standard RTS shelters (4 types - 6X37, 6X46, 9X37, 9X46) based on standard and directive drawings from the Alameda RTS

2.6 Stations MEP & Foundation/Structural

- **2.6.1** Design complete Directive drawings and details for prototypical mini-station structural foundation options and coordinate with LAN
- **2.6.2** Design complete Standard drawings for structural design of prototypical ministation canopy and superstructure to include details for supports, connections, and frame elements and coordinate details of integration with LAN
- **2.6.3** Design complete Standard drawings of canopy illumination at prototypical ministation and coordinate details of integration with LAN
- **2.6.4** Design complete Standard drawings for electrical and communications housing with mini-station wall and pylon. Design to include the coordination of communications connections to the variable message sign, CCTV camera locations and conduit runs through the structure.
- **2.6.5** Re-design electrical and communication conduit runs for station and pylon incorporated electrical and communications cabinets for standard station canopies
- **2.6.6** Revise pedestrian illumination sheets
- **2.6.7** Coordinate incorporation of re-designed electrical and communications conduit runs for station and pylon incorporated electrical and communications cabinets and canopy illumination into standard RTS shelters (4 types 6X37, 6X36, 9X37, 9X46) based on standard and directive drawings for the Alameda RTS
- 2.6.8 Coordinate ITS equipment locations and cabling

2.7 Landscaping and Irrigation

2.7.1 Revise landscape and irrigation sheets three (3) locations.

4.0 Construction Phase Mini-Station

4.1 Construction Observation Services

4.1.1 Prepare mini-station record drawings

October 28, 2014 Page 4 of 5

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COMMUNICATIONS

Develop plans to utilize the City's existing fiber optic cable infrastructure and install fiber optic cable into spare conduit along the Dyer RTS corridor. Stations north of Fred Wilson are on an existing EPDOT copper system and will connect to the proposed fiber infrastructure. Plans sheets with existing roadway and available utility information will be developed. Conduit runs, ground boxes, proposed connections and notes, quantities and pay items, as well as details describing systems integration and fiber splicing will be included.

2.0 Preliminary Design

2.1 Project Management

- 2.1.1 Attend fiber communication coordination meetings
- 2.1.2 Coordination with WPM for fiber/copper communications systems

2.4 Civil

2.4.1 Provide available utility information

2.6 Stations MEP/Communications

2.6.1 Configure fiber and copper Infrastructure for TVMs and City's Central Data System

2.8 ITS Design

- **2.8.1** Design fiber and copper infrastructure communication links between the TVMs and Central Data System
- 2.8.2 Prepare fiber and copper infrastructure design specifications
- **2.8.3** Prepare ITS plan sheets for fiber and copper infrastructure based on aerial information and request record existing utility information

UTILITY COORDINATION

At recent bi-weekly meetings, TxDOT has expressed a sincere concern regarding the coordination of utility relocation at the proposed stations. Lessons learned from Mesa RTS also include additional coordination efforts required to follow up with and emphasize the schedule of utility relocations. An additional fee has been provided for extended utility coordination.

2.0 Preliminary Design

2.2 Utility Investigation

2.2.1 Follow up with and coordinate utility relocation and schedule with utility companies

October 28; 2014 Page 5 of 5

DYER RAPID TRANSIT SYSTEM SUN METRO/CITY OF EL PASO

Huitt-Zollars, Inc. Fee Proposal 10/28/2014

SUPPLEMENTAL #1 SUMMARY

PEDESTRIAN BRIDGE DEMOLITION	
PRELIMINARY PEDESTRIAN BRIDGE DEMOLITION	\$30,25
TOTAL PEDESTRIAN BRIDGE DEMOLITION	\$30,258
ROAD DIET	
PRELIMINARY ROAD DIET	\$21,479
TOTAL ROAD DIET	\$21,479
MINI-SHELTER	
PRELIMINARY MINI SHELTER	\$180,19
CONSTRUCTION PHASE	\$2,160
TOTAL-MINI SHELTER	\$182,357
COMMUNICATIONS	
PRELIMINARY COMMUNICATION	\$43,494
TOTAL COMMUNICATION	\$43,494
UTILITY COORDINATION	
PRELIMINARY UTILITY COORDINATION	\$10,820
TOTAL UTILITY COORDINATION	\$10,820
	OMBINED TOTAL \$288,409

