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21. ALL TESTING SHALL BE DONE BY AN INDEPENDENT LABORATORY. THE ENGINEER OF RECORD AND/OR OWNER'S REPRESENTATIVE SHALL BE PRESENT DURING ALL TESTS. A MINIMUM OF 24 HOURS NOTICE SHALL BE GIVEN PRIOR TO ANY TESTING. CONTRACTOR SHALL BE RESPONSIBLE FOR CALLING FOR TESTING BY THE MATERIALS TESTING FIRM.

22. BACKFILL BEHIND THE CURB SHALL BE COMPACTED TO OBTAIN A MINIMUM OF 95% MAXIMUM DENSITY (TEX 113-E) TO WITHIN 1" OF TOP OF CURB. MATERIAL USED SHALL BE PRIMARILY CLEAN TOPSOIL.

23. A MODIFIED PROCTOR DENSITY TEST SHALL BE PROVIDED AT THE CONTRACTOR'S EXPENSE FOR EACH TYPE OF MATERIAL TO BE USED IN ALL TYPES OF CONSTRUCTION WHERE DENSITY REQUIREMENTS ARE SPECIFIED. SAMPLING LOCATIONS SHALL BE SELECTED AT INTERVALS NOT TO EXCEED THREE HUNDRED (300) FEET.

24. WHERE MATERIALS SUCH AS FLEXIBLE BASE, SUB-BASE, PORTLAND CEMENT CONCRETE AND HOT-MIX ASPHALTIC CONCRETE ARE USED, SUFFICIENT TESTS AS DETERMINED BY THE PROJECT ENGINEER WILL BE MADE TO ASSURE COMPLIANCE TO SPECIFICATION REQUIREMENTS. OTHER MATERIALS MAY BE ACCEPTED ON THE BASIS OF MANUFACTURER'S LITERATURE AND GRADE MARKINGS AT THE OPTION OF THE CITY ENGINEER AND THE PUBLIC WORKS DIRECTOR.

25. ONE FIELD DENSITY TEST ON "UTILITY TRENCH BACKFILL" WITHIN PROPOSED PAVEMENT SECTIONS SHALL BE REQUIRED AND ONE (1) FOR EACH TWO HUNDRED (200) FEET PER 8 INCH LIFT OF BACKFILL MATERIAL OF EACH UTILITY TRENCH CONSTRUCTED.

26. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE APPROVED PLANS AND THE APPLICABLE PROVISIONS OF THE PROJECT SPECIFICATIONS AND SHALL FURNISH SUFFICIENT SUPERVISION TO INSURE THAT THE WORK IS ACCOMPLISHED IN A SATISFACTORY MANNER. A CITY OF BURNET INSPECTOR OR, ENGINEER OF RECORD WILL OBSERVE THE WORK TO DETERMINE THAT THE WORK DOES COMPLY WITH ALL REQUIREMENTS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO KEEP THE ENGINEER OF RECORD ADVISED OF SCHEDULED WORK AND TO NOTIFY THE ENGINEER OF RECORD WHEN WORK IS READY FOR REVIEW OR ACCEPTANCE, AND NO WORK OR INCREMENTS THEREOF WILL BE ACCEPTED WITHOUT INSPECTION UNLESS THE REQUIREMENT FOR REVIEW IS WAIVED BY THE ENGINEER OF RECORD AND THE CITY OF BURNET.

27. THE CONTRACTOR SHALL AT ALL TIMES CONDUCT THE WORK IN SUCH MANNER AS TO INSURE THE LEAST POSSIBLE OBSTRUCTION TO PUBLIC TRAFFIC AND PROTECT THE SAFETY OF THE PUBLIC. PUBLIC SAFETY AND CONVENIENCE AND PROVISIONS THEREFORE MADE NECESSARY BY THE WORK SHALL BE THE DIRECT RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED AT THE CONTRACTOR'S EXPENSE. MATERIALS PLACED ON THE SITE, OR MATERIALS EXCAVATED AND THE CONSTRUCTION MATERIALS OR EQUIPMENT USED SHALL BE LOCATED SO AS TO CAUSE AS LITTLE OBSTRUCTION TO THE PUBLIC AS POSSIBLE. THE CONTRACTOR SHALL AT ALL TIMES CONDUCT HIS OPERATIONS AND THE USE OF CONSTRUCTION MACHINERY, SO AS NOT TO DAMAGE OR DESTROY

IMPROVEMENTS, TREES AND SHRUBS LOCATED ADJACENT TO THE SITE OF THE WORK. WHENEVER ANY SUCH DAMAGE MAY BE DONE, THE CONTRACTOR SHALL IMMEDIATELY SATISFY ALL CLAIMS OF THE PROPERTY OWNERS.

28. THE CONTRACTOR SHALL AT ALL TIMES CONDUCT THE WORK IN SUCH MANNER AS TO INSURE NO DAMAGE TO EXISTING UTILITIES OR OTHER FACILITIES. HOWEVER, IN THE EVENT THAT DAMAGE IS DONE TO EXISTING UTILITIES, THE CONTRACTOR SHALL REPAIR AND REPLACE THEM IMMEDIATELY AND AT HIS ENTIRE EXPENSE. IN THE EVENT PUBLIC FACILITIES ARE DAMAGED WHICH CANNOT BE REPLACED OR REPAIRED BY THE CONTRACTOR, THE CONTRACTOR SHALL INFORM THE CITY OR UTILITY COMPANY INVOLVED AND WILL REIMBURSE THE COSTS FOR THE REPLACING OR REPAIRING OF THE ITEM DAMAGED. THE REIMBURSEMENT SHALL BE A PREREQUISITE TO ANY ACCEPTANCE OF THE CONSTRUCTION WHICH WAS RESPONSIBLE FOR THE DAMAGE.

