

SUMMARY NOTES:

DEVELOPER/OWNER:	ADRIAN TAMES HYG HOMES 84 NE LOOP 410, SUITE 242 SAN ANTONIO, TX 78216
ENGINEER:	BGE, INC., TBPE-1046 CONTACT: JAVIER CASTELLO, P.E. EMAIL: JCASTELLO@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

FLOODPLAIN INFORMATION

NO 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.

FEMA PANEL: 48029C0220G EFF. 9/29/2010  
TRACT SIZE: 7.36 ACRES  
TYPE: SINGLE FAMILY RESIDENTIAL

GENERAL NOTES

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

STREETS - CITY OF SAN ANTONIO  
WATER - SAN ANTONIO WATER SYSTEM - SAWS  
DRAINAGE - CITY OF SAN ANTONIO  
WASTEWATER - SAN ANTONIO WATER SYSTEM - SAWS

CONTACT INFORMATION FOR COORDINATION AND EMERGENCY

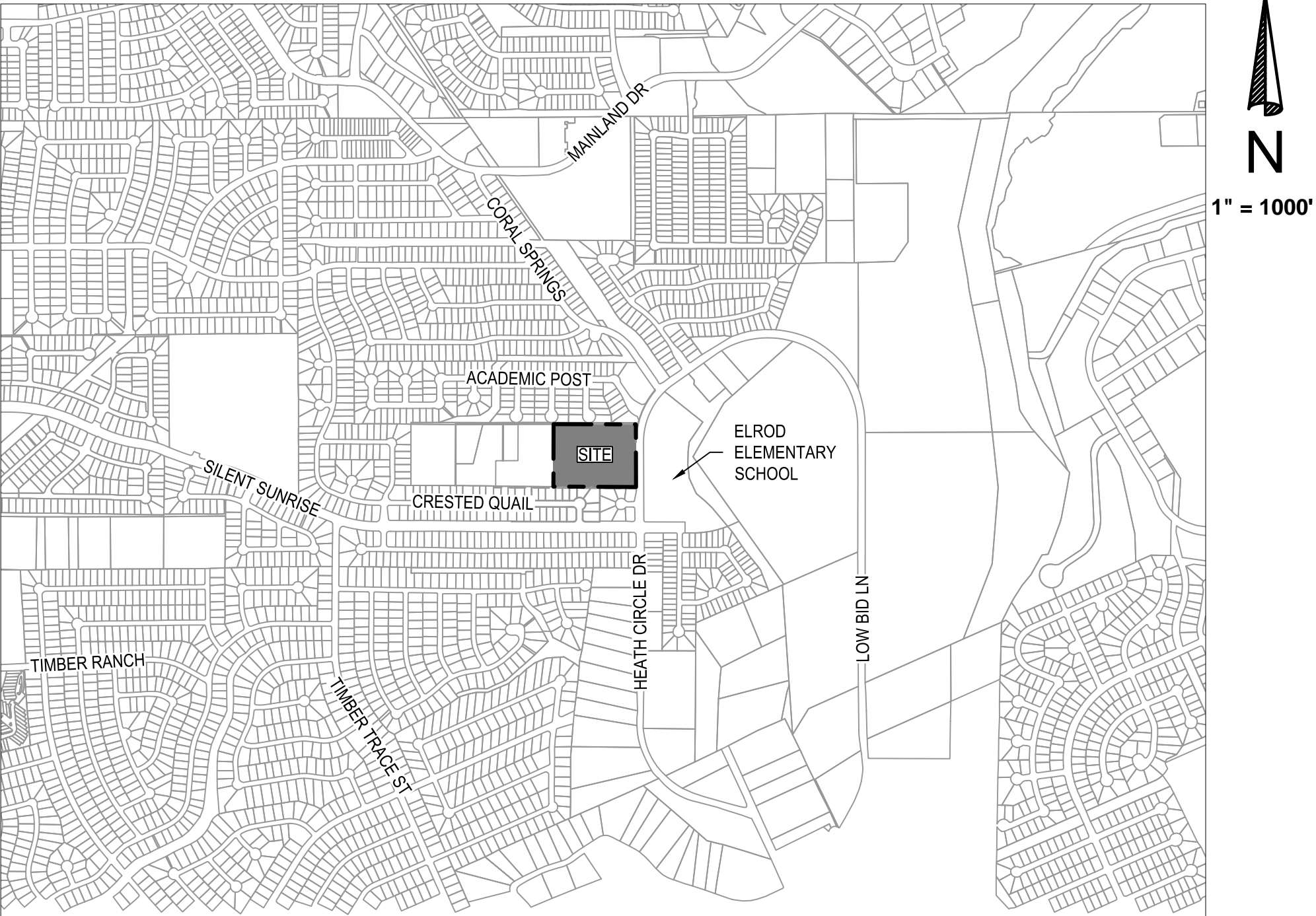
CITY OF SAN ANTONIO: (210) 207-1111  
ELECTRIC UTILITY: CPS ENERGY (210) 353-4357  
WATER UTILITY: SAN ANTONIO WATER SYSTEM-SAWS (210) 704-7297  
WASTEWATER UTILITY: SAN ANTONIO WATER SYSTEM-SAWS (210) 704-7297

CIVIL CONSTRUCTION DRAWINGS:  
HERON VALLEY PHASE 1  
CITY OF SAN ANTONIO

WATER, SEWER, STREET & DRAINAGE IMPROVEMENTS

APRIL 2025

VICINITY MAP



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

NOT FOR CONSTRUCTION

SUBMITTED BY



**BGE, Inc.**  
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San Antonio, TX 78216  
Tel: 210-581-3600    www.browngay.com  
TBPE Registration No. F-1046

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

DATE:

PLAT NO. 24-11800389

HERON VALLEY PHASE 1

Sheet Number	Sheet Title
C00.00	COVER SHEET
C01.00	CIVIL GENERAL NOTES
C01.10	EXISTING CONDITIONS PLAN
C01.11	DEMOLITION PLAN
C02.00	EROSION & SEDIMENTATION CONTROL PLAN
C02.10	EROSION & SEDIMENTATION CONTROL DETAILS
C02.20	TREE PROTECTION PLAN
C02.21	DETAILED TREE PROTECTION PLAN (SHEET 1 OF 4)
C02.22	DETAILED TREE PROTECTION PLAN (SHEET 2 OF 4)
C02.23	DETAILED TREE PROTECTION PLAN (SHEET 3 OF 4)
C02.24	DETAILED TREE PROTECTION PLAN (SHEET 4 OF 4)
C02.30	TREE PROTECTION TABLES (SHEET 1 OF 2)
C02.31	TREE PROTECTION TABLES (SHEET 2 OF 2)
C02.32	TREE PROTECTION CALCULATIONS
C02.40	TREE PROTECTION PLAN DETAILS
C03.00	OVERALL GRADING PLAN
C03.20	DETENTION POND PLAN
C04.00	UTILITY PLAN
C05.00	OVERALL WASTEWATER PLAN
C05.10	WASTEWATER LINE A PLAN & PROFILE STA 1+00 TO 6+50
C05.11	WASTEWATER LINE A PLAN & PROFILE STA 6+50 TO END
C05.12	WASTEWATER LINE B PLAN & PROFILE
C06.00	WATER DISTRIBUTION PLAN
C06.01	WATER CROSSING DETAIL
C07.00	PARROT VALLEY PLAN AND PROFILE
C07.01	CONDOR VALLEY PLAN AND PROFILE
C07.02	CANARY VALLEY PLAN AND PROFILE
C07.03	FLAMINGO VALLEY PLAN AND PROFILE
C07.04	ROBIN VALLEY PLAN AND PROFILE
C07.10	KNUCKLE DETAILS
C08.00	STORM DRAIN COLLECTION PLAN
C08.10	STORM LINE A PLAN AND PROFILE
C08.11	STORM LINE B PLAN AND PROFILE
C08.20	STREET & DRAINAGE DETAILS (SHEET 1 OF 5)
C08.21	STREET & DRAINAGE DETAILS (SHEET 2 OF 5)
C08.22	STREET & DRAINAGE DETAILS (SHEET 3 OF 5)
C08.23	STREET & DRAINAGE DETAILS (SHEET 4 OF 5)
C08.24	STREET & DRAINAGE DETAILS (SHEET 5 OF 5)
C09.00	SIGNAGE PLAN
C09.01	SIGNAGE DETAILS (SHEET 1 OF 2)
C09.02	SIGNAGE DETAILS (SHEET 2 OF 2)

SAWS PRESSURE ZONE: 1111

DEVELOPER NAME: HYG HOMES  
DEVELOPER ADDRESS: 84 NE LOOP 410, SUITE 242  
CITY: SAN ANTONIO, STATE: TX, ZIP: 78216  
PHONE: (210) 581-3600, FAX: N/A  
SAWS BLOCK MAP #: N/A, TOTAL EDU'S: 42, TOTAL ACREAGE: 7.361  
TOTAL LINEAR FOOTAGE OF PIPE: 2,078, PLAT NO.: 24-11800389  
NUMBER OF LOTS: 40, SAWS JOB NO.: 24-1154

MIDDLE COLLECTION AND TREATMENT AREA (MCTA)

DEVELOPER NAME: HYG HOMES  
DEVELOPER ADDRESS: 84 NE LOOP 410, SUITE 242  
CITY: SAN ANTONIO, STATE: TX, ZIP: 78216  
PHONE: (210) 581-3600, FAX: N/A  
SAWS BLOCK MAP #: N/A, TOTAL EDU'S: 40, TOTAL ACREAGE: 7.361  
TOTAL LINEAR FOOTAGE OF PIPE: 2,078, PLAT NO.: 24-11800389  
NUMBER OF LOTS: 40, SAWS JOB NO.: 24-1625



Know what's below.  
Call before you dig.

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.



GENERAL CONSTRUCTION :

1. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF SAN ANTONIO STANDARD SPECIFICATIONS FOR CONSTRUCTION JUNE 2008, OR LATEST.

2. NO EX-GRATIA PAYMENT SHALL BE ALLOWED FOR WORK CALLED FOR ON THE PLANS, BUT NOT INCLUDED IN THE BID PROPOSAL. THIS INCIDENTAL WORK WILL BE REQUIRED AND SHALL BE INCLUDED IN THE PAY ITEM TO WHICH IT RELATES.

3. 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 TIME AS THE CONDITIONS ARE CORRECTED.

6. IF THE NEED ARISES, ADDITIONAL BARRICADES AND DIRECTIONAL DEVICES MAY BE ORDERED BY THE TRAFFIC ENGINEERING REPRESENTATIVE AT THE CONTRACTOR'S EXPENSE.

7. DUE TO FEDERAL REGULATIONS TITLE 49, PART 192.171 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.

8. CONTRACTOR SHALL NOTIFY THE CITY INSPECTOR TWENTY-FOUR (24) HOURS PRIOR TO BACKFILL OF ANY UTILITY TRENCHES TO SCHEDULE FOR DENSITY TEST AS REQUIRED

9. CONTRACTOR SHALL PRESERVE ALL CONSTRUCTION STAKES, MARKS, ETC. IF ANY ARE DESTROYED OR REMOVED BY THE CONTRACTOR OR HIS EMPLOYEES, THEY SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

10. 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 DRAINAGE207-8048

COSA SIGNAL OPERATIONS207-7720 / 207-7765

TEXAS 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 LIMITS OF EXISTING ARTIFICIAL OR NATURAL DRAINAGE.

13. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIAL IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD PLAIN DEVELOPMENT PERMIT.

14. THE CONTRACTOR SHALL MAINTAIN ALL ADJOINING STREETS AND TRAVELED ROUTES FREE FROM SPILLED AND / OR TRACKED CONSTRUCTION MATERIALS AND / OR DEBRIS

15. 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 BE EXTENDED.

16. 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 CONTAMINER, 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 CoSA APPROVAL.

THE CONTRACTOR MUST STOP THE EXCAVATION IMMEDIATELY AND CONTACT THE CoSA INSPECTOR. THE CONTRACTOR CANNOT BEGIN EXCAVATION ACTIVITIES WITHOUT WRITTEN PERMISSION FROM THE CITY.

17. 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.

18. CONTRACTOR SHALL NOT REMOVE OR ADJUST ANY VIA FACILITIES. THE CONTRACTOR MUST CONTACT VIA FOURTEEN DAYS PRIOR, FOR THE REMOVAL OF BENCHES, TELE POLES OR ANY OTHER VIA FACILITIES THAT MAY BE PRESENT. PLEASE PROVIDE THIRTY DAYS PRIOR NOTICE FOR SHELTER REMOVAL (STATIONHOUSE NOS. (210) 362-2155 OR (210) 362-2056). THE CONTRACT WILL BE LIABLE FOR ANY DAMAGES TO VIA FACILITIES NOT REMOVED BY VIA. THE CONTRACTOR OUS MUST 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 BEEN COMPLETED AND APPROVED.

2. TREE PROTECTION FENCING SHALL BE REQUIRED. TREE PROTECTION FENCING SHALL BE INSTALLED, MAINTAINED AND REPAIRED BY THE CONTRACTOR DURING SITE CONSTRUCTION, AT LEAST A SIX - INCH LAYER OF COARSE MULCH SHALL BE PLACED AND MAINTAINED OVER THE REQUIRED 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 GUIDANCE.

4. ROOTS WILL BE CUT WITH A ROCK SAW OR BY HAND, NOT BY AN EXCAVATOR OR OTHER ROAD CONSTRUCTION EQUIPMENT.

5. ALL CURB AND SIDEWALK WORK SHALL USE ALTERNATIVE CONSTRUCTION TECHNIQUES TO MINIMIZE EXTENSIVE ROOT DAMAGE TO TREES (REFER TO DETAILS).

6. EXPOSED ROOTS SHALL BE COVERED AT THE END OF THE DAY USING TECHNIQUES SUCH AS COVERING WITH SOIL, MULCH, OR WET BURLAP.

7. NO EQUIPMENT, VEHICLES OR MATERIALS SHALL OPERATE OR BE STORED WITHIN THE ROOT PROTECTION ZONE OF ANY TREE NEAR THE PROJECT. ROOT PROTECTION ZONE IS 1 FOOT OF RADIUS PER INCH OF TREE 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. 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. NO WIRES, NAILS OR OTHER MATERIAL MAY BE ATTACHED TO PROTECTED TREES.

10. TREES, 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- 171, CITY CODE) ONLY AFTER APPROVAL FROM THE CAPITAL PROJECTS MANAGEMENT THROUGH THE INSPECTOR.

11. NO EXCESSIVE TREE TRIMMING WILL BE PERMITTED.

12. 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. 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 MAINTENANCE AS NEEDED ON THE PROJECT.

14. ANY TREE REMOVAL SHALL BE APPROVED BY THE CITY ARBORIST. (207 - 8053)

15. 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 TWELVE (12) MONTHS SHALL BE REPLACED WITH A TREE OF EQUAL SIZE AND SPECIES.

ACCESSIBILITY REQUIREMENTS:

1. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN VEHICULAR AND PEDESTRIAN ACCESS AT ALL TIMES TO LOCAL RESIDENCES AND BUSINESSES.

2. 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 MADE BY THE RESIDENTS.

4. 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.

UTILITY GENERAL NOTES :

1. FOR PURPOSES OF RECORD DRAWINGS FOR THE OWNER, THE CONTRACTOR SHALL FURNISH THE OWNER WITH ALL THE FINAL MEASUREMENTS, TAPS, AND LENGTH OF SERVICE CONNECTIONS.

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 HIS EXPENSE.

3. ALL GARBAGE OR SPOIL MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, AT HIS EXPENSE.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS AND ACCEPTANCES REQUIRED TO COMPLETE CONSTRUCTION OF THIS PROJECT.

5. 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. CONTRACTOR TO GRADE SITE TO WITHIN +/- 0.10' BEFORE THE INSTALLATION OF UTILITIES TO ENSURE PROPER COVER IS ACHIEVED.

7. CONTRACTOR SHALL VERIFY THE EXACT LOCATION OF UNDERGROUND UTILITIES AND DRAINAGE STRUCTURES WHETHER SHOWN ON THE PLANS OR NOT.

8. THE CONTRACTOR SHALL NOTIFY THE GOVERNMENTAL AND/OR UTILITY COMPANIES REGARDING THE LOCATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION.

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 MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS PROJECT SHALL BE IN ACCORDANCE WITH THE LATEST CONSTRUCTION STANDARDS OF T.C.E.Q. UTILITIES.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL OR BETTER CONDITION FROM DAMAGE DONE TO EXISTING FENCES, CURBS, STREETS, DRIVEWAYS, LANDSCAPING AND STRUCTURES.

12. THE CONTRACTOR SHALL AVOID CUTTING ROOTS LARGER THAN ONE INCH IN DIAMETER WHEN EXCAVATING NEAR EXISTING TREES. EXCAVATION IN VICINITY OF TREES SHALL PROCEED WITH CAUTION.

13. CONTRACTOR SHALL ESTABLISH VEGETATION IN ALL DISTURBED AREAS INCLUDING RIGHT-OF-WAY, STEEP SLOPES, AND DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED.

EROSION CONTROL NOTES :

1. CONSTRUCTION ENTRANCE/EXIT LOCATION, CONCRETE WASHOUT PIT AND CONSTRUCTION EQUIPMENT STORAGE AREA ARE TO BE DETERMINED IN THE FIELD. THEY ARE SHOWN ON THIS PLAN FOR ILLUSTRATIVE PURPOSES ONLY. EROSION CONTROL MEASURES SHALL BE IMPLEMENTED AROUND CONCRETE WASH PIT AND MATERIAL STORAGE AREA BASED ON FINAL LOCATION AND SIZE.

2. CONTRACTOR MAY MODIFY STORM WATER CONTROLS TO ACHIEVE THE DESIRED INTENT. ANY CHANGES ARE TO BE NOTED, SIGNED AND DATED BY THE RESPONSIBLE PARTY IN THE TPDES BOOK (NO SEPARATE PAY ITEM).

3. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL STORM WATER CONTROLS.

4. CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY QUESTIONS REGARDING THE INTENT OF THIS PLAN.

5. IF REQUIRED, CONTRACTOR SHALL FILE NOIS (NOTICE OF CONTENT) AND NOTS (NOTICE OF TERMINATION) FOR THIS PROJECT. REFER TO TPDES FOR PROPER POSTING REQUIREMENTS AND DOCUMENTS.

6. CONTRACTOR SHALL PERFORM INSPECTIONS OF CONTROLS ONCE EVERY FOURTEEN (14) DAYS AND WITHIN TWENTY-FOUR (24) HOURS OF A STORM EVENT OF 0.5 INCHES OR GREATER OR AS AN ALTERNATIVE METHOD CONTRACTOR SHALL PERFORM INSPECTIONS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS.

7. A COPY OF THIS PLAN, TPDES BOOK AND INSPECTION REPORTS MUST REMAIN AT THE CONSTRUCTION SITE AT ALL TIMES.

8. EROSION CONTROL AND STABILIZATION MEASURES MUST BE INITIATED IMMEDIATELY IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY CEASED AND WILL NOT RESUME FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. STABILIZATION MEASURES THAT PROVIDE A PROTECTIVE COVER MUST BE INITIATED IMMEDIATELY IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED. THE TERM "IMMEDIATELY" IS USED TO DEFINE THE DEADLINE FOR INITIATING STABILIZATION MEASURES. IN THE CONTEXT OF THIS REQUIREMENT, "IMMEDIATELY" MEANS AS SOON AS PRACTICABLE, BUT NO LATER THAN THE END OF THE NEXT WORK DAY, FOLLOWING THE DAY WHEN THE EARTH-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED.

9. ALL DEBRIS AND CONSTRUCTION MATERIALS SHALL BE REMOVED PRIOR TO FINAL INSPECTION AND THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY. SAN ANTONIORETAINS THE RIGHT TO REQUIRE THE PLACEMENT OF A COMMERCIAL DUMPSITER FOR COLLECTION OF DEBRIS IF THE SITE IS NOT PROPERLY MAINTAINED. THE COST ASSOCIATED WILL BE THE RESPONSIBILITY OF THE CONTRACTOR AND/OR OWNER.

10. DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM PRODUCTS BASED UPON TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

11. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ADJACENT ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

12. REFER TO THE TPDES BOOK FOR THIS PROJECT FOR MORE INFORMATION/ DETAILS.

GRADING NOTES :

1. ALL GRADES AND CONTOURS SHOWN ARE FINAL. TOP OF FINISH SURFACE ELEVATIONS, UNLESS OTHERWISE NOTED.

2. POSITIVE DRAINAGE SHALL BE MAINTAINED ON ALL SURFACE AREAS WITHIN THE SCOPE OF THIS PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS. CONTRACTOR TO TAKE PRECAUTIONS NOT TO ALLOW ANY PONDING OF WATER.

3. CONTRACTOR TO OBTAIN GRADES SHOWN HEREON ± TO ONE-TENTH (0.10) FOOT.

4. ALL DISTURBED AREAS SHALL BE RE-VEGETATED WITH THE PROJECT SPECIFICATIONS.

5. ALL EARTHEN SLOPES SHALL BE A MAXIMUM OF 3:1 SIDESLOPES.

6. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS CONTRACT WHERE NOT SPECIFICALLY COVERED IN THE PROJECT SPECIFICATIONS SHALL CONFORM TO ALL APPLICABLE LOCAL CODES AND TEXAS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS (LATEST EDITION).

7. CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING TO ITS ORIGINAL, OR BETTER, CONDITION ANY DAMAGES DONE TO EXISTING BUILDINGS, UTILITIES, FENCES, PAVEMENT, CURBS, OR DRIVEWAYS.

8. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY QUESTIONS THAT MAY ARISE CONCERNING THE INTENT, PLACEMENT, OR LIMITS OF DIMENSIONS OR GRADES NECESSARY FOR CONSTRUCTION OF THIS PROJECT.

9. TREE PROTECTION SHALL BE PERFORMED IN ACCORDANCE WITH PROJECT PLANS.

10. CONTRACTOR SHALL GRADE AREAS OUTSIDE SITE BASED ON MAXIMUM SLOPES OF 3:1 UNLESS OTHERWISE NOTED.

11. ALL EXCAVATION IS UNCLASSIFIED.

12. SITE AREAS REQUIRING FILL PLACEMENT SHALL BE SCARIFIED AND MOISTURE ADJUSTED TO WITHIN ± 3% OF OPTIMUM MOISTURE CONTENT. COMPACT SUBGRADE TO 85% MAXIMUM DRY DENSITY.

13. CONTRACTOR TO REQUIRE GEOTECHNICAL REPORT AS PROVIDED BY OWNER.

14. CONTRACTOR IS REFERENCED TO HAVE A TCEQ TPDES PERMIT ISSUED BY TCEQ. A COPY OF THE PERMIT SHALL BE POSTED ON THE JOBSITE PER TCEQ REQUIREMENTS.

15. CONTRACTOR SHALL HYDRO MULCH ALL DISTURBED AREAS NOT INCLUDED IN LANDSCAPE PLANS AND GUARANTEE COVERAGE ACCORDING TO CONSTRUCTION SPECIFICATIONS.

16. ALL LOTS WITH FILL SHALL BE COMPACTED IN ACCORDANCE WITH THE 796 PROCEDURE THAT MEETS THE REQUIREMENTS OF THE FHA DATA SHEET. DOCUMENTATION AND EVIDENCE OF COMPACTION SHALL BE FURNISHED TO THE ENGINEER & OWNER.

GENERAL NOTES :

1. ANY EXISTING UTILITIES, PAVEMENT, CURBS, SIDEWALKS, STRUCTURES, TREES, ETC., THAT ARE DAMAGED OR REMOVED SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER.

2. THE CONTRACTOR SHALL VERIFY ALL DEPTHS AND LOCATIONS OF EXISTING UTILITIES PRIOR TO ANY CONSTRUCTION. ANY DISCREPANCIES WITH THE CONSTRUCTION PLANS FOUND IN THE FIELD SHALL BE BROUGHT IMMEDIATELY TO THE ATTENTION OF THE ENGINEER.

3. THE CONTRACTOR SHALL CLEAN ALL STORM DRAIN STRUCTURES, PIPES, CULVERTS, ETC. PRIOR TO THE FINAL PAYMENT.

4. ALL AREAS DISTURBED OR EXPOSED DURING CONSTRUCTION SHALL BE RE-VEGETATED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. RE-VEGETATION OF ALL DISTURBED OR EXPOSED AREAS SHALL CONSIST OF SODDING OR SEEDING, AT THE CONTRACTOR'S OPTION. HOWEVER, THE TYPE OF RE-VEGETATION MUST EQUAL OR EXCEED THE TYPE OF VEGETATION PRESENT BEFORE CONSTRUCTION, UNLESS OTHERWISE REQUESTED BY THE PROPERTY OWNER.

5. WHEN CONSTRUCTION IS BEING CARRIED OUT WITHIN THE EASEMENTS, THE CONTRACTOR SHALL CONFINE HIS WORK TO WITHIN THE PERMANENT AND ANY TEMPORARY EASEMENTS. PRIOR TO FINAL ACCEPTANCE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL TRASH AND DEBRIS WITHIN THE PERMANENT AND TEMPORARY EASEMENTS. CLEAN-UP SHALL BE TO THE SATISFACTION OF THE ENGINEER.

6. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL APPLY FOR AND SECURE ALL PROJECT PERMITS FROM THE APPROPRIATE AUTHORITIES.

7. WHERE DISCREPANCIES ARISE BETWEEN PLANS AND SPECIFICATIONS, PLANS GOVERN UNLESS OTHERWISE NOTED.

SEQUENCE OF CONSTRUCTION :

1. CALL ALL AFFECTED PARTIES AT LEAST 48 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION TO SCHEDULE A PRE-CONSTRUCTION CONFERENCE AND SECURE ALL REQUIRED PERMITS.

2. INSTALL TEMPORARY EROSION CONTROLS AND TREE PROTECTION FENCING PRIOR TO ANY CLEARING AND GRUBBING. NOTIFY SAN ANTONIO WHEN INSTALLED.

3. INSTALL ALL STORM DRAINAGE SYSTEMS.

4. COMPLETE ALL CONSTRUCTION AND INSTALLATIONS WITHIN THE SITE.

5. COMPLETE PERMANENT EROSION CONTROL AND RESTORATION OF SITE VEGETATION.

6. REMOVE AND DISPOSE OF TEMPORARY EROSION CONTROL AND TREE PROTECTION.

7. CONTRACTOR TO SCHEDULE FINAL WALK-THROUGH WITH SAN ANTONIO OFFICIAL.

8. COMPLETE ANY NECESSARY FINAL DRESS-UP.

9. FINAL ACCEPTANCE.

SAWS PRESSURE ZONE: 1111

DEVELOPER NAME: HYV HOMES

DEVELOPER ADDRESS: 84 NE LOOP 410, SUITE 242

CITY: SAN ANTONIO, STATE: TX, ZIP: 78216

PHONE: (210)966-2025 FAX N/A

SAWS BLOCK MAP # : NA TOTAL EDUS'42 TOTAL ACREAGE 7.361

TOTAL LINEAL FOOTAGE OF PIPE 2,078 PLAT NO. 24-11800389

NUMBER OF LOTS 40 SAWS JOB NO. 24-1154

MIDDLE COLLECTION AND TREATMENT AREA (MCTA)

DEVELOPER NAME: HYV HOMES

DEVELOPER ADDRESS: 84 NE LOOP 410, SUITE 242

CITY: SAN ANTONIO, STATE: TX, ZIP: 78216

PHONE: (210)966-2025 FAX N/A

SAWS BLOCK MAP # : NA TOTAL EDUS'40 TOTAL ACREAGE 7.361

TOTAL LINEAL FOOTAGE OF PIPE 2,078 PLAT NO. 24-11800389

NUMBER OF LOTS 40 SAWS JOB NO. 24-1625

SAWS GENERAL CONSTRUCTION :

1. 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 280.

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).

2. 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.

3. THE CONTRACTOR SHALL OBTAIN SAWS STANDARD DETAILS FROM SAWS WEBSITE, [HTTPS://WWW.SAWS.ORG/BUSINESS\\_CENTER/SPECS](https://www.saws.org/business_center/specs). UNLESS OTHERWISE NOTED WITHIN DESIGN PLANS.

4. THE CONTRACTOR IS TO MAKE ARRANGEMENTS WITH THE SAWS CONSTRUCTION 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.

5. LOCATION AND DEPTH OF EXISTING UTILITIES AND SERVICE LATERALS SHOWN ON THE PLANS ARE UNDERSTOOD TO BE APPROXIMATE. ACTUAL LOCATION 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.

6. 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](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

7. 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.

8. 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.

9. THE CONTRACTOR SHALL COMPLY WITH CITY OF SAN ANTONIO OR OTHER GOVERNING MUNICIPALITY'S TREE ORDINANCES WHEN EXCAVATING NEAR TREES.

10. THE CONTRACTOR SHALL NOT PLACE ANY WASTE MATERIALS IN THE 100-YEAR FLOOD PLAIN WITHOUT FIRST OBTAINING AN APPROVED FLOOD 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](mailto: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](mailto:CONSTWORKREQ@SAWS.ORG)

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

12. COMPACTON NOTE (ITEM 804): THE CONTRACTOR SHALL BE RESPONSIBLE FOR MEETING THE COMPACTON REQUIREMENTS ON ALL TRANCH BACKFILL AND FOR PAYING FOR THE TESTS PERFORMED BY A THIRD PARTY. COMPACTON 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 :

1. 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.

2. FOR WATER MAINS 12" OR HIGHER- SAWS EMERGENCY OPERATIONS CENTER (210) 233-2014

3. 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".

4. 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 CAPPLUG. (NSPI)

5. SUITABLE ANCHORAGE/THRUST 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 DB-839 SERIES AND ITEM NO. 839. IN THE SAWS STANDARD SPECIFICATIONS FOR CONSTRUCTION.

6. ALL VALVES SHALL READ "OPEN RIGHT".

7. PRIUS REQUIRED: CONTRACTOR TO VERIFY THAT NO PORTION OF THE TRACT IS BELOW GROUND ELEVATION OF 926 FEET WHERE THE STATIC PRESSURE WILL NORMALLY EXCEED 80 PSI. AT ALL SUCH LOCATIONS WHERE THE GROUND LEVEL IS BELOW 926 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 LOTS(1) 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).

8. 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.

9. 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.

10. 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.

11. 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 SEWER NOTES :

1. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT NO SANITARY SEWER OVERFLOW (SSO) OCCURS AS A RESULT OF THEIR WORK. ALL CONTRACTOR PERSONNEL RESPONSIBLE FOR SSO PREVENTION AND CONTROL SHALL BE TRAINED ON PROPER RESPONSE. SHOULD AN SSO OCCUR, THE CONTRACTOR SHALL:

A. IDENTIFY THE SOURCE OF THE SSO AND NOTIFY SAWS EMERGENCY OPERATIONS CENTER IMMEDIATELY AT 210-704-SAWS (210-704-7297). PROVIDE THE ADDRESS OF THE SPILL AND AN ESTIMATED VOLUME OR FLOW.

