

ADDENDUM NO. 4

**CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES**

**PROJECT NAME:
BLANCO ROAD – FROM HILDEBRAND TO JACKSON KELLER**

DATE: February 24, 2012

ADDENDUM NO.4

This addendum should be included in and be considered part of the plans and specifications for the name of the project. The contractor shall be required to sign an acknowledgement of the receipt of this addendum and submit with their bid. Where provisions of the following supplementary data differ from those of the original Construction Documents, the Addendum shall govern and take precedence.

CIMS PROJECT NO.: 40-00004

QUESTIONS AND RESPONSE:

Attached.

SPECIFICATIONS:

Substitute and utilize the revised "025 UNIT PRICING FORM"

1. Base Bid
 - a. Revised Quantities for Item 308.1 DRILLED SHAFTS (24")
 - b. Revised Quantities for Item 309.1 PRECAST CONCRETE CULVERT (6' X 5')
 - c. Revised Quantities for Item 401.1 REINFORCED CONCRETE PIPE (30") CLASS III
 - d. Added Item 406.2 JACKING OR TUNNELING BOX CULVERT (6' X 5')
 - e. Revised Quantities for Item 413.1 FLOWABLE BACKFILL
 - f. Added Item 633.1 BATTERY BACKUP FOR TRAFFIC SIGNAL
2. Additive Alternate Bid
 - a. Revised Quantities for Item 308.1 DRILLED SHAFTS (24")
 - b. Revised Quantities for Item 308.1 DRILLED SHAFTS (30")
 - c. Revised Quantities for Item 618.1 CONDUIT (2 INCH/PVC SCHEDULE 40)
 - d. Added Item 618.2 CONDUIT (3 INCH/PVC SCHEDULE 40)
 - e. Added Item 633.1 BATTERY BACKUP FOR TRAFFIC SIGNAL



CHANGES TO PLANS:

Base Bid:

1. Revised Plan Sheet 11A
 - a. Updated items and quantities per the revised 025 UNIT PRICING FORM
2. Revised Plan Sheet 20
 - a. Corrected Quantities for Item 308.1
 - b. Added Item 633.1
3. Revised Plan Sheet 23
 - a. Corrected Quantities for Item 309.1, 413.1
 - b. Added Item 406.2
4. Revised Plan Sheet 24
 - a. Modified Note 8 of the “Traffic Notes and Special Conditions”
5. Revised Plan Sheet 207
 - a. Corrected Quantities for Item 309.1, 413.1
 - b. Added Item 406.2
 - c. Added note to require the contractor to verify location of bridge piers
6. Revised Plan Sheet 220
 - a. Revised Detail 6
7. Revised Plan Sheet 238
 - a. Corrected Quantities for Items 308.1
 - b. Added Items 633.1
8. Revised Plan Sheet 241
 - a. Corrected Quantities for Items 308.1
 - b. Added Items 633.1
9. Revised SAWS Sanitary Sewer Plan Sheet S12
 - a. Added notes specifying Existing Manholes to be Removed (NSPI)

Additive Alternate Bid:

10. Revised Plan Sheet 9A
 - a. Updated items and quantities per the revised 025 UNIT PRICING FORM
11. Revised Plan Sheet 18
 - a. Corrected Quantities for Items 308.1, 618.1
 - b. Added Items 618.2, 633.1
12. Revised Plan Sheet 22
 - a. Modified Note 8 of the “Traffic Notes and Special Conditions”
13. Revised Plan Sheet 123
 - a. Corrected Quantities for Items 308.1, 618.1
 - b. Added Items 618.2, 633.1
14. Revised Plan Sheet 126
 - a. Corrected Quantities for Items 308.1, 618.1
 - b. Added Items 618.2, 633.1

Insert the Addendum Acknowledgement Form. Submit the form signed and dated with the bid proposal package indicating receipt of the number of Addendums received.

QUESTIONS / REQUESTS ON BLANCO ROAD - HILDEBRAND TO JACKSON-KELLER

Questions / Clarifications

ROADWAY

- Message Boards are required to assist with notification of proposed detours. Will a pay item to provide for message boards be added? **Answer – The cost of Message Boards should be included in item 530.1.**
- Please indicate how “removal of existing asphalt and base” will be paid. Is the volume of these items included in the “Excavation” item quantity? **Answer – The volume of existing asphalt and base is included in item 104.1.**
- The bid item for concrete traffic barriers does not specify a type. Can low profile barriers be used? **Answer – Yes, the intent is to use Low Profile Concrete Traffic Barriers.**

TRAFFIC SIGNALS

- Can you please provide an electrical service descriptive code. I understand a pedestal support is desired, just need to know how to configure it. **Answer – The electrical service descriptive code is provided on the revised signal plans issued with Addendum #4.**
- Will a battery back up system be required? **Answer – Yes. Refer to the revised signal plans issued with Addendum #4.**
- Preemption phase detectors/cable are listed as pay items but no pay item has been provided for the phase selectors. Will a pay item for phase selectors be added? **Answer – Emergency Preemption Detector Cable will be required. Refer to the revised signal plans issued with Addendum #4.**
- Quantities for the 24” drilled shafts appear to be significantly incorrect. With pedestrian pole assemblies, only 5.7 LF of 24” drill shaft is needed per assembly (noted on sheet 254). With only 6 pedestrian poles needed for both the base bid and additive alternate, only 34.2LF would be needed and not the 159.60 LF shown. **Answer – The quantities have been corrected on the revised signal plans issued with Addendum #4.**
- Additive Alternate:
 - Plan details show installation of 3” conduit runs. Need a pay item to provide for this. **Answer – The quantities have been corrected on the revised signal plans issued with Addendum #4.**
 - Foundation quantities for the school zone mast arms need to be provided for (30” foundations, another 22.6 LF I believe) **Answer – The quantities have been corrected on the revised signal plans issued with Addendum #4.**
 - Unless I missed it, there are no plan notes regarding spare equipment yet each intersection has one additional camera than what is shown to be installed. Is this for spare equipment per intersection? **Answer – The city requires one additional camera and processor per signalized intersection be provided to CoSA as stated in Standard Specification 694.**
- Base Bid:
 - Basse Rd. Reverse problem for cameras/processors. Plan details show a total of 8 to be installed with a plan quantity of 7? Weizmann shows 5 installed with a plan quantity of 6. Overall pay item has 15 total which

probably supports 9 for Basse (8 installed plus 1 spare) and Weizmann for what is shown 6 (5 installed plus 1 spare). So am I reading this correctly – you want 4 spare cameras and processors for the project (Base and Add Alt). Please confirm. **Answer – The quantities have been corrected on the revised signal plans issued with Addendum #4 to provide one spare camera and processor per signalized intersection.**

DRAINAGE

- The plans indicate that if there is a conflict with the reinforced concrete pipe, reinforced concrete box culvert, manhole, or inlet we are to remove the item. The plans do not show the existing storm sewer. Can you add items for pipe removal, box culvert removal, manhole removal, and inlet removal? Can sheets be added to show storm sewer location? **Answer – The existing storm sewer location is shown on sheet 176 of the Base Bid. Removal of the inlets and pipe will be paid for under item 101.1. Temporary connections from the existing inlets to the proposed Storm Sewer “B” trunk line are shown on sheets 35 and 36 of the Base Bid.**
- Would it be possible to get a pay item to provide for jacking/boring the 6 x 5 box under the bridge abutment? **Answer – A pay item is provided in the revised 025 Unit Pricing Form issued with Addendum #4.**
- After the installation of all underground utilities and during the construction of the storm drainage, there appears to be a need for temporary pavement at intersections (similar to the asphalt provided at the bridge). Would you please consider additional temporary pavement quantities to be added to provide for this temporary pavement need? It further appears that the same request could be made for driveways as we pass them with the storm install in order to provide for the timing of street reconstruction. **Answer – Refer to sheet 28 in the Base Bid and sheet 26 in the Additive Alternate Bid. In addition, see note 8 of the “Traffic Notes and Special Conditions” shown on the Schedule of Traffic Control and Advanced Warning Devices and note 2 of the “Accessibility Requirements” shown on the City of San Antonio General Notes.**

ENVIRONMENTAL SPECIFICATIONS (Health and Safety Plan, Waste Management Plan, and SWP3 plan)

- Will a bid item be provided for removal of AC Pipe? **Answer – AC pipe removal is paid for under items 3000.14 and 3000.15.**
- The Environmental Specifications makes no concern about traffic signal work at the various AOC. There will be conduits runs and foundations which will need to be identified at AOC “G” in the base bid at Weizmann and AOC “T, U & V” at the Fresno intersection for the additive alternate. **Answer - The quantities shown for Transportation and Disposal of Impacted Soils is adequate to account for any excavation associated with traffic signal work.**
- On page #13 of the Environmental specifications it indicates we will need to obtain and pay for a SAWS permit for the water disposal. Does SAWS have a cost identified for this? **Answer – The cost of the SAWS permit will be determined once the contract is awarded. A change order will be processed at that time to compensate the contractor for the permit cost.**
- On the waste management disposal plan on sheet 5, discussion is made regarding the potential use of polyethylene sheeting. The way it is written makes it a real guessing game as to any amounts needed. Can this be changed to

either make it a requirement for sheeting or none at all? **Answer – Polyethylene sheeting is required if the Contractor chooses to stockpile the soils on the ground. If the Contractor chooses to utilize roll-off container, no sheeting is necessary. The amounts calculated for the soil to be reused are for the overall project (Base and Alternate Bids).**

UTILITIES

- For the sanitary sewer and the water mains, may we please have a pay item to provide for temporary pavement for each respective item? **Answer – Refer to SAWS Standard Specifications 804.4.2d.**
- Per SAWS Specification 851—Adjusting Existing Manholes, sub-section 851.1 SAWS approved sewer structural coating, Please provide rim and invert elevations for existing sewer manholes to be adjusted on Sheets S13 & /S23 of the Base Bid Sanitary Sewer Plans. **Answer – The final manhole elevations will be determined in the field.**
- Per SAWS Specification 851—Adjusting Existing Manholes, sub-section 851.1 SAWS approved sewer structural coating, Please provide rim and invert elevations for existing sewer manholes to be adjusted on Sheets S25 & /S27 of the Add Alt 1 Bid Sanitary Sewer Plans. **Answer – The final manhole elevations will be determined in the field.**
- Please verify that existing sanitary sewer flows through Line “D” (sheet S12) are not changing directions through existing manholes at Sta: 76+62 (proposed MH-3) and Sta: 78+03 (proposed MH-4). No plan note to remove exist manhole (NSPI) shown at these locations. **Answer - All existing manholes needed to be removed due to proposed construction are no separate pay item (NSPI). Sheet S12 has been updated as part of Addendum #4.**

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: BLANCO ROAD (From Hildebrand to Jackson Keller)
PROJECT NO.: 04-00004 (BASE BID)

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	100.1			MOBILIZATION	LS	1			1
	100.2			INSURANCE AND BOND	LS	1			2
	101.1			PREPARING RIGHT OF WAY	LS	1			3
	104.1			STREET EXCAVATION	CY	15674			4
	106.1			BOX CULVERT EXCAVATION & BACKFILL	CY	6783			5
	107.1			EMBANKMENT (FINAL)(DENS CONT)(TY B)	CY	98			6
	108.1			LIME TREAT. SUBGRADE (6" COMPACTED DEPTH)	SY	26698			7
	108.2			LIME	TON	481			8
	200.1			FLEXIBLE BASE (6" COMPACTED DEPTH)(TY C)	SY	75			9
	203.1			TACK COAT	GAL	19			10
	205.2			HOT MIX ASPHALTIC PAVEMENT, TYPE B (6" COMP. DEPTH)	SY	657			11
	205.2			HOT MIX ASPHALTIC PAVEMENT, TYPE B (8.5" COMP. DEPTH)	SY	26698			12
	205.2			HOT MIX ASPHALTIC PAVEMENT, TYPE B (12" COMP. DEPTH)	SY	501			13
	205.2			HOT MIX ASPHALTIC PAVEMENT, TY B (7.5" COMPACTED DEPTH)	SY	175			14
	205.3			HOT MIX ASPHALTIC PAVEMENT, TYPE C (2" COMP. DEPTH)	SY	24887			15
	205.4			HOT MIX ASPHALTIC PAVEMENT, TY D (2.5" COMPACTED DEPTH)	SY	191			16
	209.1			CONCRETE PAVEMENT (10" DEPTH)(BUS PAD)	SY	1665			17
	230.1			FLEXIBLE PAVEMENT FULL-DEPTH REPAIR (6" COMP. DEPTH)	SY	687			18
	230.2			CONCRETE PAVEMENT FULL-DEPTH REPAIR (6" COMP. DEPTH)	SY	144			19
	234.1			BASE REINFORCEMENT TX-5	SY	26698			20
	260			ULTRA-THIN BONDED HOT MIX WEARING COURSE (NOVACHIP SURFACE TREATMENT)	SY	24887			21
	308.1			DRILLED SHAFTS (24")	LF	28.5			22
	308.1			DRILLED SHAFTS (30")	LF	11.3			23
	308.1			DRILLED SHAFTS (36")	LF	66			24
	309.1			PRECAST CONCRETE CULVERT (3'X3')	LF	61.29			25
	309.1			PRECAST CONCRETE CULVERT (4'X3')	LF	171.1			26
	309.1			PRECAST CONCRETE CULVERT (6'X5')	LF	1051.86			27
	401.1		401	REINFORCED CONCRETE PIPE (24") CLASS III	LF	1004.75			28
	401.1		401	REINFORCED CONCRETE PIPE (30") CLASS III	LF	592.7			29
	401.1		401	REINFORCED CONCRETE PIPE (36") CLASS III	LF	281.16			30
	401.1		401	REINFORCED CONCRETE PIPE (42") CLASS III	LF	234.47			31
	401.1		401	REINFORCED CONCRETE PIPE (48") CLASS III	LF	249.1			32
	401.1		401	REINFORCED CONCRETE PIPE (60") CLASS III	LF	521.65			33
	403.1		403	JUNCTION BOX 4'X4'X4'	EA	9			34
	403.3		403	JUNCTION BOX 6'X6'X6'	EA	6			35
	403.4		403	JUNCTION BOX 7'X7'X7'	EA	3			36
	403.5		403	JUNCTION BOX 8'X8'X8'	EA	1			37
	403.7		403	INLET (TY I)	EA	8			38
	403.09		403	INLET (TY III)	EA	7			39
	403.11		403	INLET (TY V)	EA	6			40
	403.15		403	TY W-5	EA	1			41
	403.21		403	TY X-1	EA	2			42
	403.22		403	TY X-2	EA	2			43
	403.23		403	TY X-3	EA	1			44

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: BLANCO ROAD (From Hildebrand to Jackson Keller)
PROJECT NO.: 04-00004 (BASE BID)

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	403.24		403	TY X-4	EA	5			45
	403.25		403	TY X-5	EA	2			46
	403.26		403	TY X-6	EA	4			47
	403.27			MANHOLE VERTICAL STACK	EA	9			48
	406.2			JACKING OR TUNNELING BOX CULVERT (6' X 5')	LF	25			49
	410.2			GRAVEL SUBGRADE FILLER	CY	607.6			50
	413.1			FLOWABLE BACKFILL	CY	1161.2			51
	500.1			CONCRETE CURBING	LF	7852			52
	502.1		502	CONCRETE SIDEWALKS	SY	3711			53
	503.1		503	PORTLAND CEMENT CONCRETE DRIVEWAYS	SY	65			54
	503.2		503	PORTLAND CEMENT CONCRETE DRIVEWAYS - COMMERCIAL	SY	3080			55
	503.4		503	ASPHALTIC CONCRETE DRIVEWAY	SY	1039			56
	503.5		503	GRAVEL DRIVEWAY	SY	9			57
	504.1			CONCRETE MEDIAN	SY	269			58
	504.2			CONCRETE DIRECTIONAL ISLAND	SY	121			59
	505.1		505	CONCRETE RIPRAP (4")	SY	10			60
	505.1		505	CONCRETE RIPRAP (5" THICK)	SY	63.3			61
	506.1			CONCRETE RETAINING WALLS-COMB. TYPE	CY	41			62
	507.1			CHAIN LINK WIRE FENCE (4' HIGH)	LF	92			63
	507.2			CHAIN LINK WIRE FENCE (6' HIGH)	LF	152			64
	507.3			CHAIN LINK WIRE FENCE (8' HIGH)	LF	50			65
	507.4			GATES-PEDESTRIAN	EA	2			66
	508.1			RELOCATING WIRE FENCE	LF	50			67
	516.1			BURMUDA SODDING	SY	692			68
	516.2			ST. AUGUSTINE SODDING	SY	692			69
	522.1			SIDEWALK PIPE RAILING	LF	10			70
	523.1		523	ADJUSTING VEHICULAR GATES	OPENING	2			71
	523.3		523	ADJUSTING PEDESTRIAN GATES	EA	2			72
	525.1			CONCRETE TRAFFIC BARRIER (PORTABLE)	LF	3060			73
	530.1			BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1			74
	531.03			R1-1 STOP (30")(HIGH DENSITY)	EA	14			75
	531.04			R1-2 YIELD (36")(HIGH DENSITY)	EA	2			76
	531.06			R2-1 SPEED LIMIT (24"x30")	EA	6			77
	531.21			R7-1 NO PARKING ANYTIME (18"x24")(HIGH DENSITY)	EA	2			78
	531.22			R7-18 NO PARKING THIS SIDE THIS BLOCK (18"x24")(HIGH DENSITY)	EA	1			79
	531.24			R9-3A PEDESTRIAN CROSSING PROHIBITED (18"x18")(HIGH DENSITY)	EA	1			80
	531.57			9 INCH STREET NAME BLOCK NUMBERS (VARIES X 9")	EA	54			81
	531.59			SPECIAL SIGN (HIGH DENSITY)	EA	7			82
	531.86			R9-3B USE CROSSWALK (18"x12")(HIGH INTENSITY)	EA	1			83
	531.87			R10-1 CROSS ONLY ON PED SIGNAL (9"x12")(HIGH INTENSITY)	EA	12			84
	535.01			4 INCH WIDE YELLOW LINE	LF	5625			85
	535.02			4 INCH WIDE WHITE LINE	LF	1800			86
	535.04			8 INCH WIDE WHITE LINE	LF	745			87
	535.07			24 INCH WIDE WHITE LINE	LF	940			88
	535.09			LEFT WHITE ARROW	EA	8			89
	535.12			WORD "ONLY"	EA	3			90

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: BLANCO ROAD (From Hildebrand to Jackson Keller)
PROJECT NO.: 04-00004 (BASE BID)

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	535.22			6 INCH BROKEN WHITE LINE	LF	60			91
	535.30			24 INCH WIDE YELLOW LINE	LF	193			92
	535.31			18 INCH WHITE YIELD TRIANGLE	EA	20			93
	535.32			YELLOW MEDIAN NOSE	EA	1			94
	537.1			TRAFFIC BUTTON (TYPE W)	EA	2434			95
	537.2			TRAFFIC BUTTON (TYPE Y)	EA	3262			96
	537.6			PAVEMENT MARKER (TYPE I-C)	EA	204			97
	537.8			PAVEMENT MARKER (TYPE II A-A)	EA	1326			98
	537.9			PAVEMENT MARKER (TYPE II C-R)	EA	809			99
	540.06			CONSTRUCTION EXITS (INSTALL/REMOVE)	SY	390			100
	540.07			CONSTRUCTION PERIMETER FENCE	LF	11630			101
	540.10			CURB INLET GRAVEL FILTERS	LF	980			102
	550.1			TRENCH EXCAVATION SAFETY PROTECTION	LF	4140.08			103
	552.1			REMOVING AND RELOCATING IRRIGATION SYSTEMS	LF	300			104
	615.1			TRAFFIC SIGNAL CONTROLLER ASSEMBLY (TYPE 332 CABINET)	EA	2			105
	618.1			CONDUIT (2 INCH/PVC SCHEDULE 40)	LF	3404			106
	618.2			CONDUIT (3 INCH / PVC SCHEDULE 40)	LF	1054			107
	620.1			ELECTRICAL CONDUCTORS (NO. 6) (BARE)	LF	46			108
	620.2			ELECTRICAL CONDUCTORS (NO. 8) (BARE)	LF	708			109
	620.3			ELECTRICAL CONDUCTORS (NO. 6) (INSULATED)	LF	152			110
	624.8			GROUND BOXES TYPE D (162922) W/ APRON	EA	26			111
	628.1			ELECTRICAL SERVICES	EA	2			112
	633.1			BATTERY BACKUP FOR TRAFFIC SIGNAL	EA	2			113
	655.1			TYPE 332 CONTROLLER FOUNDATION	EA	2			114
	680.2			INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM)	EA	2			115
	681.1			TEMP TRAFFIC SIGNAL (PER INTERSECTION)	EA	2			116
	682.10			INS VEH SIG SECTION W/BACK PLATE (12 INCH)(3 SECONDS)	EA	14			117
	682.23			INS VEH SIG SECTION W/BACK PLATE (12 INCH)(4 SECONDS)	EA	4			118
	686.282B			INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (2 ARM 28-28')(ILSN)	EA	1			119
	682.4			INSTALL PEDESTRIAN SIGNAL SECTION (12 IN) LED (2 IND)	EA	12			120
	684.1			TRAFFIC SIGNALCABLES (TYPE A)(14AWG)(CONDUCTOR NO.4)	LF	906			121
	684.1			TRAFFIC SIGNALCABLES (TYPE A)(14AWG)(CONDUCTOR NO.9)	LF	2478			122
	686.51			INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 36')(ILSN)	EA	1			123
	686.61			INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 40')(ILSN)	EA	4			124
	687.1			PEDESTAL POLE ASSEMBLY	EA	5			125
	688.2			PEDESTRIAN DETECTORS (2 INCH PUSH BUTTON)	EA	12			126
	693.1			INTERNALLY LIGHTED STREET NAME SIGN (LED) (6 FT) (DOUBLE SIDED)	EA	4			127
	693.2			INTERNALLY LIGHTED STREET NAME SIGN (LED) (8 FT) (DOUBLE SIDED)	EA	2			128
	693.3			INTERNALLY LIGHTED STREET NAME SIGN (LED) (6 FT) (SINGLE SIDED)	EA	1			129
	694.1			VIVDS PROCESSOR UNIT	EA	15			130
	694.2			VIVDS CAMERA ASSEMBLY	EA	15			131
	694.4			VIVDS SET-UP SYSTEM	EA	2			132
	694.6			VIVDS COMMUNICATION CABLE (COAXIAL)	LF	2022			133
	695.3			EMERGENCY PREEMPTION DETECTOR	EA	3			134
	695.4			EMERGENCY PREEMPTION DETECTOR CABLE	LF	1118			135
	801.2			LEVEL IIA PROTECTIVE FENCING	LF	100			136
	801.3			LEVEL IIB PROTECTIVE FENCING	LF	23			137
	802.2			LEVEL II PRUNING	LS	1			138
	9506			REMOVAL AND REPLACEMENT OF WROUGHT IRON FENCE	LF	50			139
	9507			REMOVING AND REPLACING PIPE RAIL FENCE	LF	50			140
	9508.1			REMOVAL AND REPLACEMENT OF WOOD FENCE	LF	50			141

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: BLANCO ROAD (From Hildebrand to Jackson Keller)
PROJECT NO.: 04-00004 (BASE BID)

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	9508.2			REMOVAL AND REPLACEMENT OF WOOD GATES	EA	2			142
	110.2.1			TRANSPORTATION TO DISPOSAL FACILITY (COSA)	CY	3000			143
	110.2.4			TRANSPORTATION TO DISPOSAL FACILITY (CPS))	CY	240			144
	110.2.9			LANDFILL DISPOSAL (COSA)	CY	3000			145
	110.2.12			LANDFILL DISPOSAL (CPS)	CY	240			146
	110.4.1			REMOVAL, STORAGE AND TREATMENT OF IMPACTED GROUNDWATER	GAL	25000			147
	110.4.2			DISPOSAL OF IMPACTED GROUNDWATER	GAL	25000			148
	110.5.1			DEVELOPMENT OF A SITE SPECIFIC HEALTH AND SAFETY PLAN	LS	1			149
	110.6.1			DEVELOPMENT OF THE WASTE MANAGEMENT PLAN	LS	1			150
	110.6.2			ENVIRONMENTAL OVERSIGHT IMPLEMENTATION	LS	1			151
	0662 2001			WK ZN PAV MRK NON-REMOV (W) 4" (BRK)	LF	1780			152
	0662 2012			WK ZN PAV MRK NON-REMOV (W) 8" (SLD)	LF	745			153
	0662 2032			WK ZN PAV MRK NON-REMOV (Y) 4" (SLD)	LF	5587			154
	0662 2079			WK ZN PAV MRK REMOV (W) 24" (SLD)	LF	492			155
	0662 2113			WORK ZN PAV MRK SHT TERM (TAB) TY W	EA	450			156
	0662 2114			WORK ZN PAV MRK SHT TERM (TAB) TY Y	EA	1050			157
				OFF DUTY POLICE OFFICERS FOR TRAFFIC CONTROL	LS	1	\$100,000.00	\$100,000.00	158
				SITWORK AND FOUNDATION FOR PUBLIC ART	LS	1	\$100,000.00	\$100,000.00	159
Total CoSA Base Bid Amount:									