29. THE CONTRACTOR SHALL PROVIDE BID BONDS, PERFORMANCE BONDS, PAYMENT BONDS, INSURANCE, ETC. AS REQUIRED BY THE CITY.

30. CONTRACTOR SHALL BE AN EQUAL OPPORTUNITY EMPLOYER AND COMPLY WITH ALL LOCAL, STATE, AND FEDERAL REGULATIONS.

CITY OF BURNET
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BURNET, TX 78611
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CHANGES IN UTILITIES AND DETAILS		9/19/23 EB	NO.	DESCRIPTION	DATE	ID



BURNET CITY HALL
GENERAL NOTES
2 OF 4

SHEET NO.
C0.2

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UTILITY NOTES:

1. ALL MATERIALS AND CONSTRUCTION PROCEDURES WITHIN THE SCOPE OF THIS PROJECT SHALL CONFORM TO THE PROJECT SPECIFICATIONS, CITY OF BURNET BUILDING CODE AND REGULATIONS, AS WELL AS OTHER SAFETY CODES AND INSPECTION PROVISIONS APPLICABLE TO THE PROJECT AND REQUIREMENTS OF THE BURNET FIRE DEPARTMENT.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS, TESTS, APPROVALS, AND ACCEPTANCES REQUIRED COMPLETING THE CONSTRUCTION OF THIS PROJECT.
3. 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 PAY ITEMS WILL BE MADE FOR THESE ITEMS.
4. THE CONTRACTOR SHALL EXCAVATE AROUND EXISTING UTILITIES WHICH INTERSECT THE PROPOSED ALIGNMENT OF THE SERVICES AND NOTIFY THE OWNER'S REPRESENTATIVE OF POTENTIAL CONFLICTS, PRIOR TO ANY CONSTRUCTION IN THE AREA.
5. 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/HER OWN EXPENSE.
6. ALL UTILITY CONNECTIONS TO FACILITIES SHALL BE COORDINATED WITH THE CITY OF BURNET.
7. PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED TO THE ELEVATIONS AND GRADES INDICATED; HOWEVER, DEPTH OF BURY FOR ALL WATER PIPES SHALL BE A MINIMUM OF 3', UNLESS OTHERWISE NOTED. DEPTH OF BURY FOR ALL WASTEWATER PIPES SHALL BE A MINIMUM OF 4'.
8. NO WATER JETTING IS ALLOWED ON THIS PROJECT.
9. ALL UTILITY WORK IS SUBJECT TO INSPECTION BY AN AUTHORIZED REPRESENTATIVE OF THE CITY OF BURNET AND NO WORK WILL BE ACCEPTED UNTIL ALL CONSTRUCTION, TESTING, FLUSHING AND DISINFECTION HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPLICABLE PLANS AND CITY OF BURNET SPECIFICATIONS AND TO THE SATISFACTION OF THE PUBLIC WORKS AND ENGINEERING DEPARTMENTS.
10. PIPE MATERIAL TO BE USED FOR CONSTRUCTION OF UTILITY LINES: WATER LINES 0-2" TO BE CONSTRUCTED OF SCH 40 PVC, WATERLINES 2.5"-12" TO BE CONSTRUCTED OF SDR-18, C-900 PVC. GRAVITY WASTEWATER MAINS SDR-26 PVC.

11. CONTACT THE FOLLOWING UTILITY COMPANIES PRIOR TO EXCAVATION:

ATMOS ENERGY
CONTACT: JOHN RAYMER
PHONE: (512) 310-3875

VERIZON (TELEPHONE)
CONTACT: APRIL GORDON
PHONE: (512) 756-1684

PEDERNALES ELECTRIC CO-OP
CONTACT: NICO SOMONETTA
PHONE: (737) 226-9634

TIME WARNER
CONTACT: PETE NAVEJAS
PHONE: (512) 748-1601

NORTHLAND CABLE
CONTACT: LARSON LLOYD
PHONE: (830) 693-7500

CITY OF BURNET
CONTACT: ERIC BELAJ
PHONE: (737) 251-3177

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CHANGES IN UTILITIES AND DETAILS		9/19/23	EB	NO.	DESCRIPTION	DATE	ID



BURNET CITY HALL
GENERAL NOTES
3 OF 4

SHEET NO.
C0.3

TCEQ WATER CONSTRUCTION NOTES:

1. THIS WATER DISTRIBUTION SYSTEM MUST BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) RULES AND REGULATIONS FOR PUBLIC WATER SYSTEMS 30 TEXAS ADMINISTRATIVE CODE (TAC) CHAPTER 290 SUBCHAPTER D.
2. ALL NEWLY INSTALLED PIPES AND RELATED PRODUCTS MUST CONFORM TO AMERICAN NATIONAL STANDARDS INSTITUTE/ NATIONAL SANITATION FOUNDATION (ANSI/NSF) STANDARD 61 AND MUST BE CERTIFIED BY AN ORGANIZATION ACCREDITED BY ANSI.
3. PLASTIC PIPE FOR USE IN PUBLIC WATER SYSTEMS MUST BEAR THE NATIONAL SANITATION FOUNDATION SEAL OF APPROVAL (NSF-PW) AND HAVE AN ASTM DESIGN PRESSURE RATING OF AT LEAST 150 PSI OR A STANDARD DIMENSION RATIO OF 26 OR LESS.
4. NO PIPE WHICH HAS BEEN USED FOR ANY PURPOSE OTHER THAN THE CONVEYANCE OF DRINKING WATER SHALL BE ACCEPTED OR RELOCATED FOR USE IN ANY PUBLIC DRINKING WATER SUPPLY.
5. WATER TRANSMISSION AND DISTRIBUTION LINES MUST BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTRUCTIONS. HOWEVER, THE TOP OF THE WATER LINE MUST BE LOCATED BELOW THE FROST LINE AND IN NO CASE SHALL THE TOP OF THE WATER LINE BE LESS THAN 24 INCHES BELOW GROUND SURFACE.
6. THE HYDROSTATIC LEAKAGE RATE SHALL NOT EXCEED THE AMOUNT ALLOWED OR RECOMMENDED BY AWWA FORMULA FOR PVC PIPE: $L=(N)(D)(P^{0.5})/133,200$. THE FORMULA FOR DUCTILE OR CAST IRON PIPE IS $L=(S)(D)(P^{0.5})/148,000$.
7. THE USE OF PIPES AND PIPE FITTINGS THAT CONTAIN MORE THAN 8.0% LEAD OR SOLDER AND FLUX THAT CONTAIN MORE THAN 0.2% LEAD IS PROHIBITED FOR INSTALLATION OR REPAIR OF ANY PUBLIC WATER SUPPLY AND FOR INSTALLATION OR REPAIR OF ANY PLUMBING IN A RESIDENTIAL OR NONRESIDENTIAL FACILITY PROVIDING WATER FOR HUMAN CONSUMPTION AND CONNECTED TO A PUBLIC DRINKING WATER SUPPLY SYSTEM.
8. THE CONTRACTOR SHALL INSTALL APPROPRIATE AIR RELEASE DEVICES IN THE DISTRIBUTION SYSTEM AT ALL POINTS WHERE TOPOGRAPHY OR OTHER FACTORS MAY CREATE AIR LOCKS IN THE LINES. ALL VENT OPENINGS TO THE ATMOSPHERE SHALL BE COVERED WITH 16-MESH OR FINER, CORROSION RESISTANT SCREENING MATERIAL OR AN ACCEPTABLE EQUIVALENT.
9. THE SYSTEM SHALL BE DESIGNED TO AFFORD EFFECTIVE CIRCULATION OF WATER WITH A MINIMUM OF DEAD ENDS. ALL DEAD-END MAINS SHALL BE PROVIDED WITH ACCEPTABLE FLUSH VALVES AND DISCHARGE PIPING. ALL DEAD-END LINES LESS THAN TWO INCHES IN

