

CITY OF SAN ANTONIO
DEPARTMENT OF CAPITAL IMPROVEMENTS
MANAGEMENT SERVICES

PROJECT NAME: MARBACH ROAD PH IIB
CIMS PROJECT NO. 40-00308

DATE: DECEMBER 6, 2013

ADDENDUM NO. 1

This addendum shall be included in and be considered part of the plans and specifications for the above named project. All bidders shall be required to sign an acknowledgment of the receipt of this addendum and submit with their bid.

Addendum No. 1 is issued to notify, add, change and replace the following:

- 1) Pre-Bid Conference Meeting Minutes
 - a. A copy of the Pre-Bid Conference Meeting Minutes held on December 3, 2013 is included in this addendum.

- 2) 020 BID FORM: The Form 020 BID FORM originally stated the estimated construction budget for this contract was \$3,290,700.00. The revised 020 BID FORM, now states the estimated construction budget for this contract is \$4,415,500.00. The estimated construction budget breakdown is:

Roadway	\$ 3,077,733.52
SAWS sewer	\$ 165,865.54
SAWS water	\$ 1,020,377.56
CPS Gas	\$ <u>151,501.87</u>
Total	\$ 4,415,478.49

- 3) 025 UNIT PRICING FORM: The revised 025 Unit Pricing Form shows changes made to the CoSA BASE BID ITEMS. Substitute and utilize the revised 025 UNIT PRICING FORM attached.

- 4) CONSTRUCTION SPECIFICATIONS: The List of Governing Specifications have been revised and are attached.
 - a. Special Provision to Item 106 and Item 205 is added to the List of Governing Specifications.

- 5) CoSA PLANS: The proposed median on Marbach Road was adjusted from Sta 80+50 to Sta 83+57. Replace the following Plan Sheets that reflect this change:
 - a. Sheet 7, Typical Sections
 - b. Sheet 12, Project Quantities Summary
 - c. Sheet 115, Roadway Plan & Profile
 - d. Sheet 122, Intersection Layout
 - e. Sheet 171, Signing & Pavement Markings

- 6) CoSA PLAN CLARIFICATIONS: A note “ Marbach median is not to be constructed from Sta 80+50 to Sta 83+57” has been added to the following CoSA Plan Sheets:
 - a. Sheet 3, Project Layout
 - b. Sheet 29, Traffic Control Plan – Typical Sections
 - c. Sheet 65, Traffic Control Plan – Phase 3A Overall Layout
 - d. Sheet 68, Traffic Control Plan - Phase 3A Layouts
 - e. Sheet 73, Traffic Control Plan – Phase 3B Overall Layout
 - f. Sheet 76, Traffic Control Plan – Phase 3B Layouts
 - g. Sheet 102, SW3P Layouts – Phase 3A
 - h. Sheet 103, SW3P Layouts – Phase 3B
 - i. Sheet 119, Plan & Profile Sheets – Marbach Rd
 - j. Sheet 142, Drainage Plan & Profiles – Marbach Rd
 - k. Sheet 144, Drainage Plan & Profiles – Cross-Streets
 - l. Sheet 188, Traffic Signal Layouts
 - m. Sheet 189, Traffic Signal Notes

- 7) Temporary Traffic Signal at Meadow Way quantity has been added to the 025 Unit Pricing Form.

- 8) SAWS WATER PLANS: A 12” gate valve has been added to the plans. Replace the following Plan Sheets:
 - a. Sheet 2, Water General Notes & Quantities
 - b. Sheet 5, Water Plans

- 9) SAWS WATER PLAN CLARIFICATIONS:
 - a. Sheet 4 of 12 - The proposed top of pipe shall be a minimum of 4 feet from the final grade for all details on this sheet.
 - b. Sheet 6 of 12 - The proposed top of pipe shall be a minimum of 4 feet from the final grade for all details on this sheet.
 - c. Sheet 9 of 12 - The proposed top of pipe shall be a minimum of 4 feet from the final grade for all details on this sheet.
 - d. Sheet 10 of 12 - Note #7 from general water notes shall pertain to the proposed 36" CSC water main tie-in.

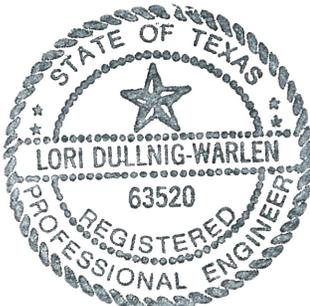
- e. Sheet 11 of 12 - The proposed 12" Flanged Outlet, RT located at Marbach Road STA 83+82.00 shall be a 36"x12" CSC Tee, FLG Outlet.
 - f. Sheet 12 of 12 - Note #7 from general water notes shall pertain to the proposed 36" CSC water main tie-in.
- 10) SAWS SANITARY SEWER PLAN CLARIFICATIONS:
- a. Sheet 4 of 5 - The existing 8" Sanitary Sewer VCP located on Harness Road STA 10+00.00 should read existing 8" Sanitary Sewer HDPE.
 - b. Sheet 5 of 5 - The proposed removal of the 8" Sanitary Sewer (where it crosses the three storm inlets) located south of Marbach Road shall be plugged both ends at each storm inlet.
- 11) Addendum Acknowledgement Form:
- a. Attached is the Addendum Acknowledgement Form. Please fill out and sign the form and include with the bid package to acknowledge receipt of addenda.

ATTACHMENTS

- Pre-Bid Meeting Minutes (3 Pages)
- Revised 020 Bid Form (1 page)
- Revised 025 Unit Pricing Form (7 pages)
- Revised List of Governing Specifications (7 pages)
- Special Provision Item 106 and Item 205 (Summary 9 Pages)
- Revised Typical Sections, Sheet 7 (1 Page)
- Revised Project Quantities Summary, Sheet 12 (1 Page)
- Revised Roadway Plan & Profile, Sheet 115 (1 Page)
- Revised Intersection Layout, Sheet 122 (1 Page)
- Revised Signing & Pavement Markings, Sheet 171 (1 Page)
- Revised SAWS Water General Notes & Quantities, Sheet 2 (1 Page)
- Revised SAWS Water Plans, Sheet 5 (1 Page)
- Addendum Acknowledgement Form (1 Page)


LORI DULLNIG-WARLEN, P.E.

12/6/13
DATE



END OF ADDENDUM No. 1

Page 3 of 3
Addendum No. 1
December 6, 2013

MINUTES OF PRE-BID CONFERENCE

PROJECT: MARBACH PH II B (MEADOW WAY TO LOOP 410) 2012 BOND PROJECT
DATE OF PRE-BID: TUESDAY, DECEMBER 3, 2013 at 10:30 a.m.
LOCATION: 114 W. Commerce, Plaza C Room

Meeting opened with an Introduction by attendees (See Sign-In Sheet).

Topics of Discussion

Marbach PH IIB Contract Information:

- Contract Documents found in the City Website. Discussion on the documents available on website. Original signature required on certain forms that are to be submitted.
- Deadline to submit written questions is December 6, 2013 at 2:00 pm
- Bid Opening date scheduled for December 17, 2013 @ 2:00 PM.
- Low-bid project.
- Estimated Construction Cost for project is \$4,345,000.
- Total Construction Duration is 412 calendar days. 6 day workweek
- Anticipated Construction Start Date is in March 2014.

Any questions on bid should be asked in writing either to the City or to the Consultant on or before Friday, December 6th before 2:00pm. Respondents are prohibited from communication with the city staff and city officials regarding solicitations with the exception of contacting Juanita Romero with any questions regarding eligibility requirements.

Last addendum is to be issued on or before December 6th . All Addendums will be posted on City website.

Presentations by:

- Juanita Romero (CIMS) Contract Officer. The following must be met to be in compliance:
 - Bid Opening is Dec 17 @ 2:00pm
 - Deadline for Questions Dec 6 @ 2:00 pm
 - Form 020 should have the full project cost amount (CoSA, SAWS and CPS), it is in Word format on the website
 - Form 025 is on the website
 - Form 040 is on the website
 - Form 050 is on the website
 - Form 060 is on the website, This project has 412 days for construction, with Saturday work and \$1500 liquidated damages

- SEBDA Goals are 25% SBE and 17% M/WBE
- The Prevailing Wage Rates to use for this contract dated January 4, 2013.
- Must use classifications listed in this Wage Rate for workers, and pay Hourly Rate designated for classification the worker falls under. If unclear as to what classification to use, should contact (Juanita Romero) to assist in classifying worker.
- Must observe (7) City designated Holidays, and if working during these holidays, workers must get paid time and a half.
- Must pay workers time and a half for hours exceeding the normal 40 hours per week.
- Apprentices must be under US Apprentice program. Contractor must submit receipts, registration forms, and Department of Labor letter as proof.
- General Contractor responsible for submitting certified payrolls for all subs. Field audits are conducted to make sure workers are getting paid accordingly to classification. If workers are under paid according to classification, there is \$60.00 penalty.
- Make sure to sign bid, there are multiple locations that require signatures

➤ Thomas Gonzalez (COSA/CIMS) – Project Scheduling

The Contractor should use only one of the following software for project scheduling during construction.

- 6.1 Primavera
- 5.1 Enterprise (or higher)
- 4.1 Contractor (or higher)

The following lower versions are not acceptable: excel, MS project, Suretrak Contractor Version can be purchased for \$1700 on oracle.com.

CIMS will provide the construction schedule Template to use. No cost loading required. Contractor should update every month. Recovery plans and any delays will be incorporated into the monthly update.

PROJECT SCOPE AND BACKGROUND:

John Offer CPS

Electric - O/H complete. All Poles have been relocated (shown on plans)

Gas line construction is a joint bid. Gas main near poles on north side will need bracing. It will be the contractors responsibility to get permission from the customer in writing to set bracing on their property. The contractor will need to make all necessary repairs after removal of the bracing to the customer's property.

Dan Lanctot and Nathan Kalinec SAWS portion is joint bid:

Water shut off times will need to go thru Nathan for the tie ends. The 36" CSC water line tie ends will need to be coordinated well in advance of construction (more than the normal 48 hours).

David Pulido City Portion is:

Construction of Marbach Road Phase IIB will reconstruct Marbach Road from Meadow Way to Loop 410. Harness Lane from Marbach Road to Latigo Road, and a portion of Latigo Road. The proposed improvements include 5 lanes with raised concrete median, underground drainage,

curbs, sidewalks, driveway approaches, retaining walls, concrete bus pads, VIA shelter foundations and 1 traffic signal upgrade. This is the continuation of the 2007-2012 bond project named Marbach Road, Phase IIA (Military Drive to Meadow Way).

Joint bid Utilities are SAWS water & sewer; CPS Energy Gas.

Design Consultant is Bain Medina Bain, Inc.

AT&T infrastructure has been relocated. AT&T splicing to be completed by the end of January 2014. Existing flowable fill note is within the plans.

TxDOT Coordination needs to be maintained during TCP. Construction Maintenance Agreement (CMA)

Environmental – TxDOT Blanket Categorical Extension Permit (BCE)

Asphalt Operations shall use a Laydown machine only – Addendum 1 will have the revised spec.

Trench backfilling procedures – Addendum 1 will have the revised spec

Plan changes in the Addendum are Median adjustment between Harness and Meadow Way and Temporary Traffic Signal at Meadow Way.

Public Relations – Coordination with NISD due to Projects location near John Jay High School, Council District 4&6, Neighborhood associations- Meadow Village/Lackland Terrace/ Cable Westwood NA's. There will be a Here We Come Meeting and Groundbreaking Ceremony will be scheduled.

Alan Lopez and (COSA/CIMS Construction) will be managing the project during construction.

Open for Questions. No questions from Contractors.

Addendum No. 1 will be issued to include Meeting Minutes, Form 020, Form 025, additional specification item to the List of Governing Specifications, Revised Plan sheets and any questions and answers on the project.

END OF PRE-BID CONFERENCE

CITY OF SAN ANTONIO

Project Name: Marbach Road Phase II B

ID NO.: 40-00308

The estimated construction budget for this contract is \$4,415,500.00

Date Issued: November 20, 2013

Page 1 of 1

Date Revised: December 6, 2013

020 BID FORM

I. BASE BID

Total Amount of Base Bid (Insert Amount in Words and Numbers):

_____ \$ _____

Amount of Street/Roadway Construction Base Bid (Insert Amount in Words and Numbers):

_____ \$ _____

Amount of SAWS Water Base Bid (Insert Amount in Words and Numbers):

_____ \$ _____

Amount of SAWS Sewer Base Bid (Insert Amount in Words and Numbers):

_____ \$ _____

Amount of CPS Gas Base Bid (Insert Amount in Words and Numbers):

_____ \$ _____

II. UNIT PRICES

Bidders shall submit unit pricing on the 025 Unit Pricing form, and it shall be attached immediately following this sheet.

