SUMMARY NOTES:

| DEVELOPER/OWNER: | EMILIANO GUERRERO FORESTAR (USA) REAL ESTATE GROUP 16500 SAN PEDRO AVE., SUITE 400 SAN ANTONIO, TX 78232 |
|------------------|--|
| ENGINEER: | BGE, INC., TBPE-1046 CONTACT: AARON NEUMANN, P.E. EMAIL: ANEUMANN@BGEINC.COM 7330 SAN PEDRO AVENUE SUITE 202 SAN ANTONIO, TEXAS 78216 PHONE: (210) 581-3600 |
| SURVEYOR: | BGE, INC., TBPE F1046 CONTACT: DION ALBERTSON EMAIL: DALBERTSON@BGEINC.COM 7330 SAN PEDRO AVENUE SUITE 202 SAN ANTONIO, TEXAS 78216 |

PHONE: (210)581-3600

GENERAL NOTES

FLOODPLAIN INFORMATION

A PORTION OF THE LOT IN THIS TRACT IS WITHIN THE BOUNDARIES OF THE 100 YEAR FLOODPLAIN OF ANY WATERWAY THAT IS WITHIN THE LIMITS OF THE FEDERAL FLOOD INSURANCE ADMINISTRATION FIRM PANEL

1. COORDINATES ARE BASED ON THE TEXAS STATE

NAD 83, AND ARE IN SURFACE COORDINATES. PANEL POINTS ARE SIR12 WITH BGE CAPS OR A MAG

CHEVRON FOR PANEL POINT.

NAIL WITH A BGE WASHER IN ASPHALT AND 1' X 2'

PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE,

CONTROL POINTS

PANEL POINT 103 SURFACE GRID N. 13,735,448.23 E. 2,026,254.82

PANEL POINT 104 SURFACE GRID N. 13,738,239.53 E. 2,025,887.19

PANEL POINT 107 SURFACE GRID N. 13,735,419.26 E. 2,023,790.18

GENERAL NOTES

ALL CONSTRUCTION SHALL CONFORM TO THE LATEST SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION.



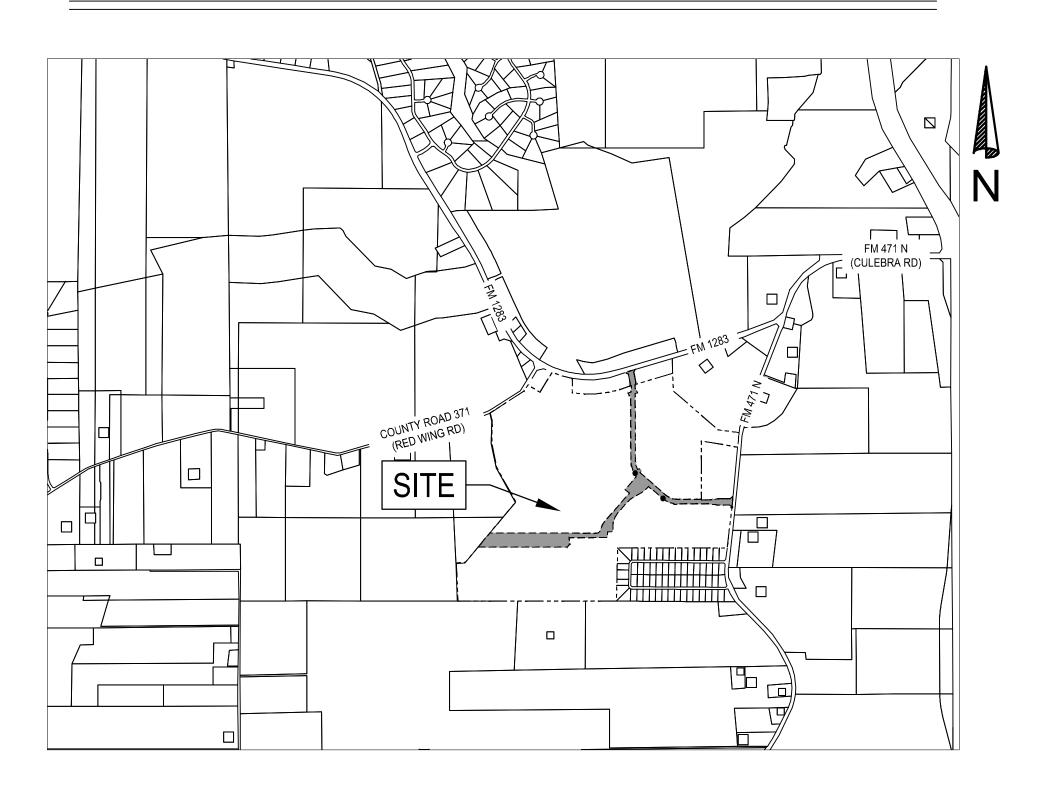
THE LOCATION OF EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

CIVIL CONSTRUCTION DRAWINGS: WEATHERWOOD RANCH PHASE 1 SAN ANTONIO WATER SYSTEM

WATER PLANS

APRIL 2024

VICINITY MAP-1" = 2000'



| REVISIONS/CORRECTIONS | | | | | |
|-----------------------|-------------|------|---|-------------|------------------|
| SHEET LIST | DESCRIPTION | DATE | REVISE (R) ADD (A) VOID (V) SHEET NO.'S | ACCEPTED BY | APPROVAL DATE |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

SAWS PRESSURE ZONE 1170 DEVELOPER NAME: FORESTAR (USA) REAL ESTATE GROUP DEVELOPER ADDRESS: 16500 SAN PEDRO AVE CITY<u>SAN ANTONIO</u>STATE<u>TX</u>ZIP<u>78232</u> PHONE<u>N/A</u>FAX<u>N/A</u>

 SAWS BLOCK MAP # XXXX
 TOTAL EDU'S 14
 TOTAL ACREAGE 29.3

 TOTAL LINEAR FOOTAGE OF PIPE
 4,843
 PLAT NO. 22-11800271

 NUMBER OF LOTS
 0
 SAWS JOB NO. 22-1128



SUBMITTED BY

AARON J. NEUMANN, P.E. BGE, INC. TBPE NO.F-1046 7330 SAN PEDRO AVENUE SUITE 202 SAN ANTONIO, TEXAS 78216 (210) 581-3600 (MAIN)

PLAT NO. 22-11800271

SHEET LIST TABLE

DATE:

Sheet Description

Sheet Title

| C00.00 | W - TITLE SHEET |
|--------|--|
| C01.00 | W - CIVIL GENERAL NOTES |
| C02.10 | W - MASTER UTILITY PLAN |
| C08.00 | W - PHASE 1 WATER DISTRIBUTION PLAN (SHEET 1 OF 3) |
| C08.01 | W - PHASE 1 WATER DISTRIBUTION PLAN (SHEET 2 OF 3) |
| C08.02 | W - PHASE 1 WATER DISTRIBUTION PLAN (SHEET 3 OF 3) |
| C10.00 | W - CIVIL UTILITY DETAILS |
| | |



BGE, Inc. 7330 San Pedro Ave., Suite 202 San Antonio, TX 78216 Tel: 210-581-3600 • www.browngay.com TBPE Registration No. F-1046

