



City of San Antonio
TRANSPORTATION AND CAPITAL IMPROVEMENTS

ADDENDUM No. 1

FORMAL INVITATION FOR BIDS (IFB)

PROJECT NAME: Belford Area Drainage – ID NO.:40-00423

DATE: July 14, 2015

This addendum is separated into sections for convenience; however, all contractors, subcontractors, material men, and other parties shall be responsible for reading the entire addendum. The failure to list an item or items in all affected sections of this addendum does not relieve any party affected from performing as per instructions, providing that the information is set forth one time any place in this addendum. These documents shall be attached to and become part of the Contract Documents for this project. The contractor shall be required to sign an acknowledgement of the receipt of this addendum and submit with their proposal package.

GENERAL:

1. The following changes and/or additions to the Contract Documents, via this addendum, shall apply to proposals made for and to the execution of the various parts of the work affected thereby.
2. Careful note of the Addendum shall be taken by all interested parties and all trades affected shall be fully advised in their performance of the work involved.

GENERAL COMMENTS:

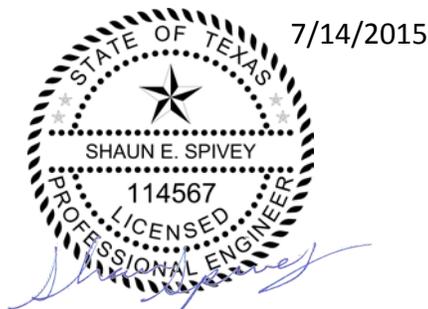
1. Additive Alternate 3 is removed from this project.
2. Please replace 020 Bid Form and 025 Unit Pricing Form with attached 020 Bid Form and 025 Unit Pricing Form. Adjustments include
 - o Removed Additive alternate 3
 - o Revised storm quantities
 - o Revised SW3P quantities
3. General Conditions for Construction Contracts (Form 081) is revised as follows:
 - a. Section 1.1.11 of the General Conditions for City of San Antonio Construction Contracts is deleted and replaced in its entirety with the following:
 - 1.1.11 "DAY" as used in the Contract Documents shall mean Calendar Day, unless otherwise specifically defined. A Calendar Day is a day of 24 hours, measured from midnight to the next midnight, unless otherwise specifically stipulated. A Working Day is measured from sunrise to sundown Monday through Saturday, except legal holidays, or the hours during which Contractor has been authorized and/or directed to work by Owner.
 - b. Section 3.10.6.3 of the General Conditions for City of San Antonio Construction Contracts will be modified to include in its entirety the following:
 - 3.10.6.3 Work shall be scheduled based upon Contractor's six (6) day work week, utilizing the appropriate calendar assignments and using compatible Project Scheduling software.
 - c. Section 8.1.3 in Article VIII. TIME has been deleted in its entirety.
 - d. Section 8.2.2 of the Special Conditions for Horizontal Projects for City of San Antonio Construction Contracts is deleted and replaced in its entirety with the following:

8.2.2 No more than eight (8) hours of standby time shall be paid during a 24-hour day, no more than forty-eight (48) hours shall be paid per week for standby time and no more than two hundred and eight (208) hours per month shall be paid of standby time. Standby time shall be computed at fifty percent (50%) of the rates found in the Rental Rate Blue Book for Construction Equipment and shall be calculated by dividing the monthly rate found in the Blue Book by 208, then multiplying that total by the regional adjustment factor and the rate adjustment factor. Operating costs shall not be charged by Contractor.

4. Removal of Additive Alternate 3. Sheet 148 – has been updated to reflect the removal of Additive Alternate 3.
5. Revised Riprap Note. Sheet 155 – Has been updated to reflect a new riprap note for the rock rip-rap drop structure.
6. SW3P Revised. Remove sheet 195 to reflect removal of Additive Alternate 3. Sheets 196 and 197 revised to add additional inlet protection. Sheet Index has been revised to reflect sheet 195 has been removed.
7. Summary sheets revised. Sheets 3-6 have been updated to reflect removal of Additive Alternate 3, adjustments in storm system quantities and adjustment to inlet protection.
8. Revised Soil Policy Note. Sheet 12 has been updated with revised Excess Soil Disposal policy note.

QUESTIONS FROM PROSPECTIVE BIDDERS:

1. Q. Is excavation quantity for the channel to the final grade or to under the 4" of topsoil?
 - A. The excavation quantity includes the over excavation required to place the topsoil.
2. Q. Does the dollar estimate for the COSA portion of \$6,163,000.00 include both Alternates?
 - A. The dollar amount included Additive Alternates 1, 2 and 3. After removing Additive Alternate 3 the new City portion is \$5,903,000. The new overall project total is 6,587,500.
3. Q. There are 360 calendar days set up for this project. How many days will be allowed if Alternate I is awarded? How many days for Alternate II if awarded?
 - A. The 360 calendar days is the total construction duration, including Additive Alternates, SAWS work and CPS Energy Work. Thirty (30) calendar days will be subtracted for each Additive Alternate that isn't added.
4. Q. Along the proposed drainage channel there are several references to fill existing channel with the excavated material. What is the anticipated quantity (cubic yardage) the existing channels will take?
 - A. Compacted fill will be installed at the interface between the proposed channel and the existing channel as shown on sheet 148 and on sheet 149 per CoSA Item 105. The existing channel will remain in place in all other areas.
5. Q. For the proposed Rip Rap stone 24" & 36" thick, is 5" to 6" diameter individual size stone acceptable?
 - A. Rip Rap shall be installed in accordance with TxDOT 432. The median stone size for the riprap shall be D50=18-inches. According to Table 2 of TxDOT Item 432, the D8 specifies 92% of the riprap shall be 6.59 inches are larger. TxDOT allows that 8% of the stones to be less than six inches.



CITY OF SAN ANTONIO

Project Name: Belford Area Drainage
ID NO.: 40-00423

Date Issued: June 26, 2015

The estimated construction budget for this contract is \$6,587,500.00

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BID FORM (Addendum No. 1)

I. BASE BID

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

_____ \$ _____

II. ADDITIVE ALTERNATE NO. 1

Total Amount of Bid for Additive Alternate #1 (Insert Amount in Words and Numbers):

_____ \$ _____

III. ADDITIVE ALTERNATE NO. 2

Total Amount of Bid for Additive Alternate #2 (Insert Amount in Words and Numbers):

_____ \$ _____

IV. UNIT PRICES

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

V. ALLOWANCES (if applicable)

Official Name of Company (legal)

Telephone No.

Address

Fax No.

City, State and Zip Code

E-mail Address

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

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

CITY OF SAN ANTONIO
025 UNIT PRICING FORM (Addendum No. 1)

PROJECT NAME: Belford Area Drainage
PROJECT NO. 40-00423

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 STREET/ROADWAY BASE BID ITEMS									
	COSA 100.1			MOBILIZATION	LS	1			
	COSA 100.2			INSURANCE AND BONDING	LS	1			
	COSA 101.1			PREPARING RIGHT-OF-WAY	LS	1			
	COSA 530.1			BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1			
	COSA 103.1			REMOVE CONCRETE CURB	LF	5236			
	COSA 103.3			REMOVE CONCRETE SIDEWALKS & DRIVEWAYS	SF	10998			
	COSA 103.4			REMOVE CONCRETE RIPRAP APRON	SF	729			
	COSA 104.1			STREET EXCAVATION	CY	4792			
	COSA 105.1			CHANNEL EXCAVATION	CY	14573			
	COSA 106.1			BOX CULVERT EXCAVATION AND BACKFILL	CY	16175			
	COSA 107.1			EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	392			
	COSA 108.1			LIME TREATED SUBGRADE (6" INCHES COMP. DEPTH)	SY	11159			
	COSA 108.2			LIME (0.5" deep) (Approx. 30lb/SY)	TON	169			
	COSA 203.1			TACK COAT	GAL	964			
	COSA 205.2			HOT MIX ASPHALTIC PAVEMENT, TYPE B (6" COMP. DEPTH)	SY	11159			
	COSA 205.4			HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH)	SY	9636			
	COSA 208.1			SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT(2" TO 2.5" DEPTH)	SY	84			
	COSA 306.1			STRUCTURAL EXCAVATION	CY	1			
	COSA 307.1			CONCRETE STRUCTURE (HEADWALL)	EA	1			
	COSA 307.2			CONCRETE STRUCTURE (MISCELLANEOUS)(VIA BENCH PAD)	SY	7			
	COSA 309.1			PRECAST REINFORCED CONCRETE BOX CULVERT (5'X4')	LF	641			
	COSA 309.1			PRECAST REINFORCED CONCRETE BOX CULVERT (10'X4')	LF	2883			
	COSA 309.1			PRECAST REINFORCED CONCRETE BOX PLUG (5'X4')	EA	1			
	COSA 309.1			PRECAST REINFORCED CONCRETE BOX PLUG (10'X4')	EA	1			
	COSA 401.1			REINFORCED CONCRETE PIPE (CLASS III)(24" DIA)	LF	697			
	COSA 401.1			REINFORCED CONCRETE PIPE (CLASS III)(30" DIA)	LF	487			
	COSA 401.1			REINFORCED CONCRETE PIPE (PLUG)(30-INCH DIAMETER)	EA	2			
	COSA 403.1			JUNCTION BOX 4'x4'x4'	EA	2			
	COSA 403.1			JUNCTION BOX 5'x5'x5'	EA	0			
	COSA 403.6			SPECIAL TRANSITION (5'X4' TO 10'X4')(COMPLETE)	EA	1			
	COSA 403.7			INLET (COMPLETE) (10')(TYPE CI)	EA	21			
	COSA 403.7			INLET (COMPLETE) (10')(TYPE CII)	EA	5			
	COSA 403.7			INLET (COMPLETE) (10')(TYPE CI) (6 FT DEEP)	EA	10			
	COSA 403.7			INLET (COMPLETE) (10')(TYPE CII) (6 FT DEEP)	EA	2			
	COSA 403.7			INLET (COMPLETE) (10')(TYPE CI) (7 FT DEEP)	EA	6			
	COSA 403.7			INLET (COMPLETE) (10')(TYPE CII) (7 FT DEEP)	EA	1			
	COSA 403.7			INLET (COMPLETE) (10')(TYPE CI) (8 FT DEEP)	EA	3			
	COSA 403.9			INLET EXTENSIONS (10 FT)	EA	33			
	COSA 403.15			MANHOLE VERTICAL STACK (NORMAL)	EA	14			
	COSA 410.2			GRAVEL SUBGRADE FILLER	CY	1556			
	COSA 500.1			CONCRETE CURBING	LF	28			
	COSA 500.4			CONCRETE CURB & GUTTER	LF	5236			
	COSA 502.1			CONCRETE SIDEWALKS	SY	1869			
	COSA 503.1			PORTLAND CEMENT CONCRETE DRIVEWAYS	SY	724			

CITY OF SAN ANTONIO
025 UNIT PRICING FORM (Addendum No. 1)

