City of San Antonio
TRANSPORTATION AND CAPITAL IMPROVEMENTS

ADDENDUM NO. 2

PROJECT NAME: **Ray Ellison (Loop 410 to Old Pearsall Road)**

PROJECT NO.: **40-00312**

DATE: 3/19/2015

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

ENGINEER'S ESTIMATE

City Construction	**$16,077,200**
Additive Alternative	$700,900.00
SAWS Water	**$788,932.78**
SAWS Sewer	**$214,946.21**
CPS Energy Gas	$4,116,407.66
Total Construction	***$21,898,386.65***

GEOTECHNICAL REPORT

- Geotechnical Report can be found on the TCI website, Bid & Proposals page.
- http://www.sanantonio.gov/purchasing/biddingcontract/opportunities.aspx

PROJECT MANUAL

- Replace "020 Bid Form" with Addendum No. 2 "020 Bid Form." Revised estimated construction budget.
- Replace "025 Unit Pricing Form" with Addendum No. 2 "025 Unit Pricing Form." Revised various bid items in BASE BID, SAWS WATER JOB NO. 22-5091 AND 12-5104 and SAWS SEWER JOB NO. 22-5591 forms.

PLANS

Ray Ellison Base Bid

- Replace Sheet 2 "Index of Sheets" with Addendum No. 2 Sheet 2 "Index of Sheets." Added Indian Creek Sewer Sheets.
- Replace Sheet 16 "Summary of Quantities Traffic Control" with Addendum No. 2 Sheet 16 "Summary of Quantities Traffic Control" Updated low profile barrier quantity.
- Replace Sheet 17 "Summary of Quantities Traffic Control" with Addendum No. 2 Sheet 17 "Summary of Quantities Traffic Control" Updated low profile barrier quantity.
- Replace Sheet 30 "Traffic Control Plan Narrative and Special Notes" with Addendum No. 2 Sheet 30 "Traffic Control Plan Narrative and Special Notes." Clarified notes about utility construction.
- Replace Sheet 244 "Environmental Permits, Issues and Comments" with Addendum No. 2 Sheet 244 "Environmental Permits, Issues and Comments." Added Nationwide Wide Permit requirements.

SAWS Water Job No. 22/5091

- Replace Sheet 1 of 23" with Addendum No. 2 Sheet 1 of 23. Adjusted quantities.
- Replace Sheet 17 of 23" with Addendum No. 2 Sheet 17 of 23. Added vertical bend.

Indian Creek Plans

- Replace Sheet 6 "Summary of Quantities" sheet with Addendum No. 2 Sheet 6 "Summary of Quantities" sheet. Revised Indian Creek Quantities.
- Replace Sheet 7 "Indian Creek Stormwater Pollution Prevention Plan Layout" sheet with Addendum No. 2 Sheet 7 "Indian Creek Stormwater Pollution Prevention Plan Layout" Revised sanitary sewer J.U.A.
- Replace Sheet 10 "Indian Creek Utility Layout" sheet with Addendum No. 2 Sheet 10 "Indian Creek Utility Layout" Revised J.U.A.
- Replace Sheet 20 "Ray Ellison Culvert Plan & Profile" sheet with Addendum No. 2 Sheet 20 "Ray Ellison Culvert Plan & Profile" Revised
- Replace Sheet 21 "Ray Ellison Channel Plan & Profile" sheet with Addendum No. 2 Sheet 21 "Ray Ellison Channel Plan & Profile" Revised
- Replace Sheet 25 "Ray Ellison Culvert Details" sheet with Addendum No. 2 Sheet 25 "Ray Ellison Culvert Details" Revised

Indian Creek Plans SAWS Water

- Replace Sheet 3 of 6 with Addendum No. 2 Sheet 3 of 6. Adjusted quantities.

Indian Creek Plans SAWS Sewer

- Add Sheet 5 of 20 as part of Addendum No. 2.
- Add Sheet 15 of 20 as part of Addendum No. 2.

City of San Antonio
TRANSPORTATION AND CAPITAL IMPROVEMENTS

CONTRACTOR'S QUESTIONS

1. Are the sheets for Indian Creek that are to be constructed with the Ray Ellison contract in the plans?

   Response: Yes. They are located near the back of the plan set.

2. Are the Indian Creek quantities included in the Ray Ellison Bid Tabs?

   Response: They have been added via this addendum to the base bid tabs.

3. Can we get a copy of the geotechnical report for the project?

   Response: Yes, Geotechnical Report can be found on the TCI website, Bid & Proposals page.

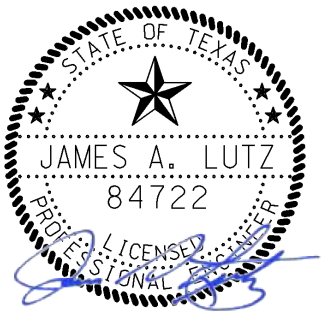
4. Are lane closures allowed per note 1. General B. on sheet 30?

   A. *Response: The referenced note reads as follows:*
      i. *"LANE CLOSURES OTHER THAN THOSE SHOWN ON THE PHASING PLAN WILL NOT BE ALLOWED DURING NON-WORK HOURS. NO EQUIPMENT SHALL BE LEFT IN A POSITION THAT WILL ENDANGER THE TRAVELING PUBLIC."*
      ii. *The intent of this note is to not allow one-lane two-way operations outside of work hours. During work hours one-lane two-way operation is allowed per applicable standards.*

City of San Antonio
TRANSPORTATION AND CAPITAL IMPROVEMENTS

5. Can we use barrier for gas work?

Response: The plans state to complete all SAWS and CPS gas joint bid work in phase one and phase two of the TCP. The intent was to construct the utilities on the north side of the road during phase one to allow the temp pavement to be placed in phase two. In phase 2, the 24" gas main can be placed behind barrier, if the contractor chooses to wait until phase two to begin 24" gas main installation. However portions of the 24"main that are more than 10' off the edge of travel way could be constructed in phase one while other utility work is taking place on the north side of the road. Ultimately, it is up to the contractor to determine the sequencing of utilities to complete the project per plan within schedule. If additional barrier is used to expedite gas or other construction activities, it will be at the contractor's expense.



03/20/2013

CITY OF SAN ANTONIO

Project Name: Ray Ellison Boulevard (410 to Old Pearsall Road) **Date Issued: March 19, 2015**
ID NO.: 40-00312
The estimated construction budget for this contract is $21,898,386.65

020

BID FORM

I. BASE BID

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

_____ $_____

Amount of SAWS Water (12-5091 & 12-5104) Base Bid (Insert Amount in Words and Numbers):

_____ $_____

Amount of SAWS Sewer (12-5591) Base Bid (Insert Amount in Words and Numbers):

_____ $_____

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

_____ $_____

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

_____ **$**_____

II. ALTERNATES

Amount of each Alternates (if applicable) insert in Numbers:

Additive Alternate #1 - Walnut Valley Storm Drain

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

_____ $_____

III. UNIT PRICES

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

_____ _____
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

PROJECT NAME:Ray Ellison Boulevard (410 to Old Pearsall Road)

PROJECT NO. 40-00312

BASE BID

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
				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.					
	100.1			MOBILIZATION	LS	1			
	100.2			INSURANCE AND BOND	LS	1			
	101.1			PREPARING RIGHT-OF-WAY	LS	1			
	103.1			REMOVE CONCRETE CURB	LF	6777			
	103.3			REMOVE SIDEWALKS AND DRIVEWAYS	SF	79366			
	103.4			REMOVE MISCELLANEOUS CONCRETE	SF	1653			
	104.1			STREET EXCAVATION	CY	36690			
	105.1			CHANNEL EXCAVATION	CY	4432			
	106.1			BOX CULVERT EXCAVATION AND BACKFILL	CY	17804			
	107.1			EMBANKMENT (FINAL)(ORD COMP)(TY B)	CY	4420			
	108.1			LIME TREATED SUBGRADE (8" COMPACTED DEPTH)	SY	66203			
	108.2			LIME	TON	176			
	203.1			TACK COAT	GAL	12502			
	205.2			HOT MIX ASPHALTIC PAVEMENT, TYPE B (8" COMP. DEPTH)	SY	64200			
	205.3			HOT MIX ASPHALTIC PAVEMENT, TYPE C (2" COMP. DEPTH)	SY	62525			
	205.4			HOT MIX ASPAHLTIC PAVEMENT, TYPE D (1.5" COMP. DEPTH)	SY	62525			
	209.1			BUS STOP CONCRETE PAD	SY	1782			
	302.1			METAL FOR STRUCTURES	LBS	4665			
	306.1			SRUCTURAL EXCAVATION	CY	284			
	307.1			CONCRETE STRUCTURE (WINGWALL)(PW-1)	CY	127			
	307.2			CONCRETE STRUCTURE (WINGWALL)(SW-0)	CY	7			
	307.3			CONCRETE STRUCTURE (WINGWALL)(FW-0)	CY	3			
	307.4			CONCRETE STRUCTURE (FLUME)	SY	16			
	307.5			CONCRETE STRUCTURE (HEADWALLS OR OUTFALL STRUCTURES)	SY	21			
	308.1			DRILLED SHAFTS (36")	LF	72			
	308.3			DRILLED SHAFTS (30")	LF	12			
	401.101			REINFORCED CONCRETE PIPE (CLASS III)(24" DIA)	LF	2407			
	401.102			REINFORCED CONCRETE PIPE (CLASS III)(30" DIA)	LF	448			
	401.103			REINFORCED CONCRETE PIPE (CLASS III)(36" DIA)	LF	592			

PROJECT NAME:Ray Ellison Boulevard (410 to Old Pearsall Road)
PROJECT NO. 40-00312

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	401.104			REINFORCED CONCRETE PIPE (CLASS III)(42" DIA)	LF	176			
	401.105			REINFORCED CONCRETE PIPE (CLASS IV)(24" DIA)	LF	698			
	401.106			REINFORCED CONCRETE PIPE (CLASS IV)(30" DIA)	LF	108			
	410.2			GRAVEL SUBGRADE FILTER	CY	96			
	500.1			CONCRETE CURB	LF	8187			
	500.6			CONCRETE CURB (FLUSH CURB)	LF	13523			
	502.1			CONCRETE SIDEWALKS	SY	12541			
	502.3			SIDEWALK DRAIN	EA	1			
	502.4			CONCRETE SIDEWALK FOR BUS SHELTER	SY	54			
	503.2			PORTLAND CEMENT CONCRETE DRIVEWAY - COMMERCIAL	SY	2928			
	504.1			CONCRETE MEDIAN	SY	374			
	504.2			CONCRETE DIRECTIONAL ISLAND	SY	164			
	505.1			CONCRETE RIPRAP (5")	SY	1235			
	506.1			CONCRETE RETAINING WALLS - COMBINATION TYPE	CY	119			
	508.1			RELOCATING WIRE FENCE	LF	63			
	512.3			VALVE BOX ADJUSTMENTS	EA	2			
	515.1			TOPSOIL	CY	2418			
	517.1			BRIDGE RAIL (TXDOT C-223)	LS	208			
	520.1			HYDROMULCH	SY	883			
	522.1			SIDEWALK PIPE RAILING	LF	491			
	530.1			BARRICADES, SIGNS, AND TRAFFIC HANDLING	LS	1			
	531			COSA SIGNS	EA	123			
	535.1			4 INCH WIDE YELLOW LINE	LF	18988			
	535.101			COMBINATION THRU/RIGHT WHITE ARROW	EA	2			
	535.11			COMBINATION THRU/LEFT WHITE ARROW	EA	3			
	535.16			STRAIGHT WHITE ARROW BICYCLE FACILITY	EA	28			
	535.17			BICYCLE RIDER SYMBOL	EA	28			
	535.2			4 INCH WIDE WHITE LINE	LF	45973			
	535.4			8 INCH WIDE WHITE LINE	LF	460			
	535.51			WHITE YIELD TRIANGLE (18")	EA	15			
	535.52			MEDIAN NOSE WHITE	EA	5			
	535.53			24 INCH WIDE YELLOW LINE	LF	34			
	535.7			24 INCH WIDE WHITE LINE	LF	1604			
	535.9			LEFT WHITE ARROW	EA	2			

PROJECT NAME:Ray Ellison Boulevard (410 to Old Pearsall Road)
PROJECT NO. 40-00312

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	537.6			TRAFFIC BUTTON (TYPE I-C)	EA	464			
	537.8			TRAFFIC BUTTON (TYPE II A-A)	EA	479			
	540.1			ROCK FILTER DAMS (INSTALL) (TYPE 2)	LF	245			
	540.10			CURB INLET GRAVEL FILTER	LF	270			
	540.11			BAGGED INLET GRAVEL FILTERS	LF	70			
	540.2			ROCK FILTER DAMS (REMOVE) (TYPE 2)	LF	245			
	540.3			ROCK FILTER DAMS (INSTALL) (TYPE 3)	LF	142			
	540.4			ROCK FILTER DAMS (REMOVE) (TYPE 3)	LF	142			
	540.6			CONSTRUCTION EXITS (INSTALL)	SY	900			
	540.7			CONSTRUCTION EXITS (REMOVE)	SY	900			
	540.8			SANDBAGS FOR TEMPORARY SEDIMENT CONTROL FENCE	LF	414			
	540.9			TEMPORARY SEDIMENT CONTROL FENCE	LF	12119			
	550.1			TRENCH EXCAVATION SAFETY PROTECTION	LF	9335			
	551.1			TEMPORARY SPECIAL SHORING	SF	1171			
	554.1			EROSION CONTROL MATTING	SY	493			
	618.1			TRENCH CONDUIT (PVC SHCEDULE 40) (2")	LF	325			
	618.2			TRENCH CONDUIT (PVC SHCEDULE 40) (3")	LF	1010			
	618.5			BORE CONDUIT (PVC SHCEDULE 40) (3")	LF	795			
	620.1			ELECTRICAL CONDUCTORS (NO. 6) (BARE)	LF	15			
	620.2			ELECTRICAL CONDUCTORS (NO. 8) (BARE)	LF	1840			
	620.3			ELECTRICAL CONDUCTORS (NO. 6) (INSULATED)	LF	25			
	624.4			GROUND BOXES TY D (162922)	EA	12			
	628.1			ELECTRICAL SERVICES (TYPE D) (120/240V)	EA	1			
	633.1			BATTERY BACKUP SYSTEM	EA	1			
	680.1			INSTALLATION OF HIGHWAY TRAFFIC SIGNALS [ISOLATED]	EA	3			
	681.1			TEMPORARY TRAFFIC SIGNALS (PER INTERSECTION)	EA	2			
	682.1			VEHICLE SIGNAL SECTION WITH BACK PLATE (3 SEC)	EA	15			
	682.2			VEHICLE SIGNAL SECTION WITH BACK PLATE (4 SEC)	EA	2			
	683.1			LED COUNTDOWN PEDESTRIAN SIGNAL MODULE	EA	16			
	684.1			TRAFFIC SIGNAL CABLES (TYPE A) (14 AWG) (9 CONDUCTOR)	LF	3545			
	684.11			TRAFFIC SIGNAL CABLES (TYPE A) (14 AWG) (7 CONDUCTOR)	LF	840			
	684.12			TRAFFIC SIGNAL CABLES (TYPE A) (14 AWG) (4 CONDUCTOR)	LF	680			
	685.4			SOLAR-POWERED (PHOTOVOLTAIC) SCHOOL ZONE FLASHER ASSEMBLIES	EA	6			
	686.1			INSTALL TRAFFIC SIGNAL POLE ASSEMBLIES (STEEL)(STR TY D)(LUM)	EA	2			

PROJECT NAME:Ray Ellison Boulevard (410 to Old Pearsall Road)
PROJECT NO. 40-00312

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	686.5			INSTALL TRAFFIC SIGNAL POLE ASSEMBLY SMA-80 (32 FT) ILSN	EA	1			
	686.51			INSTALL TRAFFIC SIGNAL POLE ASSEMBLY SMA-80 (36 FT) ILSN	EA	1			
	686.52			INSTALL TRAFFIC SIGNAL POLE ASSEMBLY SMA-80 (40FT) ILSN	EA	2			
	687.1			PED POLE ASSEMBLY (10 FT TALL, GALVANIZED STEEL)	EA	9			
	688.2			PED DETECTORS (2 INCH PUSH BUTTON)	EA	16			
	688.3			AUDIBLE PEDESTRIAN SIGNAL UNITS [2" PUSHBUTTON AND SIGN]	EA	16			
	693.11			INSTALL INTERNALLY LIGHTED STREET NAME SIGN (LED)	EA	4			
	696.12			INSTALL RADAR ADVANCE DETECTION ASSEMBLY (RADD)	EA	4			
	696.13			INSTALL RADAR PRESENCE DETECTION ASSEMBLY (RPDD)	EA	8			
	696.14			INSTALL RADAR COMMUNICATION CABLE	LF	1890			
	801.1			LEVEL I PROTECTIVE FENCING	LF	7500			
	802.2			LEVEL II PRUNING	LS	1			
	1003.1			LANDSCAPE BOULDERS	EA	3			
	5300.2			OFF-DUTY POLICE OFFICERS	HRS	160			
	5999.1			STONE WALL	SF	1916			
	8000.1			CPS POWER POLE BRACING	LS	1			
	9000.101			ENGINEERED SOIL MEDIA	CY	2436			
	9000.102			GRAVEL DRAINAGE LAYER	CY	807			
	9000.103			4" PERFORATED PVC PIPE	LF	10616			
	9000.104			4" SOIL MEDIA BARRIER	CY	274			
	9000.105			LATERAL HYDRAULIC RESTRICTION BARRIER	SY	4357			
	9000.106			BERM	CY	8			
	9000.107			4" PVC PIPE	LF	1337			
	329200.1			ROCK MULCH (W/ WEED BARRIER)	SF	153135			
	329200.2			DRAINFIELD SEED MIX	SF	1114			
	329200.3			BARK MULCH WITH SHORT GRASS MIX	SF	7614			
	329200.4			SOLID SOD BERMUDA	SY	1986			
	329200.5			HYDROSEED	SY	18747			
	329300.1			NATIVE PLANTS 1 GALLON	EA	10548			
	329300.2			NATIVE PLANTS 3 GALLON	EA	1288			
	329300.3			NATIVE PLANTS 5 GALLON	EA	606			
	329300.4			DESERT WILLOW TREES (4" CALIPER)	EA	2			
	329300.5			MONTERREY OAKS (4" CALIPER)	EA	16			
	0168	2001		VEGETATIVE WATERING	MG	324			

PROJECT NAME:Ray Ellison Boulevard (410 to Old Pearsall Road)
PROJECT NO. 40-00312

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	0423	2007		RETAINING WALL (SPREAD FOOTING)	SF	2980			
	0432	2016		RIPRAP (STONE COMMON)(DRY)(8 IN)	CY	13			
	0432	2069		RIPRAP (STONE COMMON)(DRY)(18 IN)	CY	51			
	0432	9999		RIPRAP (STONE COMMON)(DRY)	SY	125			
	0452	2010		REMOV RAIL (PEDESTRIAN)	LF	110			
	0462	2001		CONC BOX CULV (3 FT X 2 FT)	LF	666			
	0462	2003		CONC BOX CULV (4 FT X 2 FT)	LF	416			
	0462	2006		CONC BOX CULV (5 FT X 2 FT)	LF	240			
	0462	2008		CONC BOX CULV (5 FT X 4 FT)	LF	698			
	0462	2010		CONC BOX CULV (6 FT X 3 FT)	LF	195			
	0462	2011		CONC BOX CULV (6 FT X 4 FT)	LF	1968			
	0462	2013		CONC BOX CULV (6 FT X 6 FT)	LF	333			
	0462	2021		CONC BOX CULV (8 FT X 6 FT)	LF	555			
	0462	2068		CONC BOX CULV (10 FT X 3 FT)	LF	390			
	0462	9999		CONC BOX CULV (2 FT X 1 FT)	LF	257			
	0465	2080		INLET (COMPL)(DROP)(TY 3)	EA	1			
	0465	2143		INLET (COMPL)(TRAFFIC)(TY X-1)	EA	35			
	0465	2145		INLET (COMPL)(TRAFFIC)(TY X-3)	EA	1			
	0465	2148		INLET (COMPL)(TRAFFIC)(TY X-6)	EA	1			
	0465	2190		INLET (COMPL)(DROP)(TY W-1)	EA	3			
	0465	2195		INLET (COMPL)(CURB)(TY 1)	EA	16			
	0465	4034		INLET (COMPL)(PSL)(RC)(3FTX3FT)	EA	6			
	0465	4036		INLET (COMPL)(PSL)(RC)(4FTX4FT)	EA	12			
	0465	4037		INLET (COMPL)(PSL)(RC)(4FTX5FT)	EA	2			
	0465	4039		INLET (COMPL)(PSL)(RC)(5FTX6FT)	EA	6			
	0465	4040		INLET (COMPL)(PSL)(RC)(6FTX6FT)	EA	1			
	0465	4041		INLET (COMPL)(PSL)(RC)(8FTX8FT)	EA	8			
	0467	2213		SET (TY II)(30 IN)(RCP)(3:1)(C)	EA	2			
	0467	2224		SET (TY II)(24 IN)(RCP)(4:1)(C)	EA	2			
	0467	9999		SET (TY I) (S=2 FT) (HW=1 FT) (4:1) P	EA	5			
	0496	2005		REMOV STR (WINGWALL)	EA	2			
	0496	2006		REMOV STR (HEADWALL)	EA	4			
	0496	2007		REMOV STR (PIPE)	LF	292			
	0496	2008		REMOV STR (BOX CULVERT)	LF	425			

PROJECT NAME:Ray Ellison Boulevard (410 to Old Pearsall Road)
PROJECT NO. 40-00312