SAWS Sanitary Sewer Base Bid

	100			Mobilization	LS	1			1
	101			Preparation of Right-of-Way	LS	1			2
	550			Trench Excavation Safety Protection	LF	1,967.70			3
	848			8" PVC Gravity Sanitary Sewer Line (0'-6' Cut) (SRD 26)	LF	223.20			4
	848			8" PVC Gravity Sanitary Sewer Line (6'-10' Cut) (SRD 26)	LF	590.36			5
	848			8" PVC Gravity Sanitary Sewer Line (10'-14' Cut) (SRD 26)	LF	184.81			6
	848			8" PVC Gravity Sanitary Sewer Line (14'-18' Cut) (SRD 26)	LF	46.00			7
	848			10" PVC Gravity Sanitary Sewer Line (6'-10' Cut) (SRD 26)	LF	134.25			8
	848			10" PVC Gravity Sanitary Sewer Line (10'-14' Cut) (SRD 26)	LF	384.41			9
	848			10" PVC Gravity Sanitary Sewer Line (14'-18' Cut) (SRD 26)	LF	14.62			10
	848			15" PVC Gravity Sanitary Sewer Line (10'-14' Cut) (SRD 26)	LF	95.75			11
	848			15" PVC Gravity Sanitary Sewer Line (14'-18' Cut) (SRD 26)	LF	254.30			12
	851			Adjusting Existing Manholes (Watertight Ring and Cover)	EA	3			13
	852.1			Sanitary Sewer Manhole (0'-6')	EA	14			14
	852.2			Sanitary Sewer Drop Manhole (0'-6')	EA	2			15
	852.3			Extra Depth Manhole (>6')	VF	46.3			16
	854			Sanitary Sewer Laterals	LF	529			17
	854A			One-Way Sanitary Sewer Clean-out	EA	17			18
	858			Concrete Encasement, Cradles, Saddles & Collars	CY	13.0			19
	860			Vertical Stacks	VF	12.0			20
	864			Bypass Pumping	LS	1			21
	866			Post-Construction Sanitary Sewer Main Television Inspection (8"-15" Main)	LF	1,927.70			22
	866			Pre-Construction Sanitary Sewer Main Television Inspection (8"-15" Main)	LF	2,533.92			23
	110.2.3			TRANSPORTATION TO DISPOSAL FACILITY (SAWS SEWER)	CY	280			24
	110.2.11			LANDFILL DISPOSAL (SAWS SEWER)	CY	280			25
Total SAWS Sanitary Sewer Base Bid Amount:									

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: BLANCO ROAD (From Hildebrand to Jackson Keller)
PROJECT NO.: 04-00004 (BASE BID)

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
SAWS Water Base Bid									
	100			Mobilization	LS	1			1
	101			Preparation of Right-of-Way	LS	1			2
	550			Trench Excavation Safety Protection	LF	4,612			3
	818			6" PVC Waterline (Restrained)	LF	44			4
	818			8" PVC Waterline (Restrained)	LF	3,788			5
	818			12" PVC Waterline (Restrained)	LF	723			6
	818			16" PVC Waterline (Restrained)	LF	57			7
	824			Relay 3/4" Short Service	EA	10			8
	824			Relay 3/4" Long Service	EA	8			9
	824			Relay 1" Long Service	EA	4			10
	824			Relay 1 1/2" Short Service	EA	1			11
	824			Relay 1 1/2" Long Service	EA	3			12
	824			Relay 2" Short Service	EA	2			13
	824			Relay 4" Short Service	EA	1			14
	824.5			Customer Shut-Off Valve	EA	13			15
	826			Valve Box Adjustment	EA	2			16
	828			4" Gate Valve	EA	1			17
	828			8" Gate Valve	EA	24			18
	828			12" Gate Valve	EA	4			19
	828			16" Gate Valve	EA	1			20
	832			24"x8" Tapping Sleeves & Valves	EA	1			21
	833			Existing Meter and New Meter Box Relocation	EA	28			22
	833			Meter Box	EA	28			23
	834			Fire Hydrant	EA	8			24
	836			Pipe Fittings, All Sizes and Types	TON	15.20			25
	840			6" Water Tie-ins	EA	9			26
	840			8" Water Tie-ins	EA	8			27
	840			12" Water Tie-ins	EA	5			28
	840			16" Water Tie-ins	EA	2			29
	840			24" Water Tie-ins	EA	1			30
	841			Hydrostatic Testing	EA	7			31
	844			2" Blowoff, Temporary	EA	19			32
	846			1" Air Release Assemblies	EA	1			33
	856.2			8" Carrier Pipe	LF	68			34
	856.3			Casing or Liner 24"	LF	68			35
	3000.14			Removal, Transp and Disposal of AC Pipe	LS	1			36
	3000.15			Asbestos Abatement Work Plan	LS	1			37
	110.2.2			TRANSPORTATION TO DISPOSAL FACILITY (SAWS WATER)	CY	250			38
	110.2.10			LANDFILL DISPOSAL (SAWS WATER)	CY	250			39
							Total SAWS Water Base Bid Amount:		

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: BLANCO ROAD (From Hildebrand to Jackson Keller)
PROJECT NO.: 04-00004 (BASE BID)

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
CPS Energy Gas Base Bid									
NOTE A: For each of the items below, the Contractor's work is to include: trenching, joining, testing, coating steel, connecting new pipe to existing pipe and all necessary fittings for tie-ins such as, stopper fittings and 3-way stopper tees, sand padding, backfilling and compacting to consistency of original soil, installing all necessary cathodic protection devices such as CPTLB's and anodes, replacing paving, curbs, and sidewalks removed or damaged during construction, and cleanup as may be necessary in each instance.									
NOTE B: Trenching is considered to be the normal method of service installation and is required on all service adjustments. A gas service can be rerun by INSERTION, when the old service is PULLED from the riser to one foot inside the property line, ONLY at the discretion of the CPS Inspector.									
NOTE C: Bid quantities shown are estimates by CPS. Per foot prices shall be applied to the actual distance measured along the top of the trench or the actual length of the bore, as applicable.									
NOTE D: Unit prices shall include insurance costs. CPS' insurance requirements are specified in Exhibit GAS-1.									
	1			Rerun and Lower Gas Service Off New Main (Main to 1 Ft. Inside Property Line), Sizes 1/2" thru 4" (including replacing riser if necessary).					
				SHORT SIDE	1 EA	3			1
				LONG SIDE	1 EA	4			2
	2			Rerun and Lower Gas Service Off New Main to Meter, Sizes 1/2" thru 4" (including replacing riser if necessary).					
				SHORT SIDE	1 EA	3			3
				LONG SIDE	1 EA	5			4
	3			Extend or Cut Back, pump test and tie existing service to new main, sizes 1/2" to 4"					
				TIE OVER	1 EA	1			5
	4			Install Gas Main or Casing (Distance As Measured Along the Top of Trench)					
				2" PLASTIC PIPE AND TRACER WIRE	1 FT	2944			6
				6" PLASTIC PIPE AND TRACER WIRE	1 FT	88			7
				8" PLASTIC PIPE AND TRACER WIRE	1 FT	58			8
				12" STEEL	1 FT	1162			9
The COST to abandon the existing main(s) is not an ADDITIONAL item and is to be included in the Unit Price(s) for this item.									
	5			Install Gas Mains Joint Trench (Distance As Measured Along the Top of Trench)					
				6" PLASTIC PIPE WITH TRACER WIRE & 12" STEEL	1 FT	1092			10
				2" PLASTIC PIPE WITH TRACER WIRE & 12" STEEL	1 FT	198			11
The COST to abandon the existing main(s) is not an ADDITIONAL item and is to be included in the Unit Price(s) for this item.									
	6			Fabricate and Install Underground Double Run Regulator Station. Includes abandoning and removal of existing Regulator Station.					
				REGULATOR STATION	1 EA	1			12
	7			Install Underground Vault, Concrete Pad, and Concrete filled Bollards. Includes abandoning and removal of existing Underground Vault.					
				UNDERGROUND VAULT	1 EA	2			13
	8			Temporary Street Restoration (Utility Adjustment Phase)					
				ASPHALT - 6" H.M.A.C. TYPE B	1 SY	710			14

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: BLANCO ROAD (From Hildebrand to Jackson Keller)
PROJECT NO.: 04-00004 (BASE BID)

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	9			Street Restoration Adjustment, when required. To be used as directed by the CPS Energy Representative.					
				FLOWABLE FILL OR ASPHALT TREATED BASE	1 CY	11			15
				ASPHALT (2" H.M.A.C. TYPE D)	1 SY	50			16
Total CPS Gas Base Bid Amount:									

_____ certifies that the unit prices shown on this complete computer print-out for all of the bid items and the alternates contained in this proposal are the unit prices intended and that its bid will be tabulated using these unit prices and no other information from this print-out.

_____ Acknowledged and agrees that the total bid amount shown will be read as its total bid and further agrees that the official total bid amount will be determined by multiplying the unit bid prices shown in this print-out by the respective estimated quantities shown in the proposal and then totaling all of the extended amounts. _____ agrees to the terms, conditions, and requirements of the bidder's bid proposal.

Signed: _____ Date: _____

Title: _____

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: BLANCO ROAD (From Hildebrand to Jackson Keller)
PROJECT NO.: 04-00004 (ADDITIVE ALTERNATE 1)

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
1	100.1			MOBILIZATION	LS	1			1
1	100.2			INSURANCE AND BOND	LS	1			2
1	101.1			PREPARING RIGHT OF WAY	LS	1			3
1	104.1			STREET EXCAVATION	CY	9757			4
1	106.1			BOX CULVERT EXCAVATION & BACKFILL	CY	2439			5
1	107.1			EMBANKMENT (FINAL)(DENS CONT)(TY B)	CY	13			6
1	108.1			LIME TREAT. SUBGRADE (6" COMPACTED DEPTH)	SY	17114			7
1	108.2			LIME	TON	309			8
1	200.1			FLEXIBLE BASE (6" COMPACTED DEPTH)(TY C)	SY	24			9
1	203.1			TACK COAT	GAL	9			10
1	205.2			HOT MIX ASPHALTIC PAVEMENT, TYPE B (8.5" COMP. DEPTH)	SY	17114			11
1	205.2			HOT MIX ASPHALTIC PAVEMENT, TY B (7.5" COMPACTED DEPTH)	SY	89			12
1	205.3			HOT MIX ASPHALTIC PAVEMENT, TYPE C (2.25" COMP. DEPTH)	SY	445			13
1	205.3			HOT MIX ASPHALTIC PAVEMENT, TYPE C (2" COMP. DEPTH)	SY	16552			14
1	208.1			SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT(3" DEPTH)	SY	445			15
1	209.1			CONCRETE PAVEMENT (10" DEPTH)(BUS PAD)	SY	1254			16
1	230.1			FLEXIBLE PAVEMENT FULL-DEPTH REPAIR (6" COMP. DEPTH)	SY	424			17
1	230.2			CONCRETE PAVEMENT FULL-DEPTH REPAIR (6" COMP. DEPTH)	SY	97			18
1	234.1			BASE REINFORCEMENT TX-5	SY	17114			19
1	260			ULTRA-THIN BONDED HOT MIX WEARING COURSE (NOVACHIP SURFACE TREATMENT)	SY	16997			20
1	308.1			DRILLED SHAFTS (24")	LF	5.7			21
1	308.1			DRILLED SHAFTS (30")	LF	67.8			22
1	308.1			DRILLED SHAFTS (36")	LF	52.8			23
1	309.1			PRECAST CONCRETE CULVERT (6'X4')	LF	428.04			24
1	401.1		401	REINFORCED CONCRETE PIPE (24") CLASS III	LF	644.2			25
1	401.1		401	REINFORCED CONCRETE PIPE (42") CLASS III	LF	440.71			26
1	401.1		401	REINFORCED CONCRETE PIPE (48") CLASS III	LF	1144.31			27
1	401.1		401	REINFORCED CONCRETE PIPE (54") CLASS III	LF	326.98			28
1	403.1		403	JUNCTION BOX 4'X4'X4'	EA	1			29
1	403.3		403	JUNCTION BOX 6'X6'X6'	EA	10			30
1	403.4		403	JUNCTION BOX 7'X7'X7'	EA	3			31
1	403.5		403	JUNCTION BOX 8'X8'X8'	EA	1			32
1	403.7		403	INLET (TY I)	EA	6			33
1	403.09		403	INLET (TY III)	EA	12			34
1	403.11		403	INLET (TY V)	EA	1			35
1	403.21		403	TY X-1	EA	3			36
1	403.23		403	TY X-3	EA	4			37
1	403.25		403	TY X-5	EA	1			38
1	403.27			MANHOLE VERTICAL STACK	EA	4			39
1	410.2			GRAVEL SUBGRADE FILLER	CY	451.4			40
1	413.1			FLOWABLE BACKFILL	CY	1177.7			41
1	500.1			CONCRETE CURBING	LF	4923			42

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: BLANCO ROAD (From Hildebrand to Jackson Keller)
PROJECT NO.: 04-00004 (ADDITIVE ALTERNATE 1)

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
1	502.1		502	CONCRETE SIDEWALKS	SY	2287			43
1	503.1		503	PORTLAND CEMENT CONCRETE DRIVEWAYS	SY	951			44
1	503.2		503	PORTLAND CEMENT CONCRETE DRIVEWAYS - COMMERCIAL	SY	1744			45
1	503.4		503	ASPHALTIC CONCRETE DRIVEWAY	SY	915			46
1	503.5		503	GRAVEL DRIVEWAY	SY	121			47
1	506.1			CONCRETE RETAINING WALLS-COMB. TYPE	CY	33.3			48
1	507.1			CHAIN LINK WIRE FENCE (4' HIGH)	LF	43			49
1	507.2			CHAIN LINK WIRE FENCE (6' HIGH)	LF	127			50
1	507.5			GATES-VEHICULAR	OPENING	2			51
1	516.1			BURMUDA SODDING	SY	217			52
1	516.2			ST. AUGUSTINE SODDING	SY	217			53
1	524.1			CONCRETE STEPS	CY	2			54
1	525.1			CONCRETE TRAFFIC BARRIER (PORTABLE)	LF	2020			55
1	530.1			BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1			56
1	531.03			R1-1 STOP (30")(HIGH DENSITY)	EA	7			57
1	531.06			R2-1 SPEED LIMIT (24"x30")	EA	3			58
1	531.11			R3-5L LEFT ONLY (30"x36") (HIGH INTENSITY)	EA	1			59
1	531.34			S1-1 ADVANCE SCHOOL CROSSING AND SCHOOL CROSSING (36"x36")	EA	6			60
1	531.35			W16-7 DIAGONAL ARROW SIGN (DIAMOND GRADE (FLUORESCENT YELLOW GREEN))(30"x18")	EA	4			61
1	531.57			9 INCH STREET NAME BLOCK NUMBERS (VARIES X 9")	EA	28			62
1	531.62			W16-9P AHEAD (36"x20")(HIGH DENSITY)	EA	1			63
1	531.66			S5-2A END SCHOOL ZONE (24"x9")	EA	2			64
1	531.87			R10-1 CROSS ONLY ON PED SIGNAL (9"x12")(HIGH INTENSITY)	EA	16			65
1	535.01			4 INCH WIDE YELLOW LINE	LF	5207			66
1	535.02			4 INCH WIDE WHITE LINE	LF	1210			67
1	535.04			8 INCH WIDE WHITE LINE	LF	220			68
1	535.07			24 INCH WIDE WHITE LINE	LF	961			69
1	535.09			LEFT WHITE ARROW	EA	6			70
1	535.30			24 INCH WIDE YELLOW LINE	LF	305			71
1	535.32			YELLOW MEDIAN NOSE	EA	5			72
1	537.1			TRAFFIC BUTTON (TYPE W)	EA	936			73
1	537.2			TRAFFIC BUTTON (TYPE Y)	EA	2028			74
1	537.6			PAVEMENT MARKER (TYPE I-C)	EA	129			75
1	537.8			PAVEMENT MARKER (TYPE II A-A)	EA	863			76
1	537.9			PAVEMENT MARKER (TYPE II C-R)	EA	317			77
1	540.06			CONSTRUCTION EXITS (INSTALL/REMOVE)	SY	234			78
1	540.07			CONSTRUCTION PERIMETER FENCE	LF	6440			79
1	540.10			CURB INLET GRAVEL FILTERS	LF	590			80
1	550.1			TRENCH EXCAVATION SAFETY PROTECTION	LF	2984.24			81
1	552.1			REMOVING AND RELOCATING IRRIGATION SYSTEMS	LF	200			82
1	615.1			TRAFFIC SIGNAL CONTROLLER ASSEMBLY (TYPE 332 CABINET)	EA	2			83
1	618.1			CONDUIT (2 INCH/PVC SCHEDULE 40)	LF	2445			84
1	618.2			CONDUIT (3 INCH/PVC SCHEDULE 40)	LF	1357			85
1	620.1			ELECTRICAL CONDUCTORS (NO. 6) (BARE)	LF	30			86
1	620.2			ELECTRICAL CONDUCTORS (NO. 8) (BARE)	LF	701			87
1	620.3			ELECTRICAL CONDUCTORS (NO. 6) (INSULATED)	LF	60			88
1	624.8			GROUND BOXES TYPE D (162922) W/ APRON	EA	22			89
1	628.1			ELECTRICAL SERVICES	EA	2			90
1	633.1			BATTERY BACKUP FOR TRAFFIC SIGNAL	EA	2			91
1	655.1			TYPE 332 CONTROLLER FOUNDATION	EA	2			92
1	680.2			INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM)	EA	2			93
1	681.1			TEMP TRAFFIC SIGNAL (PER INTERSECTION)	EA	2			94

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: BLANCO ROAD (From Hildebrand to Jackson Keller)
PROJECT NO.: 04-00004 (ADDITIVE ALTERNATE 1)

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
1	682.10			INS VEH SIG SECTION W/BACK PLATE (12 INCH)(3 SECONDS)	EA	16			95
1	682.23			INS VEH SIG SECTION W/BACK PLATE (12 INCH)(4 SECONDS)	EA	3			96
1	682.4			INSTALL PEDESTRIAN SIGNAL SECTION (12 IN) LED (2 IND)	EA	16			97
1	684.1			TRAFFIC SIGNAL CABLES (TYPE A)(14AWG)(CONDUCTOR NO.4)	LF	993			98
1	684.1			TRAFFIC SIGNAL CABLES (TYPE A)(14AWG)(CONDUCTOR NO.9)	LF	2305			99
1	685.4			SOLAR POWERED (PHOTOVOLTAIC) SCHOOL ZONE FLASHER ASSEMBLY (MAST ARM)	EA	2			100
1	686.30			INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 28')	EA	2			101
1	686.31			INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 28')(ILSN)	EA	2			102
1	686.41			INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 32')(ILSN)	EA	2			103
1	686.51			INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 36')(ILSN)	EA	1			104
1	686.61			INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 40')(ILSN)	EA	3			105
1	687.1			PEDESTAL POLE ASSEMBLY	EA	1			106
1	688.2			PEDESTRIAN DETECTORS (2 INCH PUSH BUTTON)	EA	16			107
1	693.1			INTERNALLY LIGHTED STREET NAME SIGN (LED) (6 FT) (DOUBLE SIDED)	EA	6			108
1	693.2			INTERNALLY LIGHTED STREET NAME SIGN (LED) (8 FT) (DOUBLE SIDED)	EA	2			109
1	694.1			VIVDS PROCESSOR UNIT	EA	16			110
1	694.2			VIVDS CAMERA ASSEMBLY	EA	16			111
1	694.4			VIVDS SET-UP SYSTEM	EA	2			112
1	694.6			VIVDS COMMUNICATION CABLE (COAXIAL)	LF	2120			113
1	695.3			EMERGENCY PREEMPTION DETECTOR	EA	2			114
1	695.4			EMERGENCY PREEMPTION DETECTOR CABLE	LF	1529			115
1	801.2			LEVEL IIA PROTECTIVE FENCING	LF	100			116
1	801.3			LEVEL IIB PROTECTIVE FENCING	LF	34			117
1	802.2			LEVEL II PRUNING	LS	1			118
1	110.2.5			TRANSPORTATION TO DISPOSAL FACILITY (COSA)	CY	2650			119
1	110.2.8			TRANSPORTATION TO DISPOSAL FACILITY (CPS)	CY	80			120
1	110.2.13			LANDFILL DISPOSAL (COSA)	CY	2650			121
1	110.2.16			LANDFILL DISPOSAL (CPS)	CY	80			122
1	110.4.3			REMOVAL, STORAGE AND TREATMENT OF IMPACTED GROUNDWATER	GAL	25000			123
1	110.4.4			DISPOSAL OF IMPACTED GROUNDWATER	GAL	25000			124
1	110.5.2			DEVELOPMENT OF A SITE SPECIFIC HEALTH AND SAFETY PLAN	LS	1			125
1	110.6.3			DEVELOPMENT OF THE WASTE MANAGEMENT PLAN	LS	1			126
1	110.6.4			ENVIRONMENTAL OVERSIGHT IMPLEMENTATION	LS	1			127
1	0662 2001			WK ZN PAV MRK NON-REMOV (W) 4" (BRK)	LF	1210			128
1	0662 2012			WK ZN PAV MRK NON-REMOV (W) 8" (SLD)	LF	220			129
1	0662 2032			WK ZN PAV MRK NON-REMOV (Y) 4" (SLD)	LF	5207			130
1	0662 2079			WK ZN PAV MRK REMOV (W) 24" (SLD)	LF	313			131
1	0662 2113			WORK ZN PAV MRK SHT TERM (TAB) TY W	EA	450			132
1	0662 2114			WORK ZN PAV MRK SHT TERM (TAB) TY Y	EA	1050			133
1				OFF DUTY POLICE OFFICERS FOR TRAFFIC CONTROL	LS	1	\$100,000.00	\$100,000.00	134
Total CoSA Additive Alternate 1 Bid Amount:									

SAWS Sanitary Sewer Additive Alternate 1 Bid

1	100			Mobilization	LS	1			1
1	101			Preparation of Right-of-Way	LS	1			2
1	550			Trench Excavation Safety Protection	LF	140.13			3
1	848			8" PVC Gravity Sanitary Sewer Line (0'-6' Cut) (SRD 26)	LF	23.00			4
1	848			8" PVC Gravity Sanitary Sewer Line (6'-10' Cut) (SRD 26)	LF	87.13			5
1	851			Adjusting Existing Manholes (Watertight Ring and Cover)	EA	2			6
1	852.1			Sanitary Sewer Manhole (0'-6')	EA	2			7

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: BLANCO ROAD (From Hildebrand to Jackson Keller)
PROJECT NO.: 04-00004 (ADDITIVE ALTERNATE 1)

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
1	854			Sanitary Sewer Laterals	LF	235			8
1	854A			One-Way Sanitary Sewer Clean-out	EA	10			9
1	858			Concrete Encasement, Cradles, Saddles & Collars	CY	4.8			10
1	860			Vertical Stacks	VF	0.0			11
1	864			Bypass Pumping	LS	1			12
1	866			Post-Construction Sanitary Sewer Main Television Inspection (8"-15" Main)	LF	110.13			13
1	866			Pre-Construction Sanitary Sewer Main Television Inspection (8"-15" Main)	LF	188.13			14
1	110.2.7			TRANSPORTATION TO DISPOSAL FACILITY (SAWS SEWER)	CY	5			15
1	110.2.15			LANDFILL DISPOSAL (SAWS SEWER)	CY	5			16
							Total SAWS Sanitary Sewer Additive Alternate 1 Bid Amount:		

SAWS Water Additive Alternate 1 Bid

1	100			Mobilization	LS	1			1
1	101			Preparation of Right-of-Way	LS	1			2
1	550			Trench Excavation Safety Protection	LF	3,639			3
1	818			6" PVC Waterline (Restrained)	LF	30			4
1	818			8" PVC Waterline (Restrained)	LF	910			5
1	818			12" PVC Waterline (Restrained)	LF	2,699			6
1	824			Relay 3/4" Short Service	EA	20			7
1	824			Relay 3/4" Long Service	EA	13			8
1	824			Relay 1" Short Service	EA	1			9
1	824			Relay 1" Long Service	EA	4			10
1	824			Relay 2" Short Service	EA	2			11
1	824			Relay 2" Long Service	EA	1			12
1	824			New 3/4" Unmetered Short Service	EA	2			13
1	824.5			Customer Shut-Off Valve	EA	27			14
1	828			8" Gate Valve	EA	10			15
1	828			12" Gate Valve	EA	9			16
1	833			Existing Meter and New Meter Box Relocation	EA	41			17
1	833			Meter Box	EA	43			18
1	834			Fire Hydrant	EA	7			19
1	836			Pipe Fittings, All Sizes and Types	TON	13.10			20
1	840			6" Water Tie-ins	EA	6			21
1	840			8" Water Tie-ins	EA	4			22
1	840			12" Water Tie-ins	EA	3			23
1	841			Hydrostatic Testing	EA	8			24
1	844			2" Blowoff, Temporary	EA	11			25
1	846			1" Air Release Assemblies	EA	8			26
1	856.2			8" Carrier Pipe for Jacking, Boring, Tunneling	LF	40			27
1	856.3			Casing or Liner 24"	LF	40			28
1	3000.14			Removal, Transp and Disposal of AC Pipe	LS	1			29
1	3000.15			Asbestos Abatement Work Plan	LS	1			30
1	110.2.6			TRANSPORTATION TO DISPOSAL FACILITY (SAWS WATER)	CY	500			31
1	110.2.14			LANDFILL DISPOSAL (SAWS WATER)	CY	500			32
							Total SAWS Water Additive Alternate 1 Bid Amount:		

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: BLANCO ROAD (From Hildebrand to Jackson Keller)
PROJECT NO.: 04-00004 (ADDITIVE ALTERNATE 1)

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO.	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
CPS Energy Gas Additive Alternate 1 Bid									
NOTE A:	For each of the items below, the Contractor's work is to include: trenching, joining, testing, coating steel, connecting new pipe to existing pipe and all necessary fittings for tie-ins such as, stopper fittings and 3-way stopper tees, sand padding, backfilling and compacting to consistency of original soil, installing all necessary cathodic protection devices such as CPTLB's and anodes, replacing paving, curbs, and sidewalks removed or damaged during construction, and cleanup as may be necessary in each instance.								
NOTE B:	Trenching is considered to be the normal method of service installation and is required on all service adjustments. A gas service can be rerun by INSERTION, when the old service is PULLED from the riser to one foot inside the property line, ONLY at the discretion of the CPS Inspector.								
NOTE C:	Bid quantities shown are estimates by CPS. Per foot prices shall be applied to the actual distance measured along the top of the trench or the actual length of the bore, as applicable.								
NOTE D:	Unit prices shall include insurance costs. CPS' insurance requirements are specified in Exhibit GAS-1.								
1	1			Rerun and Lower Gas Service Off New Main (Main to 1 Ft. Inside Property Line), Sizes 1/2" thru 4" (including replacing riser if necessary).					
				LONG SIDE	1 EA	3			1
1	2			Rerun and Lower Gas Service Off New Main to Meter, Sizes 1/2" thru 4" (including replacing riser if necessary).					
				SHORT SIDE	1 EA	5			2
				LONG SIDE	1 EA	5			3
1	3			Install Gas Main or Casing (Distance As Measured Along the Top of Trench)					
				2" PLASTIC PIPE AND TRACER WIRE	1 FT	1187			4
The COST to abandon the existing main(s) is not an ADDITIONAL item and is to be included in the Unit Price(s) for this item.									
Total CPS Energy Gas Additive Alternate 1 Bid Amount:									

_____ certifies that the unit prices shown on this complete computer print-out for all of the bid items and the alternates contained in this proposal are the unit prices intended and that its bid will be tabulated using these unit prices and no other information from this print-out.