PROJECT NAME: Belford Area Drainage
PROJECT NO. 40-00423

	1103			POINT REPAIRS AND OBSTRUCTION REMOVALS	EA	1			
TOTAL BID AMOUNT (BASE SAWS SEWER):									
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 ITEMS									
	100			MOBILIZATION	LS	1			
	101			PREPARING RIGHT-OF-WAY	LS	1			
	550			TRENCH EXCAVATION SAFETY PROTECTION	LF	451			
	818			6" PVC WATERLINE	LF	120			
	818			8" PVC WATERLINE	LF	125			
	834.1			FIRE HYDRANT	EA	3			
	836			PIPE FITTINGS, ALL SIZES AND TYPES	TON	2			
	840			6" TIE-IN	EA	4			
	840			8" TIE-IN	EA	8			
	841			HYDROSTATIC TESTING	EA	6			
	844			2" BLOWOFF, TEMPORARY	EA	12			
	856.2			6" CARRIER PIPE (OPEN CUT) (PVC)	LF	100			
	856.2			8" CARRIER PIPE (OPEN CUT) (PVC)	LF	190			
	856.3			CASING OR LINER 24"	LF	290			
	1015			SERVICE LINE BREAKS/LEAK REPAIRS	EA	1			
	1020			WATER MAIN BREAKS/LEAK REPAIRS	EA	1			
TOTAL BID AMOUNT (BASE SAWS WATER):									
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 ITEMS									
				INSTALL GAS MAIN OR CASING (DISTANCE AS MEASURED ALONG THE TOP OF TRENCH), 2" PLASTIC PIPE AND TRACER WIRE	LF	454			
				INSTALL GAS MAIN OR CASING (DISTANCE AS MEASURED ALONG THE TOP OF TRENCH), 4" STEEL PIPE	LF	27			
				INSTALL GAS MAIN OR CASING (DISTANCE AS MEASURED ALONG THE TOP OF TRENCH), 20" STEEL PIPE	LF	150			
				REINFORCED CONCRETE/FLATWORK	SY	11			
				FLOWABLE FILL	CY	19			
				CUT AND RESTORE PAVEMENT. TO BE USED AS DIRECTED BY CPS REPRESENTATIVE.	SY	47			
				CONTRACTOR TO HIRE T.D. WILLIAMSON (TDW) TO PROVIDE ALL LABOR AND NECESSARY FITTINGS FOR DOUBLE-STOPPLE BYPASS PLUGGING AND HOT TAPPING OPERATION ON EXISTING 24" STEEL GAS MAIN. CONTRACTOR TO PROVIDE ANY ADDITIONAL LABOR NECESSARY TO COMPLETE THE BYPASS OR HOT TAPPING AND PLUGGING.					
				12" STEEL BYPASS (24" STOPPLE FITTINGS)	EA	1			
				CONTRACTOR TO HIRE T.D. WILLIAMSON (TDW) TO PROVIDE ALL LABOR AND NECESSARY FITTINGS FOR DOUBLE-STOPPLE BYPASS PLUGGING AND HOT TAPPING OPERATION ON EXISTING 20" and 24" STEEL GAS MAINS. CONTRACTOR TO PROVIDE ANY ADDITIONAL LABOR NECESSARY TO COMPLETE THE BYPASS OR HOT TAPPING AND PLUGGING.					
				12" STEEL BYPASS (20" & 24" STOPPLE FITTINGS)	EA	1			

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CONTRACTOR TO HIRE T.D. WILLIAMSON (TDW) TO PROVIDE ALL LABOR AND NECESSARY FITTINGS FOR DOUBLE-STOPPLE BYPASS PLUGGING AND HOT TAPPING OPERATION ON EXISTING 4" STEEL GAS MAIN. CONTRACTOR TO PROVIDE ANY ADDITIONAL LABOR NECESSARY TO COMPLETE THE BYPASS OR HOT TAPPING AND PLUGGING.

4" STEEL BYPASS (4" STOPPLE FITTINGS)

EA

1

TOTAL BID AMOUNT (BASE CPS GAS):

TOTAL BASE BID AMOUNT: _____

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
COSA STREET/ROADWAY ADDITIVE ALTERNATE #1 BID ITEMS									
	COSA 100.1			MOBILIZATION	LS	1			
	COSA 100.2			INSURANCE AND BONDING	LS	1			
	COSA 101.1			PREPARING RIGHT-OF-WAY	LS	1			
	COSA 530.1			BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1			
	COSA 103.1			REMOVE CONCRETE CURB	LF	1120			
	COSA 103.3			REMOVE CONCRETE SIDEWALKS & DRIVEWAYS	SF	1456			
	COSA 104.1			STREET EXCAVATION	CY	1283			
	COSA 106.1			BOX CULVERT EXCAVATION AND BACKFILL	CY	2256			
	COSA 107.1			EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	15			
	COSA 108.1			LIME TREATED SUBGRADE (6" INCHES COMP. DEPTH)	SY	2319			
	COSA 108.2			LIME (0.5" deep) (Approx. 30lb/SY)	TON	35			
	COSA 203.1			TACK COAT	GAL	198			
	COSA 205.2			HOT MIX ASPHALTIC PAVEMENT, TYPE B (6" COMP. DEPTH)	SY	2026			
	COSA 205.2			HOT MIX ASPHALTIC PAVEMENT, TYPE B (9" COMP. DEPTH)(BUS PAD)	SY	294			
	COSA 205.4			HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH)	SY	1975			
	COSA 306.1			STRUCTURAL EXCAVATION	CY	1			
	COSA 307.2			CONCRETE STRUCTURE (MISCELLANEOUS)(VIA BENCH PAD)	SY	19			
	COSA 309.1			PRECAST REINFORCED CONCRETE BOX CULVERT (4'X3')	LF	120			
	COSA 309.1			PRECAST REINFORCED CONCRETE BOX CULVERT (5'X4')	LF	359			
	COSA 401.1			REINFORCED CONCRETE PIPE (CLASS III)(24" DIA)	LF	174			
	COSA 401.1			REINFORCED CONCRETE PIPE (CLASS III)(30" DIA)	LF	33			
	COSA 403.6			SPECIAL TRANSITION (4'X3' TO 5'X4')(COMPLETE)	EA	1			
	COSA 403.7			INLET (COMPLETE) (10')(TYPE CI)	EA	1			
	COSA 403.7			INLET (COMPLETE) (10')(TYPE CI) (6 FT DEEP)	EA	1			
	COSA 403.7			INLET (COMPLETE) (10')(TYPE CII) (6 FT DEEP)	EA	1			
	COSA 403.7			INLET (COMPLETE) (10')(TYPE CI) (7 FT DEEP)	EA	2			
	COSA 403.7			INLET (COMPLETE) (10')(TYPE CI) (8 FT DEEP)	EA	2			
	COSA 403.7			INLET (COMPLETE) (10')(TYPE CII) (8 FT DEEP)	EA	1			
	COSA 403.9			INLET EXTENSIONS (10 FT)	EA	4			
	COSA 403.15			MANHOLE VERTICAL STACK (NORMAL)	EA	3			
	COSA 410.2			GRAVEL SUBGRADE FILLER	CY	34			
	COSA 500.4			CONCRETE CURB & GUTTER	LF	1120			
	COSA 502.1			CONCRETE SIDEWALKS	SY	391			
	COSA 503.1			PORTLAND CEMENT CONCRETE DRIVEWAYS	SY	136			
	COSA 503.2			PORTLAND CEMENT CONCRETE DRIVEWAYS - COMMERCIAL	SY	112			
	COSA 515.1			TOPSOIL	CY	131			

CITY OF SAN ANTONIO
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	COSA 516.1			BERMUDA SODDING	SY	295			
	COSA 516.2			ST. AUGUSTINE SODDING	SY	295			
	COSA 523.1			ADJUSTING CHAIN LINK VEHICULAR GATES	EA	1			
	COSA 531.3			R1-1 STOP (30")(HIGH DENSITY)	EA	2			
	COSA 531.57			10 INCH [253mm] STREET NAME, BLOCK NUMBER (VARIES x10")(HIGH DENSITY) (TWO STREET NAME SIGNS BACK TO BACK PER EACH)	EA	2			
	COSA 540.9			TEMPORARY SEDIMENT CONTROL FENCE	LF	280			
	COSA 540.10			CURB INLET GRAVEL FILTERS	LF	100			
	COSA 550.1			TRENCH EXCAVATION SAFETY PROTECTION	LF	686			
	COSA 801.2			LEVEL IIA PROTECTIVE FENCING	LF	74			
	COSA 802.3			LEVEL IIB PROTECTIVE FENCING	LF	4			
	COSA 802.1			TREE PRUNING	EA	1			

TOTAL BID AMOUNT (ADD. ALT. #1 STREET/ROADWAY):

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 ADDITIVE ALTERNATE #1 BID ITEMS									
	834.1			FIRE HYDRANT	EA	1			
	836			PIPE FITTINGS, ALL SIZES AND TYPES	TON	0.03			

TOTAL BID AMOUNT (ADD. ALT. #1 SAWS WATER):

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 ITEMS									
				INSTALL GAS MAIN OR CASING (DISTANCE AS MEASURED ALONG THE TOP OF TRENCH), 2" PLASTIC PIPE AND TRACER WIRE	LF	139			
				RERUN AND LOWER GAS SERVICE OFF NEW MAIN (METER TO METER) SIZES 1/2" THROUGH 4". (INCLUDES INSTALLATION OF NEW ANODELESS RISER). SHORT SIDE	EA	1			
				CUT BACK, PUMP TEST, AND TIE OVER EXISTING PLASTIC SERVICE TO NEW PLASTIC MAIN.	EA	1			
				FLOWABLE FILL	CY	3			
				CUT AND RESTORE PAVEMENT. TO BE USED AS DIRECTED BY CPS REPRESENTATIVE.	SY	16			

TOTAL BID AMOUNT (ADD. ALT. #1 CPS GAS):

TOTAL ADDITIVE ALTERNATE #1 BID AMOUNT: _____

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
COSA STREET/ROADWAY ADDITIVE ALTERNATE #2 BID ITEMS									
	COSA 100.1			MOBILIZATION	LS	1			
	COSA 100.2			INSURANCE AND BONDING	LS	1			
	COSA 101.1			PREPARING RIGHT-OF-WAY	LS	1			
	COSA 530.1			BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1			
	COSA 103.1			REMOVE CONCRETE CURB	LF	979			
	COSA 103.3			REMOVE CONCRETE SIDEWALKS & DRIVEWAYS	SF	2778			
	COSA 104.1			STREET EXCAVATION	CY	955			
	COSA 106.1			BOX CULVERT EXCAVATION AND BACKFILL	CY	1544			
	COSA 107.1			EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	9			
	COSA 108.1			LIME TREATED SUBGRADE (6" INCHES COMP. DEPTH)	SY	2088			

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COSA 108.2		LIME (0.5' deep) (Approx. 30lb/SY)	TON	32		
COSA 203.1		TACK COAT	GAL	209		
COSA 205.2		HOT MIX ASPHALTIC PAVEMENT, TYPE B (6" COMP. DEPTH)	SY	1991		
COSA 205.2		HOT MIX ASPHALTIC PAVEMENT, TYPE B (9" COMP. DEPTH)(BUS PAD)	SY	98		
COSA 205.4		HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH)	SY	1788		
COSA 306.1		STRUCTURAL EXCAVATION	CY	1		
COSA 307.2		CONCRETE STRUCTURE (MISCELLANEOUS)(VIA BENCH PAD)	SY	7		
COSA 309.1		PRECAST REINFORCED CONCRETE BOX CULVERT (4'X3')	LF	383		
COSA 401.1		REINFORCED CONCRETE PIPE (CLASS III)(24" DIA)	LF	189		
COSA 401.2		REINFORCED CONCRETE PIPE (CLASS III)(36" DIA)	LF	26		
COSA 403.1		JUNCTION BOX 5'x5'x5'	EA	1		
COSA 403.7		INLET (COMPLETE) (10')(TYPE CI)	EA	2		
COSA 403.7		INLET (COMPLETE) (10')(TYPE CII) (6 FT DEEP)	EA	2		
COSA 403.7		INLET (COMPLETE) (10')(TYPE CI) (8 FT DEEP)	EA	4		
COSA 403.9		INLET EXTENSIONS (10 FT)	EA	4		
COSA 403.15		MANHOLE VERTICAL STACK (NORMAL)	EA	2		
COSA 410.2		GRAVEL SUBGRADE FILLER	CY	24		
COSA 500.4		CONCRETE CURB & GUTTER	LF	979		
COSA 502.1		CONCRETE SIDEWALKS	SY	337		
COSA 503.1		PORTLAND CEMENT CONCRETE DRIVEWAYS	SY	164		
COSA 503.2		PORTLAND CEMENT CONCRETE DRIVEWAYS - COMMERCIAL	SY	44		
COSA 515.1		TOPSOIL	CY	107		
COSA 516.1		BERMUDA SODDING	SY	241		
COSA 516.2		ST. AUGUSTINE SODDING	SY	241		
COSA 531.3		R1-1 STOP (30")(HIGH DENSITY)	EA	3		
COSA 531.57		10 INCH [253mm] STREET NAME, BLOCK NUMBER (VARIES x10')(HIGH DENSITY) (TWO STREET NAME SIGNS BACK TO BACK PER EACH)	EA	4		
COSA 531		REMOVE & REPLACE GOOD NEIGHBORHOOD SIGN	EA	2		
COSA 540.9		TEMPORARY SEDIMENT CONTROL FENCE	LF	245		
COSA 540.10		CURB INLET GRAVEL FILTERS	LF	120		
COSA 550.1		TRENCH EXCAVATION SAFETY PROTECTION	LF	598		
COSA 801.2		LEVEL IIA PROTECTIVE FENCING	LF	71		
COSA 802.1		TREE PRUNING	EA	1		