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	0496	2030		REMOVE STR (BOLLARD)	EA	5			
	0496	2289		REMOVE STR (DRAINAGE FLUME)	EA	1			
	0508	2001		CONSTRUCTING DETOURS	STA	106			
	0512	2008		PORT CTB (FUR & INST)(LOW PROF)(TY 1)	LF	9100			
	0512	2009		PORT CTB (FUR & INST)(LOW PROF)(TY 2)	LF	720			
	0512	2026		PORT CTB (MOVE)(LOW PROF)(TY 1)	LF	8480			
	0512	2027		PORT CTB (MOVE)(LOW PROF)(TY 2)	LF	360			
	0512	2044		PORT CTB (REMOVE)(LOW PROF)(TY 1)	LF	9100			
	0512	2045		PORT CTB (REMOVE)(LOW PROF)(TY 2)	LF	720			
	0529	2094		CONC CURB (TY F3)	LF	193			
	0531	2005		CURB RAMPS (TY 1)	EA	7			
	0531	2006		CURB RAMPS (TY 2)	EA	2			
	0531	2007		CURB RAMPS (TY 3)	EA	4			
	0531	2009		CURB RAMPS (TY 6)	EA	6			
	0531	2010		CURB RAMPS (TY 7)	EA	17			
	0531	2014		CURB RAMPS (TY 22)	EA	1			
	0531	2040		CURB RAMPS (TY 5)	EA	2			
	0542	2001		REMOVING METAL BEAM GUARD FENCE	LF	400			
	0542	2002		REMOVING TERMINAL ANCHOR SECTION	EA	6			
	0644	2080		RELOCATE SM RD SN SP & AM(GALV SQ) COSA	EA	1			
	0662	2001		WK ZN PAV MRK NON-REMOV (W) 4" (BRK)	LF	100			
	0662	2004		WK ZN PAV MRK NON-REMOV (W) 4" (SLD)	LF	1103			
	0662	2016		WK ZN PAV MRK NON-REMOV (W) 24" (SLD)	LF	11			
	0662	2032		WK ZN PAV MRK NON-REMOV (Y) 4" (SLD)	LF	1718			
	0662	2061		WK ZN PAV MRK REMOV (TRAF BTN) TY W	LF	940			
	0662	2067		WK ZN PAV MRK REMOV (W) 4" (SLD)	LF	27272			
	0662	2079		WK ZN PAV MRK REMOV (W) 24" (SLD)	LF	420			
	0662	2084		WK ZN PAV MRK REMOV (W) (ARROW)	EA	3			
	0662	2099		WK ZN PAV MRK REMOV (Y) 4" (SLD)	LF	45122			
	0662	2113		WK ZN PAV MRK SHT TERM (TAB) TY W	EA	2290			
	0662	2114		WK ZN PAV MRK SHT TERM (TAB) TY Y	EA	940			
	6007	2001		REMOVING TRAFFIC SIGNALS	EA	2			
	6834	2001		PORTABLE CHANGEABLE MESSAGE SIGN	DAY	154			
							Total Bid Amount:		

CITY OF SAN ANTONIO

025 UNIT PRICING FORM

PROJECT NAME:Ray Ellison Boulevard (410 to Old Pearsall Road)

PROJECT NO. 40-00312

ADDITIVE ALTERNATIVE #1

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
				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.					
	100.1			MOBILIZATION	LS	1			
	100.2			INSURANCE AND BOND	LS	1			
	101.1			PREPARING RIGHT-OF-WAY	LS	1			
	103.1			REMOVE CONCRETE CURB	LF	10			
	103.4			REMOVE MISCELLANEOUS CONCRETE	SF	623			
	106.1			BOX CULVERT EXCAVATION AND BACKFILL	CY	3553			
	205.3			HOT MIX ASPHALTIC PAVEMENT, TYPE C (2" COMP. DEPTH)	SY	2682			
	208.1			SALVAGING, HAULING, AND STOCKPILING RECLAIMABLE ASPHALTIC PAVEMI	SY	2682			
	500.1			CONCRETE CURB	LF	37			
	502.1			CONCRETE SIDEWALKS	SY	21			
	505.1			COMPLETE RIPRAP (6 INCHES THICK)	SY	28			
	506.1			CONCRETE RETAINING WALLS-COMB TYPE	CY	3			
	511.3			REPLACING WITH HOT MIX ASPHALTIC CONCRETE PAVEMENT - 8 INCH COMP.	SY	957			
	512.3			VALVE BOX ADJUSTMENTS	EA	1			
	516.1			BERMUDA SODDING	SY	40			
	522.1			SIDEWALK PIPE RAILING	LF	32			
	530.1			BARRICADES, SIGNS AND TRAFFIC HANDLING	LS	1			
	540.1			ROCK FILTER DAMS (INSTALL TYPE 2)	LF	100			
	540.11			BAGGED INLET GRAVEL FILTERS	LF	50			
	540.2			ROCK FILTER DAMS (REMOVE TYPE 2)	LF	100			
	550.1			TRENCH EXCAVATION SAFETY PROTECTION	LF	846			
	168	2001		VEGETATIVE WATERING	MG	1			
	0452	2010		REMOV RAIL (PEDESTRIAN)	LF	28			
	0462	2007		CONC BOX CULV (5 FT X 3 FT)	LF	692			
	0462	2010		CONC BOX CULV (6 FT X 3 FT)	LF	154			
	0465	2477		INLET (COMP)(DROP)(TY W-2)	EA	1			
	0465	4039		INLET (COMPL)(PSL)(RC)(5FTX6FT)	EA	1			
	0465	4041		INLET (COMPL)(PSL)(RC)(8FTX8FT)	EA	2			
							Total Bid Amount:		

CITY OF SAN ANTONIO

025 UNIT PRICING FORM

PROJECT NAME:Ray Ellison Boulevard (410 to Old Pearsall Road)

PROJECT NO. 40-00312

SAWS WATER JOB NO. 12-5091 AND 12-5104

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.					
	100			MOBILIZATION	LS	1			
	101			PREPARING RIGHT OF WAY	LS	1			
	205			HOT MIX ASPHALTIC PAVEMENT - TYPE D (2" COMPACTED DEPTH)	SY	602			
	206			ASPHALT TREATED BASE (10" COMPACTED DEPTH)	SY	457			
	550			TRENCH EXCAVATION SAFETY PROTECTION	LF	4413			
	818			8" PVC WATERLINE (RESTRAINED)	LF	80			
	818			12" PVC WATERLINE (RESTRAINED)	LF	4067			
	818			16" PVC WATERLINE (RESTRAINED)	LF	146			
	824			RELAY 1" LONG SERVICE	EA	1			
	824			RELAY 1-1/2" SHORT SERVICE	EA	4			
	824			RELAY 2" LONG SERVICE	EA	1			
	826			VALVE BOX ADJUSTMENT	EA	7			
	828			8" GATE VALVES	EA	2			
	828			12" GATE VALVES	EA	13			
	832			16" x 12" TAPPING SLEEVE AND VALVES	EA	2			
	834.1			FIRE HYDRANT	EA	10			
	834.2			TAPPED FIRE HYDRANT	EA	2			
	836			PIPE FITTINGS, ALL SIZES AND TYPES	TON	11.447			
	840			8" WATER TIE-INS	EA	2			
	840			12" WATER TIE-INS	EA	12			
	840			16" WATER TIE-INS	EA	2			
	841			HYDROSTATIC TESTING	EA	8			
	844			2" BLOWOFF, TEMPORARY	EA	16			
	844			2" BLOWOFF, PERMANENT	EA	3			
	846			1" AIR RELEASE ASSEMBLY	EA	1			
	856.2			12" CARRIER PIPE	LF	105			
	856.2			16" CARRIER PIPE	LF	44			
	856.3			CASING OR LINER 24"	LF	105			
	856.3			CASING OR LINER 30"	LF	44			
	3000			REMOVAL, TRANSPORTATION AND DISPOSAL OF AC PIPE	LF	790			
							Total Bid Amount:		

PROJECT NAME:Ray Ellison Boulevard (410 to Old Pearsall Road)
PROJECT NO. 40-00312
SAWS SEWER JOB NO. 12-5591

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.					
	100			MOBILIZATION	LS	1			
	101			PREPARING RIGHT OF WAY	LS	1			
	550			TRENCH EXCAVATION SAFETY PROTECTION	LF	668.58			
	848			10" PVC SANITARY SEWER LINE (0'-6')	LF	256.09			
	848			10" PVC SANITARY SEWER LINE (6'-10')	LF	215.9			
	848			18" PVC SANITARY SEWER LINE (6'-10')	LF	25.61			
	848			18" PVC SANITARY SEWER LINE (10'-14')	LF	170.98			
	851			LOCATE AND ADJUST EXSTING MANHOLE	EA	1			
	852.1			SANITARY SEWER MANHOLE (0'-6')	EA	10			
	852.3			EXTRA DEPTH MANHOLE (>6')	VF	22.89			
	854			SANITARY SEWER LATERALS	LF	53			
	854.1			SANITARY SEWER CLEAN-OUT	EA	2			
	855			RECONSTRUCTION OF EXISTING MANHOLE	EA	4			
	858			CONCRETE ENCASEMENT, CRADLES, SADDLES AND COLLARS	CY	21			
	860			VERTICAL STACKS	VF	4			
	862.1			ABANDONMENT OF 15" SANITARY SEWER MAIN	LF	187			
	862.2			ABANDONMENT OF 18" SANITARY SEWER MAIN	LF	15.5			
	864			BYPASS PUMPING	LS	1			
	866			SEWER MAIN TELEVISION INSPECTION (8"-15")	LF	471.99			
	866			SEWER MAIN TELEVISION INSPECTION (18"-24")	LF	196.59			

Total Bid Amount:

PROJECT NAME:Ray Ellison Boulevard (410 to Old Pearsall Road)
PROJECT NO. 40-00312

CPS ENERGY Job #1798754

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.					

NOTE A: For each of the items below, 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.

ALT. NO.	ITEM NO.	DESC. CODE	S.P. NO	BID ITEM DESCRIPTION	UNIT OF MEASURE	APPROX. QUANTITIES	UNIT BID PRICE	AMOUNT	ITEM SEQUENCE NO.
	1			Install Gas Main or Casing (Distance as Measured Along the Top of Trench).					
				2" Plastic Pipe and Tracer Wire	LF	2538			
				4" Plastic Pipe and Tracer Wire	LF	908			
				6" Plastic Pipe and Tracer Wire	LF	1981			
				8" Plastic Pipe and Tracer Wire	LF	392			
				6" Steel Pipe	LF	68			

				8" Steel Pipe	LF	81			
				24" Steel Pipe	LF	9593			
	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.								
	2			Install Gas Main or Casing by directional drilling. (Includes all costs for installation and restoration cost of bore pits.)					
				4" Plastic Pipe with Tracer Wire	LF	147			
	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			Rerun and Lower Gas Service off New Main (Main to 1 ft. inside Prop. Line) Sizes 1" through 4."					
				Short Side	EA	2			
				Long Side	EA	5			
	4			Rerun and Lower Gas Service off New Main (Main to Meter) Sizes 1" through 4." (Includes installation of new anodeless riser.)					
				Short Side	EA	1			
	5			Replace existing steel service riser on customer premises with new anodeless riser, rebuilding to standard, and tie into existing plastic service line.					
				1" through 4" risers	EA	4			
	6			Concrete/Flatwork	SY	3			
	7			Flowable Fill	CY	257			
	8			Cut and Restore Pavement. To be used as directed by CPS representative.	SY	771			
	9			Install Gas Regulator Station	LS	1			

PROJECT NAME:Ray Ellison Boulevard (410 to Old Pearsall Road)
PROJECT NO. 40-00312

	10			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.					
				Bypass (24" Stopple fittings & 12" Steel Bypass)	EA	2			
	11			Contractor to hire T.D. Williamson (TDW) to provide all labor and necessary fittings for Plugging and Hot tapping operation on Existing 24" steel gas main. Contractor to provide any additional labor necessary to complete hot tapping and plugging.					
				Plug (24" Stopple fitting)	EA	1			

Total Bid Amount:

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

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

Signed: _____ Date: _____

Title: _____

Plotted on: 3/18/2015 4:43:00 PM

Design Filename: P:\81\85\00\Design\Civil\General\818500INDEX01_ADD_02.dgn

SHEET NO.	DESCRIPTION
	GENERAL
1	TITLE SHEET
2	INDEX
3-4	PROJECT LAYOUT
5-7	HORIZONTAL ALIGNMENT DATA
8-9	HORIZONTAL AND VERTICAL SURVEY CONTROL
10-12	TYPICAL SECTIONS
13	GENERAL NOTES
14-15	SUPPLEMENTAL GENERAL NOTES
16-17	SUMMARY OF QUANTITIES - TRAFFIC CONTROL
18-19	SUMMARY OF QUANTITIES - ROADWAY
20-22	SUMMARY OF QUANTITIES - DRAINAGE
23	SUMMARY OF QUANTITIES - PLANTING PLANS & SW3P
24	SUMMARY OF QUANTITIES - TRAFFIC SIGNAL
25	SUMMARY OF QUANTITIES - SIGNING AND PAVEMENT MARKING
26	SUMMARY OF QUANTITIES - ADDITIVE ALTERNATIVE #1 - WALNUT VALLEY
27	DRIVEWAY SUMMARY SHEET
	TRAFFIC CONTROL PLAN
28-29	TRAFFIC CONTROL PLAN OVERALL PHASING LAYOUT
30	TRAFFIC CONTROL PLAN NARRATIVE AND SPECIAL NOTES
31	TRAFFIC CONTROL PLAN DETOUR WALNUT VALLEY
32-33	TRAFFIC CONTROL PLAN - ADDITIONAL SIDEWALK
34-46	TRAFFIC CONTROL PLAN LAYOUT - PHASE II
47	TRAFFIC CONTROL PLAN DETOUR - APPLE VALLEY PHASE III
48-58	TRAFFIC CONTROL PLAN LAYOUT - PHASE III
59-60	TRAFFIC CONTROL PLAN LAYOUT - PHASE IV
61-62	TYPICAL SIDE STREET CONSTRUCTION PHASING
63-66	* BARRICADES AND CONSTRUCTION STANDARDS (COSA)
67-78	* STANDARD BARRICADES & CONSTRUCTION BC-(1-12)-14 (TxDOT)
79	* STANDARD TRAFFIC CONTROL PLAN - WORK ZONE SHORT TERM WZ(STPM)-13 (TxDOT)
80	* STANDARD TRAFFIC CONTROL PLAN - SIGNING UNEVEN LANES WZ(UL)-13 (TxDOT)
81-82	* STANDARD TRAFFIC CONTROL PLAN - TRAFFIC SIGNAL INSTALLATION WZ(BTS 1-2) -13 (TxDOT)
83	* STANDARD TRAFFIC CONTROL PLAN - TCP (1-2) -12 (TxDOT)
84	* STANDARD TRAFFIC CONTROL PLAN - TCP (1-4) -12 (TxDOT)
85	* STANDARD TRAFFIC CONTROL PLAN - TCP (2-1) -12 (TxDOT)
86	* STANDARD TRAFFIC CONTROL PLAN - TCP (2-2) -12 (TxDOT)
87	* STANDARD TRAFFIC CONTROL PLAN - TCP (2-4) -12 (TxDOT)
88	* STANDARD TRAFFIC CONTROL PLAN - TCP (2-5) -12 (TxDOT)
89-90	* STANDARD LOW PROFILE CONCRETE BARRIER - LPCB (1-2)-13 (TxDOT)
	ROADWAY
91-110	ROADWAY PLAN AND PROFILE SHEETS
111-126	SIDEWALK PLAN AND PROFILE SHEETS
127	INTERSECTION LAYOUT WALNUT VALLEY ST
128-129	INTERSECTION LAYOUT APPLE VALLEY DR
130-131	INTERSECTION LAYOUT BROOK VALLEY DR
132-133	INTERSECTION LAYOUT FIVE PALMS DR
134	INTERSECTION LAYOUT VISTA POINT
135-137	MISCELLANEOUS ROADWAY DETAILS
138	RETAINING WALL 1 LAYOUT
139	RETAINING WALL 2 LAYOUT
140	* CONCRETE BUS STOP PAD
141-144	* PEDESTRIAN FACILITIES CURB RAMPS PED-12A (TxDOT)
145	* MISCELLANEOUS CONSTRUCTION STANDARDS I (COSA)
146	* MISCELLANEOUS CONSTRUCTION STANDARDS II (COSA)
147	* ELEVATED SIDEWALK & RETARD STANDARDS (COSA)
148	* CHAIN LINK FENCE CLF-10 (TxDOT)
149	* BARBED WIRE AND WOVEN WIRE FENCE (WOOD POSTS) WF(1)-10 (TxDOT)
150	* RETAINING WALL MISCELLANEOUS DETAILS RW-2 (TxDOT)
151	* RETAINING WALLS RW-1 (L)B (TxDOT)
152	* RETAINING WALLS RW-1 (L)C (TxDOT)
	DRAINAGE
153-154	CULVERT DRAINAGE AREA MAP PRE-DEVELOPMENT
155-156	CULVERT DRAINAGE AREA MAP POST-DEVELOPMENT
157	CULVERT DRAINAGE AREA CALCULATIONS
158-160	CULVERT CALCULATIONS SHEETS
161-163	CULVERT LAYOUT SHEETS
164-165	DRAINAGE AREA MAP
166-170	DRAINAGE COMPUTATIONS
171	DITCH HYDRAULIC DATA SHEET
172	LID TYPICAL SECTIONS
173-192	STORM DRAIN PLAN AND PROFILE
193-199	STORM DRAIN LATERALS
200	DRAINAGE DETAILS
201-203	BASIN DETAILS
204	* BOX CULVERT SUPPLEMENT (BCS) (TxDOT)
205	* PIPE BEDDING & MISCELLANEOUS DRAINAGE DETAILS (COSA)
206	* TYPICAL CONCRETE RIP-RAP STANDARDS (COSA)
207	* CONCRETE WINGWALLS (PW) (TxDOT)
208	* CONCRETE WINGWALLS (FW-0) (TxDOT)
209	* CONCRETE WINGWALLS (SW-0) (TxDOT)
210	* EXTENDED CURB DETAILS (ECD) (TxDOT)
211	* SINGLE BOX CULVERTS CAST-IN -PLACE MISCELLANEOUS DETAILS SCC-MD (TxDOT)
212-213	* SINGLE BOX CULVERTS CAST-IN-PLACE 0' TO 30' FILL SCC-10 (TxDOT)
214	* BOX CULVERTS PRECAST MISCELLANEOUS DETAILS SCP-MD (TxDOT)
215	* SINGLE BOX CULVERTS PRECAST 3'-0" SPAN SCP-3 (TxDOT)
216	* SINGLE BOX CULVERTS PRECAST 4'-0" SPAN SCP-4 (TxDOT)
217	* SINGLE BOX CULVERTS PRECAST 5'-0" SPAN SCP-5 (TxDOT)
218	* SINGLE BOX CULVERTS PRECAST 6'-0" SPAN SCP-6 (TxDOT)

SHEET NO.	DESCRIPTION
	DRAINAGE CONTINUED
219	* SINGLE BOX CULVERTS PRECAST 10'-0" SPAN SCP-10 (TxDOT)
220-221	* SAFETY END TREATMENT FOR BOX CULVERTS (TxDOT)
222-223	* SAFETY END TREATMENT FOR PIPE CULVERTS (TxDOT)
224-226	* CURB INLET TYPE I & II WITH INLET EXTENSION I/II-E (TxDOT) (SAT DST STD)
227	* TRAFFIC INLET TYPE X-1 THRU X-6 TRAFFIC GRATE TYPE 5 (TxDOT)(SAT DST STD)
228	* DROP INLET TYPE W-1 (TxDOT)(SAT DST STD)
229	* DROP INLET TYPE W-2 THRU W-5 (TxDOT)(SAT DST STD)
230	* TYPE 3 & TYPE 4 GRATE (TxDOT)(SAT DST STD)
231-232	* PRECAST BASE (TYPE PB) (TxDOT)
233	* PRECAST SOLID LID (TYPE PSL) (TxDOT)
	LANDSCAPING
234-235	TREE PRESERVATION INVENTORY
236-240	TREE PRESERVATION PLAN SHEETS
241	ENLARGED TREE PRESERVATION PLAN SHEET
242	TREE PRESERVATION DETAILS
L1.1-L1.20.B	PLANTING PLANS SHEETS (1 - 51)
L2.0-L2.2	PLANTING DETAILS AND PLANT LISTS
L3.0-L4.0	OVERALL IRRIGATION PLAN
	ENVIRONMENTAL
243	STORM WATER POLLUTION PREVENTION PLAN GENERAL NOTES
243A-243B	STORM WATER POLLUTION PREVENTION PLAN NARRATIVE
244	* ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS (TXDOT)
245-254	STORM WATER POLLUTION PREVENTION PLAN LAYOUT - PH I AND II
255-264	STORM WATER POLLUTION PREVENTION PLAN LAYOUT - PH III AND IV
265-266	* TEMPORARY EROSION, SEDIMENT, & WATER POLLUTION CONTROL MEASURES STANDARDS (COSA)
	TRAFFIC
267-281	SIGNING AND PAVEMENT MARKINGS
282	SIGNING AND PAVEMENT MARKINGS MAST ARM ELEVATION VIEW
283	SIGNING AND PAVEMENT MARKINGS CONDUCTOR SCHEDULE
284-287	* STANDARD PAVEMENT MARKINGS - SHEET 4, 5, 8, 9 OF 16 (COSA)
288-290	* TYPICAL STANDARD PAVEMENT MARKINGS - PM(1-3)-12 (TxDOT)
291	* BICYCLE LANE PAVEMENT MARKINGS (TxDOT)
292	* GENERAL NOTES AND GROUND SIGN MOUNTING - SHEET 1 OF 4 (COSA)
293	* D3 STREET NAME SIGN AND SIGN MOUNTING - SHEET 2 OF 4 (COSA)
294	* GROUND MOUNTED SIGN SIZES - SHEET 3 OF 4 (COSA)
295-296	* TYPICAL SIGN REQUIREMENTS - TSR (3-4)13 (TxDOT)
297-300	* SIGN MOUNTING DETAILS - SMD(GEN, SLIP 1-3) (TxDOT)
301	TRAFFIC SIGNAL - IH 410 NB FRTG RD
302	TRAFFIC SIGNAL - APPLE VALLEY DRIVE
303-305	TRAFFIC SIGNAL - FIVE PALMS
306-308	TRAFFIC SIGNAL - OLD PEARSALL RD
309-310	* TRAFFIC SIGNAL SUPPORT STRUCTURES - STRAIN POLE ASSEMBLIES (TxDOT)
311-312	* TRAFFIC SIGNAL SUPPORT STRUCTURES - SINGLE MAST ARM ASSEMBLIES (TxDOT)
313	* MAST ARM CONNECTIONS (TxDOT)
314	* MAST ARM CONNECTIONS - ILSN (TxDOT)
314A-314C	* ILSN SIGN DETAILS (COSA)
315	* MAST ARM DAMPING PLATE (TXDOT)
316	* TRAFFIC SIGNAL CONTROLLER CABINET BASE AND PAD (TXDOT)
317	* TRAFFIC SIGNAL POLE FOUNDATION (TxDOT)
318	* STANDARD ASSEMBLY DRAWINGS FOR LUMINAIRE SUPPORT STRUCTURES (TxDOT)
319	* CLAMP ON FITTING ASSEMBLY FOR LUMINAIRE MAST ARM (TxDOT)
320-328	* ELECTRICAL DETAILS (1-7, 10, 13) (TxDOT)
	UTILITIES
329-349	UTILITY LAYOUT SHEETS
	CROSS SECTIONS
350-409	CROSS SECTIONS
	SAWS SEWER JOB NO. 12-5591
1	COVER
2	SEWER GENERAL NOTES
3-8	OVERALL LAYOUT AND MANHOLE ADJUSTMENTS SHEETS
9	10" SEWER MAIN ADJUSTMENT PLAN AND PROFILE SHEET
	SAWS WATER JOB NO. 12-5091
1	COVER
2	WATER GENERAL NOTES
3-8	OVERALL LAYOUT AND VALVE/HYDRANT/WATER SERVICE ADJUSTMENTS SHEETS
9-22	RAY ELLISON 12-INCH AND 16-INCH WATER MAIN ADJUSTMENT PLAN SHEETS
23	SPECIAL DETAILS
	CPS GAS MAIN
1	CPS COVER SHEET
2	TRENCH DETAILS
3-10	LOCATION DATA TABLE
11-30	PLAN SHEETS
31	DISTRICT REGULATOR STATION DETAILS
	ADDITIVE ALTERNATIVE #1
1	WALNUT VALLEY DRAIN AREA MAP AND COMPUTATIONS
2	WALNUT VALLEY TRAFFIC CONTROL PLAN
3-4	WALNUT VALLEY STORM DRAIN LAYOUTS
5	WALNUT VALLEY DRAINAGE DETAILS
6	SW3P LAYOUT - ADDITIVE ALTERNATIVE #1
	INDIAN CREEK PLANS
1-40	INDIAN CREEK DRAINAGE IMPROVEMENTS PLANS (EXCERPT FOR RAY ELLISON)
	INDIAN CREEK PLANS - SAWS WATER JOB NO. 12-5104
1	OVERALL PROJECT LAYOUT
2	WATER LINE ADJUSTMENTS
	INDIAN CREEK PLANS - SAWS SEWER JOB NO. 12-5604
1-2	SEWER LINE ADJUSTMENTS