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		Firm Rates	\$192.00	\$177.00	\$150,00	Project Engineer	Training	CAD Tech	Project Support
		Total per Staff	\$384.00	\$0.00			\$99.00	\$73.00	\$62.00
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		Firm Rates	\$192.00	\$177.00	\$150.00	\$146.00	\$99.00	\$73.00	\$62.00
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Expenses		
Mileage to site (3 trips)	s	99.0
Mileage to City (2 trips)	Š	28.6
Mileage to TxDOT (1 trips)	\$	52.8
	Direct Expenses Subtotal \$	180.4

TOTAL FOR 2.0 PRELIMINARY DESIGN PHASE		
I O I AL FOR 2.0 PRELIMINARY DESIGN PHASE	PED BRIDGE DEMO	
	FED BRIDGE DEMO	\$30.258

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	Firm Rates	\$192.00	\$177.00	\$150.00		\$99.00		Project Support
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2.4.1 Revise grading and drainage sheet 2.4.2 Revise station cross sections and p Subtotal otal for 2.4 Civil 2.7 Landscaping & Irrig 2.7.1 Revise landscape and imigation she	ts for bulb-outs profiles Firm Rates Total per Staff	Charge \$192.00 \$0.00	1 3 QAQC \$177.00 \$531.00	2 Project Manager \$150.00 \$300.00	2 6 Project Engineer \$146.00 \$876.00	8 24 Engineer In Training \$99.00 \$2,376.00 Engineer In Training	16 48 CAD Tech - \$73.00 \$3,504.00	Project Support \$62.00 \$0.00 \$7,587.00 Project Support
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Total for 2.4	4 Civil	Total per Staff ation/Structural	Charge \$192.00 \$192.00	\$177.00	\$150.00	\$146.00 \$2,044.00	Training \$99.00 \$3,960.00	CAD Tech \$73.00 \$4,088.00	Project Support \$62.00 \$0.00 \$11,292.00		CAD Tech	Proj Supj
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2.6.1 2.5.2 2.6.3 2.6.4 2.6.5 2.6.6 2.5.8	2.6 Stations MEP & Found Provide structural foundation optic Provide structural platform revisio Design canopy illumination Design electrical and communical Re-design electrical and communication Subtotal 6 Stations MEP & Foundation/St. 2.7 Landscaping and Revise landscape and irrigation st	Total per Staff Ilation/Structural Ins and details Ins and details Ins ions housing Ication conduit runs for mini-shelter and Inn cabinets Ins and cabling Firm Rates Total per Staff I Irrigation Intels	Charge \$192.00 \$192.00 \$192.00 Principal-in Charge 1 Principal-in Charge \$192.00 Principal-in Charge \$192.00 Principal-in Charge 1 1 Charge \$192.00	\$177.00 \$708.00 \$400 6 4 6 6 6 9 1 1 2 2 34 QAQC \$177.00 \$6,018.00	\$150.00 \$300.00 Project Manager 3 2 3 3 1 2 17 Project Manager \$150.00 \$2,550.00 Project Manager 4 Project Manager \$150.00	\$145.00 \$2,044.00 Sr. Elec. Engineer 3 3 6 1 2 15 Sr. Elec. Engineer \$155.00 \$2,475.00 Sr. Landscape Architect 12 12 Sr. Landscape \$125.00	Training \$99.00 \$3.960.00 \$3.960.00 \$3.960.00 \$3.960.00 \$3.960.00 \$32 \$32 \$32 \$32 \$32 \$32 \$32 \$32 \$33 \$33	Elect Engineer in Training 24 28 80 24 40 196 Elect Engineer in Training 7100.00 \$19,600.00 Irrigation Designer 30 Irri Designer	Project Support \$62.00 \$0.00 \$11,292.00 Sr.Structural Engineeer. 6 . 6 12 Project Sr.Structural Engineeer. \$190.00 \$2,280.00 Project Support 0 0 Project Support	Structural Engineer 56 44 100 Structural Engineer 115.00	24 12 8 32 16 24 115 CAD Tech \$73.00	Sup Pro Sup
2.6.1 2.6.2 2.6.3 2.6.4 2.6.5 2.6.6 2.6.8	2.6 Stations MEP & Found Provide structural foundation optic Provide structural platform revisio Design canopy illumination Design electrical and communical Re-design electrical and communication Subtotal 6 Stations MEP & Foundation/St. 2.7 Landscaping and Revise landscape and irrigation st	Total per Staff Iation/Structural ons and details ns ilons housing ication conduit runs for mini-shelter and mn cabinets eets ns and cabling Firm Rates Total per Staff Ilrrigation	Charge \$192.00 \$192.00 Principal-In Charge 1 Principal-In Charge \$192.00 \$192.00 Principal-In Charge \$192.00 \$192.00 Charge	\$177.00 \$708.00 QAQC 6 4 6 6 6 9 1 2 34 QAQC \$177.00 \$6,018.00	### ST50.00 ### ST	\$145.00 \$2,044.00 Sr. Elec. Engineer 3 3 6 1 2 15 Sr. Elec. Engineer \$155.00 \$2,475.00 Sr. Landscape Architect 12 12 Sr. Landscape \$125.00	Training	Elect Engineer in Training 24 28 80 24 40 198 Elect Engineer in Training S100.00 \$19,600.00 Irrigation Designer 30 Irri Designer \$85.00	Project Support \$62.00 \$0.00 \$11,292.00 Sr.Structural Engineeer. 6 6 6 12 Project Sr.Structural Engineeer, \$190.00 \$2,280.00 Project Support 0 0	Structural Engineer 56 44 100 Structural Engineer 115.00	24 12 8 32 16 24 115 CAD Tech \$73.00	Sup Pro Sup

