

2019 SMP PACKAGE I (AVENIDA PRIMA, LA AVENTURA, & LA BAHIA) Solicitation Number: CO-00201

Job No.: 18-5008 and 18-5508

ADDENDUM NO. 1 August 14, 2018

To Bidder of Record:

This addendum, applicable to work referenced above, is an amendment to the bid proposal, plans and specifications and as such will be a part of and included in the Contract Documents. Acknowledge receipt of this addendum by entering the Addendum number and issue date on the space provided in submitted copies of the bid proposal.

RESPONSES TO QUESTIONS

- 1. The sewer laterals will need Hot Mix Asphaltic Pavement B&D as part of the pavement restoration. Will this be paid for under the appropriate bid items 206 & 205.4?
 - Per Item 854.6, pavement restoration of the sewer laterals is inclusive to Specification Item 854.
- 2. Proposal items 12w,13W & 14W call for PVC Waterline "Restrained". Are ALL joints to be restrained, or only as tagged(RL=X')?
 - Joints are to be restrained per RL restraint lengths noted on the plans and in accordance with SAWS Standard Specification 839.

CHANGES TO THE SPECIFICATIONS

1. Due to an update in **the General Wage Decision for Building Construction Type**, remove the building wage decision document from the solicitation in entirety and replace with the revised version attached (rev. 08/03/2018, General Decision Number TX180280). This version should be utilized by the awarded contractor for the project.

CHANGES TO THE PLANS

- 1. DELETE **Sheet 8 of 14** of the SEWER PLANS in its entirety and REPLACE with the attached **Sheet 8 of 14**, dated 7/27/18. Sheet 8 has been revised to show updated tree species and/or location.
- 2. DELETE **Sheet 9 of 14** of the SEWER PLANS in its entirety and REPLACE with the attached **Sheet 9 of 14**, dated 7/27/18. Sheet 9 has been revised to show updated tree protection table and tree general note 13.
- **3.** DELETE **Sheet 14 of 14** of the SEWER PLANS in its entirety and REPLACE with the attached **Sheet 14 of 14**, dated 7/27/18. Sheet 14 has been revised to show updated tree protection table and tree general note 13.
- 4. DELETE **Sheet 9 of 29** of the WATER PLANS in its entirety and REPLACE with the attached **Sheet 9 of 29**, dated 7/27/18. Sheet 9 has been revised to show updated tree species and/or location.
- 5. DELETE **Sheet 10 of 29** of the WATER PLANS in its entirety and REPLACE with the attached **Sheet 10 of 29**, dated 7/27/18. Sheet 10 has been revised to show updated tree protection table and tree general note 13.
- 6. DELETE **Sheet 14 of 29** of the WATER PLANS in its entirety and REPLACE with the attached **Sheet 14 of 29**, dated 7/27/18. Sheet 14 has been revised to show updated tree species and/or location.
- 7. DELETE **Sheet 15 of 29** of the WATER PLANS in its entirety and REPLACE with the attached **Sheet 15 of 29**, dated 7/27/18. Sheet 15 has been revised to show updated tree species and/or location.
- **8.** DELETE **Sheet 19 of 29** of the WATER PLANS in its entirety and REPLACE with the attached **Sheet 19 of 29**, dated 7/27/18. Sheet 19 has been revised to show updated tree species and/or location.

- 9. DELETE **Sheet 22 of 29** of the WATER PLANS in its entirety and REPLACE with the attached **Sheet 22 of 29**, dated 7/27/18. Sheet 22 has been revised to show updated tree protection table and tree general note 13.
- **10.** DELETE **Sheet 26 of 29** of the WATER PLANS in its entirety and REPLACE with the attached **Sheet 26 of 29**, dated 7/27/18. Sheet 26 has been revised to show updated tree species and/or location.
- **11.** DELETE **Sheet 28 of 29** of the WATER PLANS in its entirety and REPLACE with the attached **Sheet 28 of 29**, dated 7/27/18. Sheet 28 has been revised to show updated tree protection table and tree general note 13.

END OF ADDENDUM

This Addendum is twenty (20) page(s) in its entirety.

_ Steven H. Thai, PE
Project Engineer
BGE, Inc.
TBPE Registration No. F-1046



General Decision Number: TX180280 08/03/2018 TX280

Superseded General Decision Number: TX20170280

State: Texas

Construction Type: Building

County: Bexar County in Texas.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.35 for calendar year 2018 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.35 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2018. The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Modification	Number	Publication	Date
0		01/05/2018	
1		01/12/2018	
2		03/23/2018	
3		04/20/2018	
4		07/06/2018	
5		08/03/2018	

ASBE0087-014 01/01/2018

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR (Duct, Pipe and Mechanical System Insulation)	.\$ 22.72	10.02
BOIL0074-003 01/01/2017		
	Rates	Fringes
BOILERMAKER	.\$ 28.00	22.35
ELEC0060-003 06/01/2016		

Rates Fringes

ELECTRICIAN (Communication Technician Only)	.\$ 21.57	9%+4.65			
ELEC0060-004 06/01/2018					
	Rates	Fringes			
ELECTRICIAN (Excludes Low Voltage Wiring)	.\$ 28.30	13%+5.05			
ELEV0081-001 01/01/2018					
	Rates	Fringes			
ELEVATOR MECHANIC	.\$ 39.32	32.645+a+b			
FOOTNOTES: A. 6% under 5 years based on regular hourly rate for all hours worked. 8% over 5 years based on regular hourly rate for all hours worked. B. Holidays: New Year's Day; Memorial Day; Independence Day;					
Labor Day; Thanksgiving Day; F Christmas Day; and Veterans Da	_	nksgiving Day;			
ENGI0450-002 04/01/2014					
	Rates	Fringes			
POWER EQUIPMENT OPERATOR Cranes	.\$ 34.85	9.85			
IRON0066-013 06/01/2017					
	Rates	Fringes			
IRONWORKER, STRUCTURAL	.\$ 21.55	6.73			
IRON0084-011 06/01/2017					
	Rates	Fringes			
IRONWORKER, ORNAMENTAL		7.12			
PLUM0142-009 07/01/2017					
	Rates	Fringes			
HVAC MECHANIC (HVAC Electrical Temperature					
Control Installation Only) HVAC MECHANIC (HVAC Unit	.\$ 30.25	11.80			
<pre>Installation Only)</pre>	.\$ 30.25	11.80			
Pipe Installation)	.\$ 30.25	11.80			

PLUMBER (Excludes HVAC Pipe Installation)	\$ 30.25	11.80
SFTX0669-002 04/01/2017		
	Rates	Fringes
SPRINKLER FITTER (Fire Sprinklers)	\$ 29.03	15.84
* SHEE0067-004 04/01/2018		
	Rates	Fringes
Sheet metal worker Excludes HVAC Duct Installation HVAC Duct Installation Onl SUTX2014-006 07/21/2014	y.\$ 26.10	15.29 15.25
	Rates	Fringes
BRICKLAYER	\$ 22.15	0.00
CARPENTER (Acoustical Ceiling Installation Only)	\$ 17.83	0.00
CARPENTER (Form Work Only)	\$ 13.63	0.00
CARPENTER, Excludes Acoustical Ceiling Installation, Drywall Hanging, Form Work, and Metal Stud Installation		4.17
		0.00
CEMENT MASON/CONCRETE FINISHER. DRYWALL FINISHER/TAPER		5.30
DRYWALL HANGER AND METAL STUD	9 13.81	0.00
INSTALLER	\$ 15.18	0.00
ELECTRICIAN (Low Voltage Wiring Only)	\$ 20.39	3.04
IRONWORKER, REINFORCING	\$ 12.27	0.00
LABORER: Common or General	\$ 10.75	0.00
LABORER: Mason Tender - Brick.	\$ 11.88	0.00
LABORER: Mason Tender - Cement/Concrete	\$ 12.00	0.00