ADDENDUM NO. 02

THE STANDARD SHEETS SPECIFICALLY SHOWN WITH PRECEDING (*), HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED
PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. 3/18/2015
DATE

PAPE-DAWSON ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TEXAS 78213 | PHONE: 210.375.9000 FAX: 210.375.9010

TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

RAY ELLISON BLVD
LOOP 410 TO OLD PEARSALL RD
INDEX OF SHEETS

100 % SUBMITTAL	PROJECT NO.: 8185-00		DATE: 3/18/2015
DRWN. BY: HM	DSGN. BY: HM	CHKD. BY: DT	SHEET NO.: 2

ITEM		103.1	401.101 ✳	401.102 ✳	412.1 ✳	500.1	502.1	502.3 ✳	530.1	551.1	681.1
SHT NO	DESCRIPTION	REMOVE CONCRETE CURB	REINFORCED CONCRETE PIPE (CLASS III) (24" DIA)	REINFORCED CONCRETE PIPE (CLASS III) (30" DIA)	CEMENT STABILIZED SAND	CONCRETE CURB	CONCRETE SIDEWALKS	SIDEWALK DRAIN	BARRICADES, SIGNS, AND TRAFFIC HANDLING	TEMPORARY SPECIAL SHORING	TEMPORARY TRAFFIC SIGNALS (PER INTERSECTION)
		LF	LF	LF	CY	LF	SY	EA	LS	SF	EA
30	TRAFFIC CONTROL PLAN - PH I										
32	TRAFFIC CONTROL PLAN - HAZEL VALLEY AT WALNUT VALLE	25				25	69				
33	TRAFFIC CONTROL PLAN - HAZEL VALLEY AT APPLE VALLEY						32				
34	TRAFFIC CONTROL PLAN - PH II - 1 OF 13								1		
35	TRAFFIC CONTROL PLAN - PH II - 2 OF 13										
36	TRAFFIC CONTROL PLAN - PH II - 3 OF 13		28								
37	TRAFFIC CONTROL PLAN - PH II - 4 OF 13										
38	TRAFFIC CONTROL PLAN - PH II - 5 OF 13										
39	TRAFFIC CONTROL PLAN - PH II - 6 OF 13					418 ✳		1			
40	TRAFFIC CONTROL PLAN - PH II - 7 OF 13										
41	TRAFFIC CONTROL PLAN - PH II - 8 OF 13										
42	TRAFFIC CONTROL PLAN - PH II - 9 OF 13		72		1	350 ✳					1
43	TRAFFIC CONTROL PLAN - PH II - 10 OF 13										
44	TRAFFIC CONTROL PLAN - PH II - 11 OF 13									325	
45	TRAFFIC CONTROL PLAN - PH II - 12 OF 13			45						423	
46	TRAFFIC CONTROL PLAN - PH II - 13 OF 13										1
48	TRAFFIC CONTROL PLAN - PH III - 1 OF 11										
49	TRAFFIC CONTROL PLAN - PH III - 2 OF 11										
50	TRAFFIC CONTROL PLAN - PH III - 3 OF 11										
51	TRAFFIC CONTROL PLAN - PH III - 4 OF 11										
52	TRAFFIC CONTROL PLAN - PH III - 5 OF 11										
53	TRAFFIC CONTROL PLAN - PH III - 6 OF 11										
54	TRAFFIC CONTROL PLAN - PH III - 7 OF 11					365 ✳					
55	TRAFFIC CONTROL PLAN - PH III - 8 OF 11										
56	TRAFFIC CONTROL PLAN - PH III - 9 OF 11										
57	TRAFFIC CONTROL PLAN - PH III - 10 OF 11									423	
58	TRAFFIC CONTROL PLAN - PH III - 11 OF 11										
59	TRAFFIC CONTROL PLAN - PH IV - 1 OF 2										
60	TRAFFIC CONTROL PLAN - PH IV - 2 OF 2										
	TOTALS	25	100	45	1	1158	101	1	1	1171	2

ITEM		5300.2	329200.4	0168-2001	0467-2211 ✳	0467-2213 ✳	0508-2001	0512-2008	0512-2009	0512-2026	0512-2027
SHT NO	DESCRIPTION	OFF-DUTY POLICE OFFICERS	SOLID SOD BERMUDA	VEGETATIVE WATERING	SET (TY II) (24 IN) (RCP) (3:1) (C)	SET (TY II) (30 IN) (RCP) (3:1) (C)	CONSTRUCTING DETOURS	PORT CTB (FUR & INST) (LOW PROF) (TY 1)	PORT CTB (FUR & INST) (LOW PROF) (TY 2)	PORT CTB (MOVE) (LOW PROF) (TY 1)	PORT CTB (MOVE) (LOW PROF) (TY 2)
		HRS	SY	MG	EA	EA	STA	LF	LF	LF	LF
30	TRAFFIC CONTROL PLAN - PH I							800	120		
32	TRAFFIC CONTROL PLAN - HAZEL VALLEY AT WALNUT VALLEY		54	1							
33	TRAFFIC CONTROL PLAN - HAZEL VALLEY AT APPLE VALLEY		23	1							
34	TRAFFIC CONTROL PLAN - PH II - 1 OF 13	160									
35	TRAFFIC CONTROL PLAN - PH II - 2 OF 13						9	610	60		
36	TRAFFIC CONTROL PLAN - PH II - 3 OF 13				2		10	1000			
37	TRAFFIC CONTROL PLAN - PH II - 4 OF 13						10	830	60		
38	TRAFFIC CONTROL PLAN - PH II - 5 OF 13						5	190	60		40
39	TRAFFIC CONTROL PLAN - PH II - 6 OF 13						10			400	40
40	TRAFFIC CONTROL PLAN - PH II - 7 OF 13						10	600		400	
41	TRAFFIC CONTROL PLAN - PH II - 8 OF 13						5	300	60		40
42	TRAFFIC CONTROL PLAN - PH II - 9 OF 13						9	550	60		
43	TRAFFIC CONTROL PLAN - PH II - 10 OF 13						10	1000			
44	TRAFFIC CONTROL PLAN - PH II - 11 OF 13						10	690	120		
45	TRAFFIC CONTROL PLAN - PH II - 12 OF 13					3	10	740	80		
46	TRAFFIC CONTROL PLAN - PH II - 13 OF 13						8	750	20		
48	TRAFFIC CONTROL PLAN - PH III - 1 OF 11							160		610	20
49	TRAFFIC CONTROL PLAN - PH III - 2 OF 11									1000	
50	TRAFFIC CONTROL PLAN - PH III - 3 OF 11							40		830	40
51	TRAFFIC CONTROL PLAN - PH III - 4 OF 11							280		590	40
52	TRAFFIC CONTROL PLAN - PH III - 5 OF 11								80	790	
53	TRAFFIC CONTROL PLAN - PH III - 6 OF 11							100		300	40
54	TRAFFIC CONTROL PLAN - PH III - 7 OF 11									380	40
55	TRAFFIC CONTROL PLAN - PH III - 8 OF 11									1000	
56	TRAFFIC CONTROL PLAN - PH III - 9 OF 11							310		690	
57	TRAFFIC CONTROL PLAN - PH III - 10 OF 11							150		740	40
58	TRAFFIC CONTROL PLAN - PH III - 11 OF 11									750	20
59	TRAFFIC CONTROL PLAN - PH IV - 1 OF 2										
60	TRAFFIC CONTROL PLAN - PH IV - 2 OF 2										
	TOTALS	160	77	2	2	3	106	9100	720	8480	360

✳ FOR CONTRACTOR'S INFORMATION ONLY.
SUBSIDIARY TO ITEM 508.

ADDENDUM NO. 02

PAPE-DAWSON ENGINEERS
2000 NW LOOP 410 | SAN ANTONIO, TEXAS 78213 | PHONE: 210.375.9000 FAX: 210.375.9010
TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

RAY ELLISON BLVD
LOOP 410 TO OLD PEARSALL RD
SUMMARY OF QUANTITIES
TRAFFIC CONTROL

SHEET 1 OF 2

100 % SUBMITTAL	PROJECT NO.: 8185-00		DATE: 3/18/2015
DRWN. BY: BD	DSGN. BY: HM	CHKD. BY: DT	SHEET NO.: 16

	ITEM	0512-2044	0512-2045	0531-2007	0556-2016 ✳	0644-2080	0662-2001	0662-2004	0662-2016	0662-2032	0662-2061
	DESCRIPTION	PORT CTB (REMOVE)(LOW PROF)(TY 1)	PORT CTB (REMOVE)(LOW PROF)(TY 2)	CURB RAMPS (TY 3)	PIPE UNDERDRAINS (TYPE 8) (8")	RELOCATE SM RD SN SP & AM(GALV SQ)COSA	WK ZN PAV MRK NON-REMOV (W) 4" (BRK)	WK ZN PAV MRK NON-REMOV (W) 4" (SLD)	WK ZN PAV MRK NON-REMOV (W) 24" (SLD)	WK ZN PAV MRK NON-REMOV (Y) 4" (SLD)	WK ZN PAV MRK REMOV (TRAF BTN) TY W
SHT NO		LF	LF	EA	LF	EA	LF	LF	LF	LF	LF
30	TRAFFIC CONTROL PLAN - PH I										
32	TRAFFIC CONTROL PLAN - HAZEL VALLEY AT WALNUT VALLEY			1							
33	TRAFFIC CONTROL PLAN - HAZEL VALLEY AT APPLE VALLEY					1					
34	TRAFFIC CONTROL PLAN - PH II - 1 OF 13										150
35	TRAFFIC CONTROL PLAN - PH II - 2 OF 13										790
36	TRAFFIC CONTROL PLAN - PH II - 3 OF 13										
37	TRAFFIC CONTROL PLAN - PH II - 4 OF 13										
38	TRAFFIC CONTROL PLAN - PH II - 5 OF 13										
39	TRAFFIC CONTROL PLAN - PH II - 6 OF 13				18						
40	TRAFFIC CONTROL PLAN - PH II - 7 OF 13										
41	TRAFFIC CONTROL PLAN - PH II - 8 OF 13										
42	TRAFFIC CONTROL PLAN - PH II - 9 OF 13										
43	TRAFFIC CONTROL PLAN - PH II - 10 OF 13										
44	TRAFFIC CONTROL PLAN - PH II - 11 OF 13										
45	TRAFFIC CONTROL PLAN - PH II - 12 OF 13										
46	TRAFFIC CONTROL PLAN - PH II - 13 OF 13										
48	TRAFFIC CONTROL PLAN - PH III - 1 OF 11	770	60								
49	TRAFFIC CONTROL PLAN - PH III - 2 OF 11	1000									
50	TRAFFIC CONTROL PLAN - PH III - 3 OF 11	870	60								
51	TRAFFIC CONTROL PLAN - PH III - 4 OF 11	870	140								
52	TRAFFIC CONTROL PLAN - PH III - 5 OF 11	1000	80								
53	TRAFFIC CONTROL PLAN - PH III - 6 OF 11	400	100								
54	TRAFFIC CONTROL PLAN - PH III - 7 OF 11	550	60								
55	TRAFFIC CONTROL PLAN - PH III - 8 OF 11	1000									
56	TRAFFIC CONTROL PLAN - PH III - 9 OF 11	1000	120								
57	TRAFFIC CONTROL PLAN - PH III - 10 OF 11	890	80								
58	TRAFFIC CONTROL PLAN - PH III - 11 OF 11	750	20								
59	TRAFFIC CONTROL PLAN - PH IV - 1 OF 2						80	950	11	1565	
60	TRAFFIC CONTROL PLAN - PH IV - 2 OF 2						20	153		153	
	TOTALS	9100	720	1	18	1	100	1103	11	1718	940

	ITEM	0662-2067	0662-2079	0662-2084	0662-2099	0662-2113	0662-2114	3268-2008 ✳	6834-2001
	DESCRIPTION	WK ZN PAV MRK REMOV (W) 4" (SLD)	WK ZN PAV MRK REMOV (W) 24" (SLD)	WK ZN PAV MRK REMOV (W) (ARROW)	WK ZN PAV MRK REMOV (Y) 4" (SLD)	WK ZN PAV MRK SHT TERM (TAB) TY W	WK ZN PAV MRK SHT TERM (TAB) TY Y	D - GR HMA TY - B PG64 - 22	PORTABLE CHANGEABLE MESSAGE SIGN
SHT NO		LF	LF	EA	LF	EA	EA	TON	DAY
30	TRAFFIC CONTROL PLAN - PH I								
32	TRAFFIC CONTROL PLAN - HAZEL VALLEY AT WALNUT VALLEY								
33	TRAFFIC CONTROL PLAN - HAZEL VALLEY AT APPLE VALLEY								
34	TRAFFIC CONTROL PLAN - PH II - 1 OF 13			3					
35	TRAFFIC CONTROL PLAN - PH II - 2 OF 13	1225			1570			390	154
36	TRAFFIC CONTROL PLAN - PH II - 3 OF 13	1995			1995			543	
37	TRAFFIC CONTROL PLAN - PH II - 4 OF 13	1945			1900			543	
38	TRAFFIC CONTROL PLAN - PH II - 5 OF 13	1000			1000			242	
39	TRAFFIC CONTROL PLAN - PH II - 6 OF 13	1240	120		3520			343	
40	TRAFFIC CONTROL PLAN - PH II - 7 OF 13	1940	20		1880			588	
41	TRAFFIC CONTROL PLAN - PH II - 8 OF 13	940			875			354	
42	TRAFFIC CONTROL PLAN - PH II - 9 OF 13	1180	140		3710			299	
43	TRAFFIC CONTROL PLAN - PH II - 10 OF 13	2000			2000			309	
44	TRAFFIC CONTROL PLAN - PH II - 11 OF 13	1020			2000			8	
45	TRAFFIC CONTROL PLAN - PH II - 12 OF 13	1775			1875			168	
46	TRAFFIC CONTROL PLAN - PH II - 13 OF 13	1560	11		1550			293	
48	TRAFFIC CONTROL PLAN - PH III - 1 OF 11	790	11		1555				
49	TRAFFIC CONTROL PLAN - PH III - 2 OF 11	1002			2010				
50	TRAFFIC CONTROL PLAN - PH III - 3 OF 11	915			2010				
51	TRAFFIC CONTROL PLAN - PH III - 4 OF 11	910	42		1820				
52	TRAFFIC CONTROL PLAN - PH III - 5 OF 11	915			1830				
53	TRAFFIC CONTROL PLAN - PH III - 6 OF 11	450			820				
54	TRAFFIC CONTROL PLAN - PH III - 7 OF 11	760	44		3842			52	
55	TRAFFIC CONTROL PLAN - PH III - 8 OF 11	1000			2000				
56	TRAFFIC CONTROL PLAN - PH III - 9 OF 11	1000			2000				
57	TRAFFIC CONTROL PLAN - PH III - 10 OF 11	935			1870				
58	TRAFFIC CONTROL PLAN - PH III - 11 OF 11	775	32		1490				
59	TRAFFIC CONTROL PLAN - PH IV - 1 OF 2								
60	TRAFFIC CONTROL PLAN - PH IV - 2 OF 2					2290	940		
	TOTALS	27272	420	3	45122	2290	940	4132	154

✳ FOR CONTRACTOR'S INFORMATION ONLY. SUBSIDIARY TO ITEM 508.

ADDENDUM NO. 02

PAPE-DAWSON ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TEXAS 78213 | PHONE: 210.375.9000 FAX: 210.375.9010

TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

RAY ELLISON BLVD
LOOP 410 TO OLD PEARSALL RD

SUMMARY OF QUANTITIES
TRAFFIC CONTROL

SHEET 2 OF 2

100 % SUBMITTAL	PROJECT NO.: 8185-00		DATE: 3182015
DRWN. BY: BD	DSGN. BY: HM	CHKD. BY: DT	SHEET NO.: 17

TRAFFIC NOTES AND SPECIAL CONDITIONS

1. ENSURE THAT ALL TRAFFIC CONTROL DEVICES ARE PROPERLY INSTALLED AND MAINTAINED AT THE JOB SITE IN ACCORDANCE WITH THE PLANS, SPECIFICATIONS, TMUTCD AND RELATED INDUSTRY STANDARDS AND REGULATIONS. THESE NOTES, DO NOT, IN AND OF THEMSELVES, CONSTITUTE A TRAFFIC CONTROL PLAN. IN THE EVENT THAT THESE PLANS DO NOT INCLUDE TRAFFIC CONTROL, OR THAT THE CONTRACTOR WISHES TO VARY FROM TRAFFIC CONTROL INCLUDED WITH THESE PLANS, HE SHALL SUBMIT FOR REVIEW A TRAFFIC CONTROL PLAN SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF TEXAS, INCLUDING A SIGN AND BARRICADE PLAN CONFORMING TO THE REQUIREMENTS OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE CITY'S CONSTRUCTION OBSERVER / INSPECTOR (COI) AND THE TRAFFIC ENGINEERING REPRESENTATIVE WILL ONLY BE RESPONSIBLE TO INSPECT THE TRAFFIC CONTROL DEVICES BEING DEPLOYED. IF, IN THE OPINION OF THE TRAFFIC ENGINEERING REPRESENTATIVE AND THE COI, THE TRAFFIC CONTROL DEVICES DO NOT CONFORM TO ESTABLISHED STANDARDS OR ARE INCORRECTLY PLACED OR ARE INSUFFICIENT IN QUANTITY TO PROTECT THE GENERAL PUBLIC, THE COI SHALL HAVE THE OPTION TO STOP CONSTRUCTION OPERATIONS AT NO EXPENSE TO THE CITY UNTIL SUCH TIME AS THE CONDITIONS ARE CORRECTED BY THE CONTRACTOR.

2. PRIOR TO STARTING CONSTRUCTION, CONTACT THE CITY OF SAN ANTONIO TRAFFIC OPERATIONS SECTION AT 207-7765 FOR A TRAFFIC SIGN AND TRAFFIC SIGNAL INVENTORY. PRIOR TO COMPLETION OF THE CONTRACT AND REMOVAL OF THE BARRICADES, AGAIN CONTACT THE TRAFFIC OPERATIONS SECTION. THE BARRICADES SHALL NOT BE REMOVED UNTIL ALL APPLICABLE PERMANENT TRAFFIC SIGNS AND SIGNALS ARE IN PLACE.

3. OBTAIN AND MAINTAIN TEMPORARY STOP SIGNS AND ALL OTHER TRAFFIC CONTROL DEVICES REQUIRED TO PROTECT THE GENERAL PUBLIC. IF THE CITY OF SAN ANTONIO HAS REMOVED PERMANENT STOP SIGNS, THE CONTRACTOR SHALL REQUEST THAT THE SIGNS BE RETURNED TO THE CONSTRUCTION SITE TO BE REINSTALLED BY THE CONTRACTOR. ALL PERMANENT SIGNS OR TRAFFIC CONTROL DEVICES MISSING OR DAMAGED UPON COMPLETION OF CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE

4. AS WORK PROGRESSES, LOCATION OF TEMPORARY TRAFFIC CONTROL DEVICES WILL BE ADJUSTED AND MODIFIED, AS NECESSARY BY THE CONTRACTOR AT CONTRACTOR'S EXPENSE.

5. IF THE NEED ARISES, ADDITIONAL TEMPORARY TRAFFIC CONTROL DEVICES, SPECIAL DIRECTIONAL DEVICES, AND/OR BUSINESS NAME SIGNS MAY BE ORDERED BY THE TRAFFIC ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.