_____ Acknowledged and agrees that the total bid amount shown will be read as its total bid and further agrees that the official total bid amount will be determined by multiplying the unit bid prices shown in this print-out by the respective estimated quantities shown in the proposal and then totaling all of the extended amounts. _____ agrees to the terms, conditions, and requirements of the bidder's bid proposal.

Signed: _____ Date: _____

Title: _____

ESTIMATED STREET AND DRAINAGE QUANTITIES

ITEM #	DESCRIPTION	UNIT	ESTIMATED QUANTITIES	FINAL QUANTITIES	ITEM #	DESCRIPTION	UNIT	ESTIMATED QUANTITIES	FINAL QUANTITIES
	COSA ITEMS					COSA ITEMS			
100.1	MOBILIZATION	LS	1		531.06	R2-1 SPEED LIMIT (24"x30")	EA	6	
100.2	INSURANCE AND BOND	LS	1		531.21	R7-1 NO PARKING ANYTIME (18"x24")(HIGH DENSITY)	EA	2	
101.1	PREPARING RIGHT OF WAY	LS	1		531.22	R7-18 NO PARKING THIS SIDE THIS BLOCK (18"x24")(HIGH DENSITY)	EA	1	
104.1	STREET EXCAVATION	CY	15674		531.24	R9-3A PEDESTRIAN CROSSING PROHIBITED (18"x18")(HIGH DENSITY)	EA	1	
106.1	BOX CULVERT EXCAVATION & BACKFILL	CY	6783		531.57	9 INCH STREET NAME BLOCK NUMBERS (VARIES X 9")	EA	54	
107.1	EMBANKMENT (FINAL)(DENS CONT)(TY B)	CY	98		531.59	SPECIAL SIGN (HIGH DENSITY)	EA	7	
108.1	LIME TREAT. SUBGRADE (6" COMPACTED DEPTH)	SY	26698		531.86	R9-3B USE CROSSWALK (18"x12")(HIGH INTENSITY)	EA	1	
108.2	LIME	TON	481		531.87	R10-1 CROSS ONLY ON PED SIGNAL. (9"x12")(HIGH INTENSITY)	EA	12	
200.1	FLEXIBLE BASE (6" COMPACTED DEPTH)(TY C)	SY	75		535.01	4 INCH WIDE YELLOW LINE	LF	5625	
203.1	TACK COAT	GAL	19		535.02	4 INCH WIDE WHITE LINE	LF	1800	
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (6" COMP. DEPTH)	SY	657		535.04	8 INCH WIDE WHITE LINE	LF	745	
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (8.5" COMP. DEPTH)	SY	26698		535.07	24 INCH WIDE WHITE LINE	LF	940	
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (12" COMP. DEPTH)	SY	501		535.09	LEFT WHITE ARROW	EA	8	
205.2	HOT MIX ASPHALTIC PAVEMENT, TY B (7.5" COMPACTED DEPTH)	SY	175		535.12	WORD "ONLY"	EA	3	
205.3	HOT MIX ASPHALTIC PAVEMENT, TYPE C (2" COMP. DEPTH)	SY	24887		535.22	6 INCH BROKEN WHITE LINE	LF	60	
205.4	HOT MIX ASPHALTIC PAVEMENT, TY D (2.5" COMPACTED DEPTH)	SY	191		535.3	24 INCH WIDE YELLOW LINE	LF	193	
209.1	CONCRETE PAVEMENT (10" DEPTH)(BUS PAD)	SY	1665		535.31	18 INCH WHITE YIELD TRIANGLE	EA	20	
230.1	FLEXIBLE PAVEMENT FULL-DEPTH REPAIR (6" COMP. DEPTH)	SY	687		535.32	YELLOW MEDIAN NOSE	EA	1	
230.2	CONCRETE PAVEMENT FULL-DEPTH REPAIR (6" COMP. DEPTH)	SY	144		537.1	TRAFFIC BUTTON (TYPE W)	EA	2434	
234.1	BASE REINFORCEMENT TX-5	SY	26698		537.2	TRAFFIC BUTTON (TYPE Y)	EA	3262	
260	ULTRA-THIN BONDED HOT MIX WEARING COURSE (NOVACHIP SURFACE TREATMENT)	SY	24887		537.6	PAVEMENT MARKER (TYPE I-C)	EA	204	
308.1	DRILLED SHAFTS (24")	LF	28.5		537.8	PAVEMENT MARKER (TYPE II A-A)	EA	1326	
308.1	DRILLED SHAFTS (30")	LF	11.3		537.9	PAVEMENT MARKER (TYPE II C-R)	EA	809	
308.1	DRILLED SHAFTS (36")	LF	66		540.06	CONSTRUCTION EXITS (INSTALL/REMOVE)	SY	390	
309.1	PRECAST CONCRETE CULVERT (3X3)	LF	61.29		540.07	CONSTRUCTION PERIMETER FENCE	LF	11630	
309.1	PRECAST CONCRETE CULVERT (4X3)	LF	171.1		540.1	CURB INLET GRAVEL FILTERS	LF	980	
309.1	PRECAST CONCRETE CULVERT (6X5)	LF	1051.86		550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	4180.1	
401.1	REINFORCED CONCRETE PIPE (24") CLASS III	LF	1004.75		552.10	REMOVING AND RELOCATING IRRIGATION SYSTEMS	LF	300	
401.1	REINFORCED CONCRETE PIPE (30") CLASS III	LF	592.7		615.1	TRAFFIC SIGNAL CONTROLLER ASSEMBLY (TYPE 332 CABINET)	EA	2	
401.1	REINFORCED CONCRETE PIPE (36") CLASS III	LF	281.76		618.1	CONDUIT (2 INCH/PVC SCHEDULE 40)	LF	3404	
401.1	REINFORCED CONCRETE PIPE (42") CLASS III	LF	234.47		618.2	CONDUIT (3 INCH / PVC SCHEDULE 40)	LF	1054	
401.1	REINFORCED CONCRETE PIPE (48") CLASS III	LF	249.1		620.1	ELECTRICAL CONDUCTORS (NO. 6) (BARE)	LF	46	
401.1	REINFORCED CONCRETE PIPE (60") CLASS III	LF	521.65		620.2	ELECTRICAL CONDUCTORS (NO. 8) (BARE)	LF	708	
403.1	JUNCTION BOX 4'X4'X4'	EA	9		620.3	ELECTRICAL CONDUCTORS (NO. 6) (INSULATED)	LF	152	
403.3	JUNCTION BOX 6'X6'X6'	EA	6		624.8	GROUND BOXES TYPE D (162922) W/ APRON	EA	26	
403.4	JUNCTION BOX 7'X7'X7'	EA	3		628.1	ELECTRICAL SERVICES	EA	2	
403.5	JUNCTION BOX 8'X8'X8'	EA	1		633.1	BATTERY BACKUP FOR TRAFFIC SIGNAL	EA	2	
403.7	INLET (TY II)	EA	8		655.1	TYPE 332 CONTROLLER FOUNDATION	EA	2	
403.09	INLET (TY III)	EA	7		680.2	INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM)	EA	2	
403.11	INLET (TY V)	EA	6		681.1	TEMP TRAFFIC SIGNAL (PER INTERSECTION)	EA	2	
403.15	TY W-5	EA	1		682.10	INS VEH SIG SECTION W/BACK PLATE (12 INCH)(3 SECONDS)	EA	14	
403.21	TY X-1	EA	2		682.23	INS VEH SIG SECTION W/BACK PLATE (12 INCH)(4 SECONDS)	EA	4	
403.22	TY X-2	EA	2		686.282B	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (2 ARM 28-28)(ILSN)	EA	1	
403.23	TY X-3	EA	1		682.4	INSTALL PEDESTRIAN SIGNAL SECTION (12 IN) LED (2 IND)	EA	12	
403.24	TY X-4	EA	5		684.1	TRAFFIC SIGNALCABLES (TYPE A)(14AWG)(CONDUCTOR NO.4)	LF	906	
403.25	TY X-5	EA	2		684.1	TRAFFIC SIGNALCABLES (TYPE A)(14AWG)(CONDUCTOR NO.9)	LF	2478	
403.26	TY X-6	EA	4		686.51	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 36")(ILSN)	EA	1	
403.27	MANHOLE VERTICAL STACK	EA	9		686.61	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 40")(ILSN)	EA	4	
406.2	JACKING OR TUNNELING BOX CULVERT (6' X 5')	LF	25		687.1	PEDESTAL POLE ASSEMBLY	EA	5	
410.2	GRAVEL SUBGRADE FILLER	CY	607.6		688.2	PEDESTRIAN DETECTORS (2 INCH PUSH BUTTON)	EA	12	
413.1	FLOWABLE BACKFILL	CY	1161.2		693.1	INTERNALLY LIGHTED STREET NAME SIGN (LED) (6 FT) (DOUBLE SIDED)	EA	4	
500.1	CONCRETE CURBING	LF	7852		693.2	INTERNALLY LIGHTED STREET NAME SIGN (LED) (8 FT) (DOUBLE SIDED)	EA	2	
502.1	CONCRETE SIDEWALKS	SY	3711		693.3	INTERNALLY LIGHTED STREET NAME SIGN (LED) (6 FT) (SINGLE SIDED)	EA	1	
503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS	SY	65		694.1	VIVDS PROCESSOR UNIT	EA	15	
503.2	PORTLAND CEMENT CONCRETE DRIVEWAYS - COMMERCIAL	SY	3080		694.2	VIVDS CAMERA ASSEMBLY	EA	15	
503.4	ASPHALTIC CONCRETE DRIVEWAY	SY	1039		694.4	VIVDS SET-UP SYSTEM	EA	2	
503.5	GRAVEL DRIVEWAY	SY	9		694.6	VIVDS COMMUNICATION CABLE (COAXIAL)	LF	2022	
504.1	CONCRETE MEDIAN	SY	269		695.3	EMERGENCY PREEMPTION DETECTOR	EA	3	
504.2	CONCRETE DIRECTIONAL ISLAND	SY	121		695.4	EMERGENCY PREEMPTION DETECTOR CABLE	LF	1118	
505.1	CONCRETE RIPRAP (4")	SY	10		801.2	LEVEL IIA PROTECTIVE FENCING	LF	100	
505.1	CONCRETE RIPRAP (5" THICK)	SY	63.3		801.3	LEVEL IIB PROTECTIVE FENCING	LF	23	
506.1	CONCRETE RETAINING WALLS-COMB. TYPE	CY	41		802.2	LEVEL II PRUNING	LS	1	
507.1	CHAIN LINK WIRE FENCE (4' HIGH)	LF	92		9506	REMOVAL AND REPLACEMENT OF WROUGHT IRON FENCE	LF	50	
507.2	CHAIN LINK WIRE FENCE (6' HIGH)	LF	152		9507	REMOVING AND REPLACING PIPE RAIL FENCE	LF	50	
507.3	CHAIN LINK WIRE FENCE (8' HIGH)	LF	50		9508.1	REMOVAL AND REPLACEMENT OF WOOD FENCE	LF	50	
507.4	GATES-PEDESTRIAN	EA	2		9508.2	REMOVAL AND REPLACEMENT OF WOOD GATES	EA	2	
508.1	RELOCATING WIRE FENCE	LF	50		110.2.1	TRANSPORTATION TO DISPOSAL FACILITY (COSA)	CY	3000	
516.1	BURMUDA SODDING	SY	692		110.2.4	TRANSPORTATION TO DISPOSAL FACILITY (CPSI)	CY	240	
516.2	ST. AUGUSTINE SODDING	SY	692		110.2.9	LANDFILL DISPOSAL (COSA)	CY	3000	
522.1	SIDEWALK PIPE RAILING	LF	10		110.2.12	LANDFILL DISPOSAL (CPS)	CY	240	
523.1	ADJUSTING VEHICULAR GATES	OPENING	2		110.4.1	REMOVAL, STORAGE AND TREATMENT OF IMPACTED GROUNDWATER	GAL	25000	
523.3	ADJUSTING PEDESTRIAN GATES	EA	2		110.4.2	DISPOSAL OF IMPACTED GROUNDWATER	GAL	25000	
525.1	CONCRETE TRAFFIC BARRIER (PORTABLE)	LF	3060		110.5.1	DEVELOPMENT OF A SITE SPECIFIC HEALTH AND SAFETY PLAN	LS	1	
530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1		110.6.1	DEVELOPMENT OF THE WASTE MANAGEMENT PLAN	LS	1	
531.03	R1-1 STOP (30")(HIGH DENSITY)	EA	14		110.6.2	ENVIRONMENTAL OVERSIGHT IMPLEMENTATION	LS	1	
531.04	R1-2 YIELD (36")(HIGH DENSITY)	EA	2		0662 2001	WK ZN PAV MRK NON-REMOV (W) 4" (BRK)	LF	1780	
					0662 2012	WK ZN PAV MRK NON-REMOV (W) 8" (SLD)	LF	745	
					0662 2032	WK ZN PAV MRK NON-REMOV (Y) 4" (SLD)	LF	5587	
					0662 2079	WK ZN PAV MRK REMOV (W) 24" (SLD)	LF	492	
					0662 2113	WORK ZN PAV MRK SHT TERM (TAB) TY W	EA	450	
					0662 2114	WORK ZN PAV MRK SHT TERM (TAB) TY Y	EA	1050	
						OFF-DUTY POLICE OFFICERS FOR TRAFFIC CONTROL	LS	1	
						SITE WORK AND FOUNDATION FOR PUBLIC ART	LS	1	



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REGISTRATION #F-2214

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS
MANAGEMENT SERVICES
DEPARTMENT

BLANCO ROAD SEG 3 BASE BID

ESTIMATE & QUANTITIES
BLANCO ROAD SEG 3
ADDENDUM NO. 4

SHEET 1 OF 1

SUBMITTAL	PROJECT NUMBER	DATE	
FINAL	40-00004	2/24/2012	
DRWN BY:	DSGN BY:	CHKD BY:	SHEET NO.
			11A

ITEM	308.1	308.1	308.1	531.11	531.24	531.86	531.87	615.1	618.1	618.2	620.1	620.2	620.3	624.8
STATION / LOCATION	DRILLED SHAFTS (24")	DRILLED SHAFTS (30")	DRILLED SHAFTS (36")	R3-SL LEFT ONLY (30"x36") (HIGH INTENSITY)	R9-3a PEDESTRIAN CROSSING PROHIBITED (18"x18") (HIGH INTENSITY)	R9-3b USE CROSSWALK (18"x12") (HIGH INTENSITY)	R10-1 CROSS ONLY ON PED SIGNAL (9"x12") (HIGH INTENSITY)	TRAFFIC SIGNAL CONTROLLER ASSEMBLY (TYPE 332 CABINET)	CONDUIT (2 INCH / PVC SCHEDULE 40)	CONDUIT (3 INCH / PVC SCHEDULE 40)	ELECTRICAL CONDUCTORS (NO. 8) (BARE)	ELECTRICAL CONDUCTORS (NO. 8) (BARE)	ELECTRICAL CONDUCTORS (NO. 8) (INSULATED)	GROUND BOXES TYPE D (162922) WITH APRON
	LF	LF	LF	EA	EA	EA	EA	EA	LF	LF	LF	LF	LF	EA
BLANCO RD AND BASSE RD	22.8	0.0	52.8	0	0	0	8	1	84	790	30	520	120	4
BLANCO RD AND WEIZMANN ST	5.7	11.3	13.2	0	1	1	4	1	40	264	16	188	32	3
PROJECT TOTALS	28.5	11.3	66.0	0	1	1	12	2	124	1054	46	708	152	7

ITEM	628.1	633.1	655.1	660.2	681.1	682.10	682.23	682.3	682.4	684.1	684.1	685.4	686.30	686.31	686.41
STATION / LOCATION	ELECTRICAL SERVICES	BATTERY BACKUP FOR TRAFFIC SIGNAL	TYPE 332 CONTROLLER FOUNDATION	INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM)	TEMP TRAFFIC SIGNAL (PER INTERSECTION)	INS VEH SIG SECTION W/BACK PLATE (12 INCH)(3 SECONDS)	INS VEH SIG SECTION W/BACK PLATE (12 INCH)(4 SECONDS)	INS VEH SIG SECTION W/BACK PLATE (12 INCH)(5 SECONDS)	INSTALL PEDESTRIAN SIGNAL SECTIONS (12 IN) LED (2 IND)	TRAFFIC SIGNAL CABLES (TYPE A)(14AWG)(CONDUCTOR NO.4)	TRAFFIC SIGNAL CABLES (TYPE A)(14AWG)(CONDUCTOR NO.9)	SOLAR POWERED (PHOTOVOLTAIC) SCHOOL ZONE FLASHER ASSEMBLY	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 28")	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 28")(LSN)	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 32")(LSN)
	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	EA	EA	EA	EA
BLANCO RD AND BASSE RD	1	1	1	1	1	8	4	0	8	577	1847	0	0	0	0
BLANCO RD AND WEIZMANN ST	1	1	1	1	1	6	0	0	4	329	631	0	0	0	0
PROJECT TOTALS	2	2	2	2	2	14	4	0	12	906	2478	0	0	0	0

ITEM	686.51	686.61	686.280B	686.282B	687.1	688.2	693.3	693.1	693.2	694.1	694.2	694.4	694.6	695.3	695.4
STATION / LOCATION	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 36")(LSN)	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 40")(LSN)	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (2 ARM 28-20")(LSN)	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (2 ARM 28-28")(LSN)	PEDESTAL POLE ASSEMBLY	PEDESTRIAN DETECTORS (2 INCH PUSH BUTTON)	ILSN SIGN (LED) (6 FT) (SINGLE SIDED)	ILSN SIGN (LED) (6 FT) (DOUBLE SIDED)	ILSN SIGN (LED) (8 FT) (DOUBLE SIDED)	VIVDS PROCESSOR UNIT	VIVDS CAMERA ASSEMBLY	VIVDS SET-UP SYSTEM	VIVDS COMMUNICATION CABLE (COAXIAL)	EMERGENCY PREEMPTION DETECTOR	EMERGENCY PREEMPTION DETECTOR CABLE
	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	EA	LF
BLANCO RD AND BASSE RD	0	4	0	0	4	8	0	4	0	9	9	1	1410	2	705
BLANCO RD AND WEIZMANN ST	1	0	0	1	1	4	1	0	2	6	6	1	612	1	413
PROJECT TOTALS	1	4	0	1	5	12	1	4	2	15	15	2	2022	3	1118


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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS
MANAGEMENT SERVICES
DEPARTMENT

BLANCO ROAD SEG 3 BASE BID

TRAFFIC SIGNAL SUMMARY
SEG 3 BASE BID
ADDENDUM NO.4

SHEET 1 OF 1

SUBMITTAL	PROJECT NUMBER	DATE
FINAL	40-00004	2/24/2012
DRWN BY:	DSGN BY:	CHKD BY:

SHEET NO. 20

Segment 3 - Base Bid																												
Drainage Summary																												
Item No.	Sheet No.	Excavation, Trenching and Backfilling*	Box Culvert Excavation & Backfill	Prime Coat	Tack Coat	HMAC, Ty B (4" Compacted Depth)	HMAC, Ty B (6" Compacted Depth)	HMAC, Ty B (7.5" Compacted Depth)	HMAC, Ty D (1.5" Compacted Depth)	HMAC, Ty D (2.5" Compacted Depth)	Metal Beam Guard Rail (Steel Post)	Timber Guard Posts	Concrete Riprap (5" Thick)	Erosion Control Matting	Gravel Subgrade Filler	Flowable Backfill	Trench Excavation Safety Protection	Precast Box Culvert				Reinforced Concrete Pipe Class III						Jacking or Tunneling Box Culvert (6' x 5')
																		3' x 3'	4' x 3'	5' x 3'	6' x 5'	403.1	403.1	403.1	403.1	403.1	403.1	
		CY	CY	GAL	GAL	SY	SY	SY	SY	SY	LF	EA	SY	SY	CY	CY	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	LF	
198		287.4	0	0	0	0	0	0	0	0	0	0	0.0	0	18.0	18.2	220.45	0.00	0.00	0.00	0.00	220.45	0.00	0.00	0.00	0.00	0.00	0
199		302.2	0	0	0	0	0	0	0	0	0	0	0.0	0	25.9	28.3	298.70	0.00	0.00	0.00	0.00	220.78	77.92	0.00	0.00	0.00	0.00	0
200		536.2	0	0	0	0	0	0	0	0	0	0	0.0	0	38.8	47.1	399.58	0.00	0.00	0.00	0.00	91.55	308.03	0.00	0.00	0.00	0.00	0
201		637.0	0	0	0	0	0	0	0	0	0	0	0.0	0	43.7	68.1	427.89	0.00	0.00	0.00	0.00	123.89	34.08	225.15	44.77	0.00	0.00	0
202		1449.2	0	0	0	0	0	0	0	0	0	0	0.0	0	64.4	215.2	433.31	0.00	0.00	0.00	0.00	33.61	19.66	16.52	114.42	249.10	0.00	0
203		1791.5	0	0	0	0	0	0	0	0	0	0	0.0	0	68.1	265.2	370.84	0.00	0.00	0.00	0.00	60.84	0.00	0.00	0.00	0.00	310.00	0
204		1529.4	557	0	0	0	0	0	0	0	0	0	0.0	0	76.3	220.6	415.94	0.00	0.00	0.00	89.85	39.16	0.00	0.00	75.28	0.00	211.65	0
205		29.0	2068	0	0	0	0	0	0	0	0	0	0.0	0	76.3	4.1	408.80	61.29	0.00	0.00	310.00	16.18	0.00	21.33	0.00	0.00	0.00	0
206		112.4	1875	0	0	0	0	0	0	0	0	0	0.0	0	70.5	5.9	377.14	0.00	0.00	0.00	315.00	45.96	16.18	0.00	0.00	0.00	0.00	0
207		41.0	1676	0	19	0	0	175	0	191	0	0	63.3	0	77.4	265.4	393.85	0.00	0.00	0.00	337.01	31.84	0.00	0.00	0.00	0.00	25	
208		152.0	0	0	0	0	0	0	0	0	0	0	0.0	0	16.6	19.0	183.27	0.00	0.00	0.00	0.00	99.44	83.83	0.00	0.00	0.00	0.00	0
209		30.9	607	0	0	0	0	0	0	0	0	0	0.0	0	31.6	4.1	210.31	0.00	171.10	0.00	0.00	21.05	0.00	18.16	0.00	0.00	0.00	0
Total for Base Bid		6898.2	6783	0	19	0	0	175	0	191	0	0	63.3	0	607.6	1161.2	4140.08	61.29	171.10	0.00	1051.86	1004.75	539.70	281.16	234.47	249.10	521.65	25