TOTAL BID AMOUNT (ADD. ALT. #2 STREET/ROADWAY):

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 ADDITIVE ALTERNATE #2 BID ITEMS									
	834.1			FIRE HYDRANT	EA	1			

TOTAL BID AMOUNT (ADD. ALT. #2 SAWS WATER):

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 #2 BID ITEMS									

				INSTALL GAS MAIN OR CASING (DISTANCE AS MEASURED ALONG THE TOP OF TRENCH), 2" PLASTIC PIPE AND TRACER WIRE	LF	72			
				FLOWABLE FILL	CY	2			
				CUT AND RESTORE PAVEMENT. TO BE USED AS DIRECTED BY CPS REPRESENTATIVE.	SY	7			

TOTAL BID AMOUNT (ADD. ALT. #2 CPS GAS):

CITY OF SAN ANTONIO
025 UNIT PRICING FORM (Addendum No. 1)

PROJECT NAME: Belford Area Drainage
PROJECT NO. 40-00423

TOTAL ADDITIVE ALTERNATE #2 BID AMOUNT: _____

CPS Bid Item Notes:

NOTE A: For each of the CPS Energy gas bid items, the Contractor's work is to include: trenching, joining, testing, coating steel, building and painting risers and meter set-ups, connecting new pipe to existing pipe and installing all necessary fittings for tie-ins such as, stopper fittings and 3-way stopper tees, valves, insulating joints, Installing all necessary cathodic protection devices such as CPTLB's and anodes, sand padding, backfilling and compacting to consistency of original soil, 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 Energy Inspector.

NOTE C: Bid quantities shown are estimates by CPS Energy. 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 Energy's insurance requirements are specified in Exhibit GAS-1.

NOTE E: The COST to abandon the existing main(s) is not an ADDITIONAL item and is to be included in the Unit Price(s) for the new main(s).

_____ 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: _____

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FREESE AND NICHOLS, INC. TEXAS REGISTERED ENGINEERING FIRM F-2144			
ISSUED FOR BID			
NO:	DATE	REVISION	APPROVED BY
1	7/14/2015	UPDATE SHEET 195	SES
FREESE AND NICHOLS <small>4040 Broadway Street, Suite 600 San Antonio, Texas 78209-6353 PHONE: (210) 298-3800 FAX: (210) 298-3801 WWW.FREESE.COM</small>			
CITY OF SAN ANTONIO DEPARTMENT OF TRANSPORTATION AND CAPITAL IMPROVEMENTS			
BELFORD AREA DRAINAGE INDEX OF SHEETS			
BID SUBMITTAL	PROJECT NO.: 40-00423	DATE: 06/12/2015	
DRWN. BY: MJM	DSGN. BY: SES	CHKD. BY: JCC	SHEET NO.: 2 OF 224

Quantity Summary - Belford from Utopia to STA. 29+35, Utopia from Belford to STA. 16+65, Channel - Base Bid

ITEM NO.	SPEC. NO.	DESCRIPTION	UNIT	Belford	Utopia	Channel	TOTALS
				QTY	QTY	QTY	QTY
1	COSA 100.1	MOBILIZATION	LS				1
2	COSA 100.2	INSURANCE AND BONDING	LS				1
3	COSA 101.1	PREPARING RIGHT-OF-WAY	LS				1
4	COSA 530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING	LS				1
5	COSA 103.1	REMOVE CONCRETE CURB	LF	4,644	592	0	5,236
6	COSA 103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAYS	SF	10,182	816	0	10,998
7	COSA 103.4	REMOVE CONCRETE RIPRAP APRON	SF	0	0	729	729
8	COSA 104.1	STREET EXCAVATION	CY	4,117	675	0	4,792
9	COSA 105.1	CHANNEL EXCAVATION	CY	0	0	14,573	14,573
10	COSA 106.1	BOX CULVERT EXCAVATION AND BACKFILL	CY	14,378	1,797	0	16,175
11	COSA 107.1	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	52	6	334	392
12	COSA 108.1	LIME TREATED SUBGRADE (6" INCHES COMP. DEPTH)	SY	9,946	1,213	0	11,159
13	COSA 108.2	LIME (0.5' deep) (Approx. 30lb/SY)	TON	150	19	0	169
14	COSA 203.1	TACK COAT	GAL	861	103	0	964
15	COSA 205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (6" COMP. DEPTH)	SY	9,946	1,213	0	11,159
16	COSA 205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH)	SY	8,606	1,030	0	9,636
17	COSA 306.1	STRUCTURAL EXCAVATION	CY	1	0	0	1
18	COSA 208.1	SALVAGING, HAULING & STOCKPILING RECLAIMABLE ASPHALTIC PAVEMENT(2" TO 2.5" DEPTH)	SY	84	0	0	84
19	COSA 307.1	CONCRETE STRUCTURE (HEADWALL)	EA	0	0	1	1
20	COSA 307.2	CONCRETE STRUCTURE (MISCELLANEOUS)(VIA BENCH PAD)	SY	7	0	0	7
21	COSA 309.1	PRECAST REINFORCED CONCRETE BOX CULVERT (5'X4')	LF	305	336	0	641
22	COSA 309.1	PRECAST REINFORCED CONCRETE BOX CULVERT (10'X4')	LF	2,883	0	0	2,883
23	COSA 309.1	PRECAST REINFORCED CONCRETE BOX PLUG (5'X4')	EA	0	1	0	1
24	COSA 309.1	PRECAST REINFORCED CONCRETE BOX PLUG (10'X4')	EA	1	0	0	1
25	COSA 401.1	REINFORCED CONCRETE PIPE (CLASS III)(24" DIA)	LF	589	108	0	697
26	COSA 401.1	REINFORCED CONCRETE PIPE (CLASS III)(30" DIA)	LF	487	0	0	487
27	COSA 401.1	REINFORCED CONCRETE PIPE (PLUG)(30-INCH DIAMETER)	EA	2	0	0	2
28	COSA 403.1	JUNCTION BOX 4'x4'x4'	EA	2	0	0	2
29	COSA 403.1	JUNCTION BOX 5'x5'x5'	EA	0	0	0	0
30	COSA 403.6	SPECIAL TRANSITION (5'X4' TO 10'X4')(COMPLETE)	EA	1	0	0	1
31	COSA 403.7	INLET (COMPLETE) (10')(TYPE CI)	EA	21	0	0	21
32	COSA 403.7	INLET (COMPLETE) (10')(TYPE CII)	EA	5	0	0	5
33	COSA 403.7	INLET (COMPLETE) (10')(TYPE CI) (6 FT DEEP)	EA	6	4	0	10
34	COSA 403.7	INLET (COMPLETE) (10')(TYPE CII) (6 FT DEEP)	EA	2	0	0	2
35	COSA 403.7	INLET (COMPLETE) (10')(TYPE CI) (7 FT DEEP)	EA	5	1	0	6
36	COSA 403.7	INLET (COMPLETE) (10')(TYPE CII) (7 FT DEEP)	EA	1	0	0	1
37	COSA 403.7	INLET (COMPLETE) (10')(TYPE CI) (8 FT DEEP)	EA	0	3	0	3
38	COSA 403.9	INLET EXTENSIONS (10 FT)	EA	33	0	0	33
39	COSA 403.15	MANHOLE VERTICAL STACK (NORMAL)	EA	11	3	0	14
40	COSA 410.2	GRAVEL SUBGRADE FILLER	CY	1,378	134	44	1,556
41	COSA 500.1	CONCRETE CURBING	LF	0	0	28	28
42	COSA 500.4	CONCRETE CURB & GUTTER	LF	4,644	592	0	5,236
43	COSA 502.1	CONCRETE SIDEWALKS	SY	1,532	337	0	1,869
44	COSA 503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS	SY	608	116	0	724
45	COSA 503.2	PORTLAND CEMENT CONCRETE DRIVEWAYS - COMMERCIAL	SY	347	0	0	347
46	COSA 505.1	CONCRETE RIPRAP (5" THICK)	SY	0	0	545	545
47	COSA 505.1	CONCRETE APRON (6" THICK)	SY	0	0	166	166
48	COSA 505.1	CONCRETE APRON (6" THICK) (W/ BAFFLES)	SY	0	0	134	134
49	COSA 505.1	CONCRETE RIPRAP (PILOT CHANNEL)	SY	0	0	611	611
50	COSA 509.1	METAL BEAM GUARD RAIL	LF	135	0	0	135
51	COSA 515.1	TOPSOIL	CY	541	107	978	1,626
52	COSA 516.1	BERMUDA SODDING	SY	1,217	241	9,998	11,456
53	COSA 516.2	ST. AUGUSTINE SODDING	SY	1,217	241	0	1,458
54	COSA 522.1	SIDEWALK PIPE RAILING	LF	0	20	80	100
55	COSA 523.1	ADJUSTING CHAIN LINK VEHICULAR GATES	EA	5	0	0	5
56	COSA 523.3	ADJUSTING CHAIN LINK PEDESTRIAN GATE	EA	2	0	0	2
57	COSA 524.1	CONCRETE STEPS	CY	0	2	0	2
58	COSA 531.3	R1-1 STOP (30")(HIGH DENSITY)	EA	13	1	0	14
59	COSA 531.57	10 INCH [253mm] STREET NAME, BLOCK NUMBER (VARIES x10")(HIGH DENSITY) (TWO STREET NAME SIGNS BACK TO BACK PER EACH)	EA	14	2	0	16
60	COSA 531	W8-18 ROAD MAY FLOOD	EA	0	1	0	1

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FREESSE AND NICHOLS, INC.
TEXAS REGISTERED ENGINEERING FIRM F-2144

ISSUED FOR BID

SHAUN E. SPROEY
114567
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REVISION	APPROVED BY

FREESSE & NICHOLS
4040 Broadway Street, Suite 600
San Antonio, Texas 78209-6353
PHONE: (210) 298-3800 FAX: (210) 298-3801 WWW.FREESSE.COM