6. TEMPORARY TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE CITY'S "TYPICAL SIGN AND BARRICADE STANDARDS" SHEETS, TxDOT'S STANDARDS, AND TO THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

7. MAINTAIN ALL STREETS WITHIN PROJECT LIMITS OPEN TO THROUGH TRAFFIC BY REPAIRING TRENCHES, POTHOLES, LEVELING UP WITH ASPHALT, ETC. AT NO DIRECT PAYMENT, WITH THE COST TO BE INCLUDED IN OTHER ITEMS.

8. PROVIDE SUITABLE ACCESS ACCOMMODATIONS FOR SCHOOL CHILDREN AND PEDESTRIANS IF NEEDED.

9. PROVIDE ACCESS FOR DELIVERY OF MAIL BY THE U.S. POSTAL SERVICE.

10. PROVIDE FOR ACCESS TO RESIDENCES AND ALL BUSINESSES AT ALL TIMES WITHIN ALL PHASES OF THE WORK.

11. WHEN CONSTRUCTION WORK NECESSITATES THE UTILIZATION OF VEHICLE PATHS OTHER THAN THE LANES NORMALLY USED, TRAFFIC CONTROL MARKINGS NO LONGER APPLICABLE SHALL BE REMOVED AND APPROVED TEMPORARY PAVEMENT MARKINGS AND SIGNS INSTALLED IN ACCORDANCE WITH PART VI-D OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

12. THE COI WILL MONITOR THE CONTRACTOR'S TRAFFIC CONTROL DEVICES AND WILL BE RESPONSIBLE TO FURNISH ALL RESIDENTS AND BUSINESSES WITH AN INFORMATION FLYER ON ALL JOBS DURING CONSTRUCTION.

13. ANY DAMAGE TO PERMANENT TRAFFIC SIGNALS, THE CONTROLLER BOX, LOOPS OR CONDUITS DURING OR UPON COMPLETION OF THE PROJECT SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE. THE DECISION TO REPAIR, AS OPPOSED TO REPLACE, THE DAMAGED EQUIPMENT SHALL BE MADE BY THE CITY'S TRAFFIC ENGINEER.

14. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING ALL STREETS OUTSIDE OF THE PROJECT LIMITS, WHICH ARE DAMAGED DUE TO CONSTRUCTION ACTIVITIES. THE REPLACED SECTION MUST BE APPROVED BY THE CITY'S STREET ENGINEER. THERE WILL BE NO DIRECT PAYMENT FOR THIS WORK. THE COST IS TO BE INCLUDED IN OTHER ITEMS.

15. OFF-DUTY POLICE OFFICERS WILL BE REQUIRED AS DIRECTED BY THE TRAFFIC ENGINEER.

16. PROVIDE THE CITY AN EMERGENCY TELEPHONE NUMBER FOR EVENINGS, WEEKENDS, AND HOLIDAYS BY THE FIRST WORKING DAY OF THE PROJECT. THIS TELEPHONE NUMBER MUST BE A COMMERCIAL ANSWERING SERVICE. THE ANSWERING SERVICE MUST BE ABLE TO CONTACT THE CONTRACTOR AND HAVE THE CONTRACTOR RESPOND TO THE CITY STAFF WITHIN TWO HOURS OF THE INITIAL CONTACT.

17. MAINTAIN CONTINUOUS ACCESS TO ALL INTERSECTING STREETS UNLESS OTHERWISE SHOWN ON THESE PLANS. WHEN CONTINUOUS ACCESS IS SCHEDULED TO BE BLOCKED, CONTACT THE DISPATCHERS FOR THE FIRE DEPARTMENT AND EMS AT (210) 227-8341 AND THE POLICE DEPARTMENT AT (210) 207-2257, TO APPRISE THEM OF THE PENDING STREET CLOSURE AT LEAST FORTY-EIGHT HOURS IN ADVANCE. IF THE CLOSURE FALLS ALONG A BUS ROUTE, CONTACT VIA AT (210) 362-5220.

18. MAINTAIN EITHER THE EXISTING OR TEMPORARY STREET NAME SIGNS AT EACH INTERSECTION ONSITE THROUGHOUT CONSTRUCTION. IF THE EXISTING STREET NAME SIGNS ARE USED, THEY MUST BE MAINTAINED IN THE CONDITION ENCOUNTERED PRIOR TO THE BEGINNING OF CONSTRUCTION, AND THEN BE TURNED IN TO THE CITY INSPECTOR AT THE END OF THE PROJECT. IF TEMPORARY SIGNS ARE USED DURING CONSTRUCTION, THEY SHALL HAVE A MINIMUM OF 4-INCH LETTERS, AND MAY BE FABRICATED WITH CONSTRUCTION ZONE MATERIAL (BLACK LEGEND ON ORANGE BACKGROUND, USING PLYWOOD SUBSTRATE, ETC.).

PHASING AND STAGING NOTES - STREET AND DRAINAGE CONSTRUCTION

1. ANY QUESTIONS REGARDING PHASING OR STAGING WILL BE STRICTLY HANDLED BY THE DEPARTMENT OF PUBLIC WORKS WHICH HAS COMPLETE AUTHORITY TO MAKE FINAL DECISIONS ON ANY CHANGES OR MODIFICATIONS. THE CONTRACTOR MUST CONTACT THE CITY'S CONSTRUCTION INSPECTOR 48 HOURS IN ADVANCE (NOT INCLUDING WEEKENDS OR HOLIDAYS) OF ANY MINOR STREET CLOSURE. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ADVISE CONSTRUCTION INSPECTIONS TEN (10) DAYS IN ADVANCE OF ANY ARTERIAL STREET CLOSURE. THIS MUCH TIME IS NECESSARY TO INSTALL ADVISORY SIGNS AND GIVE THE MOTORISTS A MINIMUM OF SEVEN (7) DAYS NOTICE BEFORE STREET CLOSURE. THE CONSTRUCTION INSPECTOR, AFTER HAVING BEEN NOTIFIED, WILL CONTACT THE ENGINEERING OFFICE IMMEDIATELY TO MAKE THE NECESSARY ARRANGEMENTS. THE TEMPORARY BARRICADES AND WARNING SIGNS SHALL BE LOCATED SO AS TO AFFORD THE MAXIMUM PROTECTION TO THE PUBLIC AS WELL AS CONSTRUCTION PERSONNEL AND EQUIPMENT AND TO FACILITATE AN EXPEDITIOUS FLOW OF TRAFFIC AT ALL TIMES DURING CONSTRUCTION.

2. IF THERE ARE TWO (2) OR MORE PHASES IN THE PROJECT, NO MORE THAN TWO (2) PHASES OF CONSTRUCTION MAY BE WORKED AT ONE TIME, UNLESS OTHERWISE INDICATED IN THE PLANS. PARTIAL CONSTRUCTION AT DIFFERENT SCATTERED LOCATIONS WITHIN THE PROJECT WILL NOT BE ALLOWED. PROJECTS THAT CONSIST OF DISTINCT AND SEPARATE AREAS MAY BE UNDER CONSTRUCTION AT THE SAME TIME WITH AN APPROVED FIELD ALTERATION. ALL REMAINING STREETS WITHIN THE PROJECT OR SEPARATE AREA SHALL REMAIN OPEN AT ALL TIMES.

3. UNLESS OTHERWISE INDICATED IN THE PLANS, TWO (2) PHASES IN SEQUENCE MAY BE WORKED AT THE SAME TIME, IN PROJECTS WHERE THERE ARE AT LEAST THREE (3) PHASES, SUCH AS PHASE 1 AND PHASE 2 AND BEFORE GOING TO PHASE 3. PHASE 1 MUST BE COMPLETED 100% WITH CASE MATERIAL AND APPROVED DENSITIES (PRIME COATED IF BASE MATERIAL IS ITEM NO. 200 FLEXIBLE BASE) BEFORE BEGINNING PHASE 3. IF THERE ARE ONLY TWO (2) PHASES IN THE PROJECT, PHASE 1 MUST BE COMPLETED 100% WITH BASE MATERIAL AND APPROVED DENSITIES (PRIME COATED IF BASE MATERIAL IS ITEM NO. 200 FLEXIBLE BASE) BEFORE PROCEEDING TO PHASE 2.

4. IF THE PROJECT HAS MORE THAN SIXTEEN (16) PHASES, BEFORE THE CONTRACTOR CAN BEGIN PHASE 17, HE MUST COMPLETELY FINISH WITH TYPE "B" OR TYPE "D" ASPHALT AT LEAST 50% OF THE LOWER PHASES HE HAS WORKED ON. (EXAMPLE: IF THE PROJECT HAS 20 PHASES, BEFORE THE CONTRACTOR CAN START CONSTRUCTION OF PHASE 17, HE MUST FINISH TYPE B OR TYPE D ASPHALT UP TO PHASE 8.).

5. THE PLANS ARE PHASED FOR STREET AND STORM DRAINAGE CONSTRUCTION. NO STORM SEWER CONSTRUCTION WILL TAKE PLACE OUTSIDE OF THE PHASING LIMITS UNDER CONSTRUCTION, UNLESS SPECIFICALLY NOTED ON THE PLANS OR AUTHORIZED IN WRITING BY THE TRAFFIC DIVISION.

6. ALL STORM DRAINAGE PIPES ARE NOT CONSIDERED UTILITIES, REGARDLESS OF SIZE. THIS WORK SHALL BE PART OF THE PHASE.

7. UNLESS OTHERWISE INDICATED IN THE PLANS, INTERSECTING STREETS SHALL BE CONSTRUCTED IN STAGES SO AS TO MAINTAIN ACCESS. INTERSECTION WORK SHALL BE DONE DURING WEEKEND HOURS OR AS DIRECTED BY THE ENGINEER. NO TWO ADJACENT INTERSECTIONS MAY BE CONSTRUCTED SIMULTANEOUSLY. WITH APPROVAL FROM THE ENGINEER, THE CONTRACTOR MAY CLOSE AN ENTIRE INTERSECTION. THE CONTRACTOR WILL BE REQUIRED TO PROVIDE A DETOUR PLAN FOR SUCH A CLOSURE TO THE ENGINEER FOR APPROVAL.

TCP PLAN ADDITIONAL NOTES

1. GENERAL.

   A. IF SO PERMITTED BY THE ENGINEER, WORK ACTIVITIES ON SUNDAY SHALL BE APPROVED IN ADVANCE. LANE CLOSURES WILL BE ALLOWED IN ONE DIRECTION ONLY. NOTIFY THE ENGINEER OF IMPENDING/UPCOMING LANE CLOSURES AT LEAST (7) DAYS IN ADVANCE OF LANE CLOSURES. THE LANE CLOSURES SHALL BE IN COMPLIANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).

   B. LANE CLOSURES OTHER THAN THOSE SHOWN ON THE PHASING PLAN WILL NOT BE ALLOWED DURING NON-WORK HOURS. NO EQUIPMENT SHALL BE LEFT IN A POSITION THAT WILL ENDANGER THE TRAVELING PUBLIC.

   C. MAINTAIN ADEQUATE DRAINAGE THROUGHOUT ALL PHASES OF CONSTRUCTION, WITH THE STORM WATER POLLUTION PREVENTION PLAN IN PLACE.

   D. ACCESS TO PROPERTIES MUST BE MAINTAINED AT ALL TIMES UNLESS OTHERWISE SHOWN.

   E. A MINIMUM 3:1 (H:V) TEMPORARY SAFETY SLOPE OF STABLE COMPACTED MATERIAL WILL BE REQUIRED ADJACENT TO THE EDGE OF PAVEMENT DURING NON WORKING HOURS.

   F. PER COSA SPECIFICATION 533, THE REMOVAL OF CONFLICTING PAVEMENT MARKINGS/MARKERS IS SUBSIDIARY TO THE VARIOUS PAVEMENT MARKING/MARKER PAY ITEMS. NO SEPARATE PAY FOR PAVEMENT MARKING/MARKER REMOVAL IS INCLUDED.

   G. ALL SAWS MANHOLES AND WATER VALVES ARE TO REMAIN ACCESSIBLE AT ALL TIMES. VALVES MAY REQUIRE ADDITIONAL ADJUSTMENTS IN AREAS OF TEMPORARY PAVEMENT (NO SEPARATE PAY ITEM.)

   H. WORKING DAY CHARGES WILL COMPLY WITH A SIX-DAY WORKWEEK. WORKING DAYS WILL BE CHARGED MONDAY THROUGH SATURDAY SUN UP TO SUN DOWN, EXCLUDING CITY APPROVED HOLIDAYS.

2. POLICE OFFICER NOTES

   A. WHEN THE OFFICER IS PRESENT HE IS REQUIRED TO BE DIRECTING TRAFFIC AT ALL TIMES. IF THE OFFICER IS PRESENT AT A SIGNALIZED INTERSECTION THE TRAFFIC SIGNAL WILL BE PUT ON FLASHING RED WHEN OFFICER IS PRESENT.

3. ALAN B SHEPARD MIDDLE SCHOOL NOTES:

   A. CONSTRUCTION ACTIVITES NEAR THE MIDDLE SCHOOL WILL NOT BE ALLOWED FROM 7 AM TO 9 AM AND FROM 3 PM TO 5PM ON DAYS SCHOOL IS IN SESSION.

   B. CONTRACTOR WILL COORDINATE WITH THE MIDDLE SCHOOL AND NO CONSTRUCTION ACTIVIES WILL BE ALLOWED ON STAR TESTING DAYS. TESTING DAYS ARE IN MARCH, APRIL AND MAY. SPECIFIC DAYS WILL BE DETERMINED BY THE SCHOOL.

   C. ALL DRIVEWAY CONSTRUCTION MUST BE COORDINATED WITH THE SCHOOL. CONTRACTOR WILL NOT SHUT DOWN ANY SCHOOL DRIVEWAY UNTIL APPROVED BY THE SCHOOL.

SPECIAL NOTES AND PROVISIONS:

1. DO NOT CONSTRUCT FINAL HOTMIX LIFT UNTIL INSTRUCTED TO DO SO BY THE ENGINEER.

2. ALL CONFLICTING PAVEMENT MARKINGS MUST BE REMOVED.

PHASE I

1. NOTE THAT NO DESIGN SHEETS FOR PHASE I TCP ARE INCLUDED. ALL PHASE I TCP IS COVERED BY STANDARDS.

2. INSTALL TEMPORARY EROSION CONTROL MEASURES.

3. BEGIN UTILITY (SAWS WATER, SAWS SEWER, AND CPS GAS) WORK. LPCB QUANTITY IS PROVIDED TO PROTECT UTILITY WORK WHITHIN 10 FEET OF EDGE OF TRAVEL LANE THAT CAN ONLY BE INSTALLED DURING PHASE I. ALL UTILITY WORK THAT CANNOT BE COMPLETED IN PHASE I WILL BE COMPLETED IN PHASE II WITH THE EXCEPTION OF VALVE AND MANHOLE ADJUSTMENTS, THOSE WILL BE COMPLETED IN THE PHASE WHERE GRADE IS ADJUSTED AROUND THEM.

4. USING TCP (1-2b) CONTRACTOR TO CONSTRUCT DOWNSTREAM END OF CULVERT A. CONSTRUCT REMAINDER UNDER PHASE II TCP WORKZONE. CULVERT A MUST BE FINISHED ACROSS THE ENTIRE ROADWAY BEFORE REMOVING THE EXISTING 2-24" RCP AT STA 109+36.

5. CONTRACTOR TO CONSTRUCT SIDEWALK IMPROVEMENTS ON HAZEL VALLEY THIS PHASE. CLOSURE OF SIDEWALK ON RAY ELLISON FROM WALNUT VALLEY TO APPLE VALLEY WILL NOT BE ALLOWED UNTIL THE SIDEWALK ON HAZEL VALLEY IS IN PLACE AND OPEN TO PEDESTRIANS.

6. EXTEND EXISTING CULVERT AT STA 109+36 AND EXTEND UPSTREAM PORTION OF CULVERT D PER PLANS PRIOR TO INSTALLING TEMPORARY ASPHALT WIDENING.

7. INSTALL PERMANENT SCHOOL ZONE FLASHING BEACON ASSEMBLIES.

8. CONSTRUCT TEMPORARY SIDEWALKS FOR PHASE II AS DETAILED IN PLANS.

9. REMOVE MEDIAN FROM STA 100+00 TO 103+00. CONSTRUCT TEMPORARY ASPHALT WIDENING FOR PHASE II AS DETAILED IN PLANS USING TCP 2-1 AND 2-2. ROADWAY SIDE SLOPES ARE NOT TO EXCEED 3:1.

10. ADJUST EXISTING SIGNAL HEADS AT INTERSECTIONS FOR PHASE II OPERATIONS.

11. COMPLETE ALL WORK IN PHASE I, EXCEPT UTILITY WORK AS NOTED, BEFORE CONTINUING TO PHASE II.

PHASE II

1. INSTALL/ADJUST TEMPORARY EROSION CONTROL MEASURES.

2. INSTALL PERMANENT SPAN WIRE TRAFFIC SIGNAL AT OLD PEARSALL ROAD AS SHOWN IN PLANS AND AS PER TMUTCD.

3. INSTALL WORK ZONE PAVEMENT MARKINGS AS SHOWN IN PHASE II PLANS.

4. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AS SHOWN IN THE PLANS AND IN ACCORDANCE WITH COSA AND TXDOT BC STANDARDS AND TMUTCD.

5. ADJUST OLD PEARSALL AND FIVE PALMS SIGNAL HEADS.

6. PUT IN PLACE WALNUT VALLEY PEDESTRIAN DETOUR PLAN. DETOUR TO REMAIN IN PLACE UNTIL PHASE II SIDEWALK BETWEEN WALNUT VALLEY AND APPLE VALLEY ON RAY ELLISON IS IN PLACE AND OPEN TO PEDESTRIANS.

7. SHIFT TRAFFIC TO THE TCP PHASE II SECTION.

8. BEGIN PHASE II CONSTRUCTION AS SHOWN IN THE CONSTRUCTION PLANS.

9. DO NOT CONSTRUCT MEDIAN AT IH 410 END OF PROJECT, CONSTRUCT MEDIAN IN PHASE IV.

10. INSTALL PEDESTRIAN SIGNAL POLE AT IH 410 NORTHBOUND FRONTAGE ROAD AS PER PLANS AND AS PER TMUTCD.

11. TEMPORARILY STRIPE NEW CONSTRUCTION AS SHOWN IN PHASE III OF THE PLANS.

12. COMPLETE ALL WORK IN PHASE II BEFORE CONTINUING TO PHASE III.

PHASE III

1. INSTALL/ADJUST TEMPORARY EROSION CONTROL MEASURES. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES INCLUDING PAVEMENT MARKINGS AND CHANNELIZATION DEVICES. ADJUST TRAFFIC SIGNAL HEADS AT OLD PEARSALL ROAD AND FIVE PALMS TRAFFIC SIGNALS PER TMUTCD. COVER HEADS NOT IN USE.

2. SHIFT TRAFFIC TO THE PROPOSED TCP PHASE III SECTION.

3. CONSTRUCT PHASE III AS SHOWN IN THE PLANS.

4. PUT IN PLACE APPLE VALLEY NORTH DETOUR PLAN PRIOR TO CLOSING APPLE VALLEY. CONTRACTOR MUST HAVE APPLE VALLEY OPEN TO TRAFFIC WITHIN 4 WEEKS OF CLOSING.

5. DO NOT CONSTRUCT MEDIAN AT IH 410 END OF PROJECT, CONSTRUCT MEDIAN IN PHASE IV.

6. TEMPORARILY STRIPE NEW CONSTRUCTION IN ACCORDANCE WITH TCP PHASE IV.

7. COMPLETE ALL WORK IN PHASE III BEFORE CONTINUING TO PHASE IV.

PHASE IV

1. INSTALL/ADJUST TEMPORARY EROSION CONTROL MEASURES. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES INCLUDING PAVEMENT MARKINGS AND CHANNELIZATION DEVICES. MOVE TRAFFIC SIGNAL HEADS TO PERMANENT/FINAL POSITION.

2. ACTIVATE PROPOSED OLD PEARSALL AND PROPOSED FIVE PALMS SIGNALS. SHIFT TRAFFIC TO THE PROPOSED TCP PHASE IV SECTION.

3. CONSTRUCT PHASE IV AS SHOWN IN THE PLANS.

4. PLACE THE FINAL HOTMIX LIFT USING TEMPORARY LANE CLOSURES TCP1-4. MARKING TABS ARE TO BE USED AS TRAFFIC LANE DELINEATORS UNTIL FINAL STRIPING HAS BEEN COMPLETED.

5. STRIPE THE ROADWAY TO ITS ULTIMATE CONFIGURATION.

ADDENDUM NO. 02

STATE OF TEXAS
JAMES A. LUTZ
84722
LICENSED
PROFESSIONAL ENGINEER

JAMES A. LUTZ, P.E. 3/18/2015
DATE

SCALE: NTS

PAPE-DAWSON ENGINEERS
2000 NW LOOP 410 | SAN ANTONIO, TEXAS 78213 | PHONE: 210.375.9000 FAX: 210.375.9010
TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

RAY ELLISON BLVD
LOOP 410 TO OLD PEARSALL RD
TRAFFIC CONTROL PLAN
NARRATIVE AND SPECIAL NOTES

100 % SUBMITTAL	PROJECT NO.: 8185-00		DATE: 3182015
DRWN. BY: HM	DSGN. BY: HM	CHKD. BY: DT	SHEET NO.: 30

I. STORMWATER POLLUTION PREVENTION-CLEAN WATER ACT SECTION 402

Texas Pollutant Discharge Elimination System (TPDES) TXR 150000: Stormwater Discharge Permit or Construction General Permit (CGP) required for projects with 1 or more acres distrubed soil. Projects with any disturbed soil must protect for erosion and sedimentation in accordance with Item 1122.

☐ No Action Required ☒ Required Action

Action No.