B. ATTEMPT TO ELIMINATE THE SOURCE OF THE SSO.

C. CONTAIN SEWAGE FROM THE SSO TO THE EXTENT OF PREVENTING A POSSIBLE CONTAMINATION OF WATERWAYS.

D. CLEAN UP SPILL SITE/RETURN CONTAINED SEWAGE TO THE COLLECTION SYSTEM IF POSSIBLE) AND PROPERLY DISPOSE OF CONTAMINATED SOIL/MATERIALS.

E. CLEAN THE AFFECTED SEWER MAINS AND REMOVE ANY DEBRIS.

F. MEET ALL POST-SSO REQUIREMENTS AS PER THE EPA CONSENT DECREE, INCLUDING LINE CLOSING AND TELEVISIONING THE AFFECTED SEWER MAINS (AT SAWS DIRECTION) WITHIN 24 HOURS.

SHOULD THE CONTRACTOR FAIL TO ADDRESS AN SSO IMMEDIATELY AND TO SAWS SATISFACTION, THEY WILL BE RESPONSIBLE FOR ALL COSTS INCURRED BY SAWS, INCLUDING ANY FINES FROM EPA, TCEQ AND/OR ANY OTHER FEDERAL, STATE OR LOCAL AGENCIES. NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE FOR THIS WORK. ALL WORK SHALL BE DONE ACCORDING TO GUIDELINES SET BY THE TCEQ AND SAWS.

2. IF BYPASS PUMPING IS REQUIRED, THE CONTRACTOR SHAL PERFORM SUCH WORK IN ACCORDANCE WITH SAWS STANDARD SPECIFICATION FOR WATER AND SANITARY SEWER CONSTRUCTION, ITEM NO. 864, "BYPASS PUMPING".

3. PRIOR TO TIE-INS, ANY SHUTDOWNS OF EXISTING FORCE MAINS OF ANY SIZE MUST BE COORDINATED WITH THE SAWS CONSTRUCTION INSPECTION DIVISION AT 210-233-3500 AND/OR SAWS PRODUCTION GROUPS AT LEAST TWO WEEKS OR MORE 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.

4. SEWER PIPE WHERE WATER LINE CROSSES SHALL BE 160 PSI AND MEET REQUIREMENTS OF ASTM D2241, TAC 217.53 AND TCEQ 290.44(6)(4)(B). CONTRACTOR OR THE DEVELOPER SHALL PROVIDE THE 160 PSI PRESSURE TEST CENTER 48 HRS PRIOR TO THE TIE-IN.

5. ELEVATIONS POSTED FOR TOP OF MANHOLES ARE FOR REFERENCE ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAKE ALLOWANCES AND ADJUSTMENTS FOR TOP OF MANHOLES TO MATCH THE FINISHED GRADE OF THE PROJECT'S IMPROVEMENTS (NSPI).

6. SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER: ALL SPILLS, OVERFLOWS, OR DISCHARGES OF WASTEWATER, RECYCLED WATER, PETROLEUM PRODUCTS, OR CHEMICALS MUST BE REPORTED IMMEDIATELY TO THE SAWS INSPECTOR ASSIGNED TO THE COUNTER PERMIT OR GENERAL CONSTRUCTION PERMIT (GCP). THIS REQUIREMENT APPLIES TO EVERY SPILL, OVERFLOW, OR DISCHARGE REGARDLESS OF SIZE.

7. MANHOLE AND ALL PIPE TESTING (INCLUDING THE TV INSPECTION) MUST BE PERFORMED AND PASSED PRIOR TO FINAL FIELD ACCEPTANCE BY SAWS CONSTRUCTION INSPECTION DIVISION, AS PER THE SAWS SPECIFICATION FOR WATER AND SANITARY SEWER CONSTRUCTION.

8. ALL PVC PIPE OVER 14 FEET OF COVER SHALL BE EXTRA STRENGTH WITH MINIMUM PIPE STIFFNESS OF 115 PSI.

PLAT NUMBER  
24-11800389

DATE

APR

DESCRIPTION

REV

DESIGNED BY: JDC

REVIEWED BY: OR

DRAWN BY: JDC

BGE, INC.

7030 S. Alamo Road, Suite 202  
San Antonio, TX 78246  
Tel.: 210-581-5600 www.bgeinc.com  
TBE Registration No. F-1046

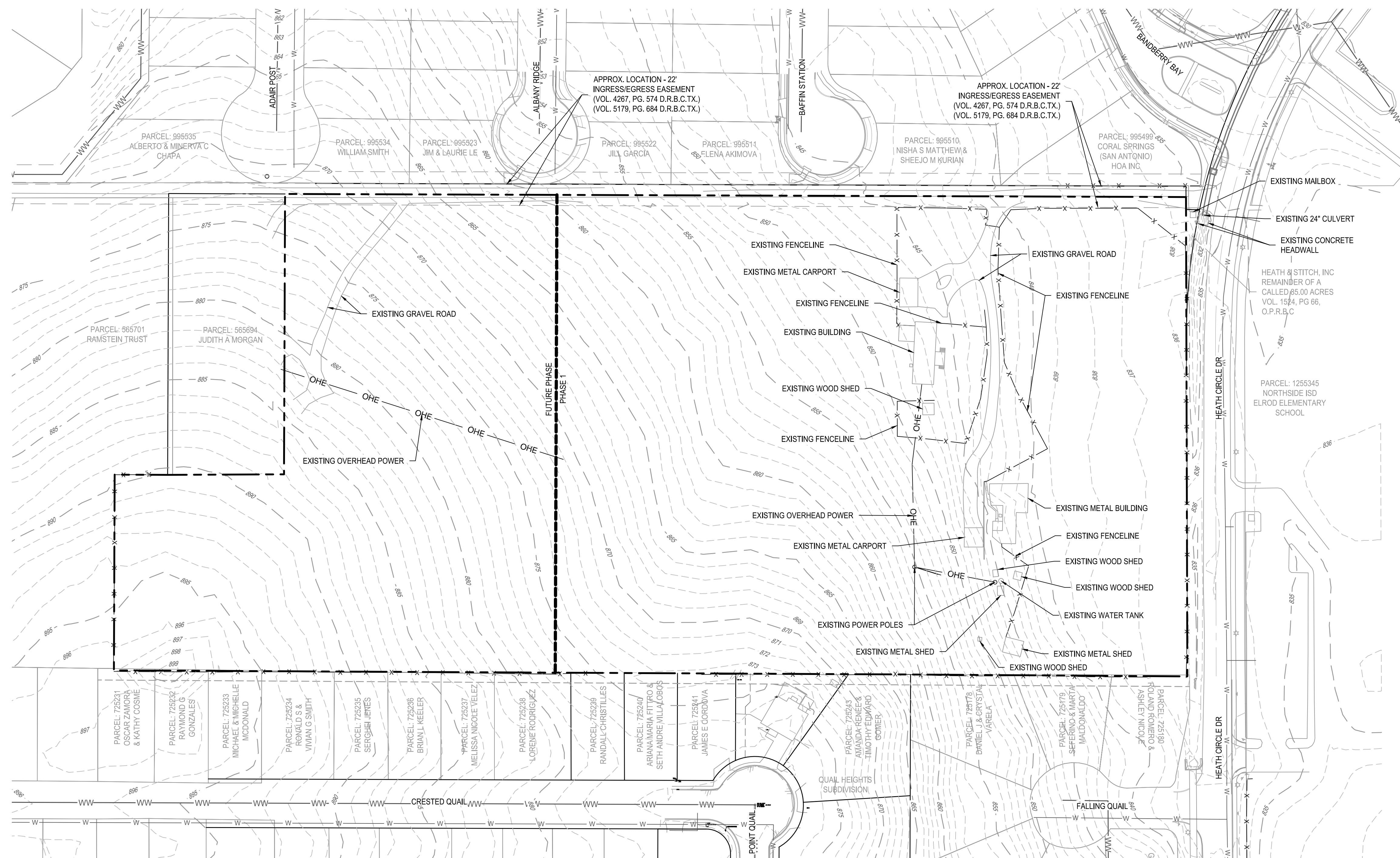
HERON VALLEY PHASE 1

CIVIL GENERAL NOTES

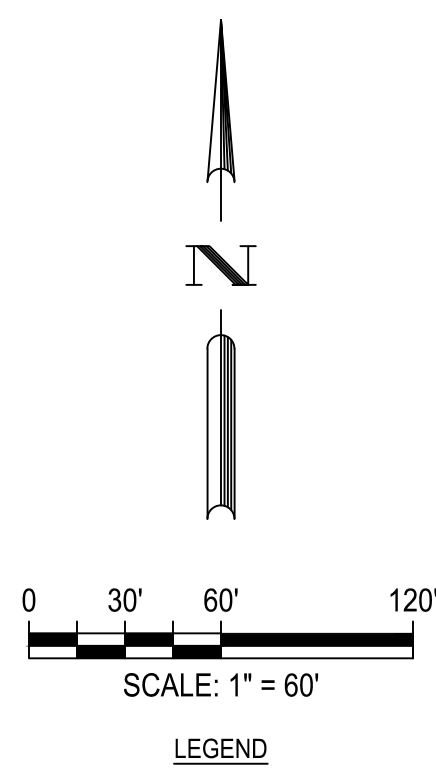
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SHEET  
C01.00





PLAT NUMBER  
24-11800389



	PROPERTY BOUNDARY
	EASEMENT
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	EXISTING WASTEWATER
	EXISTING WATER
	EXISTING STORM DRAIN
	EXISTING OVERHEAD POWER
	EXISTING FENCE LINE

## NOTES

1. BEARING ORIENTATION IS BASED ON THE TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NAD 83.
2. DRAWING IS IN SURFACE VALUES.



**BGE, INC.**  
7330 San Pedro, Suite 202  
San Antonio, TX 78216  
TEL: 210-581-3600 [www.browning.com](http://www.browning.com)

HERON VALLEY PHASE 1

## EXISTING CONDITIONS PLAN

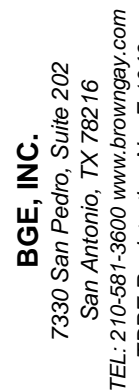
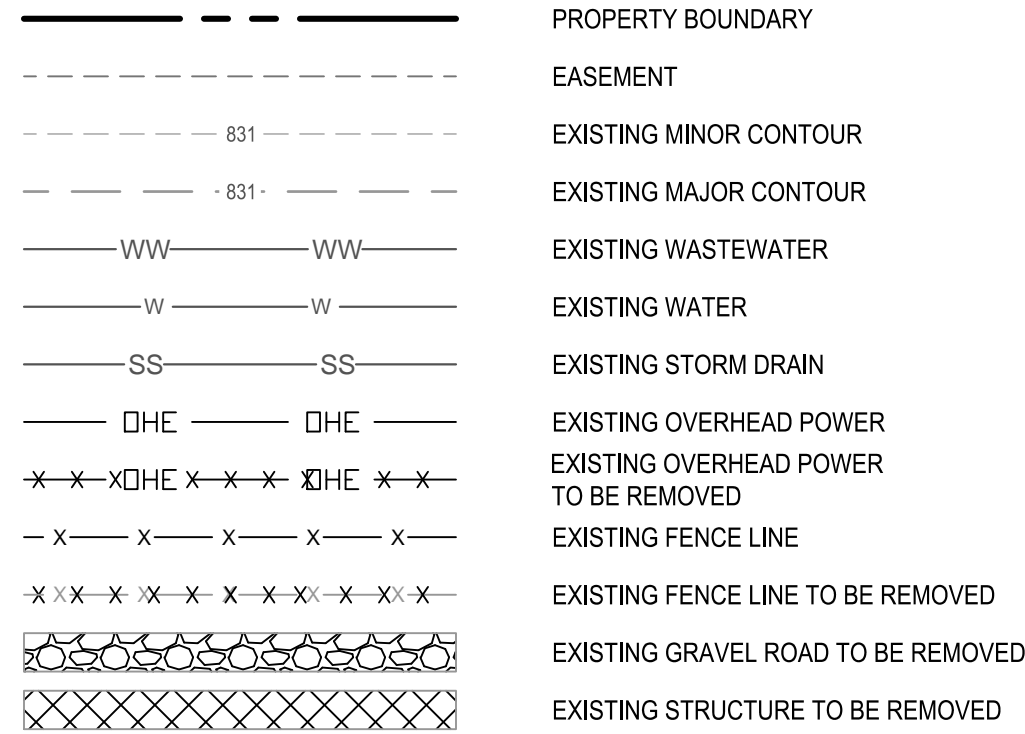
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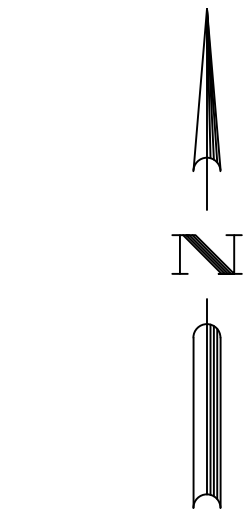
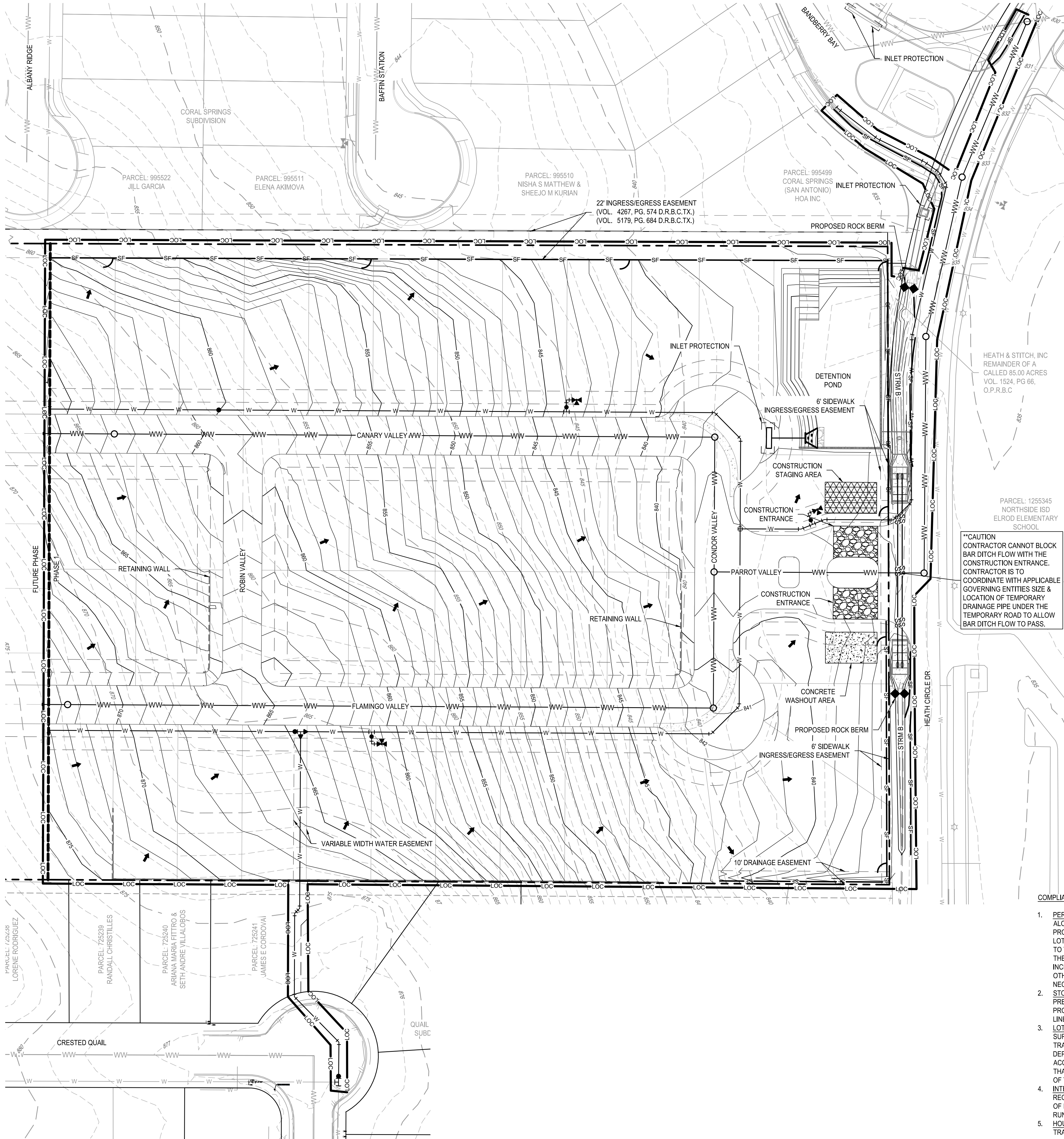
DESIGNED BY:	JDC
REVIEWED BY:	OR
DRAWN BY:	JDC







G:\TXC\Projects\San Antonio Projects\2936-00 - Heron Valley\01 - Unit V03\_CADD\01 - Shis\02.00 EROSION & SEDIMENTATION CONTROL PLAN.dwg Layout: 4/7/2025 10:45:38 AM By: Calderon



0 20' 40' 80'  
SCALE: 1" = 40'

LEGEND

- PROPERTY BOUNDARY
- PHASE BOUNDARY
- EASEMENT
- EXISTING MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- PROPOSED MINOR CONTOUR
- PROPOSED MAJOR CONTOUR
- LIMITS OF CONSTRUCTION
- SILT FENCE
- SILT FENCE/LIMITS OF CONSTRUCTION
- FLOW ARROW
- CONSTRUCTION ENTRANCE
- CONCRETE WASHOUT AREA
- CONSTRUCTION STAGING AREA
- INLET PROTECTION
- ROCK BERM
- J HOOKS

EROSION AND SEDIMENTATION NOTES:

- ALL SWPPP AND BEST MANAGEMENT PRACTICES (BMPs) SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH TEXAS COMMISSION ON ENVIRONMENTAL QUALITY.
- SWPPP SIGN SHALL BE DISPLAYED AT ENTRANCE/EXIT LOCATION. ENTRANCE/EXIT, CONCRETE WASHOUT PIT AND CONSTRUCTION EQUIPMENT STORAGE AREA ARE TO BE DETERMINED IN THE FIELD.
- CONTRACTOR MAY MODIFY STORM WATER CONTROLS TO ACHIEVE THE DESIRED INTENT. ANY CHANGES ARE TO BE NOTED, SIGNED AND DATED BY THE RESPONSIBLE PARTY IN THE SWPPP BOOK.
- CONTRACTOR IS RESPONSIBLE FOR MAINTAINING ALL STORM WATER CONTROLS.
- CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER OF ANY QUESTIONS REGARDING THE INTENT OF THIS PLAN.
- CONTRACTOR IS REQUIRED TO FILE NOIS (NOTICE OF INTENT) AND NOTS (NOTICE OF TERMINATION) FOR THIS PROJECT. REFER TO NPDES FOR PROPER POSTING REQUIREMENTS AND DOCUMENTS.
- CONTRACTOR SHALL PERFORM INSPECTIONS OF CONTROLS ONCE EVERY FOURTEEN (14) DAYS AND WITHIN TWENTY-FOUR (24) HOURS OF A STORM EVENT. OF 0.5 INCHES OR GREATER OR AS AN ALTERNATIVE METHOD CONTRACTOR SHALL PERFORM INSPECTIONS AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS.
- A COPY OF THIS PLAN, SWPPP BINDER AND INSPECTION REPORTS MUST REMAIN AT THE CONSTRUCTION SITE AT ALL TIMES.
- BARE SOILS SHALL HAVE STABILIZATION MEASURES INSTALLED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHERE CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED FOR MORE THAN 21 DAYS.
- ALL DISTURBED OR EXPOSED AREAS SUBJECT TO EROSION SHALL BE STABILIZED WITH MULCH FOR TEMPORARY VEGETATIVE COVER. NO AREA, SUBJECT TO EROSION SHALL BE LEFT DISTURBED AND UNSUITABLE FOR PERIODS LONGER THAN IS ABSOLUTELY NECESSARY TO CARRY OUT THAT PORTION OF THE CONSTRUCTION WORK, OR 1 WEEK AFTER THE SOIL HAS BEEN DISTURBED, WHICHEVER IS LESS.
- DUST ON THE SITE SHALL BE CONTROLLED. THE USE OF MOTOR OILS AND OTHER PETROLEUM PRODUCTS BASED UPON TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.
- ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ADJACENT ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.
- INSTALL SILT FENCES AS SHOWN ON THE PLANS AND WHEREVER STORM WATER COLLECTS OR EXITS THE PROJECT. INSTALL ROCK BERM DIKES AT ALL CURB NILETS AS SHOWN ON THE PLANS.
- BACKFILL THE UTILITY TRENCHES IN A TIMELY MANNER TO MINIMIZE EROSION.
- SOIL STOCKPILES LEFT OVER A PERIOD OF SEVEN DAYS SHALL BE COVERED WITH SOIL RETENTION BLANKETS AND SILT FENCE SHALL BE ERCTED AROUND THE PERIMETER OF STOCKPILE MATERIAL.
- WHEN THE PROJECT AREA HAS STABILIZED AND ALL CONSTRUCTION IS COMPLETED AND ACCEPTED, REMOVE ALL CONTROLS.
- FINAL STABILIZATION IS ACCOMPLISHED WHEN VEGETATION AT THE DISTURBED AREAS HAS ACHIEVED 70% OF THE BACKGROUND NATIVE VEGETATION.
- CONTRACTOR TO COORDINATE WITH THE OWNER'S REPRESENTATIVE FOR LOCATION OF STAGING AREA.
- ACCESSIBLE SYMBOL IS FOR REFERENCE ONLY. DO NOT PROVIDE MARKING ON SPACE.

CONTRACTOR/BUILDERS RESPONSIBILITY:

- INSTALL NEEDED EROSION AND SEDIMENT CONTROL PRACTICES PRIOR TO ANY LAND DISTURBANCE TO PREVENT EXCESSIVE SEDIMENT FROM LEAVING THE SITE.
- CONTACT A T.C.E.Q. INSPECTOR TO ANSWER ANY QUESTIONS REGARDING SITE PLAN AND TO REVIEW A COMPLETED WORKSHEET.
- PERIODIC INSPECTION AND MAINTENANCE ARE VITAL TO THE PERFORMANCE OF EROSION AND SEDIMENT CONTROLS. IT IS RECOMMENDED THAT ALL TEMPORARY EROSION CONTROLS BE INSPECTED WEEKLY AND AFTER EVERY RAINFALL.
- MAINTENANCE: ESC (EROSION SEDIMENT CONTROLS) SHOULD BE ROUTINELY INSPECTED AND MAINTAINED UNTIL SITE IS PERMANENTLY VEGETATED. SOMETIMES ROUTINE INSPECTIONS MAY SHOW A NEED FOR ADJUSTMENTS OR ADDITIONAL ESCs.
- CONTACT A T.C.E.Q. INSPECTOR WHEN CONSTRUCTION IS COMPLETE AND THE SITE HAS BEEN STABILIZED WITH PERMANENT VEGETATION OR OTHER APPROVED METHODS.
- REVEGETATE THE SITE. PREVENT EROSION ON INDIVIDUAL LOTS WITH GROUND COVER. EXISTING TREES AND VEGETATION SHOULD BE PROTECTED TO HELP MAINTAIN A STABLE GROUND SURFACE AND PREVENT LOSS OF VALUABLE TOPSOIL. EROSION CONTROL BLANKETS, MATTING AND MULCHES CAN HELP STABILIZE THE AREA UNTIL PERMANENT VEGETATION IS ESTABLISHED. THE SITE NEEDS TO HAVE AT LEAST 80 PERCENT COVER OF PERMANENT VEGETATION BEFORE ESCs CAN BE REMOVED.

ALL DISTURBED AREAS SHALL BE PERMANENTLY SEEDDED OR OTHERWISE STABILIZED WITHIN 14 CALENDAR DAYS AFTER FINAL GRADING OR WHERE TEMPORARY CONSTRUCTION ACTIVITY HAS CEASED FOR MORE THAN 21 DAYS

COMPLIANCE CHECKLIST:

- PERIMETER CONTROLS: INSTALL ESCs (EROSION SEDIMENT CONTROLS) ALONG THE BACK OF THE CURB AND ALONG THE LOT LINE OF ADJACENT PROPERTIES, WHICH ARE DOWNHILL AND RECEIVE RUNOFF FROM YOUR LOT. FOLLOWING SIDEWALK INSTALLATION, ESCs SHOULD BE REMOVED TO THE BACK OF THE SIDEWALK TO PREVENT SEDIMENT FROM REACHING THE SIDEWALK. MAINTAIN ESCs TO ENSURE PROPER FUNCTION, INCLUDING REPAIR OR REPLACEMENT OF TORN, DEGRADED OR OTHERWISE INEFFECTIVE MATERIALS. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE PROTECTION.
- STOCKPILES: INSTALL SEDIMENT CONTROLS AROUND STOCKPILES TO PREVENT SEDIMENT FROM REACHING THE STREET AND ADJACENT PROPERTIES. LOCATE STOCKPILES AWAY FROM THE STREET, PROPERTY LINES AND DRAINAGE WAYS.
- LOT ACCESS: REQUIRED FOR EACH INDIVIDUAL LOT. MAINTAIN A SURFACE SUITABLE FOR PARKING AND UNLOADING TO PREVENT THE TRACKING OF MUD AND ROCK ONTO THE STREET. A MINIMUM 6-INCH DEPTH OF 3- TO 5-INCH AGGREGATE IS SUGGESTED. ALL VEHICLES THAT ACCESS THE LOT MUST USE THE CONSTRUCTION ENTRANCE. ANY SOILS THAT ARE TRUCKED ONTO THE STREET MUST BE REMOVED BY THE END OF THE DAY.
- INTERMEDIATE CONTROL: LONG OR STEEP DRAINAGE PATHS MAY REQUIRE INTERMEDIATE OR INTERIOR ESCs TO HELP SLOW THE FLOW OF RUNOFF. FAILURE OF PERIMETER CONTROLS DUE TO THE FORCE OF RUNOFF OFTEN DETERMINE THE NEED FOR INTERMEDIATE CONTROLS.
- HOUSEKEEPING: PROVIDE ADEQUATE SANITARY FACILITIES AND TRASH/REFUSE BINS.

PLAT NUMBER  
24-11800389

DATE	DESCRIPTION
APR	

DESIGNED BY: JDC  
REVIEWED BY: OR  
DRAWN BY: JDC



BGE, INC.  
7330 San Pedro, Suite 202  
San Antonio, TX 78216  
TEL: 214-581-3600 www.bowning.com  
TXPE Registration No. P-106

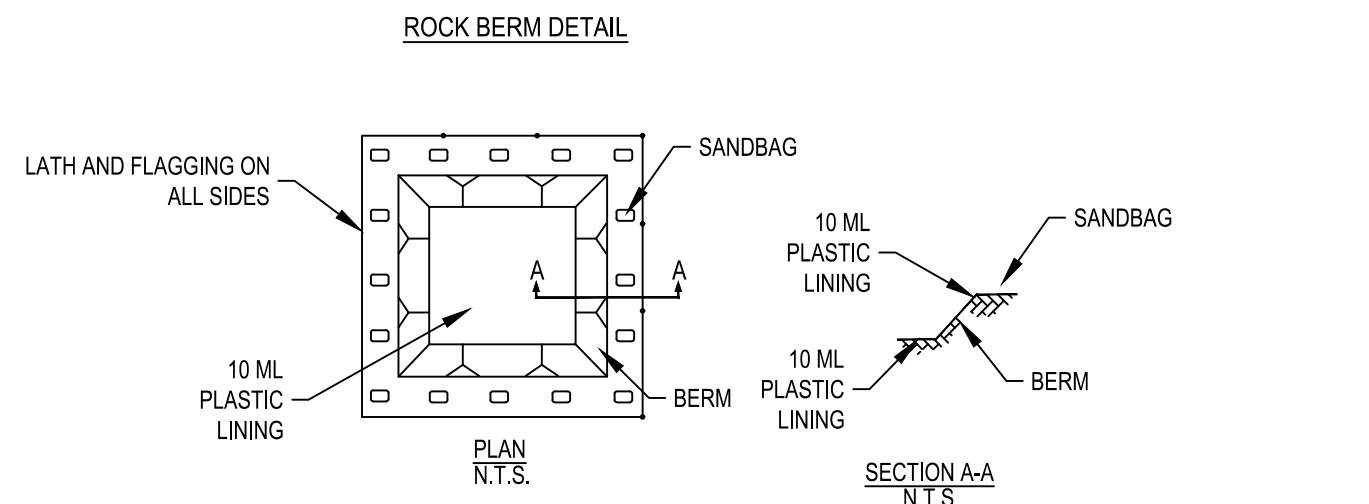
HERON VALLEY PHASE 1

EROSION & SEDIMENTATION CONTROL PLAN

NOT FOR CONSTRUCTION

SHEET  
C02.00





**CONCRETE WASHOUT NOTES:**

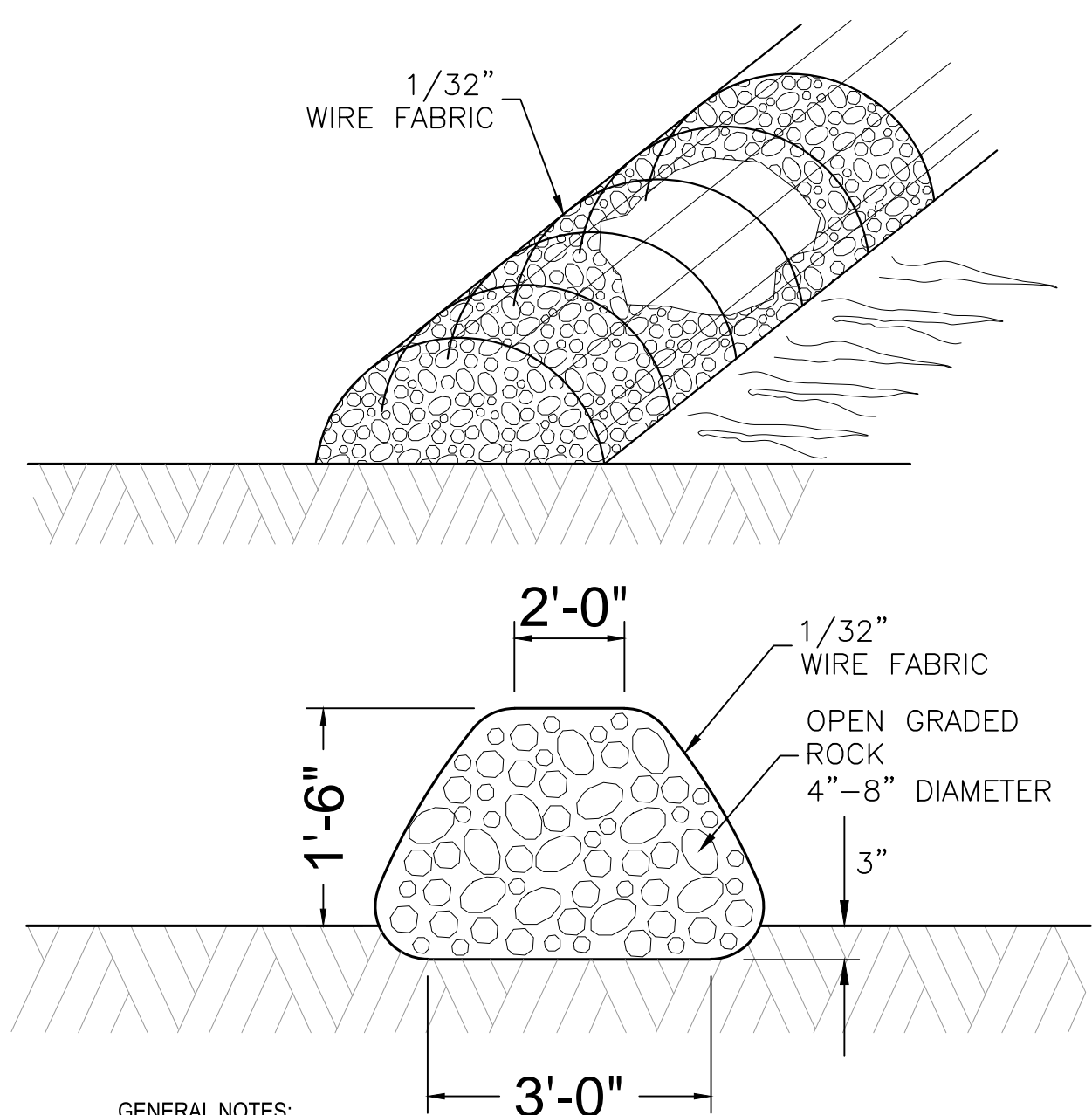
1. THE LINED WASHOUT PIT SHALL BE SUFFICIENTLY LARGE ENOUGH TO HOLD EXPECTED VOLUME OF WASHOUT MATERIAL.
2. WHEN FACILITY IS NO LONGER REQUIRED, HARDENED CONCRETE SHALL PROPERLY REMOVED AND DISPOSED OF.
3. CONTRACTOR TO BACKFIELD PIT UPON REMOVAL OF LINING.

