ADENDUM NO. 2

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES

PROJECT NAME: **Houston Street – AT&T Parkway to IH 10**

DATE: 1/22/13

This addendum should be included in and be considered part of the plans and specifications for the name of this project. The contractor shall be required to sign an acknowledgement of the receipt of this addendum and submit with their bid.

CIMS PROJECT NO.:**40-00212**

UPDATES:

- **The Heavy Highway Wage Decision has changed. The new decision dated January 4, 2013 is attached and will be utilized for the Houston Street Project. See attached.**

- **The following items will be deleted from the project:**
  9999-2021 1 ½" & 2" Copper Service Line Break/Leak Repair
  9999-2022 8" Main Break/Leak Repair
  9999-2023 12" Main Break/Leak Repair
  9999-2024 36" Main Break/Leak Repair

- **Replace Item 0550-2001 Chain Link Fence (Install)(6') with Item 0550-2037 Chain Link Fence (Install)(6')Barb Top**

- **Add Item 0550-XXXX Gate (Install)(Single)(Barb Top)(6'X6') – 1 EA**

- **Add the following note to the General Notes of the Houston Street Project:**

  "*Contractor will be responsible for any charges to having OHE de-energized for construction of new bridge"*

- **Q: Will items for Mobilization and Preparation of Right of Way be added to the Water and Sanitary Sewer bid items?**
  A: No. The intent is to include the water and sanitary sewer mobilization and preparation of right of way with the overall (project) items and not break them out.

- **Q: Can the contractor shut traffic down to one lane during beam setting?**
  A: COSA would entertain the idea of closing traffic to one lane to set bridge beams. The contractor must provide adequate notice beforehand and all closures must take place during the weekend or evening on non-event days.

- **Q: Do the CTB have to be pinned on existing and proposed slab?**
  A: The CTB would only have to be pinned if there is not enough clear distance for barrier to displace (2' or more).

- **Q: Can you tell the contractors the contact @ CPS to get the power shut off during beam set?**
  A: Contractors must coordinate with John Offer, CPS Energy (210)353-2012, to determine the procedure for requesting power shut off. Please note that there will also need to be adequate advance notice for power shut off requests.

- **Q: Where can we find the information on the dirty dirt at the drill shaft locations?**
  A: Special Provision 006-030 provides a map of the impacted areas as part of the waste management plan. An updated version of this provision will be provided at a later date.

- **Q: Will all the dirty dirt from the drill shaft excavation be able to stay on the project and used for fill?**
  A: Final clarification will be provided at a later date.

- **Q: What kind of finish on the proposed retaining wall?**
  A: The finish should be the TxDOT Mission Region texture Form liner finish A (Teton dry stack), Scott System #189 Teton Dry Stack or approved equal. No finish color required, but anti- graffiti coating is required.

- **Q: Does the bridge rail or retaining wall get any kind of special finish (paint)?**
  A: No special finish or paint will be used on the bridge.

- **Q: Does the general contractor have to be TxDOT qualified to bid this project?**
  A: Yes, Special Provision 002-017 outlines those requirements.

- **Q: It appears that all 29 locations that call for work zone crash cushions are intended to protect the ends of LPCB runs. Neither the ABSORB 350 and, I think, the ACZ are able to attach to LPCB since the barrier is actually too low for anchorage. It is unusual to see CCAs protecting LPCB; however, if you want to do this, for the ABSORB 350, a 20' section of PCTB, CSB, or SSCB would need to be placed between the ABSORB and the LPCB in order to provide sufficient barrier height and mass for attachment.**
  A: The ACZ-350 are especially needed at locations where the driveways are too close together to utilize the Type 2 (tapered end) LPCB. Contractor may use the Type 2 LPCB in lieu of ACZ-350 where applicable. Where there is room to add a 20' section of PCTB, CSB, or SSCB for the ACZ-350 please do so.

- **Q: What speed do you want the CCAs rated for? I cannot find any direction on this in either the plans or the general notes. It looks like the WZ speed is 30 mph. I can provide a 2 bay/ 31 mph , 3 bay/37 mph, 4 bay/ 40 mph or 5 bay/TL-2 system or greater.**
  A: The CCAs should be rated for 35 mph.

Questions on traffic signal at Houston & Commerce: (Alliance plans)

- **Q: We will need police for traffic control during switch from existing signal to permanent signal. Is the cost of police refundable by the owner?**
  A: We will discuss with the City for resolution of this item.

- **Q: The signal layout (sheet 288) shows an electrical service next to the proposed signal controller; however, payment for this service is not addressed in the summary table for this signal (sheet 27). What type of electrical service is this and how is it to be paid?**
  A: It is our understanding that it would be provided by the City (Item 628.1)

- **Q: Can you confirm a battery backup system will not be required for the controller cabinet since one is not called for in the plans?**
  A: This item was inadvertently omitted and should be included as Item 633.1 (provided by the City of San Antonio).

- **Q: Are we to relocate the existing wireless communication radio or provide a new one?**
  A: Relocate the existing wireless communication radio.

- **Q: There is no bid item for TEMPORARY TRAFFIC SIGNALS on the project. Does that mean there will be no temporary signal work required on this project?**
  A: Yes. Existing signal is to remain operational until the proposed traffic signal installation is complete and ready to be turned on.

Questions on contraflow signal systems (AECOM plans):

- **Q: Signal layout sheet 278 & summary table sheet 28 call for overhead pole electrical services. Is this correct being that the existing services are TxDOT style underground pedestal type? What type of service is required?**
  A: These plans have been reviewed by TxDOT and City of San Antonio and are approved as is. Unless what is shown in the plans physically does not work, please use what is called out.

- **Q: Electric service summary on sheet 278 describes a service without lighting controls; whereas, the bid item description for item 628-2100 calls for lighting controls. Which is correct?**
  A: Sheet 28 calls for item 628-2063 that does not have lighting controls. Please use this item.

- **Q: Can you confirm a battery backup system will not be required for the controller cabinet since one is not called for in the plans?**
  A: These plans have been reviewed by TxDOT and City of San Antonio and are approved as is.

- **Q: Are we to relocate the existing wireless communication radios or provide new ones?**
  A: According to 680-2002, provide new wireless network equipment.

- **Q: What is the intent of note 4 on sheet 278? Is this referring to the wireless communication radios?**
  A: Yes, once the new contraflow signals are ready to be turned, make sure they are communicating with the other contraflow signals in the system.

- **Q: Item 684-2009 is for 4-conductor #12 AWG signal cable. City uses #14 AWG signal cable. Shouldn't this item be for 4-conductor #14 AWG signal cable instead?**
  A: Sheet 278 shows to use #14 AWG but sheet 28 has it as #12 AWG. It is likely that it was originally #12 AWG on sheet 28 and 278 but only sheet 278 was changed. Please use #14 AWG as shown on sheet 278.

Questions on contraflow signal systems (Alliance plans):

- **Q: Signal layout sheets 282-286 & summary table sheet 29 call for electrical services at each site but do not specify the type of service mount. Are these to be TxDOT style underground pedestal type just like the existing services that are at each site now? What type of service is required?**
  A: This item would be provided by the City.

- **Q: Can you confirm a battery backup system will not be required for the controller cabinet since one is not called for in the plans?**
  A: A battery backup system would not be required.

- **Q: Are we to relocate the existing wireless communication radios or provide new ones?**
  A: Relocate the existing wireless communication radio.

- **Q: What is the intent of note 4 on each layout sheet? Is this referring to the wireless communication radios?**
  A: Yes.

- **Q: How is removal of the existing contraflow mast arm signal systems to be paid? The AECOM plans are paying for it under item 6007-2001, shouldn't these plans do it the same way?**
  A: This item was inadvertently omitted and should be included as Item 6007-2001 (Removing Traffic Signals) – 4 EACH

- **Q: How are the 1-section signal back plates to be paid? The AECOM plans are paying for them under item 682-2028, shouldn't these plans do it the same way?**
  A: Alliance plan sets use Item 6027-2001 (Lane Control Signal Equipment) instead of Item No. 682-9999 (Changeable traffic signal section?)

- **Q: Why has item 655.2 CONTROLLER PEDESTAL POST @ 5 EA been included? A Type 332 controller cabinet doesn't require a pedestal post of any kind. Why the item?**
  A: This item has been erroneously included and should be omitted.

Questions on small sign assemblies:

- **Q: How are the proposed sign assemblies in the summary table on sheet 30 to be paid? There are no bid items for new small sign assemblies only relocated ones.**
  A: This item was inadvertently omitted and should be included as Item INSTALL SMALL ROAD SIGN SUPPORT & ASSEMBLY TYS80(1)WS(P) – 2 EACH

- **Q: What are the correct quantities for bidding since the summary tables (particularly sheet 27 for the traffic signal intersection) do not well represent what is found on the plan layouts. Items like conduit & wire footage do not match the plan sheets and several items shown in the layouts are not even mentioned on the summary table.**
  A: The quantities shown on the Proposal Form are the quantities that should be bid. If there are discrepancies on summary sheets and layouts, they will be dealt with at a later date.