C00.00

| GENE | RAL CONSTRUCTION : |
|------------|--|
| 1. 2. | ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION JUNE 2008, OR LATEST. NO EXTRA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS, BUT NOT INCLUDED IN THE BID PROPOSAL. THIS INCIDENTAL |
| 3. | WORK WILL BE REQUIRED AND SHALL BE INCLUDED IN THE PAY ITEM TO WHICH IT RELATES. THE CONTRACTOR SHALL PROVIDE ACCESS FOR THE DELIVERY OF MAIL BY THE U.S. POSTAL SERVICE. |
| 4. | THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION ANY DAMAGE DONE TO EXISTING FENCES, CONCRETE ISLANDS, STREET PAVING, CURBS, SHRUBS, BUSHES OR DRIVEWAYS. (NO SEPARATE PAY ITEM). |
| 5. | IT IS THE CONTRACTOR'S RESPONSIBILITY TO SEE THAT ALL SIGNS AND BARRICADES ARE PROPERLY INSTALLED AND MAINTAINED. ALL LOCATIONS AND DISTANCES WILL BE DECIDED UPON IN THE FIELD BY THE CONTRACTOR, USING THE "TEXAS MANUAL ON UNIFORM TRAFFIC |
| | CONTROL DEVICES". THE CITY'S CONSTRUCTION INSPECTOR AND TRAFFIC ENGINEERING REPRESENTATIVE WILL ONLY BE RESPONSIBLE TO INSPECT BARRICADES AND SIGNS. IF, IN THE OPINION OF THE TRAFFIC ENGINEERING REPRESENTATIVE AND THE CONSTRUCTION INSPECTOR |
| | THE BARRICADES AND SIGNS DO NOT CONFORM TO ESTABLISHED STANDARDS OR ARE INCORRECTLY PLACED OR ARE INSUFFICIENT IN QUANTITY TO PROTECT THE GENERAL PUBLIC, THE CONSTRUCTION INSPECTOR SHALL HAVE THE OPTION TO STOP OPERATIONS UNTIL SUCH |
| 6. | TIME AS THE CONDITIONS ARE CORRECTED. IF THE NEED ARISES, ADDITIONAL BARRICADES AND DIRECTIONAL DEVICES MAY BE ORDERED BY THE TRAFFIC ENGINEERING |
| 7. | REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.171 C.P.S. MUST MAINTAIN ACCESS TO GAS VALVES AT ALL TIMES. THE CONTRACTOR |
| 8. | MUST PROTECT AND WORK AROUND ANY GAS VALVES THAT ARE IN THE PROJECT AREA. CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR TWENTY-FOUR (24) HOURS PRIOR TO BACKFILL OF ANY UTILITY TRENCHES TO SCHEDULE |
| 9. | FOR DENSITY TEST AS REQUIRED CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES, MARKS, ETC. IF ANY ARE DESTROYED OR REMOVED BY THE CONTRACTOR OR |
| 10. | HIS EMPLOYEES, THEY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF EXISTING UTILITIES. |
| | CONTRACTOR SHALL NOTIFY THE FOLLOWING ATLEAST FORTY - EIGHT (48) HOURS PRIOR TO EXCAVATION OPERATION: SAN ANTONIO WATER SYSTEM (SAWS) 233-2010 |
| | BEXAR METROPOLITAN WATER DISTRICT (BEXAR MET) 354-6538 / 357-5741 COSA DRAINAGE 207-8048 |
| | COSA SIGNAL OPERATIONS207-7720 / 207-7765TEXAS STATEWIDE ONE CALL LOCATOR1-800-344-8377 |
| | - CITY PUBLIC SERVICE ENERGY - TIME WARNER |
| | - AT&T - MCI |
| 11. | THE EXISTENCE AND LOCATION OF UNDERGROUND UTILITIES INDICATED ON THE PLANS ARE TAKEN FROM AVAILABLE RECORDS AND ARE NOT GUARANTEED BUT SHALL BE INVESTIGATED AND VERIFIED BY THE CONTRACTOR BEFORE STARTING WORK. THE CONTRACTOR SHALL BE |
| | HELD RESPONSIBLE FOR ANY DAMAGE TO AND FOR THE MAINTENANCE AND PROTECTION OF THE EXISTING UTILITIES EVEN IF THEY ARE NOT SHOWN ON THE PLANS. LOCATION AND DEPTH OF EXISTING UTILITIES SHOWN HERE ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND |
| | DEPTHS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND HE SHALL BE RESPONSIBLE FOR PROTECTION OF SAME DURING CONSTRUCTION. |
| 12. | ALL WASTE MATERIAL SHALL BECOME PROPERTY OF THE CONTRACTOR AND SHALL BE HIS SOLE RESPONSIBILITY TO DISPOSE OF THIS MATERIAL OFF THE LIMITS OF THE PROJECT. NO WASTE MATERIAL SHALL BE PLACED IN EXISTING LOWS THAT WILL BLOCK OR ALTER FLOW |
| 13. | LIMITS OF EXISTING ARTIFICIAL OR NATURAL DRAINAGE. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIAL IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD |
| 14. | PLAIN DEVELOPMENT PERMIT. THE CONTRACTOR SHALL MAINTAIN ALL ADJOINING STREETS AND TRAVELED ROUTES FREE FROM SPILLED AND / OR TRACKED |
| | CONSTRUCTION MATERIALS AND / OR DEBRIS.IF THE CONTRACTOR ENCOUNTERS ANY ARCHAEOLOGICAL DEPOSITS DURING CONSTRUCTION OPERATIONS, THE CONTRACTOR MUST STOP EXCAVATION IMMEDIATELY, CONTACT THE CITY INSPECTOR, AND CALL THE CITY HISTORIC |
| | PRESERVATION OFFICE AT 207-7306 OR 207-3327 FOR AN ARCHAEOLOGICAL INVESTIGATION. THE CONTRACTOR CANNOT BEGIN EXCAVATION AGAIN WITHOUT WRITTEN PERMISSION FROM THE CITY. |
| | IF MORE THAN THREE (3) DAYS ARE REQUIRED FOR INVESTIGATION (NOT INCLUDING HOLIDAY AND WEEKENDS) AND IF THE CONTRACTOR IS UNABLE TO WORK IN OTHER AREAS, THEN THE CONTRACTOR WILL BE ALLOWED TO NEGOTIATE FOR ADDITIONAL CONSTRUCTION TIME UPON |
| | WRITTEN REQUEST WITHIN TEN (10) DAYS AFTER THE FIRST NOTICE TO THE CITY OF ARCHAEOLOGICAL INVESTIGATION FOR EACH EVENT. IF THE TIME REQUIRED FOR INVESTIGATION IS LESS THAN OR EQUAL TO THREE (3) DAYS FOR EACH EVENT, CONTRACT DURATION WILL NOT |
| 15. | BE EXTENDED. IF SUSPECTED CONTAMINATION IS ENCOUNTERED DURING CONSTRUCTION OPERATIONS, C. O.S. A. SHALL BE NOTIFIED IMMEDIATELY WHEN |
| | CONTAMINATED SOILS AND / OR GROUNDWATER ARE ENCOUNTERED AT LOCATIONS NOT IDENTIFIED IN THE PLANS. THE NOTIFICATION SHOULD INCLUDE THE STATION NUMBER, TYPE OF CONTAMINATED MEDIA, EVIDENCE OF CONTAMINATION AND MEASURES TAKEN TO CONTAIN |
| | THE CONTAMINATED MEDIA AND PREVENT PUBLIC ACCESS. THE CONTAMINATED SOIL AND / OR GROUNDWATER SHALL NOT BE REMOVED FROM THE LOCATION WITHOUT PRIOR C₀SA APPROVAL. |
| | THE CONTRACTOR MUST STOP THE EXCAVATION IMMEDIATELY AND CONTACT THE C₀SA INSPECTOR. THE CONTRACTOR CANNOT BEGIN EXCAVATION ACTIVITIES WITHOUT WRITTEN PERMISSION FROM THE CITY. |
| 16. | CONTRACTOR IS TO INCLUDE A MAILBOX POST BLOCKOUT FOR VACANT LOTS AND ALL RESIDENCES WHICH DO NOT HAVE MAILBOXES AT THE CURB. BLOCKOUTS ARE PROVIDED FOR FUTURE USE BY THE POST OFFICE. |
| 17. | CONTRACTOR SHALL NOT REMOVE OR ADJUST ANY VIA FACILITIES. THE CONTRACTOR MUST CONTACT VIA FOURTEEN DAYS PRIOR, FOR THE REMOVAL OF BENCHES, STOP POLES OR ANY OTHER VIA FACILITIES THAT MAY BE PRESENT. PLEASE PROVIDE THIRTY DAYS PRIOR NOTICE |
| | FOR SHELTER REMOVAL (TELEPHONE NOS: (210) 362-2155 OR (210) 362-2096). THE CONTRACT WILL BE LIABLE FOR ANY DAMAGES TO VIA FACILITIES NOT REMOVED BY VIA. THE CONTRACTOR IS REQUIRED TO REPLACE ALL FLATWORK REMOVED OR DAMAGED IN THE COURSE OF |
| | EXECUTING THE CONTRACT UNLESS OTHERWISE NOTED BY VIA. THE CONTRACTOR WILL BE RESPONSIBLE FOR PROTECTING VIA FACILITIES IF ADJACENT TO WORK AREA. |
| | |
| TREE | PROTECTION AND PRESERVATION GENERAL NOTES : |
| 1. | NO UTILITY OR STREET EXCAVATION WORK SHALL BEGIN IN AREAS WHERE TREE PRESERVATION AND TREATMENT MEASURES HAVE NOT |
| 2. | BEEN COMPLETED AND APPROVED. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE |
| 0 | CONTRACTOR DURING SITE CONSTRUCTION. DURING CONSTRUCTION ACTIVITY, AT LEAST A SIX - INCH LAYER OF COARSE MULCH SHALL BE PLACED AND MAINTAINED OVER THE ROOT PROTECTION ZONE (NO SEPARATE PAY ITEM). |
| 3. | THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN THE VICINITY OF TREES SHALL PROCEED WITH CAUTION. THE CONTRACTOR SHALL CONTACT THE CITY INSPECTOR FOR |
| 4. | GUIDANCE. ROOTS WILL BE CUT WITH A ROCK SAW OR BY HAND, NOT BY AN EXCAVATOR OR OTHER ROAD CONSTRUCTION EQUIPMENT. |
| 5. 6 | ALL CURB AND SIDEWALK WORK SHALL USE ALTERNATIVE CONSTRUCTION METHODS TO MINIMIZE EXTENSIVE ROOT DAMAGE TO TREES (REFER TO DETAILS). EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL. MULCH, OR WET BURLAR |
| 6. 7. | EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH, OR WET BURLAP. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL OPERATE OR BE STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT, POOT PROTECTION ZONE IS 1 FOOT OF PADIUS PER INCH OF TREE'S DIAMETER, A 10, INCH DIAMETER TREE WOULD HAVE A 10. |
| | PROJECT. ROOT PROTECTION ZONE IS 1 FOOT OF RADIUS PER INCH OF TREE'S DIAMETER. A 10 - INCH DIAMETER TREE WOULD HAVE A 10 FOOT RADIUS ROOT PROTECTION ZONE AROUND THE TREE. ROOTS OR BRANCHES IN CONFLICT WITH THE CONSTRUCTION SHALL BE CUT CLEANLY ACCORDING TO PROPER PRUNING METHODS. OAK WOUNDS SHALL BE PAINTED OVER WITHIN 30 MINUTES TO PREVENT OAK WILT. |
| 8. | CLEANLY ACCORDING TO PROPER PROVING METHODS. OAK WOUNDS SHALL BE PAINTED OVER WITHIN 30 MINUTES TO PREVENT OAK WILT. PLINGS, SHRUBS OR BUSHES TO BE CLEARED FROM THE PROTECTED ROOT ZONE AREA OF A LARGE TREE SHALL BE REMOVED BY HAND AS DESIGNATED BY THE INSPECTOR. |
| 9. 10. | DESIGNATED BY THE INSPECTOR. NO WIRES, NAILS OR OTHER MATERIAL MAY BE ATTACHED TO PROTECTED TREES. TREES, TREE LIMBS, BUSHES AND SHRUBS LOCATED IN THE CITY STREET OR ALLEY RIGHT - OF - WAY OR PERMANENT EASEMENTS WHICH |
| ιU. | IREES, TREE LIMBS, BUSHES AND SHRUBS LOCATED IN THE CITY STREET OR ALLEY RIGHT - OF - WAY OR PERMANENT EASEMENTS WHICH INTERFERE WITH PROPOSED CONSTRUCTION ACTIVITIES SHALL BE PROPERLY PRUNED FOLLOWING THE ANSI A- 300 STANDARDS FOR PRUNING. ALL TREE PRUNING SHALL BE COMPLETED BY A CITY OF SAN ANTONIO TREE MAINTENANCE LICENSED CONTRACTOR (ARTICLE 21- |
| 11 | PRUNING. ALL TREE PRUNING SHALL BE COMPLETED BY A CITY OF SAN ANTONIO TREE MAINTENANCE LICENSED CONTRACTOR (ARTICLE 21- 171, CITY CODE) ONLY AFTER APPROVAL FROM THE CAPITAL PROJECTS MANAGEMENT THROUGH THE INSPECTOR. NO EXCESSIVE TREE TRIMMING WILL BE PERMITTED. |
| 11. 12. | NO EXCESSIVE TREE TRIMMING WILL BE PERMITTED. ALL DEBRIS GENERATED BY THE PRUNING AND TRIMMING OF THE TREES AND / OR BUSHES SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY (NO SEPARATE PAY ITEM). |
| 13. | CONTRACTOR AND SHALL BE DISPOSED OF PROPERLY (NO SEPARATE PAY ITEM). TREES MUST BE MAINTAINED IN GOOD HEALTH THROUGHOUT THE CONSTRUCTION PROCESS. MAINTENANCE MAY INCLUDE, BUT NOT LIMITED TO: WATERING THE ROOT PROTECTION ZONE, WASHING FOLIAGE, FERTILIZATION, PRUNING, ADDITIONAL MULCH APPLICATIONS AND OTHER |
| 11 | TO: WATERING THE ROOT PROTECTION ZONE, WASHING FOLIAGE, FERTILIZATION, PRUNING, ADDITIONAL MULCH APPLICATIONS AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST. (207 - 8053) |
| 14. 15. | ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST. (207 - 8053) TREES WHICH ARE DAMAGED OR LOST DUE TO THE CONTRACTOR 'S NEGLIGENCE DURING CONSTRUCTION SHALL BE MITIGATED TO THE CITY'S SATISFACTION. |
| 16. | TREE PLANTING FOR MITIGATION OR ENHANCEMENT: ALL PLANTED TREES SHALL BE MAINTAINED IN A HEALTHY CONDITION AT ALL TIMES. THIS INCLUDES IRRIGATION, FERTILIZING, PRUNING AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT. TREES THAT DIE WITHIN |
| | THIS INCLUDES IRRIGATION, FERTILIZING, PRUNING AND OTHER MAINTENANCE AS NEEDED ON THE PROJECT. TREES THAT DIE WITHIN TWELVE (12) MONTHS SHALL BE REPLACED WITH A TREE OF EQUAL SIZE AND SPECIES. |
| ACCE | SSIBILITY REQUIREMENTS: |
| 1. | THE CONTRACTOR SHALL PROVIDE AND MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS AT ALL TIMES TO LOCAL RESIDENCES AND |
| 2. | BUSINESSES. WHEN THE WORK REQUIRES THE EXCAVATION OF THE STREET AND THE REMOVAL OF THE EXISTING DRIVEWAY APPROACHES AND |
| | SIDEWALKS, ALL-WEATHER ACCESS TO THE BUSINESSES AND RESIDENCES. THE TEMPORARY DRIVEWAY APPROACHES SHALL BE CONSTRUCTED WITH FLEXIBLE BASE OR GRAVEL MATERIAL AT NO SEPARATE COST TO THE CITY. |
| 3. | PRIOR TO INITIATING THE CONSTRUCTION OF NEW DRIVEWAY APPROACHES, THE CONTRACTOR SHALL GIVE ADVANCE WARNING IN PERSON, OR IN WRITING, OF AT LEAST 48 HOURS TO EACH RESIDENCE THAT WILL BE IMMEDIATELY AFFECTED, SO THAT ALTERNATE PLANS MAY BE |
| 4. | MADE BY THE RESIDENTS. FOR BUSINESSES WITH MORE THAN ONE DRIVEWAY, AT LEAST ONE DRIVEWAY SHALL REMAIN OPEN WHILE THE OTHER NEW DRIVEWAY |
| | APPROACHES ARE CONSTRUCTED. FOR BUSINESSES WITH ONLY ONE DRIVEWAY, THE NEW DRIVEWAY APPROACH SHALL BE CONSTRUCTED IN HALF WIDTHS, UNLESS A TEMPORARY ASPHALT DRIVEWAY IS FIRST INSTALLED AT NO SEPARATE COST TO THE CITY. |
| | |
| | |
| | |