**SAND BAG NOTES:**

1. THE SAND BAG MATERIAL SHOULD BE POLYPROPYLENE, POLYETHYLENE, POLYAMIDE OR COTTON BURLAP WOVEN FABRIC, MINIMUM UNIT WEIGHT 4 OZ/YD2, MULLEN BURST STRENGTH EXCEEDING 300 PSI AND ULTRAVIOLET STABILITY EXCEEDING 70 PERCENT.
2. THE BAG LENGTH SHOULD BE 24 TO 30 INCHES, WIDTH SHOULD BE 16 TO 18 INCHES AND THICKNESS SHOULD BE 6 TO 8 INCHES.
3. SANDBAGS SHOULD BE FILLED WITH COARSE GRADE SAND, FREE FROM DELETERIOUS MATERIAL. ALL SAND SHOULD PASS THROUGH A NO. 10 SIEVE. THE FILLED BAG SHOULD HAVE AN APPROXIMATE WEIGHT OF 40 POUNDS.
4. OUTLET PIPE SHOULD BE SCHEDULE 40 OR STRONGER POLYVINYL CHLORIDE (PVC) HAVING A NOMINAL INTERNAL DIAMETER OF 4 INCHES.

**1 IN-GROUND CONCRETE WASHOUT PIT N.T.S.**

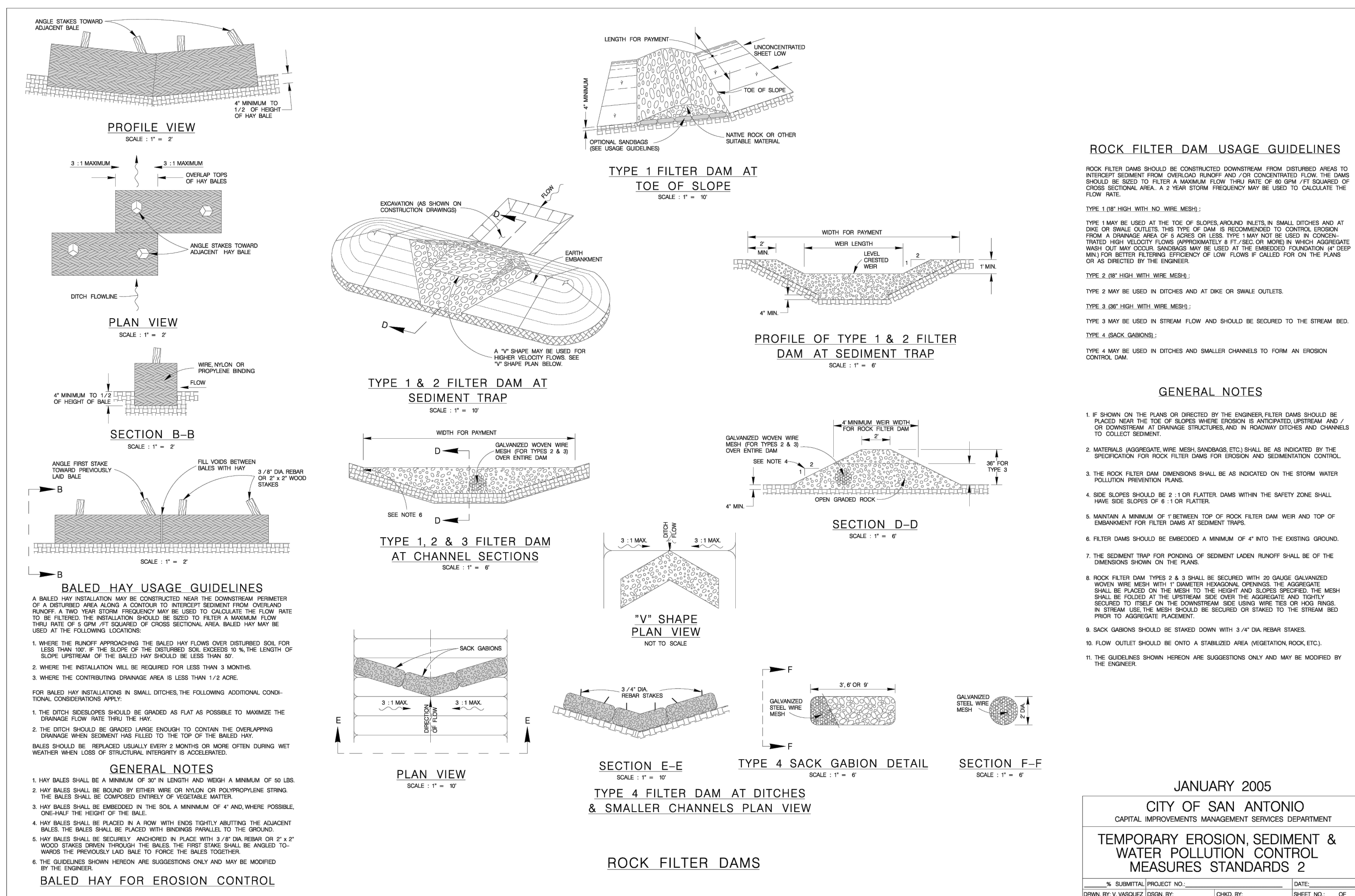
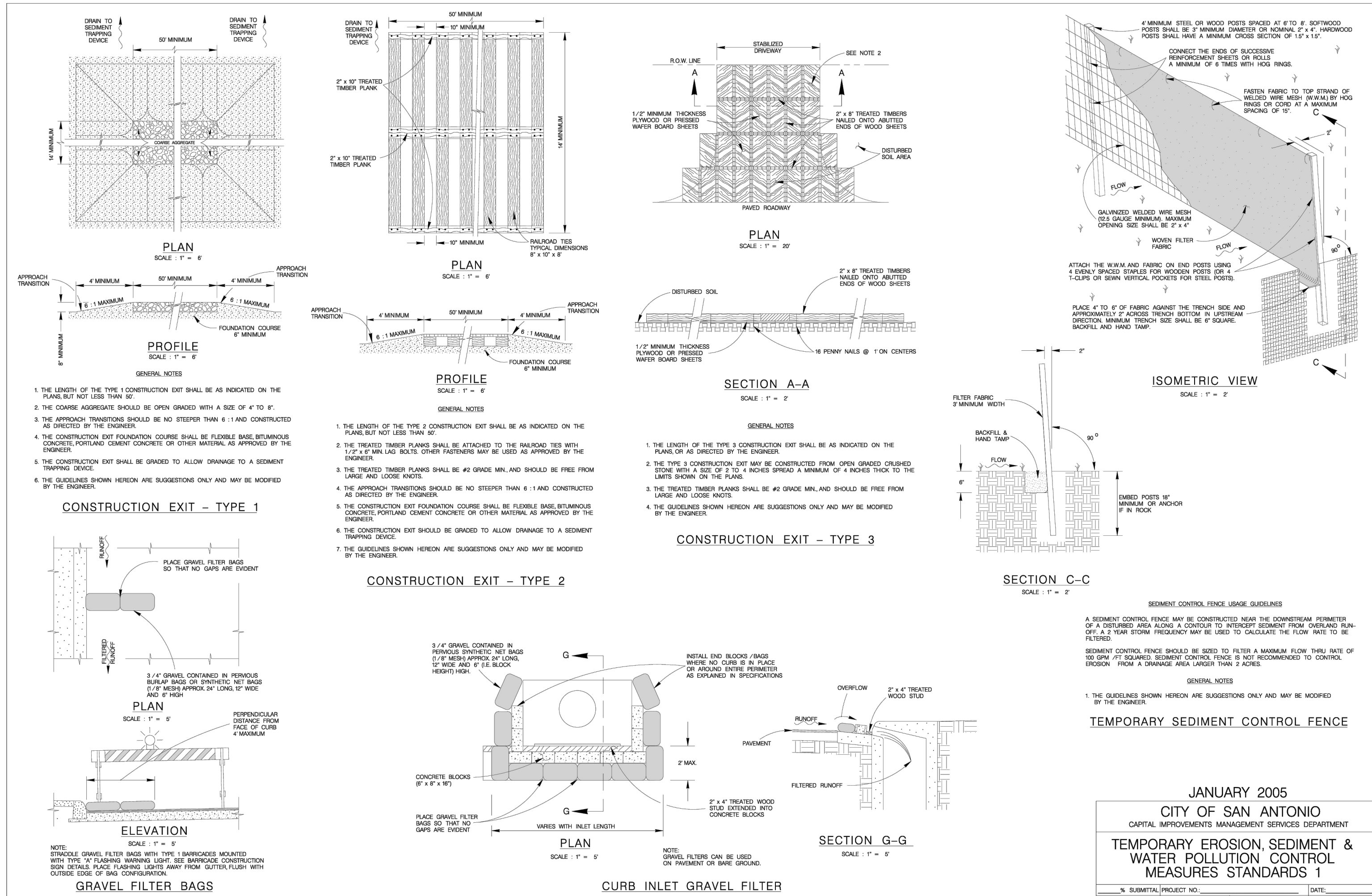
NOTE: SEE GENERAL NOTES SHEETS FOR EROSION CONTROL NOTES



**GENERAL NOTES:**

1. USE ONLY OPEN GRADED ROCK 4-8 INCHES DIAMETER FOR STREAM FLOW CONDITION; USE OPEN GRADED ROCK 3-5 INCHES DIAMETER FOR OTHER CONDITIONS.
2. THE ROCK BERM SHALL BE SECURED WITH A WOVEN WIRE SHEATHING HAVING MAXIMUM 1 INCH OPENING AND MINIMUM WIRE DIAMETER OF 1/32 INCH.
3. THE ROCK BERM SHALL BE INSPECTED WEEKLY OR AFTER EACH RAIN, AND THE STONE AND/OR FABRIC CORE/WOVEN WIRE SHEATHING SHALL BE REPLACED WHEN THE STRUCTURE CEASES TO FUNCTION AS INTENDED. DUE TO SILT ACCUMULATION AMONG THE ROCKS, WASHOUT, CONSTRUCTION TRAFFIC DAMAGE, ETC.
4. WHEN SILT REACHES A DEPTH EQUAL TO ONE-THIRD THE HEIGHT OF THE BERM OR 12 INCHES, WHICHEVER IS LESS, THE SILT SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED SITE AND IN A MANNER AS TO NOT CREATE A SILTATION PROBLEM.
5. DAILY INSPECTION SHALL BE MADE ON SERVICE ROCK BERMS; SILT SHALL BE REMOVED WHEN ACCUMULATION REACHES 8 INCHES.
6. WHEN THE SITE IS COMPLETELY STABILIZED, THE BERM AND ACCUMULATED SILT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

**2 ROCK BERM N.T.S.**



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DRAWN BY: JDC



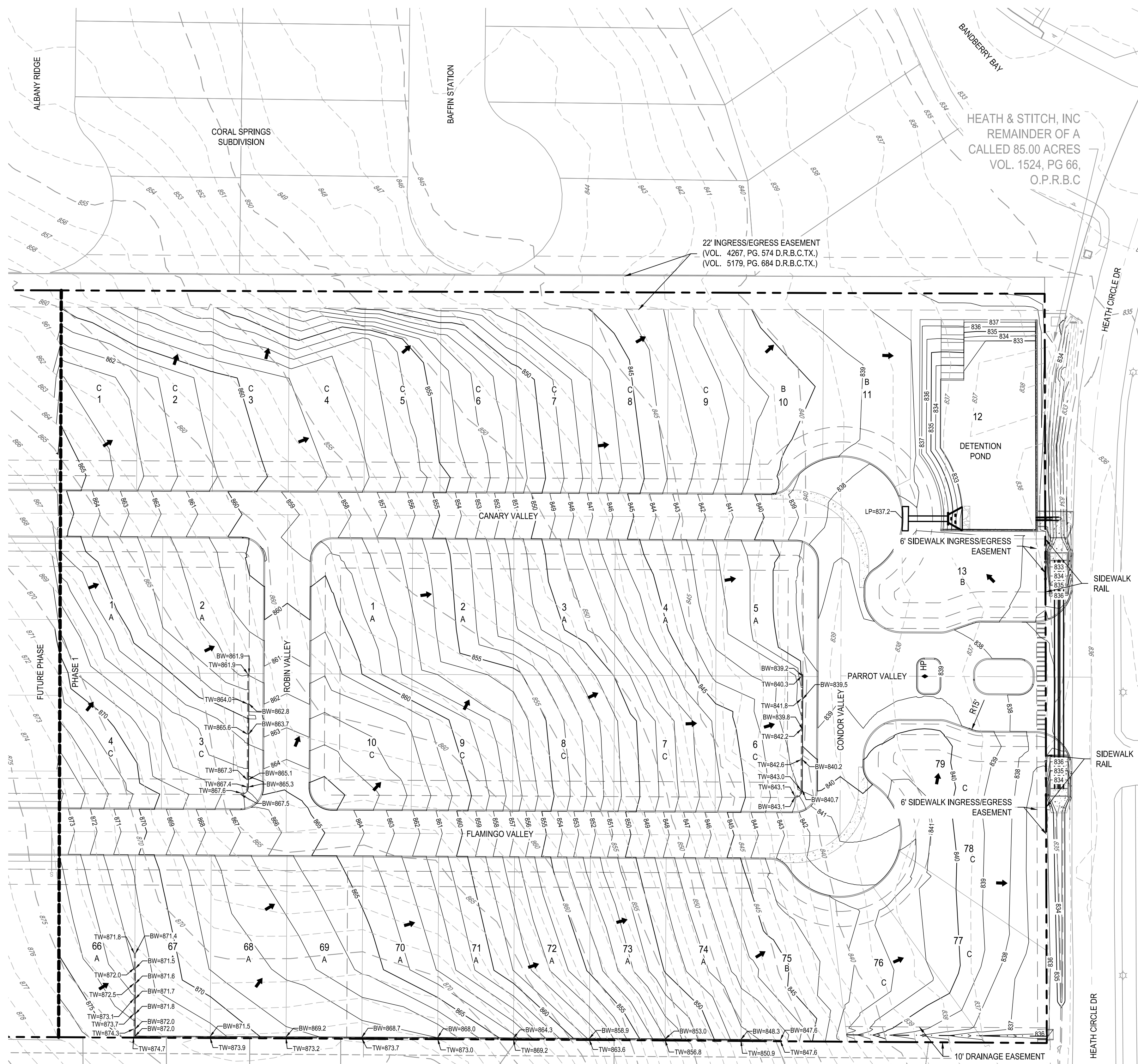
BGE, INC.  
7230 San Pedro, Suite 202  
San Antonio, TX 78216  
TEL: 214-381-3600 www.bgeinc.com  
TXE Registration No. P-1146

HERON VALLEY PHASE 1  
EROSION & SEDIMENTATION  
CONTROL DETAILS

NOT FOR CONSTRUCTION

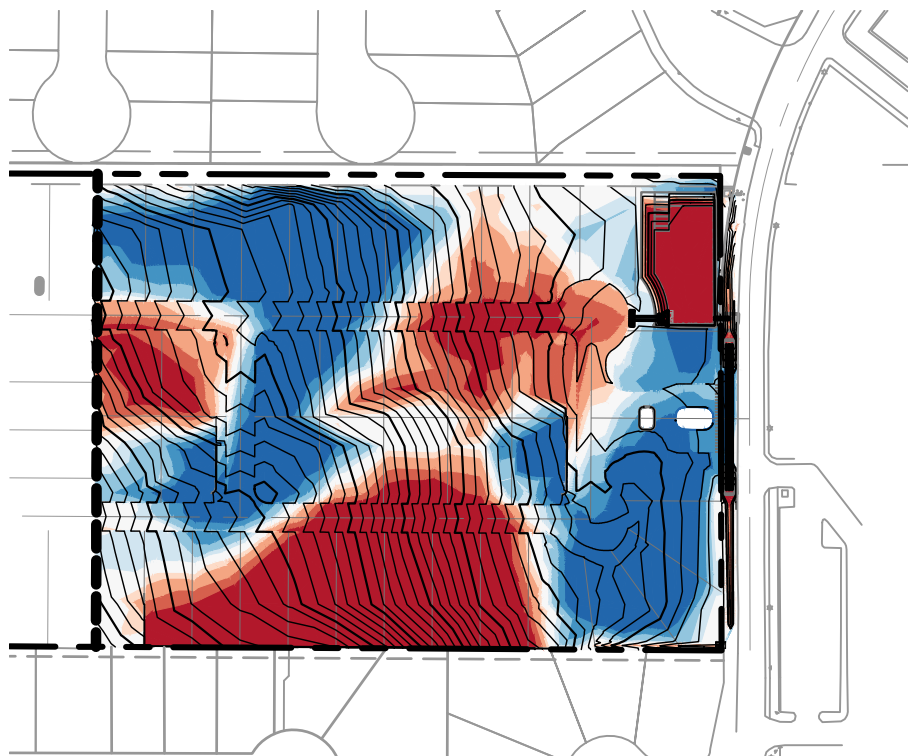
SHEET  
C02.10



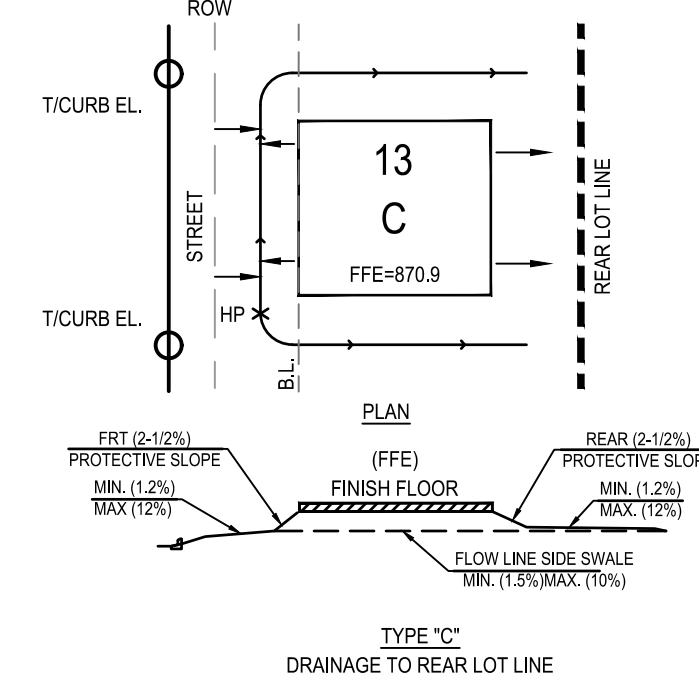
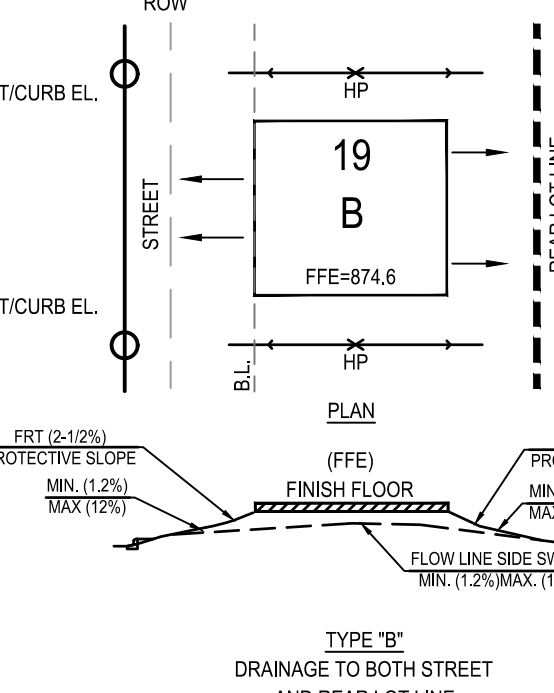
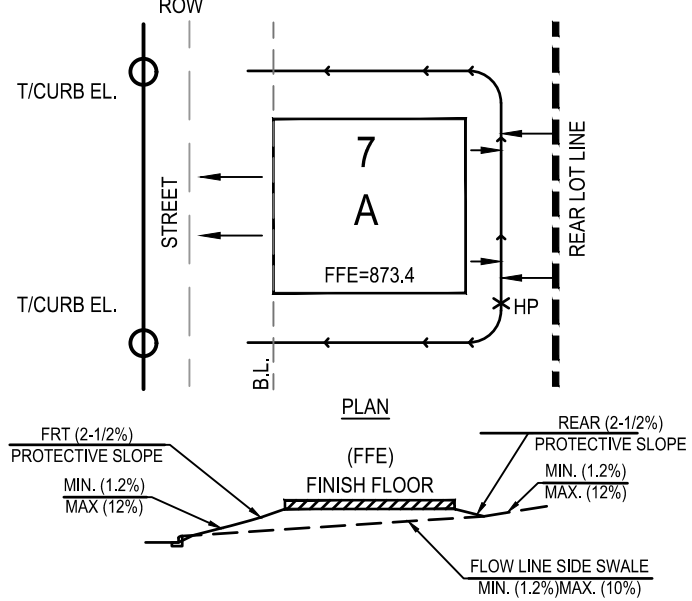


CUT FILL TABLE			
Number	Minimum Elevation	Maximum Elevation	Color
1	-8.000	-1.500	
2	-1.500	-1.000	
3	-1.000	-0.500	
4	-0.500	-0.250	
5	-0.250	0.250	
6	0.250	0.500	
7	0.500	1.000	
8	1.000	1.500	
9	1.500	7.000	

LEGEND	
	PROPERTY BOUNDARY
	PHASE BOUNDARY
	PROPOSED LOT LINES
	EASEMENT
	EXISTING MINOR CONTOUR
	EXISTING MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	PROPOSED MAJOR CONTOUR
	PROPOSED STORM LINE WITH MANHOLE
	PROPOSED CURB INLET
	TYPICAL RAMP (SEE SHEET C08.24)
	LOW POINT/HIGH POINT
	LOT NUMBER AND GRADING TYPE
	DIRECTION OF FLOW
	RETAINING WALL
	PROPOSED SWALE FLOWLINE



HEAT MAP  
1" = 100'



FINISHED FLOOR ELEVATIONS

THE ELEVATION OF THE LOWEST FLOOR SHALL BE AT LEAST 10 INCHES ABOVE THE FINISHED GRADE OF THE SURROUNDING GROUND OR FINISHED FLOOR ELEVATION WHICH EVER IS HIGHER, WHICH SHALL BE SLOPED IN A FASHION SO AS TO DIRECT STORM WATER AWAY FROM THE STRUCTURE. PROPERTIES ADJACENT TO THE STORM WATER CONVEYANCE STRUCTURES MUST HAVE FLOOR SLAB ELEVATION OR BOTTOM OF FLOOR JOISTS A MINIMUM OF ONE FOOT ABOVE THE 100-YEAR WATER FLOW ELEVATION IN THE STRUCTURE. DRIVEWAYS SERVING HOUSES ON THE DOWNHILL SIDE OF THE STREET SHALL HAVE PROPERLY SIZED CROSS SWALE PREVENTING RUNOFF FROM ENTERING THE STRUCTURE.

LOT FILL NOTES:

- ALL LOTS WITH FILL SHALL BE COMPACTED IN ACCORDANCE WITH THE 79G PROCEDURE THAT MEETS THE REQUIREMENTS OF THE FIA DATA SHEET. DOCUMENTATION AND THE EVIDENCE OF COMPACTED SHALL BE FURNISHED TO THE ENGINEER & OWNER.

GENERAL NOTES:

- HOME BUILDER SHALL REFER TO THE APPROVED SUBDIVISION PLAT TO CONFIRM ALL BUILDING SETBACKS PRIOR TO ANY FOUNDATION WORK.
- AS SOON AS PRACTICAL, HOME BUILDER SHALL ESTABLISH VEGETATION (HYDROMULCH, SEEDING, SOODING, ETC.,) TO PREVENT EROSION FROM OCCURRING.
- CONTRACTOR SHALL CONTACT ENGINEER REGARDING ANY QUESTIONS ON THE INTENT OF THIS PLAN.
- POSITIVE DRAINAGE SHALL BE MAINTAINED ON ALL SURFACE AREAS WITHIN THE SCOPE OF THIS PROJECT. DRAINAGE SHALL BE DIRECTED AWAY FROM ALL BUILDING FOUNDATIONS AND TOWARDS THE PROPER DRAINAGE EASEMENT OF STREET RIGHT OF WAY ACCORDING TO THE MASTER DRAINAGE PLAN FOR THE PROJECT. CONTRACTOR SHOULD TAKE PRECAUTIONS NOT TO ALLOW PONDING OF WATER.
- GRADING PLAN IS INTENDED FOR USE IN LOT GRADING ONLY. CONTRACTOR SHOULD REFER TO CONSTRUCTION DRAWINGS FOR ALL OTHER GRADES, INCLUDING, BUT NOT LIMITED TO, CHANNELS, ROADS, AND DETENTION PONDS.
- CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE ALL SWALES.
- EARTHEN GRADING SLOPES SHALL BE NO GREATER THAN 3:1.
- SLOPES GREATER THAN 3:1 ARE ASSUMED TO BE MILLED ROCK. IF SITE CONDITIONS VARY FROM THIS, NOTIFY ENGINEER IMMEDIATELY.