LABORER: Pipelayer \$ 11.00	0.00				
LABORER: Roof Tearoff\$ 11.28	0.00				
LABORER: Landscape and Irrigation\$ 8.00 0	.00				
OPERATOR: Backhoe/Excavator/Trackhoe\$ 15.98 0	0.00				
OPERATOR: Bobcat/Skid Steer/Skid Loader\$ 14.00 0	0.00				
OPERATOR: Bulldozer\$ 14.00	0.00				
OPERATOR: Drill\$ 14.50	0.00				
OPERATOR: Forklift\$ 12.50	0.00				
OPERATOR: Grader/Blade\$ 23.00 5	5.07				
OPERATOR: Loader\$ 12.79	0.00				
OPERATOR: Mechanic\$ 18.75	5.12				
OPERATOR: Paver (Asphalt, Aggregate, and Concrete)\$ 16.03	.00				
OPERATOR: Roller\$ 12.00	0.00				
PAINTER (Brush, Roller and Spray), Excludes Drywall					
	0.00				
	0.00				
TILE SETTER\$ 14.94 0	0.00				
TRUCK DRIVER: Dump Truck\$ 12.39	.18				
TRUCK DRIVER: Flatbed Truck\$ 19.65	3.57				
TRUCK DRIVER: Semi-Trailer Truck\$ 12.50	.00				
TRUCK DRIVER: Water Truck\$ 12.00 4	.11				

WELDERS - Receive rate prescribed for craft performing operation to which welding is incidental.

Note: Executive Order (EO) 13706, Establishing Paid Sick Leave for Federal Contractors applies to all contracts subject to the

Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2017. If this contract is covered by the EO, the contractor must provide employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at www.dol.gov/whd/govcontracts.

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than "SU" or "UAVG" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that

no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

WAGE DETERMINATION APPEALS PROCESS

- 1.) Has there been an initial decision in the matter? This can be:
- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations Wage and Hour Division U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

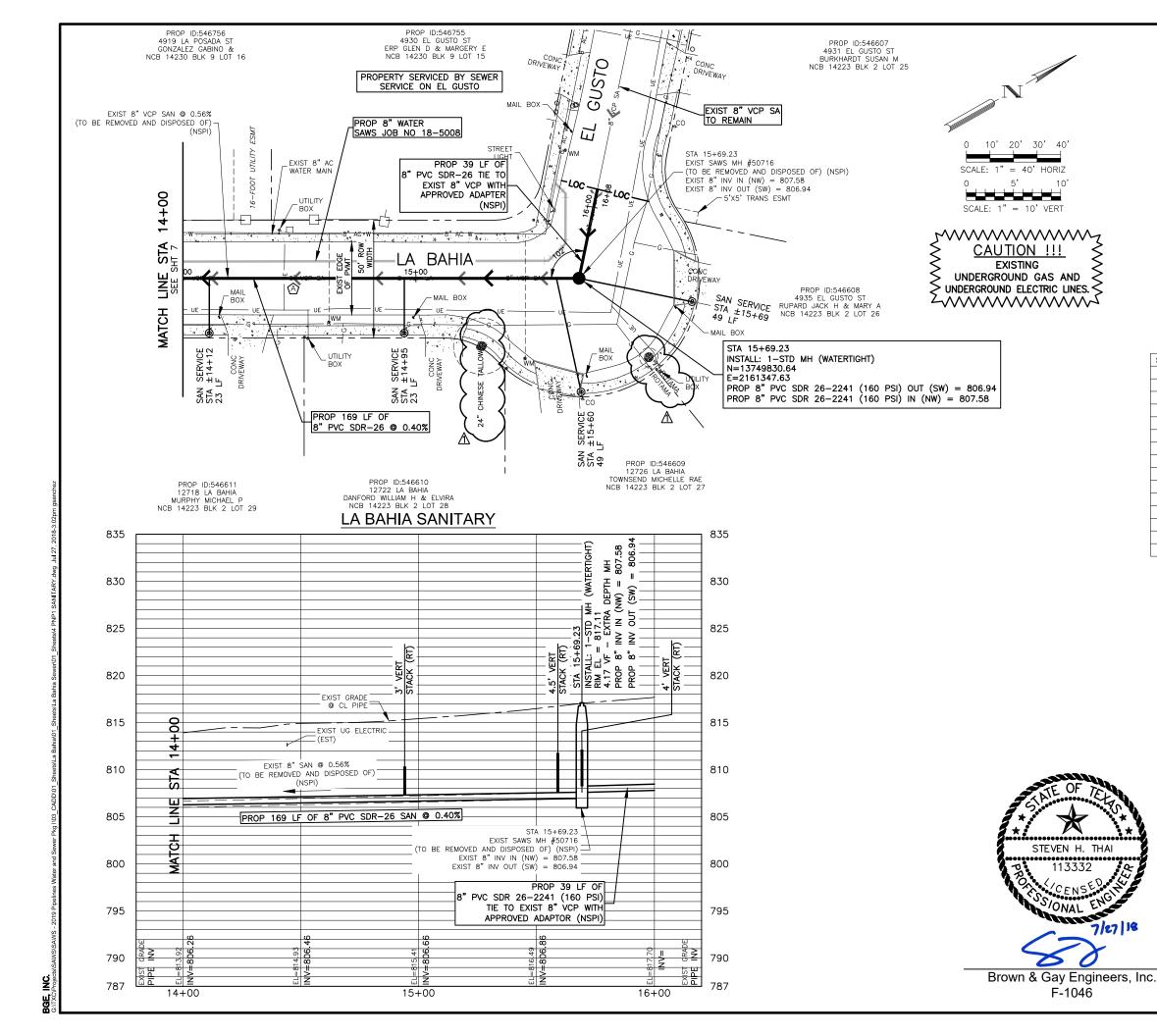
The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board U.S. Department of Labor 200 Constitution Avenue, N.W. Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

END OF GENERAL DECISION



7/27/18

- 1. LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.
- CONTRACTOR SHALL RESTORE IRRIGATION SYSTEM TO ORIGINAL OR BETTER CONDITION IF DAMAGED DURING CONSTRUCTION (NSPI).
- 3. CONTRACTOR SHALL REPAIR AND/OR REPLACE EXISTING MAIL BOXES TO ORIGINAL OR BETTER CONDITION IF DAMAGED DURING CONSTRUCTION (NSPI).

 4. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING SEWERLINE AS REQUIRED FOR THE
- INSTALLATION OF PROPOSED SEWERLINE AND MANHOLES (NSPI).