SAWS GENERAL CONSTRUCTION :

 ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT SHALL BE APPROVED BY THE SAN ANTONIO WATER SYSTEM (SAWS) AND COMPLY WITH THE PLANS, SPECIFICATIONS, GENERAL CONDITIONS AND WITH THE FOLLOWING AS APPLICABLE:
 A. CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEM", TEXAS ADMINISTRATIVE CODE (TAC) TITLE 30 PART 1 CHAPTER 217 AND "PUBLIC DRINKING WATER", TAC TITLE 30 PART 1 CHAPTER 290.

- B. CURRENT TXDOT "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAYS, STREETS AND DRAINAGE."
- C. CURRENT "SAN ANTONIO WATER SYSTEM STANDARD SPECIFICATIONS FOR WATER AND SANITARY SEWER CONSTRUCTION."
 D. CURRENT CITY OF SAN ANTONIO "STANDARD SPECIFICATIONS FOR CONSTRUCTION PUBLIC WORKS CONSTRUCTION."
 E. CURRENT CITY OF SAN ANTONIO "UTILITY EXCAVATION CRITERIA MANUAL" (UECM).

CORRENT CITY OF SAN ANTONIO OTHERT EXCAVATION CRITERIA MANDAL (DECM).
 THE CONTRACTOR SHALL NOT PROCEED WITH ANY PIPE INSTALLATION WORK UNTIL THEY OBTAIN A COPY OF THE APPROVED COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP) FROM THE CONSULTANT AND HAS BEEN NOTIFIED BY SAWS CONSTRUCTION INSPECTION DIVISION TO PROCEED WITH THE WORK AND HAS ARRANGED A MEETING WITH THE INSPECTOR AND CONSULTANT FOR THE WORK REQUIREMENTS. WORK COMPLETED BY THE CONTRACTOR WITHOUT AN APPROVED COUNTER PERMIT AND/OR A GCP WILL BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE EXPENSE OF THE CONTRACTORS AND/OR THE DEVELOPER.
 THE CONTRACTOR SHALL OBTAIN SAWS STANDARD DETAILS FROM SAWS WERSITE. HTTPS://MMMA/ SAWS OPC/PLISINESS_CENTED/SPECS

THE CONTRACTOR SHALL OBTAIN SAWS STANDARD DETAILS FROM SAWS WEBSITE, HTTPS://WWW.SAWS.ORG/BUSINESS_CENTER/SPECS. UNLESS OTHERWISE NOTED WITHIN DESIGN PLANS.

THE CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRICTION INSPECTION DIVISION AT (210) 233-2973, ON NOTIFICATION PROCEDURES THAT WILL BE USED TO NOTIFY AFFECTED HOME RESIDENTS AND/OR PROPERTY OWNERS 48 HOURS PRIOR TO BEGINNING ANY WORK.

- LOCATION AND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATION SAND 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.
- THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES AT LEAST 1-2 WEEKS PRIOR TO CONSTRUCTION WHETHER SHOWN ON PLANS OR NOT. PLEASE ALLOW UP TO 7 BUSINESS DAYS FOR LOCATES REQUESTING PIPE LOCATION MARKERS ON SAWS FACILITIES. THE FOLLOWING CONTACT INFORMATION ARE SUPPLIED FOR VERIFICATION PURPOSES: SAWS UTILITY LOCATES: HTTP://WWW.SAWS.ORG/SERVICE/LOCATES
 - CoSA DRAINAGE (210) 207-0724 OR (210) 207-6026
 - CoSA TRAFFIC SIGNAL OPERATIONS 210-206-8480
 - CoSA TRAFFIC SIGNAL DAMAGES (210) 207-3951 TEXAS STATE WIDE ONE CALL LOCATOR 1-800-545-6005 OR 811

 THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, SIDEWALKS, LANDSCAPING, AND STRUCTURES TO ITS ORIGINAL OR BETTER CONDITION IF DAMAGES ARE MADE AS A RESULT BY THE PROJECT'S CONSTRUCTION.
 ALL WORK IN TEXAS DEPARTMENT OF TRANSPORTATION (TxDOT) AND/OR BEXAR COUNTY RIGHT-OF-WAY SHALL BE DONE IN ACCORDANCE WITH RESPECTIVE CONSTRUCTION SPECIFICATIONS AND PERMIT REQUIREMENTS.
 THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN

10. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOR PLAIN PERMIT.

11. HOLIDAY WORK: CONTRACTORS WILL NOT BE ALLOWED TO PERFORM SAWS WORK ON SAWS RECOGNIZED HOLIDAYS. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG.

WEEKEND WORK: CONTRACTORS ARE REQUIRED TO NOTIFY THE SAWS INSPECTION CONSTRUCTION DEPARTMENT 48 HOURS IN ADVANCE TO REQUEST WEEKEND WORK. REQUEST SHOULD BE SENT TO CONSTWORKREQ@SAWS.ORG

ANY AND ALL SAWS UTILITY WORK INSTALLED WITHOUT HOLIDAY/WEEKEND APPROVAL WILL BE SUBJECT TO BE UNCOVERED FOR PROPER INSPECTION.