PLAT NUMBER  
24-11800389

DATE	DESCRIPTION
APR	

DESIGNED BY: JDC  
REVIEWED BY: OR  
DRAWN BY: JDC



BGE, INC.  
7330 San Pedro, Suite 202  
San Antonio, TX 78216  
TEL: 214-581-3600 www.bgeing.com  
TXPE Registration No. P-1046

HERON VALLEY PHASE 1

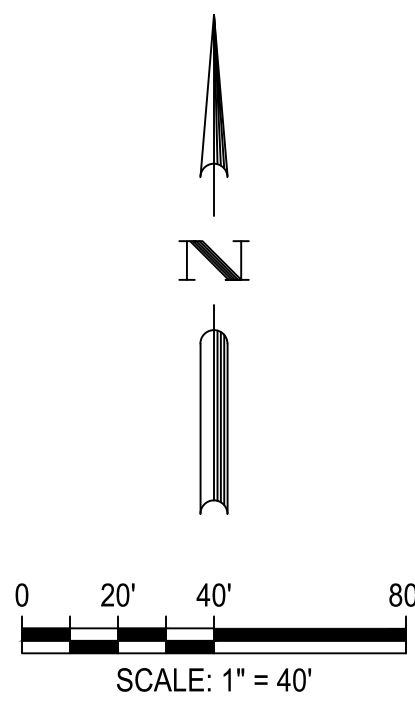
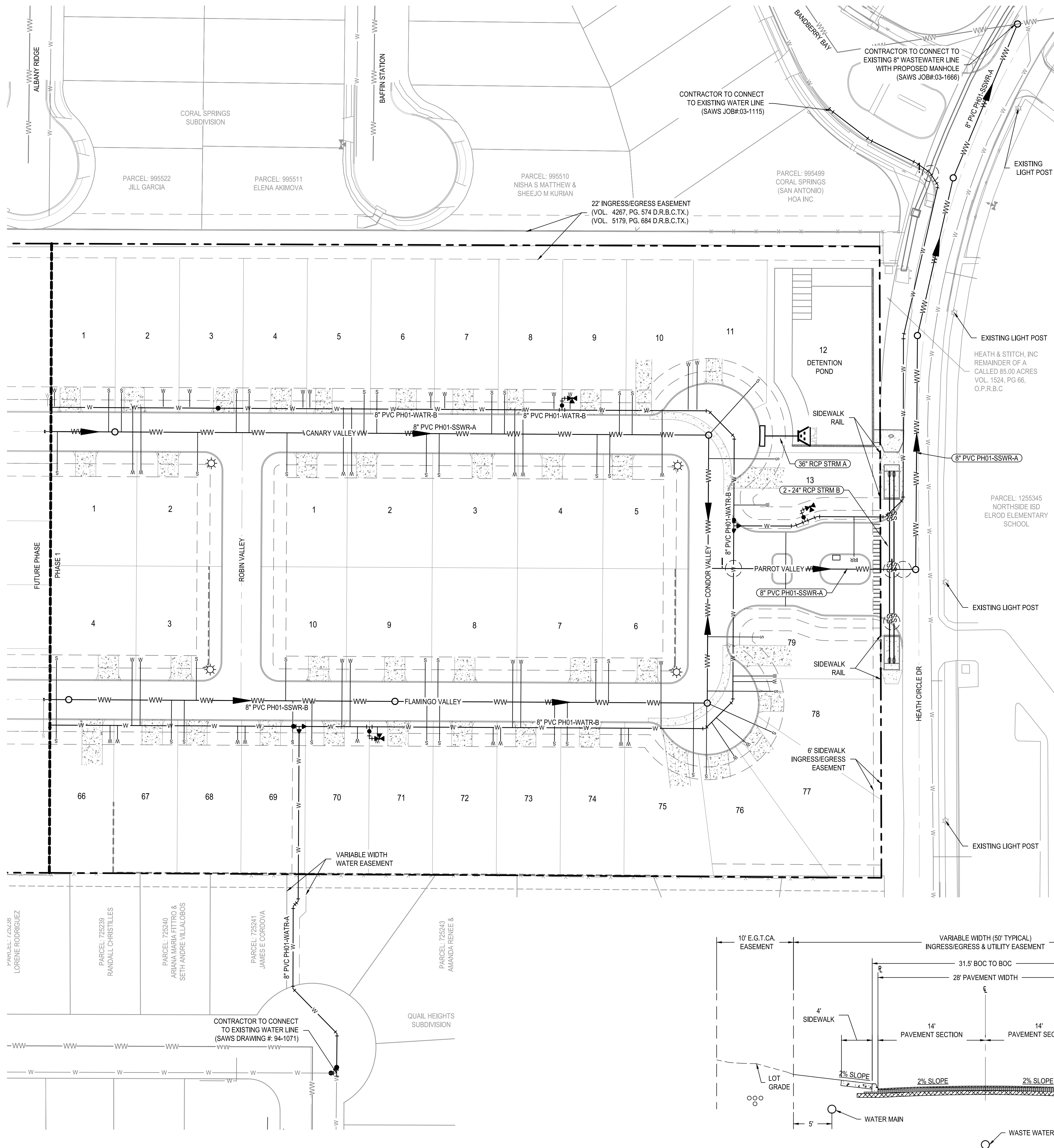
OVERALL GRADING PLAN

NOT FOR CONSTRUCTION

SHEET  
C03.00



G:\TXC\Projects\San Antonio Projects\2936-00 - Heron Valley\01\_Unit V03\_CADD\01\_Shts\C04.00 UTILITY PLAN.dwg Layout: UTILITY PLAN Plotted: 4/7/2025 12:58:00 PM By: Calderon



LEGEND	
	PROPERTY BOUNDARY
	PHASE BOUNDARY
	BUILDING SETBACK
	PROPOSED LOT LINES
	PROPOSED EASEMENT
	PROPOSED WATER MAIN
	DUAL/SINGLE WATER SERVICES
	PROPOSED FIRE HYDRANT
	PROPOSED GATE VALVE
	PROPOSED WASTEWATER MAIN
	WASTEWATER SERVICES
	PROPOSED STORM LINE WITH MANHOLE
	PROPOSED CURB INLET
	PROPOSED STREET LIGHT
	RAISED REFLECTIVE HYDRANT MARKER
	EXISTING WATER MAIN
	EXISTING WASTEWATER MAIN
	UTILITY CROSSING

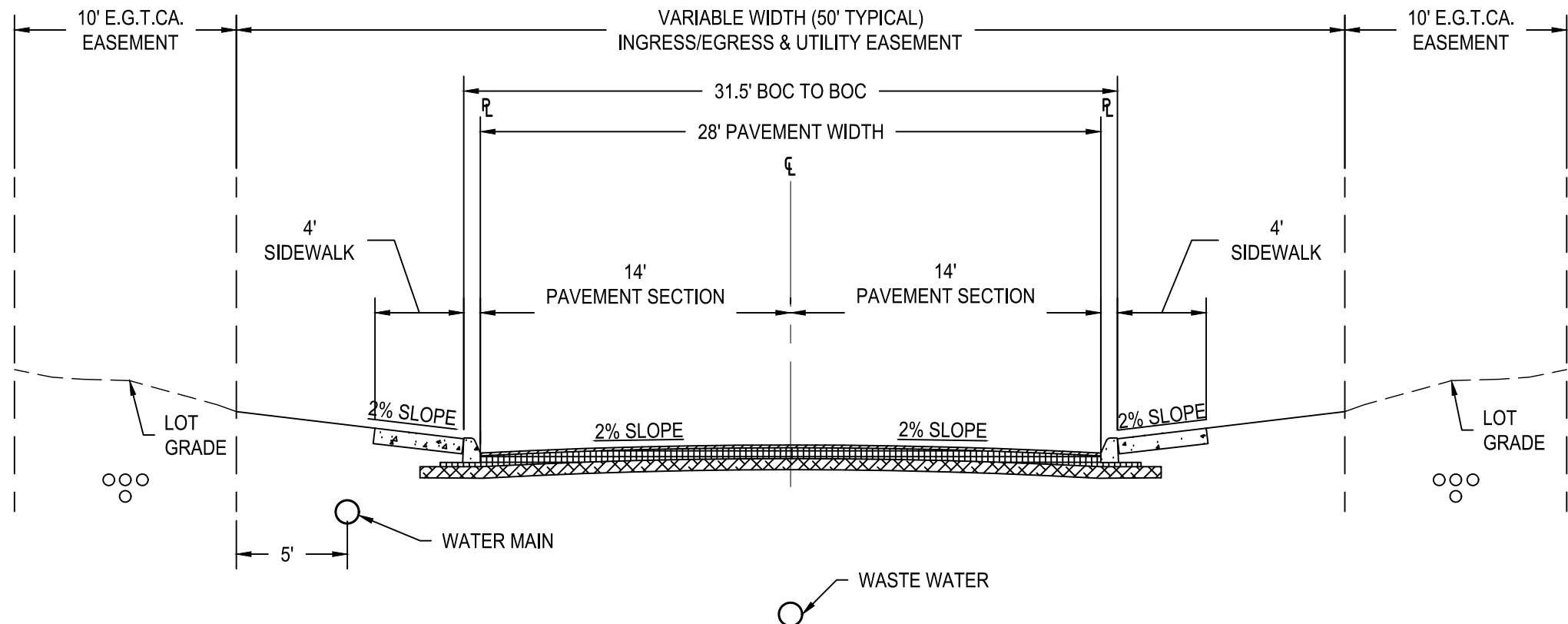
NOTE:  
1. ELECTRIC/GAS/TELECOMM PLANS SHOWN FOR SCHEMATIC PURPOSES ONLY. REFER TO APPLICABLE UTILITY PLANS FOR FULL APPROVED LAYOUT.

UTILITY GENERAL NOTES:

- ALL MAINS SHALL BE FLUSHED, HYDROSTATICALLY TESTED, AND DISINFECTED BY THE CONTRACTOR.
- 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.
- ALL GARBAGE OR SPOIL MATERIAL FROM THIS WORK SHALL BE REMOVED FROM THE SITE BY THE CONTRACTOR, AT THEIR EXPENSE.
- 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.
- 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 INSTALLATION OF UTILITIES TO ENSURE PROPER COVER IS ACHIEVED.
- THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANIES REGARDING THE LOCATION OF EXISTING FACILITIES PRIOR TO CONSTRUCTION.
- 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.
- 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.
- SITE FALLS BELOW ELEVATION OF 926 FEET THEREFORE PVR'S WILL BE REQUIRED AT EACH WATER METER. PVR INSTALLATION IS THE RESPONSIBILITY OF THE HOME BUILDER ON THE PRIVATE SIDE OF THE METER.
- DRIVEWAY LOCATIONS AND DIMENSIONS ARE FOR REFERENCE ONLY. CONTRACTOR IS TO CONFIRM DRIVEWAY LOCATIONS WITH HOME BUILDER PRIOR TO INSTALLATION OF THE UTILITIES.

UTILITY TRENCH COMPACTION  
ALL UTILITY TRENCH COMPACTION TESTS WITHIN THE STREET PAVEMENT SECTION SHALL BE THE RESPONSIBILITY OF THE DEVELOPER'S GEO-TECHNICAL ENGINEER. FILL MATERIAL SHALL BE PLACED IN UNIFORM LAYERS NOT TO EXCEED TWELVE INCHES (12") LOOSE. EACH LAYER OF MATERIAL SHALL BE COMPACTED TO A MINIMUM 95% DENSITY AND TESTED FOR DENSITY AND MOISTURE IN ACCORDANCE WITH TEST METHODS TEX-113-E, TEX-114-E, TEX-115-E. THE NUMBER AND LOCATION OF REQUIRED TESTS SHALL BE DETERMINED BY THE GEO-TECHNICAL ENGINEER AND APPROVED BY THE CITY OF SAN ANTONIO STREET INSPECTOR. AT A MINIMUM, TESTS SHALL BE TAKEN EVERY 100LF FOR EACH LIFT. UPON COMPLETION OF TESTING THE GEO-TECHNICAL ENGINEER SHALL PROVIDE THE CITY OF SAN ANTONIO STREET INSPECTOR WITH ALL TESTING DOCUMENTATION AND A CERTIFICATION STATING THAT THE PLACEMENT OF FILL MATERIAL HAS BEEN COMPLETED IN ACCORDANCE WITH THE PLANS.

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 ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND 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 COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.



PLAT NUMBER  
24-11800389

DATE	REV	DESCRIPTION
APR		

DESIGNED BY: JDC  
REVIEWED BY: OR  
DRAWN BY: JDC



BGE, INC.  
7330 San Pedro, Suite 202  
San Antonio, TX 78216  
TEL: 214-381-3600 www.bgeenergy.com  
TXPE Registration No. P-106

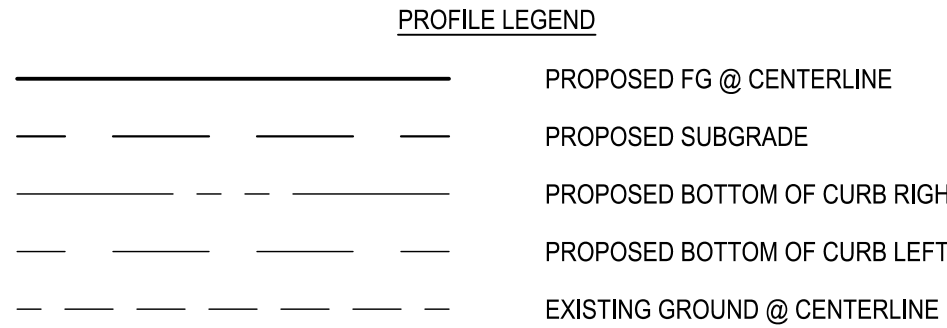
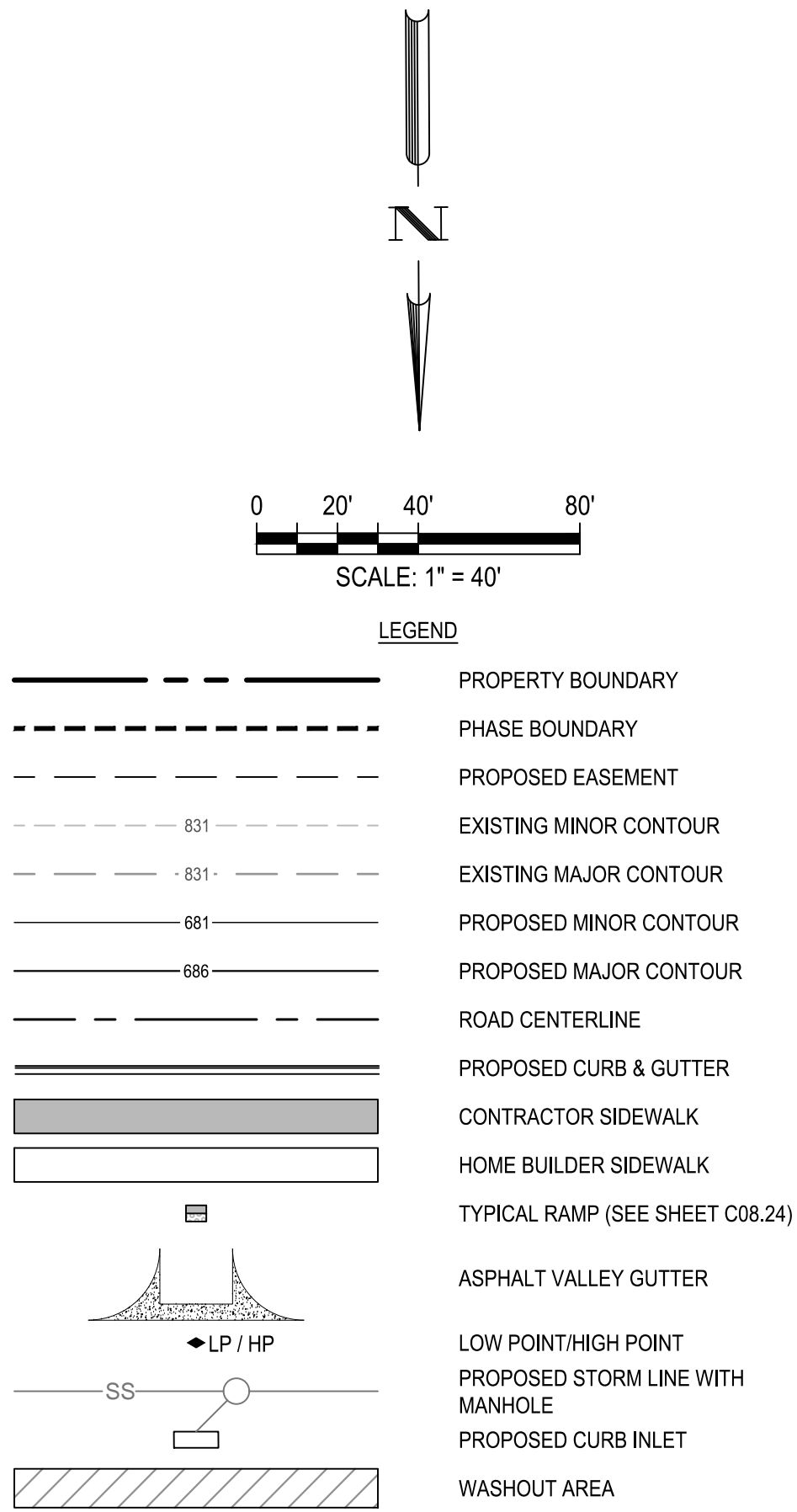
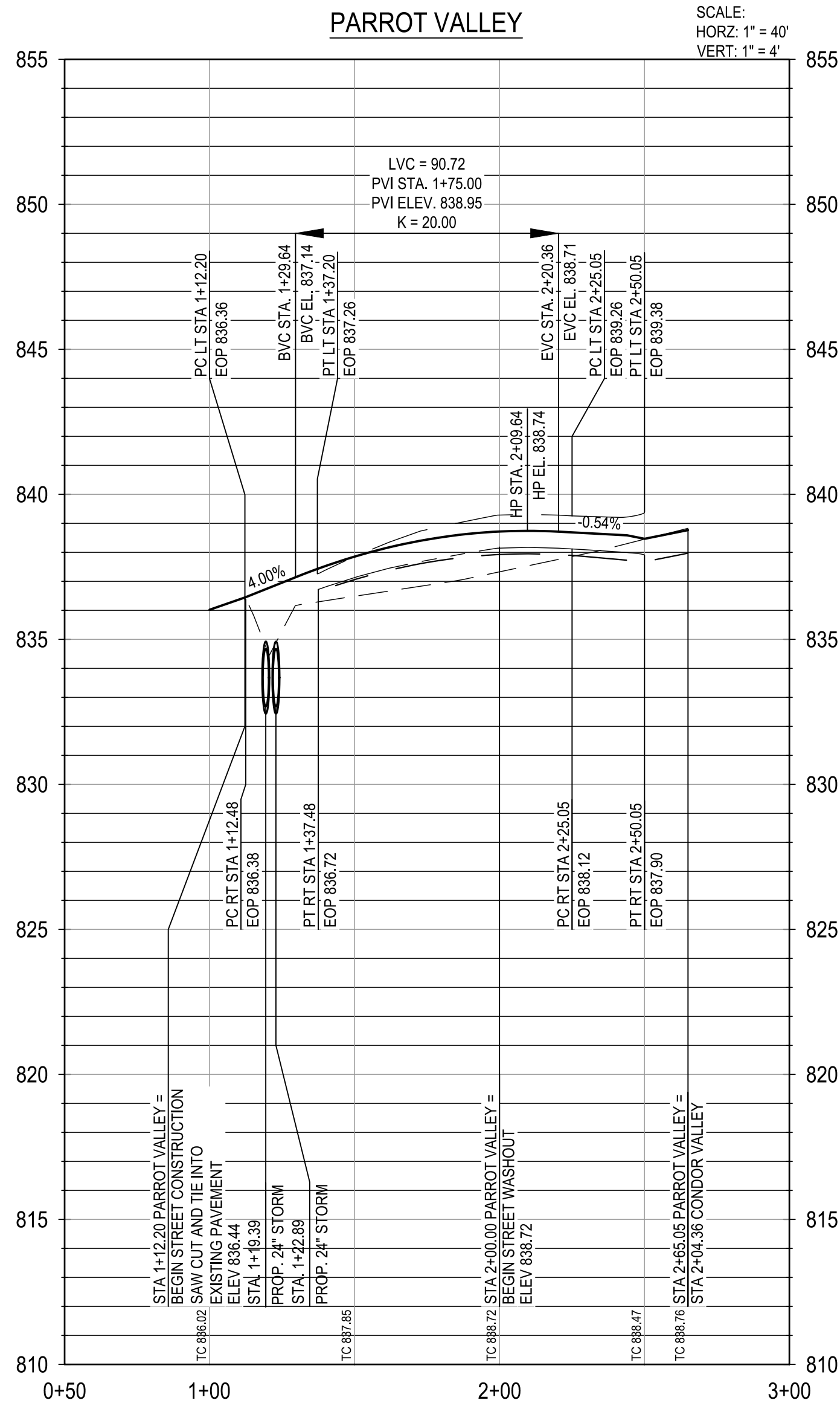
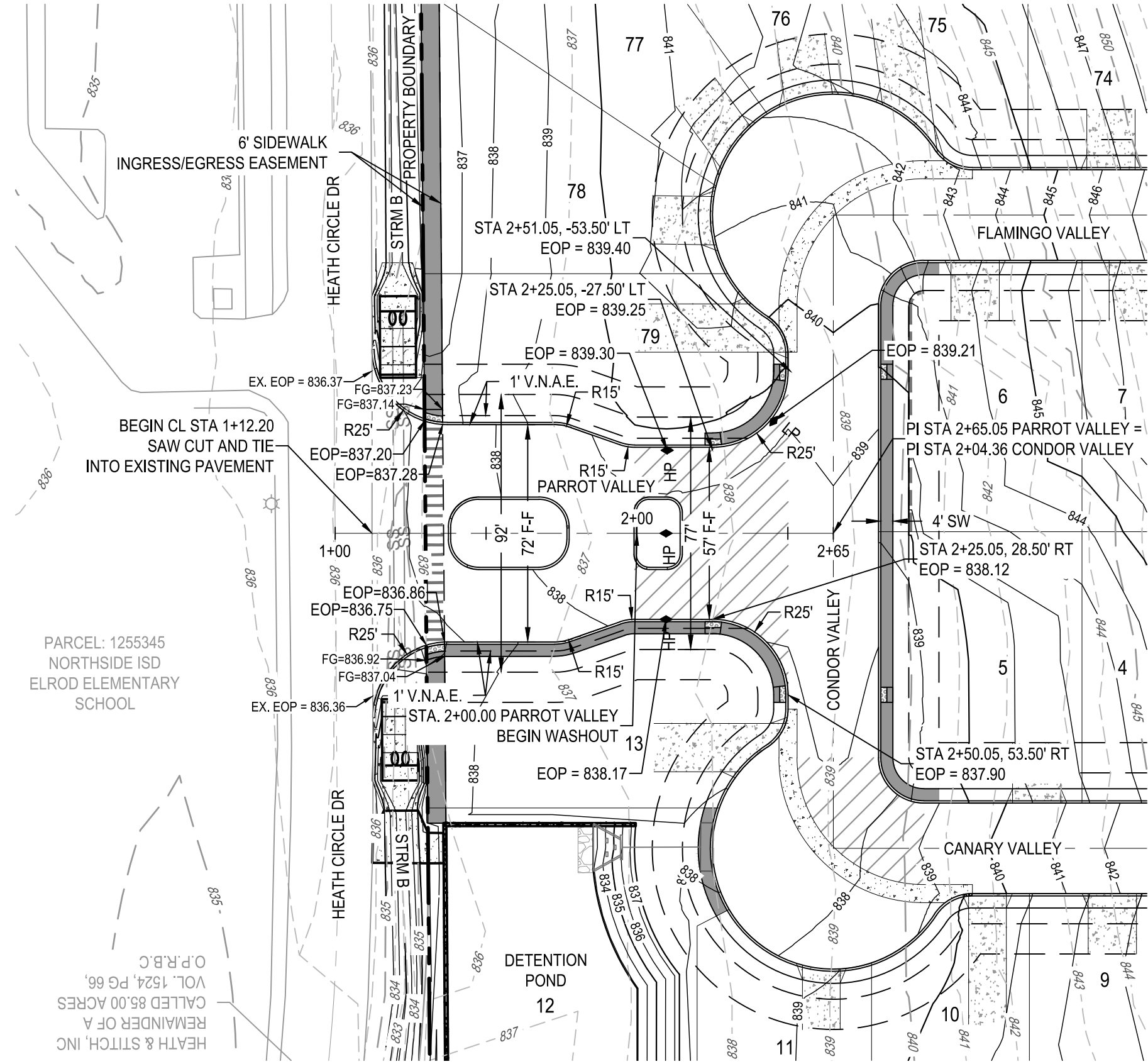
HERON VALLEY PHASE 1

UTILITY PLAN

NOT FOR CONSTRUCTION

SHEET  
C04.00





NOTE:  
CONTRACTOR SHALL ENSURE THAT PROPOSED A.D.A. RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

\* CONTRACTOR TO FIELD VERIFY AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

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 ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES 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 COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

NOTES:

- CONTRACTOR TO SEE DETAIL SHEET FOR TYPICAL ROAD CROSS-SECTIONS.
- CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE STREET RIGHT OF WAY WITH THE EXCEPTION OF TREES TO REMAIN AND COORDINATE WITH OWNER AND ENGINEER TO SELECT CLEAR P.U.E. WHERE APPLICABLE FOR DRY UTILITY INSTALLATION.
- CONTRACTOR TO GRADE OR REGRADE ALL AREAS WITHIN ROAD ROW INCLUDING DITCHES FOR POSITIVE DRAINAGE.
- CONTRACTOR SHALL GRADE TO DRAIN AREAS UPSTREAM AND DOWNSTREAM OF ALL PROPOSED CHANNELS.
- CONTRACTOR TO COORDINATE WITH DEVELOPER REGARDING TREE WELLS TO ENSURE TREES TO REMAIN ARE SAVED. CONTRACTOR TO REFERENCE LANDSCAPE PLANS FOR TREE WELL FINISHES.
- CONTRACTOR SHALL HYDROMULCH OR WOODMULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES, DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT WATERING IN HYDROMULCH AREAS TO ESTABLISH VEGETATION.
- ALL TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. ALL STRIPING TO BE THERMOPLASTIC.
- ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
- SIDEWALKS ADJACENT TO SINGLE FAMILY LOTS ARE TO BE CONSTRUCTED CONCURRENTLY WITH EACH SINGLE FAMILY HOUSE BY THE HOME BUILDER.

PRIVATE STREET DESIGNATION:

LOT 999, BLOCK 9, IS A PRIVATE STREET AND IS DESIGNATED AS AN IRREVOCABLE UNDERGROUND AND AT-GRADE INFRASTRUCTURE AND SERVICE FACILITIES EASEMENT FOR GAS, ELECTRIC, STREET LIGHT, TELEPHONE, CABLE TELEVISION, DRAINAGE, PEDESTRIAN, PUBLIC WATER, WASTEWATER, AND RECYCLED WATER MAINS.

PLAT NUMBER  
24-11800389

DATE  
APR

DESCRIPTION

DESIGNED BY: JDC

REVIEWED BY: OR

DRAWN BY: JDC



BGE, INC.  
7330 San Pedro, Suite 202  
San Antonio, TX 78216  
TEL: 210-581-5600 www.bgenw.com  
TDE Registration No. P-106

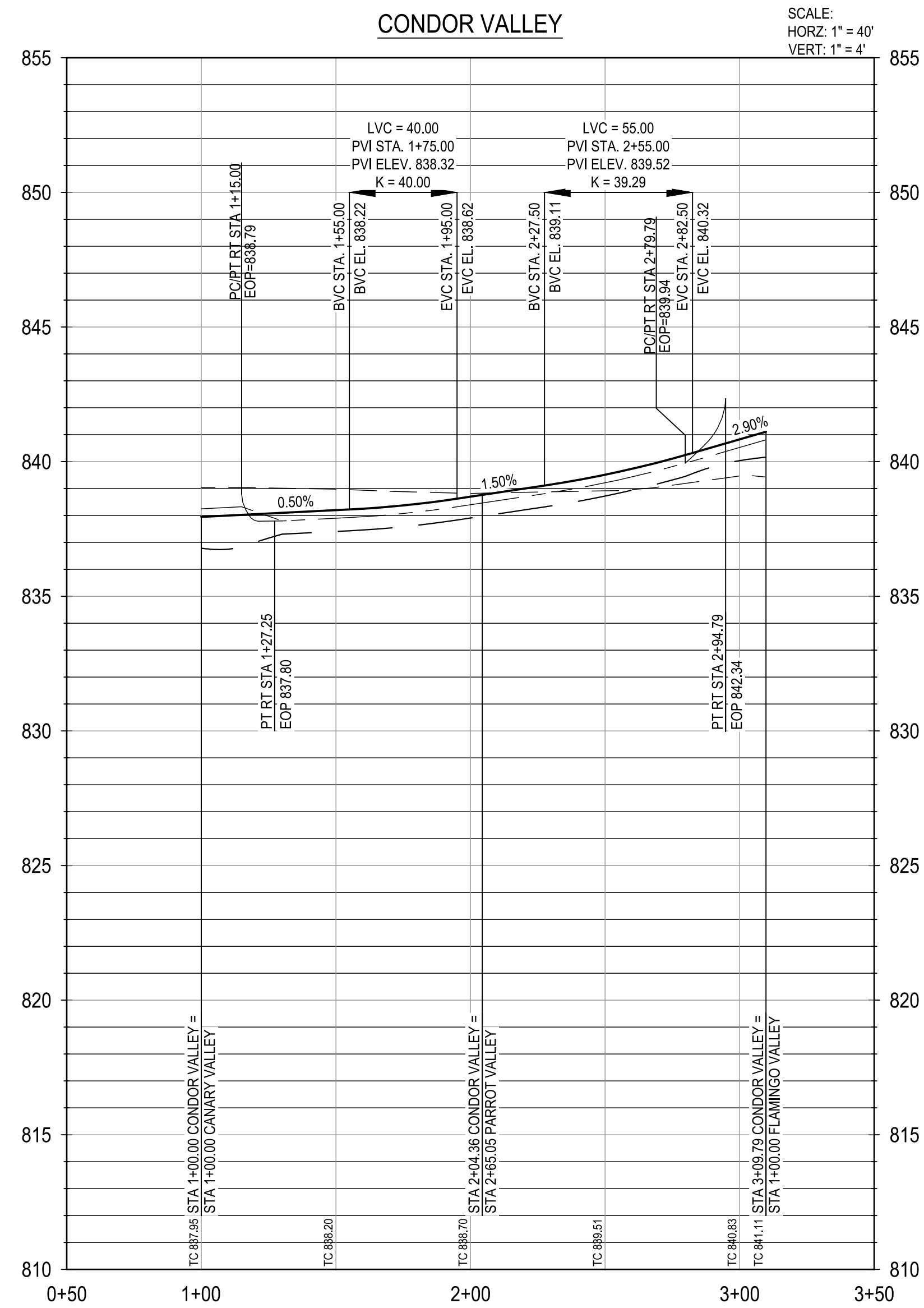
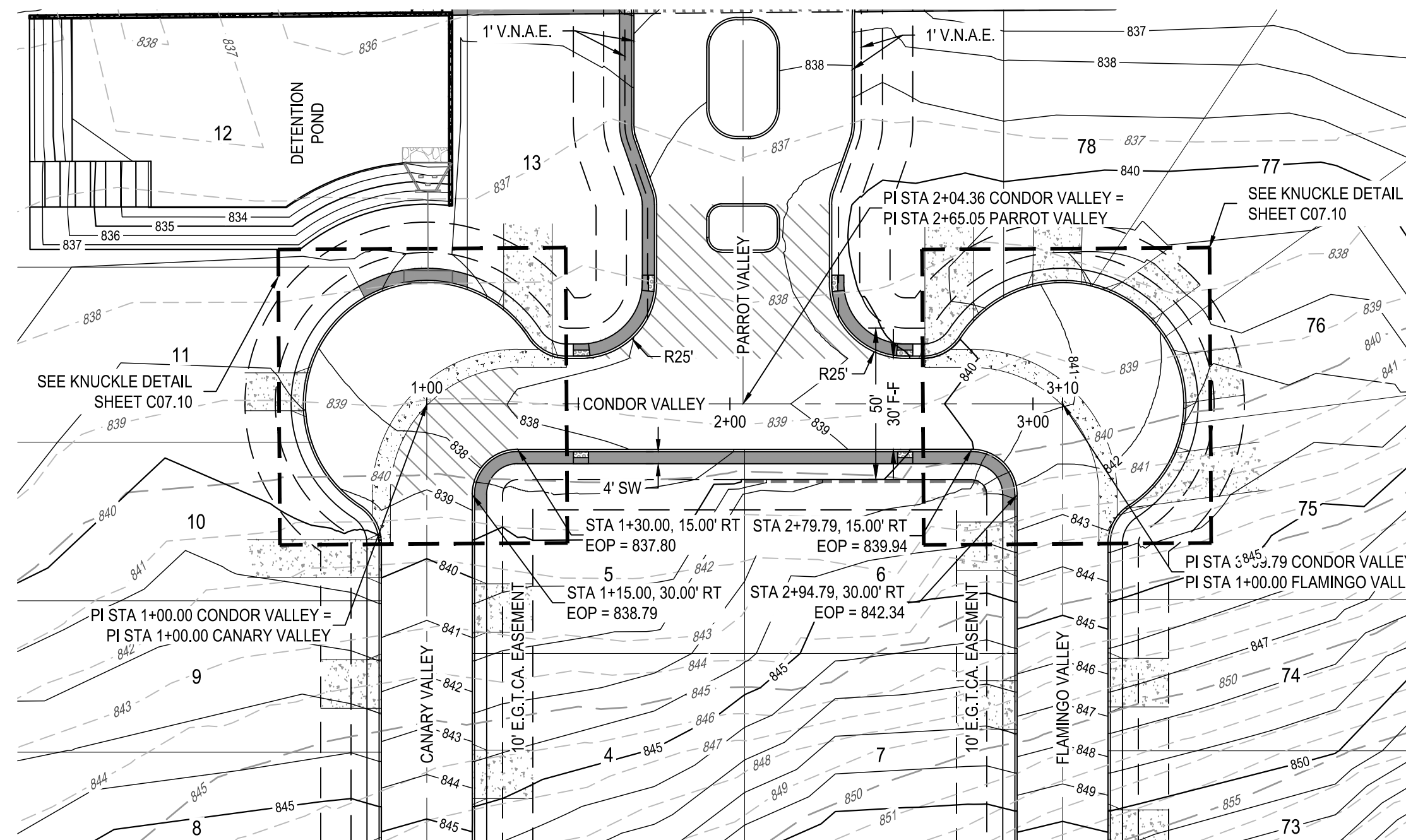
HERON VALLEY PHASE 1

PARROT VALLEY PLAN AND PROFILE

NOT FOR CONSTRUCTION

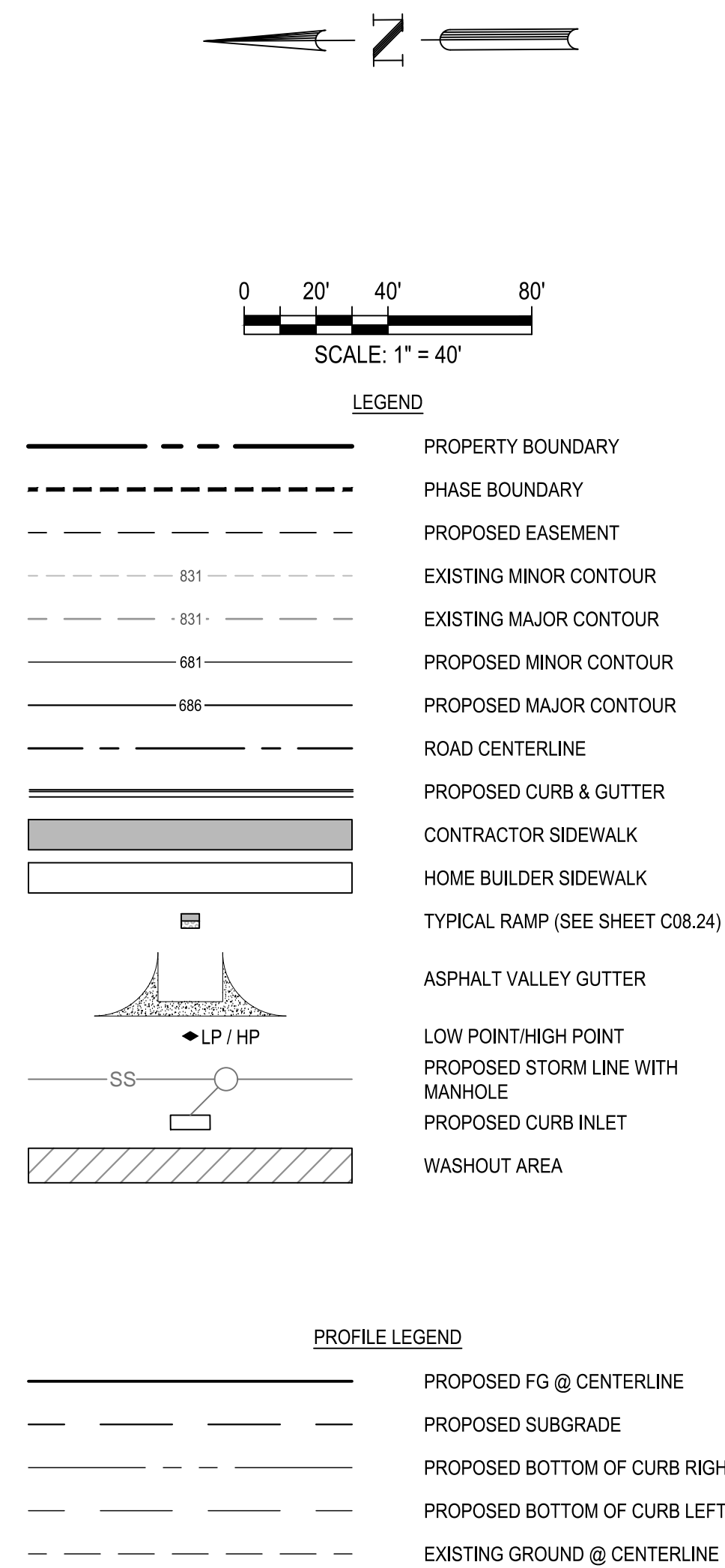
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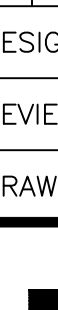
**PRIVATE STREET DESIGNATION:**

LOT 999, BLOCK 9, IS A PRIVATE STREET AND IS DESIGNATED AS AN IRREVOCABLE UNDERGROUND AND AT-GRADE INFRASTRUCTURE AND SERVICE FACILITIES EASEMENT FOR GAS, ELECTRIC, STREET LIGHT, TELEPHONE, CABLE TELEVISION, DRAINAGE, PEDESTRIAN, PUBLIC WATER, WASTEWATER, AND RECYCLED WATER MAINS.