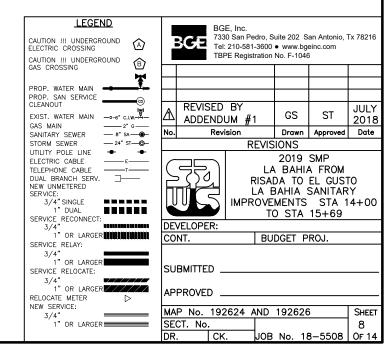
TRENCH EXCAVATION SAFETY PROTECTION:

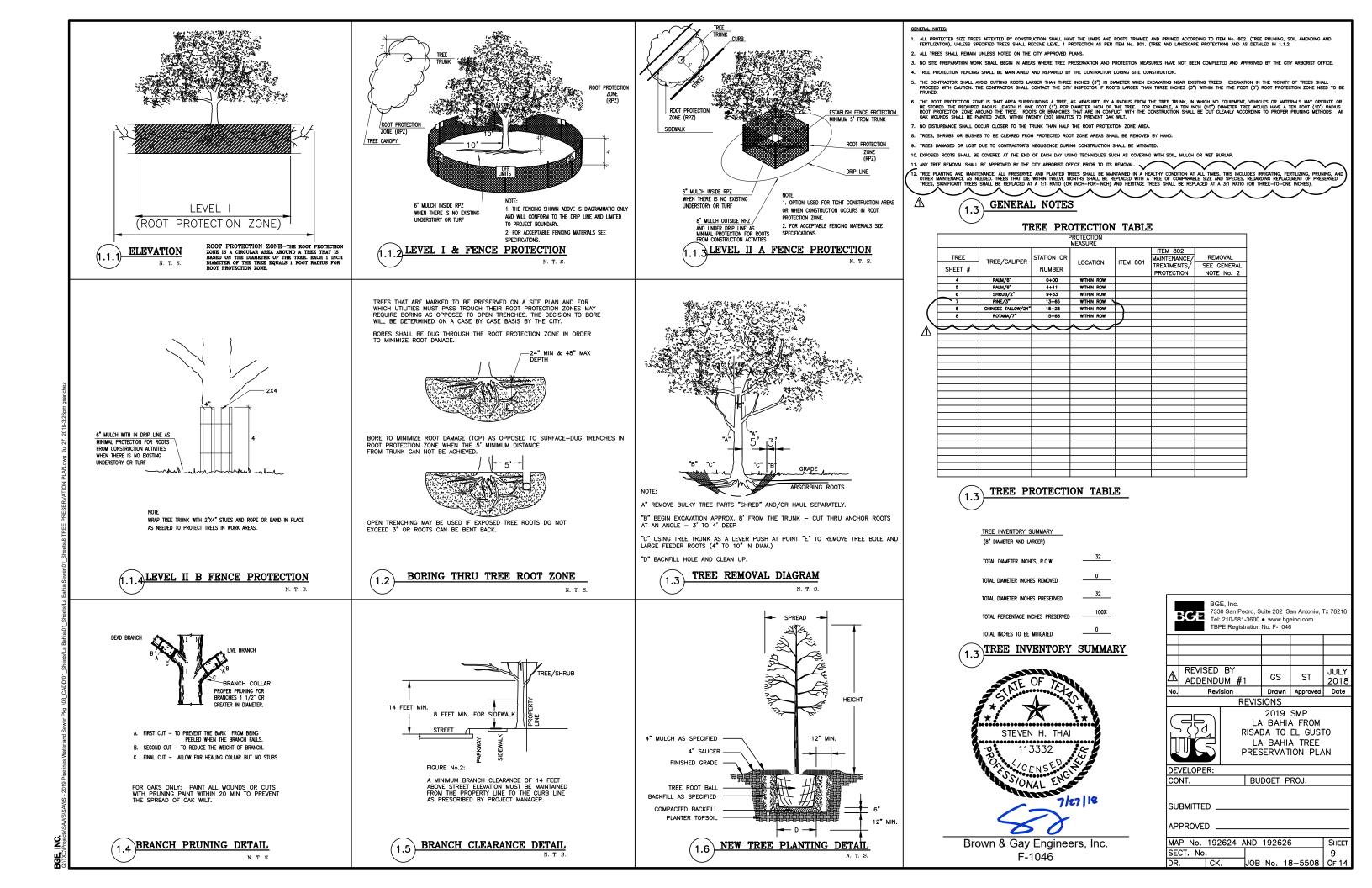
CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED **EMPLOYEE** STRUCTURE/DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTORS IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH, AS A MINIMUM, OSHA STANDARDS FOR TRENCH EXCAVATIONS. SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATION.

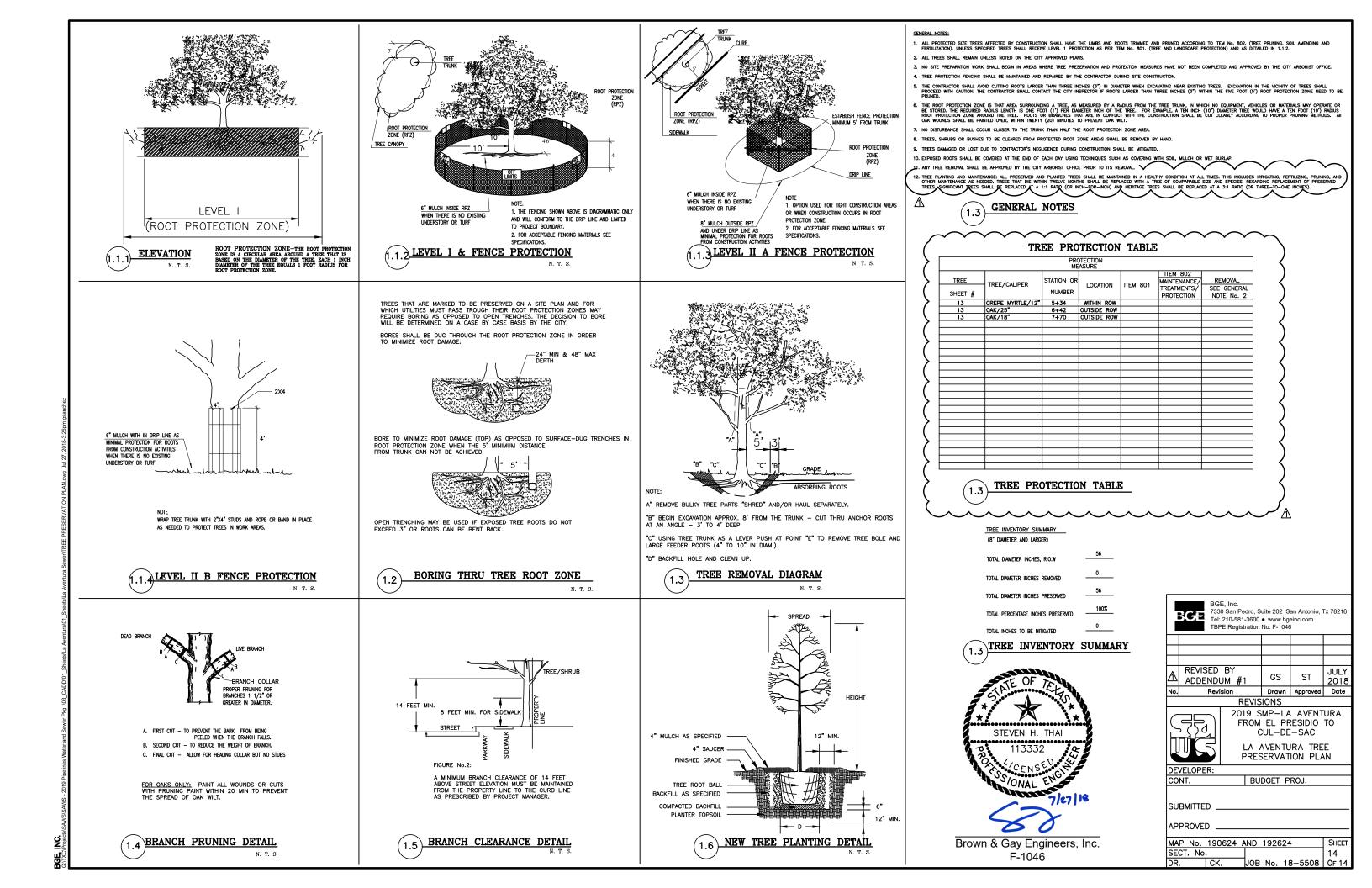
TREE PROTECTION NOTE:

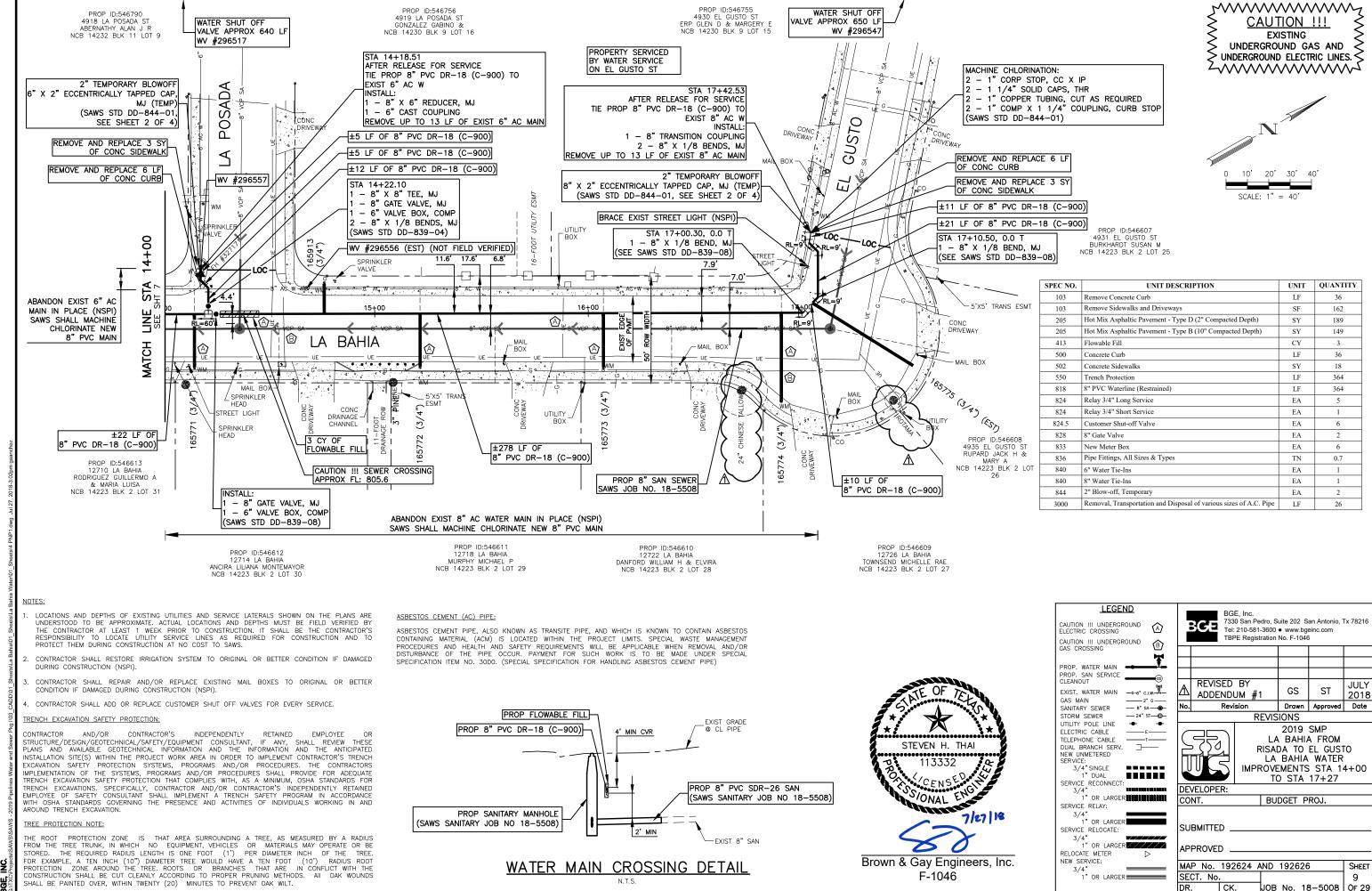
THE ROOT PROTECTION ZONE IS THAT AREA SURROUNDING A TREE, AS MEASURED BY A RADIUS FROM THE TREE TRUNK, IN WHICH NO EQUIPMENT, VEHICLES OR MATERIALS MAY OPERATE OR BE STORED. THE REQUIRED RADIUS LENGTH IS ONE FOOT (1') PER DIAMETER INCH OF THE TREE. FOR EXAMPLE, A TEN INCH (10") JAMETER TREE WOULD HAVE A TEN FOOT (10") RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES THAT ARE IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. All OAK WOUNDS SHALL BE PAINTED OVER, WITHIN TWENTY (20) MINUTES TO PREVENT OAK WILT.