 COMPACTION NOTE (ITEM 804): THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE COMPACTION REQUIREMENTS ON ALL TRANCH BACKFILL AND FOR PAYING FOR THE TESTS PERFORMED BY A THIRD PARTY. COMPACTION TESTS WILL BE DONE AT ONE LOCATION POINT RANDOMLY SELECTED, OR AS INDICATED BY THE SAWS INSPECTOR AND/OR THE TEST ADMINISTRATOR, PER EACH 12-INCH LOOSE LIFT PER 400 LINEAR FEET AT A MINIMUM. THIS PROJECT WILL NOT BE ACCEPTED AND FINALIZED BY SAWS WITHOUT THIS REQUIREMENT BEING MET AND VERIFIED BY PROVIDING ALL NECESSARY DOCUMENTED TEST RESULTS.

13. A COPY OF ALL TESTING REPORTS SHALL BE FORWARDED TO SAWS CONSTRUCTION INSPECTION DIVISION.

SAWS WATER NOTES :

EXCAVATING NEAR TREES.

- PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT LEAST ONE WEEK IN ADVANCE OF THE SHUTDOWN. THE CONTRACTOR MUST ALSO PROVIDE A SEQUENCE OF WORK AS RELATED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR THE PROJECT AND IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SEQUENCE THE WORK ACCORDINGLY.
- FOR WATER MAINS 12" OR HIGHER: SAWS EMERGENCY OPJERATIONS CENTER (210) 233-2014
- ASBESTOS CEMENT (AC) PIPE, ALSO KNOWN AS TRANSITE PIPE WHICH IS KNOWN TO CONTAIN ASBESTOS-CONTAINING MATERIAL (ACM), MAYBE LOCATED WITHIN THE PROJECT LIMITS. SPECIAL WASTE MANAGEMENT PROCEDURES AND HEALTH AND SAFETY REQUIREMENTS WILL BE APPLICABLE WHEN REMOVAL AND/OR DISTURBANCE OF THIS PIPE OCCURS. SUCH WORK IS TO BE MADE UNDER SPECIAL SPECIFICATION ITEM NO. 3000. "SPECIAL SPECIFICATION FOR HANDLING ASBESTOS CEMENT PIPE".
- VALVE REMOVAL: WHERE THE CONTRACTOR IS TO ABANDON A WATER MAIN, THE CONTROL VALVE LOCATED ON THE ABANDONING BRANCH WILL BE REMOVED AND REPLACED WITH A CAP/PLUG. (NSPI)
 SUITABLE ANCHORAGE/THRUST BLOCKING OR JOINT RESTRAINT SHALL BE PROVIDED AT ALL OF THE FOLLOWING MAIN LOCATIONS: DEAD
- SoftAble Anchorage/Throst blocking or joint restraint shall be provided at all of the following main locations. Dead ENDS, PLUGS, CAPS, TEES, CROSSES, VALVES, AND BENDS, IN ACCORDANCE WITH THE STANDARD DRAWINGS DD-839 SERIES AND ITEM NO. 839, IN THE SAWS STANDARD SPECIFICATIONS FOR CONSTRUCTION.
 ALL VALVES SHALL READ "OPEN RIGHT".
- 6. PRVS REQUIRED: CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF <u>985</u> FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW <u>985</u> FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT. ON THE CUSTOMER'S SIDE OF THE METER, AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S) IF *PRV IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED. *NOTE: A PRESSURE REGULATOR IS ALSO KNOWN AS A PRESSURE REDUCING VALVE(PRV).
- PIPE DISINFECTION WITH DRY HTH FOR PROJECTS LESS THAN 800 LINEAR FEET. (ITEM NO. 847.3): MAINS SHALL BE DISINFECTED WITH DRY HTH WHERE SHOWN IN THE CONTRACT DOCUMENTS OR AS DIRECTED BY THE INSPECTOR, AND SHALL NOT EXCEED A TOTAL LENGTH OF 800 FEET. THIS METHOD OF DISINFECTION WILL ALSO BE FOLLOWED FOR MAIN REPAIRS. THE CONTRACTOR SHALL UTILIZE ALL APPROPRIATE SAFETY MEASURE TO PROTECT HIS PERSONNEL DURING DISINFECTION OPERATIONS.
- BACKFLOW PREVENTION DEVICES:
 ALL IRRIGATION SERVICES WITHIN RESIDENTIAL AREAS ARE REQUIRED TO HAVE BACKFLOW PREVENTION DEVICES.
 ALL COMMERCIAL BACKFLOW PREVENTION DEVICES MUST BE APPROVED BY SAWS PRIOR TO INSTALLATION.
- FINAL CONNECTION TO THE EXISTING WATER MAIN SHALL NOT BE MADE UNTIL THE WATER MAIN HAS BEEN PRESSURE TESTED, CHLORINATED, AND SAWS HAS RELEASED THE MAIN FOR TIE-IN AND USE.

10. DIVISION VALVES: DIVISION VALVES SHOWN ON PLANS OR NOT SHOWN ON PLANS BUT FOUND IN THE FIELD SHALL ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF AND ONLY WITH PRIOR WRITTEN APPROVAL OF THE SAWS DIRECTOR OF PRODUCTION AND OPERATIONS AND PROPER COORDINATION WITH ALL SAWS DEPARTMENTS. CONTRACTOR SHALL PROVIDE WRITTEN NOTIFICATION TO THE INSPECTOR A MINIMUM OF TWO WEEKS IN ADVANCE TO START THE COORDINATION PROCESS AND WILL BE INFORMED BY THE INSPECTOR WHEN THE DIVISION VALVE WILL BE OPERATED BY THE SAWS DISTRIBUTION AND COLLECTION STAFF. THE DIVISION VALVE CAN ONLY BE OPERATED BY SAWS DISTRIBUTION AND COLLECTION STAFF MEMBER NOT THE INSPECTOR OR THE CONTRACTOR. OPERATION OF A DIVISION VALVE WITHOUT THE EXPRESS PRIOR WRITTEN APPROVAL OF THE SAWS DISTRIBUTION AND COLLECTION STAFF WILL CONSTITUTE A MATERIAL BREACH OF ANY WRITTEN SAWS CONTRACT OR PERMIT IN ADDITION TO SUBJECTING THE CONTRACTOR TO LIABILITY FOR ANY AND ALL FINES, FEES, OR OTHER DAMAGES, DIRECT OR CONSEQUENTIAL, THAT MAY ARISE FROM OR BE CAUSED BY THE OPERATION OF THE VALVE WITHOUT PRIOR WRITTEN PERMISSION. PLEASE BE INFORMED THAT THE APPROVAL OF THE OPERATION OR OPENING OR CLOSING OF A DIVISION VALVE CAN TAKE SEVERAL WEEKS FOR APPROVAL. DIVISION VALVES WILL ALSO HAVE A VALVE LID LABELED DIVISION VALVE AND A LOCKING MECHANISM INSTALLED WITH A KEY. THE LOCK AND KEY MECHANISM WILL BE PAID FOR BY THE CONTRACTOR BUT WILL BE INSTALLED BY SAWS DISTRIBUTION AND COLLECTION STAFF.

SAWS WATER NOTES :

23. THE CONTRACTOR IS RESPONS CONTRACTOR PERSONNEL RES OCCUR, THE CONTRACTOR SHA A. IDENTIFY THE SOURCE C (210-704-7297). PROVIDE
B. ATTEMPT TO ELIMINATE
C. CONTAIN SEWAGE FROM
D. CLEAN UP SPILL SITE (RE CONTAMINATED SOIL/MA
E. CLEAN THE AFFECTED SI
F. MEET ALL POST-SSO REC SEWER MAINS (AT SAWS

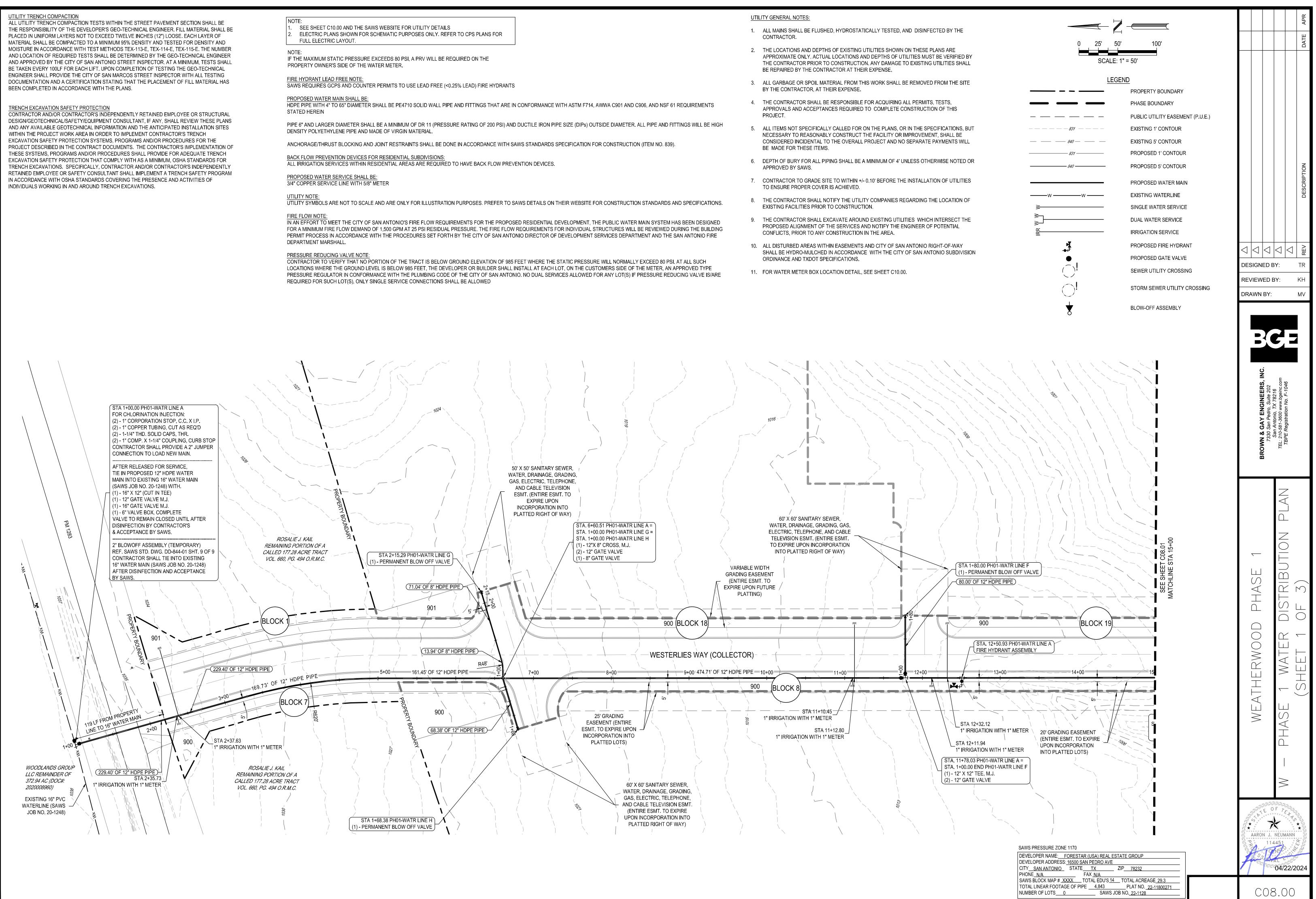
SHOULD THE CONTRACTOR FAIL TO AI INCURRED BY SAWS, INCLUDING ANY F NO SEPARATE MEASUREMENT OR PAY TCEQ AND SAWS.