*For Contractor's Information Only

Segment 3 - Base Bid															
Junction Box and Inlet Summary															
Item No.	Junction Boxes					Curb Inlets			Traffic Inlets						
	403.3	403.3	403.4	403.5	403.27	403.7	403.9	403.11	403.15	403.21	403.22	403.23	403.24	403.25	403.26
Sheet No.	4'x4'x4'	6'x6'x6'	7'x7'x7'	8'x8'x8'	Manhole Vertical Stack	Ty I 10'	Ty III 20'	Ty V 30'	Ty W-5	Ty X-1	Ty X-2	Ty X-3	Ty X-4	Ty X-5	Ty X-6
	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.	EA.
198	1	0	0	0	0	0	0	0	0	1	1	0	0	0	0
199	2	0	0	0	0	0	0	2	0	0	0	0	0	0	0
200	3	0	0	0	0	0	1	1	0	0	0	2	0	0	0
201	1	2	0	0	0	0	2	1	0	0	1	1	0	0	0
202	0	1	1	0	0	0	2	1	0	0	0	0	0	1	0
203	0	0	2	0	0	2	0	0	0	0	0	0	0	0	0
204	0	1	0	1	2	1	1	0	0	0	0	0	2	0	0
205	0	0	0	0	2	0	1	0	1	0	0	0	0	0	1
206	0	0	0	0	4	3	0	0	0	0	0	0	0	0	0
207	0	0	0	0	1	0	0	0	0	1	0	0	0	1	0
208	2	0	0	0	0	2	0	0	0	0	0	0	0	0	1
209	0	2	0	0	0	0	0	1	0	0	1	0	0	0	2
Total for Base Bid	9	6	3	1	9	8	7	6	1	2	2	1	5	2	4



CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS
MANAGEMENT SERVICES
DEPARTMENT

BLANCO ROAD SEG 3 BASE BID

DRAINAGE SUMMARY
 ADDENDUM NO. 4

SHEET 1 OF 1		
SUBMITTAL	PROJECT NUMBER	DATE
100% PS&E		2/24/2012
DRWN BY:	DSGN BY:	CHKD BY:
KG & CG	MJM & GP	ETM & JPS
SHEET NO.		23

TRAFFIC NOTES AND SPECIAL CONDITIONS

- It is the contractor's sole responsibility to see that all traffic control devices are properly installed and maintained at the job site in accordance with the plans, specifications and related industry standards and regulations. These notes, do not, in of themselves, constitute a Traffic Control Plan. In the event that these plans do not include traffic control, or that the Contractor wishes to vary from traffic control included with these plans, he shall submit for review a Traffic Control Plan sealed by a Professional Engineer registered in the State of Texas, including a sign and barricade plan conforming to the requirements of the Texas Manual on Uniform Traffic Control Devices. The City's construction observer / inspector (COI) and the traffic engineering representative will only be responsible to inspect the traffic control devices being deployed. If, in the opinion of the traffic engineering representative and the COI, the traffic control devices do not conform to established standards or are incorrectly placed or are insufficient in quantity to protect the general public, the COI shall have the option to stop construction operations at no expense to the City until such time as the conditions are corrected by the contractor.
- Prior to starting construction, the contractor shall contact the City of San Antonio Traffic Operations Section at 207-7765 48 hours in advance for a traffic sign and traffic signal inventory. Prior to completion of the contract and removal of the barricades, the contractor shall again contact the Traffic Operations Section. The barricades shall not be removed until all applicable permanent traffic signs and signals are in place.
- It is the contractor's responsibility to obtain and maintain temporary stop signs and all other traffic control devices required to protect the general public. If the City of San Antonio has removed permanent stop signs, the contractor shall request that the signs be returned to the construction site to be reinstalled by the contractor. All permanent signs or traffic control devices missing or damaged upon completion of construction shall be replaced at the contractor's expense.
- The contractor must contact the City's COI 48 hours in advance (not including weekends) of any minor street closure. It will be the contractor's responsibility to advise the COI 10 days in advance of an arterial total street closure. This much time is necessary to install advisory signs and give the motorists a minimum of 7 days notice of the street closure. The COI after being notified will contact the traffic engineering office to make the necessary arrangements.
- As work progresses, location of temporary traffic control devices will be adjusted and modified, as necessary by the contractor at contractor's expense.
- If the need arises, additional temporary traffic control devices, special directional devices, and/or business name signs may be ordered by the traffic engineering representative at the contractor's expense.
- Temporary traffic control devices shall conform to the City's "Typical Sign and Barricade Standards" sheets and to the Texas Manual on Uniform Traffic Control Devices.
- The contractor must maintain all streets within project limits open to through traffic by repairing trenches, potholes, leveling up with asphalt, etc. at no direct payment, with the cost to be included in other items.

This includes the use of Ty C HMAc to level up around raised utility valves and manholes at the direction of the Engineer. In these instances, the roadway will be leveled to the elevation of the valve or manhole a minimum of 2' on all sides, and transitioned at a maximum slope of 20:1 in all directions.
- The contractor shall be responsible for providing suitable access accommodations for school children and pedestrians.
- The contractor shall provide access for delivery of mail by the U.S. Postal Service.
- The contractor shall provide for access to residences and all businesses at all times within all the phases of the work.
- When construction work necessitates the utilization of vehicle paths other than the lanes normally used, traffic control markings no longer applicable shall be removed and approved temporary pavement markings and signs installed in accordance with Part VI-D of the Texas Manual on Uniform Traffic Control Devices.

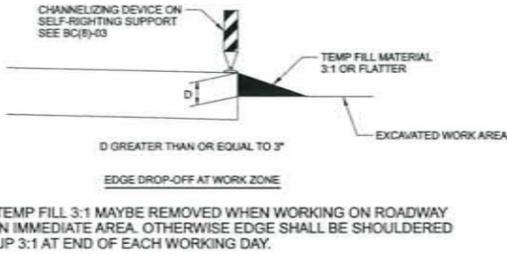
After construction is completed and traffic is rerouted back to the original lanes, the traffic control markings and/or raised buttons that were originally removed from the existing pavement must be replaced. In addition, temporary markings must be removed. All of this is to be done at no direct payment; cost should be included in other items.
- Permanent pavement markings shall be applied prior to the opening of the completed street to traffic. Temporary additional short-term expendable pavement markings may be provided prior to the application of permanent markings in minimum lengths of 36', or raised pavement markings to delineate continuity until such time as standard pavement markings in normal lengths can be placed at no direct payment.
- All temporary traffic control devices, etc. shall be provided by the contractor without direct payment, unless otherwise noted or stated.
- The COI will monitor the contractor's traffic control devices and will be responsible to furnish all residents and businesses with an information flyer on all jobs during construction.
- Any damage to permanent traffic signals, the controller box, loops or conduits during or upon completion of the project shall be repaired or replaced at the contractor's expense. The decision to repair, as opposed to replace, the damaged equipment shall be made by the City's Traffic Engineer.
- The contractor is responsible for repairing all streets outside of the project limits which are damaged due to construction activities. The replaced section must be approved by the City's Street Engineer. There will be no direct payment for this work. The cost is to be included in other items.

TRAFFIC NOTES AND SPECIAL CONDITIONS

- Off-duty police officers will be required as directed by the Traffic Engineer at no direct payment, cost to be included in other Bid Items. This will be a requirement where two-way traffic is to be maintained.
- If split construction is shown, then the sanitary sewer shall be completed prior to beginning street and drainage construction, and traffic shall be maintained or detoured as directed by the Traffic Engineer. There will be no additional payment for the maintaining of traffic or detours.
- The contractor shall provide the city an emergency telephone number for evenings, weekends, and holidays by the first working day of the project. This telephone number must be a commercial answering service. The answering service must be able to contact the contractor and have the contractor respond to the City staff within two hours of the initial contact.
- The contractor shall maintain continuous access to all intersecting streets unless otherwise shown on these plans. When continuous access is scheduled to be blocked, the contractor shall contact the dispatchers for the Fire Department and EMS at (210) 227-8341 and the Police Department at (210) 207-2257, to apprise them of the pending street closure at least forty-eight hours in advance. If the closure falls along a bus route, the contractor shall also contact VIA at (210) 362-5220.
- The contractor shall maintain either the existing or temporary street name signs at each intersection onsite throughout construction. If the existing street name signs are used, they must be maintained in the condition encountered prior to the beginning of construction, and then be turned in to the City Inspector at the end of the project. If temporary signs are used during construction, they shall have a minimum of 4-inch letters, and may be fabricated with construction zone material (black legend on orange background, using plywood substrate, etc.).
- During normal school hours the contractor may only work from 9:00 AM to 2:30 PM in the vicinity of the school. If any work is commenced in this area contractor shall restore area for safe driving conditions.

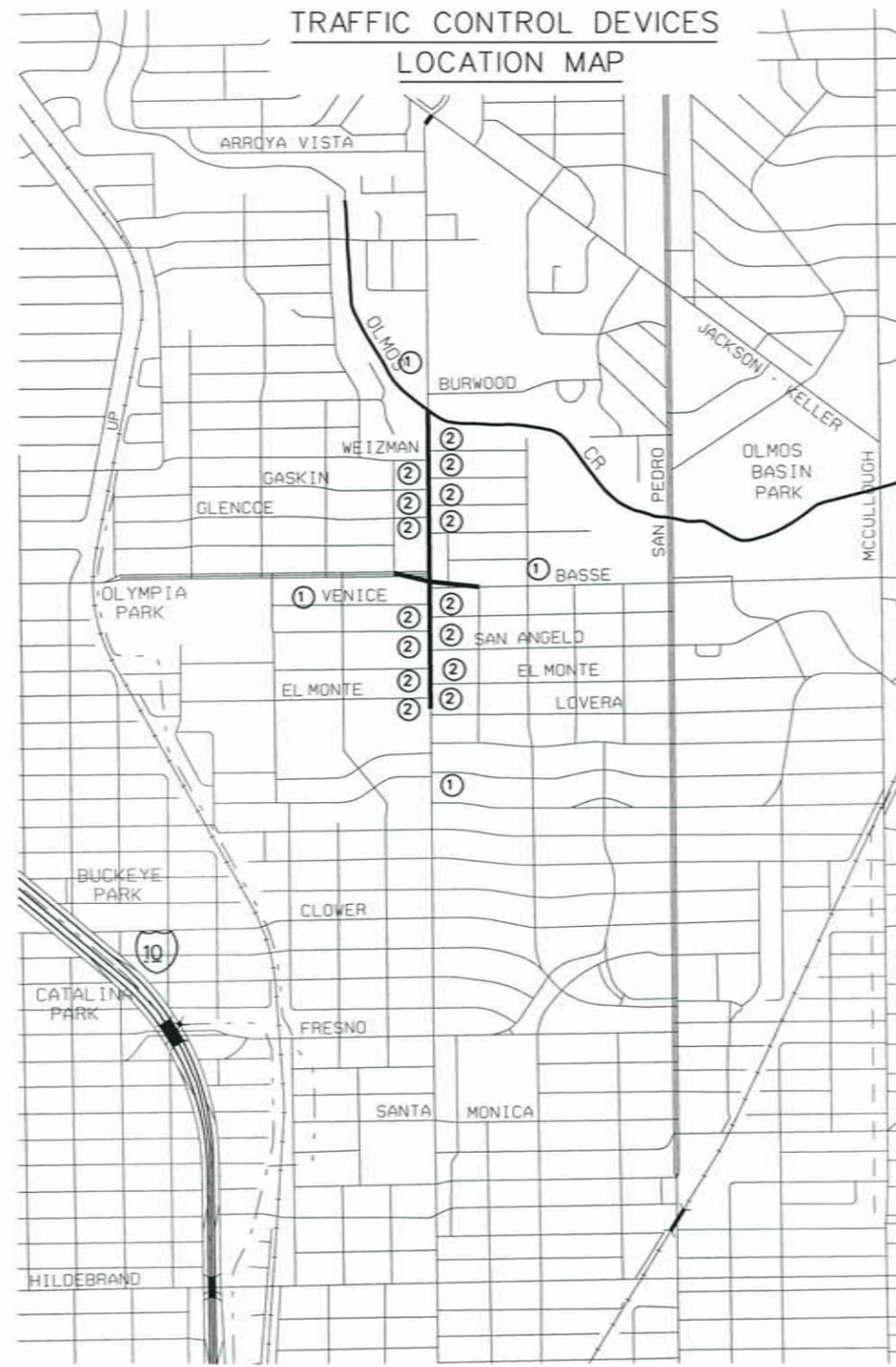
NOTE:

- Certain signs must be used in conjunction with other signs. Example: "FLAGGER AHEAD" must have a "BE PREPARED TO STOP."
- Barricades and warning signs on this sheet are minimal construction zone signing. Additional barricades, warning signs, arrow panels, cones, etc. in accordance with BC(1) thru (12) and the Texas MUTCD may be required in areas of actual construction.
- See TCP sheets for additional signing requirements. Applicable TCP sheets for this project are: TCP (1-2)-98, (2-4)-03, (2-5)-03, (3-1)-98, (3-3)-98, (7-1)-98



TRAFFIC CONTROL DEVICES

LOCATION MAP



① 4 PROJECT SIGNS

NOT TO SCALE



Kyle Gass
KYLE GASS, P.E.
2/24/2012

CFC DON DURDEN, INC.
d.b.a. CIVIL ENGINEERING CONSULTANTS
11550 IH 10 WEST, SUITE 395
SAN ANTONIO, TEXAS 78230-1037
TEL: (210) 841-9999
FAX: (210) 841-8440
REGISTRATION #F-2214

CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS
MANAGEMENT SERVICES
DEPARTMENT

BLANCO ROAD SEG 3 BASE BID
SCHEDULE OF TRAFFIC CONTROL
AND ADVANCED WARNING
DEVICES
ADDENDUM NO. 4

SHEET 1 OF 1

SUBMITTAL	PROJECT NUMBER	DATE
FINAL	40-00004	2/24/2012
DRWN BY:	DSGN BY:	CHKD BY:
		SHEET NO.
		24

SCHEDULE OF TRAFFIC CONTROL DEVICES

LOCATION	USAGE	ROAD WORK AHEAD	NO CENTER STRIPE	COSA PROJECT SIGN	LOOSE GRAVEL	END ROAD WORK	FORM ONE LINE RIGHT/LEFT	UTILITY WORK AHEAD	CHANNELIZING DEVICES	DETOUR AHEAD	ROAD CLOSED AHEAD	LEFT/RIGHT LANE CLOSED	LEFT/RIGHT LANE CLOSED XXX FT	BE PREPARED TO STOP	NARROW LANES AHEAD	SHOULDER DROP OFF	UNEVEN LANES	LANE ENDS MERGE RIGHT/LEFT	ONE LANE ROAD AHEAD	SCW1-4R	SCW1-4L	CW20-7	ECW1-6A	SCW1-8	R4-1	R4-7b	R11-2	(TY 11)	R9-9	SIDEWALK CLOSED
		CW20-10	CW8-12		CW8-7	G20-2a	R20-2R, -2L	CW20-10		CW20-20	CW20-30	CW20-SR, -SL	CW20-SR, -SL + PLAUKE	CW20-7b	CW20-8	CW8-9a	CW8-11	SCW9-2R, -2L	CW20-40											
1	APPROACHES TO PROJECT	X		X		X																							X	
2	SIDE STREET APPROACHES	X				X																								
X	AS DIRECTED		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		X

FOR LOCATION OF UNDERGROUND ELECTRIC AND GAS FACILITIES, TELEPHONE CABLES, AND TIME WARNER CABLE TV CALL TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-545-6005 48 HOURS PRIOR BEFORE BEGINNING ANY EXCAVATION.

DUE TO FEDERAL REGULATION TITLE 49, PART 192.181, C.P.S. MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

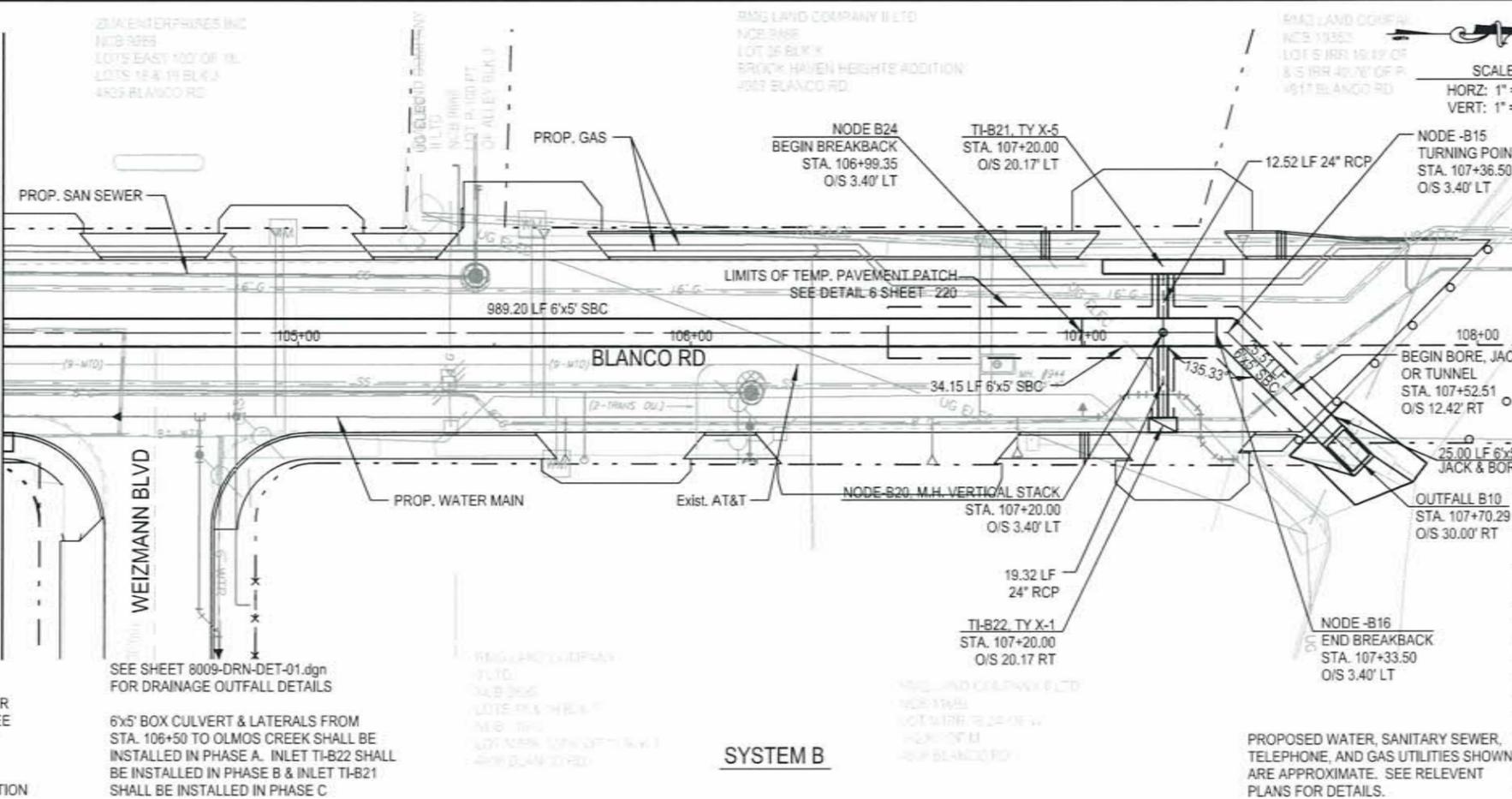
THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING C.P.S. OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES IF ADJACENT TO WORK AREAS.

THE CONTRACTOR WILL HAVE RESPONSIBILITY TO PROTECT AND SUPPORT CABLE TV AND TELEPHONE COMPANY PLANT DURING CONSTRUCTION.

THE EXISTENCE AND LOCATION OF UTILITIES INDICATED ON THE PLAN ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED TO BE ACCURATE.

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) IN ORDER TO DEVELOP THE CONTRACTOR'S PLANS TO IMPLEMENT THE PROJECT DESCRIBED IN THE CONTRACT COUMDNTS. THE CONTRACTOR'S PLANS SHALL PROVIDE FOR ADEQUATE TRENCH SAFETY SYSTEMS THAT COMPLY WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL DEVELOP AND IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION

MATCHLINE STA 104+25.00



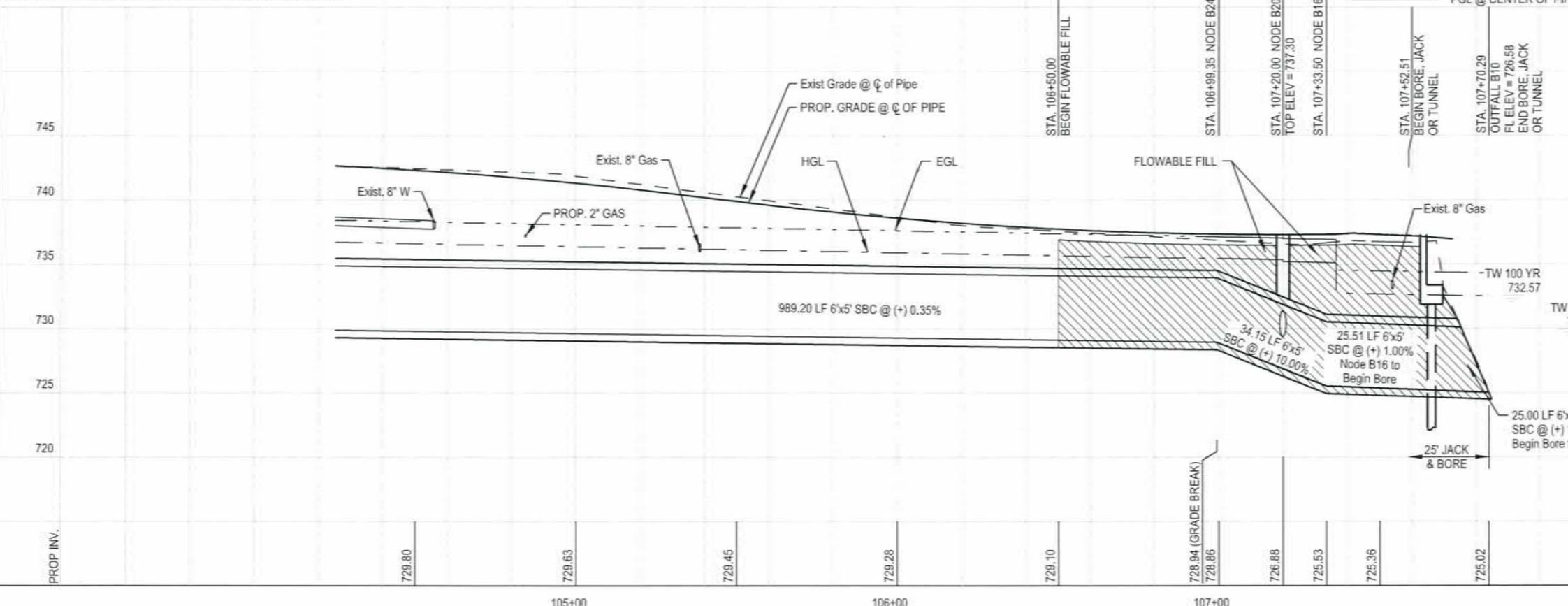
PLAN VIEW LEGEND

- CI = CURB INLET
- JB = JUNCTION BOX
- MH = MANHOLE
- TI = TRAFFIC INLET
- PROPOSED STRUCTURE
- PROPOSED CURB
- - - EXISTING EDGE OF ROADWAY
- - - EXISTING FEATURES
- - - EXISTING RIGHT OF WAY
- - - PROPOSED RIGHT OF WAY
- UNDGR TELEPHONE
- GAS LINE
- SANITARY SEWER LINE
- WATER LINE
- UNDGR FIBER OPTIC
- - - FENCE

SCALE
HORIZ: 1" = 40'
VERT: 1" = 10'

FINAL	EST	UNIT	DESCRIPTION
	1676	CY	Box Culvert Excavation & Backfill
	19	GAL	Tack Coat
	191	SY	Hot Mix Asphaltic Pavement, Ty D (2.5" Compacted Depth)
	175	SY	Hot Mix Asphaltic Pavement, Ty B (7.5" Compacted Depth)
	337.01	LF	Precast Concrete Culvert (6'x5')
	41.0	CY	Excavation, Trenching and Backfilling*
	31.84	LF	Reinforced Concrete Pipe (24") Class III
	1	EA	Manhole Vertical Stack
	1	EA	Ty X-1
	1	EA	Ty X-5
	77.4	CY	Gravel Subgrade Filler
	265.4	CY	Flowable Backfill
	63.3	SY	Concrete Riprap (5" Thick)
	393.85	LF	Trench Excavation Safety Protection
	25.00	LF	Jacking or Tunneling Box Culvert (6' x 5')

NOTE: CONTRACTOR SHALL VERIFY LOCATIONS OF BRIDGE PIERS PRIOR TO CONSTRUCTION TO CONFIRM THAT BRIDGE PIERS WHERE INSTALLED AS PER BRIDGE PLAN OF RECORDS AND TO CONFIRM THAT 6' X 5' SBC CAN BE CONSTRUCTED AS SHOWN.