CITY OF SAN ANTONIO
DEPARTMENT OF TRANSPORTATION AND CAPITAL IMPROVEMENTS

BELFORD AREA DRAINAGE
SUMMARY SHEETS

BID SUBMITTAL	PROJECT NO.: 40-00423	DATE: 06/12/2015
DRWN. BY: MJM	DSGN. BY: SES	CHKD. BY: JCC
SHEET NO.: 3		OF 224

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Quantity Summary - Belford from Utopia to STA. 29+35, Utopia from Belford to STA. 16+65, Channel - Base Bid - Continued							
ITEM NO.	SPEC. NO.	DESCRIPTION	UNIT	Belford	Utopia	Channel	TOTALS
				QTY	QTY	QTY	QTY
61	COSA 531	W17-1 SPEED HUMP	EA	0	3	0	3
62	COSA 531	REMOVE & REPLACE GOOD NEIGHBORHOOD SIGN	EA	5	0	0	5
63	COSA 531	W1-10 DOUBLE ARROW	EA	1	0	0	1
64	COSA 540.1	ROCK FILTER DAMS (INSTALL/REMOVE) (TYPE 3)	LF	0	0	180	180
65	COSA 540.6	CONSTRUCTION EXITS (INSTALL/REMOVE)	SY	40	0	0	40
66	COSA 540.9	TEMPORARY SEDIMENT CONTROL FENCE	LF	1,161	296	520	1,977
67	COSA 540.10	CURB INLET GRAVEL FILTERS	LF	804	120	0	924
68	COSA 550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	3,084	472	0	3,556
69	COSA 552.1	REMOVING AND RELOCATING IRRIGATION SYSTEM	LF	100	0	0	100
70	COSA 554.1	EROSION CONTROL MATTING (TYPE G)	SY	0	0	550	550
71	COSA 799	SPEED HUMP (COMPLETE PER EACH INSTALL LOCATION)	EA	0	1	0	1
72	COSA 801.2	LEVEL IIA PROTECTIVE FENCING	LF	710	39	180	929
73	COSA 801.3	LEVEL IIB PROTECTIVE FENCING	LF	28	0	0	28
74	COSA 802.1	TREE PRUNING	EA	4	0	0	4
75	2500	COFFERDAM AND SITE DEWATERING	LS	0	0	1	1
76	TxDOT 432.2023	RIPRAP STONE PROTECTION (24")	CY	0	0	44	44
77	TxDOT 432.2024	RIPRAP STONE PROTECTION (36")	CY	0	0	132	132
78	TxDOT 529.2026	CONC CURB (ARMOR CURB SLOT)	LF	34	0	0	34

FREESE AND NICHOLS, INC.
 TEXAS REGISTERED ENGINEERING FIRM F-2144

ISSUED FOR BID

Shaun E. Spivey

NO:	DATE	REVISION	APPROVED BY

FREESE & NICHOLS
 4040 Broadway Street, Suite 600
 San Antonio, Texas 78209-6353
 PHONE: (210) 298-3800 FAX: (210) 298-3801 WWW.FREESE.COM

CITY OF SAN ANTONIO
 DEPARTMENT OF TRANSPORTATION AND CAPITAL IMPROVEMENTS

BELFORD AREA DRAINAGE
SUMMARY SHEETS

BID SUBMITTAL	PROJECT NO.: 40-00423	DATE: 06/12/2015
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Quantity Summary - Belford from 29+35 to 31A 34+30 - Alternate Bid 1

ITEM NO.	SPEC. NO.	DESCRIPTION	UNIT	Alt Bid 1	
				QTY	
1	COSA 100.1	MOBILIZATION	LS	1	
2	COSA 100.2	INSURANCE AND BONDING	LS	1	
3	COSA 101.1	PREPARING RIGHT-OF-WAY	LS	1	
4	COSA 530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1	
5	COSA 103.1	REMOVE CONCRETE CURB	LF	1,120	
6	COSA 103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAYS	SF	1,456	
7	COSA 104.1	STREET EXCAVATION	CY	1,283	
8	COSA 106.1	BOX CULVERT EXCAVATION AND BACKFILL	CY	2,256	
9	COSA 107.1	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	15	
10	COSA 108.1	LIME TREATED SUBGRADE (6" INCHES COMP. DEPTH)	SY	2,319	
11	COSA 108.2	LIME (0.5' deep) (Approx. 30lb/SY)	TON	35	
12	COSA 203.1	TACK COAT	GAL	198	
13	COSA 205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (6" COMP. DEPTH)	SY	2,026	
14	COSA 205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (9" COMP. DEPTH)(BUS PAD)	SY	294	
15	COSA 205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH)	SY	1,975	
16	COSA 306.1	STRUCTURAL EXCAVATION	CY	1	
17	COSA 307.2	CONCRETE STRUCTURE (MISCELLANEOUS)(VIA BENCH PAD)	SY	19	
18	COSA 309.1	PRECAST REINFORCED CONCRETE BOX CULVERT (4'X3')	LF	120	
19	COSA 309.1	PRECAST REINFORCED CONCRETE BOX CULVERT (5'X4')	LF	359	
20	COSA 401.1	REINFORCED CONCRETE PIPE (CLASS III)(24" DIA)	LF	174	
21	COSA 401.1	REINFORCED CONCRETE PIPE (CLASS III)(30" DIA)	LF	33	
22	COSA 403.6	SPECIAL TRANSITION (4'X3' TO 5'X4')(COMPLETE)	EA	1	
23	COSA 403.7	INLET (COMPLETE) (10')(TYPE CI)	EA	1	
24	COSA 403.7	INLET (COMPLETE) (10')(TYPE CI) (6 FT DEEP)	EA	1	
25	COSA 403.7	INLET (COMPLETE) (10')(TYPE CII) (6 FT DEEP)	EA	1	
26	COSA 403.7	INLET (COMPLETE) (10')(TYPE CI) (7 FT DEEP)	EA	2	
27	COSA 403.7	INLET (COMPLETE) (10')(TYPE CI) (8 FT DEEP)	EA	2	
28	COSA 403.7	INLET (COMPLETE) (10')(TYPE CII) (8 FT DEEP)	EA	1	
29	COSA 403.9	INLET EXTENSIONS (10 FT)	EA	4	
30	COSA 403.15	MANHOLE VERTICAL STACK (NORMAL)	EA	3	
31	COSA 410.2	GRAVEL SUBGRADE FILLER	CY	34	
32	COSA 500.4	CONCRETE CURB & GUTTER	LF	1,120	
33	COSA 502.1	CONCRETE SIDEWALKS	SY	391	
34	COSA 503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS	SY	136	
35	COSA 503.2	PORTLAND CEMENT CONCRETE DRIVEWAYS - COMMERCIAL	SY	112	
36	COSA 515.1	TOPSOIL	CY	131	
37	COSA 516.1	BERMUDA SODDING	SY	295	
38	COSA 516.2	ST. AUGUSTINE SODDING	SY	295	
39	COSA 523.1	ADJUSTING CHAIN LINK VEHICULAR GATES	EA	1	
40	COSA 531.3	R1-1 STOP (30")(HIGH DENSITY)	EA	2	
41	COSA 531.57	10 INCH [253mm] STREET NAME, BLOCK NUMBER (VARIES x10")(HIGH DENSITY) (TWO STREET NAME SIGNS BACK TO BACK PER EACH)	EA	2	
42	COSA 540.9	TEMPORARY SEDIMENT CONTROL FENCE	LF	280	
43	COSA 540.10	CURB INLET GRAVEL FILTERS	LF	100	
44	COSA 550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	686	
45	COSA 801.2	LEVEL IIA PROTECTIVE FENCING	LF	74	
46	COSA 802.3	LEVEL IIB PROTECTIVE FENCING	LF	4	
47	COSA 802.1	TREE PRUNING	EA	1	

FREESE AND NICHOLS, INC.
 TEXAS REGISTERED ENGINEERING FIRM F-2144

ISSUED FOR BID

Shaun E. Strivey

NO:	DATE	REVISION	APPROVED BY

FREESE & NICHOLS
 4040 Broadway Street, Suite 600
 San Antonio, Texas 78209-6353
 PHONE: (210) 298-3800 FAX: (210) 298-3801 WWW.FREESE.COM

CITY OF SAN ANTONIO
 DEPARTMENT OF TRANSPORTATION AND CAPITAL IMPROVEMENTS
 BELFORD AREA DRAINAGE
SUMMARY SHEETS

BID SUBMITTAL	PROJECT NO.: 40-00423	DATE: 06/12/2015
DRWN. BY: MJM	DSGN. BY: SES	CHKD. BY: JCC
SHEET NO.: 5		OF 224

Quantity Summary - Belford From STA 34+30 to Galway Dr. - Alternate Bid 2				
ITEM NO.	SPEC. NO.	DESCRIPTION	UNIT	Alt Bid 2
				QTY
1	COSA 100.1	MOBILIZATION	LS	1
2	COSA 100.2	INSURANCE AND BONDING	LS	1
3	COSA 101.1	PREPARING RIGHT-OF-WAY	LS	1
4	COSA 530.1	BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1
5	COSA 103.1	REMOVE CONCRETE CURB	LF	979
6	COSA 103.3	REMOVE CONCRETE SIDEWALKS & DRIVEWAYS	SF	2,778
7	COSA 104.1	STREET EXCAVATION	CY	955
8	COSA 106.1	BOX CULVERT EXCAVATION AND BACKFILL	CY	1,544
9	COSA 107.1	EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	9
10	COSA 108.1	LIME TREATED SUBGRADE (6" INCHES COMP. DEPTH)	SY	2,088
11	COSA 108.2	LIME (0.5' deep) (Approx. 30lb/SY)	TON	32
12	COSA 203.1	TACK COAT	GAL	209
13	COSA 205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (6" COMP. DEPTH)	SY	1,991
14	COSA 205.2	HOT MIX ASPHALTIC PAVEMENT, TYPE B (9" COMP. DEPTH)(BUS PAD)	SY	98
15	COSA 205.4	HOT MIX ASPHALTIC PAVEMENT, TYPE D (2" COMP. DEPTH)	SY	1,788
16	COSA 306.1	STRUCTURAL EXCAVATION	CY	1
17	COSA 307.2	CONCRETE STRUCTURE (MISCELLANEOUS)(VIA BENCH PAD)	SY	7
18	COSA 309.1	PRECAST REINFORCED CONCRETE BOX CULVERT (4'X3')	LF	383
19	COSA 401.1	REINFORCED CONCRETE PIPE (CLASS III)(24" DIA)	LF	189
20	COSA 401.2	REINFORCED CONCRETE PIPE (CLASS III)(36" DIA)	LF	26
21	COSA 403.1	JUNCTION BOX 5'x5'x5'	EA	1
22	COSA 403.7	INLET (COMPLETE) (10')(TYPE CI)	EA	2
23	COSA 403.7	INLET (COMPLETE) (10')(TYPE CII) (6 FT DEEP)	EA	2
24	COSA 403.7	INLET (COMPLETE) (10')(TYPE CI) (8 FT DEEP)	EA	4
25	COSA 403.9	INLET EXTENSIONS (10 FT)	EA	4
26	COSA 403.15	MANHOLE VERTICAL STACK (NORMAL)	EA	2
27	COSA 410.2	GRAVEL SUBGRADE FILLER	CY	24
28	COSA 500.4	CONCRETE CURB & GUTTER	LF	979
29	COSA 502.1	CONCRETE SIDEWALKS	SY	337
30	COSA 503.1	PORTLAND CEMENT CONCRETE DRIVEWAYS	SY	164
31	COSA 503.2	PORTLAND CEMENT CONCRETE DRIVEWAYS - COMMERCIAL	SY	44
32	COSA 515.1	TOPSOIL	CY	107
33	COSA 516.1	BERMUDA SODDING	SY	241
34	COSA 516.2	ST. AUGUSTINE SODDING	SY	241
35	COSA 531.3	R1-1 STOP (30")(HIGH DENSITY)	EA	3
36	COSA 531.57	10 INCH [253mm] STREET NAME, BLOCK NUMBER (VARIES x10")(HIGH DENSITY) (TWO STREET NAME SIGNS BACK TO BACK PER EACH)	EA	4
37	COSA 531	REMOVE & REPLACE GOOD NEIGHBORHOOD SIGN	EA	2
38	COSA 540.9	TEMPORARY SEDIMENT CONTROL FENCE	LF	245
39	COSA 540.10	CURB INLET GRAVEL FILTERS	LF	120
40	COSA 550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	598
41	COSA 801.2	LEVEL IIA PROTECTIVE FENCING	LF	71
42	COSA 801.3	LEVEL IIB PROTECTIVE FENCING	LF	0
43	COSA 802.1	TREE PRUNING	EA	1