ATTACHMENTS:

- **Heavy Highway Wage Decision January 2013**
- **Updated Proposal Form**
- **Updated General Notes**

CITY OF SAN ANTONIO
DEPARTMENT OF CAPITAL IMPROVEMENTS MANAGEMENT SERVICES
CONTRACT SERVICES DIVISION

RECEIPT OF ADDENDUM NUMBER(S) **2** IS HEREBY ACKNOWLEDGED FOR PLANS AND

SPECIFICATIONS FOR CONSTRUCTION OF **Houston Street: AT&T Parkway to IH-10**

FOR WHICH BIDS WILL BE OPENED ON **TUESDAY, January 29, 2013 AT 2:00 P.M.**

THIS ACKNOWLEDGEMENT MUST BE SIGNED AND RETURNED WITH THE BID PACKAGE.

Company Name: _____

Address: _____

City/State/Zip Code:_____

Date: _____

_____
Signature

_____
Print Name/Title

TEXAS COUNTIES IDENTIFIED BY
WAGE RATE ZONES: 7, 8, 11, 12, 14, 16, 18, 34, 35, 37, 38, 40, 41, 54, 56, 63

County Name	Zone	County Name	Zone	County Name	Zone	County Name	Zone
Anderson	38	Donley	54	Karnes	37	Reagan	54
Andrews	54	Duval	41	Kaufman	35	Real	54
Angelina	38	Eastland	54	Kendall	16	Red River	38
Aransas	40	Ector	7	Kenedy	41	Reeves	18
Archer	35	Edwards	18	Kent	54	Refugio	37
Armstrong	7	El Paso	34	Kerr	37	Roberts	54
Atascosa	16	Ellis	35	Kimble	54	Robertson	16
Austin	56	Erath	38	King	54	Rockwall	35
Bailey	54	Falls	38	Kinney	18	Runnels	54
Bandera	16	Fannin	38	Kleberg	37	Rusk	11
Bastrop	16	Fayette	37	Knox	54	Sabine	38
Baylor	54	Fisher	54	Lamar	38	San Augustine	38
Bee	37	Floyd	54	Lamb	54	San Jacinto	56
Bell	16	Foard	54	Lampasas	16	San Patricio	40
Bexar	16	Fort Bend	56	LaSalle	41	San Saba	54
Blanco	37	Franklin	38	Lavaca	37	Schleicher	54
Borden	54	Freestone	38	Lee	37	Scurry	54
Bosque	38	Frio	37	Leon	38	Shackelford	54
Bowie	11	Gaines	54	Liberty	56	Shelby	38
Brazoria	56	Galveston	56	Limestone	38	Sherman	54
Brazos	16	Garza	54	Lipscomb	54	Smith	11
Brewster	18	Gillespie	37	Live Oak	37	Somervell	38
Briscoe	54	Glasscock	54	Llano	37	Starr	41
Brooks	41	Goliad	40	Loving	54	Stephens	54
Brown	54	Gonzales	37	Lubbock	7	Sterling	54
Burleson	16	Gray	54	Lynn	54	Stonewall	54
Burnet	37	Grayson	35	Madison	38	Sutton	18
Caldwell	16	Gregg	11	Marion	38	Swisher	54
Calhoun	40	Grimes	38	Martin	54	Tarrant	35
Callahan	35	Guadalupe	16	Mason	37	Taylor	7
Cameron	8	Hale	54	Matagorda	37	Terrell	18
Camp	38	Hall	54	Maverick	41	Terry	54
Carson	7	Hamilton	38	McCulloch	54	Throckmorton	54
Cass	38	Hansford	54	McLennan	16	Titus	38
Castro	54	Hardeman	54	McMullen	41	Tom Green	7
Chambers	56	Hardin	56	Medina	16	Travis	16
Cherokee	38	Harris	56	Menard	54	Trinity	38
Childress	54	Harrison	63	Midland	7	Tyler	38
Clay	35	Hartley	54	Milam	38	Upshur	11
Cochran	54	Haskell	54	Mills	54	Upton	54
Coke	54	Hays	16	Mitchell	54	Uvalde	41
Coleman	54	Hemphill	54	Montague	54	Val Verde	18
Collin	35	Henderson	38	Montgomery	56	Van Zandt	38
Collingsworth	54	Hidalgo	8	Moore	54	Victoria	14
Colorado	37	Hill	38	Morris	38	Walker	38
Comal	16	Hockley	54	Motley	54	Waller	56
Comanche	54	Hood	38	Nacogdoches	38	Ward	54
Concho	54	Hopkins	38	Navarro	38	Washington	38
Cooke	54	Houston	38	Newton	38	Webb	8
Coryell	16	Howard	54	Nolan	54	Wharton	37
Cottle	54	Hudspeth	18	Nueces	40	Wheeler	54
Crane	54	Hunt	35	Ochiltree	54	Wichita	12
Crockett	18	Hutchinson	54	Oldham	54	Wilbarger	54
Crosby	7	Irion	7	Orange	56	Willacy	41
Culberson	18	Jack	38	Palo Pinto	38	Williamson	16
Dallam	54	Jackson	37	Panola	38	Wilson	16
Dallas	35	Jasper	38	Parker	35	Winkler	54
Dawson	54	Jeff Davis	18	Parmer	54	Wise	35
Deaf Smith	54	Jefferson	56	Pecos	18	Wood	38
Delta	35	Jim Hogg	41	Polk	38	Yoakum	54
Denton	35	Jim Wells	37	Potter	7	Young	54
DeWitt	37	Johnson	35	Presidio	18	Zapata	41
Dickens	54	Jones	35	Rains	38	Zavala	41
Dimmit	41			Randall	7		

The wage rates listed are those predetermined by the Secretary of Labor and State Statue to be the minimum wages paid. To determine the applicable wage rate zone, a list entitled "TEXAS COUNTIES IDENTIFIED BY WAGE RATE ZONES" is provided in the contract. Any wage rate that is not listed must be submitted to the Engineer for approval. IMPORTANT NOTICE FOR STATE PROJECTS; only the controlling wage rate zone applies to the contract. Effective 1-4-2013

CLASS. #	CLASSIFICATION DESCRIPTION	ZONE TX07 1/4/13	ZONE TX08 1/4/13	ZONE TX11 1/4/13	ZONE TX12 1/4/13	ZONE TX14 1/4/13	ZONE TX16 1/4/13	ZONE TX18 1/4/13	ZONE TX34 1/4/13	ZONE TX35 1/4/13	ZONE TX37 1/4/13	ZONE TX38 1/4/13	ZONE TX40 1/4/13	ZONE TX41 1/4/13	ZONE TX54 1/4/13	ZONE TX56 1/4/13	ZONE TX63 1/4/13
1428	Agricultural Tractor Operator						$12.69					$12.35			$11.75		
1300	Asphalt Distributor Operator	$14.87	$13.48	$13.88			$15.55	$15.72	$13.28	$15.32	$15.62	$14.36	$14.25	$14.03	$13.75	$14.06	$14.40
1303	Asphalt Paving Machine Operator	$13.40	$12.25	$12.35	$13.87		$14.36	$14.20	$13.26	$13.99	$14.68	$12.92	$13.44	$12.53	$14.00	$14.32	$12.99
1106	Asphalt Raker	$12.28	$10.61	$12.02	$14.21		$12.12	$11.64	$11.44	$12.69	$12.05	$11.34	$11.67	$11.40	$12.59	$12.36	
1112	Batching Plant Operator, Asphalt																
1115	Batching Plant Operator, Concrete																
1214	Blaster																
1615	Boom Truck Operator						$18.36										
1444	Boring Machine Operator																
1305	Broom or Sweeper Operator	$11.21	$10.33	$10.08			$11.04	$11.62		$11.74	$11.41	$10.30		$10.23	$10.60	$12.68	$11.05
1144	Communications Cable Installer																
1124	Concrete Finisher, Paving and Structures	$13.55	$12.46	$13.16	$12.85		$12.56	$12.77	$12.44	$14.12	$13.04	$13.38		$12.80	$12.79	$12.98	$13.32
1318	Concrete Pavement Finishing Machine Operator						$15.48			$16.05		$19.31				$13.07	
1315	Concrete Paving, Curing, Float, Texturing Machine Operator											$16.34				$11.71	
1333	Concrete Saw Operator									$14.48	$17.33					$13.99	
1399	Concrete/Gunite Pump Operator																
1344	Crane Operator, Hydraulic 80 tons or less						$18.36			$18.12	$18.04	$20.21			$18.63	$13.86	
1345	Crane Operator, Hydraulic Over 80 Tons																
1342	Crane Operator, Lattice Boom 80 Tons or Less	$16.82	$14.39	$13.85			$15.87			$17.27		$14.67			$16.42	$14.97	
1343	Crane Operator, Lattice Boom Over 80 Tons						$19.38			$20.52		$17.49			$25.13	$15.80	
1306	Crawler Tractor Operator	$13.96	$16.63	$13.62			$15.67			$14.07	$13.15	$13.38			$14.60	$13.68	$13.50
1351	Crusher or Screen Plant Operator																
1446	Directional Drilling Locator						$11.67										
1445	Directional Drilling Operator						$17.24										
1139	Electrician	$20.96		$19.87			$26.35		$20.27	$19.80		$20.92				$27.11	
1347	Excavator Operator, 50,000 pounds or less	$13.46	$12.56	$13.67			$12.88	$14.38	$13.49	$17.19		$13.88			$14.09	$12.71	$14.42
1348	Excavator Operator, Over 50,000 pounds		$15.23	$13.52			$17.71			$16.99	$18.80	$16.22				$14.53	
1150	Flagger	$9.30	$9.10	$8.50		$8.81	$9.45	$8.70		$10.06	$9.71	$9.03		$9.08	$9.90	$10.33	$8.10
1151	Form Builder/Setter, Structures	$13.52	$12.30	$13.38	$12.91	$12.71	$12.87	$12.38	$12.26	$13.84	$12.98	$13.07	$13.61	$12.82	$14.73	$12.23	$12.25
1160	Form Setter, Paving & Curb	$12.36	$12.16	$13.93	$11.83	$10.71	$12.94			$13.16	$12.54	$11.33	$10.69		$13.33	$12.34	
1360	Foundation Drill Operator, Crawler Mounted									$17.99						$17.43	
1363	Foundation Drill Operator, Truck Mounted		$16.86	$22.05			$16.93			$21.07	$20.20	$20.76		$17.54	$21.39	$15.89	
1369	Front End Loader Operator, 3 CY or Less	$12.28	$13.49	$13.40			$13.04	$13.15	$13.29	$13.69	$12.64	$12.89			$13.51	$13.32	$12.17
1372	Front End Loader Operator, Over 3 CY	$12.77	$13.69	$12.33			$13.21	$12.86	$13.57	$14.72	$13.75	$12.32			$13.19	$13.17	
1329	Joint Sealer																
1172	Laborer, Common	$10.30	$9.86	$10.08	$10.51	$10.71	$10.50	$10.24	$10.58	$10.72	$10.45	$10.30	$10.25	$10.03	$10.54	$11.02	$10.15
1175	Laborer, Utility	$11.80	$11.53	$12.70	$12.17	$11.81	$12.27	$12.11	$11.33	$12.32	$11.80	$11.53	$11.23	$11.50	$11.95	$11.73	$12.37
1346	Loader/Backhoe Operator	$14.18	$12.77	$12.97	$15.68		$14.12			$15.18	$13.58	$12.87		$13.21	$14.13	$14.29	