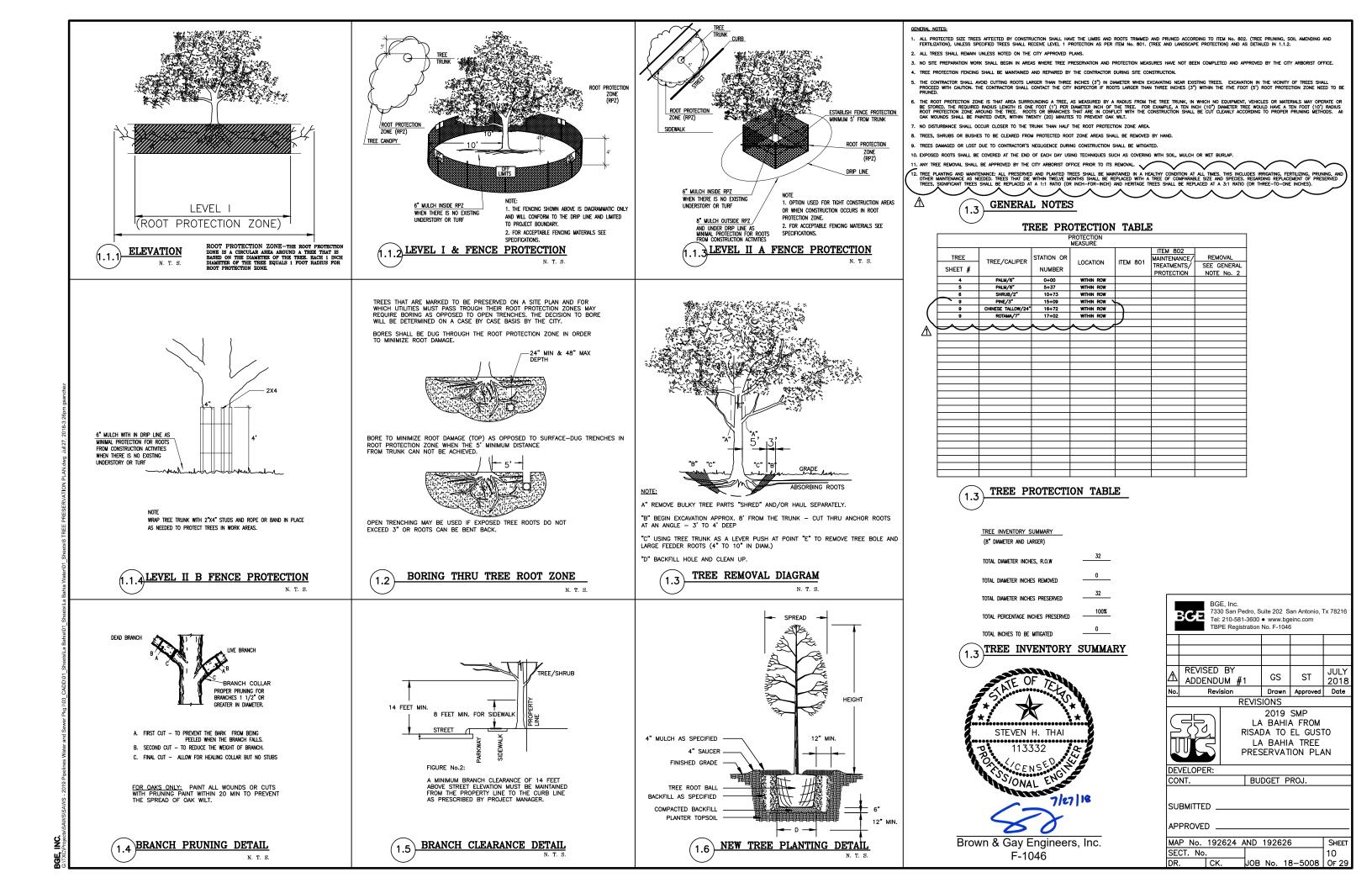
SPEC NO.	UNIT DESCRIPTION	UNIT	QUANTITY
103	Remove Concrete Curb	LF	18
103	Remove Sidewalks and Driveways	SF	522
205	Hot Mix Asphaltic Pavement, Type D (2" Compacted Depth)	SY	108
205	Hot Mix Asphaltic Pavement, Type B (10" Compacted Depth)	SY	85
500	Concrete Curb	LF	18
502	Concrete Sidewalks and Driveways	SY	58
550	Trench Protection	LF	208
848	8" PVC Gravity Sanitary Sewer Pipe (SDR 26-2241, 160 psi) (All Depths)	LF	208
852	Sanitary Sewer Manhole (0'-6')	EA	1
852	Extra Depth Manholes (greater than 6')	VF	4
854	Sanitary Sewer Laterals, (SDR 26, ASTM 2241, 160 psi)	LF	144
854	Two-Way Sanitary Sewer Clean-out	EA	4
860	Vertical Stacks	VF	11.5
866	Pre Sewer Main Television Inspection (6"-12")	LF	208
866	Post Sewer Main Television Inspection (8"-12")	LF	208