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FREESSE AND NICHOLS, INC.
TEXAS REGISTERED ENGINEERING FIRM F-2144

ISSUED FOR BID

Shaun E. Strivey

NO.	DATE	REVISION	APPROVED BY

FREESSE & NICHOLS
4040 Broadway Street, Suite 600
San Antonio, Texas 78209-6353
PHONE: (210) 298-3800 FAX: (210) 298-3801 WWW.FREESSE.COM

CITY OF SAN ANTONIO
DEPARTMENT OF TRANSPORTATION AND CAPITAL IMPROVEMENTS

BELFORD AREA DRAINAGE
SUMMARY SHEETS

BID SUBMITTAL	PROJECT NO.: 40-00423	DATE: 06/12/2015
DRWN. BY: MJM	DSGN. BY: SES	CHKD. BY: JCC
SHEET NO.: 6		OF 224

THE FOLLOWING CHANGES ARE MADE TO THE CITY OF SAN ANTONIO'S GENERAL NOTES:

ADDITIONAL GENERAL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL PROPERTY OWNERS PRIOR TO AND FENCE OR GATE REMOVAL FOR PET MANAGEMENT PURPOSES.
2. CONTRACTOR IS RESPONSIBLE FOR VERIFYING CONDITION OF ANY IRRIGATION LINES PRIOR TO CONSTRUCTION.
3. CONTRACTOR IS RESPONSIBLE FOR COORDINATING RELOCATION OF PRIVATE IRRIGATION LINES WITH ALL PROPERTY OWNERS PRIOR TO CONSTRUCTION.
4. SHOULD CONSTRUCTION IMPACT RESIDENTS RECEIVING SOLID WASTE COLLECTION SERVICE FROM THE CITY (GARBAGE COLLECTION, RECYCLING COLLECTION, ORGANICS COLLECTION, BRUSH COLLECTION, BULKY-TRASH COLLECTION), CONTRACTOR SHALL NOTIFY THE SOLID WASTE MANAGEMENT DEPARTMENT AT 207-6427 OR 207-6428 TO JOINTLY COORDINATE A SERVICE DELIVERY PLAN IN ORDER TO MINIMIZE DISRUPTION OF ROUTINE SOLID WASTE COLLECTION SERVICES DURING CONSTRUCTION.
5. EXCESS SOIL DISPOSAL: CONTRACTOR SHALL PROVIDE A SUBMITTAL REGARDING SOIL DISPOSAL SITES TO CITY 45 DAYS PRIOR TO COMMENCEMENT OF HAULING OFF ANY EXCAVATED AND/OR EXCESS FILL MATERIAL FROM THE PROJECT SITE. THE CONDITIONS SET FORTH HEREIN SOLELY ARE DUE TO A DESIRE BY CITY TO MANAGE AND DOCUMENT THE DISPOSAL OF SOILS FROM THIS PROJECT SITE, NOT DUE TO ANY ENVIRONMENTAL CONCERNS RELATIVE TO THE MATERIAL BEING DISPOSED OF. ACCORDINGLY, IN THE SOIL DISPOSAL CONTRACTOR SUBMITTAL:

⚠ CONTRACTOR SHALL CERTIFY AND ASSURE THE NUMBER OF SOIL DISPOSAL SITES CONTRACTOR UTILIZES DOES NOT EXCEED THREE (3) SITES.

CONTRACTOR SHALL CERTIFY THAT NO DISPOSAL AREAS ARE WITHIN THE FLOOD PLAIN AND PROVIDE OWNER EVIDENCE TO THAT EFFECT.

CONTRACTOR SHALL PROVIDE ALL AFFECTED LANDOWNER'S WRITTEN AUTHORIZATION TO DISPOSE OF SOIL FROM THIS PROJECT SITE ON HIS/HER/ITS PROPERTY.

CONTRACTOR SHALL INCLUDE PROVISIONS IN LANDOWNER AGREEMENTS THAT CITY RESERVES THE RIGHT TO CONDUCT INDEPENDENT VISUAL INSPECTIONS AND SOIL TESTING ON LISTED PROPERTIES PRIOR TO DISPOSAL OF THIS PROJECT'S EXCESS SOILS, TO DETERMINE BACKGROUND LEVELS OF VARIOUS ELEMENTS AS IDENTIFIED BY CITY. SAID LANDOWNER AGREEMENTS SHALL PROVIDE AN EFFECTIVE RIGHT OF ENTRY THAT WILL EXPIRE UPON SUBSTANTIAL COMPLETION OF THE PROJECT.

CONTRACTOR AGREES TO ABIDE BY LANDOWNERS WRITTEN CONDITIONS IN LANDOWNER AGREEMENTS, INCLUDING THOSE RELATED TO PLACING, COMPACTING, RESTORATION AND EROSION CONTROL OF THE SITE(S). LANDOWNER WILL BE REQUESTED TO PROVIDE FINAL WRITTEN APPROVAL PRIOR TO SUBSTANTIAL COMPLETION AND ANY COSTS CITY INCURS, TO ADDRESS LEGITIMATE LANDOWNER CONCERNS, WILL BE CONSIDERED AND MAY BE DEDUCTED FROM CONTRACTOR'S FINAL PAYMENT, AS DETERMINED BY THE CITY.

ACCORDINGLY, LANDOWNERS SHALL PROVIDE CERTIFICATION TO CONTRACTOR AND CONTRACTOR SHALL INCLUDE SAID CERTIFICATION IN ITS SUBMITTAL THAT EXCESS SOILS SHALL NOT BE HAULED TO RESIDENTIAL PROPERTIES. EVERY ATTEMPT SHALL BE MADE TO DISPOSE OF EXCESS SOILS AT EITHER COMMERCIAL OR INDUSTRIAL PROPERTIES.

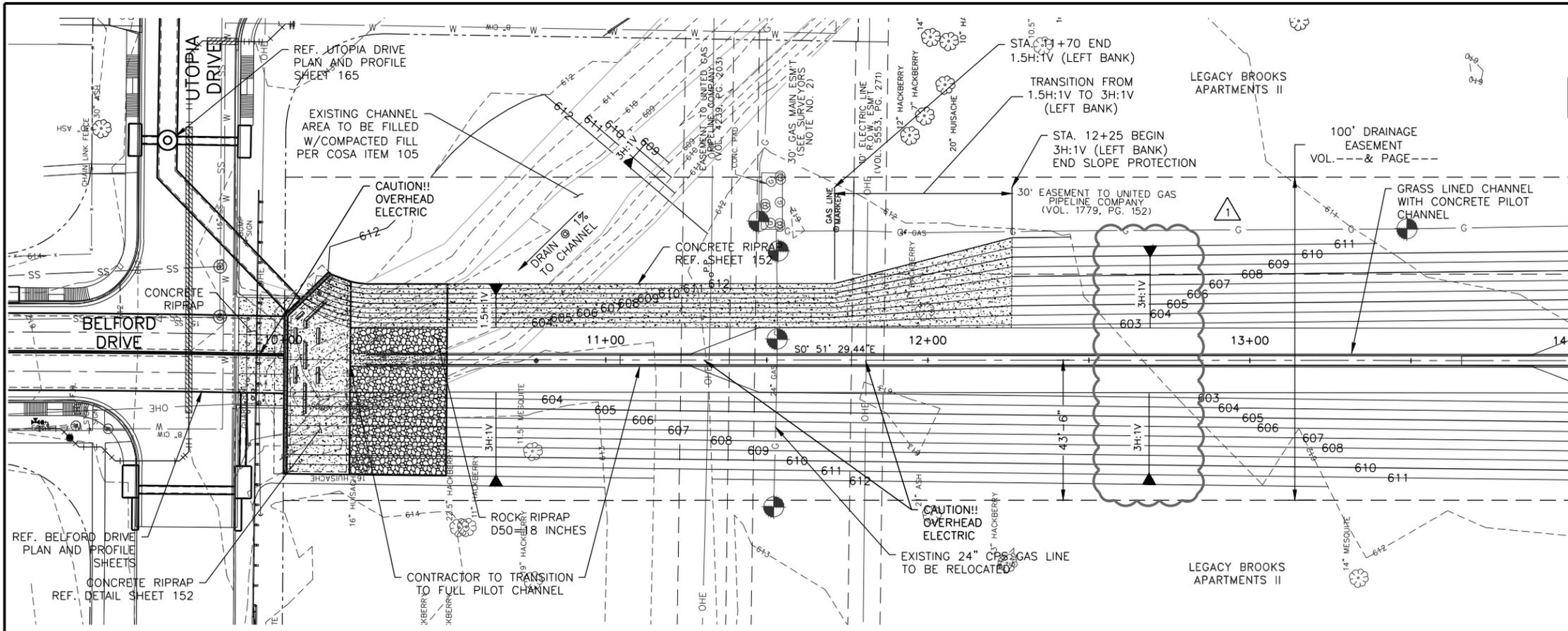
CONTRACTOR AGREES TO COMPLY WITH OTHER REGULATORY AGENCIES FOR PROPER AND LEGAL IMPLEMENTATION OF THE REUSE PLAN PRIOR TO SOILS TRANSPORT, AS APPLICABLE. CONTRACTOR SHALL ENSURE AN APPROPRIATE STORM WATER POLLUTION PREVENTION PLAN IS DEVELOPED AND IMPLEMENTED, IN ACCORDANCE WITH TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM REQUIREMENTS, AS APPLICABLE.

CONTRACTOR SHALL BE RESPONSIBLE FOR TRACKING EXCESS SOIL DISPOSED AT APPROVED DESIGNATED AREAS. CONTRACTOR SHALL TRACK LOADS AND PROVIDE DOCUMENTATION, SUCH AS TRIP TICKETS OR $\frac{1}{32}$ BILL OF LANDING^{3/32} FOR ALL TRANSPORTED SOIL TO EACH APPROVED SITE.