CLASS. #	CLASSIFICATION DESCRIPTION	ZONE TX07 1/4/13	ZONE TX08 1/4/13	ZONE TX11 1/4/13	ZONE TX12 1/4/13	ZONE TX14 1/4/13	ZONE TX16 1/4/13	ZONE TX18 1/4/13	ZONE TX34 1/4/13	ZONE TX35 1/4/13	ZONE TX37 1/4/13	ZONE TX38 1/4/13	ZONE TX40 1/4/13	ZONE TX41 1/4/13	ZONE TX54 1/4/13	ZONE TX56 1/4/13	ZONE TX63 1/4/13
1187	Mechanic	$20.14	$15.47	$17.47			$17.10			$17.68	$18.94	$18.58		$16.61	$18.46	$16.96	
1380	Milling Machine Operator	$15.54	$14.64	$12.22			$14.18			$14.32	$14.35	$12.86			$14.75	$13.53	
1390	Motor Grader Operator, Fine Grade	$17.49	$16.52	$16.88			$18.51	$16.69	$16.13	$17.19	$18.35	$17.07	$17.74	$17.47	$17.08	$15.69	$20.01
1393	Motor Grader Operator, Rough	$16.15	$14.62	$15.83		$17.07	$14.63	$18.50		$16.02	$16.44	$15.12		$14.47	$17.39	$14.23	$15.53
1413	Off Road Hauler			$10.08			$11.88			$12.25		$12.23			$13.00	$14.60	
1196	Painter, Structures						$18.34						$21.29			$18.62	
1396	Pavement Marking Machine Operator	$16.42		$13.10			$19.17	$12.01		$13.63	$14.60	$13.17		$16.65	$10.54	$11.18	
1443	Percussion or Rotary Drill Operator																
1202	Piledriver															$14.95	
1205	Pipelayer		$11.87	$14.64			$12.79		$11.37	$13.24	$12.66	$13.24	$11.17	$11.67		$12.12	
1384	Reclaimer/Pulverizer Operator	$12.85					$12.88			$11.01		$10.46					
1500	Reinforcing Steel Worker	$13.50	$14.07	$17.53			$14.00			$16.18	$12.74	$15.83		$17.10		$15.15	
1402	Roller Operator, Asphalt	$10.95		$11.96			$12.78	$11.61		$13.08	$12.36	$11.68			$11.71	$11.95	$11.50
1405	Roller Operator, Other	$10.36		$10.44			$10.50	$11.64		$11.51	$10.59	$10.30		$12.04	$12.85	$11.57	
1411	Scraper Operator	$10.61	$11.07	$10.85			$12.27		$11.12	$12.96	$11.88	$12.43		$11.22	$13.95	$13.47	
1417	Self-Propelled Hammer Operator																
1194	Servicer	$13.98	$12.34	$14.11			$14.51	$15.56	$13.44	$14.58	$14.31	$13.83		$12.43	$13.72	$13.97	
1513	Sign Erector																
1708	Slurry Seal or Micro-Surfacing Machine Operator																
1341	Small Slipform Machine Operator									$15.96							
1515	Spreader Box Operator	$12.60		$13.12			$14.04			$14.73	$13.84	$13.68		$13.45	$11.83	$13.58	
1705	Structural Steel Welder															$12.85	
1509	Structural Steel Worker						$19.29									$14.39	
1339	Subgrade Trimmer																
1143	Telecommunication Technician																
1145	Traffic Signal/Light Pole Worker						$16.00										
1440	Trenching Machine Operator, Heavy						$18.48										
1437	Trenching Machine Operator, Light																
1609	Truck Driver Lowboy-Float	$14.46	$13.63	$13.41	$15.00	$15.93	$15.66			$16.24	$16.39	$14.30	$16.62	$15.63	$14.28	$16.03	
1612	Truck Driver Transit-Mix									$14.14							
1600	Truck Driver, Single Axle	$12.74	$10.82	$10.75			$11.79	$13.53	$13.16	$12.31	$13.40	$10.30	$11.61		$11.97	$11.46	
1606	Truck Driver, Single or Tandem Axle Dump Truck	$11.33	$14.53	$11.95			$11.68		$14.06	$12.62	$11.45	$12.28		$13.08	$11.68	$11.48	$11.10
1607	Truck Driver, Tandem Axle Tractor with Semi Trailer	$12.49	$12.12	$12.50			$12.81	$13.16		$12.86	$16.22	$12.50			$13.80	$12.27	
1441	Tunneling Machine Operator, Heavy																
1442	Tunneling Machine Operator, Light																
1706	Welder		$14.02				$15.97		$13.74	$14.84					$13.78		
1520	Work Zone Barricade Servicer	$10.30	$12.88	$11.46	$11.70		$11.85	$10.77		$11.68	$12.20	$11.22	$11.51	$12.96	$10.54	$11.67	

Notes:

Any worker employed on this project shall be paid at the rate of one and one half (1-1/2) times the regular rate for every hour worked in excess of forty (40) hours per week.

The titles and descriptions for the classifications listed here are further detailed in the AGC of Texas' *Standard Job Classifications and Descriptions for Highway, Heavy, Utilities, and Industrial Construction in Texas* . AGC will make it available on its Web site for any contractor.

CITY OF SAN ANTONIO

025 UNIT PRICING FORM

PROJECT NAME: HOUSTON STREET

PROJECT NO.