TOTAL FOR 2.0 PRELIMINARY DESIGN PHASE	MINI-STATION	\$112.547
		\$113,547

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		oject Mangement	Principal-In Charge	Project Manager	QAQC	Architectura!	Transit	Intern	
	ring to the second		Tal-us	Manager	UAUC	Director	Architect	Architect	Project
2.1.1	Attend mini-station coordinate	ation meetings	the property of the	8		Light Life on thomas segment	1.1014.00		
		Subtotal	0	- 8			16		
	·		Principal-In	Project	0	0	16	0	
			Charge	Manager	QAQC	Architectural	Transit	Intern	
		Firm Rates	\$290.00	\$100.00		Director	Architect		Project
		Total per Staff	\$0.00		\$190.00	\$265.00	\$135.00	\$60.00	
Total for 2.1 Pro	oject Management	Total per Stall	<u> </u>	\$800.00	\$0.00	\$0.00	\$2,160.00	\$0.00	<u> </u>
					777		3 , 1		\$2
	2.5 Sta	tion Architecture	Principal-In	Project		Architectural	Transit	<u> </u>	
			Charge	Manager	QAQC	Director	Architect	Intern Architect	Project :
							1180.55.90.17	Architect	r roject .
2.5.1	Develop mini-station conce			4			48	60	
2.5.2		rings and associated exhibits		4			24	30	
	Develop complete standard	and directive drawings for integration of elec/comm into pylon and						30	
2.5.3	Ishekers at prototypical mini	-Station and coordinate details of integration with Alamoda DTC					24		
2.5.4	drawings for protehrical ex	ural plans, sections, elevations, details, standard and directive							
	Coordinate incorporation of	ini-station and coordinate with Alameda RTS Integrated electrical / communications amenities into Standard RTS	6		10		48	160	
	Ishekers (4 types - 6x37, 6x	46, 9x37, 9x46) based on standard and directive drawings from the							
2.5.5	Alameda RTS		2		4		30		
		Subtotal	- 8	- 8	14	0	174	14	
			Principal-In	Project		Architectural	Transit	264 Intern	
			Charge	Manager	QAQC	Director	Architect	Architect	Project S
		Firm Rates	\$290.00	\$100.00	\$190.00	\$265.00	\$135.00	\$60.00	riojeci
T-1-11. 0 # 0:		Total per Staff	\$2,320.00	\$800.00	\$2,660.00	\$0.00	\$23,490.00	\$15,840.00	-
i otal for 2.5 Sta	ntion Architecture						1-1,100,000	410,010.00	\$45
							TOTAL TOTAL		\$45,
	2.	6 Structural	Principal-In	Project		Architectural	Transit	Intern	
	1 1 2 2 2 2 2 2		Charge	Manager	QAQC	Director	Architect		Project S
·		Section 1 and 1 an					#74.5 · · · .		7.2
2.6.2	superstructure Coordinate	drawings for structural design of prototypical mini-station canopy and details of integration with Alameda RTS							
	Design complete Standard	details of integration with Alameda RTS drawings of canopy illumination at prototypical mini-station and	0	0	0	0	0	0	60
2.6.3	coordinate details of integra	urawings or carropy illumination at prototypical mini-station and	.	_					
	Design complete Standard	drawings for electrical and communications housing with mini-station		D	4	0	28	0	12
2.6.4	wall and pylon.	THE STATE OF THE PROPERTY OF THE STATE OF TH	0	ا ه	0	0	16	20	_
	Coordinate Incorporation of	re-designed electrical and communication conduit runs for station and		<u> </u>			16	30	0
	Ipylon incorporated electrica	and communications cabinets and canony illumination into Standard	-						
	K 13 SHEILERS (4 Types - 6X3	7, 6x46, 9x37, 9x46) based on standard and directive drawings from	1						
2.6.7	the Alameda RTS			0	0	o	16	36	0
		Subtotal	0	0	4	0	60	66	
			Principal-In	Project		Architectural	Transit	Intern	
			Charge	Manager	QAQC	Director	Architect		Project s
		Firm Rates	\$290.00	\$100.00	\$190.00	\$265,00	\$135.00	\$60.00	
Total for 2.6 Str		Total per Staff	\$0.00	\$0.00	\$760.00	\$0.00	\$8,100.00	\$3,960.00	\$1