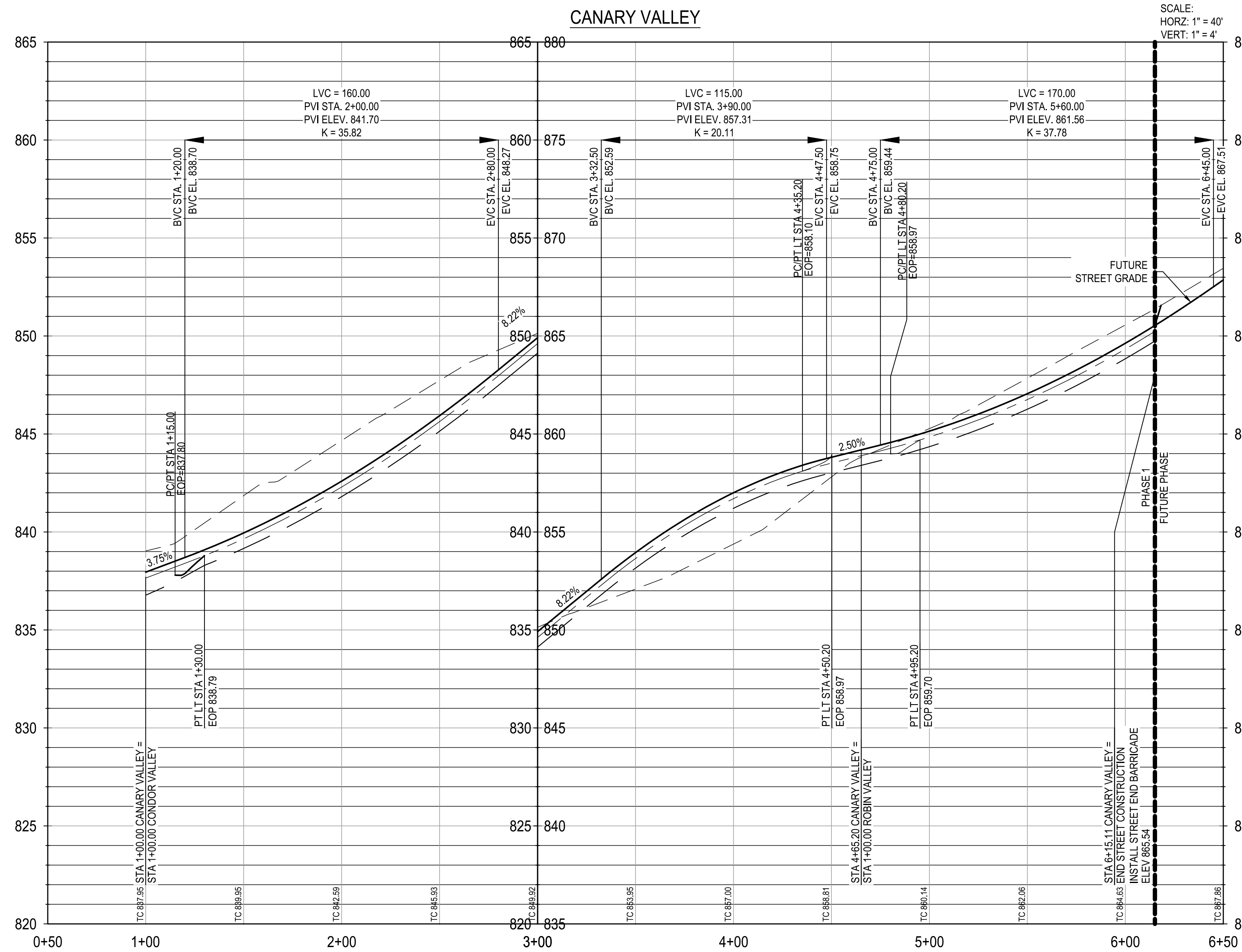
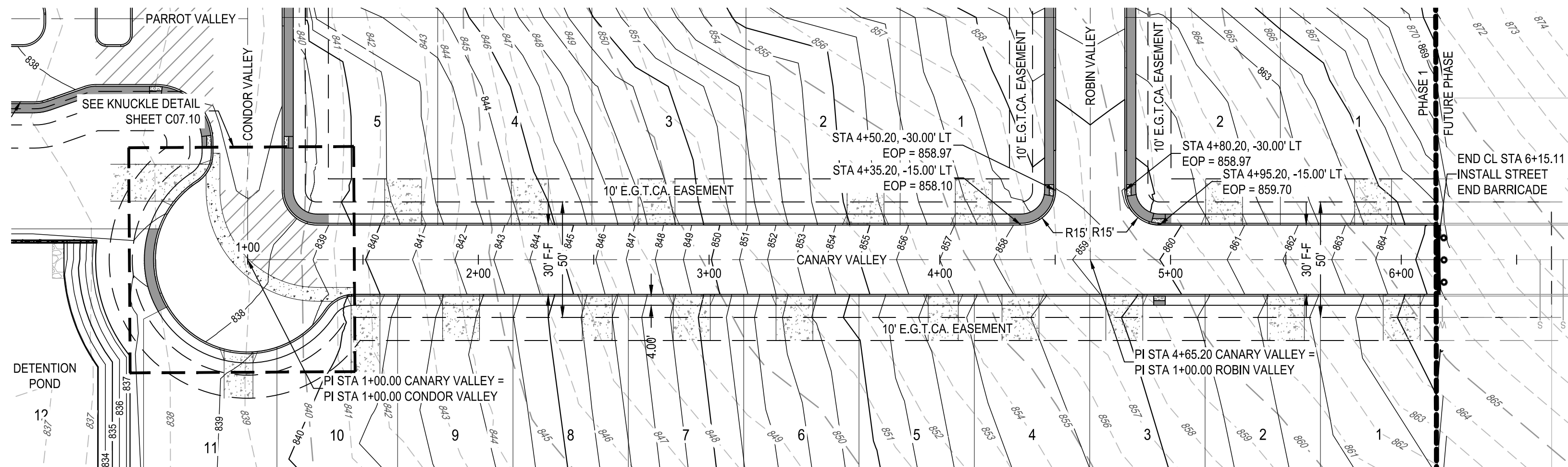
- NOTES:**
1. CONTRACTOR TO SEE DETAIL SHEET FOR TYPICAL ROAD CROSS-SECTIONS.
  2. CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE STREET RIGHT OF WAY WITH THE EXCEPTION OF TREES TO REMAIN AND COORDINATE WITH OWNER AND ENGINEER TO SELECT CLEAR P.U.E. WHERE APPLICABLE FOR DRY UTILITY INSTALLATION.
  3. CONTRACTOR TO GRADE OR REGRADE ALL AREAS WITHIN ROAD ROW INCLUDING DITCHES FOR POSITIVE DRAINAGE.
  4. CONTRACTOR SHALL GRADE TO DRAIN AREAS UPSTREAM AND DOWNSTREAM OF ALL PROPOSED CHANNELS.
  5. CONTRACTOR TO COORDINATE WITH DEVELOPER REGARDING TREE WELLS TO ENSURE TREES TO REMAIN ARE SAVED. CONTRACTOR TO REFERENCE ATTACHED TREE PROTECTION PLANS FOR TREE WELLS.
  6. CONTRACTOR SHALL HYDROMULCH OR WOODMULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES, DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT WATERING IN HYDROMULCH AREAS TO ESTABLISH VEGETATION.
  7. ALL TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, ALL STRIPING TO BE THERMOPLASTIC.
  8. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
  9. SIDEWALKS ADJACENT TO SINGLE FAMILY LOTS ARE TO BE CONSTRUCTED CONCURRENTLY WITH EACH SINGLE FAMILY HOUSE BY THE HOME BUILDER.

PLAT NUMBER  
24-11800389

<div style="text-align: center;"> <p>SHEET</p> <p>C07.01</p> </div>	<div style="text-align: center;"> <p>HERON VALLEY PHASE 1</p> </div>	<div style="text-align: center;"> <p>CONDOR VALLEY PLAN AND PROFILE</p> </div>	 <p><b>BGE, INC.</b>  7330 N. Sunnyside, Suite 202  Seattle, WA 98148  TEL: 210-581-1300 <a href="http://www.browning.com">www.browning.com</a>  TBPE Registration No. F-1046</p>	DESIGNED BY:	JDC	△
				REVIEWED BY:	OR	△
				DRAWN BY:	JDC	△
						△
						△
			DESCRIPTION	REV	DATE	APR

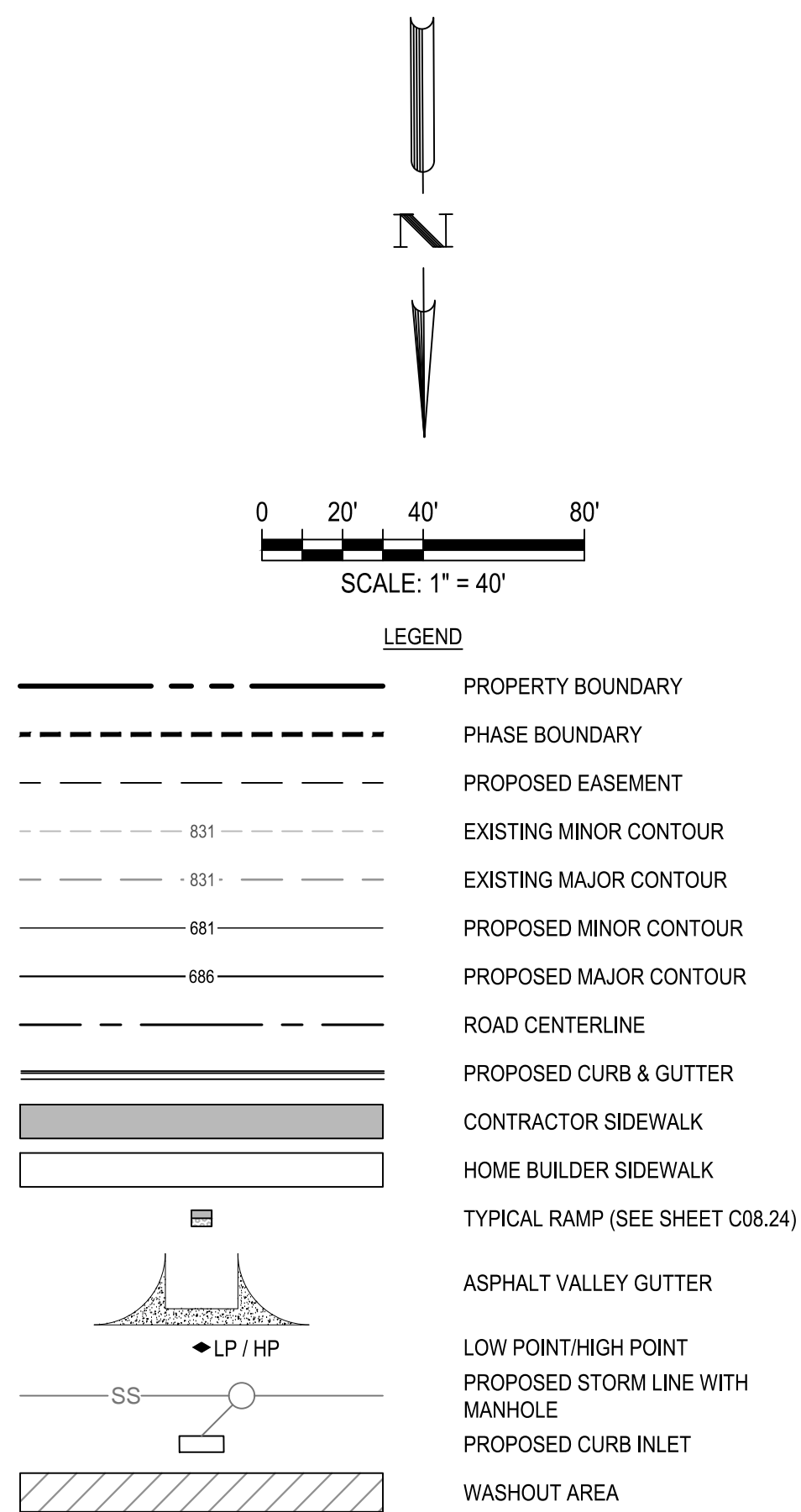
NOT FOR CONSTRUCTION





PRIVATE STREET DESIGNATION:

LOT 999, BLOCK 9, IS A PRIVATE STREET AND IS DESIGNATED AS AN IRREVOCABLE UNDERGROUND AND AT-GRADE INFRASTRUCTURE AND SERVICE FACILITIES EASEMENT FOR GAS, ELECTRIC, STREET LIGHT, TELEPHONE, CABLE TELEVISION, DRAINAGE, PEDESTRIAN, PUBLIC WATER, WASTEWATER, AND RECYCLED WATER MAINS.



NOTE:  
CONTRACTOR SHALL ENSURE THAT PROPOSED A.D.A. RAMPS AND  
ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH  
SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.

- \* CONTRACTOR TO FIELD VERIFY AND NOTIFY  
ENGINEER OF ANY DISCREPANCIES.

## 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 ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ANTICIPATED INSTALLATION SITES WITHIN THE PROJECT WORK AREA IN ORDER TO IMPLEMENT CONTRACTOR'S TRENCH EXCAVATION SAFETY PROTECTION SYSTEMS, PROGRAMS AND/OR PROCEDURES FOR THE PROJECT DESCRIBED IN THE CONTRACT DOCUMENTS. THE CONTRACTOR'S IMPLEMENTATION OF THESE SYSTEMS, PROGRAMS AND PROCEDURES SHALL BE IN ACCORDANCE WITH THE 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 COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

NOTES:

1. CONTRACTOR TO SEE DETAIL SHEET FOR TYPICAL ROAD CROSS-SECTIONS.
2. CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE STREET RIGHT OF WAY WITH THE EXCEPTION OF TREES TO REMAIN AND COORDINATE WITH OWNER AND ENGINEER TO SELECT CLEAR P.U.E. WHERE APPLICABLE FOR DRY UTILITY INSTALLATION.
3. CONTRACTOR TO GRADE OR REGRADE ALL AREAS WITHIN ROAD ROW INCLUDING DITCHES FOR POSITIVE DRAINAGE.
4. CONTRACTOR SHALL GRADE TO DRAIN AREAS UPSTREAM AND DOWNSTREAM OF ALL PROPOSED CHANNELS.
5. CONTRACTOR TO COORDINATE WITH DEVELOPER REGARDING TREE WELLS TO ENSURE TREES TO REMAIN ARE SAVED. CONTRACTOR TO REFERENCE LANDSCAPE PLANS FOR TREE WELL FINISHES.
6. CONTRACTOR SHALL MAINTAIN OR RECONSTRUCT ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES, DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT WATERING IN HYDROMULCH AREAS TO ESTABLISH VEGETATION.
7. ALL TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, ALL STRIPING TO BE THERMOPLASTIC.
8. ALL DIMENSIONS ARE TO FACE UNLESS OTHERWISE NOTED.
9. SIDEWALKS ADJACENT TO SINGLE FAMILY LOTS ARE TO BE CONSTRUCTED CONCURRENTLY WITH EACH SINGLE FAMILY HOUSE BY THE HOME BUILDER.

PLAT NUMBER  
24-11800389

[illegible]

DESIGNED BY:	JDC
REVIEWED BY:	OR
DRAWN BY:	JDC



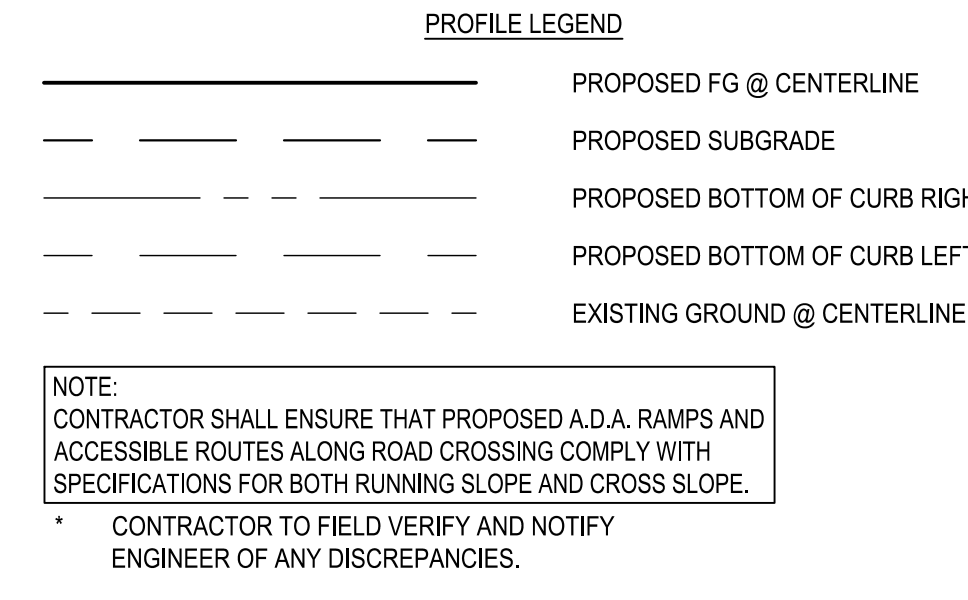
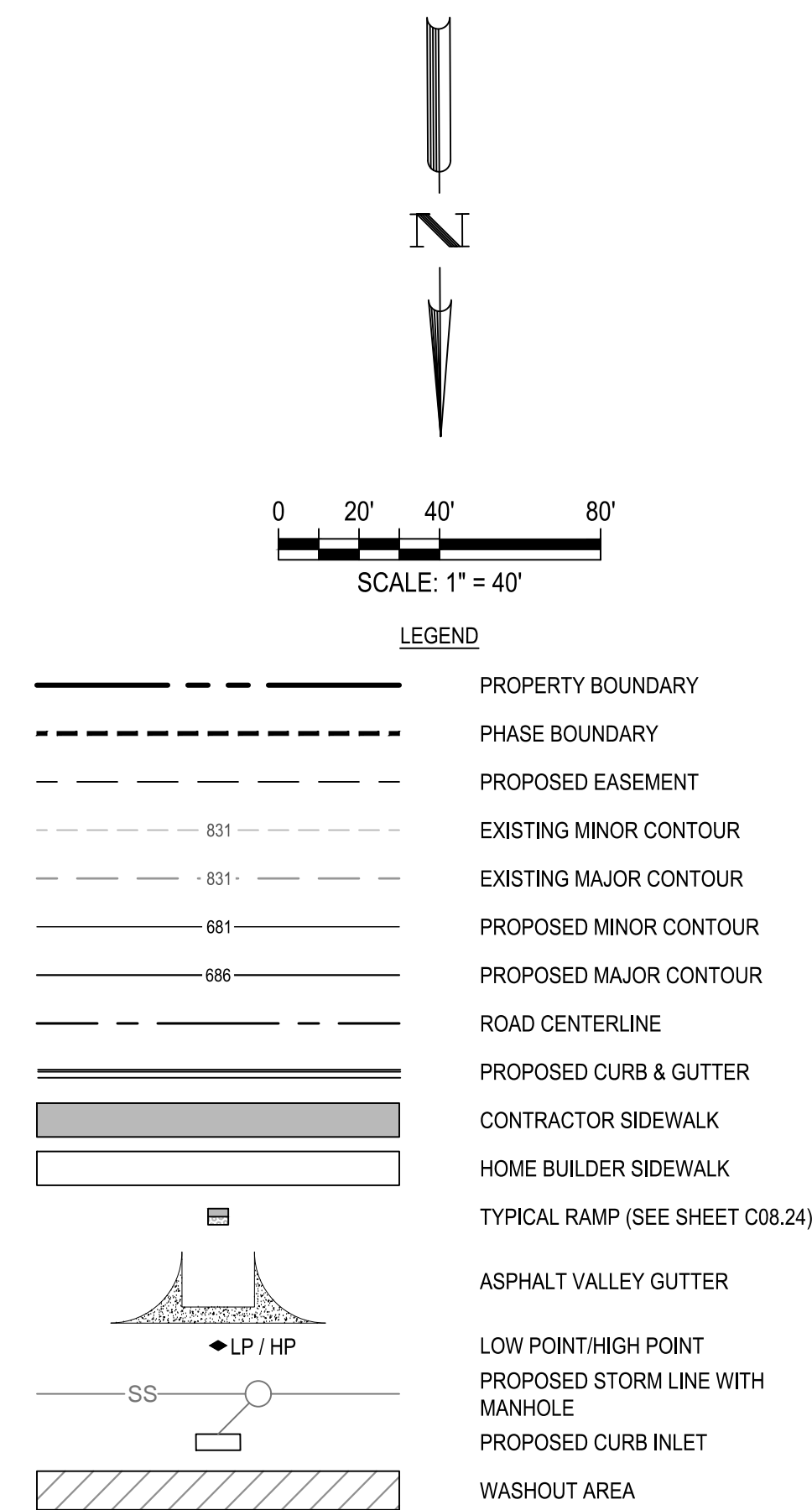
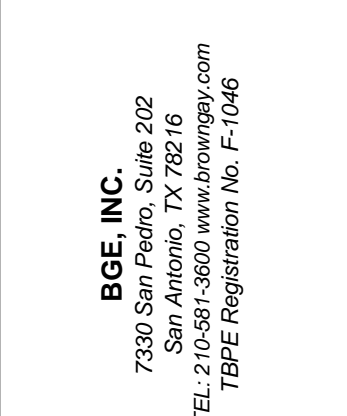
**BGE, INC.**  
7330 San Pedro, Suite 202  
San Antonio, TX 78216  
TEL: 210-581-3600 [www.browning.com](http://www.browning.com)  
TBBE Registration No. E 1046

HERON VALLEY PHASE 1

# CANARY VALLEY PLAN AND PROFILE

NOT FOR CONSTRUCTION





**TRENCH EXCAVATION SAFETY PROTECTION**

CONTRACTOR AND/OR CONTRACTOR'S INDEPENDENTLY RETAINED EMPLOYEE OR STRUCTURAL DESIGN/GEOTECHNICAL/SAFETY/EQUIPMENT CONSULTANT, IF ANY, SHALL REVIEW THESE PLANS AND ANY AVAILABLE GEOTECHNICAL INFORMATION AND THE ADEQUATE INSTALLATION SITES 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 COVERING THE PRESENCE AND ACTIVITIES OF INDIVIDUALS WORKING IN AND AROUND TRENCH EXCAVATIONS.

- NOTES:**
1. CONTRACTOR TO SEE DETAIL SHEET FOR TYPICAL ROAD CROSS-SECTIONS.
  2. CONTRACTOR SHALL CLEAR AND GRUB THE ENTIRE STREET RIGHT OF WAY WITH THE EXCEPTION OF TREES TO REMAIN AND COORDINATE WITH OWNER AND ENGINEER TO SELECT CLEAR P.U.I.E. WHERE APPLICABLE FOR DRY UTILITY INSTALLATION.
  3. CONTRACTOR TO GRADE OR REGRADE ALL AREAS WITHIN ROAD ROW INCLUDING DITCHES FOR POSITIVE DRAINAGE.
  4. CONTRACTOR SHALL GRADE TO DRAIN AREAS UPSTREAM AND DOWNSTREAM OF ALL PROPOSED CHANNELS.
  5. CONTRACTOR TO COORDINATE WITH DEVELOPER REGARDING TREE WELLS. ENSURE TREES TO REMAIN ARE SAVED. CONTRACTOR TO REFERENCE LANDSCAPE PLANS FOR TREE WELL FINISHES.
  6. CONTRACTOR SHALL HYDROMULCH OR WOODMULCH ALL DISTURBED AREA INCLUDING RIGHT-OF-WAY, STEEP SLOPES, DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT WATERING IN HYDROMULCH AREAS TO ESTABLISH VEGETATION.
  7. ALL TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, ALL STRIPING TO BE THERMOPLASTIC.
  8. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
  9. SIDEWALKS ADJACENT TO SINGLE FAMILY LOTS ARE TO BE CONSTRUCTED CONCURRENTLY WITH EACH SINGLE FAMILY HOUSE BY THE HOME BUILDER.