PROFILE VIEW LEGEND

- PROPOSED STRUCTURE
- - - EXISTING CENTERLINE
- PGL @ CENTER OF PIPE

SCALE
1" = 40'

*NOT PAID FOR DIRECTLY, SUBSIDIARY TO VARIOUS BID ITEMS

STATE OF TEXAS
ERNEST T. MAESTAS
52938
REGISTERED PROFESSIONAL ENGINEER
2/24/2012

MAESTAS & ASSOCIATES, INC.
11550 IH 10 WEST, STE. 320 SAN ANTONIO, TX 78230
(210) 366-1988 (210) 366-1980 fax TBPE No.: F-333

**CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS
MANAGEMENT SERVICES
DEPARTMENT**

**BLANCO ROAD SEG 3 BASE BID
DRAINAGE PLAN AND PROFILE
STORM SYSTEM "B"
ADDENDUM NO. 4**

SHEET 10 OF 12

SUBMITTAL	PROJECT NUMBER	DATE
100% PS&E		2/24/2012
DRWN BY:	DSGN BY:	CHKD BY:
KG & CG	MJM & GP	ETM & JPS
SHEET NO.		207

	DESCRIPTION	UNIT	QTY
308.1	DRILLED SHAFTS (24")	LF	22.8
308.1	DRILLED SHAFTS (36")	LF	52.8
531.9	R10-1 CROSS ONLY ON PED SIGNAL (9"x12")(HIGH INTENSITY)	EA	8
615.1	TRAFFIC SIGNAL CONTROLLER ASSEMBLY (TYPE 332 CABINET)	EA	1
618.1	CONDUIT (2 INCH / PVC SCHEDULE 40)	LF	84
618.2	CONDUIT (3 INCH / PVC SCHEDULE 40)	LF	790
620.1	ELECTRICAL CONDUCTORS (NO. 6) (BARE)	LF	30
620.2	ELECTRICAL CONDUCTORS (NO. 8) (BARE)	LF	520
620.3	ELECTRICAL CONDUCTORS (NO. 6) (INSULATED)	LF	120
624.8	GROUND BOXES TY D (162922) WITH APRON	EA	4
628.1	ELECTRICAL SERVICES	EA	1
633.1	BATTERY BACKUP FOR TRAFFIC SIGNAL	EA	1
655.1	TYPE 332 CONTROLLER FOUNDATION	EA	1
680.2	INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM)	EA	1
681.1	TEMP TRAFFIC SIGNAL (PER INTERSECTION)	EA	1
682.1	INS VEH SIG SECTION W/BACK PLATE (12 INCH)(3 SECONDS)	EA	8
682.2	INS VEH SIG SECTION W/BACK PLATE (12 INCH)(4 SECONDS)	EA	4
682.4	INSTALL PEDESTRIAN SIGNAL SECTIONS (12 IN) LED (2 IND)	EA	8
684.1	TRAFFIC SIGNALCABLES (TYPE A)(14AWG)(CONDUCTOR NO.4)	LF	577
684.1	TRAFFIC SIGNALCABLES (TYPE A)(14AWG)(CONDUCTOR NO.9)	LF	1847
686.6	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 40")(ILSN)	EA	4
687.1	PEDESTAL POLE ASSEMBLY	EA	4
688.2	PEDESTRIAN DETECTORS (2 INCH PUSH BUTTON)	EA	8
693.1	ILSN SIGN (LED) (6 FT) (DOUBLE SIDED)	EA	4
694.1	VIVDS PROCESSOR UNIT	EA	9
694.2	VIVDS CAMERA ASSEMBLY	EA	9
694.4	VIVDS SET-UP SYSTEM	EA	1
694.6	VIVDS COMMUNICATION CABLE (COAXIAL)	LF	1410
695.3	EMERGENCY PREEMPTION DETECTOR	EA	2
695.4	EMERGENCY PREEMPTION DETECTOR CABLE	LF	705

WIRELESS COMMUNICATION EQUIPMENT SHALL BE SUBSIDIARY TO ITEM 680

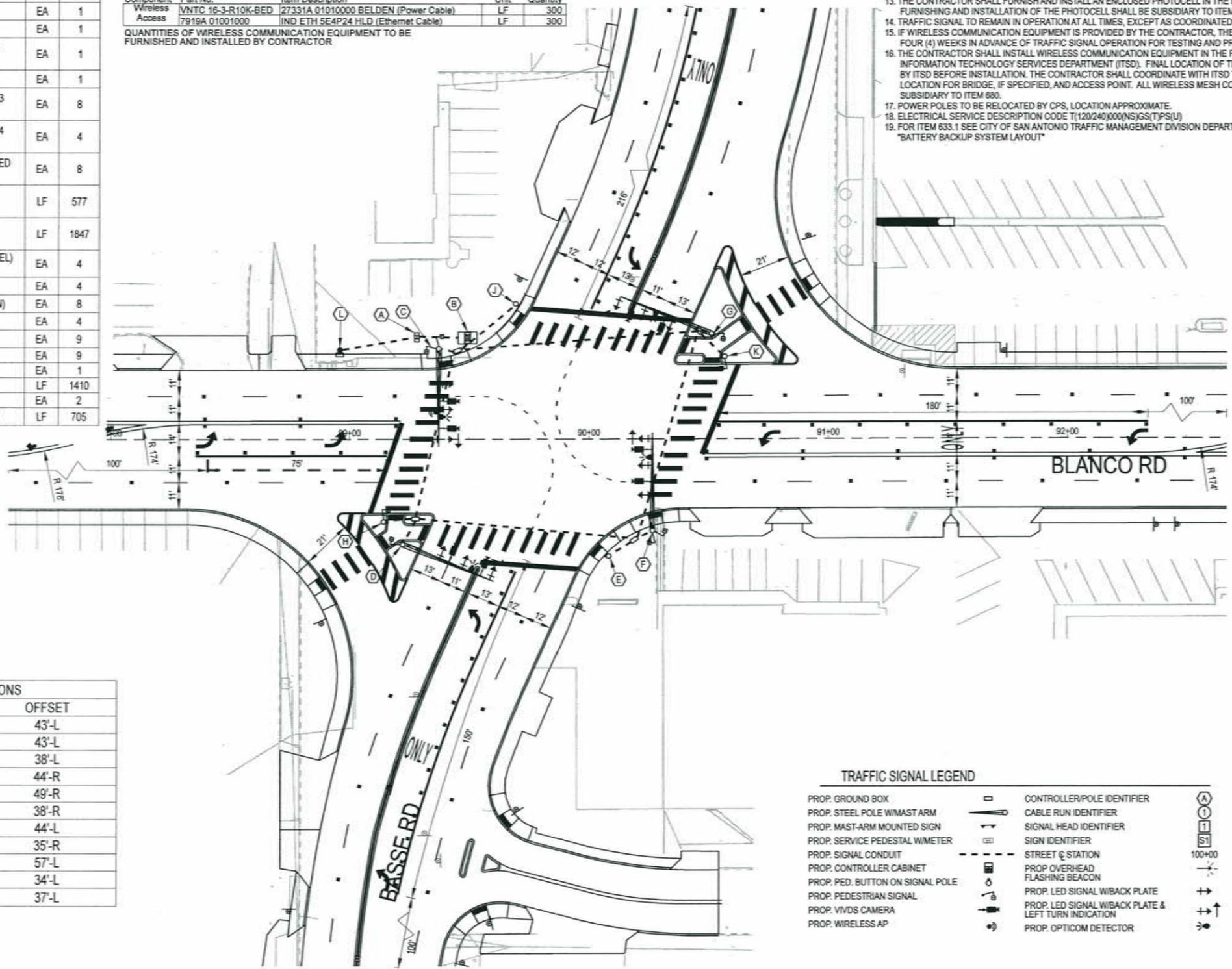
Component	Part No.	Item Description	Unit	Quantity
Wireless Access Point	AIR-LAP1522AG-AK9	802.11a, big Outdoor Mesh AP, FCC Cfg	EA	1
	AIR-ANT2480V-N	2400-2483.5 MHz, 8.0 dBi Omni Ant, with N Conne	EA	3
	AIR-CORD-R3P-40NA	Aironet 1520 Series AC Power Cord, 40 ft, N	EA	1
	AIR-ANT5180V-N	4900-5850 MHz, 8.0dBi OMNI with N Conne	EA	1
	AIR-ACCPMK1520	1520 Series Pole Mount Kit	EA	1
	SMARTNET 8X5XNB	802.11a, big Outdoor Mesh AP, FCC Cfg	EA	1
UK 6-FS/IC	Fuse Holder	EA	1	
TCP 3, OA	3 Amp Fuse Breaker	EA	1	
TCP 5, OA	5 Amp Fuse Breaker	EA	1	
Ethernet Switch	WS-C2955S-12	2955 12 TX W/SM UPLINKS	EA	1
	CISCO STK-RACKMNT-19	19 IN RACK MOUNT KIT	EA	1
	PWR-2955-AC	CISCO, AC TO 24 V DC DIN RAIL PW	EA	1
	CON-SNTWSC2955S	SMARTNET 8X5XNB 2955 12 TX w/Single Mod	EA	1
	UK 6-FS/IC	Fuse Holder	EA	1
	TCP 3, OA	3 Amp Fuse Breaker	EA	1
TCP 5, OA	5 Amp Fuse Breaker	EA	1	

NOTE: QUANTITIES OF WIRELESS COMMUNICATION EQUIPMENT TO BE FURNISHED BY CONTRACTOR AND INSTALLED BY COSA. ITEMS SUBSIDIARY TO ITEM 680

Component	Part No.	Item Description	Unit	Quantity
Wireless Access	VNTC 16-3-R10K-BED	27331A 01010000 BELDEN (Power Cable)	LF	300
	7919A 01001000	IND ETH 5E4P24 HLD (Ethernet Cable)	LF	300

QUANTITIES OF WIRELESS COMMUNICATION EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR

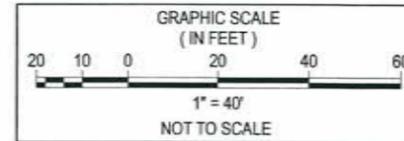
- CONSTRUCTION NOTES:
- CONTRACTOR SHALL NOT BEGIN CONSTRUCTION WITHOUT WRITTEN AUTHORIZATION ISSUED BY THE CITY TRAFFIC ENGINEER (THE ENGINEER).
 - CONTRACTOR SHALL FURNISH ALL INSURANCE DOCUMENTATION TO THE ENGINEER IN ACCORDANCE WITH SPECIAL SPECIFICATION ITEM 600 - TRAFFIC SIGNAL GENERAL CONDITIONS INSURANCE.
 - CONTRACTOR SHALL ATTEND PRE-CONSTRUCTION MEETING WITH THE ENGINEER PRIOR TO INITIATING ANY TRAFFIC SIGNAL RELATED WORK.
 - CONTRACTOR SHALL CONTACT THE ENGINEER AT LEAST SEVEN (7) DAYS PRIOR TO BEGINNING ANY CONSTRUCTION. THE CITY WILL PROVIDE ALL ON-SITE INSPECTION OF CONSTRUCTION AND SHALL BE THE SOLE AUTHORITY TO DETERMINE THE ADEQUACY OF MATERIALS AND CONSTRUCTION.
 - CONTRACTOR SHALL UNCOVER AND LOCATE ALL MARKED UNDERGROUND FACILITIES PRIOR TO EXCAVATING FOR DRILLED SHAFT FOUNDATIONS. UTILITIES SHOWN ARE BASED ON INFORMATION PROVIDED BY UTILITY AGENCIES AND VISUAL FIELD OBSERVATION. PROPERTY LINES SHOWN ARE APPROXIMATE, TAKEN FROM BEXAR APPRAISAL MAPS.
 - CONTRACTOR SHALL PROVIDE RED-LINE MARKUPS OF CONSTRUCTION TO THE ENGINEER WITHIN SEVEN (7) WORKING DAYS OF PROJECT ACCEPTANCE.
 - CONTRACTOR SHALL INSTALL TRAFFIC SIGNALS CENTERED OVER LANES WHEN POSSIBLE (MINIMUM 8' APART) AS DIRECTED BY THE ENGINEER.
 - CONTRACTOR SHALL INSTALL PHASING/TIMINGS AND CHANNELIZATION AS DIRECTED BY THE ENGINEER.
 - CONTRACTOR SHALL INSTALL ONE ADDITIONAL 2 INCH CONDUIT STUBBED OUT 2 FEET FROM EACH FOUNDATION AND CAPPED.
 - FURNISHING AND INSTALLATION OF THIS CONDUIT SHALL BE SUBSIDIARY TO THE POLE FOUNDATION.
 - ALL SIGNS MOUNTED ON TRAFFIC SIGNAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AS SHOWN ON THE PLANS.
 - SALVAGE MATERIAL SHALL BE DETERMINED BY THE CITY INSPECTOR AND DELIVERED TO THE CITY OF SAN ANTONIO TRAFFIC OPERATIONS FACILITY LOCATED AT 223 SOUTH CHERRY, SAN ANTONIO, TEXAS 78203. THE CONTRACTOR SHALL CONTACT THE CITY SERVICES & SUPPLY SUPERINTENDENT, AT (210) 207-7771 SEVEN (7) DAYS PRIOR TO DELIVERY OF THE SALVAGED MATERIAL. THE CONTRACTOR SHALL BECOME THE OWNER AND DISPOSE OF UNSALVAGED MATERIAL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
 - THE CONTRACTOR SHALL PROVIDE THE EQUIPMENT FOR COMMUNICATION TO THE SIGNAL AS PER SIGNAL COMMUNICATION TABLE
 - THE CONTRACTOR SHALL FURNISH AND INSTALL AN ENCLOSED PHOTOCELL IN THE ELECTRICAL SERVICE TO POWER THE ILSN SIGNS. FURNISHING AND INSTALLATION OF THE PHOTOCELL SHALL BE SUBSIDIARY TO ITEM 632.01 "ELECTRICAL SERVICE PEDESTAL"
 - TRAFFIC SIGNAL TO REMAIN IN OPERATION AT ALL TIMES, EXCEPT AS COORDINATED WITH THE CITY TRAFFIC SIGNAL ENGINEER
 - IF WIRELESS COMMUNICATION EQUIPMENT IS PROVIDED BY THE CONTRACTOR, THE EQUIPMENT SHALL BE DELIVERED TO COSA SIGNAL SHOP FOUR (4) WEEKS IN ADVANCE OF TRAFFIC SIGNAL OPERATION FOR TESTING AND PROGRAMMING.
 - THE CONTRACTOR SHALL INSTALL WIRELESS COMMUNICATION EQUIPMENT IN THE FIELD AS NOTED IN THE PLANS AND AS DIRECTED BY COSA INFORMATION TECHNOLOGY SERVICES DEPARTMENT (ITSD). FINAL LOCATION OF THE WIRELESS COMMUNICATION EQUIPMENT SHALL BE APPROVED BY ITSD BEFORE INSTALLATION. THE CONTRACTOR SHALL COORDINATE WITH ITSD TO PREPARE SIGNAL STRENGTH SURVEY AND DETERMINE LOCATION FOR BRIDGE, IF SPECIFIED, AND ACCESS POINT. ALL WIRELESS MESH COMMUNICATION EQUIPMENT AND INSTALLATION SHALL BE SUBSIDIARY TO ITEM 680.
 - POWER POLES TO BE RELOCATED BY CPS, LOCATION APPROXIMATE.
 - ELECTRICAL SERVICE DESCRIPTION CODE T(120/240/000)(NS)(GS)(TPS)(U)
 - FOR ITEM 633.1 SEE CITY OF SAN ANTONIO TRAFFIC MANAGEMENT DIVISION DEPARTMENT OF PUBLIC WORKS TRAFFIC SIGNAL STANDARD "BATTERY BACKUP SYSTEM LAYOUT"



TRAFFIC SIGNAL ITEM LOCATIONS		
ITEM	BLANCO & BASSE	OFFSET
A	89+28	43'-L
B	89+50	43'-L
C	89+37	38'-L
D	89+22	44'-R
E	90+08	49'-R
F	90+27	38'-R
G	90+51	44'-L
H	89+14	35'-R
J	89+70	57'-L
K	90+57	34'-L
L	88+96	37'-L

NOTE: ALL LOCATIONS ARE SUBJECT TO THE DIRECTION OF THE CITY TRAFFIC ENGINEER.

TRAFFIC SIGNAL LEGEND	
PROP. GROUND BOX	□
PROP. STEEL POLE W/MAST ARM	⊥
PROP. MAST-ARM MOUNTED SIGN	⊥
PROP. SERVICE PEDESTAL W/METER	⊥
PROP. SIGNAL CONDUIT	---
PROP. CONTROLLER CABINET	⊥
PROP. PED. BUTTON ON SIGNAL POLE	⊥
PROP. PEDESTRIAN SIGNAL	⊥
PROP. VIVDS CAMERA	⊥
PROP. WIRELESS AP	⊥
CONTROLLER/POLE IDENTIFIER	⊥
CABLE RUN IDENTIFIER	⊥
SIGNAL HEAD IDENTIFIER	⊥
SIGN IDENTIFIER	⊥
STREET @ STATION	⊥
PROP. OVERHEAD FLASHING BEACON	⊥
PROP. LED SIGNAL W/BACK PLATE	⊥
PROP. LED SIGNAL W/BACK PLATE & LEFT TURN INDICATION	⊥
PROP. OPTICOM DETECTOR	⊥



STATE OF TEXAS
 JULIO RAMOS
 107672
 LICENSED PROFESSIONAL ENGINEER
Julio Ramos
 JULIO RAMOS, P.E.
 2/24/2012

DON DURDEN, INC.
 d.b.a. CIVIL ENGINEERING CONSULTANTS
 11550 IH 10 WEST, SUITE 395
 SAN ANTONIO, TEXAS 78230-1037
 TEL: (210) 841-9999
 FAX: (210) 841-8440
 REGISTRATION #F-2214

CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS
 MANAGEMENT SERVICES
 DEPARTMENT

BLANCO ROAD SEG 3 BASE BID
 INTERSECTION LAYOUT
 BASSE
 ADDENDUM NO. 4
 SHEET 2 OF 3

SUBMITAL	PROJECT NUMBER	DATE
FINAL	40-00004	2/24/2012
DRWN BY:	DSGN BY:	CHKD BY:
		238

QTY	DESCRIPTION	UNIT	QTY
308.1	DRILLED SHAFTS (24")	LF	5.7
308.1	DRILLED SHAFTS (30")	LF	11.3
308.1	DRILLED SHAFTS (36")	LF	13.2
531.2	R9-3a PEDESTRIAN CROSSING PROHIBITED (18"x18")(HIGH INTENSITY)	EA	1
531.9	R9-3b USE CROSSWALK (18"x12")(HIGH INTENSITY)	EA	1
531.9	R10-1 CROSS ONLY ON PED SIGNAL (9"x12")(HIGH INTENSITY)	EA	4
615.1	TRAFFIC SIGNAL CONTROLLER ASSEMBLY (TYPE 332 CABINET)	EA	1
618.1	CONDUIT (2 INCH / PVC SCHEDULE 40)	LF	40
618.2	CONDUIT (3 INCH / PVC SCHEDULE 40)	LF	264
620.1	ELECTRICAL CONDUCTORS (NO. 6) (BARE)	LF	16
620.2	ELECTRICAL CONDUCTORS (NO. 8) (BARE)	LF	188
620.3	ELECTRICAL CONDUCTORS (NO. 6) (INSULATED)	LF	32
624.8	GROUND BOXES TY D (162922) WITH APRON	EA	3
628.1	ELECTRICAL SERVICES	EA	1
633.1	BATTERY BACKUP FOR TRAFFIC SIGNAL	EA	1
655.1	TYPE 332 CONTROLLER FOUNDATION	EA	1
680.2	INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM)	EA	1
681.1	TEMP TRAFFIC SIGNAL (PER INTERSECTION)	EA	1
682.1	INS VEH SIG SECTION W/BACK PLATE (12 INCH)(3 SECONDS)	EA	6
682.4	INSTALL PEDESTRIAN SIGNAL SECTIONS (12 IN) LED (2 IND)	EA	4
684.1	TRAFFIC SIGNAL CABLES (TYPE A)(14AWG)(CONDUCTOR NO.4)	LF	329
684.1	TRAFFIC SIGNAL CABLES (TYPE A)(14AWG)(CONDUCTOR NO.9)	LF	631
686.5	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 36")(ILSN)	EA	1
686.282B	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (2 ARM 28-28")(ILSN)	EA	1
687.1	PEDESTAL POLE ASSEMBLY	EA	1
688.2	PEDESTRIAN DETECTORS (2 INCH PUSH BUTTON)	EA	4
693.3	ILSN SIGN (LED) (6 FT) (SINGLE SIDED)	EA	1
693.2	ILSN SIGN (LED) (8 FT) (DOUBLE SIDED)	EA	2
694.1	VIVDS PROCESSOR UNIT	EA	6
694.2	VIVDS CAMERA ASSEMBLY	EA	6
694.4	VIVDS SET-UP SYSTEM	EA	1
694.6	VIVDS COMMUNICATION CABLE (COAXIAL)	LF	612
695.3	EMERGENCY PREEMPTION DETECTOR	EA	1
695.4	EMERGENCY PREEMPTION DETECTOR CABLE	LF	413

- CONSTRUCTION NOTES:
- CONTRACTOR SHALL NOT BEGIN CONSTRUCTION WITHOUT WRITTEN AUTHORIZATION ISSUED BY THE CITY TRAFFIC ENGINEER (THE ENGINEER).
 - CONTRACTOR SHALL FURNISH ALL INSURANCE DOCUMENTATION TO THE ENGINEER IN ACCORDANCE WITH SPECIAL SPECIFICATION ITEM 600 - TRAFFIC SIGNAL GENERAL CONDITIONS INSURANCE.
 - CONTRACTOR SHALL ATTEND PRE-CONSTRUCTION MEETING WITH THE ENGINEER PRIOR TO INITIATING ANY TRAFFIC SIGNAL RELATED WORK.
 - CONTRACTOR SHALL CONTACT THE ENGINEER AT LEAST SEVEN (7) DAYS PRIOR TO BEGINNING ANY CONSTRUCTION. THE CITY WILL PROVIDE ALL ON-SITE INSPECTION OF CONSTRUCTION AND SHALL BE THE SOLE AUTHORITY TO DETERMINE THE ADEQUACY OF MATERIALS AND CONSTRUCTION.
 - CONTRACTOR SHALL UNCOVER AND LOCATE ALL MARKED UNDERGROUND FACILITIES PRIOR TO EXCAVATING FOR DRILLED SHAFT FOUNDATIONS. UTILITIES SHOWN ARE BASED ON INFORMATION PROVIDED BY UTILITY AGENCIES AND VISUAL FIELD OBSERVATION. PROPERTY LINES SHOWN ARE APPROXIMATE, TAKEN FROM BEXAR APPRAISAL MAPS.
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 - NEW POWER POLE AND RELOCATED POWER POLE BY CPS, LOCATION SHOWN APPROXIMATE.
 - ELECTRICAL SERVICE DESCRIPTION CODE T(120/240)X00(NS)/GS(T)PS(U)
 - FOR ITEM 633.1 SEE CITY OF SAN ANTONIO TRAFFIC MANAGEMENT DIVISION DEPARTMENT OF PUBLIC WORKS TRAFFIC SIGNAL STANDARD "BATTERY BACKUP SYSTEM LAYOUT"