Name of the proposed **Project Manager**: _____

Name of the proposed **Site Superintendent**: _____

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: MARBACH ROAD PHASE IIB
PROJECT NO. 40-00308

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
				The City only will accept bid pricing to the hundredths. Any pricing extended out to three decimal points will be truncated to two decimal points in the City's favor.					
COSA - BASE BID									
	100.1			Mobilization	LS	1		\$0.00	
	100.2			Insurance & Bond	LS	1		\$0.00	
	101.1			Preparing Right of Way	LS	1		\$0.00	
	103.1			Remove Concrete Curb	LF	4,088		\$0.00	
	103.3			Remove Concrete Sidewalks and Driveways	SF	19,146		\$0.00	
	103.4			Remove Miscellaneous Concrete - Combination Wal	SF	666		\$0.00	
	104.1			Street Excavation	CY	5,128		\$0.00	
	106.1			Box Culvert Excavation and Backfill	CY	5,091		\$0.00	
	108.1			Lime Treated Subgrade (6 inches compacted depth)	SY	12,855		\$0.00	
	108.2			Lime (Slurry)	TON	238		\$0.00	
	200.1			Flexible Base (4 inches compacted depth)	SY	449		\$0.00	
	203.1			Tack Coat	GAL	1,560		\$0.00	
	205.2			Hot Mix Asphaltic Pavement Type B (Temp Sidewalk)(3 inches)	SY	669		\$0.00	
	205.2			Hot Mix Asphaltic Pavement Type B (Temp Driveway)(3 inches)	SY	746		\$0.00	
	205.2			Hot Mix Asphaltic Pavement Type B (6 inches)	SY	4,056		\$0.00	
	205.2			Hot Mix Asphaltic Pavement Type B (10 inches)	SY	8,261		\$0.00	
	205.4			Hot Mix Asphaltic Pavement Type D (2 inches)	SY	15,592		\$0.00	
	208.1			Salvaging, Hauling, and Stockpiling R.A.P. (2 inches)	SY	5,574		\$0.00	
	209.1			Concrete Pavement (10" Deep)(Bus Pad)	SY	1,070		\$0.00	
	307.1			Concrete Structure (Headwall)	CY	2		\$0.00	
	308.1			Drill Shafts (24")	LF	23		\$0.00	
	308.1			Drill Shafts (30")	LF	34		\$0.00	
	308.1			Drill Shafts (36")	LF	16		\$0.00	
	309.1			3'X3' Precast Reinforced Concrete Box Culvert	LF	208		\$0.00	
	309.1			4'X4' Precast Reinforced Concrete Box Culvert	LF	415		\$0.00	
	309.1			5'X5' Precast Reinforced Concrete Box Culvert	LF	559		\$0.00	
	401.1			Reinforced Concrete Pipe (Class III)(18 inch dia)	LF	61		\$0.00	
	401.1			Reinforced Concrete Pipe (Class III)(24 inch dia)	LF	460		\$0.00	
	401.1			Reinforced Concrete Pipe (Class III)(30 inch dia)	LF	115		\$0.00	
	401.1			Reinforced Concrete Pipe (Class III)(48 inch dia)	LF	372		\$0.00	
	403.1			Junction Box (Complete) 4'x4'x4	EA	3		\$0.00	
	403.2			Junction Box (Complete) 5'x5'x5	EA	2		\$0.00	
	403.3			Junction Box (Complete) 6'x6'x6	EA	1		\$0.00	
	403.4			Junction Box (Complete) 7'x7'x7	EA	1		\$0.00	
	403.6			Special Junction Box (Complete) 6'x4'x9	EA	1		\$0.00	

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ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	403.7			Inlet Type I (Complete)(10 FT)	EA	11		\$0.00	
	403.9			Inlet Type C Extension (5 FT)	EA	2		\$0.00	
	403.9			Inlet Type C Extension (10 FT)	EA	4		\$0.00	
	403.10			Inlet (Complete)(10 FT)(TxDOT)	EA	7		\$0.00	
	403.11			Inlet (Extension)(10 FT)(TxDOT)	EA	1		\$0.00	
	403.12			Special Inlet Traffic Grate (Complete)(4'x2')	EA	6		\$0.00	
	403.12			Special Inlet Traffic Grate (Complete)(Type 5)(X-4)(TxDOT-SA)	EA	1		\$0.00	
	403.15			Manhole Vertical Stack	EA	4		\$0.00	
	410.2			Gravel Subgrade Filler	CY	97		\$0.00	
	500.1			Concrete Curbing	LF	1,744		\$0.00	
	500.4			Concrete Curb and Gutter	LF	4,163		\$0.00	
	502.1			Concrete Sidewalks	SY	1,901		\$0.00	
	503.1			Portland Cement Concrete Driveway (Residential)	SY	391		\$0.00	
	503.2			Portland Cement Concrete Driveway (Commercial)	SY	1,055		\$0.00	
	503.4			Asphalt Concrete Driveway	SY	20		\$0.00	
	503.5			Gravel Driveway (6 inches)	SY	10		\$0.00	
	504.1			Concrete Median (5 inches thick)	SY	449		\$0.00	
	505.1			Concrete Riprap (4 inches thick)	SY	22		\$0.00	
	506.1			Concrete Retaining Walls - Combination Type	CY	38		\$0.00	
	508.1			Relocating Wire Fence (Chain Link)(4 FT)	LF	120		\$0.00	
	511.3			Replacing with Hot Mix Asphaltic Pavement (10 in Type B & 2 in Type D)	SY	31		\$0.00	
	513.1			Removing and Relocating Mail Boxes	EA	7		\$0.00	
	515.1			Topsoil (4 inches)	CY	145		\$0.00	
	516.2			St Augustine Sodding	SY	1,275		\$0.00	
	523.1			Adjusting Vehicular Gates	OPEN	3		\$0.00	
	523.2			Adjusting Pedestrian Gates	OPEN	1		\$0.00	
	524.1			Concrete Steps	CY	1		\$0.00	
	525.1			Concrete Traffic Barrier (Portable)(Low Profile)(Ty 1)	LF	780		\$0.00	
	525.1			Concrete Traffic Barrier (Portable)(Low Profile)(Ty 2)	LF	440		\$0.00	
	530			Barricades, Signs and Traffic Handling	LS	1		\$0.00	
	531.2			D3 Metro Street Name, Block Numbers (VARx18")	EA	4		\$0.00	
	531.3			R1-1 Stop (30")	EA	4		\$0.00	
	531.6			R2-1 Speed Limit (24"x30")	EA	2		\$0.00	
	531.11			R3-5 Left Only (30"x36")	EA	3		\$0.00	
	531.13			R3-7L Left Lane Must Turn Left (30"x30")	EA	4		\$0.00	
	531.14			R3-8L Land Use Control (30"x30")	EA	1		\$0.00	
	531.16			R3-9 Two Way Left Turn Only (30"x36")	EA	2		\$0.00	
	531.17			R4-7 Keep Right (24"x30")	EA	4		\$0.00	
	531.19			R6-1R One Way (36"x12")	EA	11		\$0.00	
	531.30			R10-7 Do Not Block Intersection (24"x30")	EA	1		\$0.00	

CITY OF SAN ANTONIO
025 UNIT PRICING FORM

PROJECT NAME: MARBACH ROAD PHASE IIB
PROJECT NO. 40-00308

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	531.55			Object Marker Assembly at Concrete Medians	EA	4		\$0.00	
	531.69			R3-17A Ahead Plaque (30"x12")	EA	1		\$0.00	
	531.70			R3-17B End Plaque (30"x12")	EA	1		\$0.00	
	531.73			W11-1 Bike Warning (30"x30")	EA	3		\$0.00	
	531			W16-1 Share the Road Plaque (24"x30")	EA	1		\$0.00	
	531			R3-9 PLQ Begin Plaque (30"x12")	EA	1		\$0.00	
	531			R3-9 PLQ End Plaque (30"x12")	EA	1		\$0.00	
	531			R5-2 No Trucks (24"x24")	EA	1		\$0.00	
	531			SPL Private Road (30"x30")	EA	1		\$0.00	
	531			R10-17 T SA Left Turn Yield on Flashing Arrow (30"x30")	EA	2		\$0.00	
	531			M1-1 Loop 410 (24"x24")	EA	2		\$0.00	
	531			M3-1 North Plaque (24"x12")	EA	1		\$0.00	
	531			M3-3 South Plaque (24"x12")	EA	1		\$0.00	
	531			M6-1 Right Arrow Plaque (21"x15")	EA	1		\$0.00	
	531			M6-3 Straight Arrow Plaque (21"x15")	EA	1		\$0.00	
	535.1			4 inch wide Yellow Line	LF	1,628		\$0.00	
	535.2			4 inch wide White Line	LF	720		\$0.00	
	535.4			8 inch wide White Line	LF	650		\$0.00	
	535.7			24 inch wide White Line	LF	879		\$0.00	
	535			24 inch wide Yellow Line	LF	48		\$0.00	
	535.8			Right White Arrow	EA	2		\$0.00	
	535.9			Left White Arrow	EA	11		\$0.00	
	535			Median Nose Yellow	EA	3		\$0.00	
	535.12			Word "ONLY"	WORD	4		\$0.00	
	535.1			4 inch wide Yellow Line (Temporary)	LF	6,684		\$0.00	
	535.2			4 inch wide White Line (Temporary)	LF	4,302		\$0.00	
	535.7			24 inch wide White Line (Temporary)	LF	336		\$0.00	
	535			24 inch wide Yellow Line (Temporary)	LF	253		\$0.00	
	537.6			Pavement Marker (Type I-C)	EA	101		\$0.00	
	537.8			Pavement Marker (Type II-A-A)	EA	77		\$0.00	
	540.6			Construction Exits (Install/Remove)(Type 1)	SY	312		\$0.00	
	540.10			Curb Inlet Gravel Filters	LF	950		\$0.00	
	550.1			Trench Excavation Safety Protection	LF	2,080		\$0.00	
	552.1			Removing and Relocating Irrigation System	LF	200		\$0.00	
	615.1			Traffic Signal Controller Assembly (Type 332 Cabinet)	EA	1		\$0.00	
	618.1			Conduit Trenched 2 inch PVC (Schedule 40)	LF	120		\$0.00	

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ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.	
	826			Valve Box Adjustments	EA	11		\$0.00		
	828			6" Gate Valve & Box Complete	EA	2		\$0.00		
	828			8" Gate Valve & Box Complete	EA	7		\$0.00		
	828			12" Gate Valve & Box Complete	EA	6		\$0.00		
	830			36" Butterfly Valves	EA	1		\$0.00		
	831			8" x 8" Cut-in Tee	EA	1		\$0.00		
	833			Existing Meter and Meter Box Relocation	EA	10		\$0.00		
	833			Existing Meter and New Meter Box Relocation	EA	9		\$0.00		
	833			Meter Box	EA	19		\$0.00		
	834			Fire Hydrant	EA	3		\$0.00		
	836			Pipe Fittings, All Sizes and Types	TON	6.2		\$0.00		
	840			6" Water Tie-Ins	EA	3		\$0.00		
	840			8" Water Tie-Ins	EA	2		\$0.00		
	840			12" Water Tie-Ins	EA	2		\$0.00		
	840			36" Water Tie-Ins	EA	2		\$0.00		
	844			2" Blowoff, Temporary	EA	6		\$0.00		
	844			4" Blowoff, Temporary	EA	2		\$0.00		
	844			2" Blowoff, Permanent	EA	1		\$0.00		
	846			2" Air Release Assembly	EA	1		\$0.00		
	856.2			8" Carrier Pipe by Open Cut	LF	20		\$0.00		
	856.3			24" Steel Casing by Open Cut	LF	20		\$0.00		
	858			Concrete Encasement, Cradles, Saddles and Collars	CY	15		\$0.00		
	862			Abandon 36" Pipe & Grout	LF	715		\$0.00		
	3000			Removal, Transportation and Disposal of AC Pipe	LF	208		\$0.00		
SAWS - WATER BASE BID:								\$0.00		
CPS ENERGY - 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 to Meter, Sizes 1/2" thru 4" (including replacing riser if necessary).						

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PROJECT NAME: MARBACH ROAD PHASE IIB
PROJECT NO. 40-00308

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
				Short Side	EA	1		\$0.00	
	2			Install Gas Main or Casing (Distance as Measured along the Top of Trench)					
				4" Plastic Pipe and Tracer Wire	FT	212		\$0.00	
				12" Steel	FT	504		\$0.00	
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.									
	3			Install Gas Mains Joint Trench (Distance As Measured Along the Top of Trench)					
				4" Plastic Pipe with Tracer Wire & 12" Steel	FT	624		\$0.00	
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.									
	4			Street Restoration Adjustment, when required. To be used as directed by the CPS Energy Representative.					
				Flowable Fill	CY	25		\$0.00	
				Asphalt	SY	56		\$0.00	
TOTAL CPS ENERGY BASE BID AMOUNT:								\$0.00	
TOTAL PROJECT BASE BID AMOUNT:								\$0.00	

_____ 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, TEXAS
GOVERNING SPECIFICATIONS, SPECIAL PROVISIONS AND SPECIAL SPECIFICATIONS
FOR
MARBACH ROAD PHASE IIB
(MEADOW WAY TO LOOP 410)

ALL SPECIFICATIONS, SPECIAL PROVISIONS, AND SPECIAL SPECIFICATIONS APPLICABLE TO THIS PROJECT ARE IDENTIFIED AS FOLLOWS:

STANDARD SPECIFICATIONS:

- CITY OF SAN ANTONIO – STANDARD SPECIFICATIONS FOR CONSTRUCTION (JUNE 2008 or latest revisions and additions)
- TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES (JUNE 1, 2004)
- SAN ANTONIO WATER SYSTEM - STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION (JUNE 2009 or latest revisions and additions)

CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION

100	MOBILIZATION
101	PREPARING RIGHT-OF-WAY
103	REMOVE CONCRETE
104	STREET EXCAVATION
106	BOX CULVERT EXCAVATION AND BACKFILLING
108	LIME TREATED SUBGRADE
200	FLEXIBLE BASE
203	TACK COAT
205	HOT MIX ASPHALTIC CONCRETE PAVEMENT
208	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT
209	CONCRETE PAVEMENT
307	CONCRETE STRUCTURES
308	DRILLED SHAFTS AND UNDER-REAMED FOUNDATIONS
309	PRECAST REINFORCED CONCRETE BOX CULVERTS
401	REINFORCED CONCRETE PIPE
403	STORM SEWER JUNCTION BOXES AND INLETS
410	SUBGRADE FILLER
500	CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER
502	CONCRETE SIDEWALKS
503	ASPHALTIC CONCRETE, PORTLAND CEMENT CONCRETE, AND GRAVEL DRIVEWAYS
504	CONCRETE MEDIANS AND ISLANDS