DIAMETER WILL NOT REQUIRE FLUSH VALVES IF THEY END AT A CUSTOMER SERVICE. WHERE DEAD ENDS ARE NECESSARY AS A STAGE IN THE GROWTH OF THE SYSTEM, THEY SHALL BE LOCATED AND ARRANGED TO ULTIMATELY CONNECT THE ENDS TO PROVIDE CIRCULATION.

10. THE CONTRACTOR SHALL MAINTAIN A MINIMUM SEPARATION DISTANCE IN ALL DIRECTIONS OF NINE FEET BETWEEN THE PROPOSED WATERLINE AND WASTEWATER COLLECTION FACILITIES INCLUDING MANHOLES AND SEPTIC TANK DRAINFIELDS. IF THIS DISTANCE CANNOT BE MAINTAINED, THE CONTRACTOR MUST IMMEDIATELY NOTIFY THE PROJECT ENGINEER FOR FURTHER DIRECTION. SEPARATION DISTANCES, INSTALLATION METHODS, AND MATERIALS UTILIZED MUST MEET §290.44(e) OF THE CURRENT RULES.
11. THE CONTRACTOR SHALL NOT PLACE THE PIPE IN WATER OR WHERE IT CAN BE FLOODED WITH WATER OR SEWAGE DURING ITS STORAGE OR INSTALLATION.
12. THE CONTRACTOR SHALL DISINFECT THE NEW WATER MAINS IN ACCORDANCE WITH AWWA STANDARD C651 AND THEN FLUSH AND SAMPLE THE LINES BEFORE BEING PLACED INTO SERVICE. SAMPLES SHALL BE COLLECTED FOR MICROBIOLOGICAL ANALYSIS TO CHECK THE EFFECTIVENESS OF THE DISINFECTION PROCEDURE WHICH SHALL BE REPEATED IF CONTAMINATION PERSISTS. A MINIMUM OF ONE SAMPLE FOR EACH 1,000 FEET OF COMPLETED WATER LINE WILL BE REQUIRED OR AT THE NEXT AVAILABLE SAMPLING POINT BEYOND 1,000 FEET AS DESIGNATED BY THE ENGINEER.

TCEQ WASTWATER CONSTRUCTION NOTES:

1. THIS WASTEWATER COLLECTION SYSTEM MUST BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) EDWARDS AQUIFER RULES 30 TEXAS ADMINISTRATIVE CODE (TAC) §§213.5(c) AND 217.51 - 217.70 AND 30 TAC CHAPTER 217, SUBCHAPTER 0, AND CITY OF MARBLE FALLS STANDARD SPECIFICATIONS.
2. ALL CONTRACTORS CONDUCTING REGULATED ACTIVITIES ASSOCIATED WITH THIS PROPOSED REGULATED PROJECT MUST BE PROVIDED WITH COPIES OF THE SEWAGE COLLECTION SYSTEM PLAN AND THE TCEQ LETTER INDICATING THE SPECIFIC CONDITIONS OF ITS APPROVAL DURING THE COURSE OF THESE REGULATED ACTIVITIES, THE CONTRACTORS MUST BE REQUIRED TO KEEP ON-SITE COPIES OF THE PLAN AND THE APPROVAL LETTER.
3. ALL SEWER PIPE JOINTS MUST MEET THE REQUIREMENTS IN 30 TAC §§217.53(c) AND 217.65. GRAVITY LINES MUST HAVE A SDR 26 OR LESS. PRESSURIZED SEWER SYSTEMS MUST HAVE PIPE WITH A MINIMUM WORKING PRESSURE RATING OF 150 PSI. THE ASTM, ANSI, OR AWWA SPECIFICATION NUMBERS FOR THE PIPE(S) AND JOINTS ARE ASTM 3139 PIPE MATERIAL, THE PRESSURE CLASSES, AND THE SDR AND/OR DR DESIGNATIONS ARE POLYVINYL CHLORIDE PRESSURE CLASS 160 AND SDR-26, RESPECTIVELY.
4. IF ANY SENSITIVE FEATURES ARE DISCOVERED DURING THE WASTEWATER LINE TRENCHING ACTIVITIES, ALL REGULATED ACTIVITIES NEAR THE SENSITIVE AREA TUBE MUST BE SUSPENDED IMMEDIATELY. THE APPLICANT MUST IMMEDIATELY NOTIFY THE APPROPRIATE CITY OF MARBLE FALLS AND TCEQ OF THE FEATURE DISCOVERED. A GEOLOGISTS ASSESSMENT OF THE LOCATION AND EXTENT OF THE FEATURE DISCOVERED MUST BE REPORTED TO THAT REGIONAL OFFICE IN WRITING WITHIN TWO WORKING DAYS. THE APPLICANT MUST SUBMIT A PLAN FOR ENSURING THE STRUCTURAL INTEGRITY OF THE SEWER LINE OR FOR MODIFYING THE PROPOSED COLLECTION SYSTEM ALIGNMENT AROUND THE FEATURE. THE REGULATED ACTIVITIES NEAR THE SENSITIVE FEAT TUBE MAY NOT PROCEED UNTIL THE EXECUTIVE DIRECTOR HAS REVIEWED AND APPROVED THE METHODS PROPOSED TO PROJECT THE SENSITIVE FEATURE AND THE EDWARDS AQUIFER FROM ANY POTENTIALLY ADVERSE IMPACTS TO WATER QUALITY WHILE MAINTAINING THE STRUCTURAL INTEGRITY OF THE LINE.
5. SEWER LINES LOCATED WITHIN OR CROSSING THE 5-YEAR FLOODPLAIN OR DRAINAGE WAY WILL BE PROJECTED FROM INUNDATION AND STREAM VELOCITIES WHICH COULD CAUSE EROSION AND SCOURING OF BACKFILL. THE TRENCH MUST BE CAPPED WITH CONCRETE TO PREVENT SCOURING OF BACKFILL, OR THE SEWER LINES MUST BE ENCASED IN CONCRETE. ALL CONCRETE SHALL HAVE A MINIMUM THICKNESS OF SIX (6) INCHES.
6. BLASTING PROCEDURES FOR PROJECTION OF EXISTING SEWER LINES AND OTHER UTILITIES WILL BE IN ACCORDANCE WITH THE NATIONAL FIRE PROJECTION ASSOCIATION CRITERIA. SAND IS