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
				TxDOT 2004 STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES					
	100	2002		PREPARING ROW	STA	42.85			
	104	2009		REMOVING CONC (RIPRAP)	SY	820.00			
	104	2015		REMOVING CONC (SIDEWALK)	SY	998.00			
	104	2017		REMOVING CONC (DRIVEWAYS)	SY	1,075.00			
	104	2021		REMOVING CONC (CURB)	LF	2,098.00			
	104	2024		REMOVING CONC (RETAINING WALLS)	SY	44.00			
	110	2001		EXCAVATION (ROADWAY)	CY	6,958.00			
	132	2004		EMBANKMENT (FINAL)(DES CONT)(TY B)	CY	25,615.00			
	160	2003		FURNISHING AND PLACING TOPSOIL (4")	SY	8,856.00			
	162	2002		BLOCK SODDING	SY	19,956.00			
	164	2005		BROADCAST SEED (PERM)(URBAN)(SANDY)	SY	12,778.00			
	168	2001		VEGETATIVE WATERING	MG	510.50			
	169	2006		SOIL RETENTION BLANKETS (CL 2) (TY F)	SY	12,778.00			
	260	2002		LIME (HYDRATED LIME)(SLURRY)	TON	354.80			
	260	2006		LIME TRT (EXST MATL)(6")	SY	25,342.00			
	340	2011		D-GR HMA (METH) TY-B PG64-22	TON	12,551.00			
	340	2034		D-GR HMA (METH) TY-C PG64-22	TON	4,087.00			
	340	2104		D-GR HMA (METH) TY-D SAC-B PG64-22	TON	2,618.00			
	354	2029		PLANE ASPH CONC PAV (0" TO 6")	SY	22,478.00			
	360	2003		CONC PVMT (CONT REINF - CRCP)(10")	SY	535.00			
	400	2001		STRUCT EXCAV	CY	15,292.00			
	402	2001		TRENCH EXCAVATION PROTECTION	LF	4,236.14			
	403	2001		TEMPORARY SPL SHORING	SF	9,000.00			
	416	2002		DRILLED SHAFT (24 IN)	LF	861.00			
	416	2003		DRILLED SHAFT (30 IN)	LF	1,938.00			
	416	2034		DRILL SHAFT(TRF SIG POLE)(48 IN)	LF	136.00			
	420	2001		CL A CONC (MISC)	CY	10.80			

	420	2003		CL C CONC (ABUT)	CY	39.20			
	420	2004		CL C CONC (BENT)	CY	332.70			
	420	2029		CL S CONC (SLAB)	CY	376.00			
	420	2033		CL S CONC (APPR SLAB)	CY	102.00			
	420	2034		CL S CONC (BRIDGE SDWLK)	CY	108.50			
	420	2053		CL S CONC (MEDIAN)	CY	637.00			
	423	2001		RETAINING WALL (MSE)	SF	22,455.00			
	425	2016		PRESTR CONC SLAB BEAM (4SB15)	LF	1,956.18			
	425	2017		PRESTR CONC SLAB BEAM (5SB15)	LF	2,608.24			
	432	2001		RIPRAP (CONC) (4 IN)	CY	4.62			
	432	2002		RIPRAP (CONC) (5 IN)	CY	15.2			
	432	2035		RIPRAP (CONC)(6 IN)	CY	60.00			
	432	2039		RIPRAP (MOW STRIP) (4 IN)	CY	65.30			
	432	2045		RIPRAP (STONE TYPE R)(DRY)(24 IN)	CY	912.00			
	432	2074		RIPRAP (CONC)(8 IN)	CY	20.00			
	432	9999		RIPRAP (CONC)(12 IN)	CY	36.00			
	442	2048		STRUCTURAL STEEL (MISC NON - BRIDGE)	LB	588.00			
	450	2018		RAIL (TY C411)	LF	2,116.00			
	450	9999		RAIL (TY C411)(MODIFIED)	LF	330.00			
	450	2025		RAIL (TY PR1)	LF	819.00			
	454	2005		ARMOR JOINT (WITH SEAL)	LF	211.60			
	460	2004		CMP (GAL STL 24")	LF	140.00			
	460	9999		CMP 18", 16 GA (DROP LATERAL)	LF	27.24			
	462	2002		CONC BOX CULV (3 FT X 3 FT)	LF	6.09			
	462	2012		CONC BOX CULV (6 FT X 5 FT)	LF	410.79			
	462	2016		CONC BOX CULV (7 FT X 5 FT)	LF	789.95			
	462	2017		CONC BOX CULV (7 FT X 6 FT)	LF	227.67			
	462	2018		CONC BOX CULV (7 FT X 7 FT)	LF	813.66			
	464	2001		RC PIPE (CL III) (12 IN)	LF	15.73			
	464	2002		RC PIPE (CL III) (15 IN)	LF	16.00			
	464	2003		RC PIPE (CL III) (18 IN)	LF	444.67			
	464	2005		RC PIPE (CL III) (24 IN)	LF	265.17			
	464	2007		RC PIPE (CL III) (30 IN)	LF	324.03			
	464	2009		RC PIPE (CL III) (36 IN)	LF	188.10			
	464	2010		RC PIPE (CL III) (42 IN)	LF	109.42			

	464	2011		RC PIPE (CL III) (48 IN)	LF	243.01			
	464	2021		RC PIPE (CL IV) (18 IN)	LF	77.28			
	464	2022		RC PIPE (CL IV) (24 IN)	LF	347.85			
	464	2038		RC PIPE (CL V) (30 IN)	LF	34.00			
	465	2154		INLET (COMPL)(TY C) (5 FT)	EA	6.00			
	465	2155		INLET (COMPL)(TY C) (10 FT)	EA	12.00			
	465	9999		INLET (COMPL)(TY H) W/ GRATE (4.0'X4.0')(MODIFIED)	EA	1.00			
	465	9998		INLET (COMPL)(TY H) W/ LID (3.5'X3.5')(MODIFIED)	EA	4.00			
	465	9997		INLET (COMPL)(TY H) W/ LID (4.0'X4.0')(MODIFIED)	EA	3.00			
	465	9996		INLET (COMPL)(TY H) W/ LID (5.0'X5.0')(MODIFIED)	EA	1.00			
	465	9995		INLET (COMPL)(TY H) W/ LID (6.0'X6.0')(MODIFIED)	EA	1.00			
	465	9994		TxDOT TRAFFIC GRATE TYPE 5 (MODIFIED)	EA	3.00			
	465	9993		MANH RISER (COMPL)	EA	1.00			
	465	2092		MANH (COMPL) (TY 1)	EA	1.00			
	465	2193		MANH (COMPL) (TY 2)	EA	8.00			
	465	9992		MANH (COMPL) (TY 5)	EA	1.00			
	465	9991		MANH (COMPL) (TY 5)(MODIFIED)	EA	1.00			
	467	9999		SET (TY II) (18 IN) (RCP) (9.8: 1) (P)	EA	1.00			
	467	9998		SET (TY II) (18 IN) (RCP) (10.7: 1) (P)	EA	1.00			
	496	2001		REMOV STR (BOX CULVERT)	EA	4.00			
	496	2010		REMOV STR (BRIDGE 100 - 499 FT LENGTH)	EA	1.00			
	500	2001		MOBILIZATION	LS	1.00			
	502	2001		BARRICADES, SIGNS, AND TRAFFIC HANDLING	MO	24.00			
	506	2001		ROCK FILTER DAMS (INSTALL)(TY 1)	LF	335.00			
	506	2003		ROCK FILTER DAMS (INSTALL)(TY 3)	LF	70.00			
	506	2009		ROCK FILTER DAMS (REMOVE)	LF	405.00			
	506	2016		CONSTRUCTION EXITS (INSTALL)(TY 1)	SY	320.00			
	506	2019		CONSTRUCTION EXITS (REMOVE)	SY	320.00			
	506	2034		TEMPORARY SEDIMENT CONTROL FENCE	LF	4,326.00			
	506	2040		TEMPORARY SEDIMENT CONTROL FENCE (REMOVE)	LF	4,326.00			
	508	2002		CONSTRUCTING DETOURS	SY	1,375.00			
	512	2008		PORT CTB (FUR & INST)(LOW PROF)(TY 1)	LF	3,550.00			
	512	2026		PORT CTB (MOVE)(LOW PROF)(TY 1)	LF	9,460.00			
	512	2044		PORT CTB (REMOVE)(LOW PROF)(TY 1)	LF	3,550.00			
	529	2009		CONC CURB (SPECIAL)	LF	7,989.00			

	529	2016		CONC CURB TYP "F1"	LF	64.00			
	529	2026		CONC CURB (ARMOR CURB SLOT)	LF	28.00			
	529	2061		CONC CURB TYPE "C1"	LF	158.00			
	529	2071		CONC CURB (SLOTTED)	LF	40.00			
	530	2010		DRIVEWAYS (CONC)	SY	2,155.00			
	530	2011		DRIVEWAYS (ACP)	SY	1,052.00			
	531	2006		CURB RAMPS (TY 2)	EA	9.00			
	531	2031		CONC SIDEWALKS (4 IN)	SY	4,003.00			
	531	9999		CONC SIDEWALK (BRIDGE) (6') (4 IN)	LF	14.00			
	531	2041		CURB RAMPS (TY 10)	EA	4.00			
	542	2001		REMOVING METAL BEAM GUARD FENCE	LF	1,537.00			
	542	2002		REMOVING TERMINAL ANCHOR SECTIONS	EA	2.00			
	544	2001		GUARDRAIL END TREATMENT (INSTALL)	EA	1.00			
	545	2049		CRASH CUSH ATTEN (INSTL)(WORK ZONE)	EA	29.00			
	545	2050		CRASH CUSH ATTEN (MOVE & RESET)(WORK ZONE)	EA	63.00			
	545	2051		CRASH CUSH ATTEN (REMOVE)(WORK ZONE)	EA	12.00			
	550	2037		CHAIN LINK FENCE (INSTALL)(6')BARB TOP	LF	347.00			
	550	2003		CHAIN LINK FENCE (REMOVE)	LF	398.00			
	550	XXXX		GATE (INSTALL)(SINGLE)(BARB TOP)(6'X6')	EA	1.00			
	618	2018		CONDT(PVC)(SCHD 40)(2")	LF	2,475.00			
	618	2019		CONDT(PVC)(SCHD 40)(2")(BORE)	LF	810.00			
	618	2022		CONDT(PVC)(SCHD 40)(3")	LF	50.00			
	618	2023		CONDT(PVC)(SCHD 40)(3")(BORE)	LF	250.00			
	618	2024		CONDT(PVC)(SCHD 40)(4")	LF	30.00			
	618	2038		CONDT (PVC)(SCHD 80)(3 IN)	LF	750.00			
	618	2052		CONDT (RM)(2 IN)	LF	60.00			
	618	2056		CONDT (RM)(3 IN)	LF	30.00			
	620	2007		ELEC CONDR (NO.4) BARE	LF	60.00			
	620	2008		ELEC CONDR (NO.4) INSULATED	LF	120.00			
	620	2009		ELEC CONDR (NO.6) BARE	LF	4,080.00			
	620	2010		ELEC CONDR (NO.6) INSULATED	LF	150.00			
	624	2004		TRAY CABLE (4 CONDR) (12 AWG)	LF	985.00			
	624	2008		GROUND BOX TY D (162922) W/APRON	EA	15.00			
	624	2014		GROUND BOX TY A (122311) W/APRON	EA	7.00			
	628	2063		ELC SRV TY D 120/240 070 (NS) SS (E) SP (O)	EA	2.00			