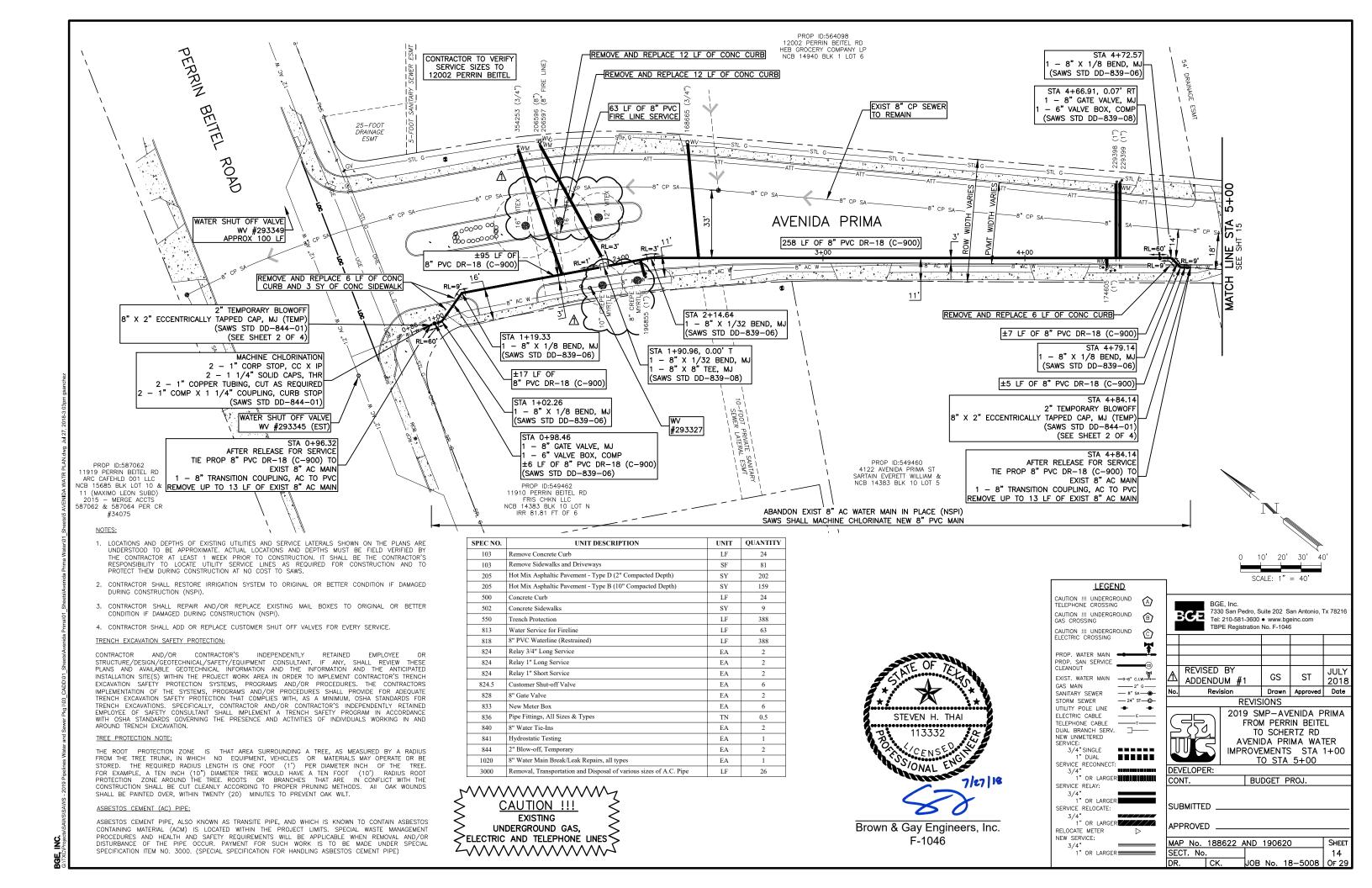


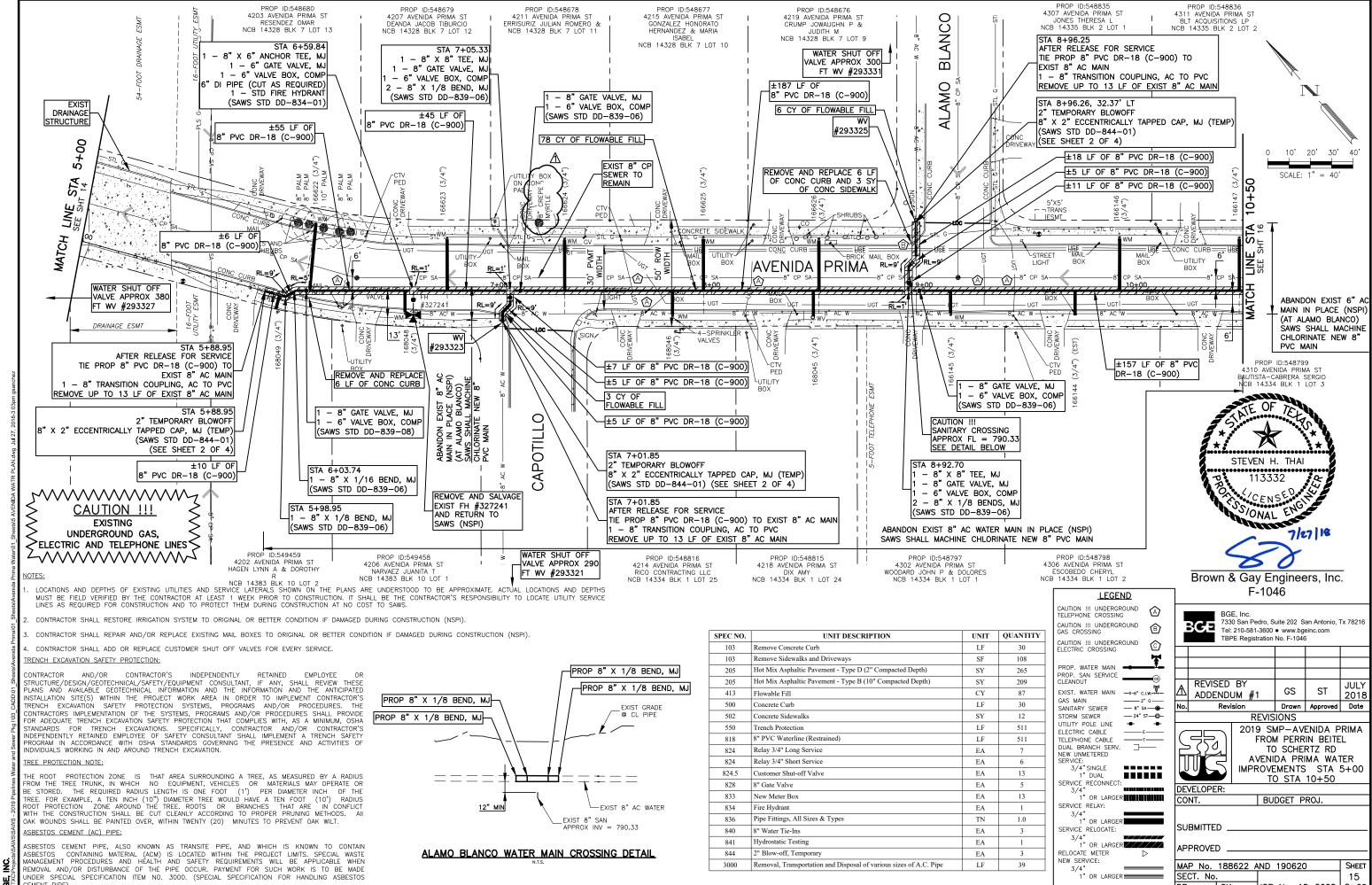


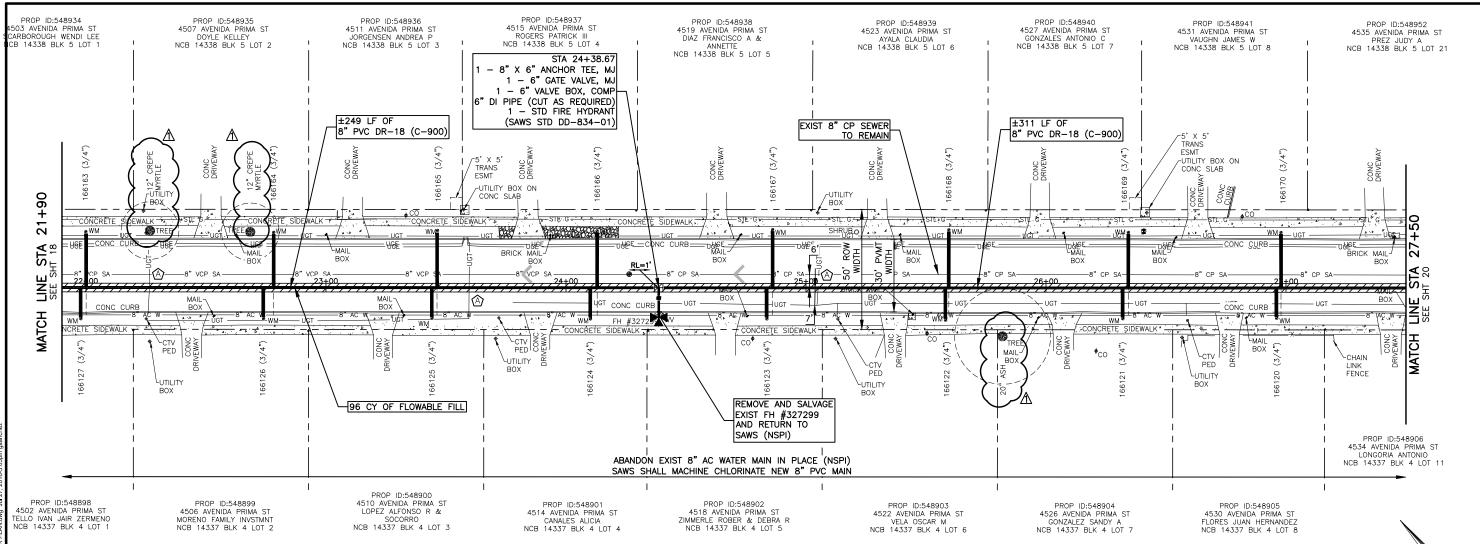












- 1. LOCATIONS AND DEPTHS OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATIONS AND DEPTHS MUST BE FIELD VERIFIED BY THE CONTRACTOR AT LEAST 1 WEEK PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LOCATE UTILITY SERVICE LINES AS REQUIRED FOR CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION AT NO COST TO SAWS.
- 2. CONTRACTOR SHALL RESTORE IRRIGATION SYSTEM TO ORIGINAL OR BETTER CONDITION IF DAMAGED DURING CONSTRUCTION (NSPI).
- 3. CONTRACTOR SHALL REPAIR AND/OR REPLACE EXISTING MAIL BOXES TO ORIGINAL OR BETTER CONDITION IF DAMAGED DURING CONSTRUCTION (NSPI).
- 4. CONTRACTOR SHALL ADD OR REPLACE CUSTOMER SHUT OFF VALVES FOR EVERY SERVICE.