ADDITIONAL STORMWATER NOTES

1. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN ALL REQUIRED STORMWATER PERMITS, FEES, AND APPROVALS. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PERMITS REQUIRED FOR CONSTRUCTION IN DRAINAGE EASEMENTS, RIGHT-OF-WAYS, AND FLOODPLAINS.
2. THE CONTRACTOR SHALL NOTIFY STORM WATER ENGINEERING AT LEAST 24 HOURS PRIOR TO THE INSTALLATION OF ANY DRAINAGE FACILITY WITHIN A DRAINAGE EASEMENT OR STREET RIGHT-OF-WAY NOT INDICATED ON THE CONSTRUCTION PLANS.
3. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING EXISTING DRAINAGE FACILITIES FROM DAMAGE. ANY DAMAGE TO EXISTING DRAINAGE SYSTEMS, WHETHER OR NOT SHOWN ON THE PLANS, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR AT HIS EXPENSE. THE CONTRACTOR SHALL NOTIFY STORM WATER ENGINEERING AT 210-207-8052 AS SOON AS CONFLICTS WITH UTILITIES ARE ENCOUNTERED OR ANY DRAINAGE SYSTEM IS DAMAGED DURING CONSTRUCTION.
4. CONSTRUCTION SPOILS WILL NOT BE ALLOWED TO BE DEPOSITED ANYWHERE WITHIN A DRAINAGE EASEMENT, RIGHT-OF-WAY OR FLOODPLAIN WITHIN THE LIMITS OF THE PROJECT AND SHALL BE DISPOSED OFFSITE IN COMPLIANCE WITH CURRENT APPLICABLE REGULATIONS.
5. NO STRUCTURE, FENCES, WALLS, LANDSCAPING, OR OTHER OBSTRUCTIONS THAT IMPEDE DRAINAGE SHALL BE PLACED WITHIN THE LIMITS OF THE DRAINAGE EASEMENTS SHOWN ON THE CONSTRUCTION DOCUMENTS.
6. UPON COMPLETION OF TRENCHING, THE AREA WILL BE BACKFILLED AND COMPACTED TO ITS ORIGINAL CONDITION. TRENCHES/BORE PITS TO BE OPEN AND UNATTENDED LONGER THAN 24 HOURS SHALL BE PROTECTED TO WITHSTAND ALL HYDRODYNAMIC AND HYDROSTATIC FORCES AND PREVENT DOWNSTREAM IMPACTS. TRENCHES/BORE PITS TO BE OPEN LONGER THAN 30 DAYS AFTER STARTING EXCAVATION SHALL BE BACKFILLED WITH A SEMI-PERMANENT REPAIR BACKFILL.
7. IMPROVED SECTIONS OF EARTHEN CHANNELS AND/OR WATERWAYS WILL BE VEGETATED BY SEEDING OR SODDING. EIGHTY-FIVE PERCENT OF THE CHANNEL SURFACE AREA MUST HAVE ESTABLISHED VEGETATION BEFORE THE CITY OF SAN ANTONIO WILL ACCEPT THE CHANNEL FOR MAINTENANCE.
8. CONTRACTOR SHALL ESTABLISH TEMPORARY DRAINAGE FACILITIES IN THE DRAINAGE CHANNEL AND WITHIN ALL DISTURBED AREAS AS NEEDED FOR CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF WATER AS DESCRIBED IN SPECIAL SPECIFICATION 2500.

NO:	DATE	REVISION	APPROVED BY
1	7/14/2015	REVISED SOIL NOTE	SES
 FREES & NICHOLS 4040 Broadway Street, Suite 600 San Antonio, Texas 78209-6353 PHONE: (210) 298-3800 FAX: (210) 298-3801 WWW.FREES.COM			
CITY OF SAN ANTONIO CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT			
PROJECT TITLE SUPPLEMENTAL GENERAL NOTES			
BID SUBMITTAL	PROJECT NO.:	40-00423	DATE: 06/12/2015
DRWN. BY:	DSGN. BY:	CHKD. BY:	SHEET NO.: 12 OF 224



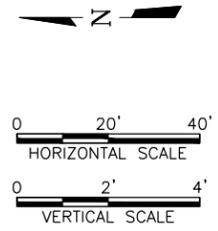
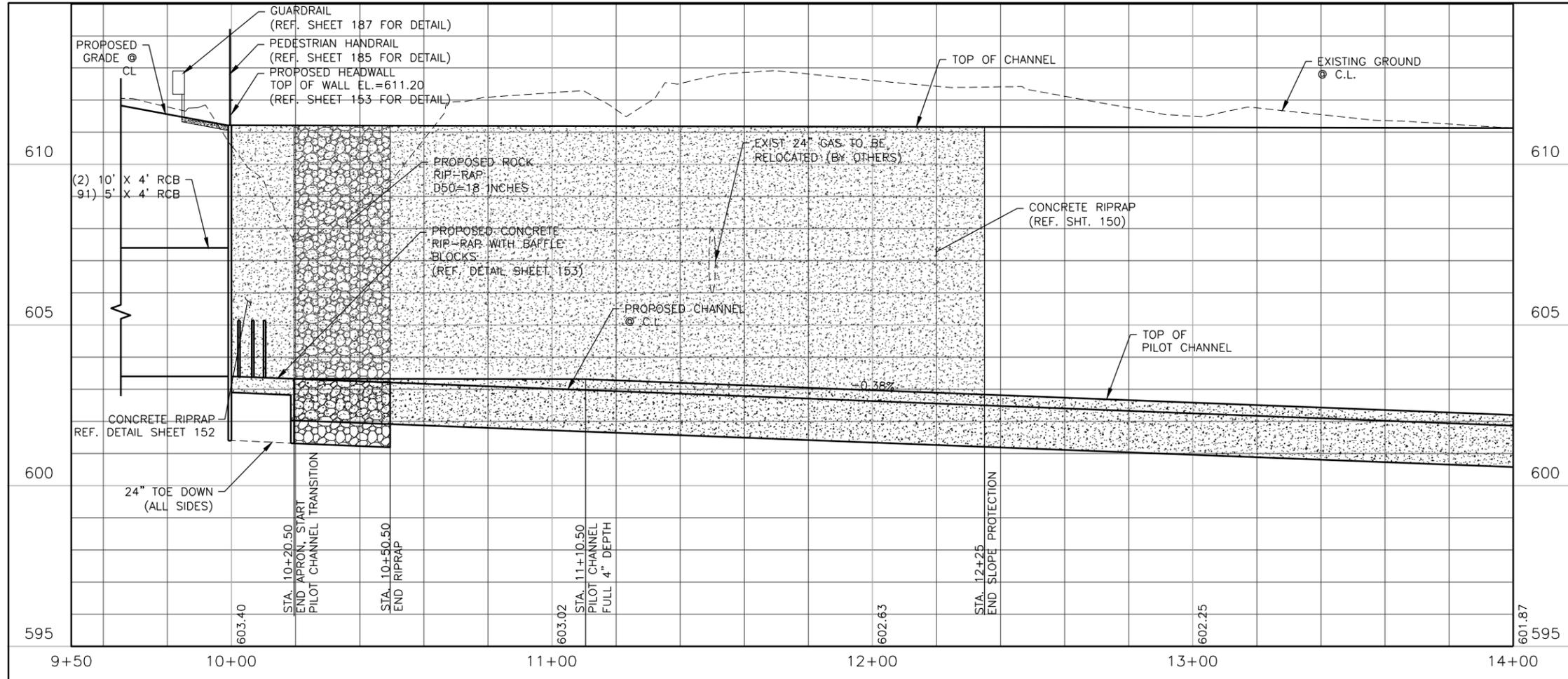
MATCH LINE STA. 14+00

LEGEND

- CHANNEL CENTERLINE
- - - APPARENT RIGHT-OF-WAY
- - - GAS LINE EASEMENT
- SS SAN SEWER LINE
- G GAS LINE
- W WATER LINE
- UT UNDERGROUND TELEPHONE
- OHE OVERHEAD ELECTRIC
- X CHAIN LINK FENCE
- △ BENCH MARK
- ⊕ F.H. FIRE HYDRANT
- ⊕ GAS VALVE
- ⊕ P.P. POWER POLES
- ⊕ SANITARY SEWER MANHOLE
- ⊕ STREET SIGN
- ⊕ TELEPHONE MANHOLE
- ⊕ TREE
- ⊕ WATER METER
- ⊕ WATER VALVE

- NOTES:**
- REFER TO CHANNEL CROSS SECTIONS FOR MORE INFORMATION SHEETS 157 AND 156. REFER TO SHEET 152 FOR TYPICAL CROSS SECTION.
 - THE INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE OF LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OR HER OWN DETERMINATION AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR SITE DEWATERING PER SPECIAL SPECIFICATION ITEM 2500.

DRAINAGE CHANNEL



FREESSE AND NICHOLS, INC.
TEXAS REGISTERED ENGINEERING FIRM F-2144

ISSUE FOR BID

NO.	DATE	REVISION	APPROVED BY
1	7/14/2015	REMOVE ADDITIVE 3	JBL

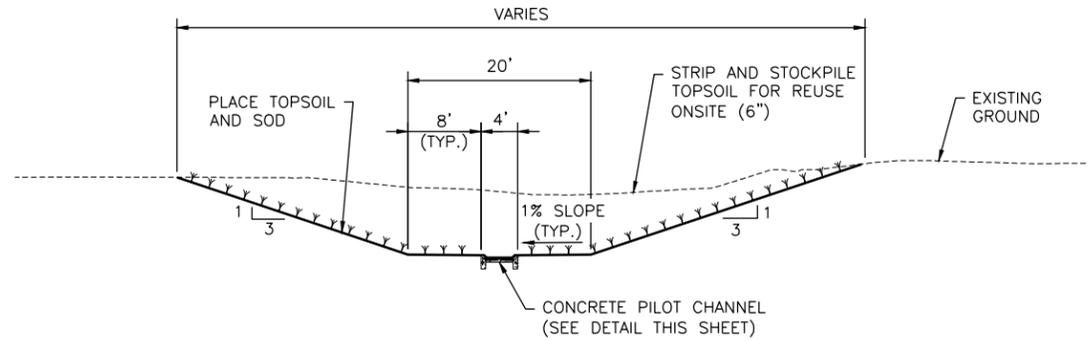
FREESSE NICHOLS
4040 Broadway Street, Suite 600
San Antonio, Texas 78209-6353
PHONE: (210) 298-3800 FAX: (210)298-3801 WWW.FREESSE.COM

CITY OF SAN ANTONIO
DEPARTMENT OF TRANSPORTATION AND CAPITAL IMPROVEMENTS

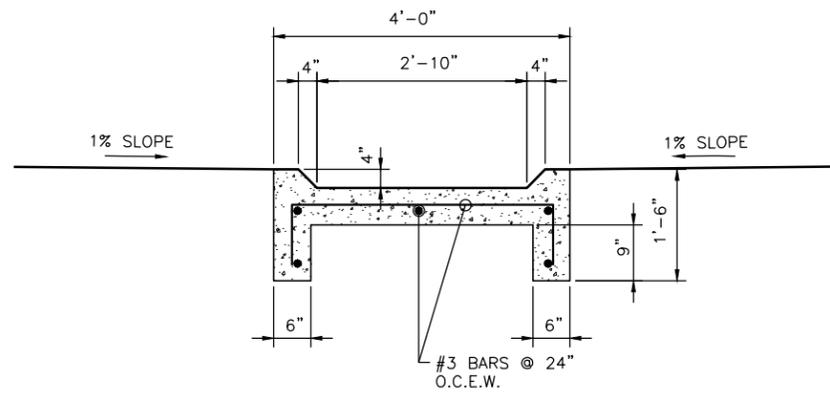
CHANNEL PLAN AND PROFILE
STA. 10+00 TO 14+00

95% SUBMITTAL	PROJECT NO.: SAT13604	DATE: 7/13/2015
DRWN. BY: NO	DSGN. BY: JBL	CHKD. BY: JWS
		SHEET NO148 OF 224

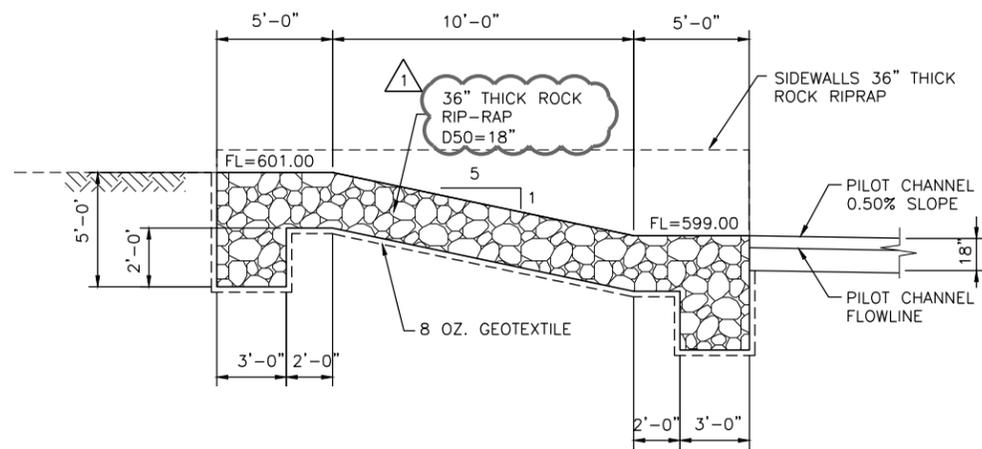
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 User: no
 Date Modified: Jul 13, 15 - 11:29
 Plot Date/Time: Jul 13, 15 - 11:35:36