505 CONCRETE RIPRAP
506 CONCRETE RETAINING WALL – COMBINATION TYPE
508 RELOCATING WIRE FENCE
511 CUTTING AND REPLACING PAVEMENTS (TRENCH REPAIR)
513 REMOVING AND RELOCATING MAILBOXES
515 TOPSOIL
516 SODDING
523 ADJUSTING OF VEHICULAR AND PEDESTRIAN GATES
524 CONCRETE STEPS
525 CONCRETE TRAFFIC BARRIERS (PORTABLE)
530 BARRICADES, SIGNS AND TRAFFIC HANDLING
531 SIGNS
535 HOT APPLIED THERMOPLASTIC PAVEMENT MARKINGS
537 RAISED PAVEMENT MARKERS
540 TEMPORARY EROSION, SEDIMENTATION AND WATER POLLUTION
PREVENTION AND CONTROL
550 TRENCH EXCAVATION SAFETY PROTECTION
552 REMOVING AND RELOCATING IRRIGATION SYSTEMS
615 TRAFFIC SIGNAL CONTROLLER CABINET
618 CONDUIT
620 ELECTRICAL CONDUCTORS
624 GROUND BOXES
628 ELECTRICAL SERVICES
633 BATTERY BACKUP SYSTEM FOR TRAFFIC SIGNAL
655 CONTROLLER FOUNDATION AND PEDESTAL POSTS
680 INSTALLATION OF HIGHWAY TRAFFIC SIGNALS
681 TEMPORARY TRAFFIC SIGNALS
682 VEHICLE AND PEDESTRIAN SIGNAL HEADS
683 LED COUNTDOWN PEDESTRIAN SIGNAL MODULE
684 TRAFFIC SIGNAL CABLES
686 TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL)
687 PEDESTAL POLE ASSEMBLIES
688 PEDESTRIAN DETECTORS AND VEHICLE LOOP DETECTORS
693 INTERNALLY LIGHTED STREET NAME SIGN ASSEMBLIES
694 VIDEO IMAGING VEHICLE DETENTION SYSTEM
695 EMERGENCY VEHICLE TRAFFIC SIGNAL PRIORITY CONTROL SYSTEM
1000 WEB PORTAL

SPECIAL PROVISIONS:

SPECIAL PROVISIONS WILL GOVERN AND TAKE PRECEDENCE OVER THE SPECIFICATIONS ENUMERATED HEREON WHEREVER IN CONFLICT THEREWITH.

CITY OF SAN ANTONIO

- 106 BOX CULVERT EXCAVATION AND BACKFILLING (DECEMBER 2013)
- 205 HOT MIX ASPHALTIC CONCRETE PAVEMENT (DECEMBER 2013)
- 401 REINFORCED CONCRETE PIPE (MAY 2009)
- 403 STORM SEWER JUNCTION BOXES AND INLETS (MAY 2009)
- 502 CONCRETE SIDEWALKS (MAY 2009)
- 503 ASPHALTIC CONCRETE, PORTLAND CEMENT CONCRETE, AND GRAVEL DRIVEWAYS (MAY 2009)
- 505 CONCRETE RIPRAP (MAY 2009)
- 523 ADJUSTING OF VEHICULAR AND PEDESTRIAN GATES (MAY 2009)
- 526 FIELD OFFICE (JUNE 2010)
- 700 PROJECT SCHEDULES (FEBRUARY 2010)
 BID ITEM SUMMARY REVISIONS (MAY 2009)

SPECIAL SPECIFICATIONS:

THE SPECIFICATION ITEMS LISTED BELOW ARE THOSE UNDER WHICH PAYMENT IS TO BE MADE. THESE TOGETHER WITH SUCH OTHER PERTINENT ITEMS, IF ANY, AND INCLUDING THE SPECIAL PROVISIONS CONSTITUTES THE COMPLETE SPECIFICATIONS FOR THIS PROJECT.

CITY OF SAN ANTONIO

- 800 PROJECT SIGNS
- 801 TREE AND LANDSCAPE PROTECTION
- 802 TREE PRUNING, SOIL AMENDING AND FERTILIZATION
- SP1 VIA Bus Shelter Foundations (4'x13') w/ Relocate Bus Signs
- SP2 Portable Static Message Boards (Temporary)
- SP3 Wireless Access Point
- SP4 Ethernet Switch

644 SMALL ROADSIDE SIGN SUPPORTS AND ASSEMBLIES

**SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS
FOR WATER AND SANITARY SEWER CONSTRUCTION**

100	MOBILIZATION
101	PREPARATION OF RIGHT-OF-WAY
205	HOT MIX ASPHALT PAVEMENT
206	ASPHALT TREATED BASE
413	FLOWABLE FILL
500	CONCRETE CURB, GUTTER, AND CONCRETE CURB AND GUTTER
502	CONCRETE SIDEWALKS
550	TRENCH EXCAVATION PROTECTION
818	PVC (C-900) PIPE INSTALLATION
820	CONCRETE STEEL CYLINDER PIPE INSTALLATION
824	SERVICE SUPPLY LINES
826	VALVE BOX ADJUSTMENT
828	GATE VALVES
830	BUTTERFLY VALVES
831	CUT-IN TEE
833	METER AND METER BOX INSTALLATION
834	FIRE HYDRANTS
836	GREY-IRON AND DUCTILE-IRON FITTINGS
840	WATER TIE-INS
844	BLOW-OFF ASSEMBLIES
846	AIR RELEASE ASSEMBLIES
848	SANITARY SEWERS
852	SEWER MANHOLES
854	SANITARY SEWER LATERALS
856	JACKING, BORING OR TUNNELING PIPE
858	CONCRETE ENCASEMENT, CRADLES, SADDLES AND COLLARS
862	ABANDONMENT OF SEWER MAINS AND MANHOLES
864	BYPASS PUMPING
866	SEWER MAIN TELEVISION INSPECTION

SPECIAL PROVISIONS:

SPECIAL PROVISIONS WILL GOVERN AND TAKE PRECEDENCE OVER THE SPECIFICATIONS ENUMERATED HEREON WHEREVER IN CONFLICT THEREWITH.

SAN ANTONIO WATER SYSTEM

- 830 BUTTERFLY VALVES
- 846 AIR RELEASE ASSEMBLIES
- 866 SEWER MAIN TELEVISION INSPECTION

SPECIAL SPECIFICATIONS:

THE SPECIFICATION ITEMS LISTED BELOW ARE THOSE UNDER WHICH PAYMENT IS TO BE MADE. THESE TOGETHER WITH SUCH OTHER PERTINENT ITEMS, IF ANY, AND INCLUDING THE SPECIAL PROVISIONS CONSTITUTES THE COMPLETE SPECIFICATIONS FOR THIS PROJECT.

SAN ANTONIO WATER SYSTEM

- 3000 HANDLING ASBESTOS CEMENT PIPE

CPS ENERGY

Requirements and Specifications for the Construction of Natural Gas Distribution Facilities:

- Exhibit GAS-1 Additions to Project Bid Documents
- Exhibit GAS-2 Specifications for Construction of Natural Gas Distribution Facilities
- Exhibit GAS-3 Design Standards for Steel Gas Piping
- Exhibit GAS-4 Design Standards for Polyethylene Gas Piping
- Exhibit GAS-5 Compensation Schedule
- Exhibit GAS-6 Job Sketch for: Marbach Drainage Phase IIB
- Exhibit GAS-7 Covered Tasks Regulated by 49 CFR Part 192

Update: December 2013

THE FOLLOWING ITEMS ARE SPECIAL PROVISIONS TO
THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS
FOR CONSTRUCTION DATED JUNE 2008

1. Item 106 Box Culvert Excavation and Backfilling	Page 2
2. Item 205 Hot Mix Asphaltic Concrete Pavement	Page 2
3. Item 401 Reinforced Concrete Pipe	Page 2
4. Item 402 High Density Corrugated Polyethylene Pipe	Page 3
5. Item 403 Storm Sewer Junction Boxes and Inlets	Page 3
6. Item 404 Corrugated Metal Pipe	Page 4
7. Item 405 Fiber Reinforced Concrete Pipe	Page 5
8. Item 502 Concrete Sidewalks	Page 5
9. Item 503 Asphaltic Concrete, Portland Cement Concrete and Gravel Driveways	Page 5
10. Item 505 Concrete Riprap	Page 6
11. Item 520 Hydromulching	Page 6
12. Item 523 Adjusting of Vehicular & Pedestrian Gates	Page 7 & 8
13. Bid Item Summary Revisions	Page 9

General

Throughout the City of San Antonio Standard Specifications for Construction (June 2008) replace the following:

- “Item 407 Frames, Grates, Rings and Covers” with “Item 409 Cast Iron Castings”
- “Item 304 Expansion Joint Material” with “Item 307.2.E, Expansion Joint Material”
- “Item 305, Membrane Curing” with “Item 307.2.H, Membrane Curing”

Item 106 Box Culvert Excavation and Backfilling

Section 106.4 Construction. D. Backfilling:

Delete 1st paragraph.

Add:

Backfilling to 12 inches above the top of the box culvert (initial backfill) shall be completed by one of the four methods 1., 2., 3., or 4. below. Backfilling (initial backfill) shall be no less than 12 inches above the top of the box culvert for the entire width of the trench. Backfilling from the 12 inches above the top of the culvert to the top of the trench (secondary backfill), or proposed subgrade elevations, shall be completed in accordance with Item 400, "Excavation, Trenching, and Backfilling." Backfill behind cast-in-place culvert walls shall not begin until the concrete has attained a compressive strength of 2,000 psi. Backfill on top of cast-in-place supporting slabs shall not begin until the concrete has attained a compressive strength of 3,000 psi. Avoid wedging action of backfill against structures. If necessary to prevent such action, step or serrate slopes bounding the excavation. Place backfill along both sides of culverts equally and in uniform layers.

Item 205 Hot Mix Asphaltic Concrete Pavement

Section 205.4. G. Placement, 3. Placement Operations:

Delete: When approved by the Engineer, level-up courses may be spread with a motor grader.

Add:

The use of a lay down machine shall be the primary method used for the placement of all HMAC. The use of a motor grader is not permitted unless approved by the Engineer.

Item 401 Reinforced Concrete Pipe

Delete in its entirety:

Section 401.6 Payment

Add:

Section 401.6 Payment:

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "Reinforced Concrete Pipe", "Reinforced Concrete Pipe (Arch)", or "Reinforced Concrete Pipe (Elliptical)" of the size and D-load specified or of the size and class specified. This price is full compensation for excavation and backfilling; constructing, furnishing, transporting, placing and joining pipes; shaping the bed; cutting pipes on skew or slope; connecting to new or existing structures; breaking back, removing and disposing of portions of the existing structure; replacing portions of the existing structure; cutting

pipe ends skew or slope; and equipment, labor, tools and incidentals required to complete the work.

Protection methods for excavations greater than 5 ft. deep will be measured and paid for as required under Item 550, "Trench Excavation Safety Protection", or Item 551, "Special Shoring". When jacking, boring, or tunneling is used at the Contractor's option, payment will be made under this Item. When jacking, boring, or tunneling is required, payment will be made under Item 406, "Jacking, Boring or Tunneling Pipe or Box".

Item 402 High Density Corrugated Polyethylene Pipe

Delete in its entirety:

Section 402.7 Payment A & B

Add:

Section 402.7 Payment:

The work performed and materials furnished in accordance with this Item and measured as provided under "Measurement" will be paid for at the unit price bid for "High Density Corrugated Polyethylene Pipe" of the size and backfill specified. This price is full compensation for excavation and backfilling; furnishing, transporting, placing and joining pipes; shaping the bed; cutting pipes on skew or slope; connecting to new or existing structures; breaking back, removing and disposing of portions of the existing structure; replacing portions of the existing structure; cutting pipe ends skew or slope; and equipment, labor, tools and incidentals required to complete the work.

Protection methods for excavations greater than 5 ft. deep will be measured and paid for as required under Item 550, "Trench Excavation Safety Protection", or Item 551, "Special Shoring". When jacking, boring, or tunneling is used at the Contractor's option, payment will be made under this Item. When jacking, boring, or tunneling is required, payment will be made under Item 406, "Jacking, Boring or Tunneling Pipe or Box".

Item 403 Storm Sewer Junction Boxes and Inlets

Add:

Item 403.1 Description:

Construct pre-cast manhole vertical stack, including excavation, and backfilling; furnishing and installing frames, rings and covers.

Item 403.2 Materials:

H. Manhole vertical stacks that are required on top of box culverts as shown on the plans and quantity summary are to be pre-cast.

Item 403.3 Construction:

J. Manhole vertical stack construction on box culverts shall be the same as the city standard for junction boxes. Please refer to standard junction box details.

Item 403.4 Measurement:

Manhole vertical stacks on top of box culverts shall be measured as per each.

Item 403.5 Payment:

D. Payment for manhole vertical stacks on top of a box culvert will be made at the unit price bid for “Manhole Vertical Stack”.