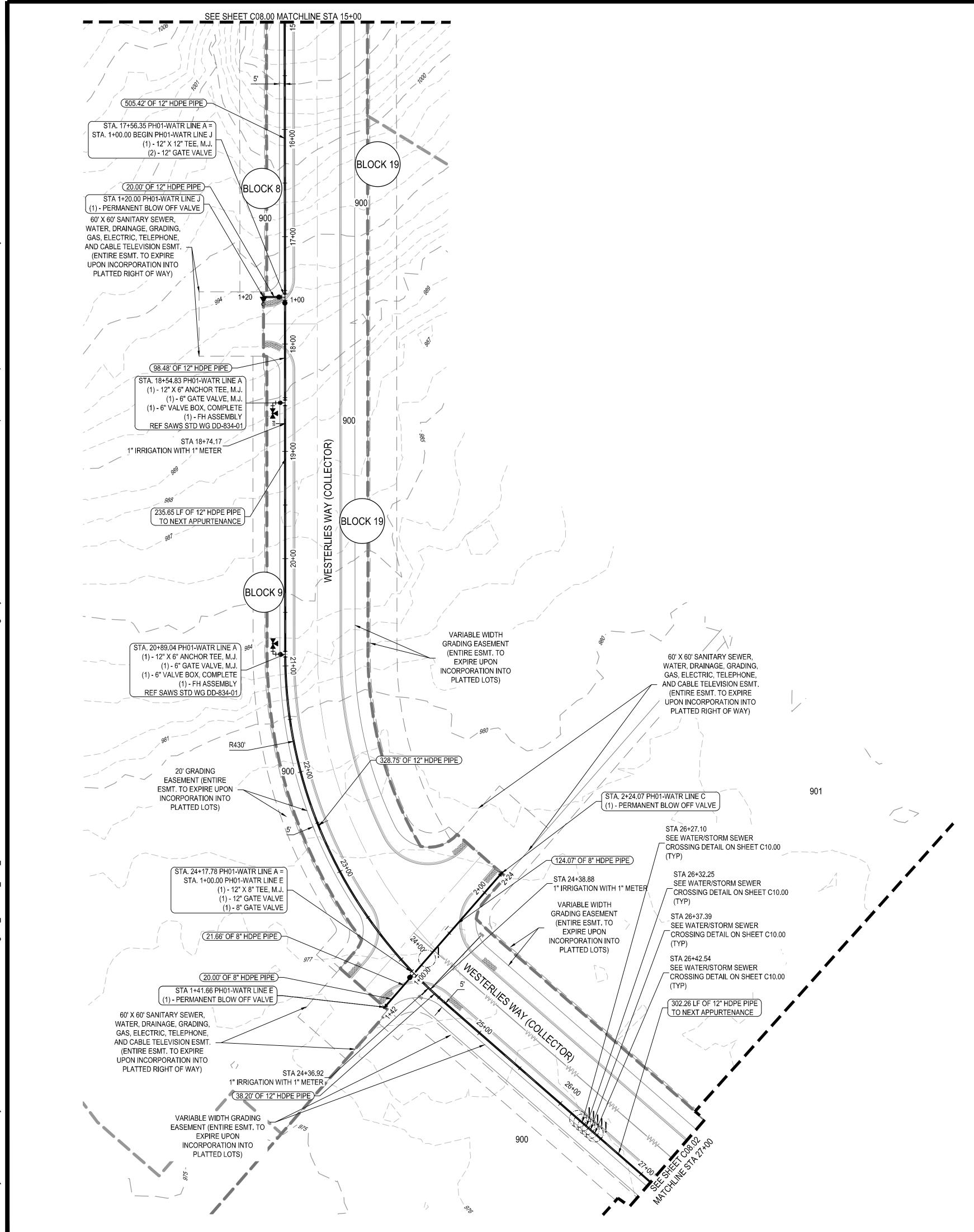
- 24. THE CONTRACTOR SHALL PRON SAWS STANDARD SPECIFICATIO SPECIFICATION ITEM NO. 864, "E WILL BE MADE UNDER THE APP STANDARD SPECIFICATIONS 86
- 25. PRIOR TO TIE-INS, ANY SHUTDC INSPECTION DIVISION AT 210-23 THE CONTRACTOR MUST ALSO THE PROJECT AND IT IS THE RE
- 26. ELEVATIONS POSTED FOR TOP ALLOWANCES AND ADJUSTMEN
- MANHOLE REMOVAL: WHERE EX REMOVED. (NSPI)
 SMART MANHOLE COVERS: THE
- 210-233-2934 OR JOSE A. MARTI WORKING ON THE PIPE OR MAN BE CHARGED TO THE CONTRAC
- 29. FLOW METERS IN MANHOLES: 1 MINIMUM OF 72 HOURS, NOT CO SAWS REMOVE THE FLOW MET THROUGH A CHANGE ORDER.

| | WER OVERFLOW (SSO) OCCURS AS A RESULT OF THEIR WORK. ALL ROL SHALL BE TRAINED ON PROPER RESPONSE. SHOULD AN SSO | DATE APR |
|--|--|---|
| | | |
| (RETURN CONTAINED SEWAGE TO THE COLLEC MATERIALS.) SEWER MAINS AND REMOVE ANY DEBRIS. REQUIREMENTS AS PER THE EPA CONSENT DEC VS DIRECTION) WITHIN 24 HOURS.) ADDRESS AN SSO IMMEDIATELY AND TO SAWS Y FINES FROM EPA. | TION SYSTEM IF POSSIBLE) AND PROPERLY DISPOSE OF CREE, INCLUDING LINE CLEANING AND TELEVISING THE AFFECTED S SATISFACTION, THEY WILL BE RESPONSIBLE FOR ALL COSTS WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE | |
| OVIDE BYPASS PUMPING OF SEWAGE AROUND TION ITEM NO. 865, "BYPASS PUMPING SMALL D , "BYPASS PUMPING LARGE DIAMETER SANITAR PPROPRIATE BID ITEM ASSOCIATED WITH SANIT 865 AND 864. DOWNS OF EXISTING FORCE MAINS OF ANY SIZ -233-3500 AND/OR SAWS PRODUCTION GROUPS SO PROVIDE A SEQUENCE OF WORK AS RELATE RESPONSIBILITY OF THE CONTRACTOR TO SEQ DP OF MANHOLES ARE FOR REFERENCE ONLY: I ENTS FOR TOP OF MANHOLES TO MATCH THE F | EACH SEGMENT OF PIPE TO BE REPLACED, IN ACCORDANCE WITH IAMETER SANITARY SEWER MAINS" AND STANDARD RY SEWER MAINS" AS APPLICABLE. PAYMENT FOR SUCH WORK TARY SEWER BYPASS PUMPING IN ACCORDANCE WITH SAWS TE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION AT LEAST TWO WEEKS OR MORE IN ADVANCE OF THE SHUTDOWN. ED TO THE TIE-INS; THIS IS AT NO ADDITIONAL COST TO SAWS OR | DESCRIPTION |
| RTINEZ AT 210-233-3071 A MINIMUM OF 72 HOURS ANHOLE, IN ORDER TO HAVE SAWS REMOVE TH ACTOR THROUGH A CHANGE ORDER. : THE CONTRACTOR SHALL NOTIFY BOBBY JOHI COUNTING WEEKENDS OR SAWS HOLIDAYS, BE | 210-704-SAWS (210-233-7297) AND EITHER AMERICA ESPINOZA AT S, NOT COUNTING WEEKENDS OR SAWS HOLIDAYS, BEFORE HE SMART COVER. ANY DAMAGE DONE TO THE SMART COVER WILL NSON AT 210-233-3493 OR ABEL BORUNDA AT 210-233-3704 A EFORE WORKING ON THE PIPE OR MANHOLE, IN ORDER TO HAVE THE FLOW METER WILL BE CHARGED TO THE CONTRACTOR | REV C C C |
| | | DESIGNED BY: AGS REVIEWED BY: KWH |
| | | DRAWN BY: AGS |
| | | BGE |
| | | BROWN & GAY ENGINEERS, INC. 7330 San Pedro, Suite 202 San Antonio, TX 78216 TEL: 210-581-3600 www.bgeinc.com TBPE Registration No. F-1046 |
| | | COWN & GAY ENGINEERS, IN 7330 San Pedro, Suite 202 San Antonio, TX 78216 TEL: 210-581-3600 www.bgeinc.com TBPE Registration No. F-1046 |
| | | SROWN & C 7330 S San J TEL: 210-5 TBPE R4 |
| | | ш |
| | | |
| | | |
| | | (f) |
| | | IOTES IOTES |
| | | HASE 1 AL NOTES |
| | | D PHASE 1 NERAL NOTES |
| | | WOOD PHASE 1 GENERAL NOTES |
| | | HERWOOD PHASE 1 IVIL GENERAL NOTES |
| | | EATHERWOOD PHASE 1 - CIVIL GENERAL NOTES |
| | | WEATHERWOOD PHASE 1 W - CIVIL GENERAL NOTES |
| | | WEATHERWOOD PHASE 1 W - CIVIL GENERAL NOTES |
| | | WEATHERWOOD PHASE 1 W - CIVIL GENERAL NOTES |
| | | W - CIVIL GENERAL NOTES |
| | SAVS PRESSURE ZONE 1170 | WEATHERWOOD PHASE 1 W - CIVIL GENERAL NOTES |
| | SAWS PRESSURE ZONE 1170 | \mathbb{A} |

- FULL ELECTRIC LAYOUT.