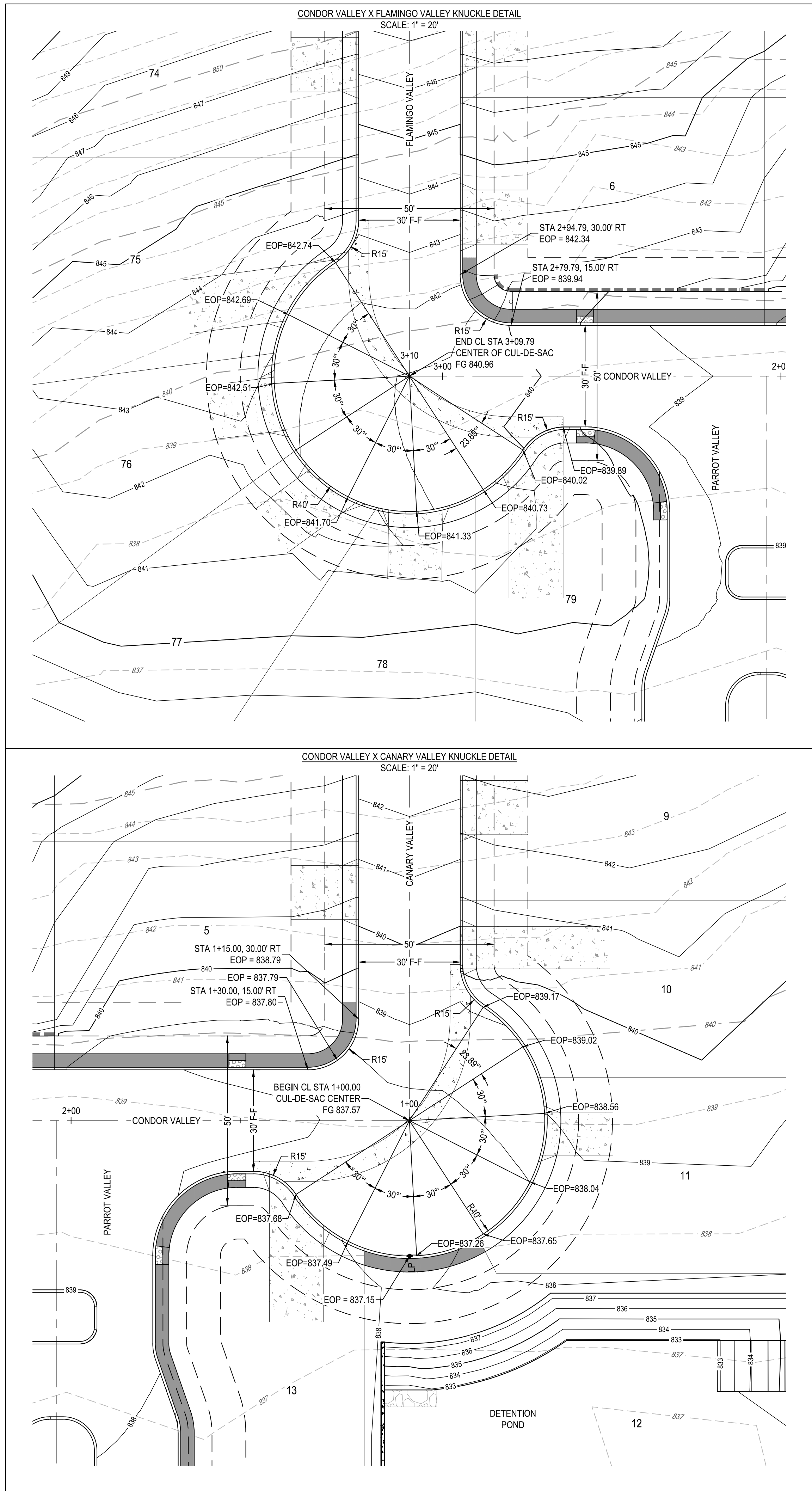
**PRIVATE STREET DESIGNATION:**  
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NOT FOR CONSTRUCTION



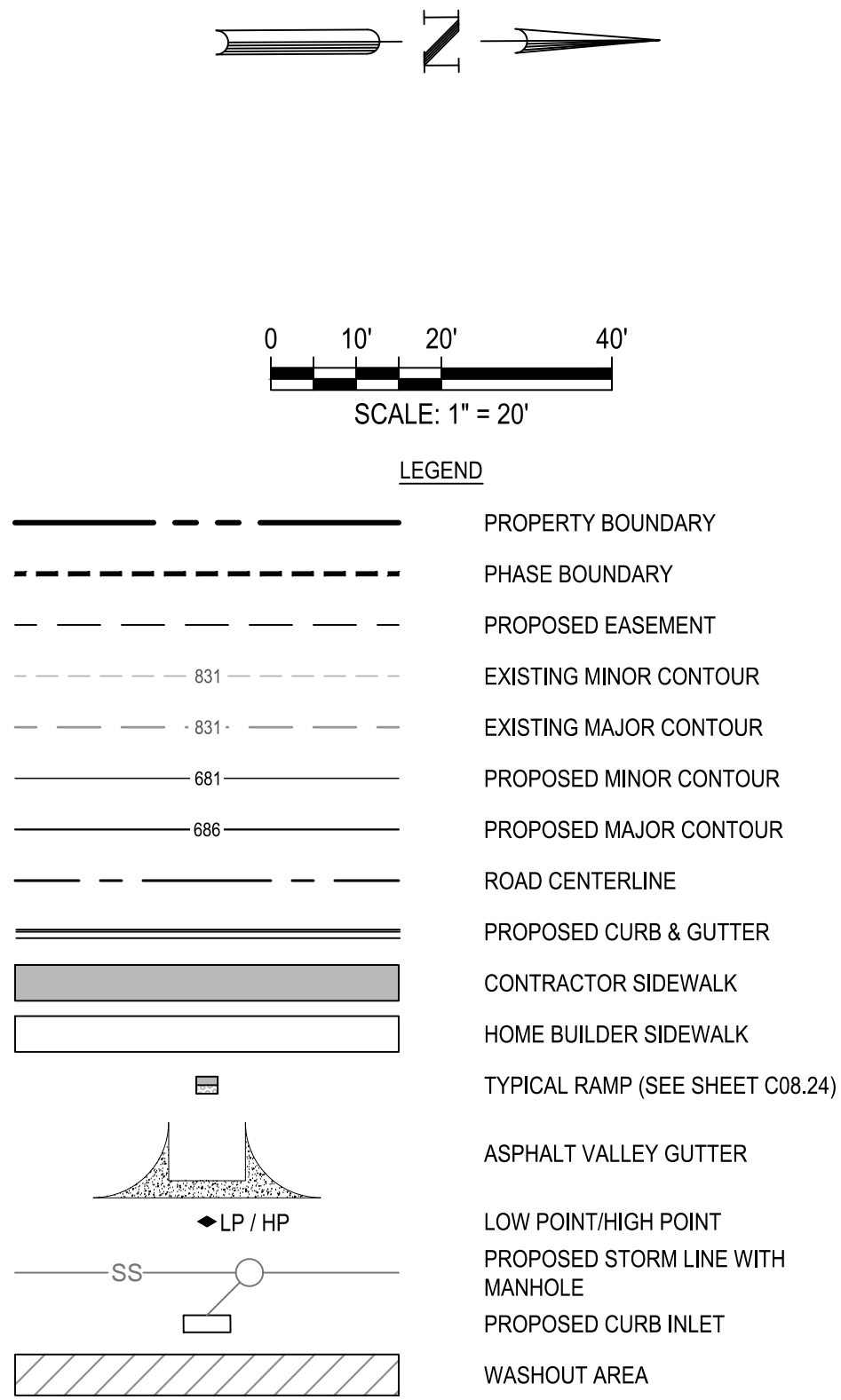






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**NOTE:**  
CONTRACTOR SHALL ENSURE THAT PROPOSED A.D.A. RAMPS AND ACCESSIBLE ROUTES ALONG ROAD CROSSING COMPLY WITH SPECIFICATIONS FOR BOTH RUNNING SLOPE AND CROSS SLOPE.


- \* CONTRACTOR TO FIELD VERIFY AND NOTIFY ENGINEER OF ANY DISCREPANCIES.

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NOTES:

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5. CONTRACTOR TO COORDINATE WITH DEVELOPER REGARDING TREE WELLS TO ENSURE TREES TO REMAIN ARE SAVED. CONTRACTOR TO REFERENCE LOTSIDE PLANS FOR TREE WELLS AND FINISHES.
6. CONTRACTOR SHALL HYDROMULCH OR WOODMULCH ALL DISTURBED AREAS, INCLUDING RIGHT-OF-WAY, STEEP SLOPES, DRAINAGE DITCHES WHERE SOIL SUBGRADE IS ENCOUNTERED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING SUFFICIENT WATERING IN HYDROMULCH AREAS TO ESTABLISH VEGETATION.
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8. ALL DIMENSIONS ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
9. SIDEWALKS ADJACENT TO SINGLE FAMILY LOTS ARE TO BE CONSTRUCTED CONCURRENTLY WITH EACH SINGLE FAMILY HOUSE BY THE HOME BUILDER.

	SHEET	C07.10
HERON VALLEY PHASE 1	KNUCKLE DETAILS	
		<p><b>BGE INC.</b>            7330 San Pedro, Suite 212            San Antonio, TX 78216            TEL: 210-581-3600 www.browning.com            TBPE Registration No. F-1046</p> 
DRAWN BY:	JDC	
REVIEWED BY:	OR	
DESIGNED BY:	JDC	
△	REV	
	DESCRIPTION	DATE
		APR

NOT FOR CONSTRUCTION





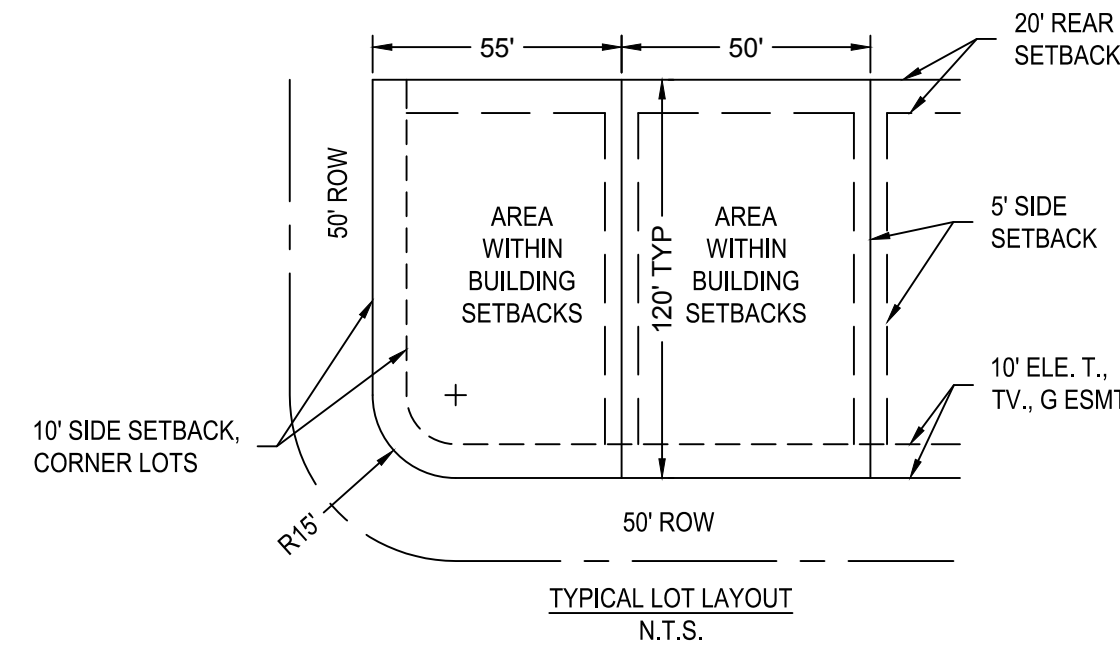
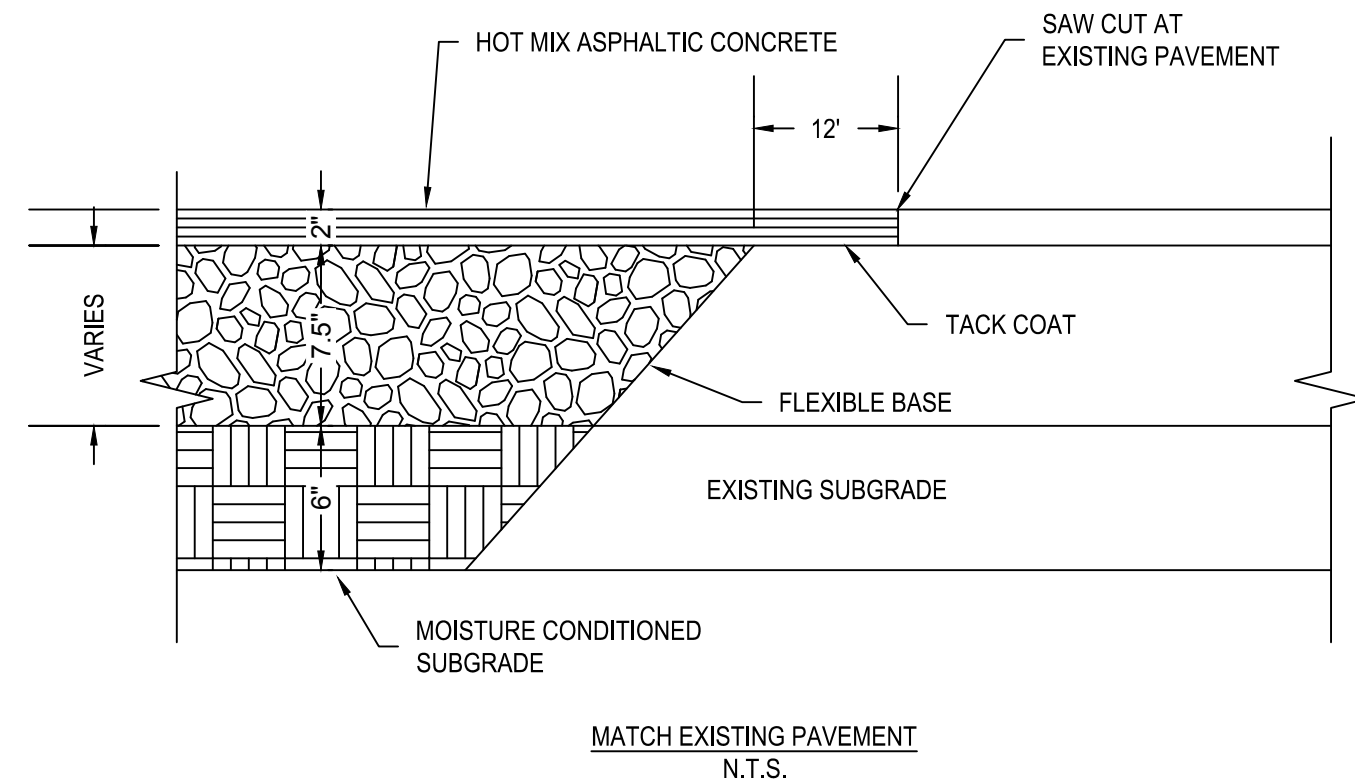
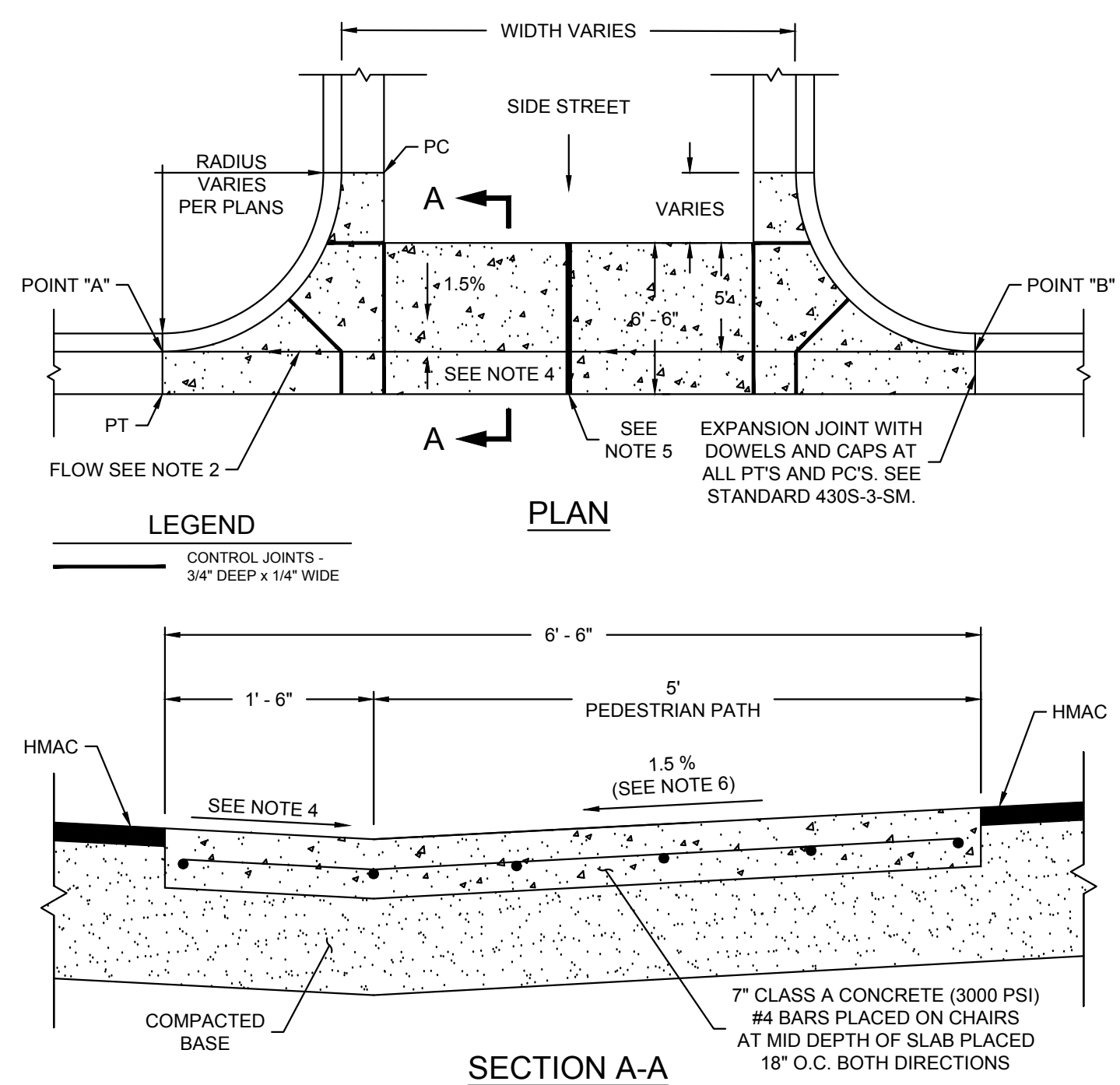
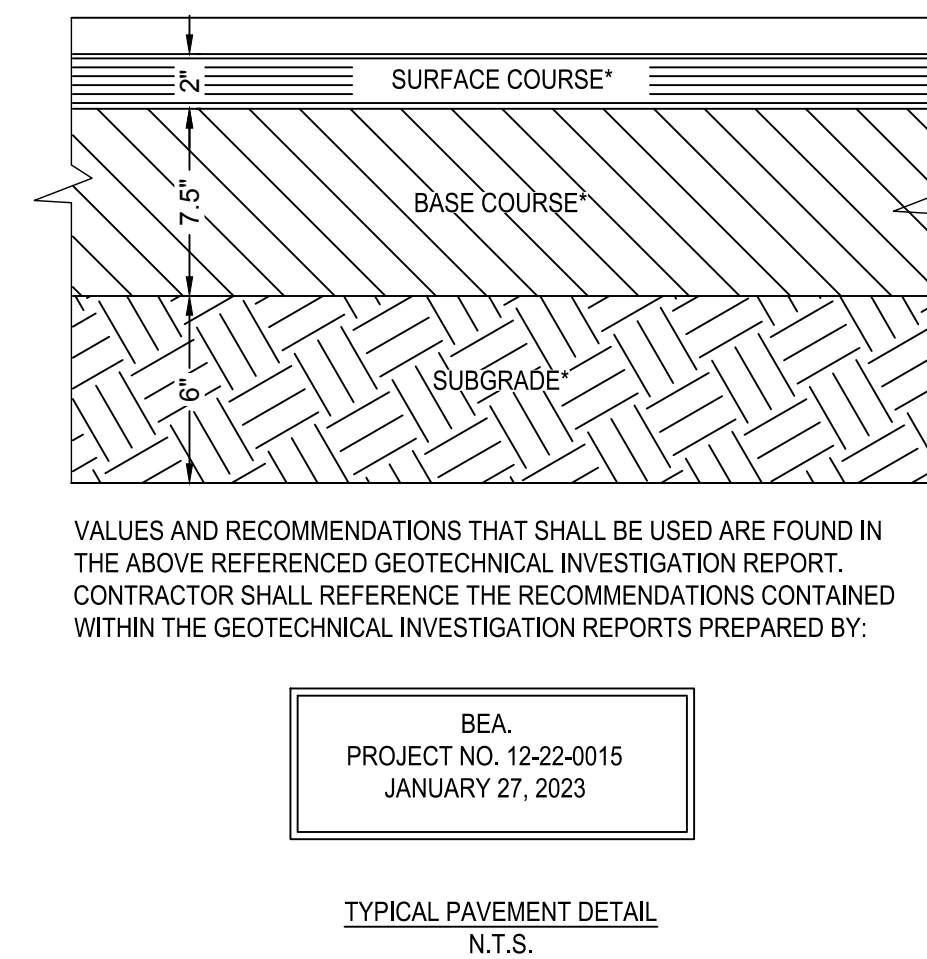
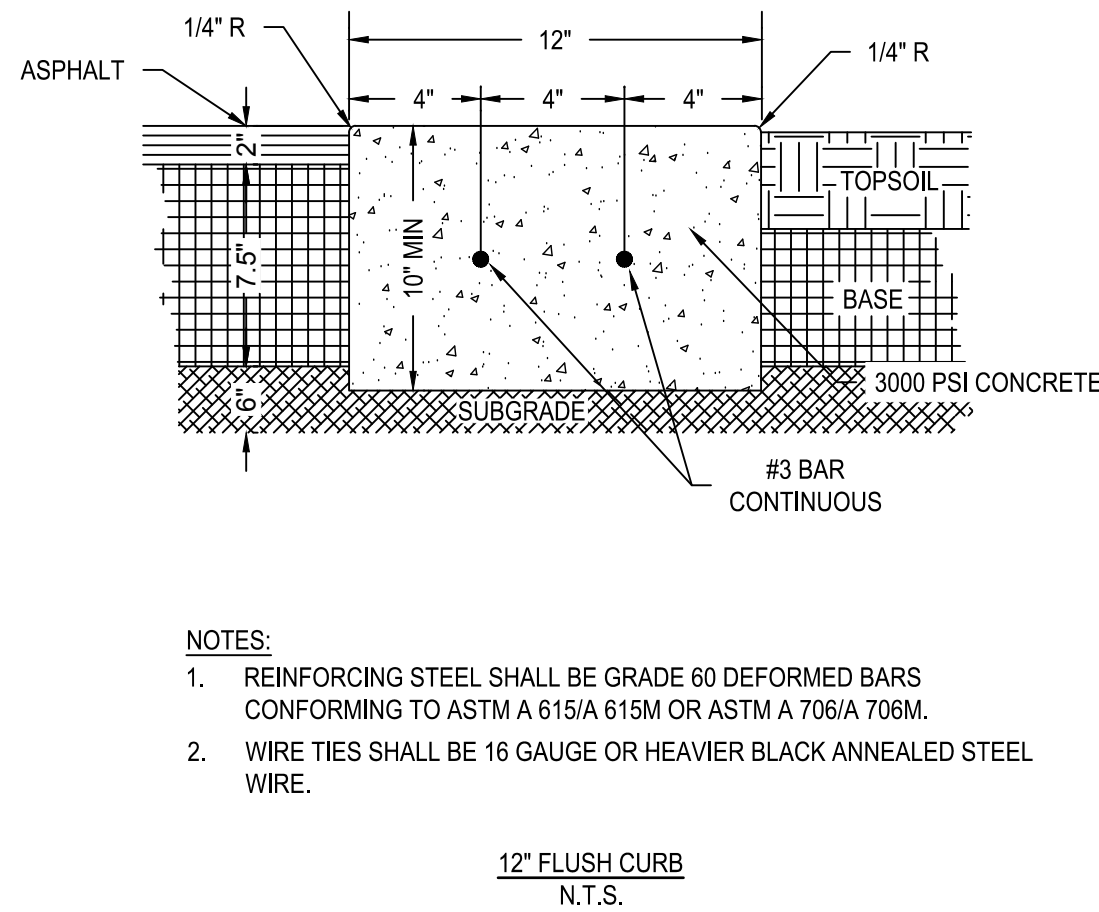
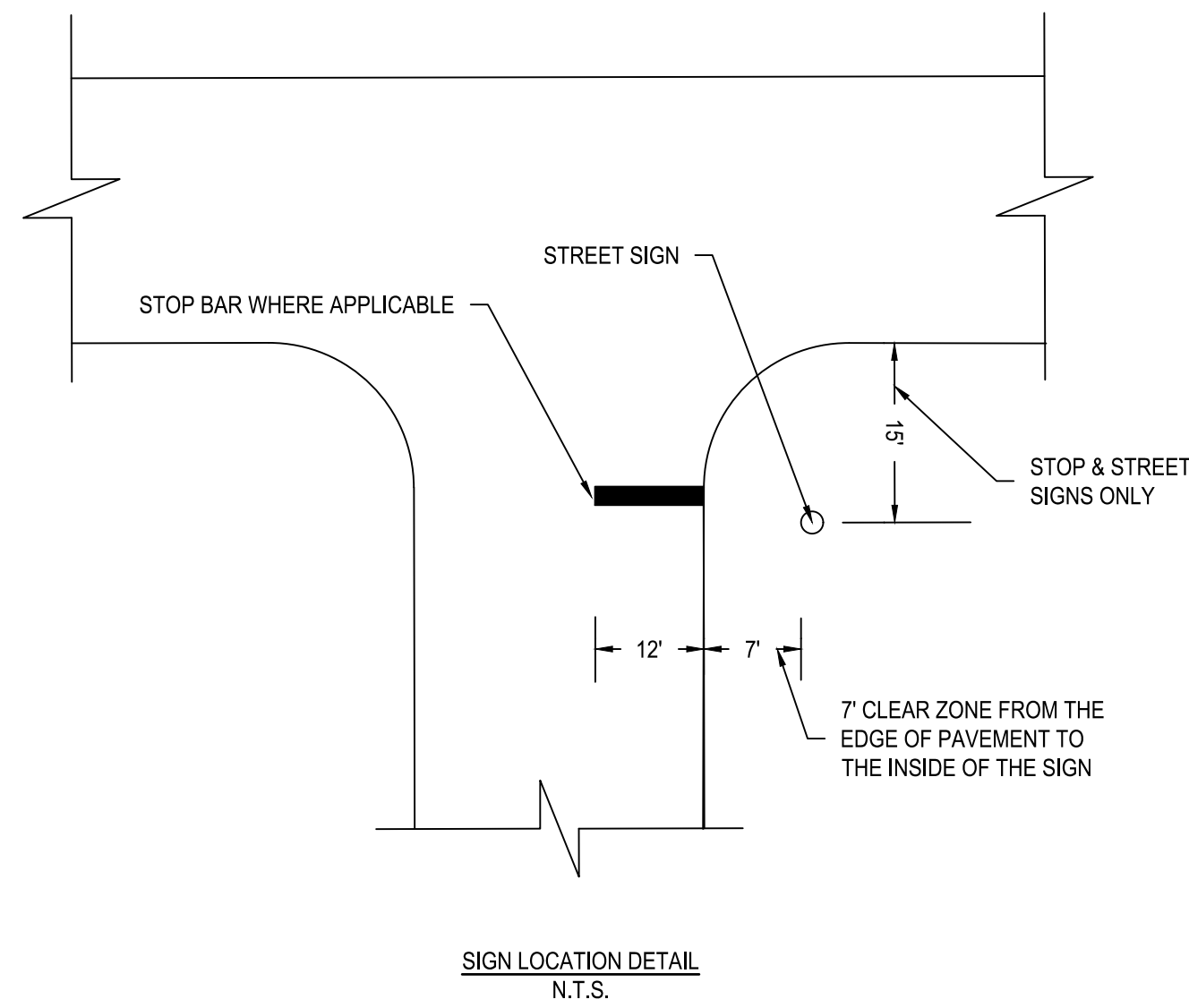
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TBBE Registration No. E 1046