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\$66,650

MINI-STATION

TOTAL FOR 2.0 PRELIMINARY DESIGN PHASE

		Subtot	tal		0 Principal-In	0 Project	0	0 Architectural	16 Transit	0 Intern	Project
	4.1.1		ation record drav		A CONTROL OF THE PARTY OF THE P				16		
	4.1 Const	ruction Obs	servation Serv	Marie Company of the second stage and	Principal-In Charge	Project Manager	QAQC	Architectural Director	Transit Architect	Intern Architect	Project Support
4.0 CONST	RUCTION	PHASE	M	INI-STATION							JACOB
Fee Proposal 10/28/2014				17.01							
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TOTAL COD 4 0 CONSTRUCTION THAN		
TOTAL FOR 4.0 CONSTRUCTION PHASE	MINI-STATION	4
		\$2,160
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PRELIMINARY DESIGN PHASE COMMUNICATIONS							
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		<u> </u>		<u> </u>			
2.1 Project Mangement	Principal-In Charge	QAQC	Project Manager	Project Engineer	Engineer In Training	CAD Tech	Project Support
2.1.1 Attend fiber communication coordination meetings		LECTRON CONTROL		的人的工作。		Let You have	
2.1.2 Coordination with WPM for communications	<u> </u>		15	12			
Subtotal			8		16		
- Cubiculi	4	0	23		16	0	0
Firm Rates	Principal-In	QAQC			Engineer In	CAD Tech	Project Support
Total new Ctaff	\$192.00	\$177.00	\$150.00	7	\$99.00	\$73.00	\$62.00
ling Total for 2.1 Project Management	\$768.00	\$0.00	\$3,450.00	\$1,752.00	\$1,584.00	\$0.00	\$0.00
	No. of the Contract			 			\$7,554.00
0.4.00.01	Principal-In				<u> </u>		
2.4 Civil	Charge	QAQC	Project Manager	Project Engineer	Engineer In Training	CAD Tech	Project Support
2.4.1 Provide available utility information	The state of the s	The state of the s					
The state of the s			11		2	2	
Subtotal	0	0	1	0	2	2	
	Principal-In Charge	QAQC	Project Manager	Project Engineer	Engineer In Training	CAD Tech	Project Support
Firm Rates	\$192.00	\$177.00	\$150.00	\$146.00	\$99.00	\$73.00	\$62.00
Total per Staff	\$0.00	\$0.00	\$150.00	\$0.00	\$198.00	\$146.00	\$0.00
ling Total for 2.4 Civil					ψ150.00	\$ 140.00	
	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			The state of the s			\$494.00