SAWS REQUIRES GCPS AND COUNTER PERMITS TO USE LEAD FREE (<0.25% LEAD) FIRE HYDRANTS





SEE SHEET C10.00 AND THE SAWS WEBSITE FOR UTILITY DETAILS

ELECTRIC PLANS SHOWN FOR SCHEMATIC PURPOSES ONLY. REFER TO CPS PLANS FOR FULL ELECTRIC LAYOUT.

NOTE: IF THE MAXIMUM STATIC PRESSURE EXCEEDS 80 PSI, A PRV WILL BE REQUIRED ON THE PROPERTY OWNER'S SIDE OF THE WATER METER.

FIRE HYDRANT LEAD FREE NOTE:

SAWS REQUIRES GCPS AND COUNTER PERMITS TO USE LEAD FREE (<0.25% LEAD) FIRE HYDRANTS

PROPOSED WATER MAIN SHALL BE:

HDPE PIPE WITH 4" TO 65" DIAMETER SHALL BE PE4710 SOLID WALL PIPE AND FITTINGS THAT ARE IN CONFORMANCE WITH ASTM F714, AWWA C901 AND C906, AND NSF 61 REQUIREMENTS STATED HEREIN

PIPE 6" AND LARGER DIAMETER SHALL BE A MINIMUM OF DR 11 (PRESSURE RATING OF 200 PSI) AND DUCTILE IRON PIPE SIZE (DIPs) OUTSIDE DIAMETER. ALL PIPE AND FITTINGS WILL BE HIGH DENSITY POLYETHYLENE PIPE AND MADE OF VIRGIN MATERIAL

ANCHORAGE/THRUST BLOCKING AND JOINT RESTRAINTS SHALL BE DONE IN ACCORDANCE WITH SAWS STANDARDS SPECIFICATION FOR CONSTRUCTION (ITEM NO. 839).

BACK FLOW PREVENTION DEVICES FOR RESIDENTIAL SUBDIVISIONS: ALL IRRIGATION SERVICES WITHIN RESIDENTIAL AREAS ARE REQUIRED TO HAVE BACK FLOW PREVENTION DEVICES.

PROPOSED WATER SERVICE SHALL BE: 3/4" COPPER SERVICE LINE WITH 5/8" METER

UTILITY NOTE:

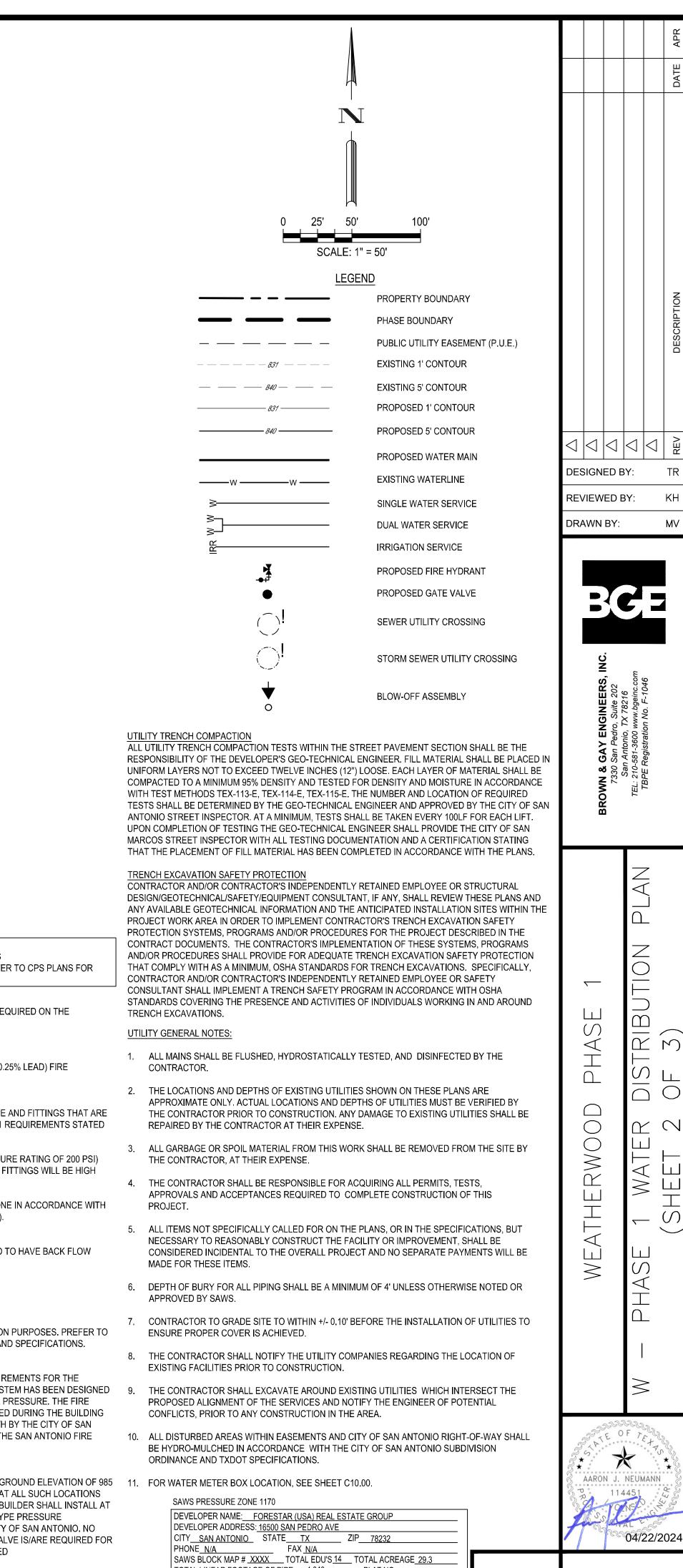
UTILITY SYMBOLS ARE NOT TO SCALE AND ARE ONLY FOR ILLUSTRATION PURPOSES. PREFER TO SAWS DETAILS ON THEIR WEBSITE FOR CONSTRUCTION STANDARDS AND SPECIFICATIONS.

FIRE FLOW NOTE:

IN AN EFFORT TO MEET THE CITY OF SAN ANTONIO'S FIRE FLOW REQUIREMENTS FOR THE PROPOSED RESIDENTIAL DEVELOPMENT, THE PUBLIC WATER MAIN SYSTEM HAS BEEN DESIGNED FOR A MINIMUM FIRE FLOW DEMAND OF 1,500 GPM AT 25 PSI RESIDUAL PRESSURE. THE FIRE FLOW REQUIREMENTS FOR INDIVIDUAL STRUCTURES WILL BE REVIEWED DURING THE BUILDING PERMIT PROCESS IN ACCORDANCE WITH THE PROCEDURES SET FORTH BY THE CITY OF SAN ANTONIO DIRECTOR OF DEVELOPMENT SERVICES DEPARTMENT AND THE SAN ANTONIO FIRE DEPARTMENT MARSHALL.

PRESSURE REDUCING VALVE NOTE:

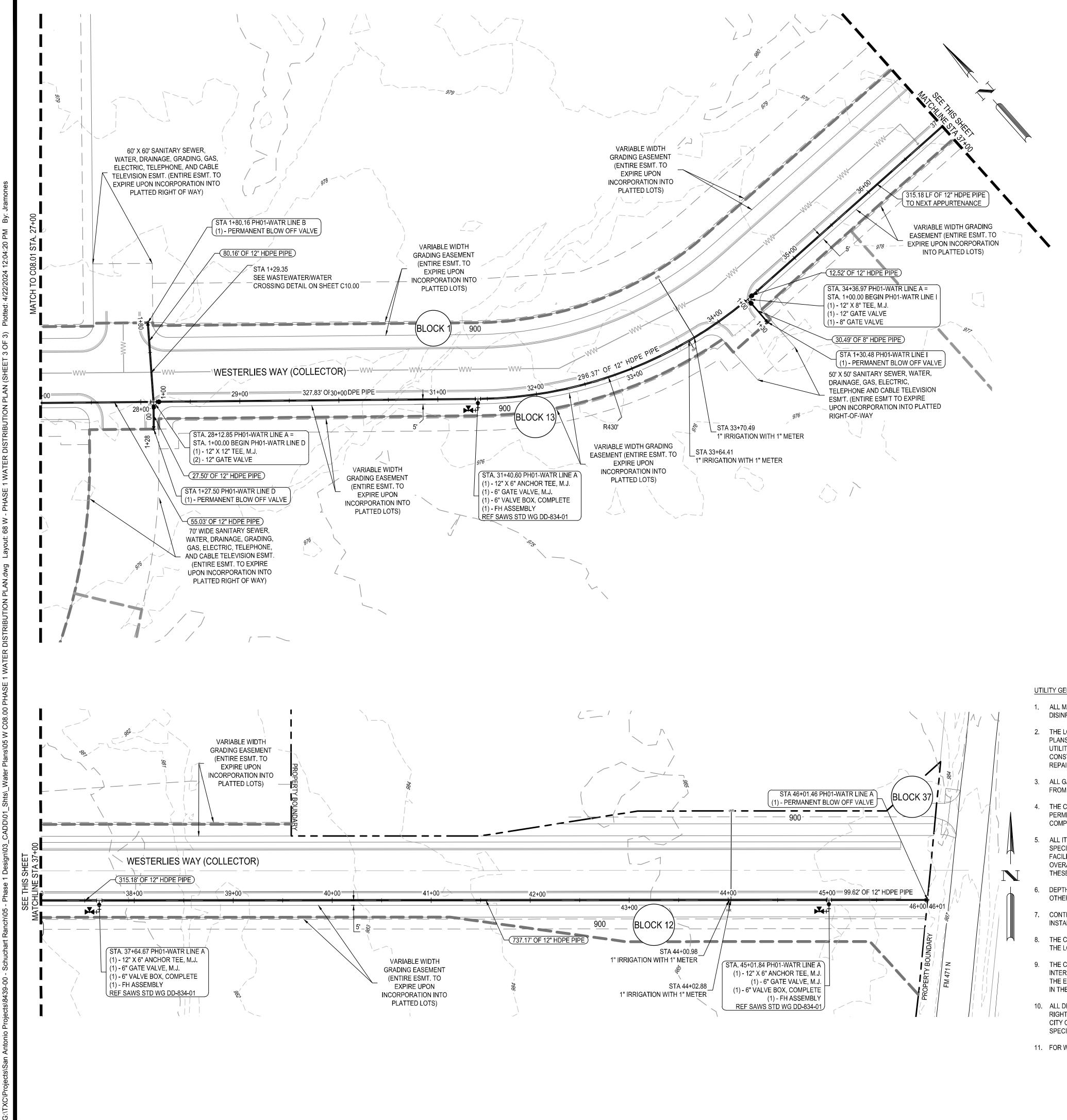
CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 985 11. FOR WATER METER BOX LOCATION, SEE SHEET C10.00. FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 985 FEET, THE DEVELOPER OR BUILDER SHALL INSTALL AT EACH LOT, ON THE CUSTOMERS SIDE OF THE METER, AN APPROVED TYPE PRESSURE REGULATOR IN CONFORMANCE WITH THE PLUMBING CODE OF THE CITY OF SAN ANTONIO. NO DUAL SERVICES ALLOWED FOR ANY LOT(S) IF PRESSURE REDUCING VALVE IS/ARE REQUIRED FOR SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS SHALL BE ALLOWED



 TOTAL LINEAR FOOTAGE OF PIPE
 4,843
 PLAT NO.
 22-11800271

 NUMBER OF LOTS
 0
 SAWS JOB NO.
 22-1128

C08.01



UTILITY GENERAL NOTES:

- 1. ALL MAINS SHALL BE FLUSHED, HYDROSTATICALLY TESTED, AND DISINFECTED BY THE CONTRACTOR.
- 2. THE LOCATIONS AND DEPTHS OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. ACTUAL LOCATIONS AND DEPTHS OF UTILITIES MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT THEIR EXPENSE.
- 3. ALL GARBAGE OR SPOIL MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, AT THEIR EXPENSE.
- 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.
- ALL ITEMS NOT SPECIFICALLY CALLED FOR ON THE PLANS, OR IN THE SPECIFICATIONS, BUT NECESSARY TO REASONABLY CONSTRUCT THE FACILITY OR IMPROVEMENT, SHALL BE CONSIDERED INCIDENTAL TO THE OVERALL PROJECT AND NO SEPARATE PAYMENTS WILL BE MADE FOR THESE ITEMS.
- 6. DEPTH OF BURY FOR ALL PIPING SHALL BE A MINIMUM OF 4' UNLESS OTHERWISE NOTED OR APPROVED BY SAWS.
- CONTRACTOR TO GRADE SITE TO WITHIN +/- 0.10' BEFORE THE
- 8. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES REGARDING
- 9. THE CONTRACTOR SHALL EXCAVATE AROUND EXISTING UTILITIES WHICH INTERSECT THE PROPOSED ALIGNMENT OF THE SERVICES AND NOTIFY THE ENGINEER OF POTENTIAL CONFLICTS, PRIOR TO ANY CONSTRUCTION IN THE AREA.
- 10. ALL DISTURBED AREAS WITHIN EASEMENTS AND CITY OF SAN ANTONIO RIGHT-OF-WAY SHALL BE HYDRO-MULCHED IN ACCORDANCE WITH THE CITY OF SAN ANTONIO SUBDIVISION ORDINANCE AND TXDOT SPECIFICATIONS.
- 11. FOR WATER METER BOX LOCATION DETAIL, SEE SHEET C10.00.