Section 403.6 Bid Item

Delete:

Items 403.7 – 403.14

Add:

Item 403.7 – Inlet Type I (Complete)(10 ft)
Item 403.8 – Inlet Type II (Complete)(10 ft)
Item 403.9 – Inlet Extensions (10 ft)
Item 403.10 – Inlet (Complete)(5')(TxDOT)
Item 403.11 – Inlet (Extension)(5')(TxDOT)
Item 403.12 – Special Inlet (Complete)
Item 403.15 – Manhole Vertical Stack

Note: See Bid Item Summary revisions.

Item 404 Corrugated Metal Pipe

Delete in its entirety:

Section 404.6 Payment

Add:

Section 404.6 Payment:

The work performed and materials furnished in accordance with this Item and measured as provided under “Measurement” will be paid for at the unit price bid for “Corrugated Metal Pipe,” “Corrugated Metal Pipe Arch,” “Spiral Rib Corrugated Metal Pipe,” or “Spiral Rib Corrugated Metal Pipe Arch” of the type, size and coating specified. This price is full compensation for excavation and backfilling; furnishing, transporting, placing and joining pipes; shaping the bed; cutting pipes on skew or slope; connecting to new or existing structures; breaking back, removing and disposing of portions of the existing structure; replacing portions of the existing structure; cutting pipe ends skew or slope; and equipment, labor, tools and incidentals required to complete the work.

Protection methods for excavations greater than 5 ft. deep will be measured and paid for as required under Item 550, “Trench Excavation Safety Protection”, or Item 551, “Special Shoring”. When jacking, boring, or tunneling is used at the Contractor’s option, payment will be made under this Item. When jacking, boring, or tunneling is required, payment will be made under Item 406, “Jacking, Boring or Tunneling Pipe or Box”.

Item 405 Fiber Reinforced Concrete Pipe

Delete in its entirety:

Section 405.6 Payment

Add:

Section 405.6 Payment:

The work performed and materials furnished in accordance with this Item and measured as provided under “Measurement” will be paid for at the unit price bid for “Fiber Reinforced Concrete Pipe” of the backfill type, size and D-load class specified. This price is full compensation for excavation and backfilling for Type I, Type II and Type III; constructing, furnishing, transporting, placing and joining pipes; shaping the bed; cutting pipes on skew or slope; connecting to new or existing structures; breaking back, removing and disposing of portions of the existing structure; replacing portions of the existing structure; cutting pipe ends skew or slope; and equipment, labor, tools and incidentals required to complete the work.

Item 502 Concrete Sidewalks

Delete first paragraph from 502.4.F.Joints:

Add : Section 502.4.F Joints:

Unless otherwise specified on the plans or as agreed to by the Engineer, tooled joints with rounded edges will be placed at intervals equal to the sidewalk width and will be opened with one-half inch (1/2”) radius by one and one-half inch (1 ½”) depth and closed by one-half inch (1/2”) radius by one-inch (1”) depth.

Section 502.6 Payment:

Delete from first paragraph: “removal and disposal of existing concrete;”

Item 503 Asphaltic Concrete, Portland Cement Concrete and Gravel Driveways

Section 503.6 Payment

Add : Section 503.6 Payment:

The work performed as prescribed by this item will be paid for at the contract unit price bid per square yard for “Portland Cement Concrete Driveway”, Portland Cement Concrete Driveway – Commercial”, “Asphaltic Concrete Driveway”, or “Gravel Driveway”, which price shall be full compensation for preparing the subgrade, for furnishing and placing all materials, manipulations, labor, tools, equipment and incidentals necessary to complete the work.

Item 505 Concrete Riprap

Delete in its entirety:

Section 505.4.A Concrete Reinforcement

Add : Section 505.4.A Concrete Reinforcement:

Unless otherwise shown on the plans, reinforce concrete riprap with 6 x 6 – W6 x W6 welded wire fabric or with No. 4 reinforcing bars spaced at a maximum of 18 in. in each direction unless otherwise shown. A combination of welded wire fabric and reinforcing bars may be provided when both are permitted. Provide a minimum 6-in. lap at all splices. At the edge of the riprap, provide a minimum horizontal cover of 1 in. and a maximum cover of 3 in. Place the first parallel bar no more than 6 in. from the edge of concrete. Use approved supports to hold the reinforcement approximately equidistant from the top and bottom surface of the slab. Adjust reinforcement during concrete placement to maintain correct position. Reinforcement protruding from existing riprap shall be thoroughly cleaned.

Item 520 Hydromulching

Section 520.4 Construction (D) Slurry:

Delete: “Annual Ryegrass (Oct. through March 15) 20 lbs per 1,000 sqft”.

Add: “Annual Ryegrass (Oct. through March 15) 5-10 lbs per 1,000 sqft”.

Item 523 Adjusting of Vehicular & Pedestrian Gates

Delete in its entirety:

Item 523 Adjusting of Vehicular & Pedestrian Gates

Add:

523.1. DESCRIPTION: *This item shall govern for the adjustment of manual or motorized, chain link or wrought iron, vehicular or pedestrian gates made necessary by the construction of new driveways or sidewalk entrances.*

523.2. MATERIALS: Additional materials needed to perform chain link fences gate adjustments shall conform to those specified in Item 507, "Chain Link Wire Fence". Materials used to adjust wrought iron gates shall be of the same type of material and configuration as the existing gate including any masonry. A combination of new and existing materials may be used if approved by the Engineer and property owner.

523.3. EQUIPMENT: Provide the machinery, tools and equipment necessary for proper prosecution of the work. All machinery, tools and equipment used shall be maintained in a satisfactory and workmanlike manner.

523.4. CONSTRUCTION: Approval from the property owner and Engineer shall be obtained by the Contractor in order to perform the necessary work required. The Contractor shall adjust gates vertically and or relocated gates horizontally by removing the existing gate from the gate posts and relocating and/or replacing (if necessary) the existing hinges, sliding mechanism, or rollers at a level such that the gate shall be provided with the necessary clearance to operate properly. Contractor shall coordinated extent of adjustments to be made with the property owner and Engineer prior to commencing any gate adjustments. Contractor shall notify property owner or tenant 48 hours in advance of any gate adjustments.

All fabric, posts, braces, gates, fittings, bolts, tension wire, tracks, wheels, rollers, operating mechanism, electrical service, wiring and miscellaneous hardware shall be carefully removed in such a manner that they will not be marred or damaged. After removal of the existing gate has been complete, any material deemed not useable shall be replaced by the Contractor with new material of the same design and quality as the existing material. A new gate constructed of the same type of material and configuration as the existing gate may be installed if so desired by the Contractor. All fences and gates shall be cut and welded by a qualified welder.

If necessary, the existing fence may be extended, reinforced, or offset in a manner that will not detract from the decorative appeal of the fence. All extensions and offsets of existing fences and gates shall be approved by the property owner.

All gates adjusted vertically shall be extended vertically so that the height of the gate will match existing fence height. Gates that are adjusted vertically shall be provided with a concrete channel for track, gate, sliding mechanism as detailed on plans or as approved by the Engineer and property owner.

All welding will be performed in a workman-like manner with solid joints of minimum protrusion. The adjusted gate will be constructed in such a manner to have minimal flexure.

Any excessive splatter of the weld will be ground off. Existing wrought iron fences and gates will be cleaned and any surface imperfections, any rust and paint will be removed completely. All surfaces of the existing gates will be roughened to accept a new coat of paint. All newly added areas will be completely primed and painted to match existing paint. A second coat will be required to cover any holidays or spots of insufficient coverage. The existing fence and gate will be spot primed in areas where surface imperfections or rust have been removed.

Painting will be by hand or spray. Areas to be painted shall be primed in accordance with paint manufacturer's recommendations. Two coats of paint shall be applied to the existing fence and gate and all newly added parts. The final surface will be of even color with out streaks, drips bubbles, or any other surface imperfection. Paint used shall match existing paint in color and texture. Color shall be approved in writing by the property owner.

523.5 MEASUREMENT: Vehicular and pedestrian gates will be measured for each driveway or sidewalk entrance and/or exit of each type that is adjusted. Additional fencing that may be required for relocation or adjustment of gates will be subsidiary to gate adjustments or gate relocation and will not be measured as a separate pay item.

523.6 PAYMENT: The work performed and the materials furnished as prescribed by this item will be paid for at the bid price per gate for "Adjusting of Vehicular & Pedestrian Gates," which price shall be full compensation for removing and installing the existing gate and for furnishing all additional materials, all labor, tools, equipment and incidentals necessary to complete the work.

523.7 Bid Item:

Item 523.1 – Adjusting Chain Link Vehicular Gate – Each

Item 523.2 – Adjusting Chain Link Vehicular Gate (Motorized) – Each

Item 523.3 – Adjusting Chain Link Pedestrian Gate – Each

Item 523.4 – Adjusting Wrought Iron Vehicular Gate – Each

Item 523.5 – Adjusting Wrought Iron Vehicular Gate (Motorized) – Each

Item 523.6 – Adjusting Wrought Iron Pedestrian Gate – Each

Bid Item Summary Revisions

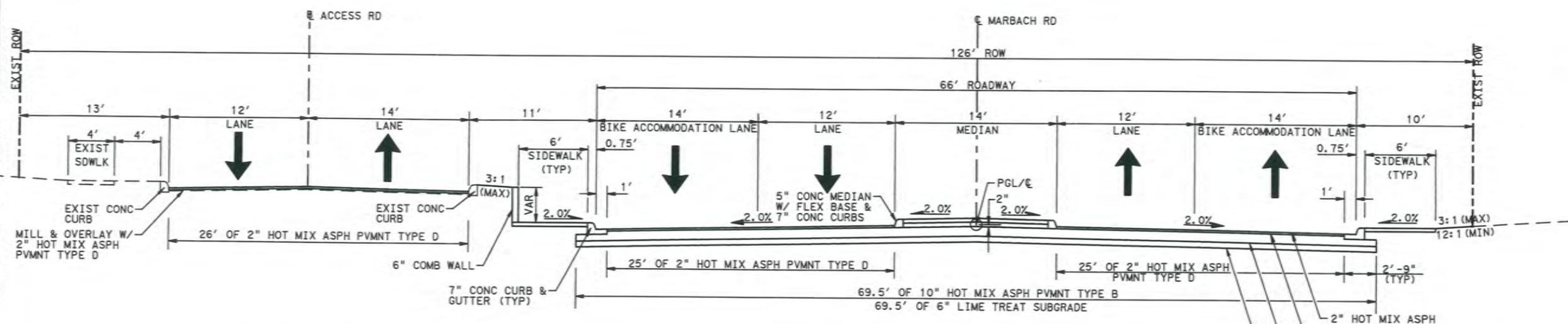
Replace Item 403.7 with Item 403.7 – Inlet Type I (Complete)(10 ft) – Each
Replace Item 403.8 Item 403.8 – Inlet Type II (Complete)(10 ft) - Each
Replace Item 403.9 Item 403.9 – Inlet Extensions (10 ft) - Each
Replace Item 403.10 Item 403.10 – Inlet (Complete)(5’)(TxDOT) - Each
Replace Item 403.11 Item 403.11 – Inlet (Extension)(5’)(TxDOT) - Each
Replace Item 403.12 Item 403.12 – Special Inlet (Complete) - Each
Delete Items 403.13 & 403.14
Add Item 523.1 – Adjusting Chain Link Vehicular Gate – Each
Add Item 523.2 – Adjusting Chain Link Vehicular Gate (Motorized) - Each
Add Item 523.3 – Adjusting Chain Link Pedestrian Gate – Each
Add Item 523.4 – Adjusting Wrought Iron Vehicular Gate – Each
Add Item 523.5 – Adjusting Wrought Iron Vehicular Gate (Motorized) - Each
Add Item 523.6 – Adjusting Wrought Iron Pedestrian Gate – Each
Replace Item 682.1 with Item 682.1 – Install Vehicle Signal Section with Back Plate (3 second) – Each
Replace Item 682.2 with Item 682.2 – Install Vehicle Signal Section with Back Plate (4 second) – Each
Replace Item 682.3 with Item 682.3 – Install Vehicle Signal Section with Back Plate (5 second) – Each
Replace Item 682.4 with Item 682.4 – Install Pedestrian Signal Section (12 inch) LED (2 Ind) – Each
Add Item 682.5 – Louver (12 inch)(Adjustable) – Each

12/6/2013

12/6/2013

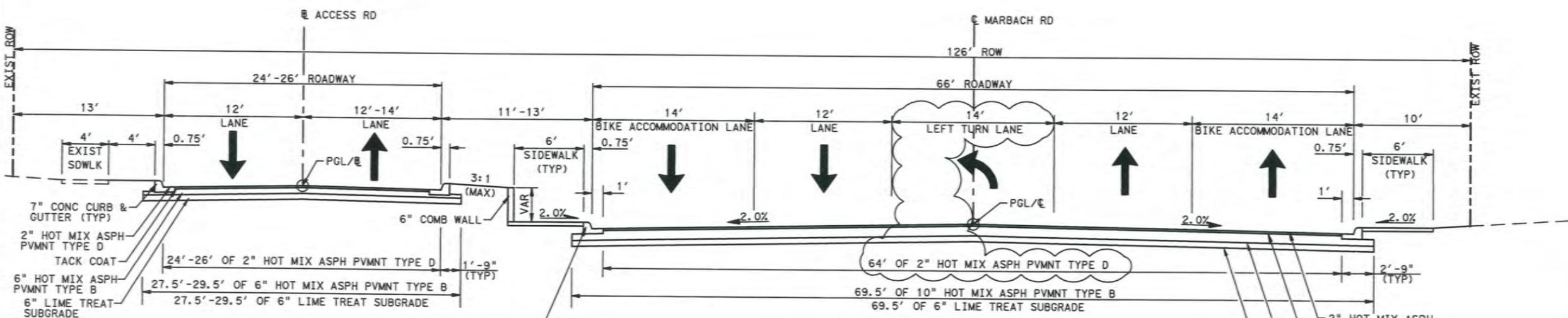
w:\work\1186_02_marbach_phase_1\1186_02_marbach_phase_1\TYP-SEC03.dwg