WIRELESS COMMUNICATION EQUIPMENT SHALL BE SUBSIDIARY TO ITEM 680

Component	Part No.	Item Description	Unit	Quantity
Wireless Access Point	AIR-LAP1522AG-AK9	802.11a, b/g Outdoor Mesh AP, FCC Cfg	EA	1
	AIR-ANT2480V-N	2400-2483.5 MHz, 8.0 dBi Omni Ant, with N Conne	EA	3
	AIR-CORD-R3P-40NA	Aironet 1520 Series AC Power Cord, 40 ft, N	EA	1
	AIR-ANT5180V-N	4900-5850 MHz, 8.0dBi OMNI with N Connec	EA	1
	AIR-ACCPMK1520	1520 Series Pole Mount Kit	EA	1
	SMARTNET 8X5XNB	802.11a, b/g Outdoor Mesh AP, FCC Cfg	EA	1
	UK 6-FSI/C	Fuse Holder	EA	1
TCP 3, OA	3 Amp Fuse Breaker	EA	1	
TCP 5, OA	5 Amp Fuse Breaker	EA	1	

Component	Part No.	Item Description	Unit	Quantity
Ethernet Switch	WS-C2955S-12	2955 12 TX W/SM UPLINKS	EA	1
	CISCO STK-RACKMNT-	19 IN RACK MOUNT KIT	EA	1
	PWR-2955-AC	CISCO, AC TO 24 V DC DIN RAIL PW	EA	1
	CON-SNTWSC2955S	SMARTNET 8X5XNB 2955 12 TX w/Single Mod	EA	1
	UK 6-FSI/C	Fuse Holder	EA	1
	TCP 3, OA	3 Amp Fuse Breaker	EA	1
	TCP 5, OA	5 Amp Fuse Breaker	EA	1

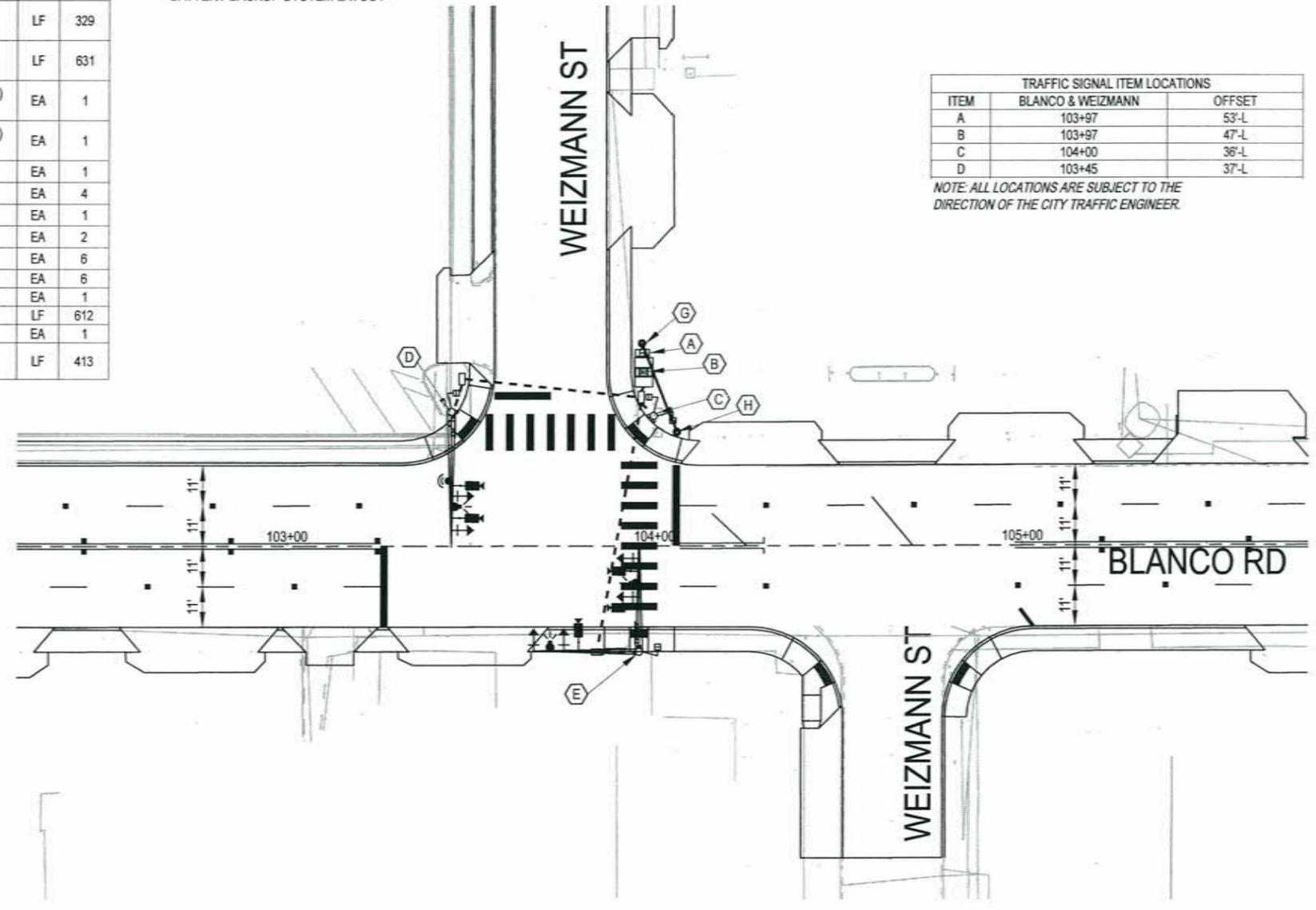
NOTE: QUANTITIES OF WIRELESS COMMUNICATION EQUIPMENT TO BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY COSA. ITEMS SUBSIDIARY TO ITEM 680.

Component	Part No.	Item Description	Unit	Quantity
Wireless Access	VNTC 16-3-R10K-BED	27331A 01010000 BELDEN (Power Cable)	LF	300
	7919A 01001000	IND ETH 5E4P24 HLD (Ethernet Cable)	LF	300

QUANTITIES OF WIRELESS COMMUNICATION EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR

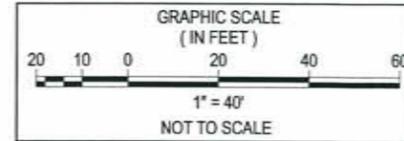
TRAFFIC SIGNAL LEGEND

- PROP. GROUND BOX
- PROP. STEEL POLE W/MAST ARM
- PROP. ILSN SIGN
- PROP. SERVICE PEDESTAL W/METER
- PROP. SIGNAL CONDUIT
- PROP. CONTROLLER CABINET
- PROP. PED. BUTTON ON SIGNAL POLE
- PROP. PEDESTRIAN SIGNAL
- PROP. VIVDS CAMERA
- PROP. OPTICOM DETECTOR
- PROP. WIRELESS AP
- CONTROLLER/POLE IDENTIFIER
- CABLE RUN IDENTIFIER
- SIGNAL HEAD IDENTIFIER
- SIGN IDENTIFIER
- STREET @ STATION
- PROP. OVERHEAD FLASHING BEACON
- PROP. LED SIGNAL W/BACK PLATE
- PROP. LED SIGNAL W/BACK PLATE & LEFT TURN INDICATION



TRAFFIC SIGNAL ITEM LOCATIONS		
ITEM	BLANCO & WEIZMANN	OFFSET
A	103+97	53'-L
B	103+97	47'-L
C	104+00	36'-L
D	103+45	37'-L

NOTE: ALL LOCATIONS ARE SUBJECT TO THE DIRECTION OF THE CITY TRAFFIC ENGINEER.



STATE OF TEXAS
 JULIO RAMOS
 107672
 LICENSED PROFESSIONAL ENGINEER

Julio Ramos

JULIO RAMOS, P.E.
 2/24/2012

DON DURDEN, INC.
 d.d.a. CIVIL ENGINEERING CONSULTANTS
 11550 IH 10 WEST, SUITE 395
 SAN ANTONIO, TEXAS 78230-1037
 TEL: (210) 841-9999
 FAX: (210) 841-8440
 REGISTRATION #F-2214

CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS
 MANAGEMENT SERVICES
 DEPARTMENT

BLANCO ROAD SEG 3 BASE BID

INTERSECTION LAYOUT
 WEIZMANN
 ADDENDUM NO.4

SHEET 2 OF 3

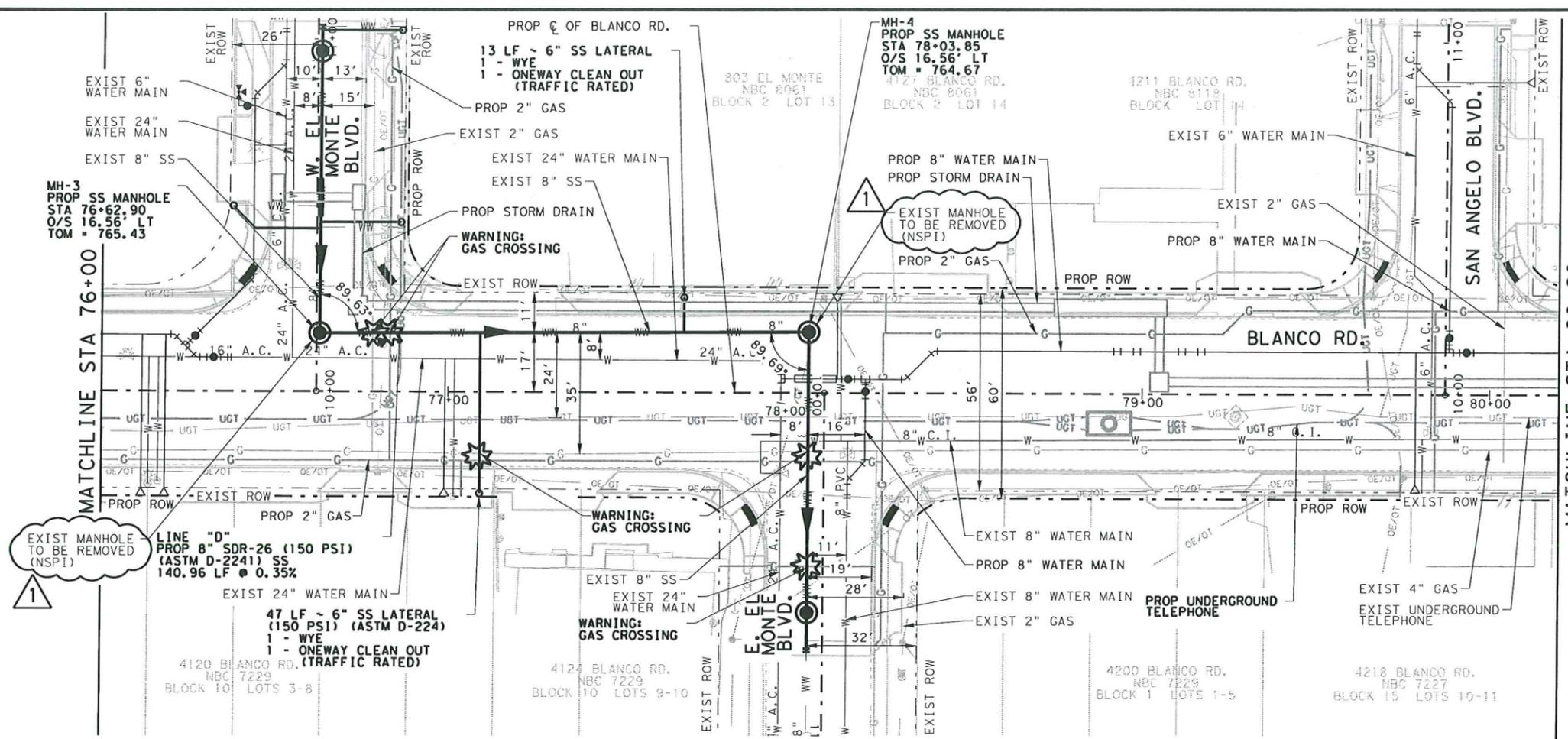
SUBMITTAL	PROJECT NUMBER	DATE
FINAL	40-00004	2/24/2012
DRWN BY:	DSGN BY:	CHKD BY:

2/20/2012 S:\Projects\SAWS\9007201\SAWS\Blanco_Road_Hilderbrand to Jackson_Keller\SEWER\PH1\9007201\SEWERLAY06.dgn

ITEM	UNIT	QUANTITY
TRENCH EXCAVATION SAFETY PROTECTION	LF	140.96
8" PVC GRAVITY SANITARY SEWER LINE (0' - 6' CUT) (SDR 26)	LF	90.96
8" PVC GRAVITY SANITARY SEWER LINE (6' - 10' CUT) (SDR 26)	LF	50.00
SANITARY SEWER MANHOLE (0'-6')	EA	2
SANITARY SEWER LATERALS	LF	60
ONE-WAY SANITARY SEWER CLEANOUT	EA	2
CONCRETE ENCASUREMENT, CRADLES, SADDLES & COLLARS	CY	0.5
POST-CONSTRUCTION SANITARY SEWER MAIN TELEVISION INSPECTION (8" - 15" MAIN)	LF	140.96
PRE-CONSTRUCTION SANITARY SEWER MAIN TELEVISION INSPECTION (8" - 15" MAIN)	LF	140.96

1 REVISED BY ADDENDUM #4

S.A.W.S. NOTE:
 LOCATION AND DEPTH OF EXISTING WATER MAINS AND SERVICES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATION AND DEPTHS MUST BE VERIFIED BY THE CONTRACTOR 48 HOURS PRIOR TO BEGINNING CONSTRUCTION BY CALLING THE SAWS WATER LINE LOCATOR AT 233-2010. THE CONTRACTOR SHOULD EXERCISE EXTREME CAUTION WHEN WORKING NEAR EXISTING WATER FACILITIES AND SHOULD THEY BE DAMAGED DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR WILL BE REQUIRED TO REIMBURSE THE SAN ANTONIO WATER SYSTEM FOR THE TOTAL COST TO REPAIR OR REPLACE THE DAMAGED FACILITIES.



TRENCH EXCAVATION SAFETY PROTECTION:
 CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAIN EMPLOYEE OR STRUCTURAL/DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT. IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES, THE CONTRACTOR'S IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS.

SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAIN EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

CONTRACTOR SHALL BE REQUIRED TO CUT AND REMOVE EXISTING WATER SERVICES IN CONFLICT WITH PROPOSED SANITARY SEWER AS A NON-SEPARATE PAY ITEM (NSPI).

CONTRACTOR SHALL BE REQUIRED TO REMOVE EXISTING SANITARY SEWER, LATERALS AND MANHOLES AS A NON-SEPARATE PAY ITEM (NSPI).

CPS ENERGY NOTES:
 CALL THE TEXAS STATE WIDE ONE CALL LOCATOR NUMBER 1-800-344-8377, 48 HOURS BEFORE BEGINNING ANY EXCAVATION.

DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.181, CPS ENERGY MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA.

THE PROJECT MUST BE GAS LEAK SURVEYED PRIOR TO THE FINAL OVERLAY. ALLOW 10 WORKING DAYS FOR THE LEAK SURVEY AND ALLOW AN ADDITIONAL 10 WORKING DAYS FOR VALVE ADJUSTMENTS. THE CONTRACTOR MUST COORDINATE THE SURVEY AND THE ADJUSTMENTS THROUGH THE PROJECT INSPECTOR.

THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING CPS ENERGY OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES IF ADJACENT TO WORK AREAS.

AT&T NOTE:
 THE EXISTENCE AND LOCATION OF UNDERGROUND CABLE INDICATED ON THE PLANS ARE TAKEN FROM THE BEST RECORDS AVAILABLE AND ARE NOT GUARANTEED TO BE ACCURATE. CONTRACTOR TO CONTACT THE TELEPHONE COMPANY CABLE LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-828-5127. CONTRACTOR IS TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION."

LEGEND

- WW — WASTE WATER
- W — WATER
- G — BURIED GAS
- OT — OH TEL
- UT — BURIED TEL
- OE — OH ELEC
- OE/OT — OH ELEC/OH TEL
- CLEAN OUT
- ⊗ FIRE HYDRANT
- ⊕ WATER METER
- ⊕ WATER VALVE
- ⊕ TELE PEDESTAL
- ⊕ LIGHT POLE
- ⊕ POWER POLE
- ⊕ GUY WIRE
- ⊕ SIGN
- ⊕ MAIL BOX
- ⊕ EXIST MANHOLE
- ⊕ ADJUST MANHOLE
- ⊕ PROP MANHOLE
- ▲ PROP SS
- PROP SS LATERAL
- EXIST SS LATERAL
- ⊕ GAS CROSSING
- CLEAN OUT

LNV
 TBPE FIRM NO. F-366
 8918 TESORO DRIVE
 SAN ANTONIO, TEXAS 78217

SAWS
 SAN ANTONIO WATER SYSTEM

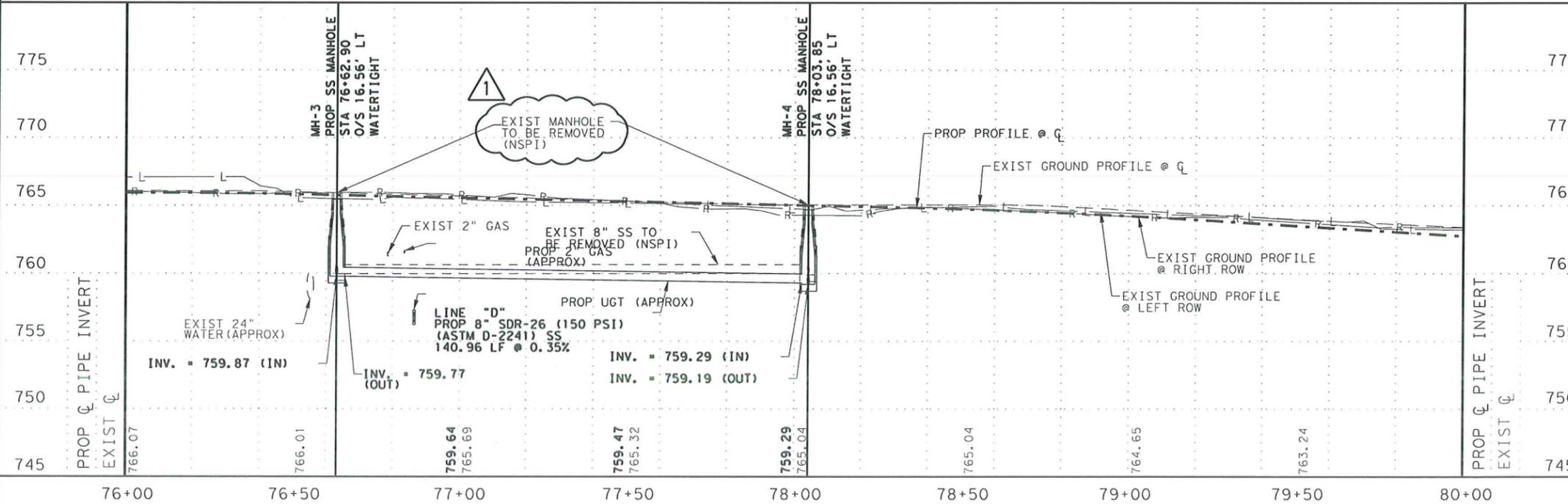
**BLANCO RD.
 (HILDEBRAND TO JACKSON-KELLER)
 PHASE 1**

**BASE BID
 SANITARY SEWER
 STA 76+00 TO STA 81+00
 SHEET 3 OF 15**

HORIZ. SCALE: 1"=40' VERT. SCALE: 1"=10'

0 20 40 0 5 10
 SCALE IN FEET SCALE IN FEET

DEVELOPER:		BUDGET PROJ.	
CONT.		APPROVED	
SUBMITTED		DATE: 2/20/2012	
MAP No.	SECT. NO.	CHKD BY:	SHT NO.: S12
DRAWN BY:	DSGN BY:	CHKD BY:	