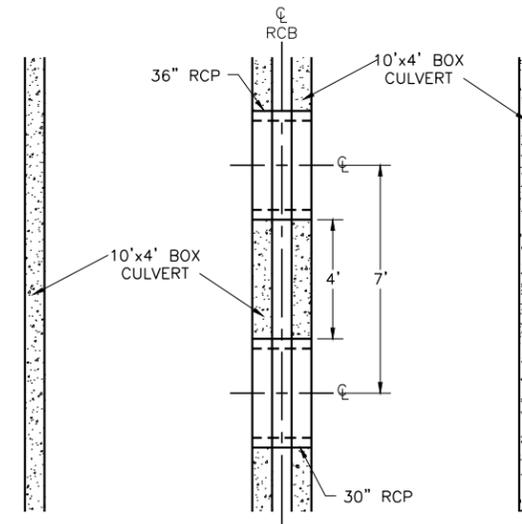
1
155 TYPICAL DRAINAGE CHANNEL SECTION
1"=20'



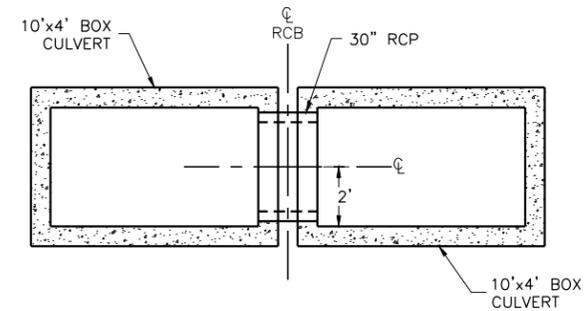
2
155 CONCRETE PILOT CHANNEL DETAIL
SCALE: NOT TO SCALE



3
155 ROCK RIP-RAP DROP STRUCTURE
SCALE: NOT TO SCALE



4
155 CROSS CONNECTION DETAIL
DOUBLE 10'x4' BOX CULVERT (PLAN VIEW)
SCALE: NOT TO SCALE



5
155 CROSS CONNECTION DETAIL
(CROSS SECTION VIEW)
SCALE: NOT TO SCALE

FREESE AND NICHOLS, INC.
TEXAS REGISTERED ENGINEERING FIRM F-2144

ISSUE FOR BID

NO:	DATE	REVISION	APPROVED BY
1	7/14/2015	REVISED RIPRAP NOTE	JBL

4040 Broadway Street, Suite 600
San Antonio, Texas 78209-6353

PHONE: (210) 298-3800 FAX: (210) 298-3801 WWW.FREESE.COM

CITY OF SAN ANTONIO
DEPARTMENT OF TRANSPORTATION AND CAPITAL IMPROVEMENTS

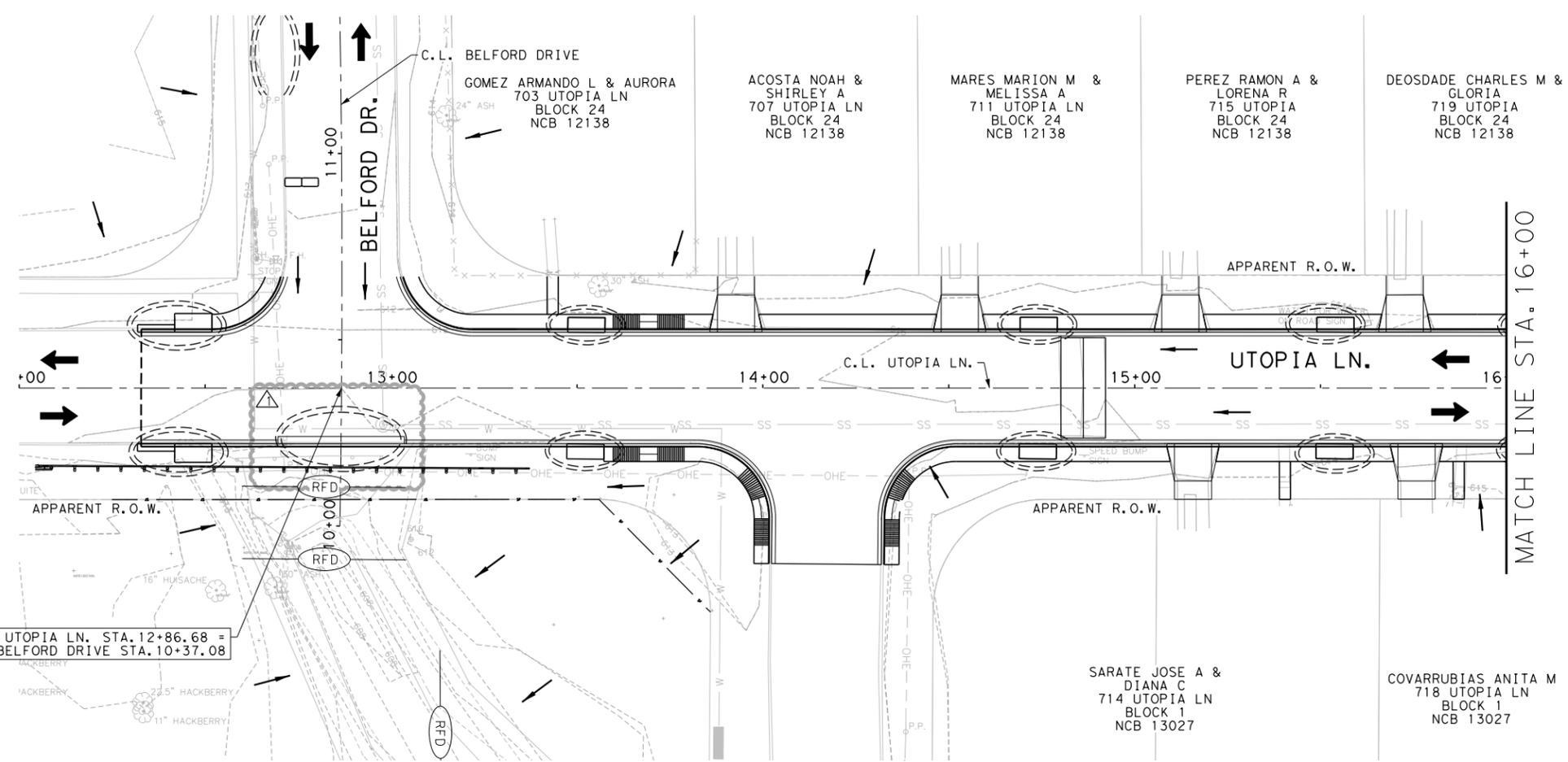
**CHANNEL AND CULVERT
DETAILS**

95% SUBMITTAL	PROJECT NO.: SAT13604	DATE: 7/13/2015
DRWN. BY: NO	DSGN. BY: JBL	CHKD. BY: JWS
		SHEET NO: 155 OF 224

LEGEND

- APPARENT R.O.W.
- CENTERLINE
- ×-×-×-×-×-×- CHAINLINK FENCE
- ◇-◇-◇-◇-◇-◇- IRON FENCE
- XSS--- SANITARY SEWER LINE
- SAW CUT LINE
- SILT FENCE
- TREE PROTECTION
- UT--- UNDERGROUND TELEPHONE
- XW--- WATER LINE
- WOOD FENCE
- ▲ BENCH MARK
- ⊕ F.H. FIRE HYDRANT
- ⊙ GAS VALVE
- ⊙ P.P. POWER POLES
- ⊙ SANITARY SEWER MANHOLE
- ⊙ GRVEL FILTER BAGS
- ← TRAFFIC DIRECTION
- ⊕ STREET SIGN
- ⊕ TELEPHONE MANHOLE
- ⊕ TREE
- ⊕ WATER METER
- ⊕ WATER VALVE
- INLET PROTECTION

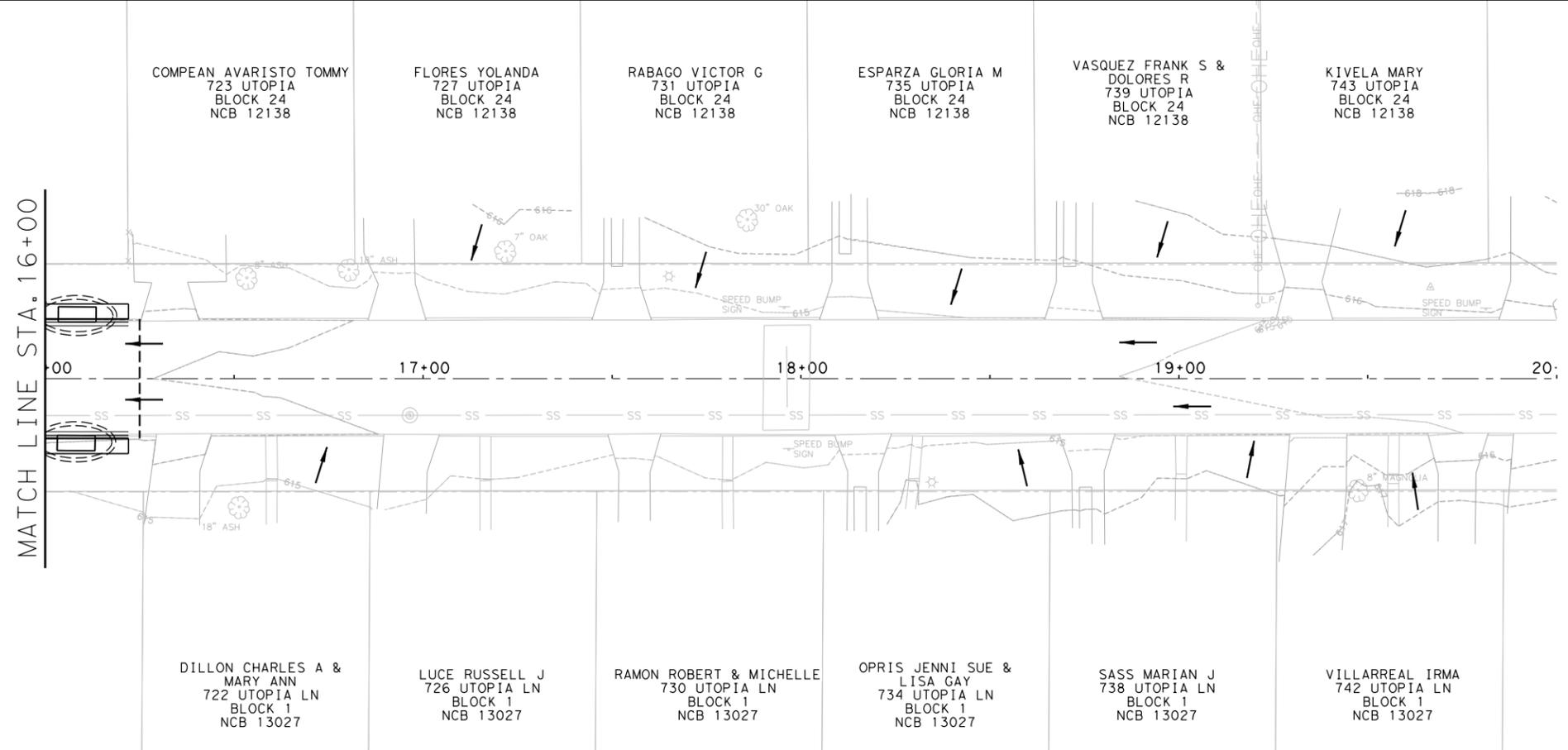
NOTES:
1. ALL UTILITIES SUE LEVEL "C"