MARBACH RD
DESIGN SPEED: 35 MPH
FUNCTIONAL CLASSIFICATION:
URBAN ARTERIAL ROAD
ADT: 28,400 VPD



ACCESS RD
TYPICAL SECTION

MARBACH RD W/TWO-WAY LEFT TURN LANE
TYPICAL SECTION
STA 78+96.00 TO STA 80+50.00



ACCESS RD
TYPICAL SECTION
STA 23+35 TO STA 24+07

MARBACH RD W/TWO-WAY LEFT TURN LANE
TYPICAL SECTION
STA 80+50.00 TO STA 83+57.00



Lori Dullnig-Warlen PE
12/16/13

SCALE: 1"=10' SHEET 3 OF 5

1	12-06-13	ADDENDUM 1 - REVISE MEDIAN & HMA C TYP D	BMB
REV. NO.	DATE	DESCRIPTION	BY
BAIN MEDINA BAIN, INC. ENGINEERS & SURVEYORS TBPE F-001712 7073 San Pedro, San Antonio, Texas, 78216 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBI.COM			
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT MARBACH RD (PHASE IIB) FROM MEADOW WAY TO IH 410 FRONTAGE RD TYPICAL SECTIONS			
FINAL SUBMITTAL	PROJECT NO: 40-00308	DATE: 12/6/2013	
DRWN BY: CDA/MC	DSGN BY: SS/CDA	CHKD BY: LDW/CB	SHEET: 7

COSA SUMMARY

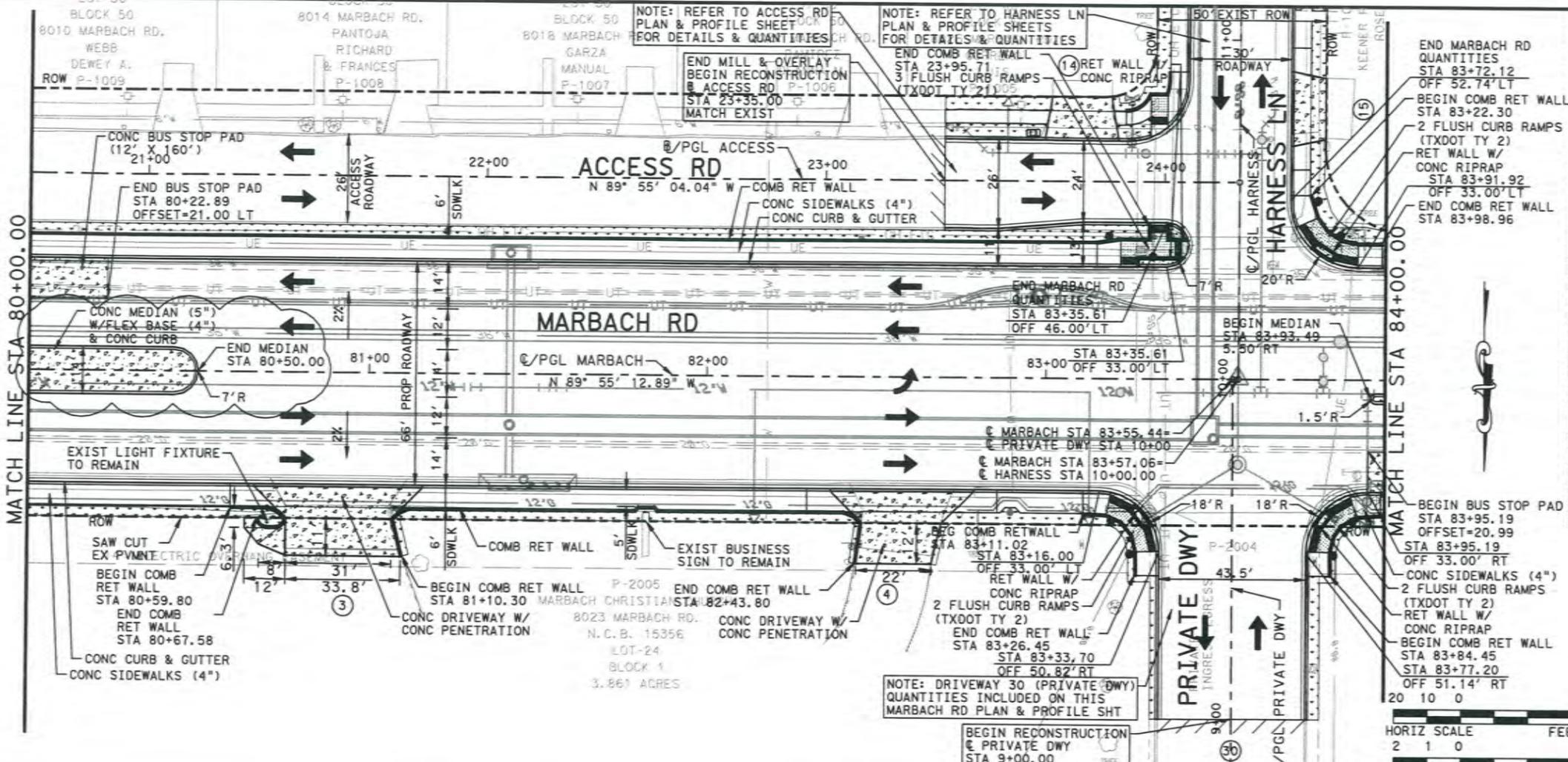
ITEM	DESCRIPTION	UNIT	QUANTITY
100.1	Mobilization	LS	1
100.2	Insurance & Bond	LS	1
101.1	Preparing Right of Way	LS	1
103.1	Remove Concrete Curb	LF	4,088
103.3	Remove Concrete Sidewalks and Driveways	SF	19,146
103.4	Remove Miscellaneous Concrete - Combination Wall	SF	666
104.1	Street Excavation	CY	5,128
106.1	Box Culvert Excavation and Backfill	CY	5,091
108.1	Lime Treated Subgrade (6 inches compacted depth)	SY	12,855
108.2	Lime (Slurry)	TON	238
200.1	Flexible Base (4 inches compacted depth)	SY	449
203.1	Tack Coat	GAL	1,560
205.2	Hot Mix Asphaltic Pavement Type B (Temp Sidewalk) (3 inches)	SY	869
205.2	Hot Mix Asphaltic Pavement Type B (Temp Driveway) (3 inches)	SY	746
205.2	Hot Mix Asphaltic Pavement Type B (6 inches)	SY	4,056
205.2	Hot Mix Asphaltic Pavement Type B (10 inches)	SY	8,261
205.4	Hot Mix Asphaltic Pavement Type D (2 inches)	SY	15,592
208.1	Salvaging, Hauling, and Stockpiling R.A.P. (2 inches)	SY	5,574
209.1	Concrete Pavement (10" Deep) (Bus Pad)	SY	1,070
307.1	Concrete Structure (Headwall)	CY	2
308.1	Drill Shafts (24")	LF	23
308.1	Drill Shafts (30")	LF	34
308.1	Drill Shafts (36")	LF	16
309.1	3'X3' Precast Reinforced Concrete Box Culvert	LF	208
309.1	4'X4' Precast Reinforced Concrete Box Culvert	LF	415
309.1	5'X5' Precast Reinforced Concrete Box Culvert	LF	559
401.1	Reinforced Concrete Pipe (Class III) (18 inch dia)	LF	61
401.1	Reinforced Concrete Pipe (Class III) (24 inch dia)	LF	460
401.1	Reinforced Concrete Pipe (Class III) (30 inch dia)	LF	115
401.1	Reinforced Concrete Pipe (Class III) (48 inch dia)	LF	372
403.1	Junction Box (Complete) 4'x4'x4'	EA	3
403.2	Junction Box (Complete) 5'x5'x5'	EA	2
403.3	Junction Box (Complete) 6'x6'x6'	EA	1
403.4	Junction Box (Complete) 7'x7'x7'	EA	1
403.6	Special Junction Box (Complete) 6'x4'x9'	EA	1
403.7	Inlet Type I (Complete) (10 FT)	EA	11
403.9	Inlet Type C Extension (5 FT)	EA	2
403.9	Inlet Type C Extension (10 FT)	EA	4
403.10	Inlet (Complete) (10 FT) (TxDOT)	EA	7
403.11	Inlet (Extension) (10 FT) (TxDOT)	EA	1
403.12	Special Inlet Traffic Grate (Complete) (4'x2')	EA	6
403.12	Special Inlet Traffic Grate (Complete) (Type 5) (X-4) (TxDOT-SA)	EA	1
403.15	Manhole Vertical Stack	EA	4
410.2	Gravel Subgrade Filler	CY	97
500.1	Concrete Curbing	LF	1,744
500.4	Concrete Curb and Gutter	LF	4,163
502.1	Concrete Sidewalks	SY	1,901
503.1	Portland Cement Concrete Driveway (Residential)	SY	391
503.2	Portland Cement Concrete Driveway (Commercial)	SY	1,055
503.4	Asphalt Concrete Driveway	SY	20
503.5	Gravel Driveway (6 inches)	SY	10
504.1	Concrete Median (5 inches thick)	SY	449
505.1	Concrete Riprap (4 inches thick)	SY	22
506.1	Concrete Retaining Walls - Combination Type	CY	38
508.1	Relocating Wire Fence (Chain Link) (4 FT)	LF	120
511.3	Replacing with Hot Mix Asphaltic Pavement (10 in Type B & 2 in	SY	31
513.1	Removing and Relocating Mail Boxes	EA	7
515.1	Topsoil (4 inches)	CY	145
516.2	St Augustine Sodding	SY	1,275
523.1	Adjusting Vehicular Gates	OPEN	3
523.2	Adjusting Pedestrian Gates	OPEN	1
524.1	Concrete Steps	CY	1
525.1	Concrete Traffic Barrier (Portable) (Low Profile) (Ty 1)	LF	780
525.1	Concrete Traffic Barrier (Portable) (Low Profile) (Ty 2)	LF	440
530	Barrioades, Signs and Traffic Handling	LS	1
531.2	D3 Metro Street Name, Block Numbers (VARx18")	EA	4
531.3	R1-1 Stop (30")	EA	4
531.6	R2-1 Speed Limit (24"x30")	EA	2
531.11	R3-5 Left Only (30"x36")	EA	3
531.13	R3-7L Left Lane Must Turn Left (30"x30")	EA	4
531.14	R3-8L Land Use Control (30"x30")	EA	1
531.16	R3-9 Two Way Left Turn Only (30"x36")	EA	2
531.17	R4-7 Keep Right (24"x30")	EA	4
531.19	R6-1R One Way (36"x12")	EA	11
531.30	R10-7 Do Not Block Intersection (24"x30")	EA	1

COSA SUMMARY, CONT.

ITEM	DESCRIPTION	UNIT	QUANTITY
531.55	Object Marker Assembly at Concrete Medians	EA	4
531.69	R3-17A Ahead Plaque (30"x12")	EA	1
531.70	R3-17B End Plaque (30"x12")	EA	1
531.73	W11-1 Bike Warning (30"x30")	EA	3
531	W16-1 Share the Road Plaque (24"x30")	EA	1
531	R3-9 PLQ Begin Plaque (30"x12")	EA	1
531	R3-9 PLQ End Plaque (30"x12")	EA	1
531	R5-2 No Trucks (24"x24")	EA	1
531	SPL Private Road (30"x30")	EA	1
531	R10-17 T SA Left Turn Yield on Flashing Arrow (30"x30")	EA	2
531	M1-1 Loop 410 (24"x24")	EA	2
531	M3-1 North Plaque (24"x12")	EA	1
531	M3-3 South Plaque (24"x12")	EA	1
531	M6-1 Right Arrow Plaque (21"x15")	EA	1
531	M6-3 Straight Arrow Plaque (21"x15")	EA	1
535.1	4 inch wide Yellow Line	LF	1,628
535.2	4 inch wide White Line	LF	720
535.4	8 inch wide White Line	LF	650
535.7	24 inch wide White Line	LF	879
535	24 inch wide Yellow Line	LF	48
535.8	Right White Arrow	EA	2
535.9	Left White Arrow	EA	11
535	Median Nose Yellow	EA	3
535.12	Word "ONLY"	WORD	4
535.1	4 inch wide Yellow Line (Temporary)	LF	6,684
535.2	4 inch wide White Line (Temporary)	LF	4,302
535.7	24 inch wide White Line (Temporary)	LF	336
535	24 inch wide Yellow Line (Temporary)	LF	253
537.6	Pavement Marker (Type I-C)	EA	101
537.8	Pavement Marker (Type II-A-A)	EA	77
540.6	Construction Exits (Install/Remove) (Type 1)	SY	372
540.10	Curb Inlet Gravel Filters	LF	950
550.1	Trench Excavation Safety Protection	LF	2,080
552.1	Removing and Relocating Irrigation System	LF	200
615.1	Traffic Signal Controller Assembly (Type 332 Cabinet)	EA	1
618.1	Conduit Trenched 2 inch PVC (Schedule 40)	LF	120
618.2	Conduit Trenched 3 inch PVC (Schedule 40)	LF	640
620.1	Electric Conductors (No. 6) (Bare)	LF	19
620.2	Electric Conductors (No. 8) (Bare)	LF	738
620.3	Electric Conductors (No. 6) (Insulated)	LF	38
624.3	Ground Boxes Type C (162911)	EA	4
628.1	Electrical Services (Steel Service Pole with Meter)	EA	1
633.1	Battery Backup System	EA	1
655.1	Type 332 Controller Foundation	EA	1
680.1	Installation of Highway Traffic Signals (System)	EA	1
681.1	Temporary Traffic Signal	EA	2
682.1	Install Vehicle Signal Section w/ Back Plate (3 sec)	EA	8
682.2	Install Vehicle Signal Section w/ Back Plate (4 sec)	EA	2
682.4	Install Pedestrian Signal Section (12 in)LED (2 ind)	EA	8
683.1	Install LED Countdown Pedestrian Module	EA	8
684.1	Traffic Signal Cables (Type A) (14 AWG) (Conductor No. 4)	LF	480
684.1	Traffic Signal Cables (Type A) (14 AWG) (Conductor No. 9)	LF	1,435
686.1	Install Traf Signal Pole Asm (Steel) (1 Arm 28') with ILSN	EA	1
686.1	Install Traf Signal Pole Asm (Steel) (1 Arm 32') with ILSN	EA	1
686.1	Install Traf Signal Pole Asm (Steel) (1 Arm 36') with ILSN	EA	1
686.1	Install Traf Signal Pole Asm (Steel) (1 Arm 44') with ILSN	EA	1
687.1	Pedestal Pole Assembly	EA	4
688.3	Audible Pedestrian Signal Units (Type)	EA	8
693.1	Internally Lighted Street Name Signs (ILSN Sign 9' S)	EA	4
694.1	VIVDS Processor Unit	EA	6
694.2	VIVDS Camera Assembly	EA	6
694.4	VIVDS Set-up System	EA	1
694.5	VIVDS Temporary	EA	2
694.6	VIVDS Communications Cable (Coaxial)	LF	830
695.2	Emergency Preemption Phase Selector	EA	1
695.3	Emergency Preemption Detector	EA	4
695.4	Emergency Preemption Detector Cable	LF	525
801.3	Tree Protection Level IIB	LF	18
802.1	Tree Pruning	EA	1
644-2027	Ins Sm Rd Sn Sup & Asm Ty S80 (1) SA (U)	EA	1
SP1	VIA Bus Shelter Foundations (4'x13') w/ Relocate Bus Signs	EA	5
SP2	Portable Static Message Boards (Temporary)	EA	2
SP3	Wireless Access Point	EA	1
SP4	Ethernet Switch	EA	1