ESTIMATED STREET AND DRAINAGE QUANTITIES

ITEM #	DESCRIPTION	UNIT	ESTIMATED QUANTITIES	FINAL QUANTITIES	ITEM #	DESCRIPTION	UNIT	ESTIMATED QUANTITIES	FINAL QUANTITIES
	COSA ITEMS					COSA ITEMS			
100.1	MOBILIZATION	LS	1		537.9	PAVEMENT MARKER (TYPE II C-R)	EA	317	
100.2	INSURANCE AND BOND	LS	1		540.06	CONSTRUCTION EXITS (INSTALL/REMOVE)	SY	234	
101.1	PREPARING RIGHT OF WAY	LS	1		540.07	CONSTRUCTION PERIMETER FENCE	LF	6440	
104.1	STREET EXCAVATION	CY	9757		540.1	CURB INLET GRAVEL FILTERS	LF	590	
106.1	BOX CULVERT EXCAVATION & BACKFILL	CY	2439		550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	2984.24	
107.1	EMBANKMENT (FINAL)(DENS CONT)(TY B)	CY	13		552.1	REMOVING AND RELOCATING IRRIGATION SYSTEMS	LF	200	
108.1	LIME TREAT. SUBGRADE (6" COMPACTED DEPTH)	SY	17114		615.1	TRAFFIC SIGNAL CONTROLLER ASSEMBLY (TYPE 332 CABINET)	EA	2	
108.2	LIME	TON	309		618.1	CONDUIT (2 INCH/PVC SCHEDULE 40)	LF	2445	
200.1	FLEXIBLE BASE (6" COMPACTED DEPTH)(TY C)	SY	24		618.2	CONDUIT (3 INCH/PVC SCHEDULE 40)	LF	1357	
203.1	TACK COAT	GAL	9		620.1	ELECTRICAL CONDUCTORS (NO. 6) (BARE)	LF	30	
205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (8.5" COMP. DEPTH)	SY	17114		620.2	ELECTRICAL CONDUCTORS (NO. 8) (BARE)	LF	701	
205.2	HOT MIX ASPHALTIC PAVEMENT, TY B (7.5" COMPACTED DEPTH)	SY	89		620.3	ELECTRICAL CONDUCTORS (NO. 6) (INSULATED)	LF	60	
205.3	HOT MIX ASPHALTIC PAVEMENT, TYPE C (2.25" COMP. DEPTH)	SY	445		624.8	GROUND BOXES TYPE D (162922) W/ APRON	EA	22	
205.3	HOT MIX ASPHALTIC PAVEMENT, TYPE C (2" COMP. DEPTH)	SY	16552		628.1	ELECTRICAL SERVICES	EA	2	
208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT(3" DEPTH)	SY	445		633.1	BATTERY BACKUP FOR TRAFFIC SIGNAL	EA	2	
209.1	CONCRETE PAVEMENT (10" DEPTH)(BUS PAD)	SY	1254		655.1	TYPE 332 CONTROLLER FOUNDATION	EA	2	
230.1	FLEXIBLE PAVEMENT FULL-DEPTH REPAIR (6" COMP. DEPTH)	SY	424		680.2	INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM)	EA	2	
230.2	CONCRETE PAVEMENT FULL-DEPTH REPAIR (6" COMP. DEPTH)	SY	97		681.1	TEMP TRAFFIC SIGNAL (PER INTERSECTION)	EA	2	
234.1	BASE REINFORCEMENT TX-5	SY	17114		682.10	INS VEH SIG SECTION W/BACK PLATE (12 INCH)(3 SECONDS)	EA	16	
260	ULTRA-THIN BONDED HOT MIX WEARING COURSE (NOVACHIP SURFACE TREATMENT)	SY	16997		682.23	INS VEH SIG SECTION W/BACK PLATE (12 INCH)(4 SECONDS)	EA	3	
308.1	DRILLED SHAFTS (24")	LF	5.7		682.4	INSTALL PEDESTRIAN SIGNAL SECTION (12 IN) LED (2 IND)	EA	16	
308.1	DRILLED SHAFTS (30")	LF	67.8		684.1	TRAFFIC SIGNAL CABLES (TYPE A)(14AWG)(CONDUCTOR NO.4)	LF	993	
308.1	DRILLED SHAFTS (36")	LF	52.8		684.1	TRAFFIC SIGNAL CABLES (TYPE A)(14AWG)(CONDUCTOR NO.9)	LF	2305	
309.1	PRECAST CONCRETE CULVERT (6'X4')	LF	428.04		685.4	SOLAR POWERED (PHOTOVOLTAIC) SCHOOL ZONE FLASHER ASSEMBLY (MAST ARM)	EA	2	
401.1	REINFORCED CONCRETE PIPE (24") CLASS III	LF	644.2		686.30	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 28')	EA	2	
401.1	REINFORCED CONCRETE PIPE (42") CLASS III	LF	440.71		686.31	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 28')(ILSN)	EA	2	
401.1	REINFORCED CONCRETE PIPE (48") CLASS III	LF	1144.31		686.41	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 32')(ILSN)	EA	2	
401.1	REINFORCED CONCRETE PIPE (54") CLASS III	LF	326.98		686.51	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 36')(ILSN)	EA	1	
403.1	JUNCTION BOX 4'X4'X4'	EA	1		686.61	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 40')(ILSN)	EA	3	
403.3	JUNCTION BOX 6'X6'X6'	EA	10		687.1	PEDESTAL POLE ASSEMBLY	EA	1	
403.4	JUNCTION BOX 7'X7'X7'	EA	3		688.2	PEDESTRIAN DETECTORS (2 INCH PUSH BUTTON)	EA	16	
403.5	JUNCTION BOX 8'X8'X8'	EA	1		693.1	INTERNALLY LIGHTED STREET NAME SIGN (LED) (8 FT) (DOUBLE SIDED)	EA	6	
403.7	INLET (TY I)	EA	6		693.2	INTERNALLY LIGHTED STREET NAME SIGN (LED) (8 FT) (DOUBLE SIDED)	EA	2	
403.09	INLET (TY III)	EA	12		694.1	VIVDS PROCESSOR UNIT	EA	16	
403.11	INLET (TY V)	EA	1		694.2	VIVDS CAMERA ASSEMBLY	EA	16	
403.21	TY X-1	EA	3		694.4	VIVDS SET-UP SYSTEM	EA	2	
403.23	TY X-3	EA	4		694.6	VIVDS COMMUNICATION CABLE (COAXIAL)	LF	2120	
403.25	TY X-5	EA	1		695.3	EMERGENCY PREEMPTION DETECTOR	EA	2	
403.27	MANHOLE VERTICAL STACK	EA	4		695.4	EMERGENCY PREEMPTION DETECTOR CABLE	LF	1529	
410.2	GRAVEL SUBGRADE FILLER	CY	451.4		801.2	LEVEL IIA PROTECTIVE FENCING	LF	100	
413.1	FLOWABLE BACKFILL	CY	1177.7		801.3	LEVEL IIB PROTECTIVE FENCING	LF	34	
500.1	CONCRETE CURBING	LF	4923		802.2	LEVEL II PRUNING	LS	1	
502.1	CONCRETE SIDEWALKS	SY	2287		110.2.5	TRANSPORTATION TO DISPOSAL FACILITY (COSA)	CY	2650	
503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS	SY	951		110.2.8	TRANSPORTATION TO DISPOSAL FACILITY (CPS)	CY	80	
503.2	PORTLAND CEMENT CONCRETE DRIVEWAYS - COMMERCIAL	SY	1744		110.2.13	LANDFILL DISPOSAL (COSA)	CY	2650	
503.4	ASPHALTIC CONCRETE DRIVEWAY	SY	915		110.2.16	LANDFILL DISPOSAL (CPS)	CY	80	
503.5	GRAVEL DRIVEWAY	SY	121		110.4.3	REMOVAL, STORAGE AND TREATMENT OF IMPACTED GROUNDWATER	GAL	25000	
506.1	CONCRETE RETAINING WALLS-COMB. TYPE	CY	33.3		110.4.4	DISPOSAL OF IMPACTED GROUNDWATER	GAL	25000	
507.1	CHAIN LINK WIRE FENCE (4' HIGH)	LF	43		110.5.2	DEVELOPMENT OF A SITE SPECIFIC HEALTH AND SAFETY PLAN	LS	1	
507.2	CHAIN LINK WIRE FENCE (6' HIGH)	LF	127		110.6.3	DEVELOPMENT OF THE WASTE MANAGEMENT PLAN	LS	1	
507.5	GATES-VEHICULAR	OPENING	2		110.6.4	ENVIRONMENTAL OVERSIGHT IMPLEMENTATION	LS	1	
516.1	BURMUDA SODDING	SY	217		0662 2001	WK ZN PAV MRK NON-REMOV (W) 4" (BRK)	LF	1210	
516.2	ST. AUGUSTINE SODDING	SY	217		0662 2012	WK ZN PAV MRK NON-REMOV (W) 8" (SLD)	LF	220	
524.1	CONCRETE STEPS	CY	2		0662 2032	WK ZN PAV MRK NON-REMOV (Y) 4" (SLD)	LF	5207	
525.1	CONCRETE TRAFFIC BARRIER (PORTABLE)	LF	2020		0662 2079	WK ZN PAV MRK REMOV (W) 24" (SLD)	LF	313	
530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1		0662 2113	WORK ZN PAV MRK SHT TERM (TAB) TY W	EA	450	
531.03	R1-1 STOP (30")(HIGH DENSITY)	EA	7		0662 2114	WORK ZN PAV MRK SHT TERM (TAB) TY Y	EA	1050	
531.06	R2-1 SPEED LIMIT (24"x30")	EA	3			OFF-DUTY POLICE OFFICERS FOR TRAFFIC CONTROL	LS	1	
531.11	R3-5L LEFT ONLY (30"x36") (HIGH INTENSITY)	EA	1						
531.34	S1-1 ADVANCE SCHOOL CROSSING AND SCHOOL CROSSING (36"x36")	EA	6						
531.35	W16-7 DIAGONAL ARROW SIGN (DIAMOND GRADE (FLUORESCENT YELLOW GREEN))(30"x18")	EA	4						
531.57	9 INCH STREET NAME BLOCK NUMBERS (VARIES X 9')	EA	28						
531.62	W16-9P AHEAD (36"x20")(HIGH DENSITY)	EA	1						
531.66	S5-2A END SCHOOL ZONE (24"x9')	EA	2						
531.87	R10-1 CROSS ONLY ON PED SIGNAL (9"x12")(HIGH INTENSITY)	EA	16						
535.01	4 INCH WIDE YELLOW LINE	LF	5207						
535.02	4 INCH WIDE WHITE LINE	LF	1210						
535.04	8 INCH WIDE WHITE LINE	LF	220						
535.07	24 INCH WIDE WHITE LINE	LF	961						
535.09	LEFT WHITE ARROW	EA	6						
535.3	24 INCH WIDE YELLOW LINE	LF	305						
535.32	YELLOW MEDIAN NOSE	EA	5						
537.1	TRAFFIC BUTTON (TYPE W)	EA	936						
537.2	TRAFFIC BUTTON (TYPE Y)	EA	2028						
537.6	PAVEMENT MARKER (TYPE I-C)	EA	129						
537.8	PAVEMENT MARKER (TYPE II A-A)	EA	863						



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CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS
 MANAGEMENT SERVICES
 DEPARTMENT

BLANCO ROAD SEG 1 ADD. ALT. 1

ESTIMATE & QUANTITIES
 BLANCO ROAD SEG 1
 ADDENDUM NO. 4

SHEET 1 OF 1

SUBMITTAL	PROJECT NUMBER	DATE
FINAL	40-00004	2/24/2012
DRWN BY:	DSGN BY:	CHKD BY:
		SHEET NO.
		9 A

ITEM	308.1	308.1	308.1	531.11	531.24	531.86	531.87	615.1	618.1	618.2	620.1	620.2	620.3	624.8
STATION / LOCATION	DRILLED SHAFTS (24')	DRILLED SHAFTS (30')	DRILLED SHAFTS (36')	R3-5L LEFT ONLY (30"x36") (HIGH INTENSITY)	R9-3a PEDESTRIAN CROSSING PROHIBITED (18"x18") (HIGH INTENSITY)	R9-3b USE CROSSWALK (18"x12") (HIGH INTENSITY)	R10-1 CROSS ONLY ON PED SIGNAL (9"x12") (HIGH INTENSITY)	TRAFFIC SIGNAL CONTROLLER ASSEMBLY (TYPE 332 CABINET)	CONDUIT (2 INCH / PVC SCHEDULE 40)	CONDUIT (3 INCH / PVC SCHEDULE 40)	ELECTRICAL CONDUCTORS (NO. 6) (BARE)	ELECTRICAL CONDUCTORS (NO. 6) (BARE)	ELECTRICAL CONDUCTORS (NO. 6) (INSULATED)	GROUND BOXES TYPE D (152922) WITH APRON
	LF	LF	LF	EA	EA	EA	EA	EA	LF	LF	LF	LF	LF	EA
BLANCO RD AND SANTA MONICA ST	5.7	22.6	26.4	1	0	0	8	1	35	672	15	386	30	4
BLANCO RD AND FRESNO	0.0	45.2	26.4	0	0	0	8	1	35	665	15	315	30	4
PROJECT TOTALS	5.7	67.8	52.8	1	0	0	16	2	70	1337	30	701	60	8

ITEM	628.1	633.1	655.1	660.2	661.1	662.10	662.23	662.30	662.4	664.1	664.1	665.4	666.30	666.31	666.41
STATION / LOCATION	ELECTRICAL SERVICES	BATTERY BACKUP FOR TRAFFIC SIGNAL	TYPE 332 CONTROLLER FOUNDATION	INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM)	TEMP TRAFFIC SIGNAL (PER INTERSECTION)	INS VEH SIG SECTION W/BACK PLATE (12 INCH)(3 SECONDS)	INS VEH SIG SECTION W/BACK PLATE (12 INCH)(4 SECONDS)	INS VEH SIG SECTION W/BACK PLATE (12 INCH)(5 SECONDS)	INSTALL PEDESTRIAN SIGNAL SECTIONS (12 IN) LED (2 IND)	TRAFFIC SIGNAL CABLES (TYPE A)(14AWG)(CONDUCTOR NO.4)	TRAFFIC SIGNAL CABLES (TYPE A)(14AWG)(CONDUCTOR NO.9)	SOLAR POWERED (PHOTOVOLTAIC) SCHOOL ZONE FLASHER ASSEMBLY	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 28')	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 28')(LSN)	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 32')(LSN)
	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	LF	EA	EA	EA	EA
BLANCO RD AND SANTA MONICA ST	1	1	1	1	1	8	1	0	8	501	1151	0	0	2	0
BLANCO RD AND FRESNO	1	1	1	1	1	8	2	0	8	492	1154	2	2	0	2
PROJECT TOTALS	2	2	2	2	2	16	3	0	16	993	2305	2	2	2	2

ITEM	666.51	666.61	666.280B	666.282B	667.1	668.2	669.3	669.1	669.2	664.1	664.2	664.4	664.5	665.3	665.4
STATION / LOCATION	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 36')(LSN)	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 40')(LSN)	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (2 ARM 28-20')(LSN)	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (2 ARM 28-28')(LSN)	PEDESTAL POLE ASSEMBLY	PEDESTRIAN DETECTORS (2 INCH PUSH BUTTON)	ILSN SIGN (LED) (6 FT) (SINGLE SIDED)	ILSN SIGN (LED) (6 FT) (DOUBLE SIDED)	ILSN SIGN (LED) (6 FT) (DOUBLE SIDED)	VIVDS PROCESSOR UNIT	VIVDS CAMERA ASSEMBLY	VIVDS SET-UP SYSTEM	VIVDS COMMUNICATION CABLE (COAXIAL)	EMERGENCY PREEMPTION DETECTOR	EMERGENCY PREEMPTION DETECTOR CABLE
	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	EA	LF	EA	LF
BLANCO RD AND SANTA MONICA ST	1	1	0	0	1	8	0	2	2	7	7	1	984	1	789
BLANCO RD AND FRESNO	0	2	0	0	0	8	0	4	0	9	9	1	1136	1	740
PROJECT TOTALS	1	3	0	0	1	16	0	6	2	16	16	2	2120	2	1529


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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS
MANAGEMENT SERVICES
DEPARTMENT

BLANCO ROAD SEG 1 ADD. ALT. 1

TRAFFIC SIGNAL SUMMARY
SEG 1 ADD. ALT. 1
ADDENDUM NO.4

SHEET 1 OF 1

SUBMITTAL	PROJECT NUMBER	DATE
FINAL	40-00004	2/24/2012
DRWN BY:	DSGN BY:	CHKD BY:

SHEET NO. 18

TRAFFIC NOTES AND SPECIAL CONDITIONS

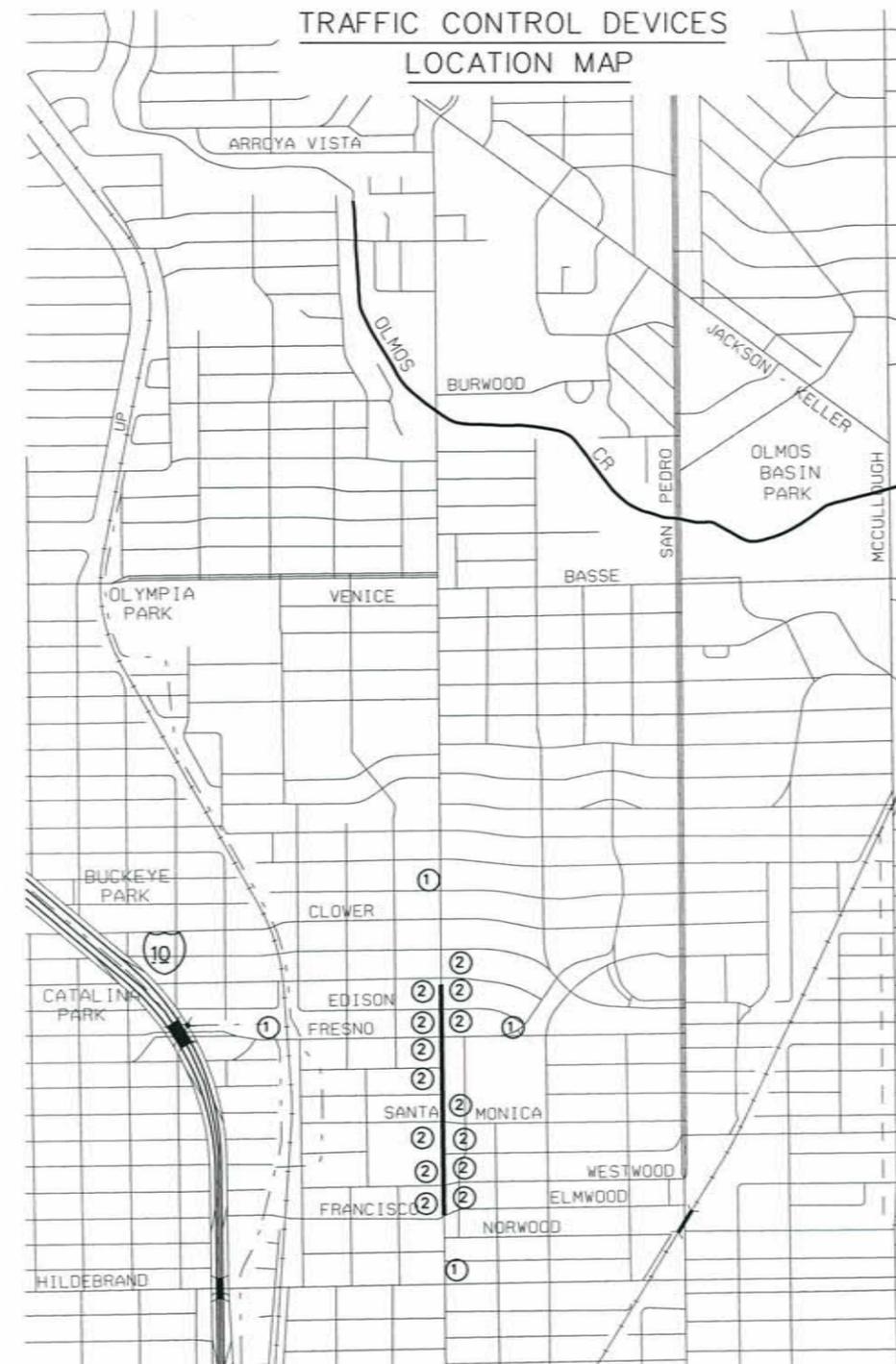
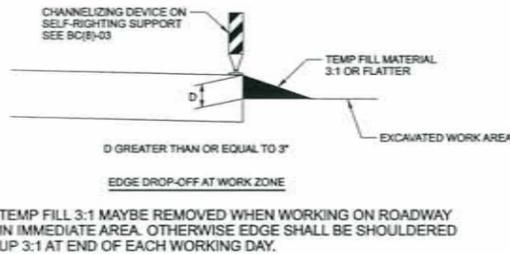
- It is the contractor's sole responsibility to see that all traffic control devices are properly installed and maintained at the job site in accordance with the plans, specifications and related industry standards and regulations. These notes, do not, in of themselves, constitute a Traffic Control Plan. In the event that these plans do not include traffic control, or that the Contractor wishes to vary from traffic control included with these plans, he shall submit for review a Traffic Control Plan sealed by a Professional Engineer registered in the State of Texas, including a sign and barricade plan conforming to the requirements of the Texas Manual on Uniform Traffic Control Devices. The City's construction observer / inspector (COI) and the traffic engineering representative will only be responsible to inspect the traffic control devices being deployed. If, in the opinion of the traffic engineering representative and the COI, the traffic control devices do not conform to established standards or are incorrectly placed or are insufficient in quantity to protect the general public, the COI shall have the option to stop construction operations at no expense to the City until such time as the conditions are corrected by the contractor.
 - Prior to starting construction, the contractor shall contact the City of San Antonio Traffic Operations Section at 207-7765 48 hours in advance for a traffic sign and traffic signal inventory. Prior to completion of the contract and removal of the barricades, the contractor shall again contact the Traffic Operations Section. The barricades shall not be removed until all applicable permanent traffic signs and signals are in place.
 - It is the contractor's responsibility to obtain and maintain temporary stop signs and all other traffic control devices required to protect the general public. If the City of San Antonio has removed permanent stop signs, the contractor shall request that the signs be returned to the construction site to be reinstalled by the contractor. All permanent signs or traffic control devices missing or damaged upon completion of construction shall be replaced at the contractor's expense.
 - The contractor must contact the City's COI 48 hours in advance (not including weekends) of any minor street closure. It will be the contractor's responsibility to advise the COI 10 days in advance of an arterial total street closure. This much time is necessary to install advisory signs and give the motorists a minimum of 7 days notice of the street closure. The COI after being notified will contact the traffic engineering office to make the necessary arrangements.
 - As work progresses, location of temporary traffic control devices will be adjusted and modified, as necessary by the contractor at contractor's expense.
 - If the need arises, additional temporary traffic control devices, special directional devices, and/or business name signs may be ordered by the traffic engineering representative at the contractor's expense.
 - Temporary traffic control devices shall conform to the City's "Typical Sign and Barricade Standards" sheets and to the Texas Manual on Uniform Traffic Control Devices.
 - The contractor must maintain all streets within project limits open to through traffic by repairing trenches, potholes, leveling up with asphalt, etc. at no direct payment, with the cost to be included in other items.
- This includes the use of Ty C HMAC to level up around raised utility valves and manholes at the direction of the Engineer. In these instances, the roadway will be leveled to the elevation of the valve or manhole a minimum of 2' on all sides, and transitioned at a maximum slope of 20:1 in all directions.
- The contractor shall be responsible for providing suitable access accommodations for school children and pedestrians.
 - The contractor shall provide access for delivery of mail by the U.S. Postal Service.
 - The contractor shall provide for access to residences and all businesses at all times within all the phases of the work.
 - When construction work necessitates the utilization of vehicle paths other than the lanes normally used, traffic control markings no longer applicable shall be removed and approved temporary pavement markings and signs installed in accordance with Part VI-D of the Texas Manual on Uniform Traffic Control Devices.
- After construction is completed and traffic is rerouted back to the original lanes, the traffic control markings and/or raised buttons that were originally removed from the existing pavement must be replaced. In addition, temporary markings must be removed. All of this is to be done at no direct payment; cost should be included in other items.
- Permanent pavement markings shall be applied prior to the opening of the completed street to traffic. Temporary additional short-term expendable pavement markings may be provided prior to the application of permanent markings in minimum lengths of 36', or raised pavement markings to delineate continuity until such time as standard pavement markings in normal lengths can be placed at no direct payment.
 - All temporary traffic control devices, etc. shall be provided by the contractor without direct payment, unless otherwise noted or stated.
 - The COI will monitor the contractor's traffic control devices and will be responsible to furnish all residents and businesses with an information flyer on all jobs during construction.
 - Any damage to permanent traffic signals, the controller box, loops or conduits during or upon completion of the project shall be repaired or replaced at the contractor's expense. The decision to repair, as opposed to replace, the damaged equipment shall be made by the City's Traffic Engineer.
 - The contractor is responsible for repairing all streets outside of the project limits which are damaged due to construction activities. The replaced section must be approved by the City's Street Engineer. There will be no direct payment for this work. The cost is to be included in other items.

TRAFFIC NOTES AND SPECIAL CONDITIONS

- Off-duty police officers will be required as directed by the Traffic Engineer at no direct payment, cost to be included in other Bid Items. This will be a requirement where two-way traffic is to be maintained.
- If split construction is shown, then the sanitary sewer shall be completed prior to beginning street and drainage construction, and traffic shall be maintained or detoured as directed by the Traffic Engineer. There will be no additional payment for the maintaining of traffic or detours.
- The contractor shall provide the city an emergency telephone number for evenings, weekends, and holidays by the first working day of the project. This telephone number must be a commercial answering service. The answering service must be able to contact the contractor and have the contractor respond to the City staff within two hours of the initial contact.
- The contractor shall maintain continuous access to all intersecting streets unless otherwise shown on these plans. When continuous access is scheduled to be blocked, the contractor shall contact the dispatchers for the Fire Department and EMS at (210) 227-8341 and the Police Department at (210) 207-2257, to apprise them of the pending street closure at least forty-eight hours in advance. If the closure falls along a bus route, the contractor shall also contact VIA at (210) 362-5220.
- The contractor shall maintain either the existing or temporary street name signs at each intersection onsite throughout construction. If the existing street name signs are used, they must be maintained in the condition encountered prior to the beginning of construction, and then be turned in to the City Inspector at the end of the project. If temporary signs are used during construction, they shall have a minimum of 4-inch letters, and may be fabricated with construction zone material (black legend on orange background, using plywood substrate, etc.).
- During normal school hours the contractor may only work from 9:00 AM to 2:30 PM in the vicinity of the school. If any work is commenced in this area contractor shall restore area for safe driving conditions.