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TOTAL FOR 2.0 PRELIMINARY DESIGN PHASE	COMMUNICATIONS	
		\$8,048
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ELIMIN	ARY DESIGN PHASE	COMMUNICATIONS						WALTER P. MOORE
	and the second s							WEIERT : MOOKE
	2.1 Project Mangem	ent	Principal-In			Graduate	Senior CADD	
			Charge	Team Director	Senior Designer	Engineer	Tech	Admin Assistant
							16011	Aumin Assistant
2.1		ation meetings	The second secon	and the second second	15	15		
	Subtotal		0	0		15		
			Principal-In			Graduate		0
		·	Charge	Team Director	Senior Designer	Engineer	Senior CADD	
		Firm Rates	\$171.91	\$153.66	\$144.85	\$92.84	Tech	Admin Assistant
		Total per Staff	\$0.00	\$0.00		\$1,392.60	\$90.95	\$57.92
otal for 2.	1 Project Management			Ψ0.00	ΨΕ,172.15	\$1,392.60	\$0.00	\$0.00
<u> </u>			100 M		the state of the s	2.77		\$3,565.35
	2 6 Stations MEDIO	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Principal-In					
	2.6 Stations MEP/Commu	nications	Charge	Team Director	0	Graduate	Senior CADD	
· · · · · ·			Unarye	Team Director	Senior Designer	Engineer	Tech	Admin Assistant
2.6	.1 Configure fiber and copper infrastru	cture for TVMs and City's Central Data Sy			No. of the last of			
	Subtotal	ottor TVINS and City's Certifal Data Sy		2	24	24	40	
	Gubiotal		0	2	24	24	40	O
			Principal-In			Graduate	Senior CADD	
			Charge	Team Director	Senior Designer	Engineer	Tech	Admin Assistant
		Firm Rates	\$171.91	\$153.66	\$144.85	\$92.84	\$90.95	\$57.92
	6 Stations MEP/Communications	Total per Staff	\$0.00	\$307.32	\$3,476.40	\$2,228.16	\$3,638.00	\$0.00
Cotal for 2	O Stations MEP/Communications							\$9,649.88
otal for 2.						Material Control		75,5.5.00
otal for 2.								
otal for 2.	2.8 ITS Design		Principal-In			Graduate I	Senior CADD 1	l .
otal for 2.	2.8 ITS Design		Principal-In Charge	Team Director	Senior Designer	Graduate Engineer	Senior CADD Tech	Admin Assistant
				Team Director	Senior Designer	Graduate Engineer	Senior CADD Tech	Admin Assistant
2.8.1	Design fiber and copper infrastructu	re comm links				Engineer	Tech	
2.8.1 2.8.2	Design fiber and copper infrastructu Prepare fiber and copper infrastruct	ure design specs	Charge	Team Director 4	24	Engineer 24	Tech 40	16
2.8.1 2.8.2	Design fiber and copper infrastructu Prepare fiber and copper infrastructu Prepare ITS paln sheets for fiber an	ure design specs	Charge 2	4	24 14	Engineer 24 14	Tech 40 0	16 0
2.8.1 2.8.2	Design fiber and copper infrastructu Prepare fiber and copper infrastruct	ure design specs	Charge 2 0	4 0	24 14 20	24 14 26	40 0 26	16 0 0
2.8.1	Design fiber and copper infrastructu Prepare fiber and copper infrastructu Prepare ITS paln sheets for fiber an	ure design specs	2 0 0 0 2	4 0	24 14	24 14 26 64	40 0 26 66	16 0 0
2.8.1 2.8.2	Design fiber and copper infrastructu Prepare fiber and copper infrastructu Prepare ITS paln sheets for fiber an	ure design specs	Charge 2 0 0 2 Principal-In	4 0 0 4	24 14 20 58	24 14 26 64 Graduate	40 0 26 66 Senior CADD	16 0 0 0
2.8.1 2.8.2	Design fiber and copper infrastructu Prepare fiber and copper infrastructu Prepare ITS paln sheets for fiber an	ure design specs	Charge 2 0 0 2 Principal-In Charge	4 0 0 0 4 Team Director	24 14 20 58 Senior Designer	24 14 26 64 Graduate Engineer	40 0 26 66 Senior CADD Tech	16 0 0 16 Admin Assistant
2.8.1 2.8.2 2.8.3	Design fiber and copper infrastructu Prepare fiber and copper infrastructu Prepare ITS paln sheets for fiber an	ure design specs d copper infrastructure	Charge 2 0 0 2 Principal-In	4 0 0 4	24 14 20 58	24 14 26 64 Graduate	40 0 26 66 Senior CADD	16 0 0 0