1. Prevent stormwater pollution by controlling erosion and sedimentation in accordance with TPDES Permit TXR 150000.
2. Comply with the Storm Water Pollution Prevention Plan (SW3P) and revise when necessary to control pollution or required by the Engineer.
3. Post Construction Site Notice (CSN) with SW3P information on or near the site, accessible to the public and Texas Commission on Environmental Quality (TCEQ), Environmental Protection Agency (EPA) or other inspectors.
4. When Contractor project specific locations (PSL's) increase disturbed soil area to 5 acres or more, Contractor shall submit Notice of Intent (NOI) to TCEQ and the Engineer.
5. NOI required: ☒ Yes ☐ No

Note: If amount of soil disturbance changes, permit requirements may change.

II. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

NPDES required for projects disturbing 1 or more acres of land but is part of a common plan of development or sale that will ultimately disturb 1 or more acres of land.

☐ No Action Required ☒ Required Action

1. Prevent stormwater pollution by controlling erosion and sedimentation in accordance with NPDES.
2. Comply with the Storm Water Pollution Prevention Plan (SW3P) and revise when necessary to control pollution or required by the Engineer.
3. A notice must be posted which should include the NPDES Permit tracking number contact name and phone number for obtaining additional project information.
4. EPA NOI required ☒ Yes ☐ NO

III. WORK IN OR NEAR STREAMS, WATERBODIES AND WETLANDS CLEAN WATER ACT SECTIONS 401 AND 404

US Army Corps of Engineers (USACE) Permit required for filling, dredging, excavating or other work in any potential USACE jurisdictional water, such as, rivers, creeks, streams, or wetlands.

The Contractor shall adhere to all of the terms and conditions associated with the following permit(s):

☐ No Permit Required

☒ Nationwide Permit (NWP) 14 - Pre-construction Notice (PCN) not Required

☐ Nationwide Permit 14 - PCN Required

☐ Individual 404 Permit Required

☒ Other Nationwide Permit Required: NWP# 12 - sewer, 12 - gas

Required Actions: List waters of the US permit applies to, location in project and check Best Management Practices (BMPs) planned to control erosion, sedimentation and post-project total suspended solids (TSS).

1. INDIAN CREEK

401 Best Management Practices: (Not applicable if no USACE permit)

Erosion	Sedimentation	Post-Construction TSS
☒ Temporary Vegetation	☒ Silt Fence	☐ Vegetative Filter Strips
☒ Blankets/Matting	☒ Rock Berm	☐ Retention/Irrigation Systems
☐ Mulch	☐ Triangular Filter Dike	☐ Extended Detention Basin
☐ Sodding	☐ Sand Bag Berm	☐ Constructed Wetlands
☐ Interceptor Swale	☐ Straw Bale Dike	☐ Wet Basin
☐ Diversion Dike	☐ Brush Berms	☐ Erosion Control Compost
☐ Erosion Control Compost	☐ Erosion Control Compost	☐ Mulch Filter Berm and Socks
☐ Mulch Filter Berm and Socks	☐ Mulch Filter Berm and Socks	☐ Compost Filter Berm and Socks
☐ Compost Filter Berm and Socks	☐ Compost Filter Berm and Socks	☒ Vegetation Lined Ditches
	☐ Stone Outlet Sediment Traps	☐ Sand Filter Systems
	☐ Sediment Basins	☐ Sedimentation Chambers

IV. CULTURAL RESOURCES

Cultural resources fall under the Antiquities Code of Texas and/or the National Historic Preservation Act, as amended in 1966. If a previously unidentified archaeological site is encountered during construction work, activities should be immediately stopped in the vicinity and the City Archaeologist (210-207-7306) notified and/or the SHPO.

☒ No Action Required ☐ Required Action

Action No.

1.

2.

3.

4.

V. VEGETATION RESOURCES

Preserve native vegetation to the extent practical.

☐ No Action Required ☒ Required Action

Action No.

1. ENSURE THAT A TREE PERMIT IS IN PLACE FOR THE PROJECT. IF REQUIRED.
2. FOLLOW THE TREE PRESERVATION-MITIGATION PLAN PROVIDED IN THE DESIGN PLAN SET. IF THERE ARE ANY QUESTIONS OR CONCERNS, PLEASE CONTACT THE CITY ARBORIST AT 207-0278, BEFORE ANY WORK BEGINS.
3.
4.

VI. FEDERAL LISTED, PROPOSED THREATENED, ENDANGERED SPECIES, CRITICAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES AND MIGRATORY BIRDS.

☐ No Action Required ☒ Required Action

Action No.

1. MIGRATORY BIRD NESTS: Schedule construction activities as needed to meet the following requirements:

   A. Do not remove or destroy any active migratory bird nests (nests containing eggs and/or flightless birds) at any time of year. If there are any active nests, they shall not be removed until the nests become inactive.

   B. On/in structures, if there are any active nests, they shall not be removed until all nests become inactive. After inactive nests are removed and/or before nest activity begins, deterrent materials may be applied to the structures to prevent future nest building.

2. See Item 5 in General Notes.
3.
4.

If any of the listed species are observed, cease work in the immediate area, do not disturb species or habitat and contact the Engineer immediately. The work may not remove active nests from bridges and other structures during nesting season of the birds associated with the nests. If caves or sinkholes are discovered, cease work in the immediated area, and contact the Engineer immediately.

STATE OF TEXAS — CHRISTOPHER BOENTGES — 109721 — LICENSED PROFESSIONAL ENGINEER

CHRISTOPHER BOENTGES, P.E. — 3/17/2015 DATE

STATE OF TEXAS — LEONARD DALE YOUNG — 61852 — LICENSED PROFESSIONAL ENGINEER

LEONARD DALE YOUNG, P.E. — 3/17/2015 DATE

VII. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (applies to all projects):

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropiate for any hazardous materials used.

Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the Act.

Maintain an adequate supply of on-site spill response materials, as indicated in the MSDS. In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices, and contact the COSA Inspector immediately. The Contractor shall be responsible for the proper containment and cleanup of all product spills.

Contact the COSA Inspector if any of the follwing are detected:
* Dead or distressed vegetation (not identified as normal)
* Trash piles, drums, canister, barrels, etc.
* Undesirable smells or odors
* Evidence of leaching or seepage of substances

Hazardous Materials or Contamination Issues Specific to this Project:

☒ No Action Required ☐ Required Action

Action No.

1.

2.

3.

Does the project involve the demolition of a span bridge?

☐ Yes ☒ No (No further action required)

If "Yes", a pre-demolition notification must be submitted to the Texas Department of State Health Services, 20 calendar days prior to the demolition of the bridges(s) on the project. Contact TxDOT's hazardous material Coordinator at 210-615-6486 for assisstance with the notification.

VIII. OTHER ENVIRONMENTAL ISSUES

(includes regional issues such as Edwards Aquifer District, etc.)

☐ No Action Required ☒ Required Action

Action No.

1. ASBESTOS CEMENT (AC) PIPE WILL BE REMOVED DURING PROJECT CONSTRUCTION. REFER TO AC PIPE SPECIFICATIONS ("SAWS SPEC 3000") FOR HANDLING, TRANSPORTATION, AND DISPOSAL METHODS.
2.
3.

ADDENDUM NO. 02

RAY ELLISON BLVD
LOOP 410 TO OLD PEARSALL RD
SEPTEMBER 2014

ENVIRONMENTAL PERMITS, ISSUES AND COMMITMENTS

244

FILE: epic August 2012.dgn	DN: TxDOT	CK: TxDOT	DW: BW	CK: JAB	
©TxDOT August 2012	CONT	SECT	JOB	HIGHWAY	
REVISIONS					
	DIST	COUNTY		SHEET NO.	
				244	

3/17/2015 10:56:25 AM

SAN ANTONIO WATER SYSTEM

PAPE-DAWSON ENGINEERS

2000 NW LOOP 410 | SAN ANTONIO, TEXAS 78213 | PHONE: 210.375.9000 FAX: 210.375.9010

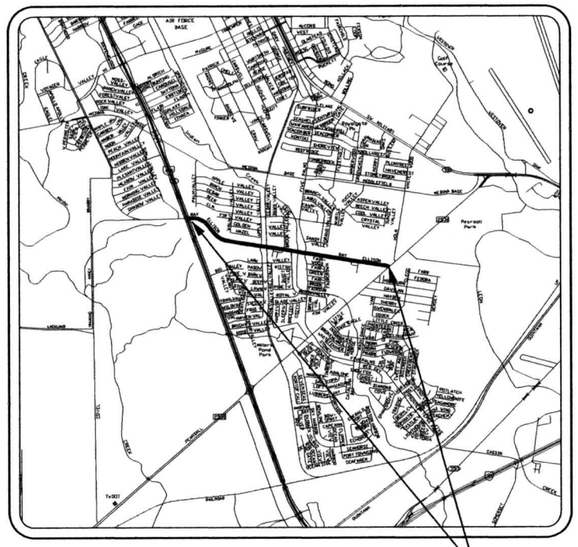
TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

YOUNG PROFESSIONAL RESOURCES
8209 Roughrider Drive, Suite 101
Windcrest, TX 78239
Tel. (210) 590-9215 Fax (210)590-9346
Young Professional Resources ©
Registration No. F-8635

WATER JOB NO: 12-5091

RAY ELLISON BOULEVARD
410 TO OLD PEARSALL ROAD
WATER SYSTEM
UTILITY ADJUSTMENTS PLAN

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QUANTITY
100	MOBILIZATION	LS	1
101	PREPARATION OF RIGHT-OF-WAY	LS	1
205	HOT MIX ASPHALTIC PVEMENT - TYPE D (2" COMPACTED DEPTH)	SY	602
206	ASPHALT TREATED BASE (10" COMPACTED DEPTH)	SY	457
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	4192
818	8" PVC WATERLINE (RESTRAINED)	LF	80
818	12" PVC WATERLINE (RESTRAINED)	LF	3931
818	16" PVC WATERLINE (RESTRAINED)	LF	146
824	RELAY 1-1/2" SHORT SERVICE	EA	4
824	RELAY 1" LONG SERVICE	EA	1
824	RELAY 2" LONG SERVICE	EA	1
826	VALVE BOX ADJUSTMENT	EA	7
828	8" GATE VALVES	EA	2
828	12" GATE VALVES	EA	13
832	16" x 12" TAPPING SLEEVE AND VALVES	EA	2
834.1	FIRE HYDRANT	EA	10
834.2	TAPPED FIRE HYDRANT	EA	2
836	PIPE FITTINGS, ALL SIZES AND TYPES	TON	11.4
840	8" WATER TIE-INS	EA	2
840	12" WATER TIE-INS	EA	12
840	16" WATER TIE-INS	EA	2
841	HYDROSTATIC TESTING	EA	8
844	2" BLOWOFF, TEMPORARY	EA	16
844	2" BLOWOFF, PERMANENT	EA	3
846	1" AIR RELEASE ASSEMBLY	EA	1
856.2	12" CARRIER PIPE	LF	20
856.2	16" CARRIER PIPE	LF	44
856.3	CASING OR LINER 24"	LF	20
856.3	CASING OR LINER 30"	LF	44
3000	REMOVAL, TRANSPORTATION AND DISPOSAL OF AC PIPE	LF	790



LOCATION MAP
NTS

PROJECT LOCATION:
RAY ELLISON BOULEVARD
410 TO OLD PEARSALL ROAD

SHEET INDEX

STATE OF TEXAS
CHRISTOPHER BOENTGES
109721
LICENSED
PROFESSIONAL ENGINEER

CHRISTOPHER BOENTGES, P.E. — 3/17/2015 DATE

STATE OF TEXAS
LEONARD DALE YOUNG
61852
LICENSED
PROFESSIONAL ENGINEER

LEONARD DALE YOUNG, P.E. — 3/17/2015 DATE

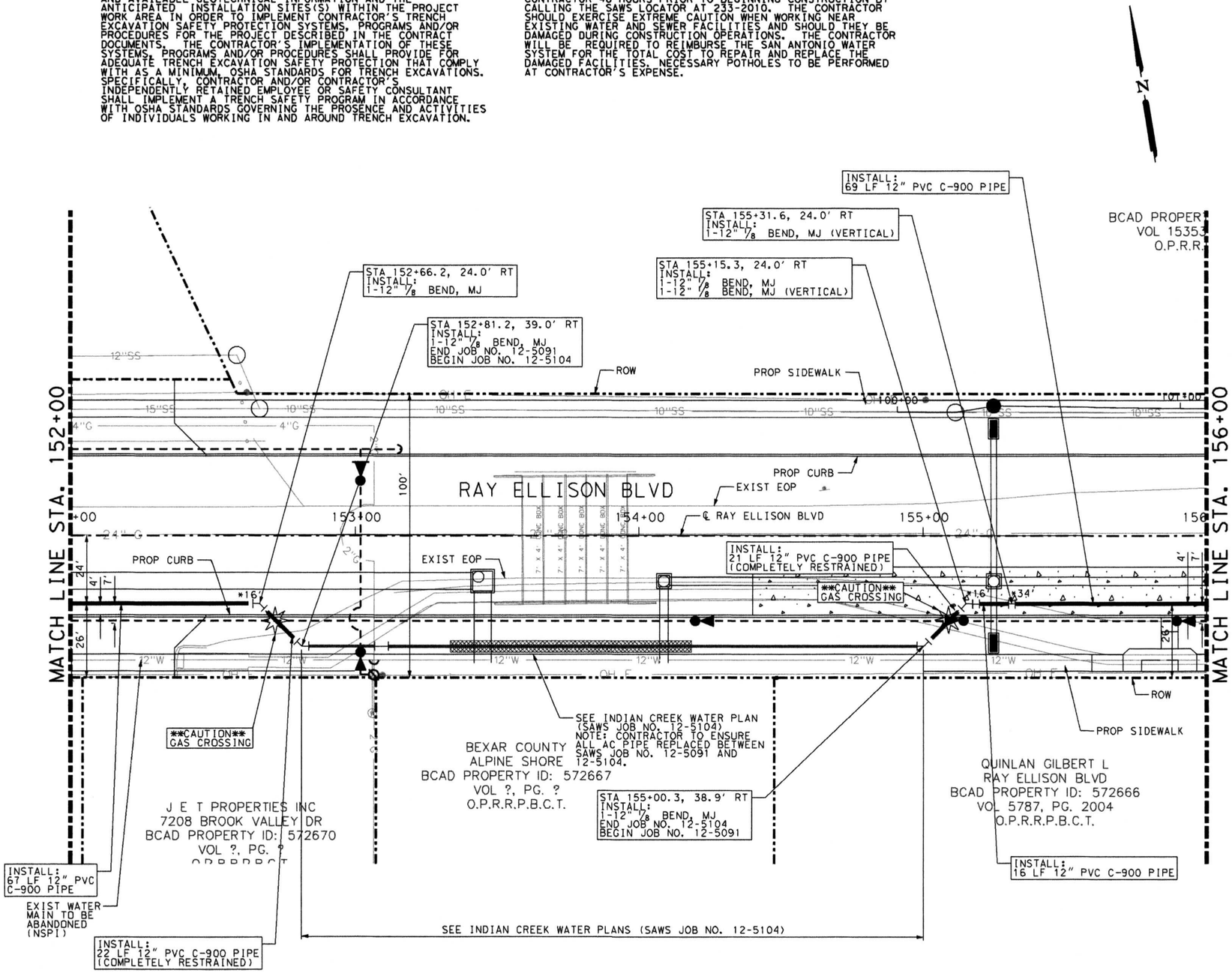
ADDENDUM NO. 02

WATER JOB NO: 12-5091

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(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLY WITH AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PROSENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

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

ESTIMATED QUANTITIES			
ITEM	DESCRIPTION	UNIT	QTY
205	HOT MIX ASPHALTIC PVEMENT - TYPE D (2" COMPACTED DEPTH)	SY	20
206	ASPHALT TREATED BASE (10" COMPACTED DEPTH)	SY	15
550	TRENCH EXCAVATION SAFETY PROTECTION	LF	202
818	12" PVC WATERLINE (RESTRAINED)	LF	202
836	PIPE FITTINGS, ALL SIZES AND TYPES	TON	0.8



NOTE TO CONTRACTOR:

WATER AND SEWER FACILITIES TO BE PROTECTED DURING CONSTRUCTION AT ALL TIMES.

NOTES:
1.) ALL EXISTING FEATURES ARE SHOWN SCREENED BACK, i.e. FADED.
2.) CONTRACTOR IS RESPONSIBLE FOR MAINTAINING AND PROTECTING THE INTEGRITY OF POWER POLES AND GUY WIRES DURING CONSTRUCTION (NSPI).
3.) CONTRACTOR IS RESPONSIBLE FOR MAINTAINING WATER SERVICE TO EXISTING WATER MAINS AND SERVICES AT ALL TIMES.
4.) DEPTH OF EXISTING UTILITIES IS APPROXIMATE FROM AVAILABLE AS-BUILT RECORDS. CONTRACTOR TO POTHOLE EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. IF EXISTING UTILITIES' DEPTH AND/OR ALIGNMENT DIFFERS FROM WHAT IS SHOWN ON PLAN, NOTIFY ENGINEER IMMEDIATELY (NSPI).
5.) CONTRACTOR SHALL PROTECT AND/OR REPAIR (IF DAMAGED) ANY EXISTING WATER SERVICE LATERALS AND IRRIGATION SHOWN OR NOT SHOWN ON THE PLANS (NSPI).
6.) CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS THROUGH ALL DRIVEWAYS FOR EMERGENCY ACCESS.
7.) SAWS SHALL MACHINE CHLORINATE NEW MAINS UNLESS OTHERWISE STATED.
8.) CONTRACTOR SHALL RESTORE PAVEMENT IN STRICT ACCORDANCE WITH PAVEMENT REPLACEMENT DETAIL ON DETAIL SHEET.
9.) CONTRACTOR TO PROTECT EXIST SIGNS (NSPI). PROVIDE TEMPORARY SIGNS AND SALVAGE AND REPLACE SIGNS THAT INTERFERE WITH CONSTRUCTION OF WATER MAIN (NSPI).

STATE OF TEXAS
CHRISTOPHER BOENTGES
109721
LICENSED PROFESSIONAL ENGINEER
CHRISTOPHER BOENTGES, P.E. — 3/20/2015 DATE

STATE OF TEXAS
LEONARD DALE YOUNG
61852
LICENSED PROFESSIONAL ENGINEER
LEONARD DALE YOUNG, P.E. — 3/20/2015 DATE

ASBESTOS CEMENT (AC) 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 OCCUR. PAYMENT FOR SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000.14 "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE."

ADDENDUM NO. 02

LEGEND
* RESTRAINED PIPE LENGTH

SCALE 11x17 SHEET 1"=40'

YOUNG PROFESSIONAL RESOURCES
8209 Roughrider Drive, Suite 101
Windcrest, TX 78239
Tel. (210) 590-9215 Fax (210)590-9346
Young Professional Resources ©
Registration No. F-8635

PAPE-DAWSON ENGINEERS
2000 NW LOOP 410 | SAN ANTONIO, TEXAS 78213 | PHONE: 210.375.9000 FAX: 210.375.9010
TEXAS BOARD OF PROFESSIONAL ENGINEERS, FIRM REGISTRATION # 470

LEGEND
PROP. WATER MAIN
EXIST. WATER MAIN
GAS MAIN
SANITARY SEWER
STORM SEWER
UTILITY POLE LINE
ELECTRIC CABLE
TELEPHONE CABLE
DUAL BRANCH SERV.
NEW UNMETERED SERVICE:
¾" SINGLE
1" DUAL
SERVICE RECONNECT:
¾"
1" OR LARGER
SERVICE RELAY:
¾"
1" OR LARGER
SERVICE RELOCATE:
¾"
1" OR LARGER
RELOCATE METER
NEW SERVICE:
¾"
1" OR LARGER

No.	Revision	Drawn	Approved	Date

REVISIONS

RAY ELLISON BOULEVARD
LOOP 410 TO OLD PEARSALL ROAD
WATER SYSTEM
12-INCH WATER MAIN ADJUSTMENTS
PLAN SHEET

DEVELOPER:
CONT. | BUDGET PROJ.
SUBMITTED
APPROVED
MAP No.
SECT. No.
DR. CB | CK. LDY | JOB No. 12-5091
SHEET 17 OF 23

Design Filename: C:\Users\Chris\Documents\Projects\COSA Bond - Roy Ellison\Design\Civil\2plansheets\Water\RoyEllisonWater09.dgn Plotted on: 3/20/2015

QUANTITIES RAY ELLISON BLVD

Item	Description	Unit	Quantity
100.1	MOBILIZATION	LS	1
100.2	INSURANCE AND BOND	LS	1
101.1	PREPARING RIGHT OF WAY	LS	1
103.1	REMOVE CONCRETE CURB	LF	20
103.3	REMOVE CONCRETE SIDEWALKS AND DRIVEWAY	SF	1380
104.1	STREET EXCAVATION	CY	1373
105.1	CHANNEL EXCAVATION	CY	933
106.1	BOX CULVERT EXCAVATION AND BACKFILL	CY	2480
108.1	LIME TREATED SUBGRADE (8" COMPACTED DEPTH)	SY	2050
108.2	LIME	TON	21
203.1	TACK COAT	GAL	386
205.2	HOT MIX ASPH. PAVE. , TYPE B (8" COMP DEPTH)	SY	2050
205.3	HOT MIX ASPH. PAVE. , TYPE C (2" COMP DEPTH)	SY	1929
205.4	HOT MIX ASPH. PAVE. , TYPE D (1.5" COMP DEPTH)	SY	1929
209.2	BUS STOP CONCRETE PAD	SY	227
306.1	STRUCTURAL EXCAVATION	CY	284
307.1	CONCRETE STRUCTURE(ABUTMENTS AND WINGWALLS)	CY	75
307.1	CONCRETE STRUCTURE (HEADWALLS OR OUTFALL STRUCTURES)	CY	21
309.1	PRECAST REINFORCED CONCRETE CULVERT (6'X6')	LF	114
309.1	PRECAST REINFORCED CONCRETE CULVERT (8'X6')	LF	555
401.1	REINFORCED CONCRETE PIPE (CLASS III 36")	LF	172
401.1	REINFORCED CONCRETE PIPE (CLASS III 24")	LF	49
403.3	JUNCTION BOX 4'X4'X4'	EA	2
403.3	JUNCTION BOX 7'X7'X7'	EA	1
410.2	GRAVEL SUBGRADE FILLER	CY	2.3
500.1	CONCRETE CURBING	LF	620
502.1	CONCRETE SIDEWALKS	SY	414
505.1	CONCRETE RIPRAP (5" THICK)	SY	834
515.1	TOPSOIL	CY	123
517.1	BRIDGE RAILING C-223	LF	208
520.1	HYDROMULCH	SY	883
531	COSA SIGNS	EA	6
535.1	4 INCH YELLOW LINE	LF	620
535.2	4 INCH WHITE LINE	LF	1570
537.8	TRAFFIC BUTTON (TYPE II A- A)	EA	16
537.9	TRAFFIC BUTTON (TYPE II C- R)	EA	16
540.1	ROCK FILTER DAMS(INSTALL/REMOVE)(TYPE 3)	LF	142
540.8	SANDBAGS FOR EROSION CONTROL FENCE	LF	414
540.9	TEMPORARY SEDIMENT CONTROL FENCE	LF	414
550.1	TRENCH EXCAVATION SAFETY PROTECTION	LF	520
554.1	EROSION CONTROL MATTING	SY	493
685.4	SOLAR-POWERED (PHOTOVOLTAIC) SCHOOL ZONE FLASHER ASSEMBLIES	EA	1
	TXDOT		
432	RIPRAP STONE RIPRAP COMMON	SY	125