TRENCH EXCAVATION SAFETY PROTECTION:

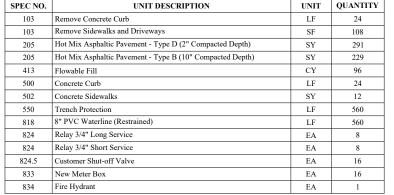
INDEPENDENTLY STRUCTURE/DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND AVAILABLE GEOTECHNICAL INFORMATION AND THE INFORMATION AND THE ANTICIPATED INSTALLATION SITE(S) WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES. THE CONTRACTORS IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE IMPLEMENTATION OF THE SYSTEMS, PROGRAMS AND/OR PROCEDURES SHALL PROVIDE FOR ADEQUATE TRENCH EXCAVATION SAFETY PROTECTION THAT COMPLIES WITH, AS A MINIMO, OSHA STANDARDS FOR TRENCH EXCAVATIONS, SPECIFICALLY, CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OF SAFETY CONSULTANT SHALL IMPLEMENT A TRENCH SAFETY PROGRAM IN ACCORDANCE WITH OSHA STANDARDS GOVERNING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND

TREE PROTECTION NOTE:

THE ROOT PROTECTION ZONE IS THAT AREA SURROUNDING A TREE, AS MEASURED BY A RADIUS FROM THE TREE TRUNK, IN WHICH NO EQUIPMENT, VEHICLES OR MATERIALS MAY OPERATE OR BE STORED. THE REQUIRED RADIUS LENGTH IS ONE FOOT (1') PER DIAMETER INCH OF THE TREE. FOR EXAMPLE, A TEN INCH (10") DIAMETER TREE WOULD HAVE A TEN FOOT (10') RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES THAT ARE IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. All OAK WOUNDS SHALL BE PAINTED OVER, WITHIN TWENTY (20) MINUTES TO PREVENT OAK WILT.

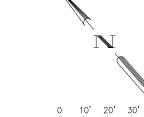
ASBESTOS CEMENT PIPE, ALSO KNOWN AS TRANSITE PIPE, AND WHICH IS KNOWN TO CONTAIN ASBESTOS CONTAINING MATERIAL (ACM) IS LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THE PIPE OCCUR. PAYMENT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

SPEC NO.	UNIT DESCRIPTION	UNIT	QUANTITY
103	Remove Concrete Curb	LF	24
103	Remove Sidewalks and Driveways	SF	108
205	Hot Mix Asphaltic Pavement - Type D (2" Compacted Depth)	SY	291
205	Hot Mix Asphaltic Pavement - Type B (10" Compacted Depth)	SY	229
413	Flowable Fill	CY	96
500	Concrete Curb	LF	24
502	Concrete Sidewalks	SY	12
550	Trench Protection	LF	560
818	8" PVC Waterline (Restrained)	LF	560
824	Relay 3/4" Long Service	EA	8
824	Relay 3/4" Short Service	EA	8
824.5	Customer Shut-off Valve	EA	16
833	New Meter Box	EA	16
834	Fire Hydrant	EA	1





Brown & Gay Engineers, Inc. F-1046



SCALE: $1'' = 40^{\circ}$

CAUTION !!! UNDERGROUND TELEPHONE CROSSING CAUTION !!! UNDERGROUND GAS CROSSING B		BGE, Inc. 7330 San P Tel: 210-58			an Antonio, ⁻ einc.com	Гх 78216
CAUTION !!! UNDERGROUND C		TBPE Regis	stration	No. F-1046	3	
PROP. WATER MAIN PROP. SAN SERVICE (CLEANQUIT						
EXIST. WATER MAIN —0-6" C.I.W4".— GAS MAIN —2" G—	Â	REVISED BY ADDENDUM #	<u>!</u> 1	GS	ST	JULY 2018
SANITARY SEWER — 8" SA——	No.	Revision		Drawn	Approved	Date
STORM SEWER — 24" ST———		F	REVIS	IONS		
UTILITY POLE LINE ELECTRIC CABLE TELEPHONE CABLE TULL BRANCH SERV. NEW UNMETERED SERVICE: 3/4" SINGLE 1" DUAL SERVICE RECONNECT:			FRON TO VENII IMPR	M PERR SCHEI DA PRI OVEMEI	ENIDA P IN BEITE RTZ RD IMA WAT NTS ST STA 27+	ER ΓΑ
3/4" ************************************	IDE/	/ELOPER:				

1" OR LARGER CONT. SERVICE RELAY:

3/4' 1" OR LARGER SERVICE RELOCATE: 3/4" 1" OR LARGER RELOCATE METER NEW SERVICE: 3/4" 1" OR LARGER≡

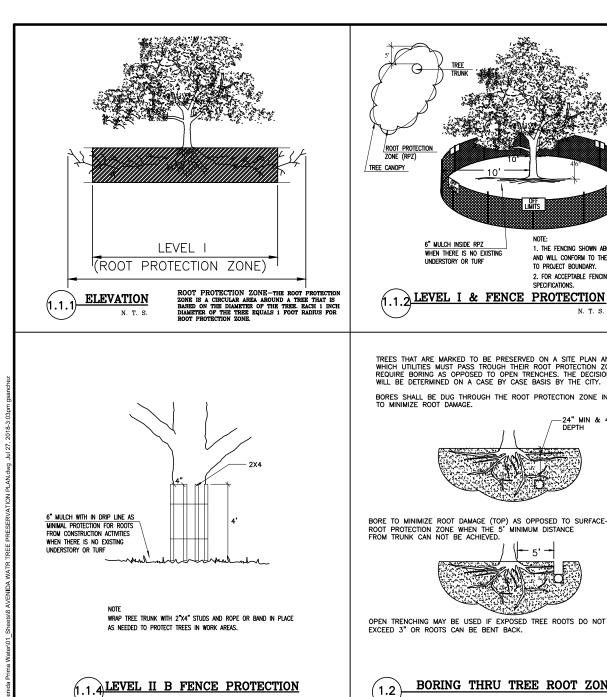
M CAUTION !!! **EXISTING** UNDERGROUND GAS,