TOTAL FOR 2.0 PRELIMINARY DESIGN PHASE		
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TABLE	COMMUNICATIONS	¢2E 44C
		333,440
	COMMONIONION	\$35,446

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0 PRELIMINARY DESIGN PHASE UTILITY COORDINAT	ION						HUITT-ZOLLARS
				San Array Control			HUITI-ZULLARS
2.2 Utility Investigation	Principal-In Charge	QAQC	Project Manager	Project Engineer	Engineer In Training	CAD Tech	Project Support
2.2.1 Follow up with and coordinate utility relocation and coholyle	The second secon				10 15 16 16 16 16 16 16 16 16 16 16 16 16 16		a veloci ouppoit
2.2.1 Follow up with and coordinate utility relocation and schedule Subtotal	4		16	16	36	24	
	4	0	16		36	24	0
Ft D.4	Principal-In	QAQC		Project Engineer	Engineer In	CAD Tech	Project Support
Firm Rat	7	<u>\$177.00</u>			\$99.00	\$73.00	
ling Total for 2.2 Utility Investigation Total per Sta	aff \$768.00	\$0.00	\$2,400.00	\$2,336.00	\$3,564.00	\$1,752.00	
	12.75.813	The way was a					\$10,820.00
the state of the s						<u></u>	

TOTAL FOR 2.0 PRELIMINARY DESIGN PHASE		
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TABLE	UTILITY COORDINATION	640.000
		\$10.820



DYER CORRIDOR RAPID TRANSIT SYSTEM (DYER RTS)

ADDITIONAL SERVICES AMENDMENT to PROFESSIONAL SERVICES AGREEMENT









Dyer RTS

- The Dyer RTS Corridor will extend from the Downtown Transfer Center (Santa Fe & 3rd) to the Northeast Terminal (Dyer & Diana).
- The corridor will have 11 stops and cover approximately 10.5 miles.
- This project terminates at Hondo Pass &
 Dyer. The Northeast Terminal will be completed as a separate project.



Scope of Work

- Removal of non-ADA compliant pedestrian bridge
- Design of a "road diet" at Pershing & Copia
- Development of modified station design
- Development of a communications plan
- Provide extra utility coordination



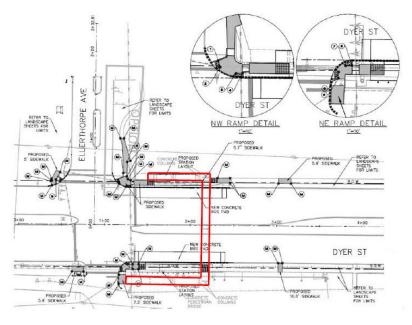


Removal of pedestrian bridge

 Development of the design documents needed for the removal of the obsolete nonaccessible pedestrian bridge. Pedestrian access will be maintained and improved through the addition of accessible sidewalk, signal and roadway components to the nearby intersection at Dyer & Ellerthorpe which were already part of this project's scope.