2

STATE OF TEXAS
ERNEST T. MAESTAS
52938
REGISTERED
PROFESSIONAL ENGINEER
3/10/2015

NO	REVISION	DRAWN	APPROVED	DATE
2	ADDENDUM		JPS	3/10/15

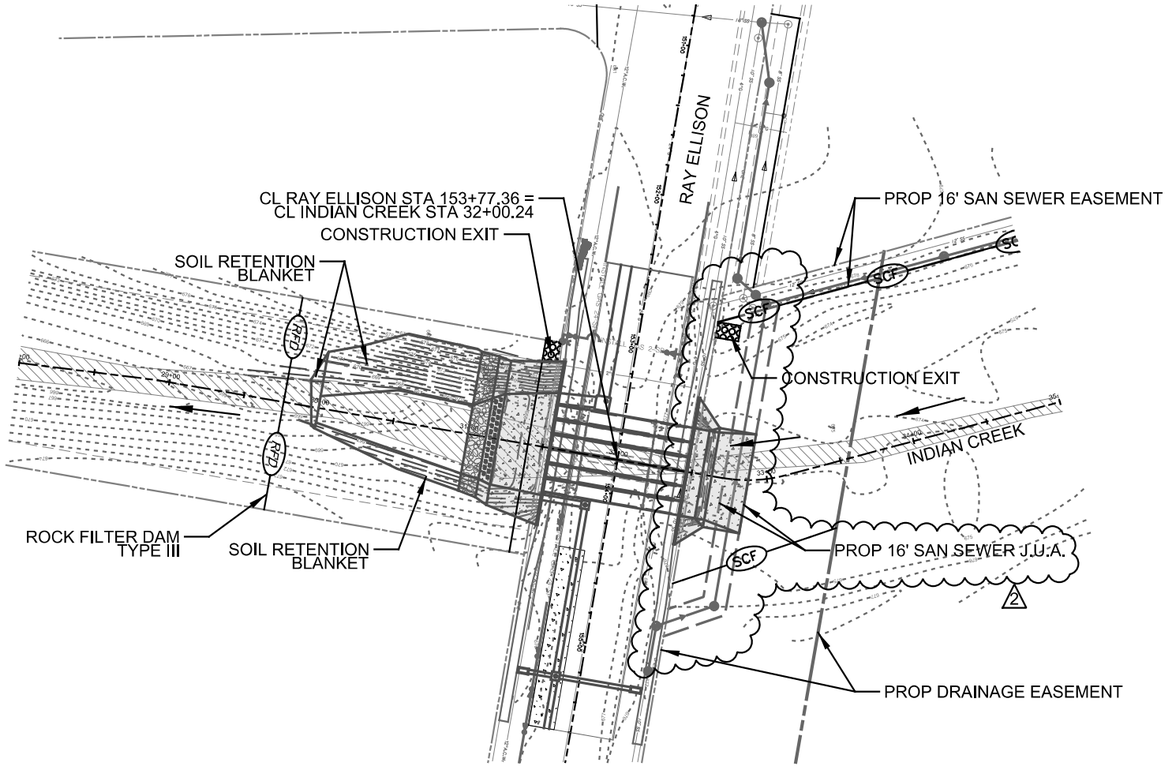
MAESTAS & ASSOCIATES INC.
TBPE REGISTRATION No. : F-333
11550 I.H. 10 WEST
SUITE 350
SAN ANTONIO, TEXAS 78230
(210) 366-1988

CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

RAY ELLISON BLVD LOOP 410 TO OLD PEARSALL RD

SUMMARY OF QUANTITIES
SHEET 1 OF 1

100% SUBMITTAL	PROJECT NO.: 40-00326		DATE: 3/18/2015
DRWN. BY: LF/KG/CG	DSGN. BY: MJM	CHKD. BY: ETM/JPS	SHEET NO.: 6



SCALE
HORZ: 1" = 100'

PLAN VIEW LEGEND

- EXISTING CONTOURS
- PROPOSED CONTOURS
- RIGHT OF WAY
- ORDINARY HIGH WATER MARK
- PROP SAN SEWER EASEMENT
- SCF — SILT FENCE
- RFD — ROCK FILTER DAM
- FLOW ARROW
- CONSTRUCTION EXIT

* SOIL DISTURBANCE IS SHOWN BY LIMITS OF CONSTRUCTION, THE ENTIRE ROADWAY ROW WILL BE DISTURBED. THIS AREA SHALL RECEIVE SOIL STABILIZATION PRACTICES.

STATE OF TEXAS
ERNEST T. MAESTAS
52938
REGISTERED
PROFESSIONAL ENGINEER
3/10/2015

NO	REVISION	DRAWN	APPROVED	DATE
2	ADDENDUM		JPS	3/10/15

MAESTAS & ASSOCIATES INC.
TBPE REGISTRATION No.: F-333
11550 I.H. 10 WEST
SUITE 350
SAN ANTONIO, TEXAS 78230
(210) 366-1988

CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

RAY ELLISON BLVD LOOP 410 TO OLD PEARSALL RD

INDIAN CREEK STORMWATER POLLUTION PREVENTION PLAN LAYOUT

SHEET 1 OF 1

100% SUBMITTAL	PROJECT NO.: 40-00326		DATE: 3/18/2015
DRWN. BY: LF/KG/CG	DSGN. BY: MJM	CHKD. BY: ETM/JPS	SHEET NO.: 7

3/18/2015 4:28:08 PM Z:\Projects\Indian_Creek_Ph_II\ReferenceFiles\Ray Ellison Reconstruction\M024-SW3P-LAY-01.dgn

THE TYPICAL QUALITY OF THE UTILITY INFORMATION SHOWN ON THESE PLANS IS SHOWN IN THE TABLE BELOW. SPECIFIC NOTES ON THE PLAN INDICATE LOCATIONS WHERE THE UTILITY INFORMATION SHOWN IS KNOWN TO FALL SHORT OF OR EXCEED THE STATED TYPICAL QUALITY LEVEL.

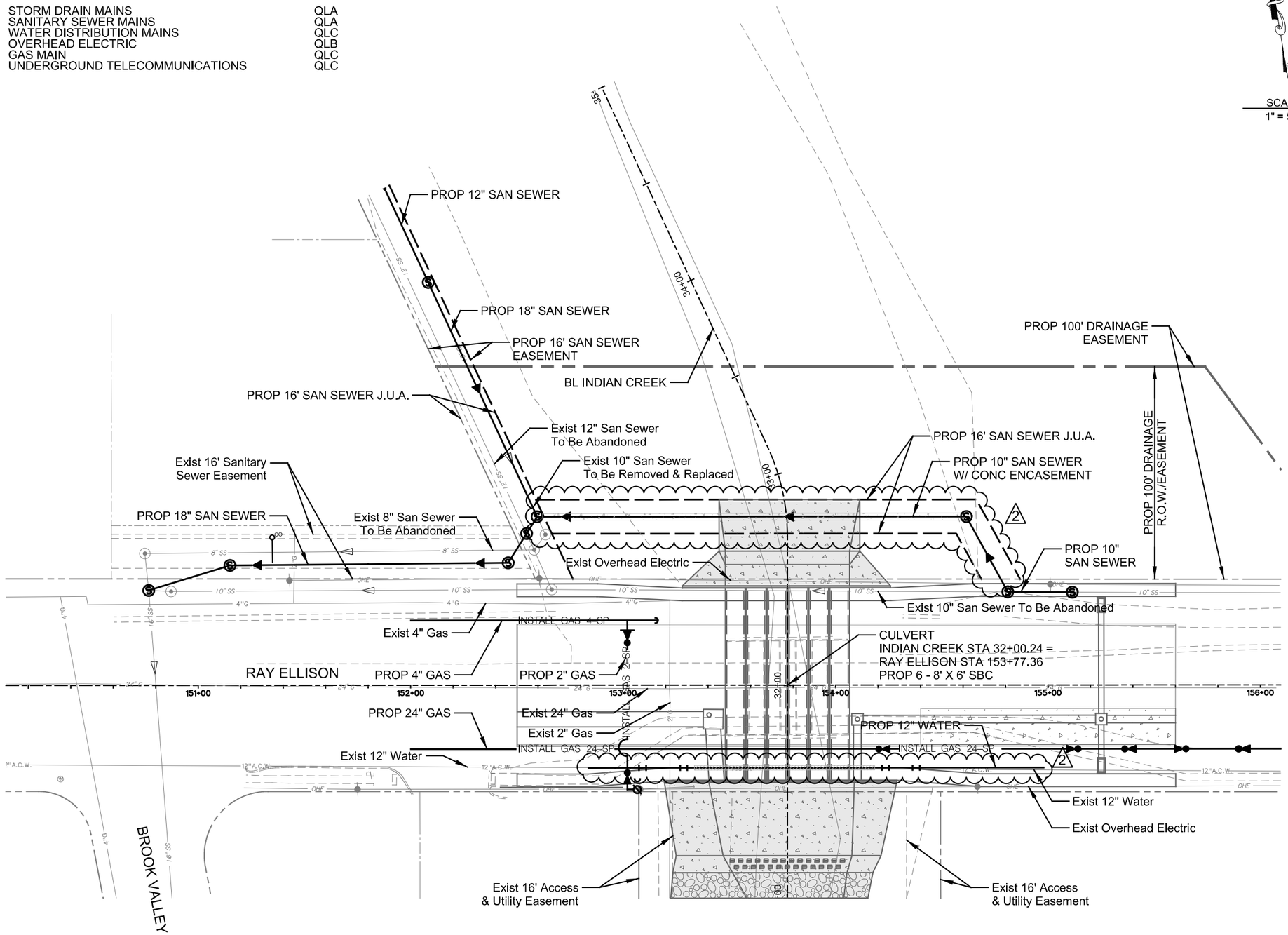
STORM DRAIN MAINS	QLA
SANITARY SEWER MAINS	QLA
WATER DISTRIBUTION MAINS	QLC
OVERHEAD ELECTRIC	QLB
GAS MAIN	QLC
UNDERGROUND TELECOMMUNICATIONS	QLC

SCALE
1" = 50'

PLAN VIEW LEGEND

- PROP STRUCTURES/CHANNEL
- EXIST EDGE OF ROADWAY/GUT
- PROP RIGHT OF WAY
- EXIST APPARENT RIGHT OF WAY
- PROP CONCRETE CURB
- EXIST STORM SEWER
- EXIST GAS LINE — X" G
- EXIST SANITARY SEWER — X" SS
- EXIST WATER — X" W
- EXIST UNDGR TELEPHONE — UG TEL
- EXIST UNDGR ELECTRIC — UE
- EXIST CABLE — CA
- EXIST SAN SEWER MANHOLE
- PROP SANITARY SEWER
- PROP WATER
- PROP GAS
- PROP TELEPHONE — UT
- PROP CONC ENCASEMENT
- PROP CASING
- PROP SAN SEWER MANHOLE
- TEST HOLE LOCATIONS (POTENTIAL CONFLICT)

J.U.A. = JOINT USE AGREEMENT



STATE OF TEXAS
ERNEST T. MAESTAS
52938
REGISTERED
PROFESSIONAL ENGINEER
3/10/2015

NO	REVISION	DRAWN	APPROVED	DATE
2	ADDENDUM		JPS	3/10/15

MAESTAS & ASSOCIATES INC.
TBPE REGISTRATION No.: F-333
11550 I.H. 10 WEST
SUITE 350
SAN ANTONIO, TEXAS 78230
(210) 366-1988

CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

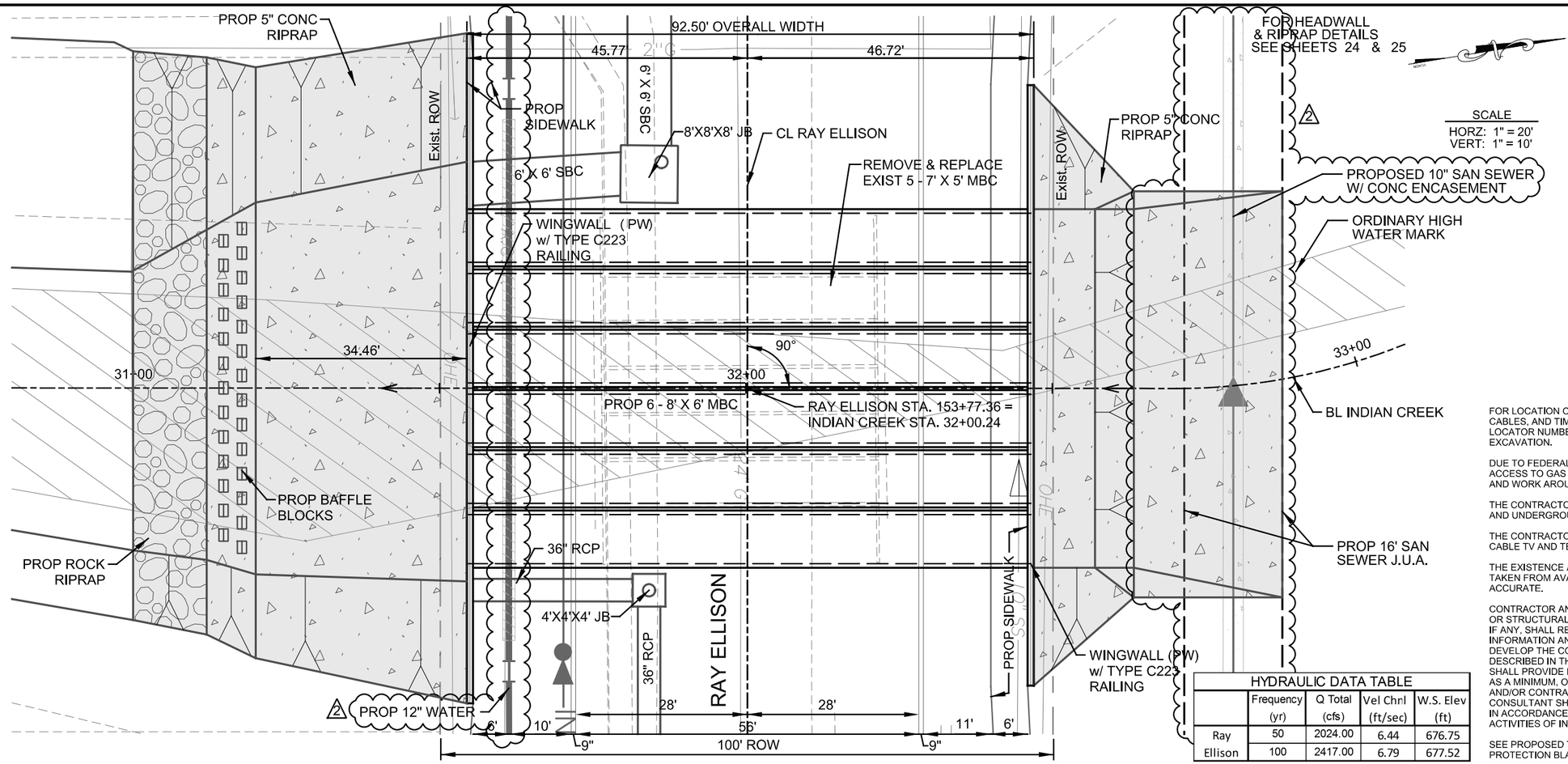
RAY ELLISON BLVD LOOP 410 TO OLD PEARSALL RD

INDIAN CREEK UTILITY LAYOUT

SHEET 1 OF 1

100% SUBMITTAL	PROJECT NO.: 40-00326		DATE: 3/18/2015
DRWN. BY: LF/KG/CG	DSGN. BY: MJM	CHKD. BY: ETM/JPS	SHEET NO.: 10

3/18/2015 4:28:22 PM Z:\Projects\Indian_Creek_Ph_II\ReferenceFiles\Ray Ellison Reconstruction\M024-UTIL-PLN-01.dgn



SCALE
HORZ: 1" = 20'
VERT: 1" = 10'

PLAN VIEW LEGEND

JB = JUNCTION BOX TI = TRAFFIC INLET
J.U.A. = JOINT USE AGREEMENT
PROP STRUCTURES/CHANNEL
EXIST EDGE OF ROADWAY/GUT
PROP RIGHT OF WAY
EXIST APPARENT RIGHT OF WAY
PROP CONCRETE CURB
EXIST STORM SEWER
EXIST GAS LINE — X" G —
EXIST SANITARY SEWER — X" SS —
EXIST WATER — X" W —
EXIST UNDGR TELEPHONE — UT —
EXIST POWER POLE
ORDINARY HIGH WATER MARK
PROP ROCK RIPRAP
PROP 5" CONCRETE RIPRAP

HYDRAULIC DATA TABLE

	Frequency (yr)	Q Total (cfs)	Vel Chnl (ft/sec)	W.S. Elev (ft)
Ray Ellison	50	2024.00	6.44	676.75
	100	2417.00	6.79	677.52

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

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

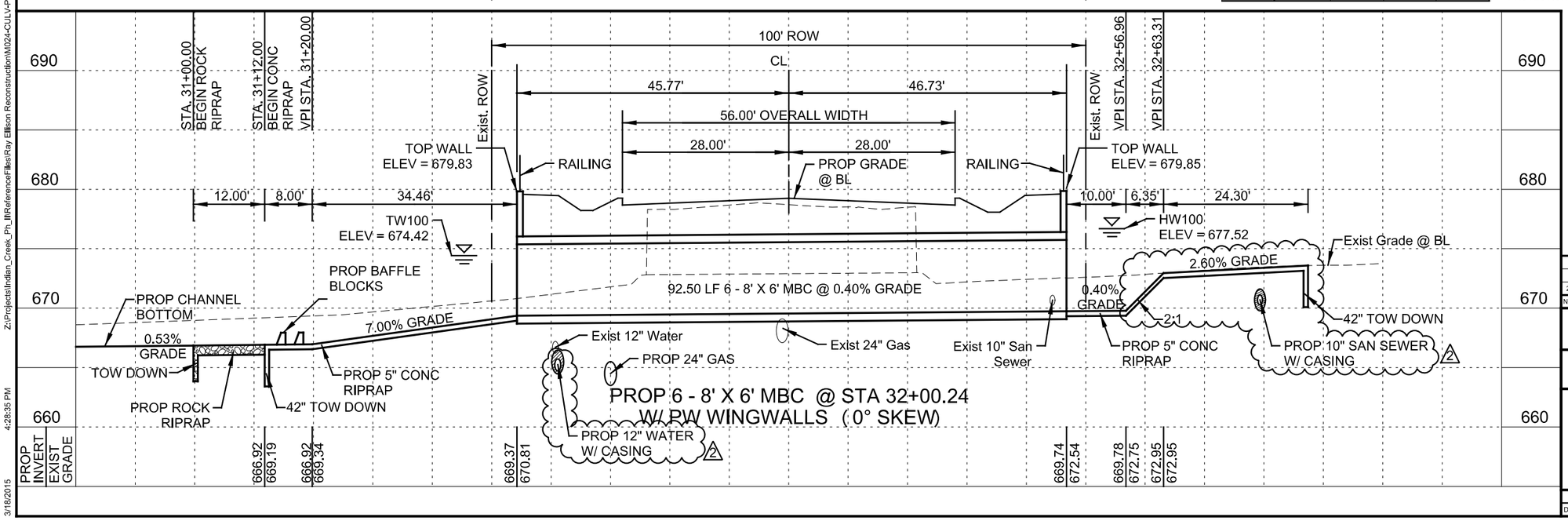
THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING C.P.S. OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES IF ADJACENT TO WORK AREAS.

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

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

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

SEE PROPOSED TYPICAL SECTION SHEETS FOR TOP SOIL AND EROSION PROTECTION BLANKET LOCATIONS.