NOTE:

- Certain signs must be used in conjunction with other signs. Example: "FLAGGER AHEAD" must have a "BE PREPARED TO STOP."
- Barricades and warning signs on this sheet are minimal construction zone signing. Additional barricades, warning signs, arrow panels, cones, etc. in accordance with BC(1) thru (12) and the Texas MUTCD may be required in areas of actual construction.
- See TCP sheets for additional signing requirements. Applicable TCP sheets for this project are: TCP (1-2)-98, (2-4)-03, (2-5)-03, (3-1)-98, (3-3)-98, (7-1)-98



NOT TO SCALE

Kyle Gass

KYLE GASS, P.E.
2/24/2012

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CITY OF SAN ANTONIO
CAPITAL IMPROVEMENTS
MANAGEMENT SERVICES
DEPARTMENT

BLANCO ROAD SEG 1 ADD. ALT. 1

SCHEDULE OF TRAFFIC CONTROL
AND ADVANCED WARNING
DEVICES
ADDENDUM NO. 4

SHEET 1 OF 1

SUBMITTAL	PROJECT NUMBER	DATE
FINAL	40-00004	2/24/2012
DRWN BY:	DSGN BY:	CHKD BY:
		SHEET NO.
		22

SCHEDULE OF TRAFFIC CONTROL DEVICES

LOCATION	USAGE	ROAD WORK AHEAD	NO CENTER STRIPE	COSA PROJECT SIGN	LOOSE GRAVEL	END ROAD WORK	FORM ONE LINE RIGHT/LEFT	UTILITY WORK AHEAD	DETOUR AHEAD	ROAD CLOSED AHEAD	LEFT/RIGHT LANE CLOSED	LEFT/RIGHT LANE CLOSED XXX FT	BE PREPARED TO STOP	NARROW LANES AHEAD	SHOULDER DROP OFF	UNEVEN LANES	LANE ENDS MERGE RIGHT/LEFT	ONE LANE ROAD AHEAD	SCW1-4R	SCW1-4L	CW20-7	ECW1-6A	SCW1-8	R4-1	R4-7b	R11-2	PORTABLE CHANGEABLE MESSAGE SIGN	SIDEWALK CLOSED
		CW20-10	CW8-12		CW8-7	G20-2a	R20-2R, -2L	CW20-10	CW20-2D	CW20-3D	CW20-5R, -5L	CW20-5R, -5L PLAUQUE	CW20-7b	CW20-8	CW8-9a	CW8-11	SCW9-2R, -2L	CW20-4D								(TY 10)	R9-9	
1	APPROACHES TO PROJECT	X		X		X																				X		
2	SIDE STREET APPROACHES	X				X																						
X	AS DIRECTED		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	

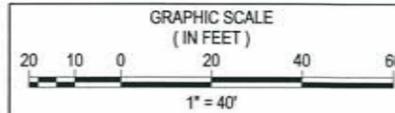
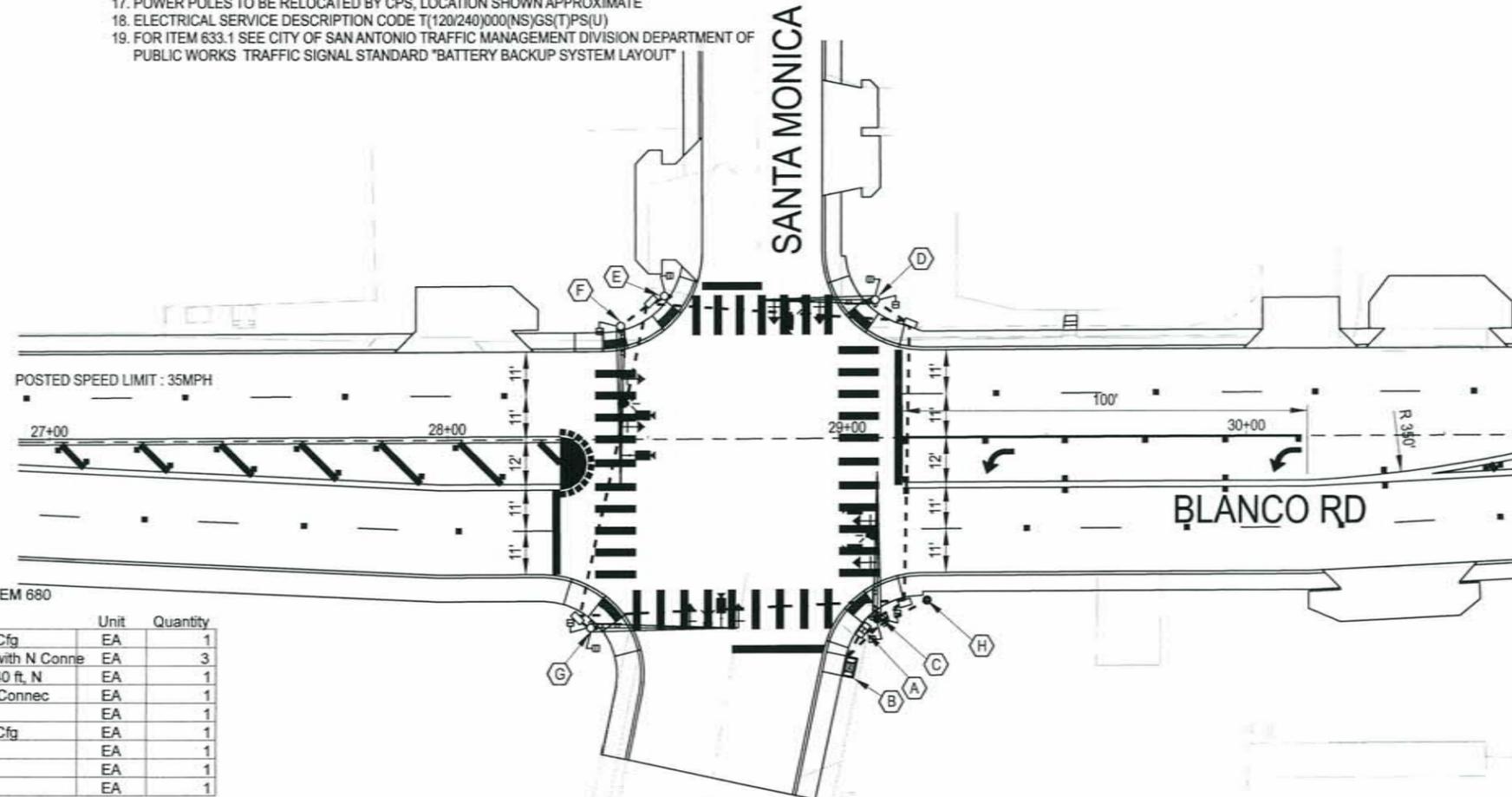
	DESCRIPTION	UNIT	QTY
308.1	DRILLED SHAFTS (24")	LF	5.7
308.1	DRILLED SHAFTS (30")	LF	22.6
308.1	DRILLED SHAFTS (36")	LF	26.4
531.1	R3-5L LEFT ONLY (30"x36")(HIGH INTENSITY)	EA	1
531.9	R9-3b USE CROSSWALK (18"x12")(HIGH INTENSITY)	EA	0
531.9	R10-1 CROSS ONLY ON PED SIGNAL (9"x12")(HIGH INTENSITY)	EA	8
615.1	TRAFFIC SIGNAL CONTROLLER ASSEMBLY (TYPE 332 CABINET)	EA	1
618.1	CONDUIT (2 INCH / PVC SCHEDULE 40)	LF	35
618.2	CONDUIT (3 INCH / PVC SCHEDULE 40)	LF	672
620.1	ELECTRICAL CONDUCTORS (NO. 6) (BARE)	LF	15
620.2	ELECTRICAL CONDUCTORS (NO. 8) (BARE)	LF	386
620.3	ELECTRICAL CONDUCTORS (NO. 6) (INSULATED)	LF	30
624.8	GROUND BOXES TYPE D (162922) WITH APRON	EA	4
628.1	ELECTRICAL SERVICES	EA	1
633.1	BATTERY BACKUP FOR TRAFFIC SIGNAL	EA	1
655.1	TYPE 332 CONTROLLER FOUNDATION	EA	1
680.2	INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM)	EA	1
681.1	TEMP TRAFFIC SIGNAL (PER INTERSECTION)	EA	1
682.1	INS VEH SIG SECTION W/BACK PLATE (12 INCH)(3 SECONDS)	EA	8
682.2	INS VEH SIG SECTION W/BACK PLATE (12 INCH)(4 SECONDS)	EA	1
682.4	INSTALL PEDESTRIAN SIGNAL SECTIONS (12 IN) LED (2 IND)	EA	8
684.1	TRAFFIC SIGNAL CABLES (TYPE A)(14AWG)(CONDUCTOR NO.4)	LF	501
684.1	TRAFFIC SIGNAL CABLES (TYPE A)(14AWG)(CONDUCTOR NO.9)	LF	1151
686.3	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 28")(ILSN)	EA	2
686.5	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 36")(ILSN)	EA	1
686.6	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 40")(ILSN)	EA	1
687.1	PEDESTAL POLE ASSEMBLY	EA	1
688.2	PEDESTRIAN DETECTORS (2 INCH PUSH BUTTON)	EA	8
693.1	ILSN SIGN (LED) (6 FT) (DOUBLE SIDED)	EA	2
693.2	ILSN SIGN (LED) (8 FT) (DOUBLE SIDED)	EA	2
694.1	VIVDS PROCESSOR UNIT	EA	7
694.2	VIVDS CAMERA ASSEMBLY	EA	7
694.2	VIVDS SET-UP SYSTEM	EA	1
694.2	VIVDS COMMUNICATION CABLE (COAXIAL)	LF	984
694.2	EMERGENCY PREEMPTION DETECTOR	EA	1
694.2	EMERGENCY PREEMPTION DETECTOR CABLE	LF	789

CONSTRUCTION NOTES:

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- CONTRACTOR SHALL ATTEND PRE-CONSTRUCTION MEETING WITH THE ENGINEER PRIOR TO INITIATING ANY TRAFFIC SIGNAL RELATED WORK.
- CONTRACTOR SHALL CONTACT THE ENGINEER AT LEAST SEVEN (7) DAYS PRIOR TO BEGINNING ANY CONSTRUCTION. THE CITY WILL PROVIDE ALL ON-SITE INSPECTION OF CONSTRUCTION AND SHALL BE THE SOLE AUTHORITY TO DETERMINE THE ADEQUACY OF MATERIALS AND CONSTRUCTION.
- CONTRACTOR SHALL UNCOVER AND LOCATE ALL MARKED UNDERGROUND FACILITIES PRIOR TO EXCAVATING FOR DRILLED SHAFT FOUNDATIONS. UTILITIES SHOWN ARE BASED ON INFORMATION PROVIDED BY UTILITY AGENCIES AND VISUAL FIELD OBSERVATION. PROPERTY LINES SHOWN ARE APPROXIMATE, TAKEN FROM BEXAR APPRAISAL MAPS.
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- FURNISHING AND INSTALLATION OF THIS CONDUIT SHALL BE SUBSIDIARY TO THE POLE FOUNDATION.
- ALL SIGNS MOUNTED ON TRAFFIC SIGNAL EQUIPMENT SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR AS SHOWN ON THE PLANS.
- SALVAGE MATERIAL SHALL BE DETERMINED BY THE CITY INSPECTOR AND DELIVERED TO THE CITY OF SAN ANTONIO TRAFFIC OPERATIONS FACILITY LOCATED AT 223 SOUTH CHERRY, SAN ANTONIO, TEXAS 78203. THE CONTRACTOR SHALL CONTACT THE CITY SERVICES & SUPPLY SUPERINTENDENT, AT (210) 207-7771 SEVEN (7) DAYS PRIOR TO DELIVERY OF THE SALVAGED MATERIAL. THE CONTRACTOR SHALL BECOME THE OWNER AND DISPOSE OF UNSALVAGED MATERIAL IN ACCORDANCE WITH FEDERAL, STATE, AND LOCAL REGULATIONS.
- THE CONTRACTOR SHALL PROVIDE THE EQUIPMENT FOR COMMUNICATION TO THE SIGNAL AS PER SIGNAL COMMUNICATION TABLE
- THE CONTRACTOR SHALL FURNISH AND INSTALL AN ENCLOSED PHOTOCELL IN THE ELECTRICAL SERVICE TO POWER THE ILSN SIGNS. FURNISHING AND INSTALLATION OF THE PHOTOCELL SHALL BE SUBSIDIARY TO ITEM 632.01 "ELECTRICAL SERVICE PEDESTAL"
- TRAFFIC SIGNAL TO REMAIN IN OPERATION AT ALL TIMES, EXCEPT AS COORDINATED WITH THE CITY TRAFFIC SIGNAL ENGINEER
- IF WIRELESS COMMUNICATION EQUIPMENT IS PROVIDED BY THE CONTRACTOR, THE EQUIPMENT SHALL BE DELIVERED TO COSA SIGNAL SHOP FOUR (4) WEEKS IN ADVANCE OF TRAFFIC SIGNAL OPERATION FOR TESTING AND PROGRAMMING.
- THE CONTRACTOR SHALL INSTALL WIRELESS COMMUNICATION EQUIPMENT IN THE FIELD AS NOTED IN THE PLANS AND AS DIRECTED BY COSA INFORMATION TECHNOLOGY SERVICES DEPARTMENT (ITSD). FINAL LOCATION OF THE WIRELESS COMMUNICATION EQUIPMENT SHALL BE APPROVED BY ITSD BEFORE INSTALLATION. THE CONTRACTOR SHALL COORDINATE WITH ITSD TO PREPARE SIGNAL STRENGTH SURVEY AND DETERMINE LOCATION FOR BRIDGE, IF SPECIFIED, AND ACCESS POINT. ALL WIRELESS MESH COMMUNICATION EQUIPMENT AND INSTALLATION SHALL BE SUBSIDIARY TO ITEM 680.
- POWER POLES TO BE RELOCATED BY CPS. LOCATION SHOWN APPROXIMATE
- ELECTRICAL SERVICE DESCRIPTION CODE T(120/240)000(NS)GS(T)PS(U)
- FOR ITEM 633.1 SEE CITY OF SAN ANTONIO TRAFFIC MANAGEMENT DIVISION DEPARTMENT OF PUBLIC WORKS TRAFFIC SIGNAL STANDARD "BATTERY BACKUP SYSTEM LAYOUT"

TRAFFIC SIGNAL LEGEND

- PROP. GROUND BOX
- PROP. STEEL POLE W/MAST ARM
- PROP. ILSN SIGN
- PROP. SERVICE PEDESTAL W/METER
- PROP. SIGNAL CONDUIT
- PROP. CONTROLLER CABINET
- PROP. PED. BUTTON ON SIGNAL POLE
- PROP. PEDESTRIAN SIGNAL
- PROP. VIVDS CAMERA
- PROP. OPTICOM DETECTOR
- PROP. WIRELESS AP
- CONTROLLER/POLE IDENTIFIER
- CABLE RUN IDENTIFIER
- SIGNAL HEAD IDENTIFIER
- SIGN IDENTIFIER
- STREET @ STATION
- PROP. OVERHEAD FLASHING BEACON
- PROP. LED SIGNAL W/BACK PLATE
- PROP. LED SIGNAL W/BACK PLATE & LEFT TURN INDICATION



Julio Ramos
 JULIO RAMOS, P.E.
 2/24/2012

CD DON DURDEN, INC.
 d.b.a. CIVIL ENGINEERING CONSULTANTS
 11550 IH 10 WEST, SUITE 395
 SAN ANTONIO, TEXAS 78230-1037
 TEL: (210) 841-9999
 FAX: (210) 841-8440
 REGISTRATION #F-2214

**CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS
 MANAGEMENT SERVICES
 DEPARTMENT**

BLANCO ROAD SEG 1 ADD. ALT. 1

**INTERSECTION LAYOUT
 SANTA MONICA ST
 ADDENDUM NO.4**

SHEET 2 OF 3

SUBMITTAL	PROJECT NUMBER	DATE
FINAL	40-00004	2/24/2012
DRWN BY:	DSGN BY:	CHKD BY:
		SHEET NO.
		173

WIRELESS COMMUNICATION EQUIPMENT SHALL BE SUBSIDIARY TO ITEM 680

Component	Part No.	Item Description	Unit	Quantity
Wireless Access Point	AIR-LAP1522AG-AK9	802.11a, b/g Outdoor Mesh AP, FCC Cfg	EA	1
	AIR-ANT2480V-N	2400-2483.5 MHz, 8.0 dBi Omni Ant, with N Conne	EA	3
	AIR-CORD-R3P-40NA	Aironet 1520 Series AC Power Cord, 40 ft, N	EA	1
	AIR-ANT5180V-N	4900-5850 MHz, 8.0dBi OMNI with N Connec	EA	1
	AIR-ACCPMK1520	1520 Series Pole Mount Kit	EA	1
	SMARTNET 8X5XNB	802.11a, b/g Outdoor Mesh AP, FCC Cfg	EA	1
	UK 6-FSI/C	Fuse Holder	EA	1
	TCP 3, OA	3 Amp Fuse Breaker	EA	1
	TCP 5, OA	5 Amp Fuse Breaker	EA	1

Component	Part No.	Item Description	Unit	Quantity
Ethernet Switch	WS-C2955S-12	2955 12 TX W/SM UPLINKS	EA	1
	CISCO STK-RACKMNT-19	19 IN RACK MOUNT KIT	EA	1
	PWR-2955-AC	CISCO, AC TO 24 V DC DIN RAIL PW	EA	1
	CON-SNTWSC2955S	SMARTNET 8X5XNBD 2955 12 TX w/Single Mod	EA	1
	UK 6-FSI/C	Fuse Holder	EA	1
	TCP 3, OA	3 Amp Fuse Breaker	EA	1
TCP 5, OA	5 Amp Fuse Breaker	EA	1	

NOTE: QUANTITIES OF WIRELESS COMMUNICATION EQUIPMENT TO BE FURNISHED BY THE CONTRACTOR AND INSTALLED BY COSA. ITEMS SUSIDIARY TO ITEM 680.

Component	Part No.	Item Description	Unit	Quantity
Wireless Access	VNTC 16-3-R10K-BED	27331A 01010000 BELDEN (Power Cable)	LF	300
	7919A 01001000	IND ETH 5E4P24 HLD (Ethernet Cable)	LF	300

QUANTITIES OF WIRELESS COMMUNICATION EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR

TRAFFIC SIGNAL ITEM LOCATIONS		
ITEM	BLANCO & SANTA MONICA	OFFSET
A	29+04	48'-R
B	28+99	58'-R
C	29+07	46'-R
D	29+07	36'-L
E	28+54	30'-L
F	28+43	28'-L

NOTE: ALL LOCATIONS ARE SUBJECT TO THE DIRECTION OF THE CITY TRAFFIC ENGINEER.

QTY	UNIT	DESCRIPTION
0	LF	DRILLED SHAFTS (24")
45.2	LF	DRILLED SHAFTS (30")
26.4	LF	DRILLED SHAFTS (36")
8	EA	R10-1 CROSS ONLY ON PED SIGNAL (9'x12") (HIGH)
1	EA	TRAFFIC SIGNAL CONTROLLER ASSEMBLY (TYPE 332)
35	LF	CONDUIT (2 INCH / PVC SCHEDULE 40)
685	LF	CONDUIT (3 INCH / PVC SCHEDULE 40)
15	LF	ELECTRICAL CONDUCTORS (NO. 8) (BARE)
315	LF	ELECTRICAL CONDUCTORS (NO. 8) (BARE)
30	LF	ELECTRICAL CONDUCTORS (NO. 6) (INSULATED)
4	EA	GROUND BOXES TY D (162922) WITH APRON
1	EA	ELECTRICAL SERVICES
1	EA	BATTERY BACKUP FOR TRAFFIC SIGNAL
1	EA	TYPE 332 CONTROLLER FOUNDATION
1	EA	INSTALLATION OF HIGHWAY TRAFFIC SIGNALS (SYSTEM)
1	EA	TEMP TRAFFIC SIGNAL (PER INTERSECTION)
8	EA	INS VEH SIG SECTION W/BACK PLATE (12 INCH)(3 SECONDS)
2	EA	INS VEH SIG SECTION W/BACK PLATE (12 INCH)(4 SECONDS)
8	EA	INSTALL PEDESTRIAN SIGNAL SECTIONS (12 IN) LED (2 IND)
492	LF	TRAFFIC SIGNAL CABLES (TYPE A)(14AWG)(CONDUCTOR NO.4)
1154	LF	TRAFFIC SIGNAL CABLES (TYPE A)(14AWG)(CONDUCTOR NO.9)
2	EA	SOLAR POWERED (PHOTOVOLTAIC) SCHOOL ZONE FLASHER ASSEMBLY
2	EA	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 28')
2	EA	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL) (1 ARM 32')(ILSN)
2	EA	INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL)
8	EA	PEDESTRIAN DETECTORS (2 INCH PUSH BUTTON)
4	EA	ILSN SIGN (LED) (6 FT) (DOUBLE SIDED)
9	EA	VIVDS PROCESSOR UNIT
9	EA	VIVDS CAMERA ASSEMBLY
1	EA	VIVDS SET-UP SYSTEM
1136	LF	VIVDS COMMUNICATION CABLE (COAXIAL)
1	EA	EMERGENCY PREEMPTION DETECTOR
740	LF	EMERGENCY PREEMPTION DETECTOR CABLE

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 - ELECTRICAL SERVICE DESCRIPTION CODE T(120/240)000(NS)GS(T)PS(U)
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WIRELESS COMMUNICATION EQUIPMENT SHALL BE SUBSIDIARY TO ITEM 680

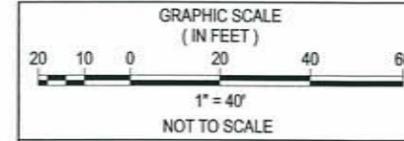
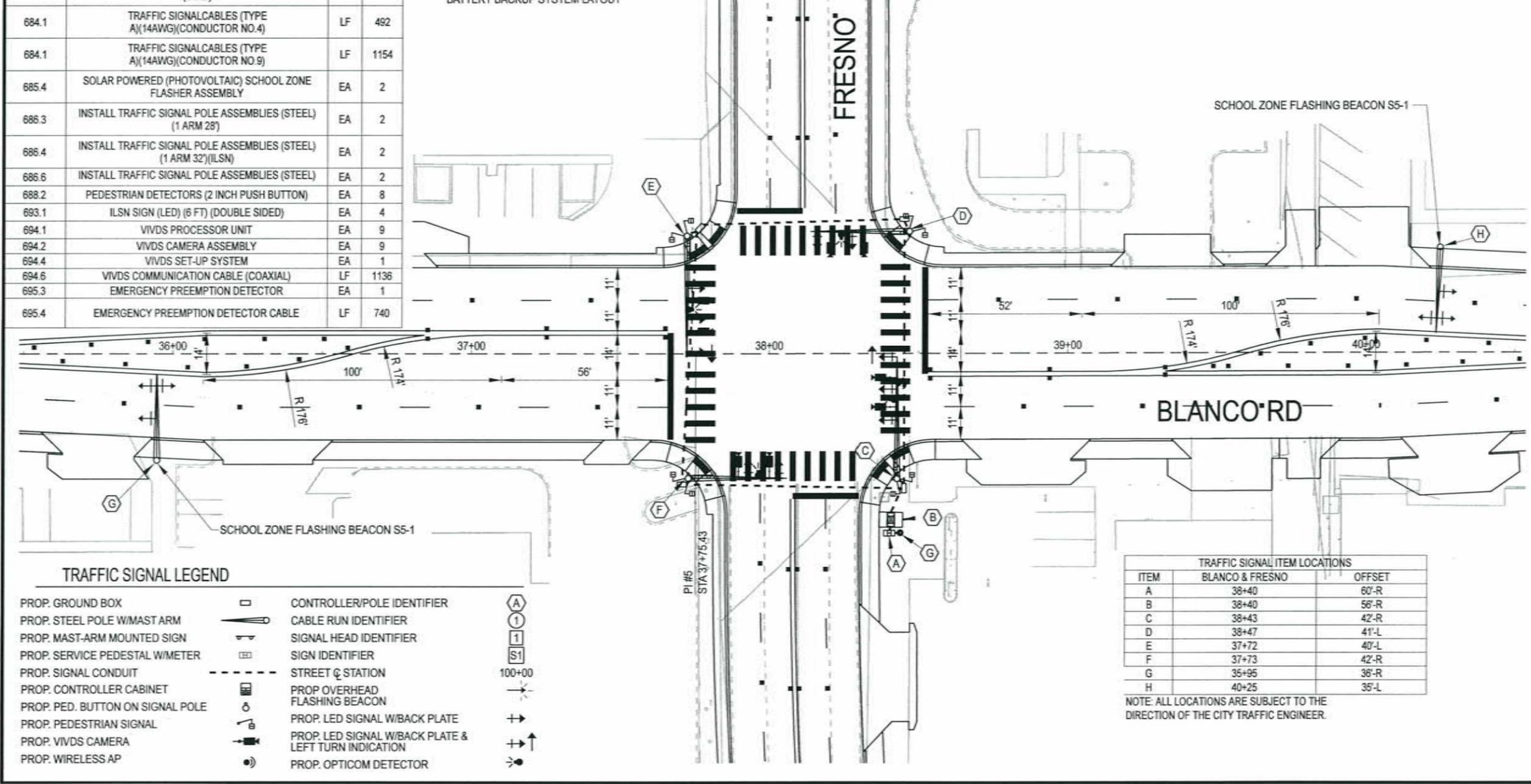
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QUANTITIES OF WIRELESS COMMUNICATION EQUIPMENT TO BE FURNISHED AND INSTALLED BY CONTRACTOR



STATE OF TEXAS
 JULIO RAMOS
 107672
 LICENSED PROFESSIONAL ENGINEER

Julio Ramos
 JULIO RAMOS, P.E.
 2/24/2012

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CITY OF SAN ANTONIO
 CAPITAL IMPROVEMENTS
 MANAGEMENT SERVICES
 DEPARTMENT

BLANCO ROAD SEG 1 ADD. ALT. 1

INTERSECTION LAYOUT
 FRESNO
 ADDENDUM NO.4

SHEET 2 OF 3

SUBMITTAL	PROJECT NUMBER	DATE
FINAL	40-00004	2/24/2012

DRWN BY:	DSGN BY:	CHKD BY:	SHEET NO.
			126

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

RECEIPT OF ADDENDUM NUMBER(S) 4 IS HEREBY ACKNOWLEDGED FOR PLANS AND

SPECIFICATIONS FOR CONSTRUCTION OF BLANCO ROAD – FROM HILDEBRAND TO JACKSON
KELLER

FOR WHICH BIDS WILL BE OPENED ON TUESDAY, FEBRUARY 28, 2012 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