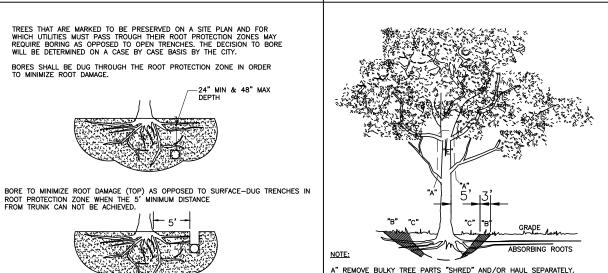
 \geq ELECTRIC AND TELEPHONE LINES \leq

LEGEND

FROM PERRIN BEITEL TO SCHERTZ RD VENIDA PRIMA WATER MPROVEMENTS STA 1+90 TO STA 27+50 BUDGET PROJ. SURMITTED

APPROVED MAP No. 188622 AND 190620 SHEET SECT. No. 19





ZONE (RPZ)

6" MULCH INSIDE RPZ WHEN THERE IS NO EXISTING

8" MUICH OUTSIDE RP7

AND UNDER DRIP LINE AS
MINIMAL PROTECTION FOR ROOTS
FROM CONSTRUCTION ACTIVITIES

UNDERSTORY OR TURF

ROOT PROTECTION ZONE (RPZ)

1. THE FENCING SHOWN ABOVE IS DIAGRAMMATIC ONLY

AND WILL CONFORM TO THE DRIP LINE AND LIMITED

2. FOR ACCEPTABLE FENCING MATERIALS SEE

TO PROJECT BOUNDARY.

"B" BEGIN EXCAVATION APPROX. 8' FROM THE TRUNK - CUT THRU ANCHOR ROOTS OPEN TRENCHING MAY BE USED IF EXPOSED TREE ROOTS DO NOT AT AN ANGLE - 3' TO 4' DEEP

"C" USING TREE TRUNK AS A LEVER PUSH AT POINT "E" TO REMOVE TREE BOLE AND LARGE FEEDER ROOTS (4" TO 10" IN DIAM.)

"D" BACKFILL HOLE AND CLEAN UP.

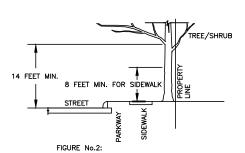
TREE REMOVAL DIAGRAM

BRANCH COLLAR PROPER PRUNING FOR BRANCHES 1 1/2" OR

- A. FIRST CUT TO PREVENT THE BARK FROM BEING PEELED WHEN THE BRANCH FALLS.
- B. SECOND CUT TO REDUCE THE WEIGHT OF BRANCH.
- C. FINAL CUT ALLOW FOR HEALING COLLAR BUT NO STUBS

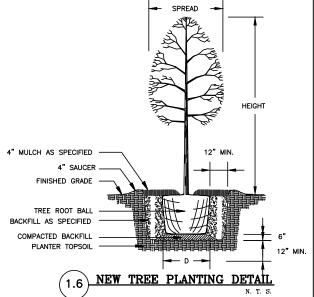
FOR OAKS ONLY: PAINT ALL WOUNDS OR CUTS WITH PRUNING PAINT WITHIN 20 MIN TO PREVENT THE SPREAD OF OAK WILT.

1.4 BRANCH PRUNING DETAIL



BORING THRU TREE ROOT ZONE

A MINIMUM BRANCH CLEARANCE OF 14 FEET ABOVE STREET ELEVATION MUST BE MAINTAINED FROM THE PROPERTY LINE TO THE CURB LINE AS PRESCRIBED BY PROJECT MANAGER.



ROOT PROTECTION

DRIP LINE

1. OPTION USED FOR TIGHT CONSTRUCTION AREAS

OR WHEN CONSTRUCTION OCCURS IN ROOT

2. FOR ACCEPTABLE FENCING MATERIALS SEE

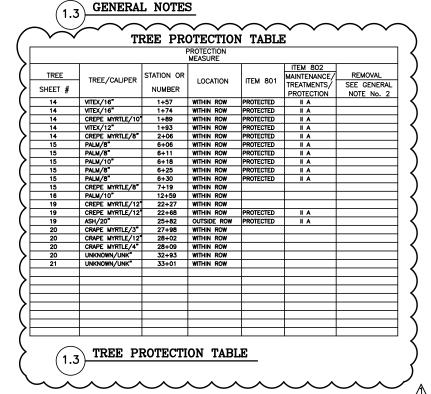
PROTECTION ZONE.

SPECIFICATIONS.

LEVEL II A FENCE PROTECTION

ZONE (RPZ)

- ALL PROTECTED SIZE TREES AFFECTED BY CONSTRUCTION SHALL HAVE THE LIMBS AND ROOTS TRIMMED AND PRUNED ACCORDING TO ITEM No. 802. (TREE PRUNING, SOIL AMENDING AND FERTILIZATION), UNLESS SPECIFIED TREES SHALL RECEIVE LEVEL 1 PROTECTION AS PER ITEM No. 801. (TREE AND LANDSCAPE PROTECTION) AND AS DETAILED IN 1.1.2.
- 3. NO SITE PREPARATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND PROTECTION MEASURES HAVE NOT BEEN COMPLETED AND APPROVED BY THE CITY ARBORIST OFFICE.
- TREE PROTECTION FENCING SHALL BE MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION.
- HAT AREA SURROUNDING A TREE, AS MEASURED BY A RADIUS FROM THE TREE TRUNK, IN WHICH NO EQUIPMENT, VEHICLES OR MATERIALS MAY OPERATE OR SITURITY IS ONE FOOT (1) PER DIAMETER INCH OF THE TREE. FOR EXAMPLE, A TEN INCH (10⁷) DIAMETER TREE WOULD HAVE A TEN FOOT (10⁷) RADIUS ILENTER, ROOTS OR BRANCHES THAT ARE IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. AI
- NO DISTURBANCE SHALL OCCUR CLOSER TO THE TRUNK THAN HALF THE ROOT PROTECTION ZONE AREA
- TREES, SHRUBS OR BUSHES TO BE CLEARED FROM PROTECTED ROOT ZONE AREAS SHALL BE REMOVED BY HAND.
- TREES DAMAGED OR LOST DUE TO CONTRACTOR'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED.
- 10. EXPOSED ROOTS SHALL BE COVERED AT THE END OF EACH DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH OR WET BURLAP.
- 11. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST OFFICE PRIOR TO ITS REMOVAL.



TREE INVENTORY SUMMARY (8" DIAMETER AND LARGER) TOTAL DIAMETER INCHES, R.O.W TOTAL DIAMETER INCHES REMOVED 186

TOTAL DIAMETER INCHES PRESERVED 100% TOTAL PERCENTAGE INCHES PRESERVED

___0 TOTAL INCHES TO BE MITIGATED





Brown & Gay Engineers, Inc.



REVISIONS 2019 SMP-AVENIDA PRIMA FROM PERRIN BEITEL TO SCHERTZ RD

AVENIDA PRIMA TREE PRESERVATION PLAN

22

DEVELOPER: CONT. BUDGET PROJ. SUBMITTED APPROVED MAP No. 188622 AND 190620 SHEET SECT. No.

BRANCH CLEARANCE DETAIL

6" MULCH INSIDE RPZ

WHEN THERE IS NO EXISTING UNDERSTORY OR TURF

F-1046