NOT ALLOWED AS BEDDING OR BACKFILL IN TRENCHES THAT HAVE BEEN BLASTED. IF ANY EXISTING SEWER LINES ARE DAMAGED, THE LINES MUST BE REPAIRED AND RETESTED.

7. ALL MANHOLES CONSTRUCTED OR REHABILITATED ON THIS PROJECT MUST HAVE WATERTIGHT SIZE ON SIZE RESILIENT CONNECTORS ALLOWING FOR DIFFERENTIAL SETTLEMENT. IF MANHOLES ARE CONSTRUCTED WITHIN THE 100-YEAR FLOODPLAIN, THE COVER MUST HAVE A GASKET AND BE BOLTED TO THE RING. WHERE GASKETED MANHOLE COVERS ARE REQUIRED FOR MORE THAN THREE MANHOLES IN SEQUENCE OR FOR MORE THAN 1500 FEET, ALTERNATE MEANS OF VENTING WILL BE PROVIDED. BRICKS ARE NOT AN ACCEPTABLE CONSTRUCTION MATERIAL FOR ANY PORTION OF THE MANHOLE. THE DIAMETER OF THE MANHOLES MUST BE A MINIMUM OF 4-FEET AND THE MANHOLE FOR ENTRY MUST HAVE A MINIMUM CLEAR OPENING DIAMETER OF 30-INCHES. THESE DIMENSIONS AND OTHER DETAILS SHOWING COMPLIANCE WITH THE COMMISSIONS RULES CONCERNING MANHOLES AND SEWER LINE/ MANHOLE INVERTS DESCRIBED IN 30 TAC §217.55 CAN BE OBTAINED FROM THE CITY'S STANDARD DETAILS AND SPECIFICATIONS.
8. WHERE WATER LINES AND NEW SEWER LINES ARE INSTALLED WITH A SEPARATION DISTANCE CLOSER THAN NINE FEET (I.E., WATER LINES CROSSING WASTEWATER LINES, WATER LINES PARALLELING WASTEWATER LINES, OR WATER LINES NEXT TO MANHOLES) THE INSTALLATION MUST MEET THE REQUIREMENTS OF 30 TAC §217.53 (D) (PIPE DESIGN) AND 30 TAC §290.44 (E) (WATER DISTRIBUTION).
9. WHERE SEWER LINES DEVIATE FROM STRAIGHT ALIGNMENT AND UNIFORM GRADE ALL CURVATURE OF SEWER PIPE MUST BE ACHIEVED BY THE FOLLOWING PROCEDURE WHICH IS RECOMMENDED BY THE PIPE MANUFACTURER: CURVATURE SHALL BE ACHIEVED THROUGH PIPE DEFLECTIONS LOCATED AT THE JOINTS BUT SHALL NOT EXCEED 5-DEG IN ANY CASE. NO PIPE FLEXURE SHALL BE PERMITTED. SPECIFIC CARE MUST BE TAKEN TO ENSURE THAT THE JOINT IS PLACED IN THE CENTER OF THE TRENCH AND PROPERLY BEDDED IN ACCORDANCE WITH 30 TAC §217.54.
10. WASTEWATER COLLECTION SYSTEM LINES MUST BE CONSTRUCTED WITH STUB-OUTS FOR THE CONNECTION OF ANTICIPATED EXTENSIONS. THE LOCATION OF SUCH STUB-OUTS MUST BE MARKED ON THE GROUND SUCH THAT THEIR LOCATION CAN BE EASILY DETERMINED AT THE TIME OF CONNECTION OF THE EXTENSIONS. SUCH STUB-OUTS MUST BE MANUFACTURED WYES OR TEES THAT ARE COMPATIBLE IN SIZE AND MATERIAL WITH BOTH THE MAIN LINE AND THE EXTENSION. AT THE TIME OF ORIGINAL CONSTRUCTION, NEW STUB-OUTS MUST BE CONSTRUCTED SUFFICIENTLY TO EXTEND BEYOND THE END OF THE STREET PAVEMENT. ALL STUB-OUTS MUST BE SEALED WITH A MANUFACTURED CAP TO PREVENT LEAKAGE. EXTENSIONS THAT WERE NOT ANTICIPATED AT THE TIME OF ORIGINAL CONSTRUCTION OR THAT ARE TO BE CONNECTED TO AN EXISTING WASTEWATER LINE NOT FURNISHED WITH STUB-OUTS MUST BE CONNECTED USING A MANUFACTURED SADDLE AND IN ACCORDANCE WITH ACCEPTED PLUMBING TECHNIQUES.