3/10/2015

NO	REVISION	DRAWN	APPROVED	DATE
2	ADDENDUM		JPS	3/10/15

MAESTAS & ASSOCIATES INC.
TBPE REGISTRATION No.: F-333
11550 I.H. 10 WEST SUITE 350 SAN ANTONIO, TEXAS 78230 (210) 366-1988

CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

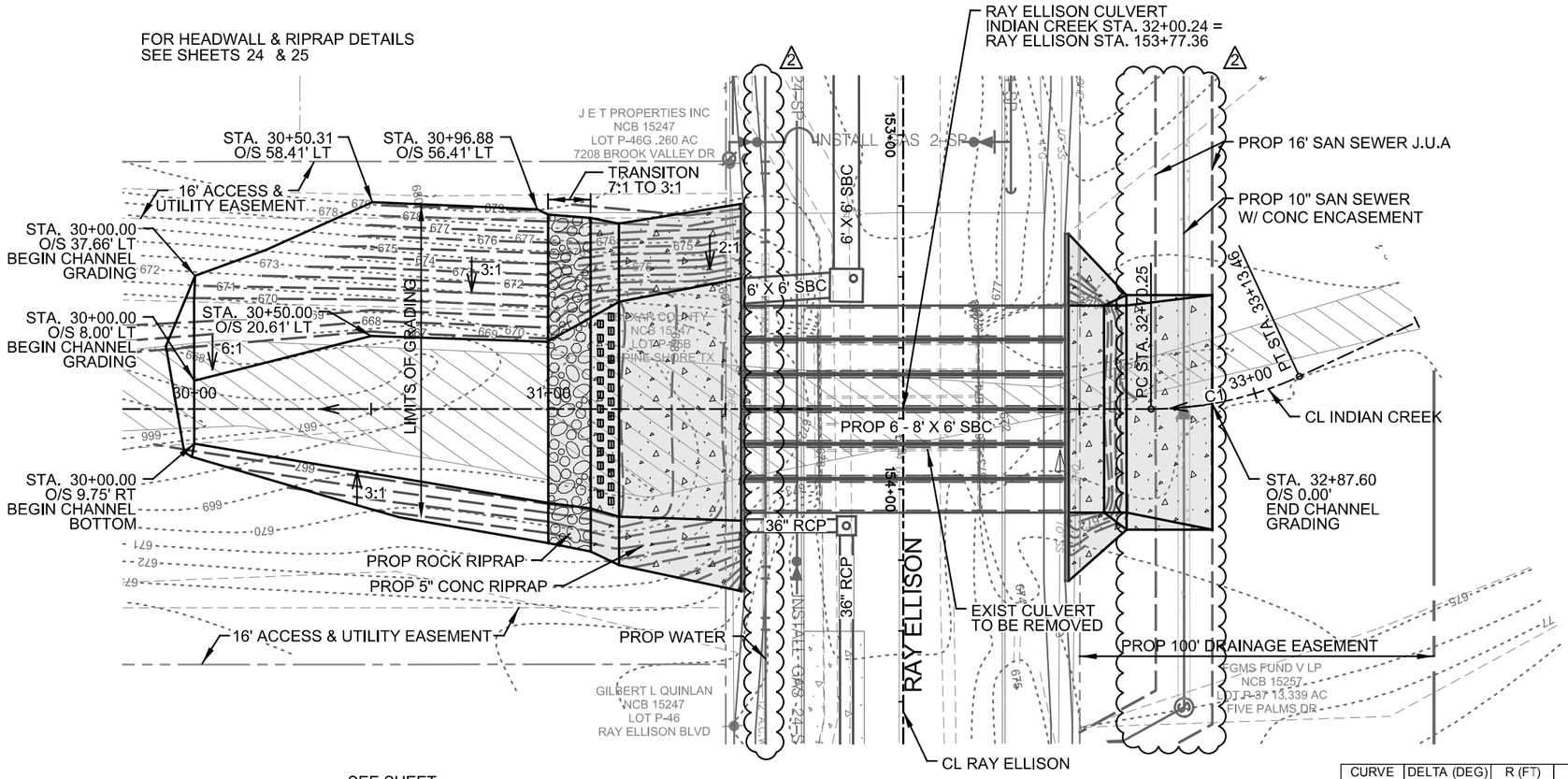
RAY ELLISON BLVD LOOP 410 TO OLD PEARSALL RD

RAY ELLISON CULVERT PLAN & PROFILE

SHEET 1 OF 1

100% SUBMITTAL	PROJECT NO.: 40-00326		DATE: 3/18/2015
DRWN. BY: LF/KG/CG	DSGN. BY: MJM	CHKD. BY: ETM/JPS	SHEET NO.: 20

3/18/2015 4:28:35 PM Z:\Projects\Indian_Creek_Ph_II\Reference Files\Ray Ellison Reconstruction\M024-CULV-PP-RAY_E-01.dgn



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

PLAN VIEW LEGEND

JB = JUNCTION BOX TI = TRAFFIC INLET
J.U.A. = JOINT USE AGREEMENT
PROP STRUCTURES/CHANNEL
EXIST EDGE OF ROADWAY/GUT
PROP RIGHT OF WAY
EXIST APPARENT RIGHT OF WAY
PROP CONCRETE CURB
EXIST STORM SEWER
EXIST GAS LINE — X" G —
EXIST SANITARY SEWER — X" SS —
EXIST WATER — X" W —
EXIST UNDGR TELEPHONE — UT —
EXIST POWER POLE
ORDINARY HIGH WATER MARK
PROP ROCK RIPRAP
PROP 5" CONCRETE RIPRAP

CURVE	DELTA (DEG)	R (FT)	T (FT)	L (FT)	PI STA
C1	24° 45' 09"	100.02	21.96	43.21	32+92.20

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

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

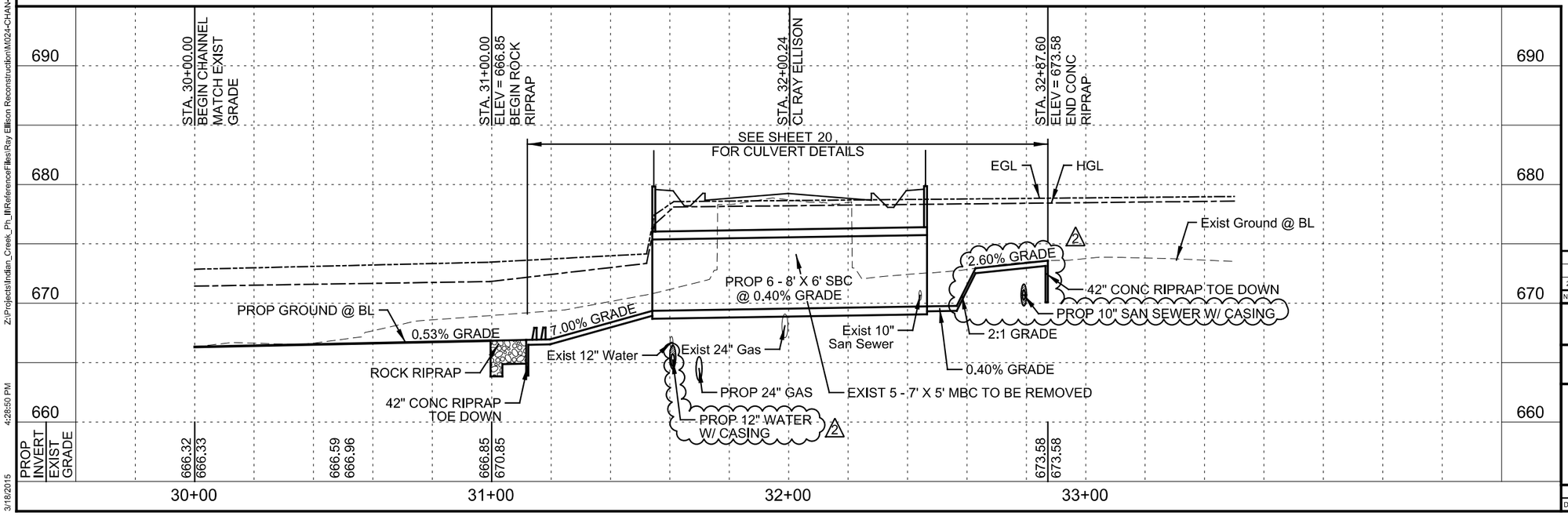
THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING C.P.S. OVERHEAD AND UNDERGROUND ELECTRIC FACILITIES IF ADJACENT TO WORK AREAS.

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

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

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

SEE PROPOSED TYPICAL SECTION SHEETS FOR TOP SOIL AND EROSION PROTECTION BLANKET LOCATIONS.



STATE OF TEXAS
ERNEST T. MAESTAS
52938
REGISTERED
PROFESSIONAL ENGINEER
3/10/2015

NO	REVISION	DRAWN	APPROVED	DATE
2	ADDENDUM		JPS	3/10/15

MAESTAS & ASSOCIATES INC.
TBPE REGISTRATION No.: F-333
11550 I.H. 10 WEST
SUITE 350
SAN ANTONIO, TEXAS 78230
(210) 366-1988

CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

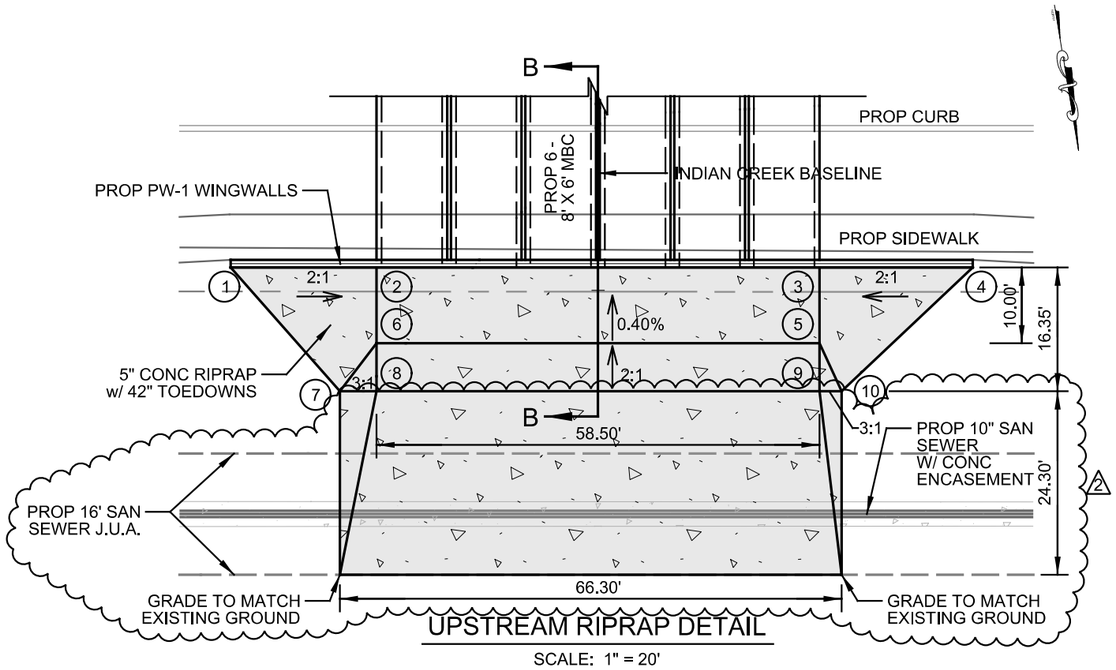
RAY ELLISON BLVD LOOP 410 TO OLD PEARSALL RD

RAY ELLISON CHANNEL PLAN & PROFILE

SHEET 1 OF 1

100% SUBMITTAL	PROJECT NO.: 40-00326	DATE: 3/18/2015
DRWN. BY: LF/KG/CG	DSGN. BY: MJM	CHKD. BY: ETM/JPS	SHEET NO.: 21

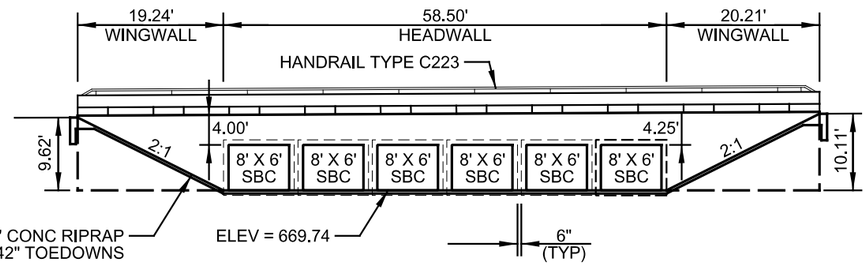
3/18/2015 4:28:50 PM Z:\Projects\Indian_Creek_Ph_II\Reference Files\Ray Ellison Reconstruction\M024-CHAN-PFP-RAY_E-01.dgn



UPSTREAM RIPRAP DETAIL

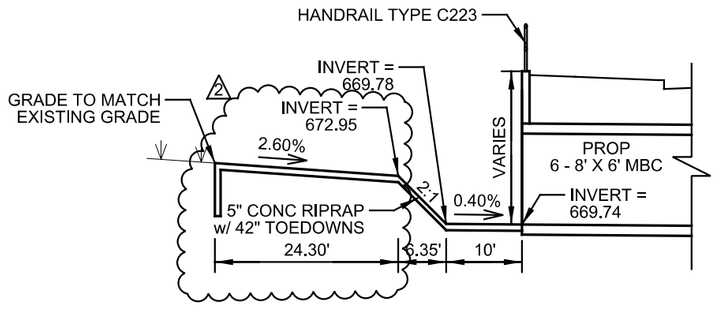
SCALE: 1" = 20'

RAY ELLISON CULVERT - UPSTREAM RIPRAP				
RIPRAP POINT	INDIAN CREEK BL STA	O/S	ELEV	DESCRIPTION
1	32+47.00	48.50' RT	679.36	MATCH BACK OF PROP SIDEWALK
2	32+46.98	29.27' RT	669.74	
3	32+46.95	29.24' LT	669.74	
4	32+46.94	49.47' LT	679.85	MATCH BACK OF PROP SIDEWALK
5	32+56.95	29.25' LT	669.78	
6	32+56.98	29.26' RT	669.78	
7	32+63.32	34.10' RT	674.56	MATCH EXISTING GROUND
8	32+63.32	29.26' RT	672.95	
9	32+63.29	29.25' LT	672.95	
10	32+63.29	32.17' LT	673.92	MATCH EXISTING GROUND



RAY ELLISON CULVERT STA. 32+46.96
HEADWALL ELEVATION UPSTREAM
USE TYPE PW WINGWALL (0° SKEW)
W/ HANDRAIL TYPE C223

REF: PW DETAILS NOT SHOWN ON THIS SHEET
SCALE: 1" = 20'



SECTION B-B

SCALE:
HORZ: 1" = 20'
VERT: 1" = 10'

STATE OF TEXAS
ERNEST T. MAESTAS
52938
REGISTERED
PROFESSIONAL ENGINEER
3/10/2015

NO	REVISION	DRAWN	APPROVED	DATE
2	ADDENDUM		JPS	3/10/15

MAESTAS & ASSOCIATES INC.
TBPE REGISTRATION No.: F-333
11550 I.H. 10 WEST
SUITE 350
SAN ANTONIO, TEXAS 78230
(210) 366-1988

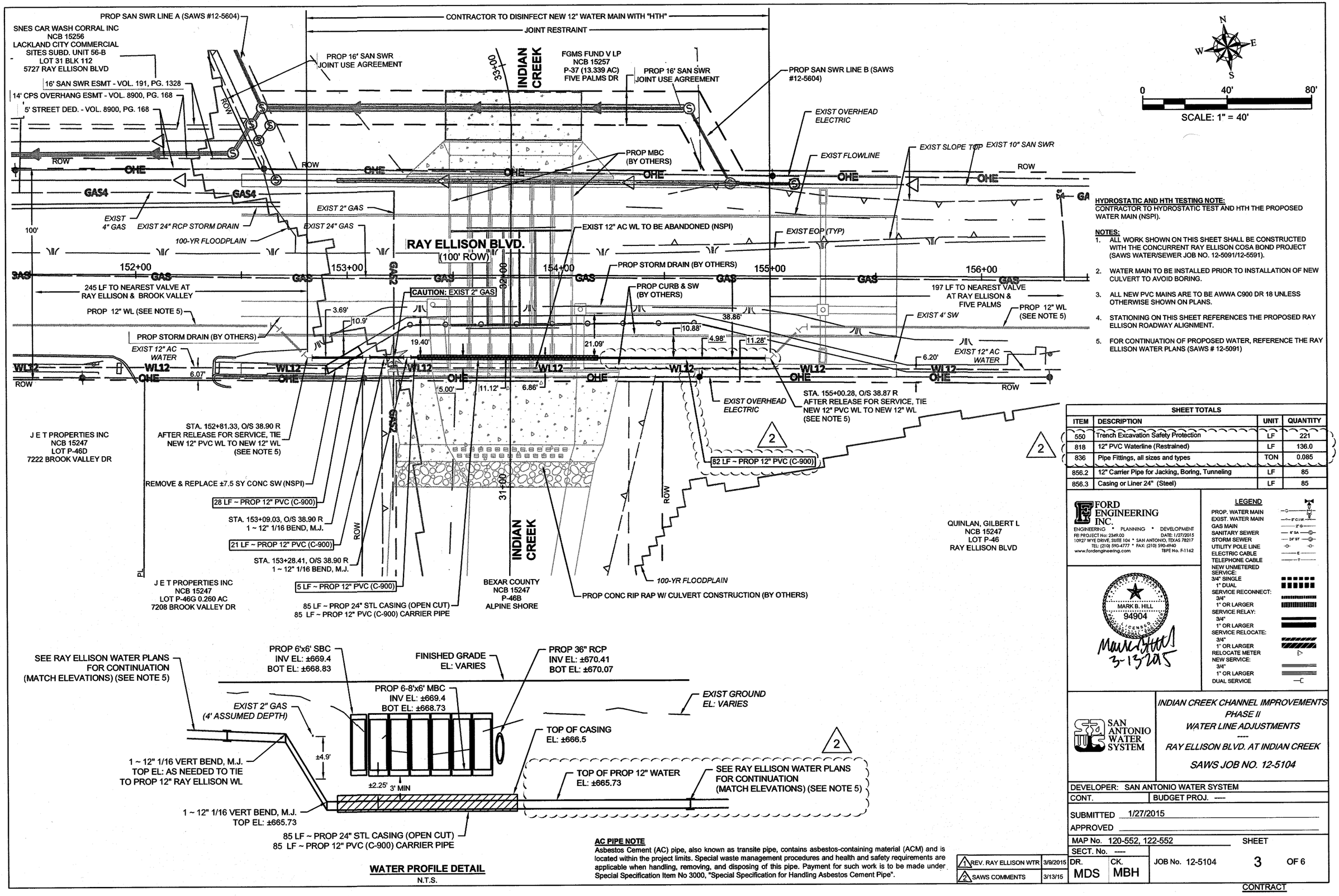
CITY OF SAN ANTONIO
TRANSPORTATION & CAPITAL IMPROVEMENTS

RAY ELLISON BLVD LOOP 410 TO OLD PEARSALL RD

RAY ELLISON CULVERT DETAILS

SHEET 2 OF 2

100% SUBMITTAL	PROJECT NO.: 40-00326		DATE: 3/18/2015
DRWN. BY: LF/KG/CG	DSGN. BY: MJM	CHKD. BY: ETM/JPS	SHEET NO.: 25



HYDROSTATIC AND HTH TESTING NOTE:
CONTRACTOR TO HYDROSTATIC TEST AND HTH THE PROPOSED WATER MAIN (NSPI).

NOTES:
1. ALL WORK SHOWN ON THIS SHEET SHALL BE CONSTRUCTED WITH THE CONCURRENT RAY ELLISON COSA BOND PROJECT (SAWS WATER/SEWER JOB NO. 12-5091/12-5591).
2. WATER MAIN TO BE INSTALLED PRIOR TO INSTALLATION OF NEW CULVERT TO AVOID BORING.
3. ALL NEW PVC MAINS ARE TO BE AWWA C900 DR 18 UNLESS OTHERWISE SHOWN ON PLANS.
4. STATIONING ON THIS SHEET REFERENCES THE PROPOSED RAY ELLISON ROADWAY ALIGNMENT.
5. FOR CONTINUATION OF PROPOSED WATER, REFERENCE THE RAY ELLISON WATER PLANS (SAWS # 12-5091)

SHEET TOTALS

ITEM	DESCRIPTION	UNIT	QUANTITY
550	Trench Excavation Safety Protection	LF	221
818	12" PVC Waterline (Restrained)	LF	136.0
836	Pipe Fittings, all sizes and types	TON	0.085
856.2	12" Carrier Pipe for Jacking, Boring, Tunneling	LF	85
856.3	Casing or Liner 24" (Steel)	LF	85

WATER PROFILE DETAIL
N.T.S.

AC PIPE NOTE
Asbestos Cement (AC) pipe, also known as transite pipe, contains asbestos-containing material (ACM) and is located within the project limits. Special waste management procedures and health and safety requirements are applicable when handling, removing, and disposing of this pipe. Payment for such work is to be made under Special Specification Item No 3000, "Special Specification for Handling Asbestos Cement Pipe".