	636	2001		ALUMINUM SIGNS (TY A)	SF	15.00			
	644	XXXX		IN SM RD SN SUP & AM TYS80(1)WS(P)	EA	2.00			
	644	2058		RELOCATE SM RD SN SUP & AM TY S80	EA	5.00			
	644	2060		REMOVE SM RD SN SUP & AM	EA	6.00			
	662	2067		WK ZN PAV MRK REMOV (W) 4" (SLD)	LF	5,807.00			
	662	2099		WK ZN PAV MRK REMOV (Y) 4" (SLD)	LF	49,613.00			
	662	2114		WK ZN PAV MRK SHT TERM (TAB) TY Y	EA	1,042.00			
	666	2003		REFL PAV MRK TY 1 (W) 4 IN (BRK) (100 MIL)	LF	1,401.00			
	666	2036		REFL PAV MRK TY I (W) 8" (SLD) (100MIL)	LF	103.00			
	666	2048		REFL PAV MRK TY 1 (W) 24 IN (SLD) (100 MIL)	LF	702.00			
	666	2054		REFL PAV MRK TY I (W) (ARROW) (100MIL)	EA	2.00			
	666	2096		REFL PAV MRK TY I (W) (WORD) (100MIL)	EA	1.00			
	666	2105		REFL PAV MRK TY 1 (Y) 4 IN (BRK) (100 MIL)	LF	18,856.00			
	666	2111		REFL PAV MRK TY 1 (Y) 4 IN (SLD) (100 MIL)	LF	2,993.00			
	666	2132		REFL PAV MRK TY 1 (Y) 24 IN (BRK) (100 MIL)	LF	117.00			
	672	2012		REFL PAV MRKR TY I-C	EA	17.00			
	672	2015		REFL PAV MRKR TY II-A-A	EA	536.00			
	677	2003		ELIM EXT PAV MRK & MRKS (8")	LF	7,945.00			
	680	2002		INSTALL HWY TRF SIG (ISOLATED)	EA	2.00			
	682	2001		BACK PLATE (12 IN)(3 SEC)	EA	12.00			
	682	2003		BACK PLATE (12 IN)(5 SEC)	EA	2.00			
	682	2012		LOUVER (12 IN)(ADJUSTABLE)	EA	32.00			
	682	2014		PED SIG SEC (12 IN) LED (2 INDICATIONS)	EA	8.00			
	682	2022		VEH SIG SEC (12 IN) LED (GRN ARW)	EA	2.00			
	682	2023		VEH SIG SEC (12 IN) LED (GRN)	EA	14.00			
	682	2024		VEH SIG SEC (12 IN) LED (YEL ARW)	EA	2.00			
	682	2025		VEH SIG SEC (12 IN) LED (YEL)	EA	14.00			
	682	2027		VEH SIG SEC (12 IN) LED (RED)	EA	14.00			
	682	2028		BACK PLATE (12 IN)(1 SEC)	EA	16.00			
	682	9999		CHANGEABLE TRAFFIC SIGNAL SECTION	EA	16.00			
	684	2009		TRF SIG CBL (TY A)(12 AWG)(4 CONDR)	LF	970.00			
	684	2029		TRF SIG CBL (TY A)(14 AWG)(3 CONDR)	LF	3,261.00			
	684	2030		TRF SIG CBL (TY A)(14 AWG)(4 CONDR)	LF	560.00			
	684	2035		TRF SIG CBL (TY A)(14 AWG)(9 CONDR)	LF	4,143.00			
	686	2055		INS TRF SIG PL AM (S) 1 ARM (55')	EA	10.00			

	6007	2001		REMOVING TRAFFIC SIGNALS	EA	6.00			
	6027	2009		LCS EQUIPMENT (REPLACE LED)	EA	32.00			
	6266	2001		VIVDS PROCESSOR SYSTEM	EA	1.00			
	6266	2002		VIVDS CAMERA ASSEMBLY	EA	8.00			
	6266	2003		VIVDS SET-UP SYSTEM	EA	1.00			
	6266	2005		VIVDS COMMUNICATION CABLE (COAXIAL)	LF	2,178.00			
	8260	2001		LED COUNTDOWN PEDESTRIAN MODULE	EA	8.00			
	8835	2001		ACCESSIBLE PEDESTRIAN SIGNAL UNITS	EA	8.00			
CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION JUNE 2008									
	308.1			DRILLED SHAFTS (24")	LF	24.00			
	615.1			TRAFFIC SIGNAL CONTROLLER ASSEMBLY (TYPE 332 CABINET)	EA	5.00			
	628.1			ELECTRICAL SERVICES (PER INSTALLATION)	EA	4.00			
	633.1			BATTERY BACKUP SYSTEM	EA	1.00			
	655.1			TYPE 332 CONTROLLER FOUNDATION	EA	5.00			
	687.1			PEDESTAL POLE ASSEMBLY	EA	4.00			
	693.1			INTERNALLY LIGHTED STREET NAME SIGNS (LED/8D)	EA	4.00			
SAN ANTONIO WATER SYSTEMS (SAWS) - SPECIAL SPECIFICATION 9999 WATER MAINS AND SERVICE LINES FOR TxDOT/LAM PROJECTS									
	9999	2001		CUT AND REPLACE ASPHALT PAVEMENT - 12 INCHES COMP DEPTH	SY	400.00			
	9999	2002		TRENCH EXCAVATION SAFETY PROTECTION	LF	884.00			
	9999	2003		6" PVC (C-900) WATER MAIN INSTALLATION	LF	42.00			
	9999	2004		8" PVC (C-900) WATER MAIN INSTALLATION	LF	786.00			
	9999	2005		12" PVC (C-900) WATER MAIN INSTALLATION	LF	56.00			
	9999	2006		RELAY 1 1/2" SHORT SERVICE ON NEW MAIN	EA	1.00			
	9999	2007		RELAY 1 1/2" LONG SERVICE ON EXISTING MAIN	EA	1.00			
	9999	2008		VALVE BOX ADJUSTMENT	EA	15.00			
	9999	2009		6" GATE VALVE	EA	2.00			
	9999	2010		8" GATE VALVE	EA	6.00			
	9999	2011		RELOCATE METER AND METER BOX	EA	1.00			
	9999	2012		FIRE HYDRANT	EA	3.00			
	9999	2013		RELOCATE FIRE HYDRANT	EA	2.00			
	9999	2014		PIPE FITTINGS, ALL SIZES AND TYPES	TON	2.16			
	9999	2015		6" WATER TIE-IN	EA	2.00			