11. TRENCHING, BEDDING AND BACKFILL MUST CONFORM TO 30 TAC §217.54. THE BEDDING AND BACKFILL FOR FLEXIBLE PIPE MUST COMPLY WITH THE STANDARDS OF ASTM D-2321, CLASSES IA, IB, II OR III. RIGID PIPE BEDDING MUST COMPLY WITH THE REQUIREMENTS OF ASTM C 12 (ANSI A 106.2) CLASSES A, B OR C.
12. SEWER LINES MUST BE TESTED FROM MANHOLE TO MANHOLE. WHEN A NEW SEWER LINE IS CONNECTED TO AN EXISTING STUB OR CLEAN-OUT, IT MUST BE TESTED FROM EXISTING MANHOLE TO NEW MANHOLE. IF A STUB OR CLEAN-OUT IS USED AT THE END OF THE PROPOSED SEWER LINE, NO PRIVATE SERVICE ATACHMENTS MAY BE CONNECTED BETWEEN THE LAST MANHOLE AND THE CLEANOUT UNLESS IT CAN BE CERTIFIED AS CONFORMING WITH THE PROVISIONS OF 30 TAC §213.5(c)(3)(e).
13. ALL SEWER UNES MUST BE TESTED IN ACCORDANCE WITH 30 TAC §217.57. THE ENGINEER MUST RETAIN COPIES OF ALL TEST RESULTS WHICH MUST BE MADE AVAILABLE TO THE EXECUTIVE DIRECTOR UPON REQUEST. THE ENGINEER MUST CERTIFY IN WRITING THAT ALL WASTEWATER UNES HAVE PASSED ALL REQUIRED TESTING TO THE APPROPRIATE REGIONAL OFFICE WITHIN 30 DAYS OF TEST COMPLETION AND PRIOR TO USE OF THE NEW COLLECTION SYSTEM.
14. ALL MANHOLES MUST BE TESTED TO MEET OR EXCEED THE REQUIREMENTS OF 30 TAC §217.58.
15. ALL PRIVATE SERVICE LATERALS MUST BE INSPECTED AND CERTIFIED IN ACCORDANCE WITH 30 TAC §213.5(c)(3)(1). AFTER INSTALLATION OF AND, PRIOR TO COVERING AND CONNECTING A PRIVATE SERVICE LATERAL TO AN EXISTING ORGANIZED SEWAGE COLLECTION SYSTEM, A TEXAS LICENSED PROFESSIONAL ENGINEER, TEXAS REGISTERED SANITARIAN, OR APPROPRIATE CITY INSPECTOR MUST VISUALLY INSPECT THE PRIVATE SERVICE LATERAL AND THE CONNECTION TO THE SEWAGE COLLECTION SYSTEM, AND CERTIFY THAT IT IS CONSTRUCTED IN CONFORMITY WITH THE APPLICABLE PROVISIONS OF THIS SECTION. THE OWNER OF THE COLLECTION SYSTEM MUST MAINTAIN SUCH CERTIFICATIONS FOR FIVE YEARS AND FORWARD COPIES TO THE APPROPRIATE REGIONAL OFFICE UPON REQUEST. CONNECTIONS MAY ONLY BE MADE TO AN APPROVED SEWAGE COLLECTION SYSTEM.

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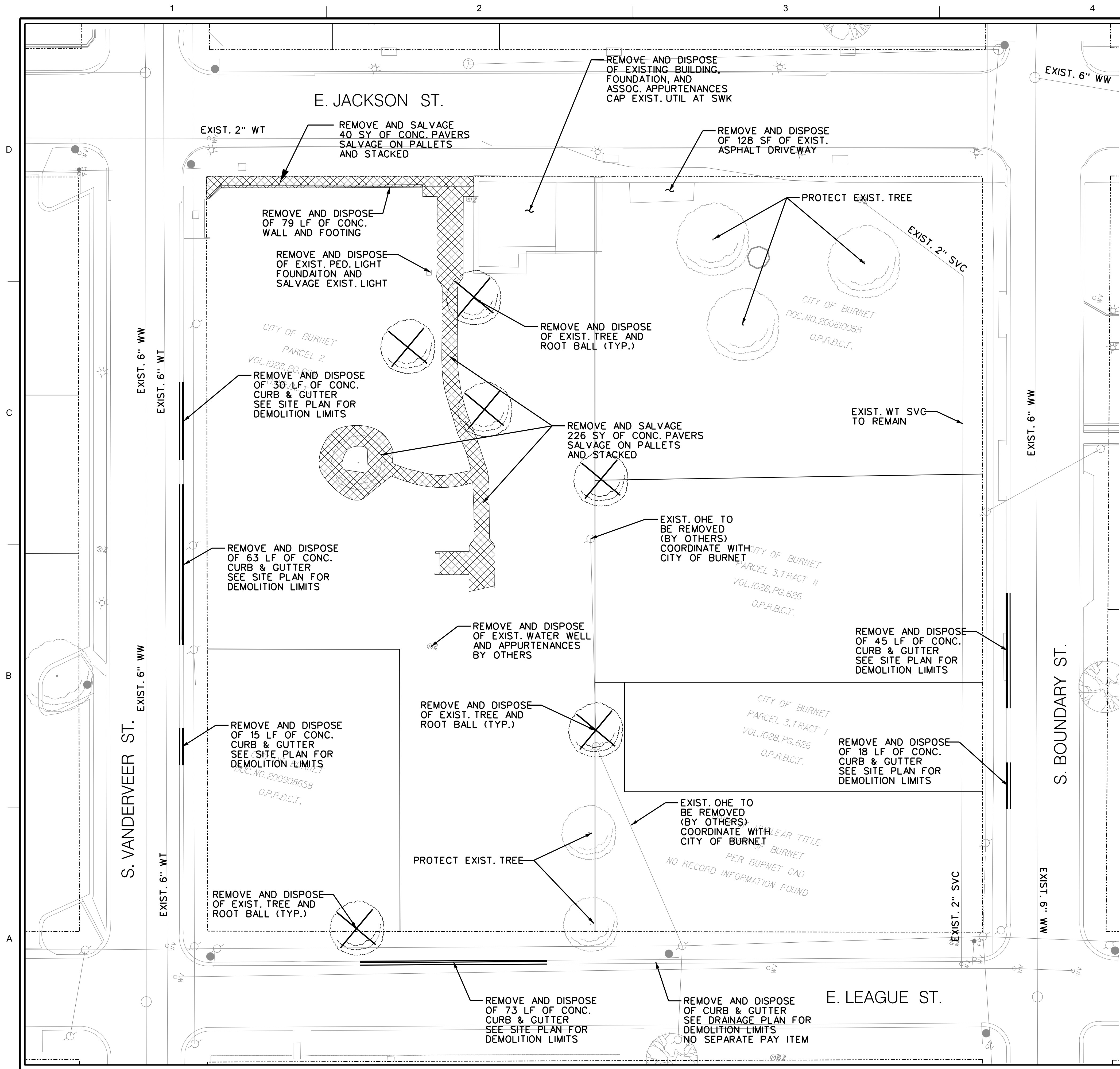