1	12-06-13	ADDENDUM 1 - REVISE QUANTITIES	BMB
REV. NO.	DATE	DESCRIPTION	BY
 BAIN MEDINA BAIN, INC. ENGINEERS & SURVEYORS TBPE F-001712 7073 San Pedro, San Antonio, Texas, 78216 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBI.COM			
CITY OF SAN ANTONIO  CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT			
MARBACH RD (PHASE IIB) FROM MEADOW WAY TO IH 410 FRONTAGE RD PROJECT QUANTITIES SUMMARY			
FINAL SUBMITTAL	PROJECT NO:	40-00308	DATE: 12/6/2013
DRWN BY: CDA/MC	DSGN BY: SS/CDA	CHKD BY: LDW/CB	SHEET: 12

12/6/2013
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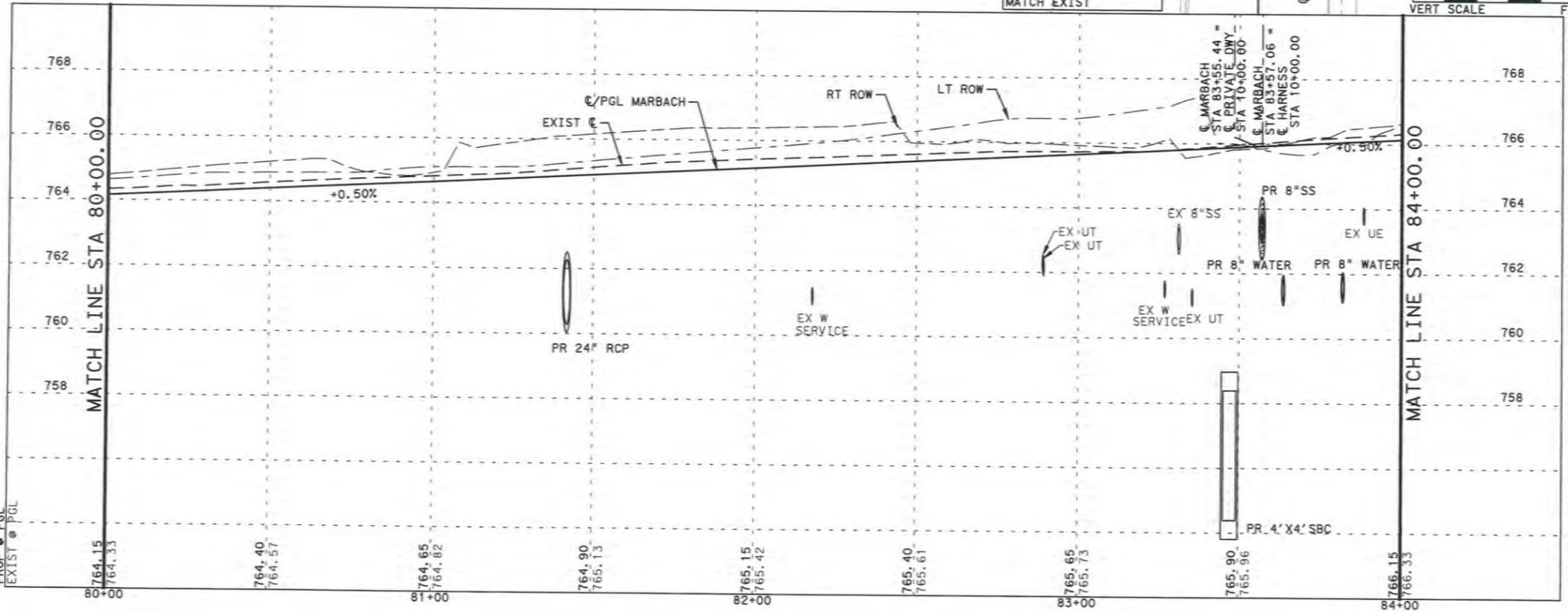
ESTIMATED QUANTITIES		
ITEM	UNIT	QTY
REMOVE CONC CURB	LF	860
REMOVE SIDEWALKS AND DRIVEWAYS	SF	4,000
REMOVE MISC CONCRETE (COMB RET WALLS)	SF	510
STREET EXCAVATION	CY	1,467
LIME TREATED SUBGRADE (6 IN)	SY	3,787
LIME (SLURRY)	TON	70
FLEXIBLE BASE (4 IN)	SY	67
TACK COAT	GAL	337
HOT MIX ASPHALTIC PAVEMENT TYPE B (10 IN)	SY	3,358
HOT MIX ASPHALTIC PAVEMENT TYPE B (6 IN)	SY	389
HOT MIX ASPHALTIC PAVEMENT TYPE D (2 IN)	SY	3,371
SALVAGING, HAULING & STOCKPILING RAP (2 IN)	SY	0
CONCRETE PAVEMENT (10\"/>		

PLAN VIEW LEGEND:

- EXISTING EDGE OF ROADWAY
- EXISTING FENCE
- EXISTING UTILITY
- PROPOSED UTILITY
- EXISTING RIGHT OF WAY
- PROPOSED CURB AND GUTTER
- PROPOSED RETAINING WALL
- REMOVE & RELOCATE MAIL BOX
- TRAFFIC SIGNAL FOUNDATION
- DRIVEWAY NUMBER
- TOPSOIL AND SOD
- ASPHALT AREA
- CONCRETE AREA
- MILL & OVERLAY
- DRAINAGE FLOW ARROW
- DIRECTION OF TRAFFIC

PROFILE VIEW LEGEND:

- PROPOSED PGL
- EXISTING CENTERLINE
- EXISTING R.O.W. (RIGHT)
- EXISTING R.O.W. (LEFT)
- PROPOSED RETAINING WALL (RIGHT)
- PROPOSED RETAINING WALL (LEFT)



Lori Dullnig-Warlen
12/6/13

1	12-06-13	ADDENDUM 1 - REVISE MEDIAN & QUANTITIES	BMB
REV. NO.	DATE	DESCRIPTION	BY

BAIN MEDINA BAIN, INC.
ENGINEERS & SURVEYORS
TBP# F-001712
7073 San Pedro, San Antonio, Texas, 78216
Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBCOM

CITY OF SAN ANTONIO

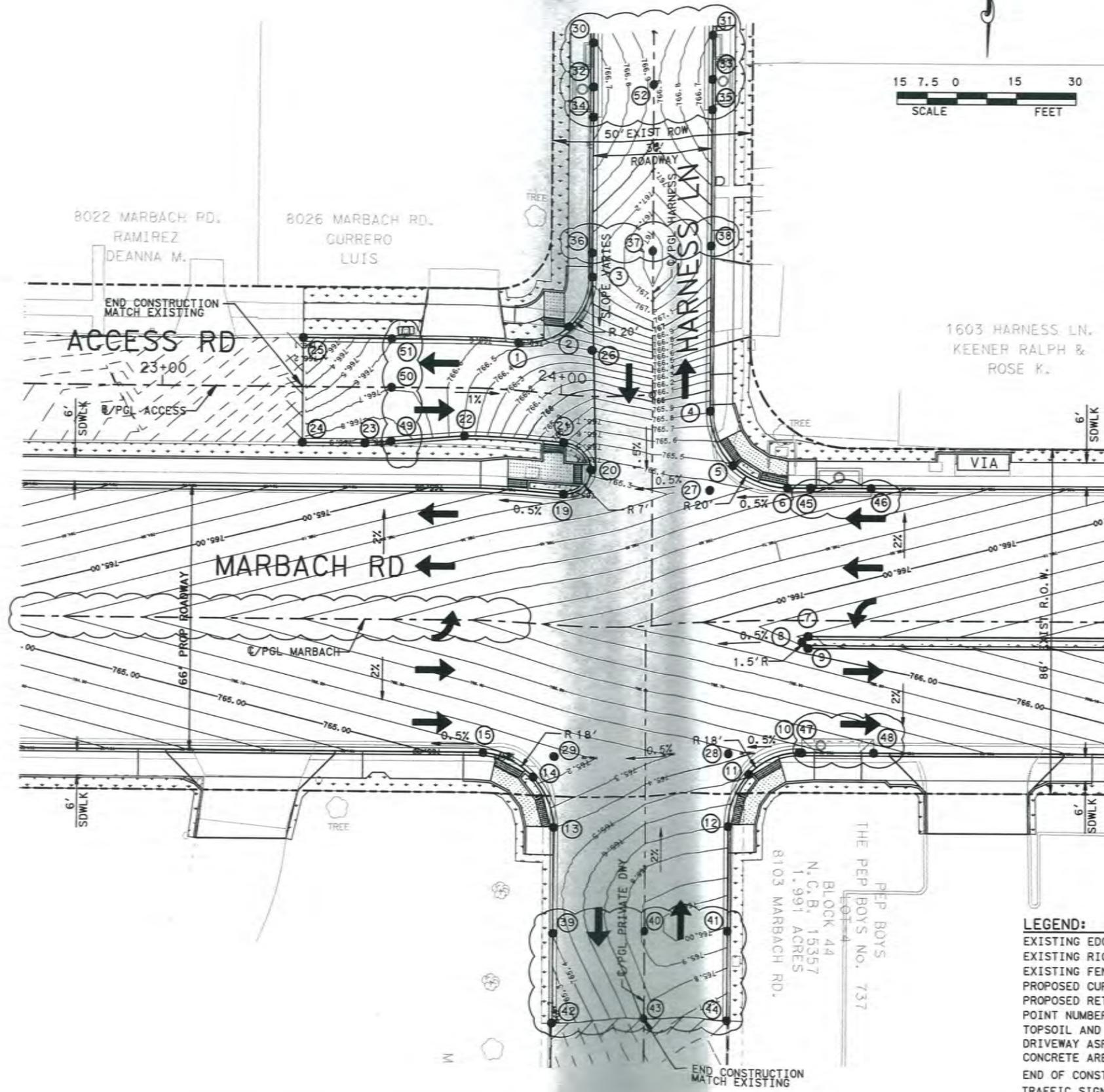
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARBACH RD (PHASE IIB)
FROM MEADOW WAY TO IH 410 FRONTAGE RD
ROADWAY PLAN AND PROFILE
MARBACH RD - STA 80+00.00 TO STA 84+00.00