HERON VALLEY PHASE 1

**STREET & DRAINAGE DETAILS**  
**(SHEET 1 OF 5)**

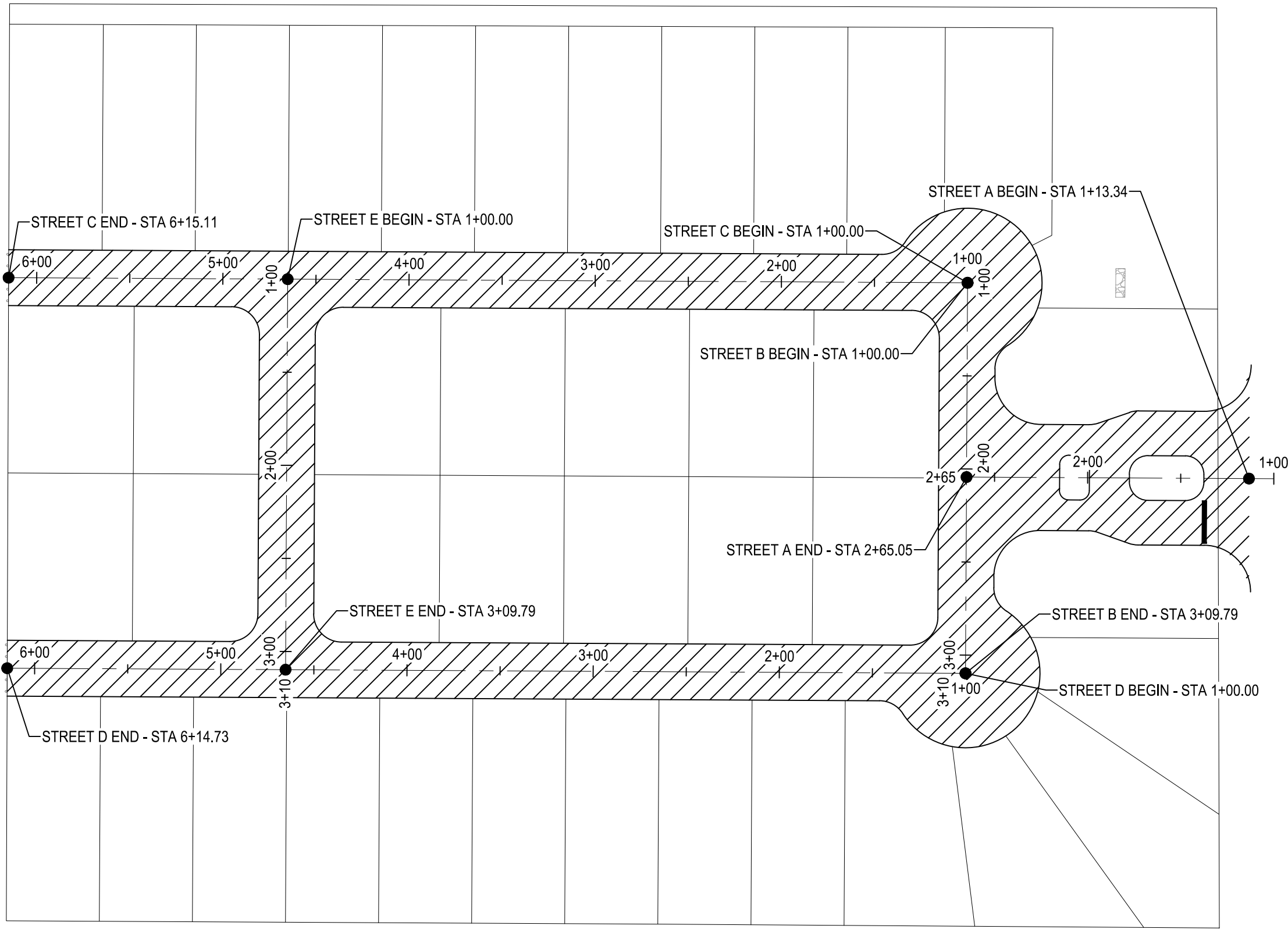
NOT FOR CONSTRUCTION

SHEET  
C08.20



## CONCRETE VALLEY GUTTER



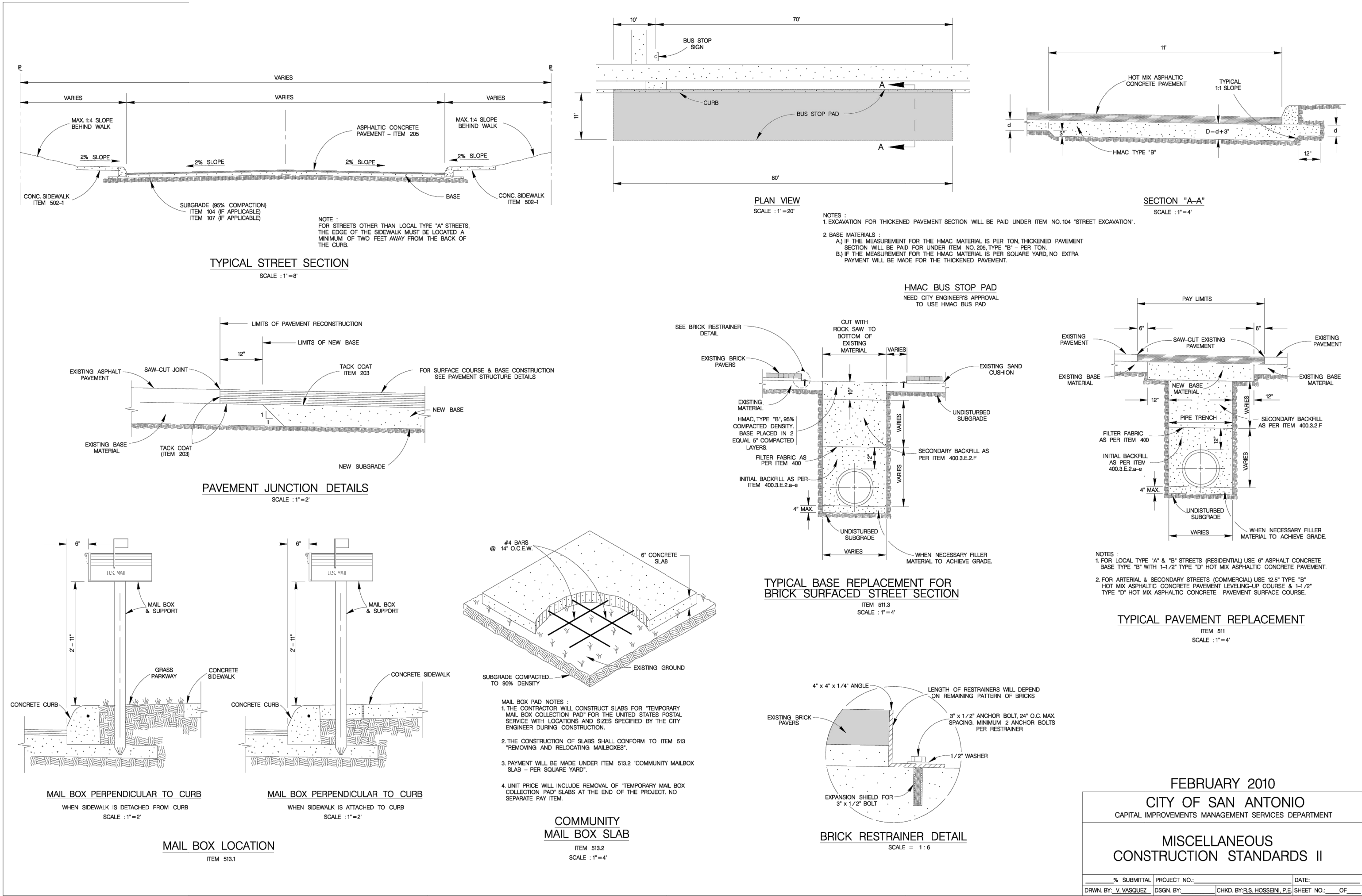
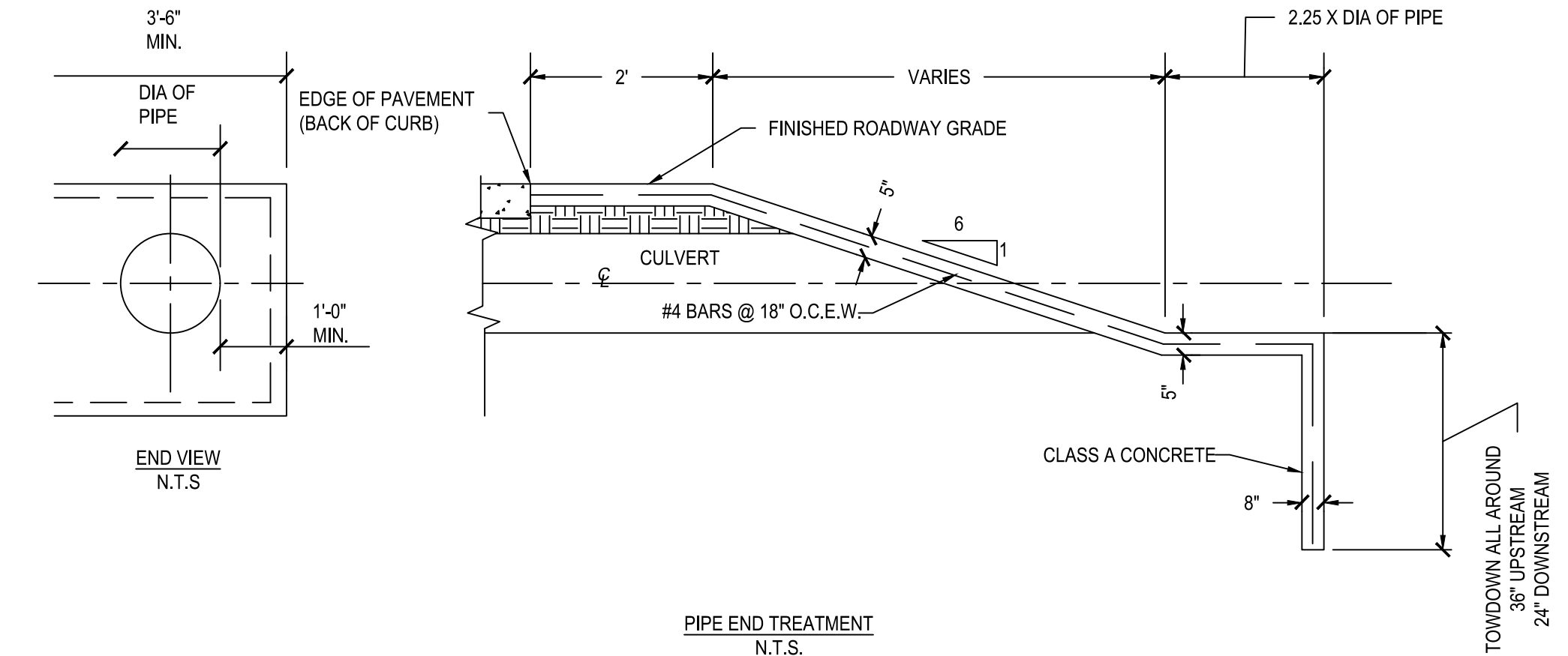
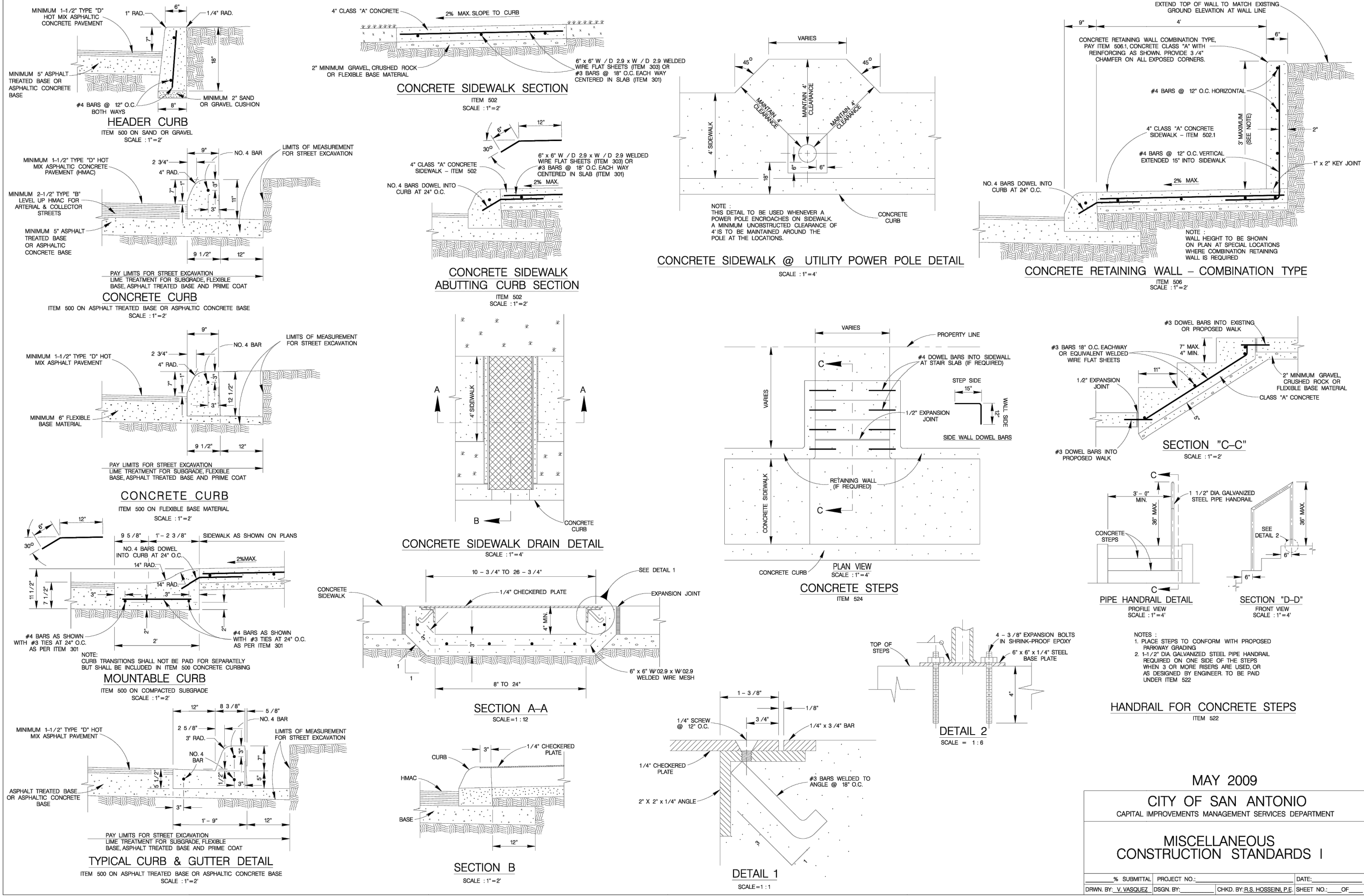


NOTE:  
1. REFERENCE GEOTECHNICAL REPORT (BEA NO. P12-21-306R) FOR BORING INFORMATION AND CBR LOCATIONS.

LEGEND:

LOCAL A STREET -  
STREET A: STA. 1+00 TO 2+65.05  
STREET B: STA. 1+00 TO 3+09.79  
STREET C: STA. 1+00 TO 6+15.11  
STREET D: STA. 1+00 TO 6+14.73  
STREET E: STA. 1+00 TO 3+09.79

STREET CLASSIFICATION	ASPHALTIC CONCRETE TYPE D (IN)	ASPHALTIC CONCRETE TYPE B (IN)	LIMESTONE BASE (IN)	GEOGRID	SUBGRADE (IN)	STRUCTURAL NUMBER
LOCAL A STREET (NO BUS TRAFFIC)	2.00	-	7.50	NO	6	2.41



PLAT NUMBER  
24-11800389

DATE

REV

DESIGNED BY: ###  
REVIEWED BY: ###  
DRAWN BY: ###



BGE, INC.  
7330 San Pedro, Suite 202  
San Antonio, TX 78216  
TEL: 214-381-3600 www.bgeinc.com  
TXPE Registration No. F-1040

HERON VALLEY PHASE 1

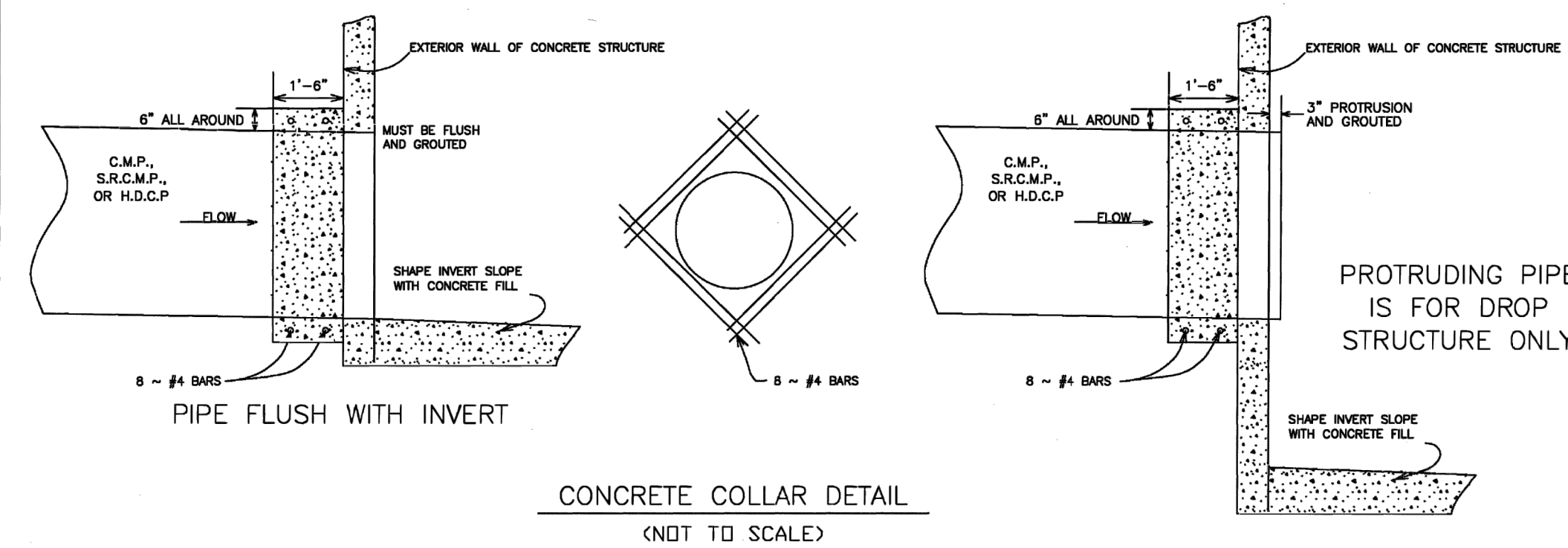
STREET & DRAINAGE DETAILS  
(SHEET 2 OF 5)

NOT FOR CONSTRUCTION

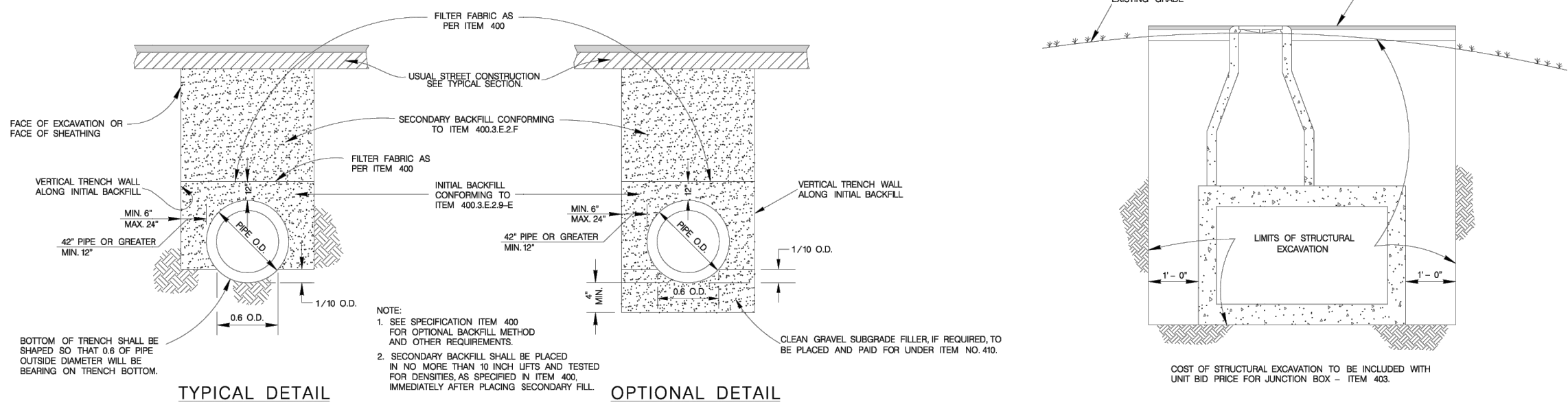
SHEET  
C08.21



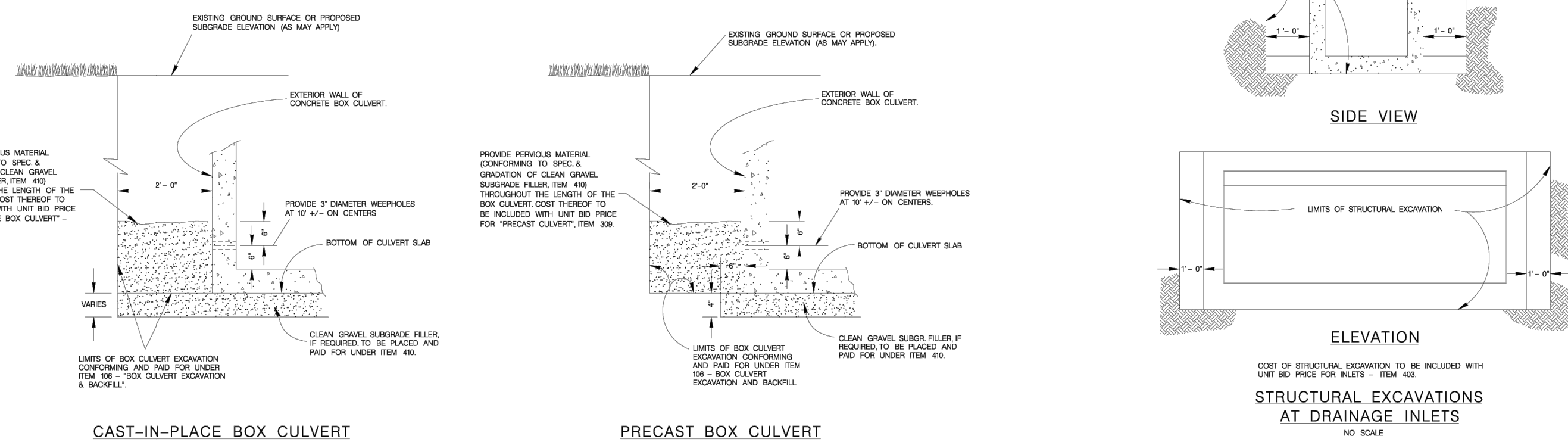
1. CONCRETE FOR STRUCTURE SHALL BE CLASS "A", 3,000 P.S.I. AT 28 DAYS.
2. ALL EXPOSED EDGES SHALL BE CHAMFERED 3/4".
3. REINFORCING STEEL SHALL BE NEW BILLET STEEL, INTERMEDIATE GRADE, ASTM. A-15. THE DEFORMATION SHALL CONFORM TO ASTM. A-305.
4. ALL DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTER OF BARS.
5. ALL BARS INTERCEPTING MANHOLE OPENING AND REINFORCED CONCRETE PIPE SHALL BE FIELD-CUT.
6. WHERE LAPPING OF BARS IS REQUIRED, A MINIMUM LAP OF 33 DIAMETERS SHALL BE USED.
7. INVERT OF JUNCTION BOX TO BE SHAPED WITH CONCRETE FILL (3,000 P.S.I. MIN.) TO EFFECT DRAINAGE TO OUTLET PIPE. COST SUBORDINATE TO CLASS "A" CONCRETE (JUNCTION BOXES).



JANUARY 2006			
STANDARD PLANS CITY OF SAN ANTONIO, TEXAS DEVELOPMENT SERVICES			
CONCRETE COLLAR DETAIL			
DRAWN BY:	DATE:	REVISIONS:	SCALE: SEE ABOVE
ANDREW WENTZ, P.E.			
CHECKED BY:			DATE: 19 JANUARY 2006
SAM DEIT, P.E.			(SHEET 1 OF 1)



### PIPE BEDDING & BACKFILL DETAILS



### CONCRETE BOX CULVERT

MAY 2009			
CITY OF SAN ANTONIO			
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT			
PIPE BEDDING & MISCELLANEOUS DRAINAGE DETAILS			
% SUBMITTAL	PROJECT NO. _____	DATE: _____	
DRAWN BY: _____	DESIGN BY: _____	CHKD. BY: _____	SHEET NO. _____ OF _____

REINFORCING STEEL									
LOWER ULT 10" X 3' - 6" (TYPE I)					LOWER ULT 10" X 5' - 0" (TYPE II)				
BAR	NO	SIZE	SPAC	LENGTH	BAR	NO	SIZE	SPAC	LENGTH
A	12	#4	12"	VARIABLE	A	12	#4	12"	VARIABLE
B	11	#4	12"	4'-6"	B	11	#4	12"	5'-0"
B <sub>1</sub>	VARIES	#4	12"	4'-6"	B <sub>1</sub>	VARIES	#4	12"	5'-0"
C <sub>1</sub>	20	#4	18"	VARIABLE	C <sub>1</sub>	22	#4	18"	VARIABLE
E <sub>1</sub>	6	#4	18"	VARIABLE	E <sub>1</sub>	8	#4	18"	VARIABLE
F <sub>1</sub>	VARIES	#4	12"	10'-10"	F <sub>1</sub>	VARIES	#4	12"	10'-10"
F <sub>2</sub>	9	#4	—	10'-10"	F <sub>2</sub>	11	#4	—	10'-10"

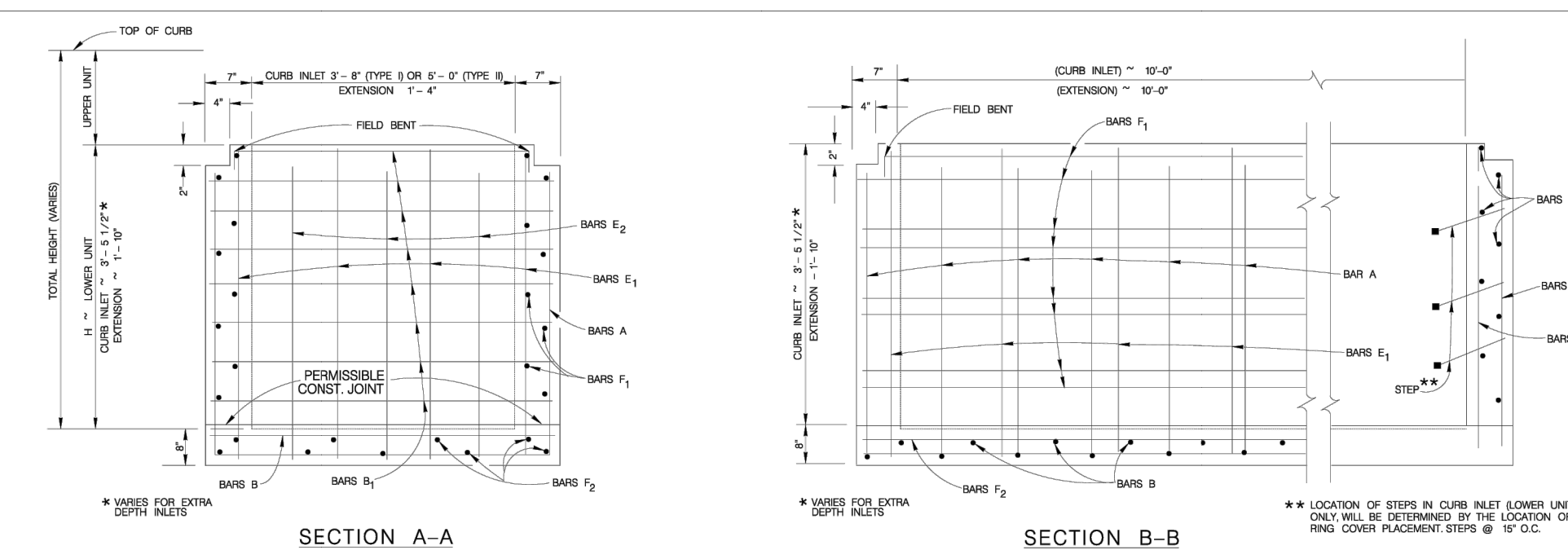
### GENERAL NOTES

- [illegible]

## PHASE CONSTRUCTION

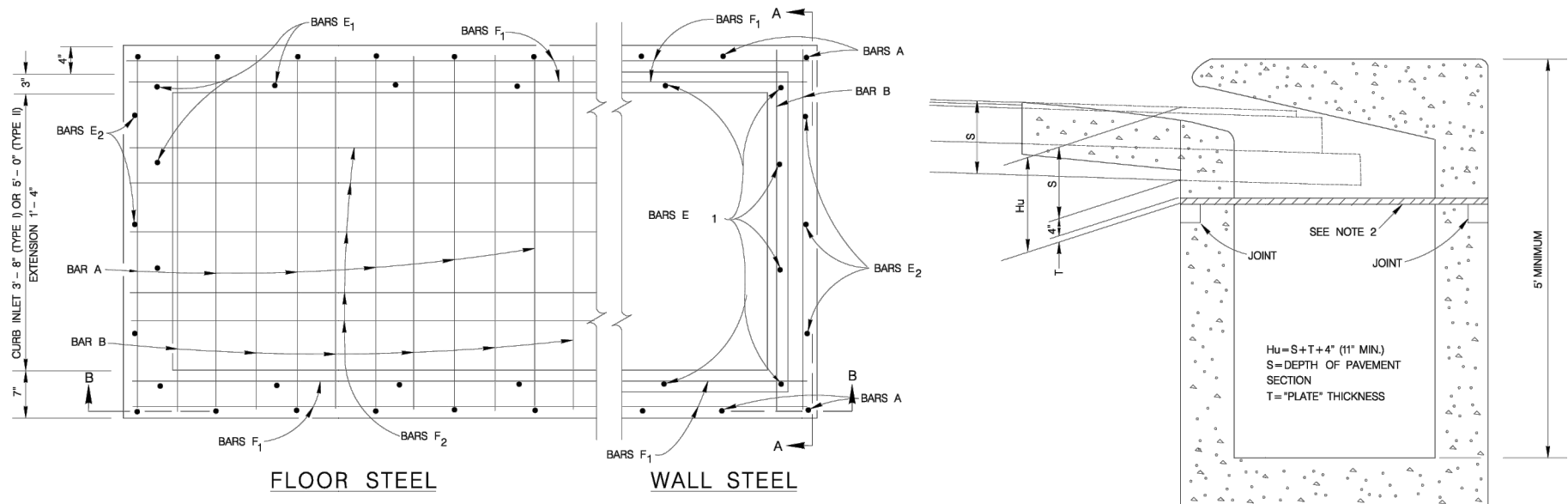
NOTES FOR PHASE CONSTRUCTION (WHEN DIRECTED BY THE ENGINEER):

1. THE CURB INLET AND EXTENSION SHALL BE CONSTRUCTED TO A DEPTH 1/4" BELOW THE INLET AND EXTENSION OUTLET LINE ELEVATION.
2. PAYMENT FOR ALL EXCAVATION BACK-FILLING, CONCRETE, REINFORCING, STEEL CORD, CURB AND MANHOLE AND STOPS SHALL BE INCLUDED IN THE UNIT COST OF THE STORM SEWER JUNCTION BOXES AND PLATES.
3. CAST IRON MANHOLE RING AND COVER TO BE PLACED NEXT TO OUTLET PIPE OFFSET. VERTICAL OUTLET PIPE IN WHICH CASE MANHOLE RING AND COVER WILL BE OFFSET.
4. GALVANIZED BOLTS, NUTS, WASHERS, PLATES AND GASKETS ARE SUBSIDIARY TO INLET.
5. THE CONTRACTOR SHALL PROVIDE AN ADEQUATE MEANS TO LIFT AND PLACE THE INLETS, WHEN USING PRECAST UNITS.
6. ALL BAYS AT PIPE BLOCKOUT LOCATIONS SHALL BE CUT OR BEND.

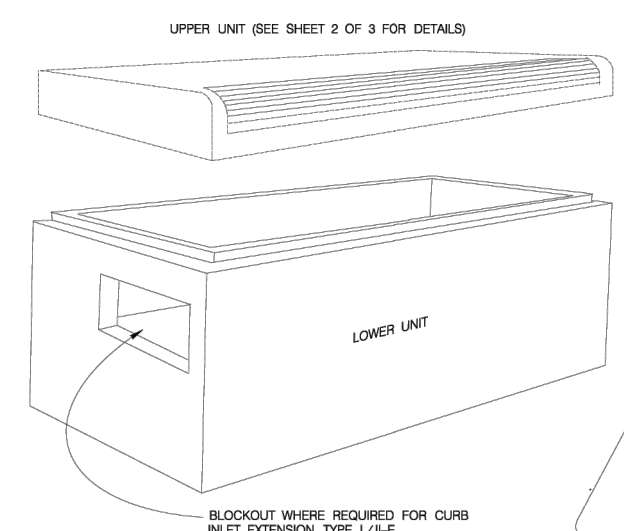


SECTION A-A

SECTION B-B

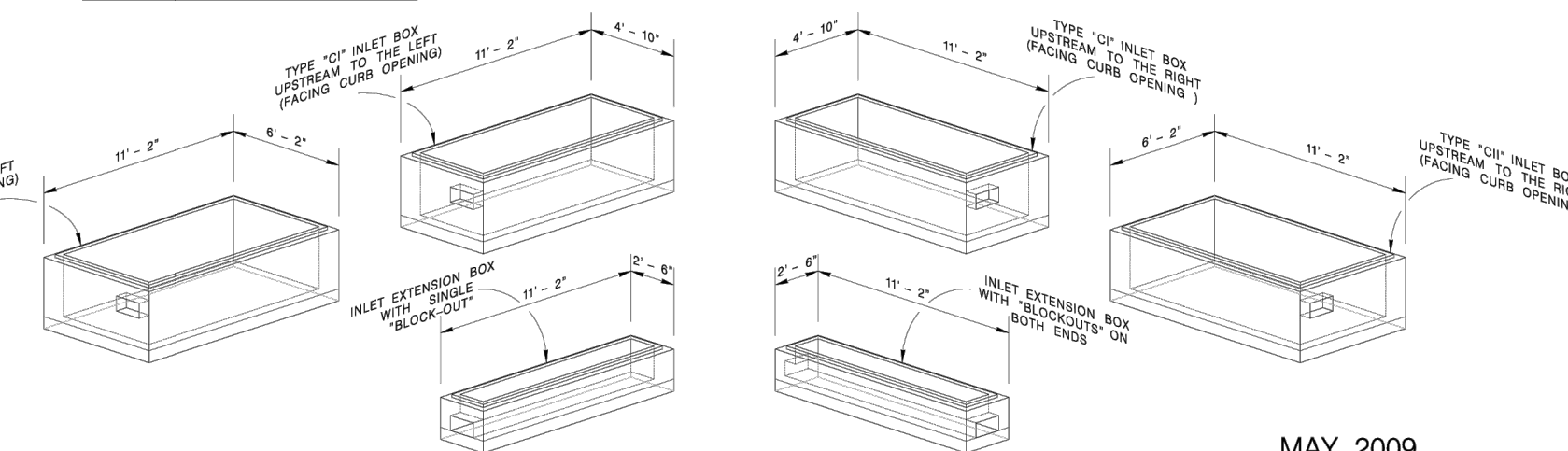


### PLAN



## JOINT DETAIL

WHEN USING PRECAST UPPER UNIT, THIS SPACE IS FOR MAKING MINOR HORIZONTAL AND VERTICAL ADJUSTMENTS TO ACCOMMODATE A FIT BETWEEN THE UPPER AND LOWER UNIT THAT ALLOWS FOR A MATCH LINE AND GRADE BETWEEN THE ROAD CURB AND THE UPPER UNIT OF THE INLET.