	9999	2016		8" WATER TIE-IN	EA	8.00			
	9999	2017		12" WATER TIE-IN	EA	2.00			
	9999	2018		HYDROSTATIC PRESSURE TEST	EA	4.00			
	9999	2019		2" BLOWOFF, TEMPORARY	EA	8.00			
	9999	2020		ADJUSTING EXISTING AIR RELEASE VAULTS TO GRADE	EA	2.00			
	9999	2025		REMOVAL, TRANSPORTATION AND DISPOSAL OF AC PIPE	LS	1.00			
	9999	2026		ASBESTOS ABATEMENT WORK PLAN	LS	1.00			
SAN ANTONIO WATER SYSTEMS (SAWS) - SPECIAL SPECIFICATION 9998 SANITARY SEWER FOR TxDOT/LAM PROJECTS									
	9998	2001		SANITARY SEWERS - CONCRETE DRIVEWAY - COMMERCIAL	SY	356.00			
	9998	2002		SANITARY SEWERS - CUT AND RESTORE PAVEMENT - 12" COMP DEPTH	SY	911.00			
	9998	2003		TRENCH EXCAVATION SAFETY PROTECTION	LF	1,285.77			
	9998	2004		8" PVC GRAVITY SAN SWR (6'-10')	LF	191.29			
	9998	2005		8" PVC GRAVITY SAN SWR (10'-14')(PRESSURE PIPE)	LF	16.50			
	9998	2006		8" PVC GRAVITY SAN SWR (10'-14')	LF	22.50			
	9998	2007		8" PVC GRAVITY SAN SWR (14'-18')(PRESSURE PIPE)	LF	103.00			
	9998	2008		8" PVC GRAVITY SAN SWR (14'-18')	LF	312.44			
	9998	2009		8" PVC GRAVITY SAN SWR (18'-22')(PRESSURE PIPE)	LF	62.58			
	9998	2010		8" PVC GRAVITY SAN SWR (18'-22')	LF	89.90			
	9998	2011		10" PVC GRAVITY SAN SWR (18'-22')	LF	377.56			
	9998	2012		10" PVC GRAVITY SAN SWR (22'-26')	LF	110.00			
	9998	2013		ADJUST EXISTING MANHOLES	EA	2.00			
	9998	2014		SANITARY SEWER MANHOLES	EA	7.00			
	9998	2015		SANITARY SEWER DROP MANHOLES	EA	1.00			
	9998	2016		EXTRA DEPTH MANHOLES (>6')	VF	73.76			
	9998	2017		SANITARY SEWER, HOUSE LATERAL (6")	LF	55.00			
	9998	2018		SANITARY SEWER, HOUSE LATERAL (ONE-WAY CLEANOUTS)	EA	2.00			
	9998	2019		CONCRETE ENCASEMENT, CRADLES, SADDLES & COLLARS	CY	4.32			
	9998	2020		ABANDONMENT OF SANITARY SEWER MAIN AND MANHOLES	LF	333.50			
	9998	2021		BYPASS PUMPING	LS	1.00			
	9998	2022		PRE-TELEVISION INSPECTION SEWER MAIN (8"-15")	LF	1,155.98			
	9998	2023		POST-TELEVISION INSPECTION SEWER MAIN (8"-15")	LF	1,285.77			

SPECIAL SPECIFICATION 9997
CPS ENERGY (CPS)
SPECIFICATIONS FOR CONSTRUCTION OF
NATURAL GAS DISTRIBUTION FACILITIES

	9997	2001		GAS SHORT SERVICE OFF NEW MAIN (1/2" - 4")(MAIN TO 1' INSIDE PROPERTY)	EA	2.00			
	9997	2002		GAS LONG SERVICE (1/2" - 4")(MAIN TO 1' INSIDE PROPERTY)	EA	2.00			
	9997	2003		GAS SHORT SERVICE OFF NEW MAIN (1/2" - 4")(MAIN TO METER)	EA	1.00			
	9997	2004		INSTALL GAS MAIN OR CASING 4" PLASTIC PIPE W/ TRACER WIRE	LF	480.00			
	9997	2005		INSTALL GAS MAIN OR CASING 16" STEEL	LF	1,708.00			
	9997	2006		INSTALL GAS MAIN JOINT TRENCH 4" PLASTIC PIPE W/ TRACER WIRE & 16" STEEL	LF	1,301.00			
	9997	2007		INSTALL GAS MAIN (DIRECTIONAL DRILLING) 16" STEEL	LF	911.00			
	9997	2008		STREET RESTORATION ADJUSTMENT (WHEN REQUIRED) - FLOWABLE FILL	CY	170.00			
	9997	2009		STREET RESTORATION ADJUSTMENT (WHEN REQUIRED) - ASPHALT	SY	740.00			

TOTAL TxDOT & COSA ITEMS _____

TOTAL SAWS WATER ITEMS _____

TOTAL SAWS SANITARY SEWER ITEMS _____

TOTAL CPS GAS ITEMS _____

GRAND TOTAL _____

Project Number:

County: BEXAR **Control:** 0915-12-481

Highway: HOUSTON STREET

**********GENERAL NOTES**********

2004 Specification Book (Revised December 21, 2009)

========== **Basis of Estimate** ==========

Item	Description	Rate/Area	Quant-Tons
260	Lime_____	28 LBS/SY (6%/105 LBS/CF)	___355___

========== **Asphalt Concrete Pavement** ==========

Type	Location	Depth	Rate/Area	Quant-Tons
_B_	Main Rdwy	_9”_	990 lbs/ __1__sy	12,551
_C_	Main Rdwy	_3”_	330 lbs/ __1 _sy	4,087
_D_	Main Rdwy	_2”_	220 lbs/ __1__sy	2,618

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-----See Bid Item-----

The following State, District, Local and/or Utility Standards have been modified: SIDEWALK BRIDGE @ ARMOR CURB SLOT (MOD), IL-H-G (MOD), IL-H-L (MOD), TRAFFIC GRATE TYPE 5 (MOD), COMBINATION RAIL TYPE 411 (MOD).

Manholes and Valves:

Locate and reference with station and offset all manholes and valves within the construction area. Each manhole and valve shall be identified by its owner (SAWS, CPS, etc.). No roadwork will begin until this list has been submitted. Gas valves have to be accessible at all times, therefore; temp. CTB, material stock piles, etc. cannot be placed over these valves.

Construct all manholes and valves to final pavement elevations prior to the final mat of ACP. If, between the final elevation adjustment and the final mat of ACP, the manholes and valves are going to be exposed to traffic, place temporary asphalt around the manhole and valve to provide a +/- 50:1 taper. The cost of elevation adjustment will be part of the manhole and valve work, and asphalt tapers are part of the ACP work.

Steel Wrapped or Asbestos Utility Lines:

Existing steel wrapped natural gas and/or asbestos cement (AC) water lines that will no longer be in service are usually abandoned in place (AIP). However, if any of these lines have to be removed for whatever reason (in the way of other construction, to make tie-ins, etc.) comply with

all federal, state and local laws, ordinances and regulations regarding the management of these materials. At a minimum:

1. Contact the Engineer.

2. Remove the minimum amount of pipe needed to perform the proposed work.

3. Cover and secure the ends of the pipe with a double layer of 6 mil plastic. If the pipe is damaged, cover the entire pipe.

4. Move the pipe to an approved temporary site within the project.

5. The Engineer will determine the owner (utility company) of the pipe and will coordinate removal from the project. The contractor will load the pipe onto the removal vehicles but will NOT be responsible for removing the pipe from the project.

6. Removal of the pipe from the trench is subsidiary to the work that created the need for the removal (excavation for structures, roadway, a new line, tie-ins, etc.). The work performed in handling the pipe after it has been removed from the trench (covering with plastic, hauling to the temporary site and later loading on to the disposal vehicles will be paid for through the Force Account procedure.

Contact the Engineer or the City when construction operations are within 400 feet of a signalized intersection to determine/verify the location of loop detectors, conduit, ground-boxes, etc. Repair or replace any signal equipment damaged by construction operations. The method of repair or replacement shall be pre-approved and inspected. Depending on the type and extent of the damage, the Engineer reserves the right to perform the repair or replacement work and the Contractor will be billed for this work.

Remove existing raised pavement markings as the work progresses or as approved. This work is subsidiary to the various bid items. Properly dispose materials removed.

To better fit field conditions, the cross sections may be varied when approved.

If there are waste areas or material source areas, follow the Texas Aggregate Quarry and Pit Safety Act requirements.

Any materials removed and not reused and determined to be salvageable shall be stored within the project limits at an approved location or delivered undamaged to the storage yard as directed. Properly dispose unsalvageable materials in accordance with local, state, and federal regulations. Deface traffic signs so that they will not reappear in public as signs.

Any sign panels that are adjusted or removed and replaced, shall be done the same workday unless otherwise approved.

Notify the Engineer at least two weeks prior to a proposed traffic pattern change(s) that will require a revision to traffic signals.

Contractor will be responsible for any charges to having OHE de-energized for construction of new bridge.

--Item 5--
Taper ACP placed at curb inlets, traffic inlets and slotted drains.

Prior to letting, bidders may obtain a free computer diskette or a computerized transfer of files (from the Engineer's office) that contains the earthwork information. If copies of the cross-sections in addition to, or instead of, the CD are requested, they will be available at the Engineer's office for borrowing by copying companies at the bidder's expense.

When working near aerial electrical lines or utility poles, comply with Federal, State and local regulations. For electrical lines and poles shown in the plans, if the lines need to be de-energized or if poles need to be braced, contact the electrical company. Work pertaining to de-energizing lines, bracing poles and other protective measures will not be paid by TxDOT.

--Item 6--
Show the stockpile lot and/or sub lot numbers on all tickets for all materials.