NO.	DESCRIPTION	DATE	ID
1	CHANGES IN UTILITIES AND DETAILS	9/19/23	EB



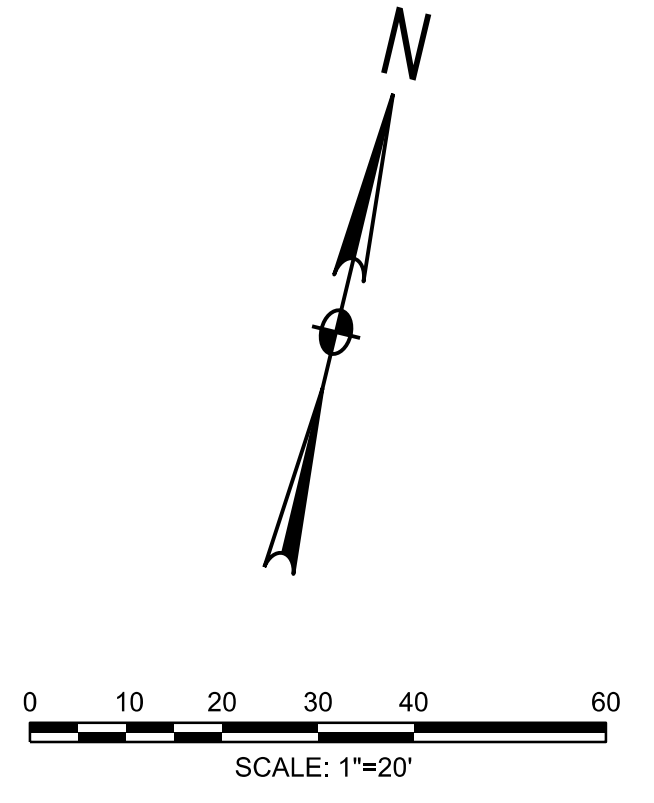
BURNET CITY HALL
GENERAL NOTES
4 of 4

SHEET NO.
C0.4



LEGEND:

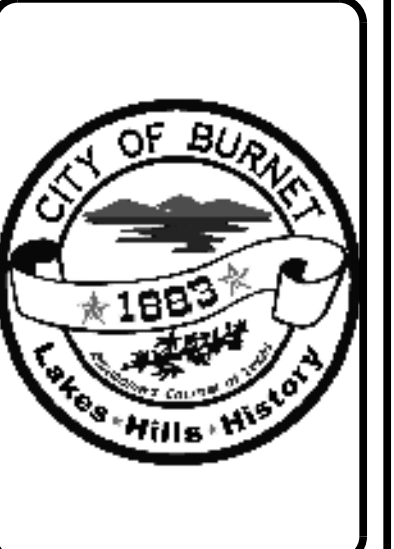
	CURB DEMOLITION
	TREE REMOVAL
	WALL DEMOLITION
	PAVEMENT DEMOLITION



GENERAL DEMOLITION NOTES:

- ALL UTILITIES LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL CALL TEXAS ONE CALL SYSTEM AND THE CITY OF BURNET AND VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES.
- CONTRACTOR SHALL NOTIFY THE CITY OF BURNET 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.
- CONSTRUCTION SHALL COMPLY WITH ALL OSHA SAFETY REGULATIONS AND ADDITIONAL MEASURES AS DIRECTED BY THE CITY OF BURNET.
- WHERE UTILITY TRENCH IS CUT, THE EXISTING ASPH PVMT SHALL BE SAWCUT, REMOVED, AND REPAVED WHEN PIPE INSTALLATION IS COMPLETE.
- THE CONTRACTOR SHALL NOT DISPOSE OF SURPLUS EXCAVATED MATERIAL FROM THE SITE WITHOUT THE APPROVAL OF THE ENGINEER AND THE CITY OF BURNET. APPROVAL SHALL INCLUDE THE DISPOSAL SITE. UPON APPROVAL OF THE ENGINEER, ALL DEBRIS AND EXCESS MATERIAL SHALL BE REMOVED FROM THE SITE IN A MANNER NOT TO DAMAGE THE SITE.
- ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE RESTORED AND GRADED TO DRAIN. SLOPES SHALL BE STABILIZED TO PREVENT EROSION. ALL SITE STABILIZATION SHALL BE PERFORMED PER SPECIFICATIONS, THESE DRAWINGS, AND AS DIRECTED BY THE ENGINEER.
- THE INFORMATION CONTAINED ON THESE DRAWINGS IN REGARDS TO EXISTING UTILITIES, TOPOGRAPHY, CONTOURS, OR SUBSURFACE CONDITIONS IS FURNISHED SOLELY AS THE INFORMATION AVAILABLE AT THIS TIME. ITS ACCURACY IS NOT GUARANTEED AND IT'S USE IN NO WAY RELIEVES THE CONTRACTOR OF ANY RESPONSIBILITY FOR LOSSES DUE TO ANY INACCURACIES.
- THE CONTRACTOR WILL BE RESPONSIBLE FOR OBTAINING ANY APPLICABLE WORK ORDERS FOR PROPOSED PUBLIC IMPROVEMENTS FROM THE CITY OF BURNET PRIOR TO STARTING CONSTRUCTION.
- PRIOR TO BEGINNING ANY CONSTRUCTION, THE CONTRACTOR SHALL CONVENE A PRE-CONSTRUCTION CONFERENCE BETWEEN THE OWNER, CONTRACTOR, THE ENGINEER OF RECORD, OTHER UTILITY COMPANIES, ANY AFFECTED PARTIES, AND ANY OTHER ENTITY THE OWNER OR ENGINEER OF RECORD MAY REQUIRE.
- NO TREES SHALL BE REMOVED UNLESS SO NOTED ON THE PLANS OR UPON THE SPECIFIC APPROVAL OF THE OWNER WHERE TREES, PLANTS, SHRUBBERY, ETC., ARE ADJACENT TO THE LINE OF THE WORK AND ARE NOT TO BE REMOVED OR REMOVED AND REPLACED, THE CONTRACTOR SHALL PROTECT SUCH TREES, PLANTS, SHRUBBERY, ETC. BY SUBSTANTIAL WOODEN BOXES AND GUARDS