### CONCRETE INLET BOX CONFIGURATIONS (LOWER UNITS)

MAY 2009

CITY OF SAN ANTONIO  
CAPITAL IMPROVEMENTS MANAGEMENT SERVICES DEPARTMENT

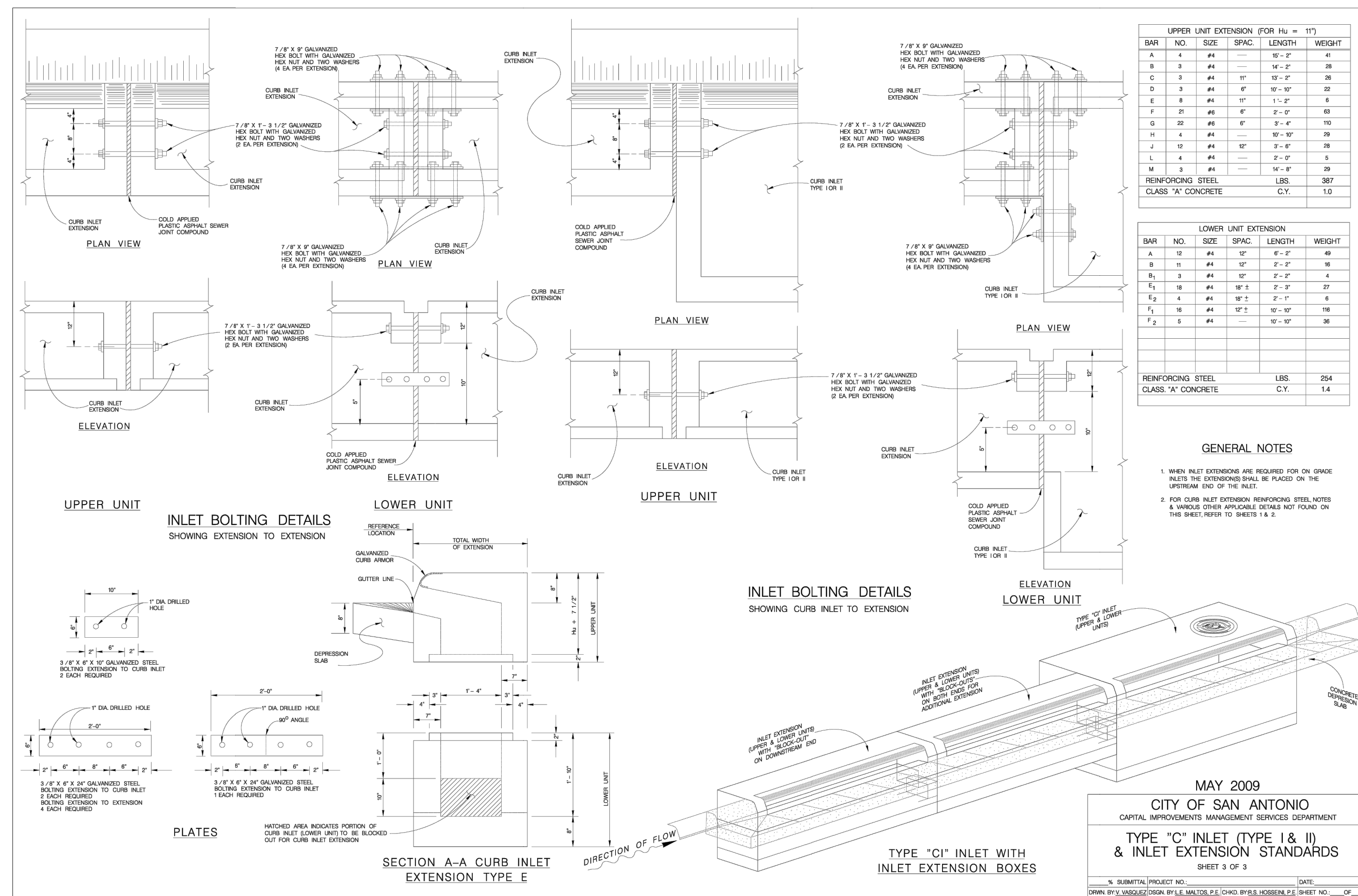
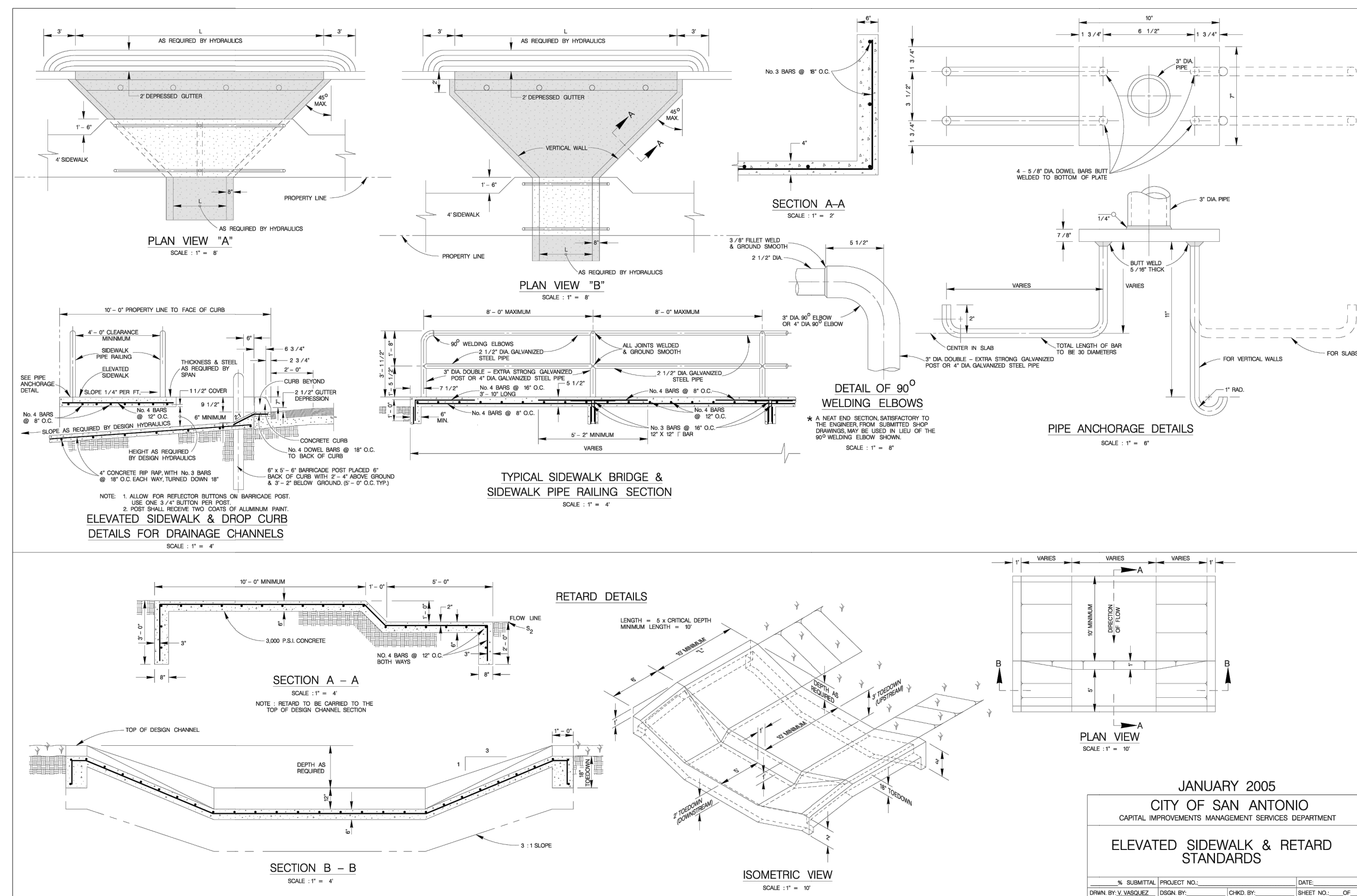
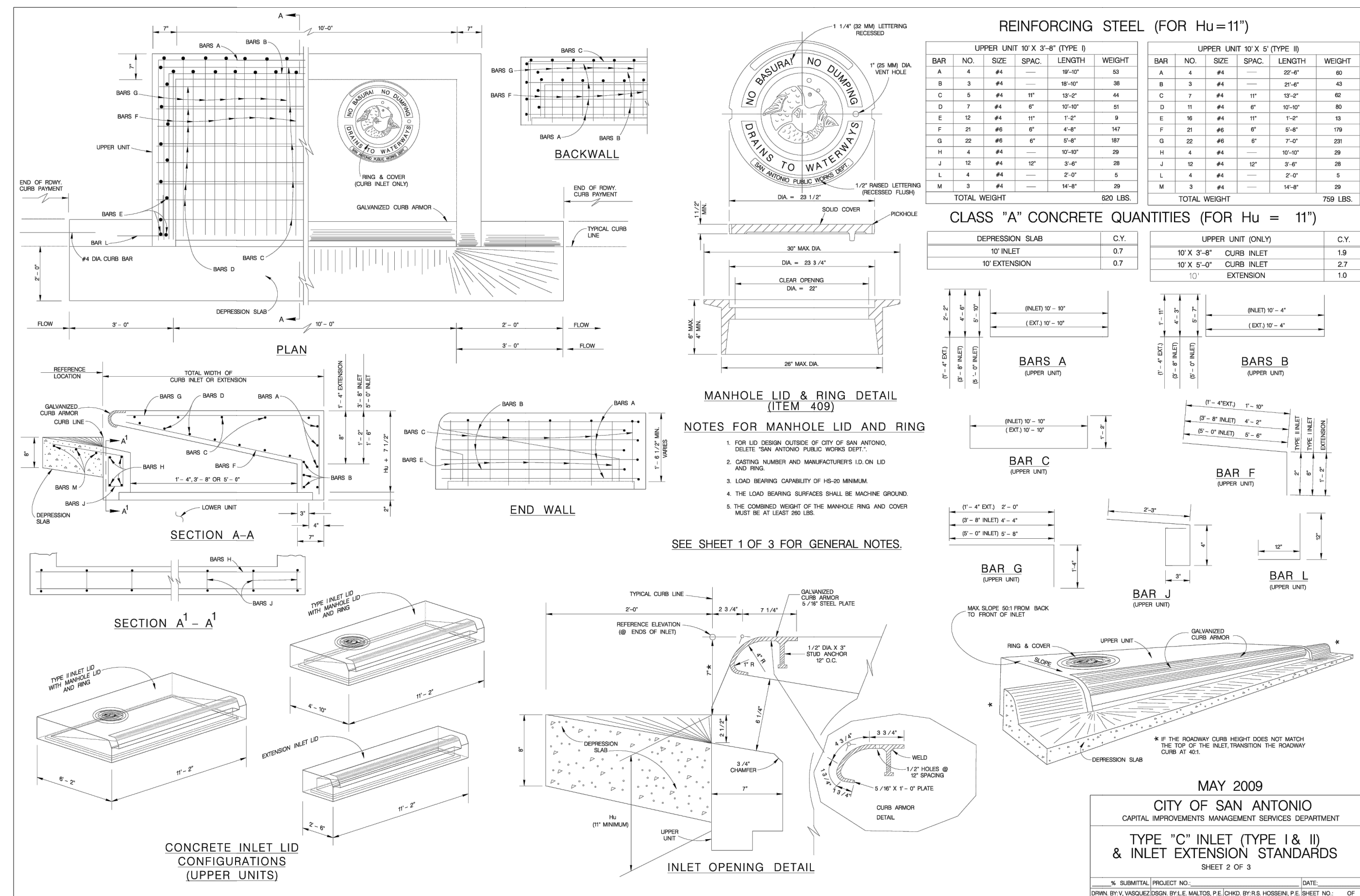
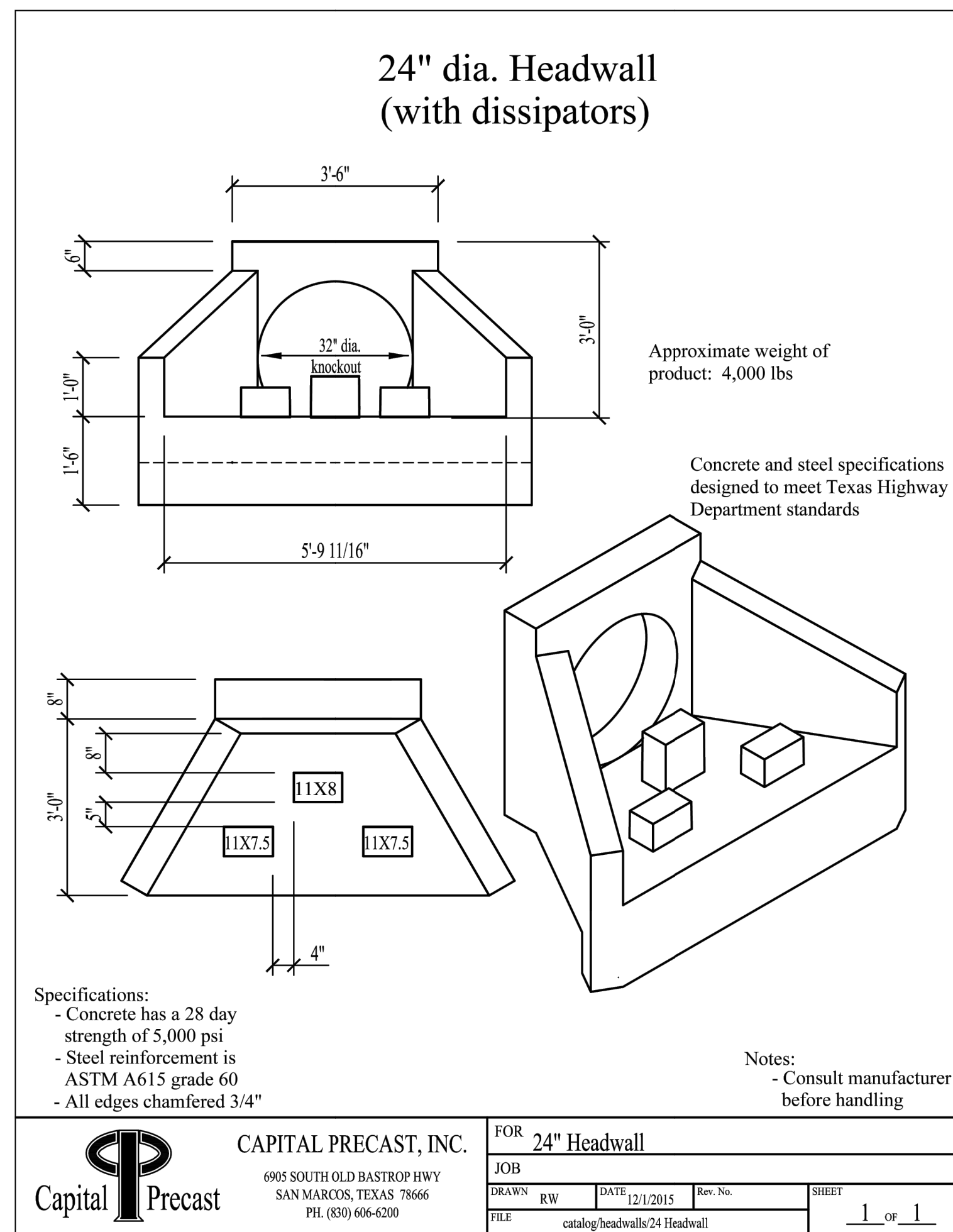
TYPE "C" INLET (TYPE I & II)  
& INLET EXTENSION STANDARDS

SHEET 1 OF 3

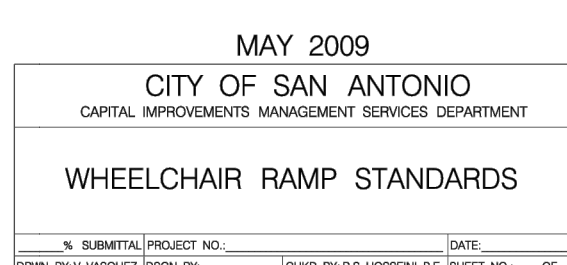
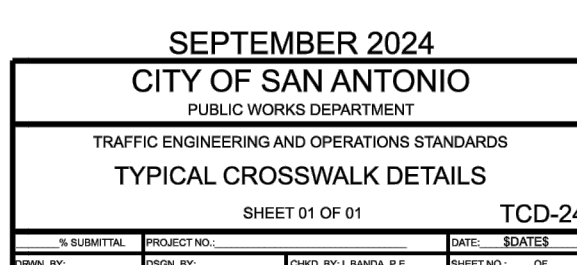
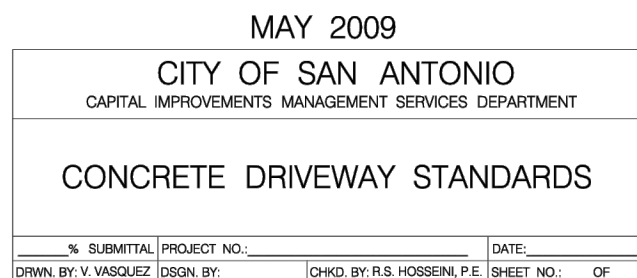


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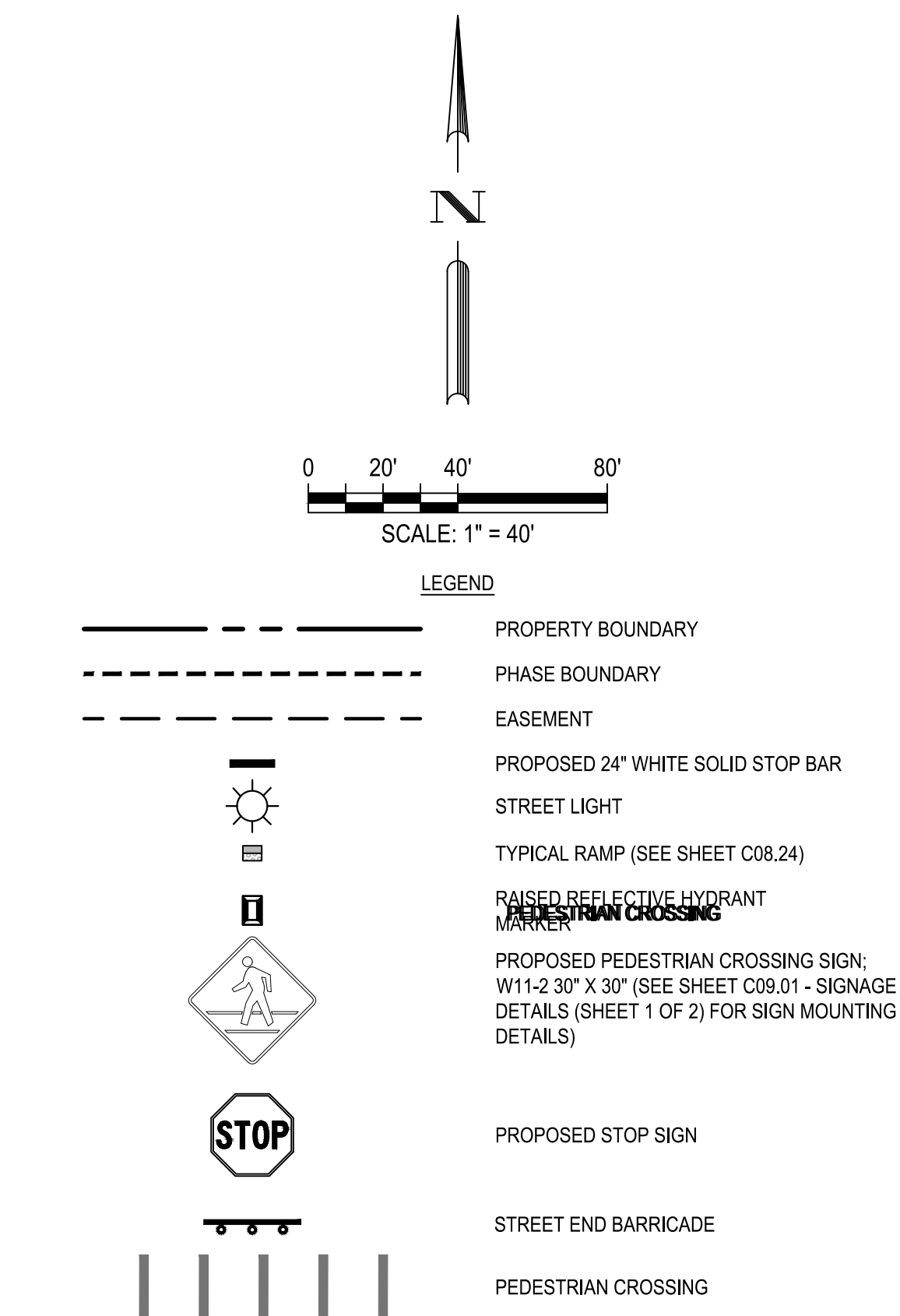












1. SIGN PLACEMENT AND STRIPING PLACEMENT PER TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
2. ALL SIGNS SHALL CONFORM TO THE 2011 TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), REVISION 1, NOVEMBER 2012.
3. PAVEMENT MARKINGS TO BE HOT APPLIED THERMOPLASTIC PER TxDOT SPEC. DMS-8220
4. CONTRACTOR SHALL INSTALL TEMPORARY STREET END MARKERS AND PLACE AT THE END OF EACH PHASE UNTIL PROJECT COMPLETION.
5. POSTED SPEED AROUND THIS PORTION OF LOCAL STREETS SHALL BE 25 MPH.
6. COUNTY WILL INSTALL SIGNAGE AND INVOICE THE OWNER, CONTRACTOR TO INSTALL ALL PAVEMENT MARKINGS AND HYDRANT MARKERS.
7. SEE SHEET C11.12
8. STREETLIGHTS TO BE PLACED ACCORDING TO CPS DESIGN, STREETLIGHT STAKING TO BE COORDINATED WITH CPS.

**BGE, INC.**  
7330 San Pedro, Suite 202  
San Antonio, TX 78216  
TEL: 210-581-3600 [www.browning.com](http://www.browning.com)

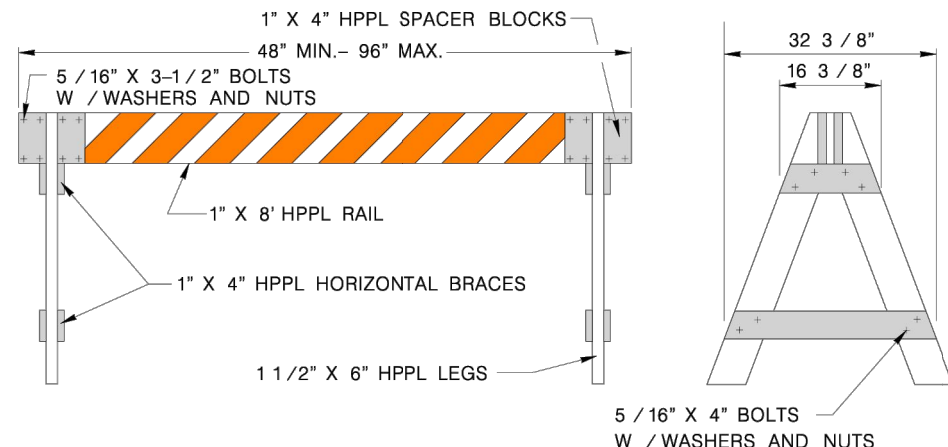
## SIGNAGE PLAN

SHEET  
C09.00



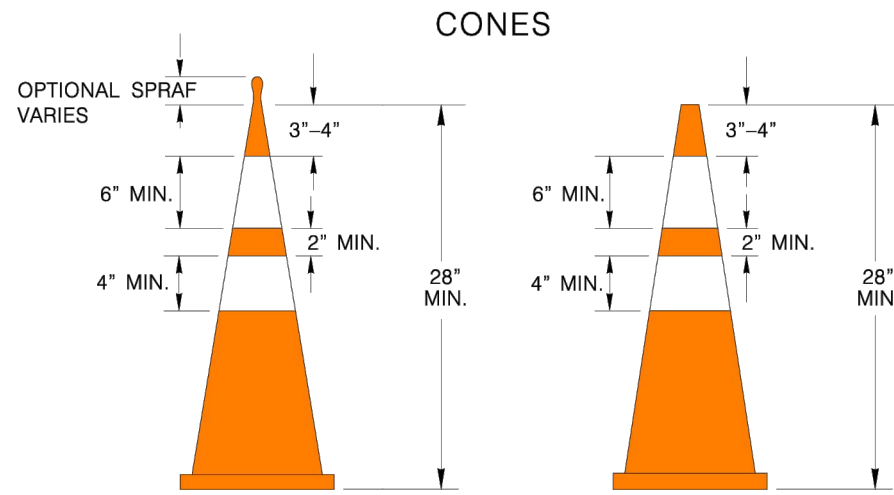






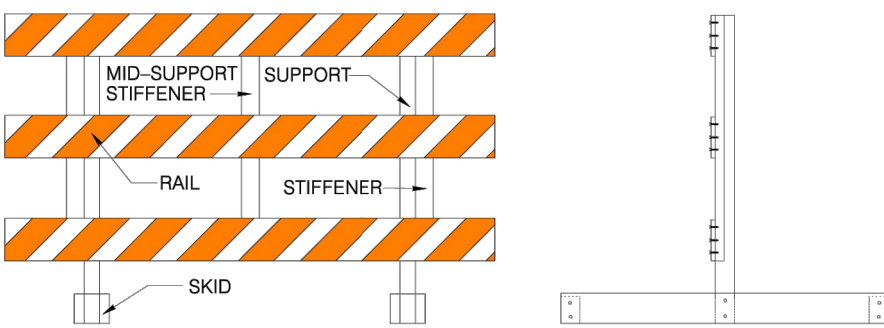
- 1) Only the following Type I barricade shall be used in the City of San Antonio Right-Of-Way:
  - A. 1' x 8" plastic rail with 2' x 6" wooden legs.
  - B. 1' x 8" rail with plastic legs.
  - C. 1' x 8" wooden rail with 2' x 6" wood legs.
  - D. No screws allowed for assembly of A-legs or rail.
  - E. Warning lights will be used as directed by the Traffic Engineer.
  - F. All Type I (4') barricades will be a minimum of 36" high and 60" wide. (See Construction Use Only)
  - G. All Type I (8') barricades with wooden legs shall be 2' X 6" wood only.
  - H. All Type I (4') barricades with wooden legs shall be 1' X 8" wood only.
- 2) Type I Barricades shall not be used for partial and total street closures in construction work zones. Only Type III barricades shall be used for this purpose.
- 3) Warning lights shall not be mounted on Type I barricades.

(See TxDOT BC-03 Sheets for specific construction information)



- 1.) Base for 28" high cones must weigh at least 9.5 lbs
- 2.) Night time cones must have reflective collars.

(See TxDOT BC-03 Sheets for specific construction information)



- 1.) Only the following Type III barricade shall be used in the City of San Antonio Right-Of-Way.
  - A. Hollow polyvinyl or fiberglass tubing post with 1" X 8" wooden rails.
  - B. Hollow polyvinyl or fiberglass tubing post with plastic rails.
  - C. Skids must be wood or solid plastic only.
  - D. Warning lights shall not be mounted on Type III barricades.

(See TxDOT BC-03 Sheets for specific construction information)

## TEMPORARY MARKINGS

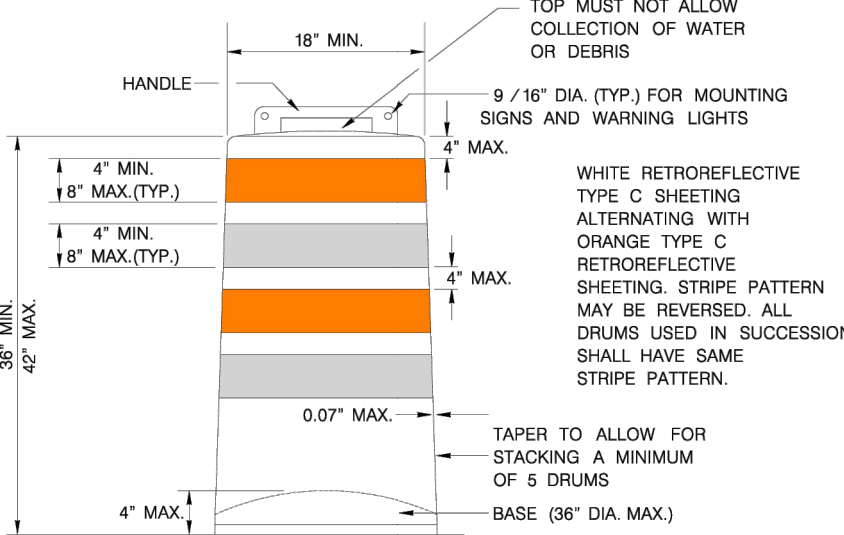
- 1) Solid double yellow painted lines shall be installed for temporary diversion of traffic or construction duration longer than five (5) days, with repainting to occur once monthly or at the discretion of the Traffic Engineer. (All cost of upkeep will be at the contractor's expense.)
- 2) Solid double yellow tabs, or VP panels shall be installed for temporary diversion of traffic for construction duration less than five (5) days, with re-tabling to occur at the discretion of the Traffic Engineer.  
NAILS SHALL NOT BE USED TO FIX TABS TO CEMENT OR BASE COURSE. (All cost of upkeep will be at the contractor's expense.)

(See TxDOT BC-03 Sheets for specific construction information.)

## TEMPORARY CONCRETE BARRIER

- 1.) All concrete barriers placed on City R.O.W. shall be low profile.
- 2.) No high profile barriers will be allowed.
- 3.) Reflectors will be required on each concrete barrier.

(See TxDOT BC-03 Sheets for specific construction information)



- 1) Drums and all related items shall comply with the requirements of the current version of the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) and the "Compliant Work Zone Traffic Control Devices List" (CWZTCD).
- 2) Drums, bases, and related materials shall exhibit good workmanship and shall be free from objectionable marks or defects that would adversely affect their appearance or serviceability.
- 3) The Engineer/Inspector shall provide written notice to the Contractor regarding the replacement of drums or other traffic control devices. The Contractor shall have a maximum of 24 hours to replace any plastic drums or other traffic control devices identified for replacement by the Engineer/Inspector. The replacement device must be an approved device.
- 4) Each drum must have a 40 lb. rubber or plastic snap on.
- 5) No signs larger than 18" X 24" will be allowed to be mounted on plastic drums.
- 6) No warning lights will be allowed to be mounted on plastic barrels.
- 7) In lieu of a warning light, a yellow reflector will be acceptable.

(See TxDOT BC-03 Sheets for specific construction information)

THE ORIGINAL OF THIS DRAWING WAS SIGNED AND SEALED BY JOHN D. FREIBELE, #46394 ON 06-20-05 AND IS ON FILE WITH THE TRAFFIC ENGINEERING DIVISION OF THE PUBLIC WORKS DEPARTMENT, CITY OF SAN ANTONIO.

JUNE 2005			
CITY OF SAN ANTONIO			
DEPARTMENT OF PUBLIC WORKS			
TRAFFIC STANDARDS			
BARRICADE AND CONSTRUCTION			
STANDARDS			
SHEET 3 OF 4			
% SUBMITAL	PROJECT NO.	DATE:	
DRAIN BY: A.E.G.	OSGN. BY: E.N.M.	CHKD BY: J.D.F./E.N.M.	SHEET NO. OF



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TDEE Registration No. E 4045