--Item 7--
The project's total disturbed area is 5.48 Acres. The disturbed area in all project locations and Contractor project specific locations (PSL's), within 1 mile of the project limits, will further establish the authorization requirements for storm water discharges. The department will obtain an authorization to discharge storm water from the Texas Commission on Environmental Quality (TCEQ) for the construction activities shown on the plans. Obtain any required authorization from the TCEQ for any PSL's on or off the ROW. When the total area disturbed on the project and PSL's within 1 mile of the project exceeds 5 acres, provide a copy of the Contractor NOI for PSL's to the Engineer (to the appropriate MS4 operator when the project is on an off-state system route).

--Item 8--
Working days will be computed and charged in accordance with Article 8.3.A.4, "Standard Workweek".

Standard Workweek: Working days will be charged Monday through Friday, excluding national or state holidays, if weather or other conditions permit the performance of the principal unit of work underway, as determined by the Engineer, for a continuous period of at least 7 hr. between

7:00 A.M. and 6:00 P.M., unless otherwise shown in the Contract. The Contractor has the option of working on Saturdays or state holidays. Provide sufficient advance notice to the Engineer when scheduling work on Saturdays. Work on Sundays and national holidays will not be permitted without written permission of the Engineer. If work requiring an Inspector to be present is performed on a Saturday, Sunday, or holiday, and weather or other conditions permit the performance of work for 7 hr. between 7:00 A.M. and 6:00 P.M., a working day will be charged.

--Item 9--
When approved, provide uniformed, off-duty law enforcement officers with marked vehicles during work that requires a lane closure. The officer in marked vehicles shall be located as approved to monitor or direct traffic during the closure. The method used to direct traffic at signalized intersections shall be as approved. Additional officers and vehicles may be provided when approved or directed.

--Item 100--
Begin clearing operations after trees and other areas of vegetation to be protected have been identified and approved. Install fencing around features to be protected as shown in the plans or directed. Coordinate all right of way clearing operations with the SW3P.

Trim and remove brush and trees as needed for construction operations. Obtain approval for proposed method of tree and brush trimming and removal. Vertical flailing equipment is not allowed. Treat damaged or cut branches, roots and/or stumps of all oak trees with a commercial tree wound dressing. Disinfect all pruning tools with a solution of 70% alcohol before moving from one tree to another. Unless otherwise approved remove all resulting vegetative debris from the ROW within 24 hours. The Engineer can stop all construction operations if the dressing, cut and removal requirements are not followed.

--Item 110--
Where excavation extends beyond a right of way fence, remove and replace the fence to a comparable condition.

--Item 162--
Furnish and place Common Bermuda grass sod.

--Item 166--
Use a fertilizer with an analysis of 13-13-13 (50% of the total N must be sulfur coated urea) to apply 60 lbs of actual N per acre. This requires 460 lbs of 13-13-13 per acre or .095 lbs per SY of area.

--Item 168--
Apply vegetative watering as needed to supplement natural rainfall during the vegetation establishment period. Plan quantity of irrigation water is based on the application of a total of

1.3 gal of water each week for each sq. yd. of area that is sodded or seeded. Establishment time is estimated to be 12 weeks for both sod and permanent seed mixes. Temporary seeding will require less time for establishment. Provide a schedule and coordinate watering cycles and rates per cycle with the Engineer. Obtain approval if the quantity of water to be applied is expected to exceed the plan quantity. Adjust the amount of water applied with each cycle and the number of cycles each wk. according to actual site conditions. Drought or other conditions, as determined by the Engineer, may require the application of supplemental irrigation during hours other than normal working hours.

--Item 260 & 263--
Lime trucks may be randomly selected to be re-weighed at public scales. If the weight of the trucks varies by more than 2%, payment will be as determined by the public scales.

--Item 300--
The asphalt binder used in the manufacture of all types of hot mix asphalt concrete, shall be PG 64-22.

--Item 320--
Construct all longitudinal ACP joints adjacent to a travel lane with a joint maker device that will create a 3:1 to 6:1 taper. For placement of 2 inches or more, the device shall provide a maximum ½ inch vertical edge. Taper outside edges (next to the grass) or backfill (shoulder-up) the same day.

Use a material transfer device capable of transferring mix from the haul truck to the paver. Material transfer devices can include a pick up machine, such as a Lincoln 660 or similar.

--Item 340, 344 or 3224--
Table 6, in Item 340, Table 8 in Item 344 and Table 10 in Item 3224, Hamburg Wheel Test Requirements tested in accordance with Tex-242-F are changed for PG 64-22 or lower and PG 70-22. Minimum number of passes at 0.5” Rut Depth, Tested at 122 degrees F will be 5,000 and 10,000 respectively.

Design all mixture types using a target laboratory-molded density of 96.5%.

The asphalt plant shall have truck scales as defined in Item 520. Give three weight tickets bearing the date, the truck number, the gross, net & tare weights to the truck driver for the State inspector at the spreading and finishing operation. Trucks may be required to weigh on public scales or portable platform scales to verify the weight of the ticket.

Submit a copy of the Tex 233-F production charts on a weekly basis. At the end of the ACP work, provide all originals.

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Crushing of aggregate for hot mix and immediate use for production of the mix is not allowed. Stockpile the aggregate until enough material is available for five days of production unless prior approval is provided. Hold a pre-placement meeting one month prior to the placement of the hot mix.

The main purpose of hot mix cores taken by the State are for payment calculations. If (for quality control purposes) the core information is needed sooner, take additional cores.

Do not use diesel or solvents as asphalt release agents in production, transportation, or construction. A list of approved asphalt release agents is available from the District Laboratory.

No more than one hot mix lot will be open for any specific type of hot mix, unless authorized. After a lot is open and the Contractor gets approval to change plants, the previous lot will be closed and a new lot will be opened. The numbering for the lots produced at the new plant will start with No. 1. If allowed to switch back to the original or previous plant, the next lot from that plant will resume numbering sequentially from the last lot produced by that plant.

Schedule lay-down placement where uneven travel lanes are minimized and eliminated weekly.

Minimum Roadway Placement Temperature
--Item 340, 342, 344, 346, 3127 & 3142--
Place mixture when the roadway surface temperature is equal to or higher than listed in Table 1 unless otherwise approved or shown on the plans. Measure the roadway surface temperature with a handheld infrared thermometer. Placement may be allowed to begin prior to the roadway surface reaching the required temperature if conditions are such that the roadway surface will reach the required temperature within 2 hrs. of beginning placement operations. Place mixtures only when weather and moisture conditions of the roadway surface are suitable in the opinion of the Engineer.

Table 1
Minimum Pavement Surface Temperatures

		Minimum Pavement Surface Temperatures in Degrees Fahrenheit *	
Specification Item Number	High Temperature Binder Grade	Subsurface Layers or Night Paving Operations	Surface Layers Placed in Daylight Operations
Items 340 & 344	PG 64	45	50
	PG 70	55	60

	PG 76	60	60
Items 342 and 346 SS 3127 & SS 3142	PG 76	65	70
	Asphalt Rubber (A-R)	65	70

* Except for PG 64, may pave at temperatures 10º F lower than the values shown in Table 1when utilizing a paving process or equipment that eliminates thermal segregation. In these cases, use either an infrared bar attached to the paver, or a hand held thermal camera, or a hand held infrared thermometer operated in accordance with Text Method 244-F to demonstrate that the uncompacted mat has no more than 10º F of thermal segregation.

--Item 354--
Planed material shall be delivered and stockpiled at locations established by the City of San Antonio.

--Item 401--
A shrinkage compensator is not required for when used for backfilling pipes. Strength of the Flowable Backfill will be verified by the District Laboratory. Field testing is not required, unless deemed necessary.

--Item 420--
Mass concrete will be measured in place.

Sawcut grooves are not required.

--Item 421--
Use an automated ticket that contains the same information as TxDOT's ticket. Submit the ticket for approval prior to use. The concrete producer will contact the District Laboratory or the Engineer's Office (outside the San Antonio area) to inform TxDOT of scheduled structural concrete batching. Structural concrete includes bridge drill shafts, columns, caps, abutments, deck or top slabs of direct traffic culverts.

Entrained air is required in all slip formed concrete (bridge rail, concrete traffic barrier, pavement, etc.), but is not required for other structural concrete. Adjust the dosage of air entraining agent for low air content as directed or allowed by the Engineer. If entrained air is provided where not required, only the upper limits of the Special Provision will be enforced.

--Item 423--
The backfill material for pre cast retaining walls shall be approved before placement. Build stockpile(s) in lifts not to exceed 2 feet and a minimum working face of not less than 10 feet, but not more than 20 feet.

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RAP will not be allowed as the backfill material for MSE retaining walls.

Use the approved Mechanically Stabilized Earth (MSE) wall systems listed at:
http://www.dot.state.tx.us/business/contractors_consultants/bridge/retaining_wall.htm

--Item 432--
In all riprap slopes, provide 3 inch diameter weep holes at 10 foot maximum spacing and backed with loose graded gravel or crushed stone and galvanized hardware cloth.

In areas where guard fence posts are to be placed in riprap, the riprap shall have an 18 inch +/- blocked out area (round or square).

--Item 462--
Use concrete aggregate with two sacks of Portland cement per cubic yard for fill between pre-cast boxes.