1	REV. RAY ELLISON WTR	3/9/2015
2	SAWS COMMENTS	3/13/15

FORD ENGINEERING INC.
ENGINEERING • PLANNING • DEVELOPMENT
FB PROJECT No: 2349.00 DATE: 1/27/2015
10927 WYE DRIVE, SUITE 104 • SAN ANTONIO, TEXAS 78217
TEL: (210) 590-4777 • FAX: (210) 590-4940
www.fordengineering.com TBPE No. F-1162

STATE OF TEXAS
MARK B. HILL
94904
LICENSED PROFESSIONAL ENGINEER
3-13-2015

LEGEND
PROP. WATER MAIN
EXIST. WATER MAIN
GAS MAIN
SANITARY SEWER
STORM SEWER
UTILITY POLE LINE
ELECTRIC CABLE
TELEPHONE 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
DUAL SERVICE

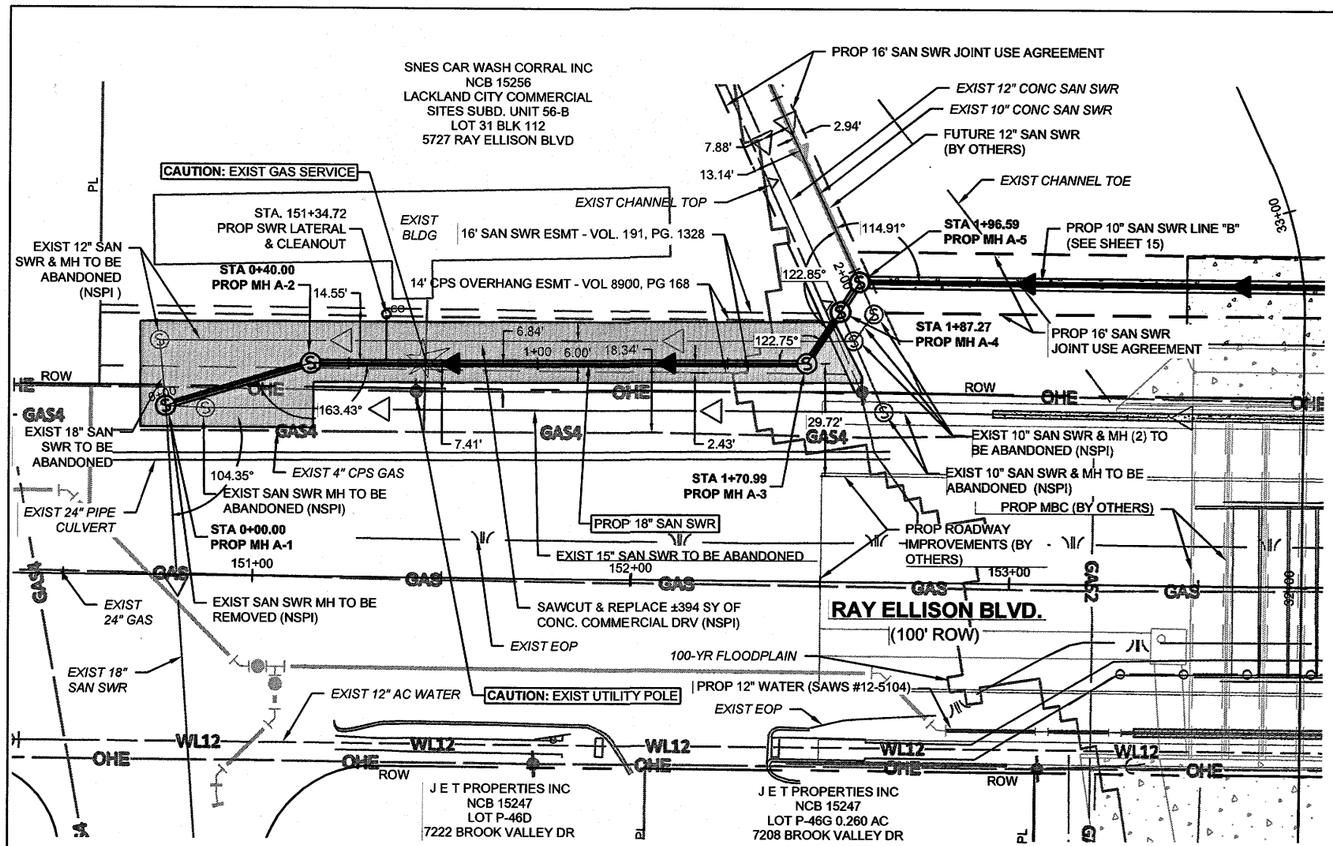
SAN ANTONIO WATER SYSTEM

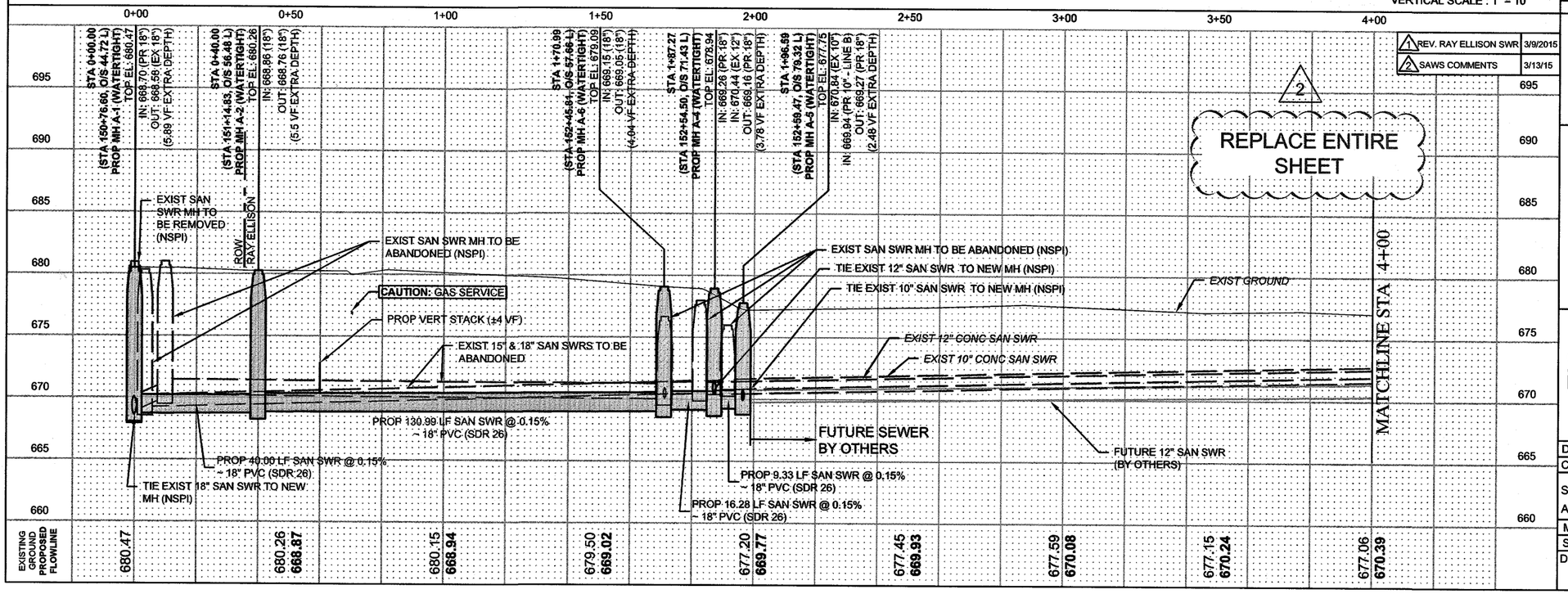
INDIAN CREEK CHANNEL IMPROVEMENTS PHASE II
WATER LINE ADJUSTMENTS

RAY ELLISON BLVD. AT INDIAN CREEK
SAWS JOB NO. 12-5104

DEVELOPER: SAN ANTONIO WATER SYSTEM
CONT. BUDGET PROJ. ----
SUBMITTED 1/27/2015
APPROVED
MAP No. 120-552, 122-552 SHEET
SECT. No. ----
DR. MDS CK. MBH
JOB No. 12-5104 3 OF 6

CONTRACT





HORIZONTAL SCALE : 1" = 40'
VERTICAL SCALE : 1" = 10'

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 site(s) within the project work area in order to implement contractor's trench excavation safety protection systems, programs and/or procedures. The contractor's implementation of the systems, programs and/or procedures shall provide for adequate trench excavation safety protection that complies with as a minimum, OSHA standards for trench excavations, specifically, contractor and/or contractor's independently retained employee of safety consultant shall implement a trench safety program in accordance with OSHA standards covering the presence and activities of individuals working in and around trench excavation.

S.A.W.S. NOTE:
Location and depth of existing water mains and services shown on the plans are approximate only. Actual location and depths must be verified by the contractor 48 hours prior to beginning construction by calling the SAWS water line locator at 233-2009. The contractor should exercise extreme caution when working near existing water facilities and should they be damaged during construction operations, the contractor will be required to reimburse the San Antonio Water System for the total cost to repair or replace the damaged facilities.

AT&T NOTE:
"The existence and location of underground cable indicated on the plans are taken from the best records available and are not guaranteed to be accurate. Contractor to contact the telephone company cable locator 48 hours prior to excavation at 1-800-828-5127. Contractor is to protect and support telephone company plant during construction."

ALL WEATHER NOTE:
All trenching and backfilling should be done in accordance with saws specification No. 804 "Excavation, Trenching and Backfilling" and when in paved streets should be covered with a temporary all weather surface at the end of each work day.

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 192.181, CPS Energy must maintain access to gas valves at all times. The contractor must protect and work around any gas valves that are in the project area.

The contractor will be responsible for protecting CPS Energy overhead and underground electric facilities if adjacent to work areas.

N
W E
S
0 40' 80'
SCALE: 1" = 40'

NOTES:
1. Material types and sizes for existing sanitary sewers are based on the best asbuilt plans and on-the-ground survey information. Where available, pipe materials are based on the field survey and where pipes sizes between the asbuilts and survey data conflict, the sizes shown on the asbuilts govern.
2. Stationing shown within parentheses in the profile view references the proposed Indian Creek Channel alignment unless otherwise noted.
3. "BY OTHERS" refers to work performed under the Indian Creek CoSA Bond Project.
4. Area disturbed by construction to be restored to existing or better conditions (NSPI). Channel improvements to be completed BY OTHERS.
5. All work done as part of this project shall be coordinated with the concurrent Ray Ellison CoSA bond project (SAWS Water/Sewer Job No. 12-5091/12-5591).

SHEET TOTALS (RAY ELLISON BOND PROJECT)

ITEM	DESCRIPTION	UNIT	QUANTITY
550	Trench Excavation Safety Protection	LF	196.59
848	18" PVC Sanitary Sewer Line. (SDR 26) (6'-10')	LF	25.61
848	18" PVC Sanitary Sewer Line. (SDR 26) (10'-14')	LF	170.98
852.1	Sanitary Sewer Manhole (4' Diameter) (0' - 6')	EA	5
852.3	Extra Depth Manholes (4' Diameter) (> 6')	VF	21.69
854	Sanitary Sewer Laterals (6" Dia.)	LF	13
854.1	One-Way Sanitary Sewer Clean-out	EA	1
860	Vertical Stacks	VF	4
862.1	Abandonment of 15" Sanitary Sewer Main	LF	187
862.1	Abandonment of 18" Sanitary Sewer Main	LF	15.5
866	Sewer Main Television Inspection (18"-24")	LF	196.59

FORD ENGINEERING INC.
ENGINEERING * PLANNING * DEVELOPMENT
FEI PROJECT No: 2349.00 DATE: 1/27/2015
10927 WYE DRIVE, SUITE 104 * SAN ANTONIO, TEXAS 78217
TEL: (210) 590-4777 * FAX: (210) 590-4940
www.fordengineering.com TBPE No. F-1162

LEGEND
PROP. WATER MAIN
EXIST. WATER MAIN
EXIST GAS MAIN
EXIST ELECTRIC CABLE
EXIST TELEPHONE CABLE
EXIST SANITARY SEWER
EXIST STORM SEWER
UTILITY POLE LINE
PROP. SAN. SWR. LINE
PROP. SAN. SWR. MANHOLE
PROP. SAN. SWR. CLEANOUT

STATE OF TEXAS
MARK B. HILL
94904
LICENSED PROFESSIONAL ENGINEER
5-13-2015

SAN ANTONIO WATER SYSTEM

INDIAN CREEK CHANNEL IMPROVEMENTS
PHASE II
SANITARY SEWER IMPROVEMENTS
LINE A
STA 0+00 TO 4+00

SAWS JOB NO. 12-5604

DEVELOPER: SAN ANTONIO WATER SYSTEM
CONT. ---- BUDGET PROJ. ----
SUBMITTED 1/27/2015
APPROVED ----
MAP No. 120-554, 122-554
SECT. No. ----
DR. JSM CK. MBH
JOB No. 12-5604
SHEET 5 OF 20
CONTRACT

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 site(s) within the project work area in order to implement contractor's trench excavation safety protection systems, programs and/or procedures. The contractor's implementation of the systems, programs and/or procedures shall provide for adequate trench excavation safety protection that complies with as a minimum, OSHA standards for trench excavations, specifically, contractor and/or contractor's independently retained employee of safety consultant shall implement a trench safety program in accordance with OSHA standards covering the presence and activities of individuals working in and around trench excavation.

S.A.W.S. NOTE:
Location and depth of existing water mains and services shown on the plans are approximate only. Actual location and depths must be verified by the contractor 48 hours prior to beginning construction by calling the SAWS water line locator at 233-2009. The contractor should exercise extreme caution when working near existing water facilities and should they be damaged during construction operations, the contractor will be required to reimburse the San Antonio Water System for the total cost to repair or replace the damaged facilities.

AT&T NOTE:
"The existence and location of underground cable indicated on the plans are taken from the best records available and are not guaranteed to be accurate. Contractor to contact the telephone company cable locator 48 hours prior to excavation at 1-800-828-5127. Contractor is to protect and support telephone company plant during construction."

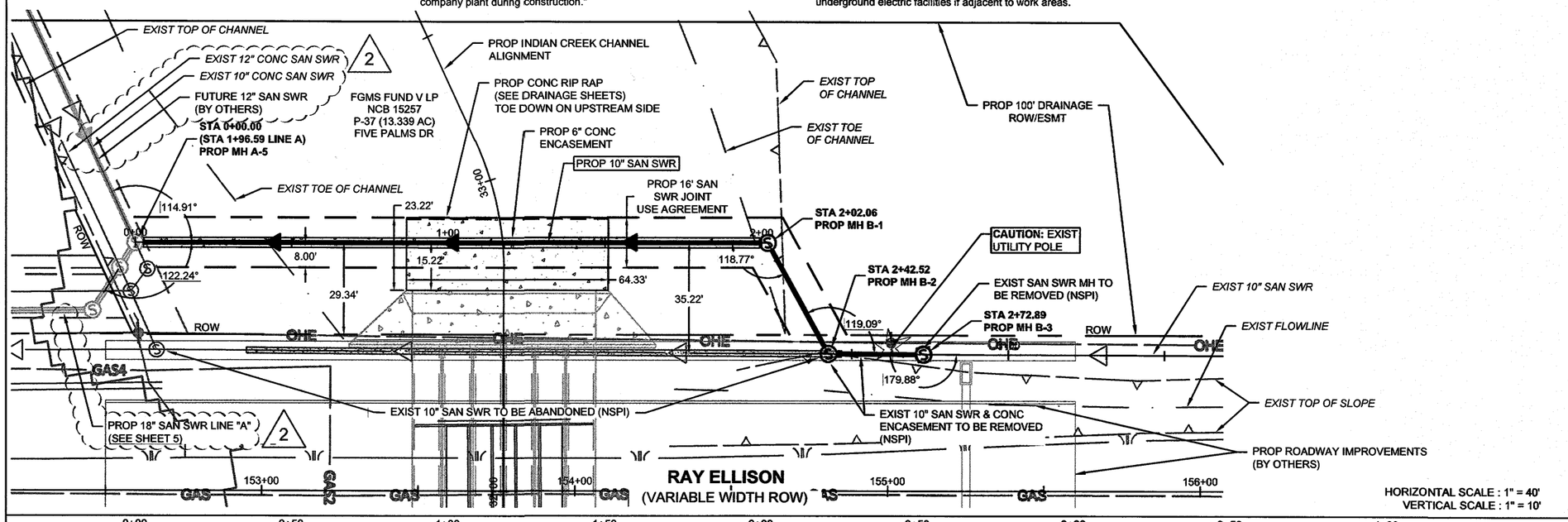
ALL WEATHER NOTE:
All trenching and backfilling should be done in accordance with saws specification No. 804 "Excavation, Trenching and Backfilling" and when in paved streets should be covered with a temporary all weather surface at the end of each work day.

CPS ENERGY NOTE:
Call the Texas state wide one call locator number 1-800-344-8377 48 hours before beginning any excavation.

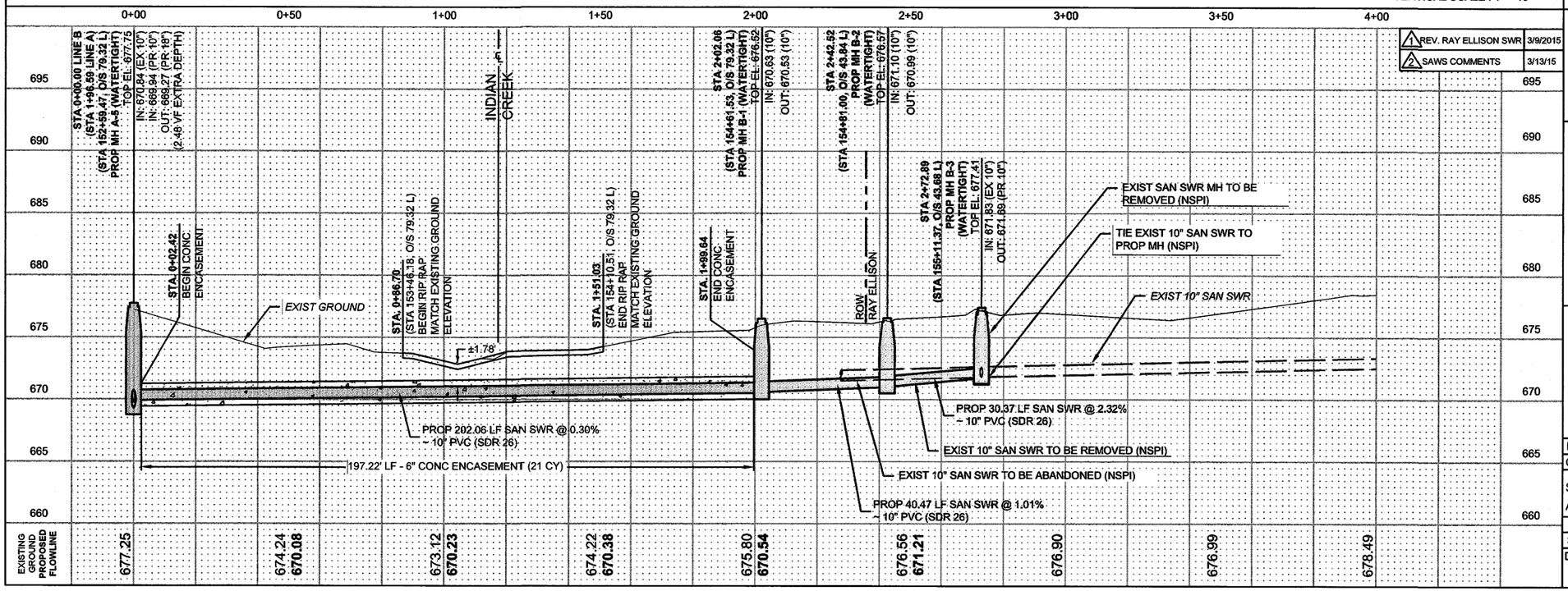
Due to Federal Regulations Title 49, Part 192.181, CPS Energy must maintain access to gas valves at all times. The contractor must protect and work around any gas valves that are in the project area.

The contractor will be responsible for protecting CPS Energy overhead and underground electric facilities if adjacent to work areas.

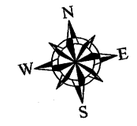
NOTES:
Material types and sizes for existing sanitary sewers are based on the best asbuilt plans and on-the-ground survey information. Where available, pipe materials are based on the field survey and where pipes sizes between the asbuilts and survey data conflict, the sizes shown on the asbuilts govern.



HORIZONTAL SCALE : 1" = 40'
VERTICAL SCALE : 1" = 10'



REV.		DATE
1	RAY ELLISON SWR	3/9/2015
2	SAWS COMMENTS	3/13/15



0 40' 80'
SCALE: 1" = 40'

NOTES:
1. Material types and sizes for existing sanitary sewers are based on the best asbuilt plans and on-the-ground survey information. Where available, pipe materials are based on the field survey and where pipes sizes between the asbuilts and survey data conflict, the sizes shown on the asbuilts govern.
2. Stationing shown within parentheses in the profile view references the proposed Indian Creek Channel alignment unless otherwise noted.
3. "BY OTHERS" refers to work performed under the Indian Creek CoSA Bond Project.
4. Area disturbed by construction to be restored to existing or better conditions (NSPI). Channel improvements to be completed BY OTHERS.

****SEWER PHASING NOTE:**
ALL WORK ASSOCIATED WITH SEWER LINE "B" SHALL BE CONSTRUCTED WITH THE RAY ELLISON COSA BOND PROJECT. STATIONING REFERENCED ON SUCH WORK IS BASED OFF OF THE RAY ELLISON ROADWAY ALIGNMENT. COORDINATE TIE-INS WITH SAWS INSPECTOR.

SHEET TOTALS (RAY ELLISON BOND PROJECT)

ITEM	DESCRIPTION	UNIT	QUANTITY
550	Trench Excavation Safety Protection	LF	272.89
848	10" PVC Sanitary Sewer Line. (SDR 26) (0'-6')	LF	256.09
848	10" PVC Sanitary Sewer Line. (SDR 26) (6'-10')	LF	16.80
852.1	Sanitary Sewer Manhole (4' Diameter) (0' - 6')	EA	3
858	Concrete Encasement, Cradles, Saddles and Collars	CY	21
866	Sewer Main Television Inspection (8"-15")	LF	272.89

FORD ENGINEERING INC.
ENGINEERING • PLANNING • DEVELOPMENT
FB PROJECT No: 2349.00 DATE: 1/27/2015
10927 WYE DRIVE, SUITE 104 * SAN ANTONIO, TEXAS 78217
TEL: (210) 590-4777 * FAX: (210) 590-4940
www.fordengineering.com TBPE No. F-1162

LEGEND
- PROP. WATER MAIN
- EXIST. WATER MAIN
- EXIST GAS MAIN
- EXIST ELECTRIC CABLE
- EXIST TELEPHONE CABLE
- EXIST SANITARY SEWER
- EXIST STORM SEWER
- UTILITY POLE LINE
- PROP. SAN. SWR. LINE
- PROP. SAN. SWR. MANHOLE
- PROP. SAN. SWR. CLEANOUT

SAN ANTONIO WATER SYSTEM

INDIAN CREEK CHANNEL IMPROVEMENTS
PHASE II
SANITARY SEWER IMPROVEMENTS
LINE B
STA 0+00 TO STA 4+00
SAWS JOB NO. 12-5604

DEVELOPER: SAN ANTONIO WATER SYSTEM
CONT. BUDGET PROJ. ----
SUBMITTED 1/27/2015
APPROVED
MAP No. 120552, 122552, 120554, 122554
SECT. No. SECTION
DR. JSM CK. MBH
JOB No. 12-5604
SHEET 15 OF 20

CONTRACT

H:\CIV_PROJ\234900 Indian Creek Phase II - SAWS Water & Sewer Adjustments\dwg\234900 SEWER_P&P.dwg, 15 STA 0+00 to STA 4+00, 3/13/2015 11:36:11 AM, 1:1

City of San Antonio
TRANSPORTATION AND CAPITAL IMPROVEMENTS

Note: Addenda Acknowledgement Form for Addendum 2 is attached herein. This form must be signed and submitted with the bid package.

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

SPECIFICATIONS FOR CONSTRUCTION OF **Ray Ellison (Loop 410 to Old Pearsall Road) Project No. 40-00312**

FOR WHICH BIDS WILL BE OPENED ON **Tuesday, March 31, 2015 @ 2 PM CST**

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

Company Name: _____

Address: _____

City/State/Zip Code: _____

Date: _____

_____
Signature

_____
Print Name/Title