FINAL SUBMITTAL	PROJECT NO: 40-00308	DATE: 12/6/2013
DRWN BY: CDA/MC	DSGN BY: SS/CDA	CHKD BY: LDW/CB
		SHEET: 115

12/6/2013

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POINT NO.	E/PGL	STATION	OFFSET	GUT ELEV.	TOC ELEV.	LOCATION
1	ACCESS RD	23+89.25	12.00'LT	766.52	767.10	CURB RETURN
2	ACCESS RD	24+02.00	17.25'LT	766.70	-	HC RAMP
3	HARNESS	10+87.94	15.00'LT	767.13	767.71	CURB RETURN
4	HARNESS	10+52.75	15.00'RT	765.81	766.39	CURB RETURN
5	MARBACH	83+77.99	38.85'LT	765.49	-	HC RAMP
6	MARBACH	83+91.88	33.00'LT	765.45	766.03	CURB RETURN
7	MARBACH	83+97.24	4.00'RT	766.21	766.79	MEDIAN RETURN
8	MARBACH	83+95.74	5.50'RT	766.15	766.73	MEDIAN NOSE
9	MARBACH	83+97.24	7.00'RT	766.10	766.68	MEDIAN RETURN
10	MARBACH	83+95.19	33.00'RT	765.48	766.06	CURB RETURN
11	MARBACH	83+82.42	38.32'RT	765.50	766.08	MID PT RADIUS
12	PRIVATE DWY	9+48.85	21.75'RT	765.70	766.28	CURB RETURN
13	PRIVATE DWY	9+49.18	21.75'LT	765.35	765.93	CURB RETURN
14	MARBACH	83+28.59	38.44'RT	765.17	765.75	MID PT RADIUS
15	MARBACH	83+16.00	33.00'RT	765.08	765.66	CURB RETURN
16	OMITTED					
17	OMITTED					
18	OMITTED					
19	MARBACH	83+35.61	33.00'LT	765.17	765.75	MEDIAN RETURN
20	MARBACH	83+42.11	39.50'LT	765.33	-	HC RAMP
21	ACCESS RD	24+00.71	12.00'RT	765.74	766.32	MEDIAN RETURN
22	ACCESS RD	23+75.71	12.00'RT	766.48	767.06	CURB
23	ACCESS RD	23+50.71	13.98'RT	766.92	767.50	CURB
24	ACCESS RD	23+35.00	13.95'RT	766.83	767.41	END CONSTRUCTION*
25	ACCESS RD	23+36.00	12.26'LT	766.06	766.64	END CONSTRUCTION*
26	ACCESS RD	24+07.26	11.53'LT	766.50	-	GUTTER
27	MARBACH	83+72.10	33.00'LT	765.35	-	GUTTER
28	MARBACH	83+77.19	33.00'RT	765.37	-	GUTTER
29	MARBACH	83+33.69	33.00'RT	765.16	-	GUTTER
30	HARNESS	11+46.67	15.00'LT	766.58	767.16	CURB AT INLET
31	HARNESS	11+46.67	15.00'RT	766.58	767.16	CURB AT INLET
32	HARNESS	11+35.60	15.00'LT	766.52	767.10	CURB AT INLET
33	HARNESS	11+35.60	15.00'RT	766.52	767.10	CURB AT INLET
34	HARNESS	11+28.00	15.00'LT	766.55	767.13	CURB AT INLET
35	HARNESS	11+28.00	15.00'RT	766.55	767.13	CURB AT INLET
36	HARNESS	10+93.92	15.00'LT	767.10	767.68	CURB
37	HARNESS	10+93.92	0.00'	767.40	-	PGL
38	HARNESS	10+93.92	15.00'RT	767.10	767.68	CURB
39	PRIVATE DWY	9+22.59	21.75'LT	765.41	765.99	CURB
40	PRIVATE DWY	9+22.59	0.00'	765.93	-	PGL
41	PRIVATE DWY	9+22.59	21.75'RT	765.98	766.56	CURB
42	PRIVATE DWY	9+00.00	21.75'LT	765.15	765.73	END CONSTRUCTION*
43	PRIVATE DWY	9+00.00	0.00'	765.70	-	END CONSTRUCTION*
44	PRIVATE DWY	9+00.00	21.75'RT	765.67	766.25	END CONSTRUCTION*
45	MARBACH	83+97.75	33.00'LT	765.48	766.06	CURB AT INLET
46	MARBACH	84+12.69	33.00'LT	765.55	766.13	CURB AT INLET
47	MARBACH	83+95.88	33.00'RT	765.47	766.05	CURB AT INLET
48	MARBACH	84+13.63	33.00'RT	765.56	766.14	CURB AT INLET
49	ACCESS RD	23+57.29	13.46'RT	766.82	767.40	CURB
50	ACCESS RD	23+57.29	0.00'	766.68	-	PGL
51	ACCESS RD	23+57.29	12.15'LT	766.60	767.18	CURB
52	HARNESS	11+35.60	0.00'	766.82	-	PGL

* MATCH EXISTING

- LEGEND:**
- EXISTING EDGE OF ROADWAY
 - EXISTING RIGHT OF WAY
 - EXISTING FENCE
 - PROPOSED CURB AND GUTTER
 - PROPOSED RETAINING WALL
 - POINT NUMBER CALLOUT
 - TOPSOIL AND SOD
 - DRIVEWAY ASPHALT (EXIST/PROP)
 - CONCRETE AREA
 - END OF CONSTRUCTION
 - TRAFFIC SIGNAL/FLASHER FOUNDATION



Lori Dullnig-Warlen
12/6/13

1	12-06-13	ADDENDUM 1- REVISE MEDIAN, ADD & OMIT POINTS	BMB
REV. NO.	DATE	DESCRIPTION	BY

BAIN MEDINA BAIN, INC.
ENGINEERS & SURVEYORS
TSPS F-001712
7073 San Pedro, San Antonio, Texas, 78216
Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBCOM

CITY OF SAN ANTONIO

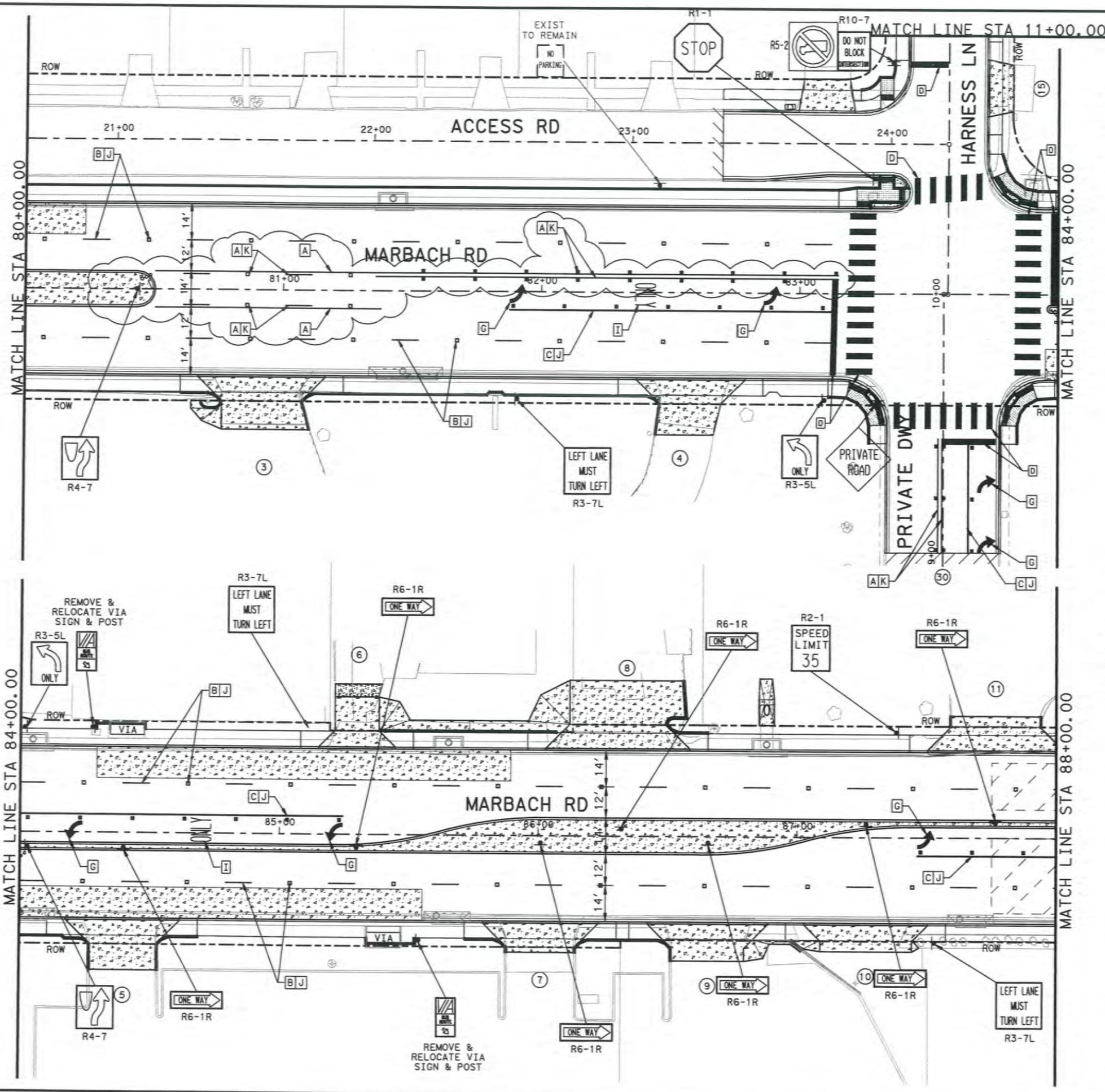
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARBACH RD (PHASE IIB)
FROM MEADOW WAY TO IH 410 FRONTAGE RD
INTERSECTION LAYOUT
INTERSECTION OF MARBACH RD AND HARNESS LN

FINAL SUBMITTAL	PROJECT NO: 40-00308	DATE: 12/6/2013
DRWN BY: CDA/MC	DSGN BY: SS/CDA	CHKD BY: LDW/CB

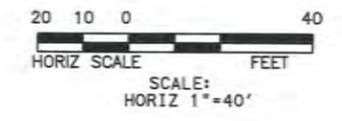
SHEET: 122

12/6/2013
12/6/2013
\\w\work\1186_02_marc\batch_phase_1\1b\TRAFFIC\MARBACH\PH1\B*SGN\KPMK02*tr-cv120413.dgn



ESTIMATED QUANTITIES		
ITEM	UNIT	QTY
OBJECT MARKER ASSEMBLY	EA	2
4 INCH WIDE YELLOW LINE	LF	770
4 INCH WIDE WHITE LINE	LF	360
8 INCH WIDE WHITE LINE	LF	354
24 INCH WIDE WHITE LINE	LF	447
24 INCH WIDE YELLOW LINE	LF	0
RIGHT WHITE ARROW	EA	2
LEFT WHITE ARROW	EA	5
MEDIAN NOSE YELLOW	EA	0
WORD "ONLY"	WORD	2
TRAFFIC BUTTON TYPE I-C	EA	53
TRAFFIC BUTTON TYPE II A-A	EA	28
* SIGNS	EA	19

*CONTRACTOR'S INFO ONLY, SEE PROJECT SUMMARY FOR DETAILS.



- LEGEND:**
- A 4" WIDE YELLOW LINE
 - B 4" WIDE WHITE LINE
 - C 8" WIDE WHITE LINE
 - D 24" WIDE WHITE LINE
 - E 24" WIDE YELLOW LINE
 - F RIGHT WHITE ARROW
 - G LEFT WHITE ARROW
 - H COMBINATION OR STRAIGHT WHITE ARROW
 - I WORD "ONLY"
 - J TRAF BUTTON (TYPE I-C)
 - K TRAF BUTTON (TYPE II-A-A)
 - Object Marker Assembly
 - Sign Post
 - Traffic Signal/Flasher Foundation

NOTE: EACH SIGN POST WITH D3 SIGNS HAS THE NAMES OF TWO STREETS ON IT. EACH STREET NAME SIGN HAS A FRONT AND BACK PLATE THAT ARE IDENTICAL. EACH PAIR OF STREET NAME PLATES WILL BE PAID FOR AS ONE SIGN. PRIVATE ROAD SIGN TO BE REUSED.



1	12-06-13	ADDENDUM 1 - REVISE MEDIAN, PAV MKR & QUANT	BMB
REV. NO.	DATE	DESCRIPTION	BY

BAIN MEDINA BAIN, INC.
ENGINEERS & SURVEYORS
TYPE F-001712
7073 San Pedro, San Antonio, Texas, 78216
Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBI.COM

CITY OF SAN ANTONIO

CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

MARBACH RD (PHASE IIB)
FROM MEADOW WAY TO IH 410 FRONTAGE RD
SIGNING & PAVEMENT MARKINGS
MARBACH RD - STA 80+00.00 TO STA 88+00.00

FINAL SUBMITTAL	PROJECT NO: 40-00308	DATE: 12/6/2013
DRWN BY: CDA/MC	DSGN BY: SS/CDA	CHKD BY: LDM/CB
		SHEET: 171

2/02/15 PM

12/6/2013

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GAS NOTE:
 EX. 20" GAS MAIN IS GOING TO BE RELOCATED TO THE NORTH SIDE OF MARBACH RD. DURING PHASE 1A (SEE GAS PLANS & COSA PLANS FOR CONSTRUCTION PHASES). CONTRACTOR IS TO REMOVE ANY NECESSARY ABANDONED GAS PIPE AND ADD A CONCRETE CAP TO BOTH ENDS OF THE GAS PIPE FOR ALL THE WATER MAIN AND WATER SERVICE INSTALLATIONS (NSPI).

FIRE HYDRANT
 8" X 6" ANCHOR TEE, M.J.
 1-6" GATE VALVE, M.J.
 1-6" VALVE BOX, COMPLETE
 +/- 15 LF OF 6" DI PIPE,
 CUT AS REQUIRED.
 1-STD FIRE HYDRANT, COMPLETE
 (SEE SAWS STD DWG DD-834-00)

AFTER RELEASE FOR SERVICE
 TIE NEW 8" PVC MAIN TO EXISTING 8" DIMAIN.
INSTALL:
 +/- 10 LF OF 8" PVC C-900
 2-8" 1/8" BENDS, M.J.
 RL=9 SEE SAWS DETAIL (DD-839-08)
 +/- 5 LF OF 8" PVC C-900 PIPE,
 1-8" CAST COUPLING, M.J.
 +/- 5 LF OF 8" PVC C-900 PIPE, CUT AS REQUIRED
 CONTRACTOR TO PROVIDE CONCRETE THRUST BLOCKING AND RESTRAINT SYSTEM AT TIE-IN TO EXISTING MAIN.