--Item 465--
Concrete Class B invert shaping is required at all inlets, manholes and junction boxes in order to insure positive flow. The material and work performed for the placement of the inverts shall be considered subsidiary to this item.

--Item 500--
"Materials on Hand" payments will not be considered in determining percentages for mobilization payments.

--Item 502--
Place standard markings no later than 14 days after surface treatment operations are completed.

When advanced warning flashing arrow panels and/or changeable message sign is specified, have one standby unit in good condition at the job site.

Treat the pavement drop-offs as shown in the TCP.

After written notification, the time frame to provide properly maintained signs and barricades before considered in non-compliance is 48 hours from receipt of the notification.

There are traffic signals at the intersection of Houston Street and Commerce Street. Keep the signals in operation except when necessary for specific installation operations.

Moving an existing sign to a temporary location is subsidiary to this Item. Installations with permanent supports at permanent locations will be paid for under the applicable bid item (s).

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Notify the Engineer 5 business days in advance of any temporary or permanent lane, ramp, connector, etc. closures/detours, restrictions to lane widths, alterations to vertical clearances, or modifications to radii. Any other modifications to the roadway that may adversely affect the mobility of oversized/overweight trucks also require 5 business days advance notice to the Engineer. Unless shown in the TCP, no lane, ramp, connector, etc. closures are allowed during special events. At least one lane has to remain open at all times. For all lane closures, provide written closure information by 1:00PM on the business day prior to the closure. For closures on a Monday or following a Holiday, furnish the information the workday prior to the closure. Lane closures will not be allowed if this reporting requirement is not met.

For closures not listed in the TCP; the lane closures are limited to between the hours of 9 AM to 4 PM, and at least one lane has to remain open at all times.

Avoid placing stockpiles within the roadway's horizontal clear zone. If a stockpile is placed within the clear zone, address in accordance with the TMUTCD.

Do not place barricades, signs, or any other traffic control devices where they interfere with sight distance at driveways or side streets.

In addition to providing a Contractor's Responsible Person and a phone number for emergency contact, have and employee(s) available to respond on the project for emergencies and for taking corrective measures within 2 hours or within a reasonable time frame as specified by the Engineer.

--Item 504--
Furnish one field office type B.

Enclose the field office and the parking area with a fence and provide security lighting.

--Item 529--
Class "C" concrete is required for machine extruded curb.

Curb inlets and extensions are based on an exposed curb height of 7 inches. The roadway curb height and shape will be transitioned to the inlet's curb with a 40: 1 taper.

--Item 531--
The curb ramp truncated domes will be terra cotta.

The curb ramp locations shown in the plans have taken into account the geometric features of the intersection, traffic signals, and the pavement markings. If anything changes during construction, the location of curb ramps must be adjusted to ensure they meet TAS requirements.

--Item 540--

MBGF posts shall be round with domed tops, and not painted. If 10 or less timber posts are needed, they may be purchased locally and will be accepted by visual inspection.

Guard fence posts placed in proposed and/or existing areas of riprap, sidewalks or other concrete shall have an 18 inch +/- (square or round) block out in the concrete. After the posts are installed, the blocked out area shall be topped off with 4 inches of low strength grout/mortar consisting of about 1 sack of cement per cubic yard of mix.

When connecting a Thrie-Beam to a concrete wingwall, bridge rail, CTB, etc., drill the holes for bolt placement using rotary or core type equipment. Use a core type drill when reinforcing steel is encountered. Do not use percussion or impact drilling. Repair damage to the concrete and spalls exceeding ½" from the edge of the hole.

The top height shown on SGT (7)-11 and SGT (8)-11 may be adjusted to a maximum of 28" (22" center) but not less than 27-3/4" (21-5/8" center).

--Item 542--
Salvage all undamaged/acceptable radius guardrail and deliver to the City of San Antonio maintenance yard.

--Item 585--
Ride quality requirements are waived.

--Item 618--
It might be necessary to cut concrete for placement of conduit. Saw cut existing concrete, remove the concrete from the steel reinforcement (bars or fabric) and bend the steel to install the conduit. After the conduit has been placed, bend the steel back to its original position and back-fill the trench with an approved concrete. This work is subsidiary to this Item.

The conduit depth for illumination under the City of San Antonio streets is 36 inches.

Do not use cast iron junction boxes in single slope traffic barriers.

Use materials from Material Producers list as shown on the Construction Division's (CST) web site. Category is "Roadway Illumination and Electrical Supplies."

The polymer concrete barrier box will not be paid for separately, but will be considered subsidiary to ITEM 618, "CONDUIT".

--Item 620--
For both transformer and shoe-base type illumination poles, provide double-pole breakaway fuse holder as shown on the Construction Division's (CST) materials producers list Category is

"Roadway Illumination and Electrical Supplies." Fuse holder is shown on list under Items 610 & 620.

Provide 10 amp time delay fuses.

--Item 624--
Legibly imprint the ground box cover with the words "Danger High Voltage" as required by the "Electrical Details" State Standard Sheet(s). In addition, imprint "Traffic Signal", "TMS", "Illumination", or whatever other system will be housed in the ground box. The ground box locations shown on the plans are approximate and can be adjusted to better fit field conditions when approved.

--Item 628--
Make all arrangements for electrical service, and compliance with local standards and practices for proper installations.

The contractor will install a permanent plaque in Electrical Service ITS-3 and ITS-4, as per the requirements of the latest edition of the NEC, with the following wording:

THIS ELECTRICAL SERVICE SHARES RACEWAYS WITH THE FOLLOWING SERVICES:

- **ITS – 3 STA. NO. XXX+XX POWERING DMS 1 AND CCTV 3**
- **ITS -4 STA. NO. XXX+XX POWERING RSVD 1**
- **E.S. #1 STA. NO. XXX+XX POWERING HUB BUILDING #1**

CAUTION SHOULD BE TAKEN THAT MORE THAN ONE ENERGIZED SYSTEM IS CONTAINED IN THE SHARED RACEWAYS.

The permanent plaques will be subsidiary to the Electrical Services being installed.

--Item 644--
The wedge anchor system shown on State Standard Sheet SMD (TWT)-08 are not allowed.

--Item 666 & 8251--
If TY II material is used (vs. an acrylic or epoxy) as the sealer for the TY I markings, place the TY II a minimum of 14 calendar days (to provide adequate curing) before placing the TY I markings.

--Item 672--

Place all adhesive material directly from the heated dispenser to the pavement. Do not use portable or non-heated containers. Use adhesive of sufficient thickness so that when the marker is pressed into the adhesive, 1/8" or more adhesive will remain under 100% of the marker. The adhesive should extend not less than 1/2" but not more than 1 1/2" beyond the perimeter of the marker.

--Item 677--
Obtain approval before using the mechanical method for the elimination of existing thermoplastic pavement markings.

Item 680--
Furnish and install all required materials and equipment necessary for the complete and operating contra flow (reversible lane) signal installations at the following locations:
Houston Street and Commerce Street

The locations shown on the plans for signal pole foundations, controller foundations, conduit and other items may be adjusted to better fit field conditions as approved.

High pressure sodium lamps shall meet ANSI C78 requirements and shall be the type that extinguishes at the end of usable lamp life and remains extinguished without cycling. 400 watt lamps shall contain less than 4.0 MG of mercury. 250 watt lamps shall contain less than 3.0 MG of mercury. Lamps shall be lead free. Lamps shall pass the Federal Toxic Characteristic Leachate Procedure (TCLP). Lamp examples: OSRAM-Sylvania LU400/ECO Plus.

Demonstrate that the field wiring is properly installed, install the controller assembly, connect the wiring and turn on the controller.

--Item 682--
Provide all signal heads from the same manufacturer. Pedestrian signals may be by a different manufacturer than the vehicle signal heads.

Cover all signal faces until placed in operation.

All pedestrian signal faces shall be single section LED Type. Die cast polycarbonate is acceptable in lieu of die cast aluminum. All mounting attachments shall be constructed of steel pipe and mounted as shown on the plans.

For all proposed mast arm pole assemblies, use mounting bracket assembly Option "C" as shown on the State Standard Sheet(s) "Single Mast Arm Assemblies”.

--Item 684--

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Provide an extra 10' for each cable terminating in the controller cabinet. All cables shall be continuous without splices from terminal point to terminal point. All proposed signal cable shall be #12 AWG stranded copper.

--Item 686 & 687--
Provide all signal poles from the same manufacturer. Pedestrian poles may be from a different manufacturer.

--Item 6007--
All existing signal equipment with the exception of the signal controller and equipment become the property of the Contractor and disposed of in accordance with the specifications. Deliver the controller and related equipment to the City of San Antonio Traffic Department.

--Item 8835--
The pedestrian push button shall be raised or flush and a minimum of 2 inches in the smallest dimension. The force to activate the control shall be no greater than 5 lb/f. The button placement has to be coordinated with the concrete pad to access the button. The concrete pad (if required) shall be paid separately.

The pedestrian push button shall be wired with a 2/C#14 loop detector cable in lieu of a #12 A.W.G. XHHW wire.