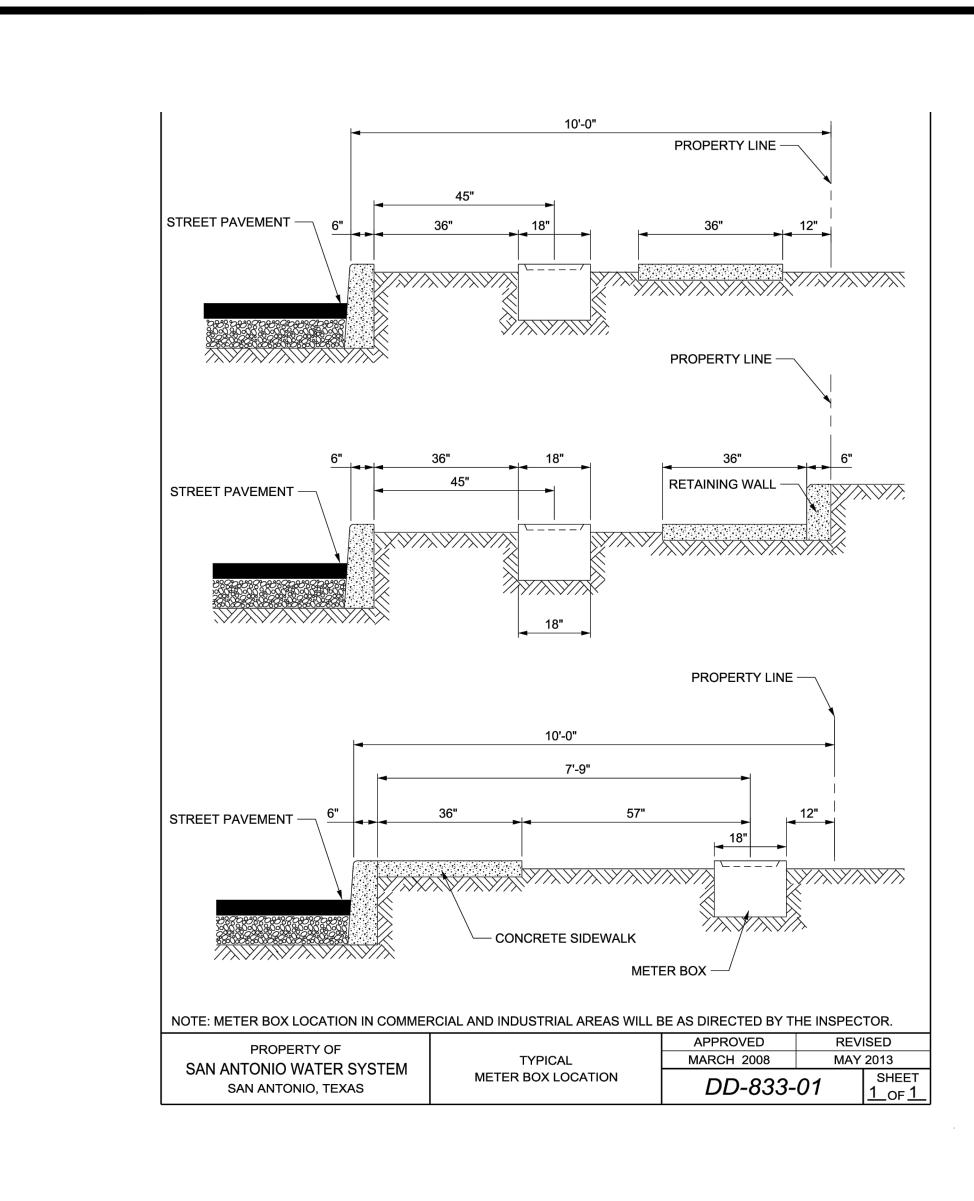
| 0 25 | 50' 100' | | APR |
|---|--|---|---|
| | SCALE: 1" = 50' | | DATE |
| | LEGEND | | |
| | PROPERTY BOUNDARY PHASE BOUNDARY PUBLIC UTILITY EASEMENT (P.U.E.) EXISTING 1' CONTOUR | | |
| 840 831 840 | EXISTING 5' CONTOUR PROPOSED 1' CONTOUR PROPOSED 5' CONTOUR | | |
| ww ≥ ≥ | PROPOSED WATER MAIN EXISTING WATERLINE SINGLE WATER SERVICE DUAL WATER SERVICE | | DESCRIPTION |
| | - IRRIGATION SERVICE PROPOSED FIRE HYDRANT PROPOSED GATE VALVE SEWER UTILITY CROSSING | | |
| | STORM SEWER UTILITY CROSSING | | □ □ ↓ ↓ |
| ★ | BLOW-OFF ASSEMBLY | REVIEWED BY | |
| NOTE: NOTE: | THE STREET PAVEMENT SECTION SHALL BE TECHNICAL ENGINEER. FILL MATERIAL SHALL BE ELVE INCHES (12") LOOSE. EACH LAYER OF 55% DENSITY AND TESTED FOR DENSITY AND 5 TEX-113-E, TEX-114-E, TEX-115-E. THE NUMBER TERMINED BY THE GEO-TECHNICAL ENGINEER REET INSPECTOR. AT A MINIMUM, TESTS SHALL MPLETION OF TESTING THE GEO-TECHNICAL COS STREET INSPECTOR WITH ALL TESTING THAT THE PLACEMENT OF FILL MATERIAL HAS ANS. DENTLY RETAINED EMPLOYEE OR STRUCTURAL ISULTANT, IF ANY, SHALL REVIEW THESE PLANS IN AND THE ANTICIPATED INSTALLATION SITES MPLEMENT CONTRACTOR'S TRENCH OGRAMS AND/OR PROCEDURES FOR THE ENTS. THE CONTRACTOR'S IMPLEMENTATION OF RES SHALL PROVIDE FOR ADEQUATE TRENCH WITH AS A MINIMUM, OSHA STANDARDS FOR CTOR AND/OR CONTRACTOR'S INDEPENDENTLY HALL IMPLEMENT A TRENCH SAFETY PROGRAM ING THE PRESENCE AND ACTIVITIES OF | BROWN & GAY ENGINEERS, INC. 7330 San Pedro, Suite 202 San Antonio, TX 78216 | TEL: 210-581-3600 www.bgeinc.com TBPE Registration No. F-1046 |
| SEE SHEET C10.00 AND THE SAWS WEBSITE I ELECTRIC PLANS SHOWN FOR SCHEMATIC PL FULL ELECTRIC LAYOUT. NOTE: IF THE MAXIMUM STATIC PRESSURE EXCEEDS 80 F PROPERTY OWNER'S SIDE OF THE WATER METER. FIRE HYDRANT LEAD FREE NOTE: SAWS REQUIRES GCPS AND COUNTER PERMITS TO HYDRANTS PROPOSED WATER MAIN SHALL BE: | URPOSES ONLY. REFER TO CPS PLANS FOR PSI, A PRV WILL BE REQUIRED ON THE | SE 1 | RIBUTION PLAN |
| HDPE PIPE WITH 4" TO 65" DIAMETER SHALL BE PE47 IN CONFORMANCE WITH ASTM F714, AWWA C901 ANI HEREIN | D C906, AND NSF 61 REQUIREMENTS STATED | PHAS | |
| PIPE 6" AND LARGER DIAMETER SHALL BE A MINIMUM AND DUCTILE IRON PIPE SIZE (DIPS) OUTSIDE DIAME DENSITY POLYETHYLENE PIPE AND MADE OF VIRGIN | TER. ALL PIPE AND FITTINGS WILL BE HIGH | \bigcirc | |
| ANCHORAGE/THRUST BLOCKING AND JOINT RESTRA SAWS STANDARDS SPECIFICATION FOR CONSTRUCT BACK FLOW PREVENTION DEVICES FOR RESIDENTIA | TION (ITEM NO. 839). L SUBDI∨ISIONS: | RWOC | ATER |
| ALL IRRIGATION SERVICES WITHIN RESIDENTIAL ARE PREVENTION DEVICES. PROPOSED WATER SERVICE SHALL BE: | EAS ARE REQUIRED TO HAVE BACK FLOW | | |
| 3/4" COPPER SERVICE LINE WITH 5/8" METER | | EATHE | |
| UTILITY SYMBOLS ARE NOT TO SCALE AND ARE ONL' SAWS DETAILS ON THEIR WEBSITE FOR CONSTRUCT | | \geq | ASE |
| FIRE FLOW NOTE: IN AN EFFORT TO MEET THE CITY OF SAN ANTONIO'S PROPOSED RESIDENTIAL DEVELOPMENT, THE PUBLI FOR A MINIMUM FIRE FLOW DEMAND OF 1,500 GPM A FLOW REQUIREMENTS FOR INDIVIDUAL STRUCTURE PERMIT PROCESS IN ACCORDANCE WITH THE PROC ANTONIO DIRECTOR OF DEVELOPMENT SERVICES D DEPARTMENT MARSHALL. | IC WATER MAIN SYSTEM HAS BEEN DESIGNED IT 25 PSI RESIDUAL PRESSURE. THE FIRE S WILL BE REVIEWED DURING THE BUILDING EDURES SET FORTH BY THE CITY OF SAN | | |
| PRESSURE REDUCING VALVE NOTE: CONTRACTOR TO VERIFY THAT NO PORTION OF THE FEET WHERE THE STATIC PRESSURE WILL NORMALL WHERE THE GROUND LEVEL IS BELOW 985 FEET, TH EACH LOT, ON THE CUSTOMERS SIDE OF THE METER REGULATOR IN CONFORMANCE WITH THE PLUMBING DUAL SERVICES ALLOWED FOR ANY LOT(S) IF PRESS SUCH LOT(S), ONLY SINGLE SERVICE CONNECTIONS | LY EXCEED 80 PSI. AT ALL SUCH LOCATIONS E DEVELOPER OR BUILDER SHALL INSTALL AT R, AN APPROVED TYPE PRESSURE G CODE OF THE CITY OF SAN ANTONIO. NO SURE REDUCING VALVE IS/ARE REQUIRED FOR | AARON J. N | T + + |
| SAWS PRESSURE ZONE 1170 DEVELOPER NAME: <u>FORESTAR (USA) REAL ES</u> DEVELOPER ADDRESS: <u>16500 SAN PEDRO AVE</u> CITY <u>SAN ANTONIO</u> STATE <u>TX</u> PHONE N/A | STATE GROUP ZIP 78232 | SS SS STA | 4/22/2024 |

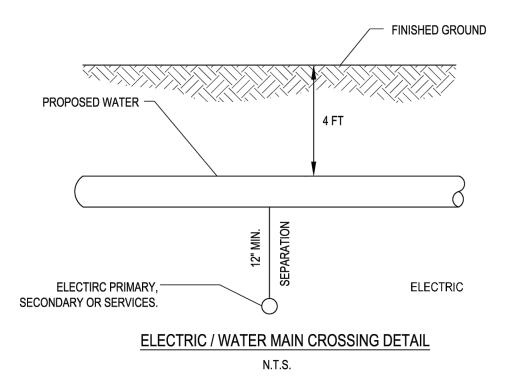
INSTALLATION OF UTILITIES TO ENSURE PROPER COVER IS ACHIEVED.

THE LOCATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION.

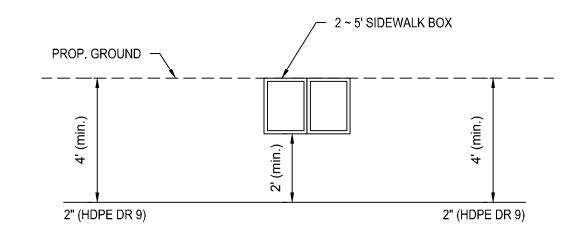
| SAWS PRESSURE ZONE 1170 |
|--|
| DEVELOPER NAME: FORESTAR (USA) REAL ESTATE GROUP |
| DEVELOPER ADDRESS: 16500 SAN PEDRO AVE |
| CITY <u>SAN ANTONIO</u> STATE <u>TX</u> ZIP <u>78232</u> |
| PHONE <u>N/A</u> FAX <u>N/A</u> |
| SAWS BLOCK MAP # XXXX TOTAL EDU'S 14 TOTAL ACREAGE 29.3 |
| TOTAL LINEAR FOOTAGE OF PIPE |
| NUMBER OF LOTS 0 SAWS JOB NO. 22-1128 |
| |

C08.02









NOTE: ALL RETAINER GLANDS SHALL BE MEG-A-LUG TYPE WATER/DRAIN CROSSING DETAIL "A"

NOT TO SCALE

/- 8 ~ 6'X3' CULVERT PROP. GROUND -8" (C900 PVC DR18) 9.0 LF ~ 8" 5' (TYP.) 5' (TYP.) 9.0 LF ~ 8" (C900 PVC DR18) (C900 PVC DR18) 1-8" ¹/₈ BEND, M.J. 1-8" ¹/₈ BEND, M.J. 63.5 LF OF 24" ⁻ 1-8" ¹/₈ BEND, M.J. 4-8" RETAINER GLAND 1-8" ¹/₈ BEND, M.J. STEEL CASING 4-8" RETAINER GLAND └── 63.5 LF ~ 8" DI PIPE NOTE: ALL RETAINER GLANDS SHALL BE MEG-A-LUG TYPE WATER/DRAIN CROSSING DETAIL "B" NOT TO SCALE

| | | | | | DATE APR |
|----------------|---------------------------|---------------------------|--|------------------------------|----------------------|
| | | | | | DESCRIPTION |
| ⊲ des | | | ⊲ sy: | \triangleleft | GS KEV |
| REV DRA | (IEW | 'ED E BY: | 3Y: | | WH AGS |
| | BDOWN & GAV ENGINEEDS INC | 7330 San Pedro, Suite 202 | Zan Antonio, 1X / 8216 TEL: 210-581-3600 www.bgeinc.com | IBYE REGISTRATION NO. 7-1040 | |
| | WEATHERWOOD PHASE 1 | | | W - CIVIL UIILIY DEIAILS | |
| "Intri Provent | AARO C | E 0 N J. 112 | F 7 NEUK 1451 NS AL 2 04/2 | 22/2 | ** ****/۱۱ 024 |

| SAWS PRESSURE ZONE 1170 | |
|--|--|
| DEVELOPER NAME: FORESTAR (USA) REAL ESTATE GROUP | |
| DEVELOPER ADDRESS: 16500 SAN PEDRO AVE | |
| CITY <u>SAN ANTONIO</u> STATE <u>TX</u> ZIP <u>78232</u> | |
| PHONE_N/A FAX_ <u>N/A</u> | |
| SAWS BLOCK MAP # <u>XXXX</u> TOTAL EDU'S <u>14</u> TOTAL ACREAGE <u>29.3</u> | |
| TOTAL LINEAR FOOTAGE OF PIPE <u>4,843</u> PLAT NO. <u>22-11800271</u> | |
| NUMBER OF LOTS 0 SAWS JOB NO. 22-1128 | |