UTOPIA LN. STA. 12+86.68 =
BELFORD DRIVE STA. 10+37.08

N

0 10' 20' 40'
SCALE IN FEET



N

0 10' 20' 40'
SCALE IN FEET

FREESSE AND NICHOLS, INC.
TEXAS REGISTERED ENGINEERING FIRM F-2144

ISSUED FOR BID

7/14/2015



NO.	DATE	REVISION	APPROVED BY
1	7/14/2015	ADD INLET PROTECTION	SES



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CITY OF SAN ANTONIO
DEPARTMENT OF TRANSPORTATION AND CAPITAL IMPROVEMENTS

BELFORD AREA DRAINAGE

PHASE 2A SW3P LAYOUT

STA. 13+21.80 TO STA. 13+75.00

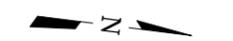
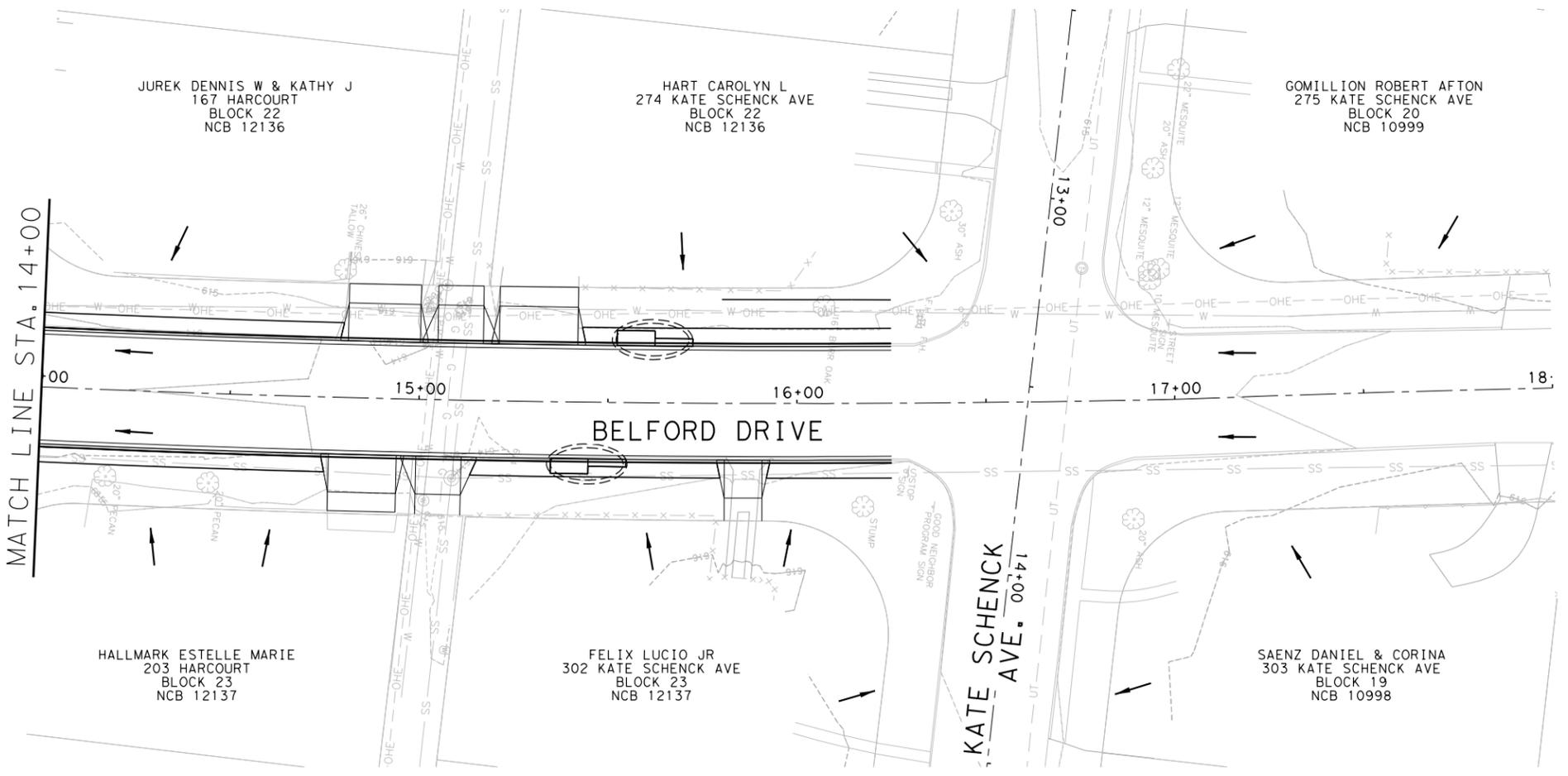
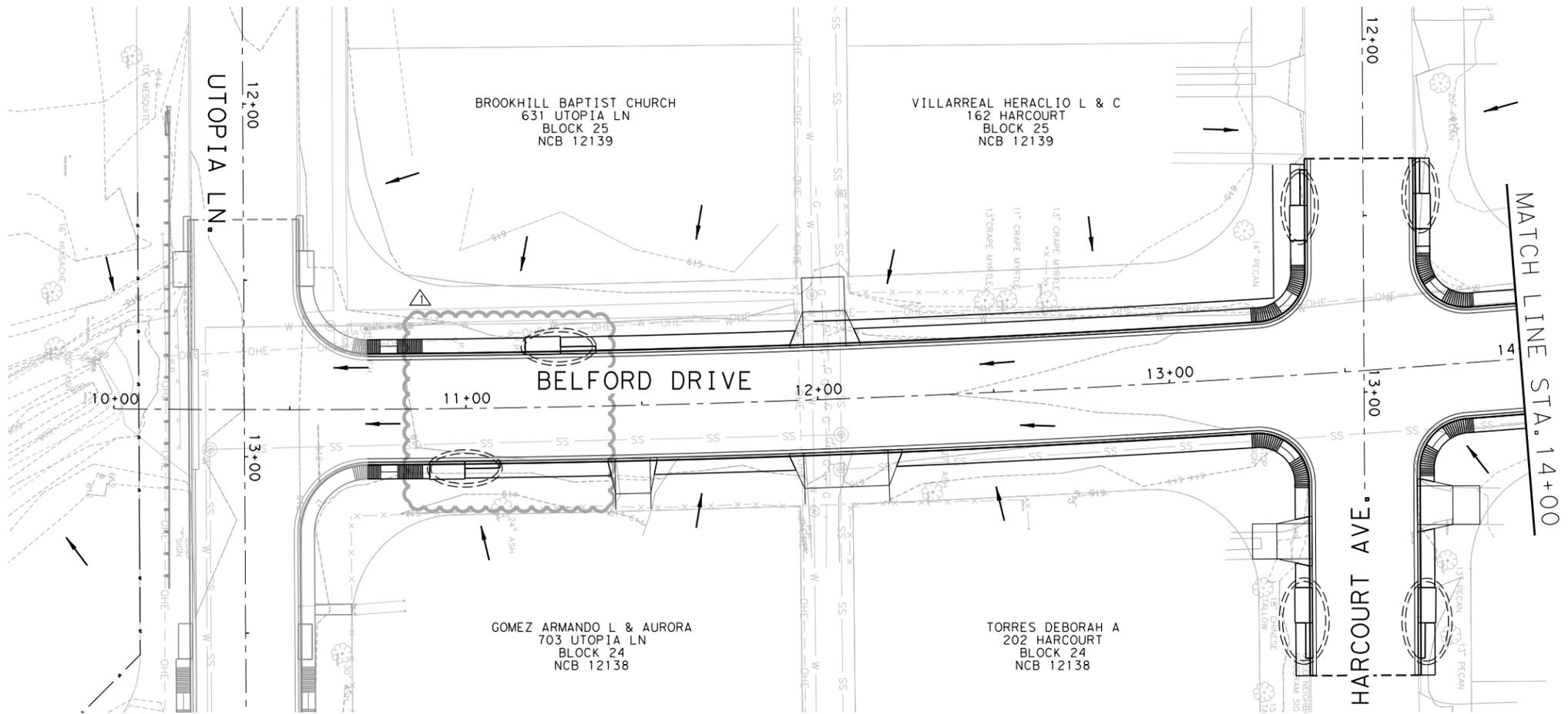
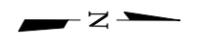
BID SUBMITTAL	PROJECT NO.: 40-00423	DATE: 06/12/2015
DRWN. BY: MJM	DSGN. BY: SES	CHKD. BY: JCC
		SHEET NO.: 196 OF 224

MicroStation V8 Uses: OfficeSan Antonio
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 07/14/2015 11:00:00 AM
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LEGEND

- APPARENT R. O. W.
- - - CENTERLINE
- x-x-x-x-x CHAINLINK FENCE
- ◇-◇-◇-◇ IRON FENCE
- XSS- SANITARY SEWER LINE
- - - SAW CUT LINE
- - - SILT FENCE
- - - TREE PROTECTION
- UT- UNDERGROUND TELEPHONE
- XW- WATER LINE
- WOOD FENCE
- ▲ BENCH MARK
- ⊠ F.H. FIRE HYDRANT
- ⊙ GAS VALVE
- ⊙ P.P. POWER POLES
- ⊙ SANITARY SEWER MANHOLE
- ▭ GRAVEL FILTER BAGS
- ← TRAFFIC DIRECTION
- ⊕ STREET SIGN
- ⊕ TELEPHONE MANHOLE
- ⊕ TREE
- ⊕ WATER METER
- ⊕ WATER VALVE

NOTES:
1. ALL UTILITIES SUE LEVEL "C"



FREESSE AND NICHOLS, INC.
TEXAS REGISTERED ENGINEERING FIRM F-2144

ISSUED FOR BID
7/14/2015

Shaun E. Sivey

NO.	DATE	REVISION	APPROVED BY
1	7/14/2015	ADD INLET PROTECTION	SES

FREESSE & NICHOLS
4040 Broadway Street, Suite 600
San Antonio, Texas 78209-6353
PHONE: (210) 298-3800 FAX: (210) 298-3801 WWW.FREESSE.COM

CITY OF SAN ANTONIO
DEPARTMENT OF TRANSPORTATION AND CAPITAL IMPROVEMENTS

BELFORD AREA DRAINAGE
PHASE 2B SW3P LAYOUT
BELFORD DRIVE

BID SUBMITTAL	PROJECT NO.: 40-00423	DATE: 06/12/2015
DRWN. BY: MJM	DSGN. BY:	CHKD. BY:

SHEET NO.: 197 OF 224

MicroStation V8 Uses: OfficeSan Antonio
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 SA111604.dwg
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 PLOT SCALE: 1/8"=1'-0"
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 USER: ses
 FILE: \\F:\Drawings\CV-TRT-PL-SW3P PHASE 2B01.sht

END OF ADDENDUM No. 1



City of San Antonio
TRANSPORTATION AND CAPITAL IMPROVEMENTS

RECEIPT OF ADDENDUM NUMBER(S) 1 IS HEREBY ACKNOWLEDGED FOR PLANS AND
SPECIFICATIONS FOR CONSTRUCTION OF THE Belford Area Drainage #40-00423

FOR WHICH BIDS WILL BE OPENED ON July 21, 2015 at 2:00pm

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

Company Name: _____

Address: _____

City/State/Zip Code: _____

Date: _____

Signature

Print Name/Title