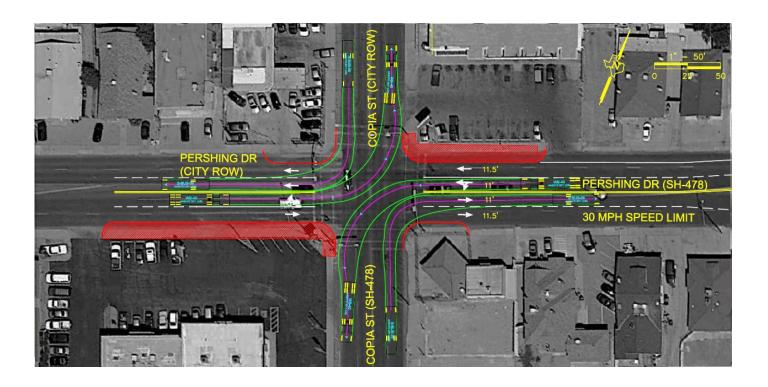






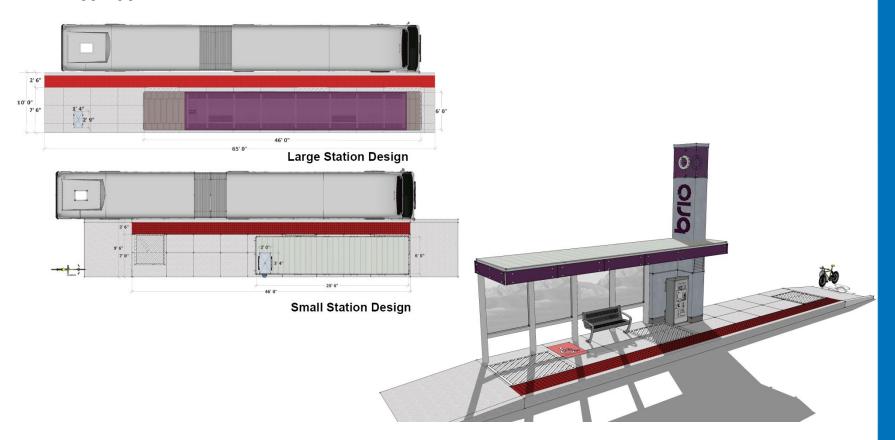
Design of a "road diet" at Pershing & Copia

A "road diet" would reduce the width of the existing roadway in order to accommodate required accessible pedestrian components as well as the proper placing of the stations at this location.





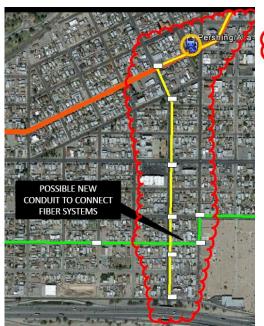
 The new smaller station design will provide an additional ADA compatible option to help address problems at locations with extremely limited right-of-way along the proposed Dyer corridor.

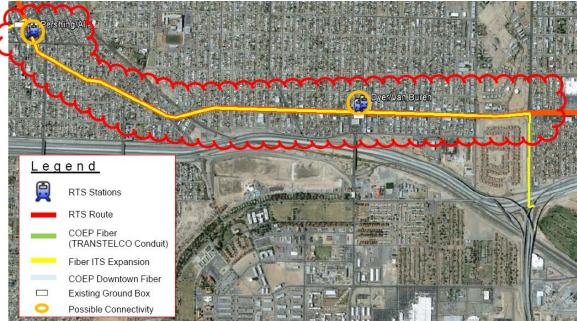




Development of Communications Plan

This plan which will extend fiber optic lines for use by Sun Metro and IT using existing, empty
conduit lines along the Dyer corridor up to Fred Wilson. Extending these fiber optic lines is
the most cost effective way of providing necessary communications ability to several stations
along the corridor.







Provide extra utility coordination

 This is necessary in order to ensure utility conflicts are addressed as much as possible prior to construction. Due to the corridor's proximity to Ft. Bliss it is necessary to coordinate with Ft. Bliss utility companies in addition to coordinating with utility companies.





Request

ltem	Source	Amount
ORIGINAL CONTRACT AMOUNT	2011 Transportation COs	\$1,905,330.00
TODAY'S TOTAL REQUEST FOR ACTION	2011 Transportation COs	\$288,409.00
TOTAL PROJECT <u>DESIGN</u> EXPENDITURES NOT TO EXCEED		\$2,193,739.00



Questions/Comments