AFTER RELEASE FOR SERVICE
 TIE NEW 8" PVC MAIN TO EXISTING 6" AC MAIN.
INSTALL:
 +/- 5 LF OF 8" PVC C-900 PIPE, CUT AS REQUIRED.
 1-8" X 6" REDUCER, M.J.
 +/- 10 LF OF 6" PVC C-900 PIPE, CUT AS REQUIRED
 1-6" TRANSITION COUPLING (PVC TO AC)
 CONTRACTOR TO PROVIDE CONCRETE THRUST BLOCKING AND RESTRAINT SYSTEM AT TIE-IN TO EXISTING MAIN.

INSTALL:
 1-8" X 2" THD. X DI. ECCENTRIC REDUCER (TEMP)
 1-2" STD BLOW-OFF (TEMP)
 (DD-844-01, SHEET 3 OF 4)

INSTALL:
 2-8" 1/8" BENDS, M.J.
 RL=9 SEE SAWS DETAIL (DD-839-08)
 +/- 10 LF OF 8" PVC C-900 PIPE.

INSTALL:
 1-12" GATE VALVE, M.J.
 RL=82 SEE SAWS DETAIL (DD-839-05)
 1-6" VALVE BOX COMPLETE

INSTALL:
 2-12" 1/8" VERTICAL BENDS, M.J.
 RL= 34" UPPER BEND
 RL= 7" LOWER BEND
 SEE SAWS DETAIL (DD-839-06)
 +/- 15 LF OF PR.12" PVC C-900 PIPE
 PR. 12" WATER CROSSES 2 FT. UNDER
 PR. 8" SANITARY SEWER LINE 'A' &
 2.5 FT ABOVE PR. 4" X 4" STORM DRAIN.
 (SEE DETAIL 'BB' ON SHEET 2 OF 12)

FIRE HYDRANT
 12" X 6" ANCHOR ROLLED TEE, M.J.
 RL=1" SEE SAWS DETAIL (DD-839-04)
 1-6" 1/8" VERTICAL BEND, M.J.
 RL=8" UPPER BEND
 SEE SAWS DETAIL (DD-839-06)
 RL=44" SEE SAWS DETAIL (DD-839-05)
 1-6" GATE VALVE, M.J.
 +/- 40 LF OF 6" DI PIPE,
 CUT AS REQUIRED.
 1-STD FIRE HYDRANT, COMPLETE
 SEE SAWS DETAIL (DD-834-00)

NOTE:
 FOR THE EX. FIRE HYDRANTS THAT ARE TO BE REMOVED, THE CONTRACTOR IS TO COORDINATE WITH THE SAWS INSPECTOR THE RECYCLE OR DISPOSAL OF FIRE HYDRANTS. (NSPI)

NOTE:
 CPS ENERGY NOTE:
 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 192.68, 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.

ASBESTOS CEMENT PIPE CONNECTIONS & REMOVAL NOTE:
 ASBESTOS CEMENT (A.C.) PIPE, ALSO KNOWN AS TRANSITE PIPE AND WHICH IS KNOWN TO CONTAIN ASBESTOS CONTAINING MATERIAL (ACM), IS LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCURS. PAYMENT FOR SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000, "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".

1 PR. WATER CROSSES UNDER EXISTING 8" SS MAIN (TO BE ABANDONED N.S.P.I.)
 PR. GROUND +/- 765.80
 EX. SS INV +/- 762.76
 PR. WATER TOP +/- 761.80

2 EX. LONG WATER SERVICE SHALL BE CAPPED AT THE EX. 6" WATER MAIN (N.S.P.I.). CONTRACTOR SHALL REPLACE, IF DISTURBED, THE EX. SIDEWALK & CURB.

3 EX. 1" WATER SERVICE TO BE RECONNECTED TO PR. 12" WATER MAIN & ABANDONED AFTERWARDS.

4 AFTER RELEASE FOR SERVICE: TIE NEW 12" TO PR. 36" CSC WATER MAIN. PERFORM THIS CONNECTION ONCE THE 36" CSC PIPE IS RELEASED FOR SERVICE. (NSPI) (SEE DETAIL 'EE' ON SHEET 2 OF 12)

5 PR. 8" PVC WATER MAIN CROSSES OVER THE PR. 36" CSC WATER MAIN. PR. ATT UT AND EX. 36" CSC WATER MAIN
 PR. GROUND +/- 765.80
 WATER INV +/- 760.8
 TOP PR. 36" +/- 752.38
 TOP PR. UT +/- 760.00
 TOP EX. 36" +/- 759.21

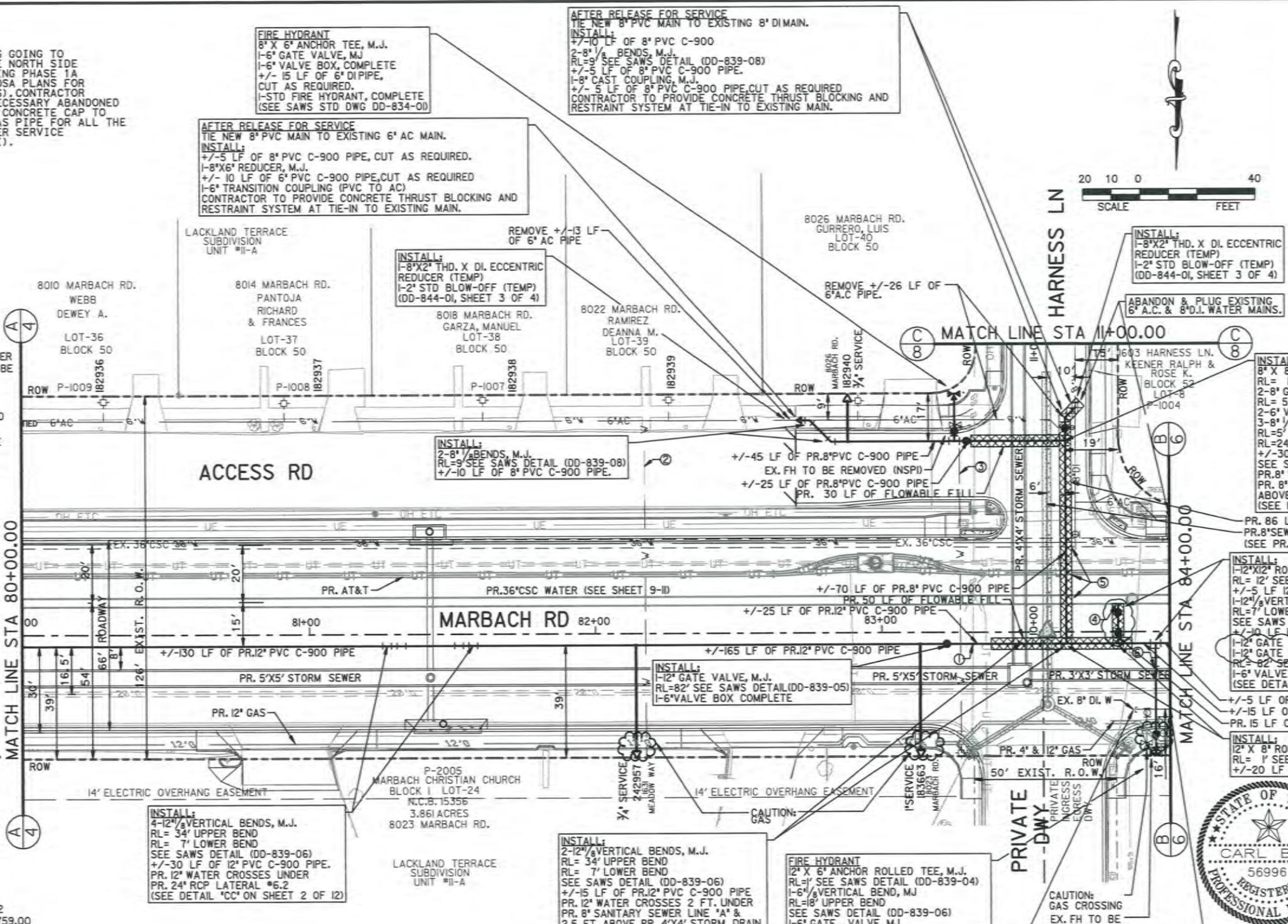
6 PR. 6" DI FIRE MAIN CROSSES OVER THE PR. 3" X 3" SBC MAIN.
 PR. GROUND +/- 765.82
 PR. WATER INV +/- 761.32
 TOP PR. 3" X 3" SBC +/- 759.00

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 IS TO CONTACT THE TELEPHONE COMPANY LOCATOR 48 HOURS PRIOR TO EXCAVATION AT 1-800-888-5827. CONTRACTOR IS TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION.

TRENCH EXCAVATION SAFETY PROTECTION
 CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/ EQUIPMENT CONSULTANT, IF ANY SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES 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 RETAINED 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.

*THE CONTRACTOR SHOULD CALL FOR LOCATES THROUGH THE "ONE CALL" UTILITY LOCATE SERVICE 1-800-344-8377 48 HOURS PRIOR TO CONSTRUCTION/EXCAVATION WORK. CONTRACTORS HAVE THE RESPONSIBILITY TO PROTECT AND SUPPORT TELEPHONE COMPANY PLANT DURING CONSTRUCTION.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION ANY DAMAGE DONE TO EXISTING CURBS, SIDEWALKS, OR DRIVEWAYS.



ITEM	DESCRIPTION	UNIT	QUANT
103.1	Remove Concrete Curb	LF	10
103.2	Remove Concrete Sidewalks & Driveways	SF	40
205.4	Hot Mix Asphalt Pmt Type 'A' (2" depth)	SY	269
206.1	1/2" Asphalt Treated Base	SY	269
43	Flowable Fill	CY	100
500.1	Concrete Curb	LF	10
502.1	Concrete Sidewalks	SY	5
550	Trench Excavation Safety Protection	LF	620
808	6" PVC Waterline (Restrained)	LF	10
808	8" PVC Waterline (Restrained)	LF	190
808	12" PVC Waterline (Restrained)	LF	420
824	Relay 3/4" Short Service	EA	2
824	Relay 1" Short Service	EA	1
824.5	Customer Shut Off Valve	EA	3
828	8" Gate Valve & Box Complete	EA	2
828	12" Gate Valve & Box Complete	EA	3
833	Existing Meter and Meter Box Relocation	EA	1
833	Existing Meter and New Meter Box Relocation	EA	2
833	Meter Box	EA	3
834	Fire Hydrant	EA	2
836	Pipe Fittings, All Sizes and Types	TON	1.9
840	6" Water Tie-Ins	EA	1
840	8" Water Tie-Ins	EA	1
844	2" Blowoff, Temporary	EA	2
3000	Removal, Transportation and Disposal of AC Pipe	LF	39

LEGEND

EXISTING FIRE HYDRANT	
EXISTING POWER POLE	
EXISTING WATER VALVE	
EXISTING SEWER MANHOLE	
EXISTING SEWER CLEAN-OUT	
EXISTING MAIL BOX	
PROP. FLOW ARROW	
EXISTING FLOW ARROW	
EXISTING WATER METER	
FLOWABLE FILL LIMITS	
CONCRETE	
STEEL CASING	
PROP. SEWER MAIN	
PROP. SEWER MANHOLE	
PROP WATER MAIN	
EXIST WATER MAIN	
EX. GAS MAIN	
EX. SANITARY SEWER	
STORM SEWER	
UTILITY POLE LINE	
OVERHEAD ELEC. CABLE	
UNDERGROUND TEL. CABLE	
NEW UNMETERED SERVICE:	
3/4" SINGLE	
1" DUAL	
SERVICE RECONNECT:	
3/4"	
1" OR LARGER	
SERVICE RELAY:	
3/4"	
1" OR LARGER	
SERVICE RELOCATE:	
3/4"	
1" OR LARGER	
RELOCATE METER	
NEW SERVICE:	
3/4"	
1" OR LARGER	
CAUTION GAS CROSSING	
CONSTRUCTION LIMITS	



The seal appearing on this document was authorized by
 CARL BAIN
 P.E. 56996 ON
 12-06-13

Carl Bain

REV. NO.	DATE	DESCRIPTION	BY
1	12-06-13	ADDENDUM I - REVISED PER SAWS COMMENTS	BMB

BAIN MEDINA BAIN, INC.
 ENGINEERS & SURVEYORS
 TBPE F-001712
 7073 San Pedro, San Antonio, Texas, 78216
 Phone: 210-494-7223 Fax: 210-490-5120 WWW.BMBI.COM

MARBACH RD (PHASE IIB)
 FROM MEADOW WAY TO IH 410 FRONTAGE RD.
WATER PLANS
 MARBACH RD-STA 80+00.00 TO STA 84+00.00

DEVELOPER: _____
 CONT. _____ BUDGET PROJ. _____
 SUBMITTED _____
 APPROVED _____

MAP No. _____ SHEET 5 OF 12
 SECT. No. _____
 DR. MC CK. LDLT JOB No. 12-5021

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

RECEIPT OF ADDENDUM NUMBER(S) 1 IS HEREBY ACKNOWLEDGED FOR PLANS AND

SPECIFICATIONS FOR CONSTRUCTION OF MARBACH ROAD PH IIB PROJECT 40-00308

FOR WHICH BIDS WILL BE OPENED ON December 17, 2013

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

Company Name: _____

Address: _____

City/State/Zip Code: _____

Date: _____

Signature

Print Name/Title