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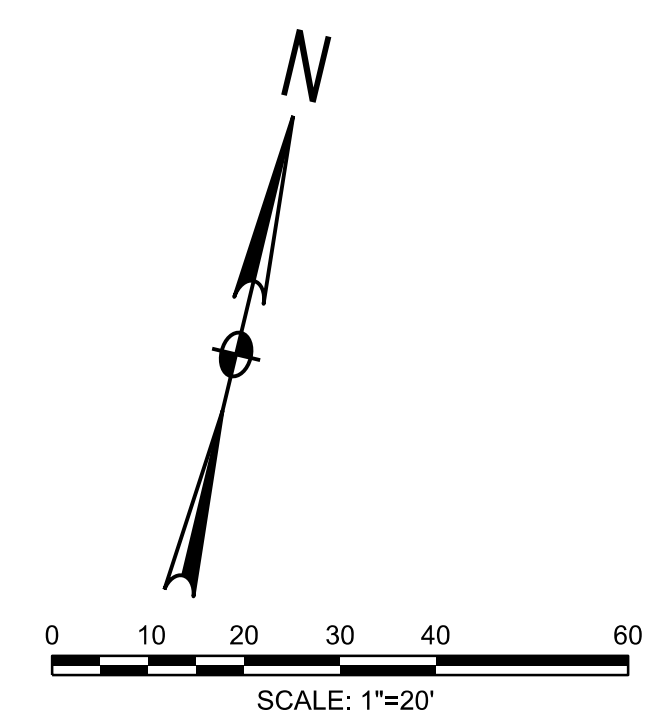
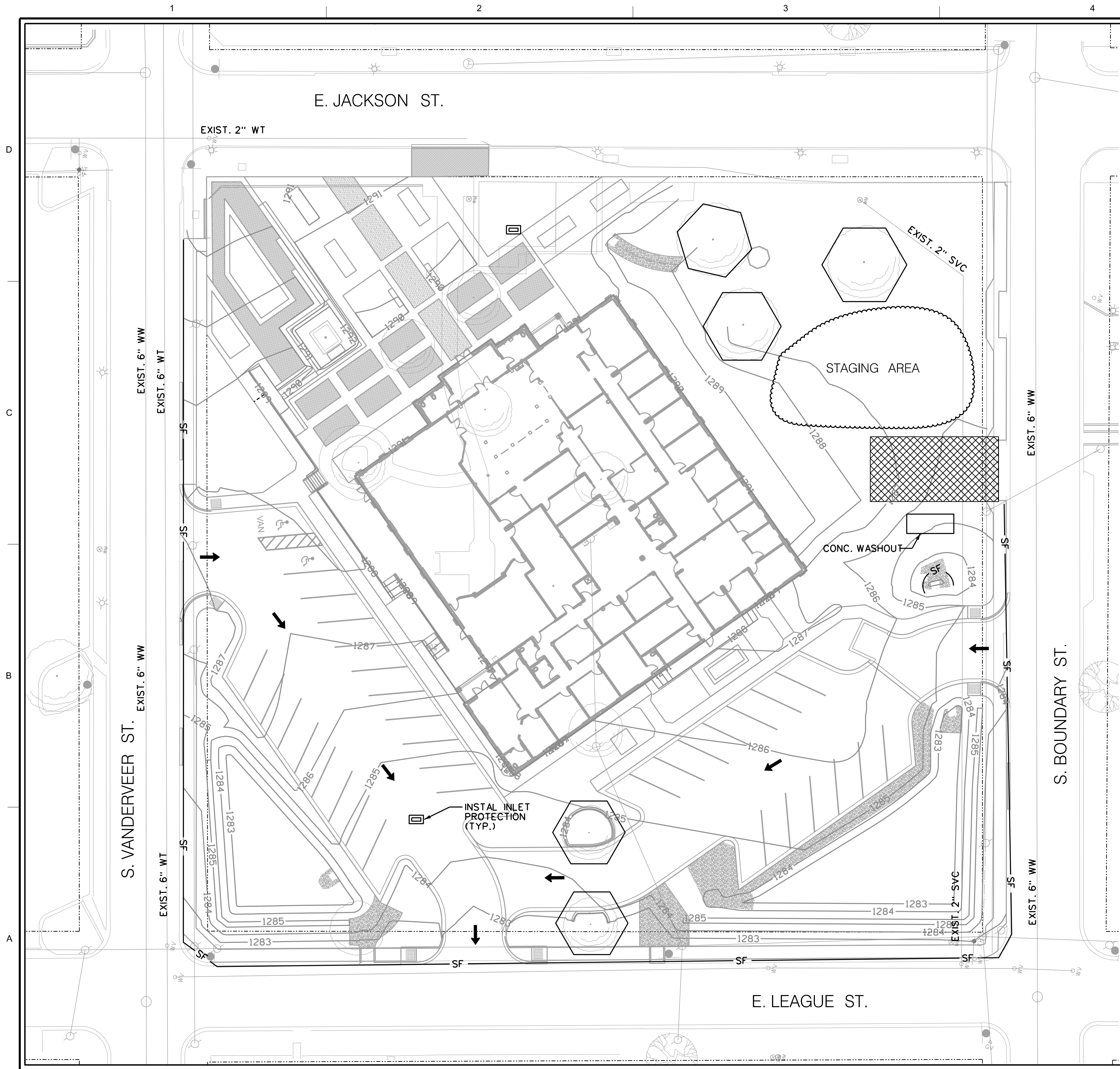


NO.	DESCRIPTION	DATE	ID
9/19/23	CHANGES IN UTILITIES AND DETAILS		



BURNET CITY HALL
DEMOLITION PLAN

SHEET NO.
C1.0



LEGEND:

— SF —	SILT FENCE
—	LIMITS OF CONSTRUCTION
XXXX	CONST. INGRESS/EGRESS
○	TREE PROTECTION
~~~~~	CONST. STAGING
□	INLET PROTECTION

**EROSION CONTROL NOTES:**

1. EROSION CONTROL MEASURES, SITE WORK, AND RESTORATION WORK SHALL BE IN ACCORDANCE WITH THE CITY OF BURNET NON-POINT SOURCE POLLUTION CONTROL ORDINANCE.
2. ALL TEMPORARY EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL FINAL INSPECTION AND APPROVAL OF THE PROJECT BY THE CITY OF BURNET. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN ALL TEMPORARY EROSION CONTROL STRUCTURES AND TO REMOVE TEMPORARY EROSION CONTROL STRUCTURES.
3. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POSTS MUST BE EMBEDDED A MIN. OF ONE FOOT. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CAN NOT BE TRENCHED IN (E.G. PAVEMENT) WEIGHT FABRIC FLAP WITH WASHED GRAVEL ON UPHILL SIDE TO PREVENT FLOW UNDER FENCE.
4. THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6" WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
5. SILT FENCE SHALL BE SECURELY FASTENED TO EACH STEEL SUPPORT POSTS OR TO WOVEN WIRE, WHICH IN TURN SHALL BE ATTACHED TO THE STEEL FENCE POSTS.
6. INSPECTION SHALL BE MADE WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE AT NO ADDITIONAL COST TO THE CITY PROMPTLY AS NEEDED BY CONTRACTOR.
7. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
8. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6-INCHES. THE SILT SHALL BE DISPOSED OF IN AN APPROVED SITE AND IN SUCH A MANNER AS NOT TO CONTRIBUTE TO ADDITIONAL SILTATION.

CITY OF BURNET  
 1001 BUCHANAN DR. SUITE 04  
 BURNET, TX 78611  
 PH: (512) 756-6093



CHANGES IN UTILITIES AND DETAILS	NO.	DESCRIPTION	DATE	ID




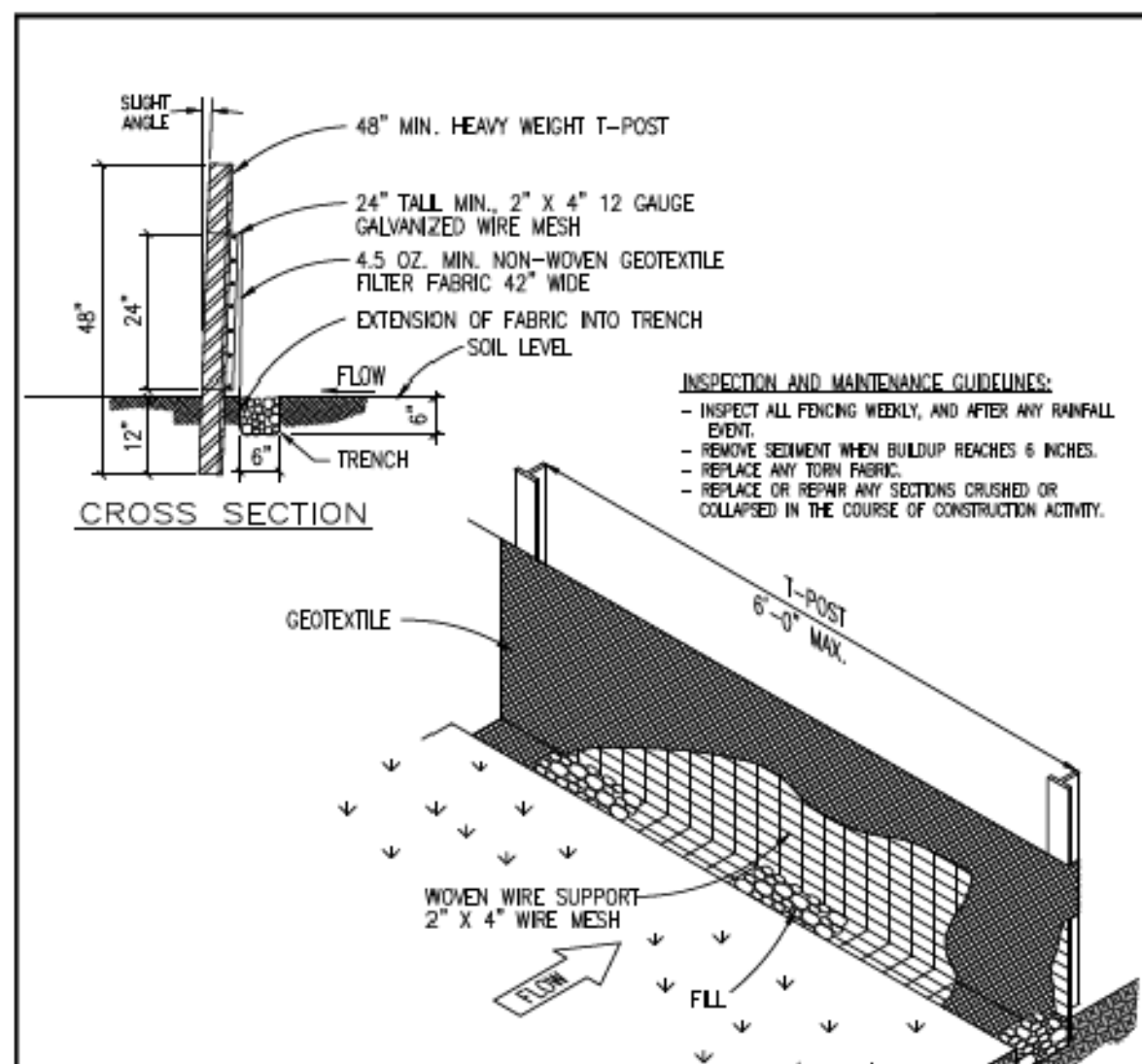
BURNET CITY HALL  
**EROSION CONTROL PLAN**

SHEET NO.  
**C2.1**

NOTE: THIS SECTION IS INTENDED TO ASSIST THOSE PERSONS PREPARING WATER POLLUTION ABATEMENT PLANS (WPAP) OR STORM WATER POLLUTION PREVENTION PLANS (SWPPP) THAT COMPLY WITH FEDERAL, STATE AND/OR LOCAL STORM WATER REGULATIONS.

- THE CONTRACTOR TO INSTALL AND MAINTAIN EROSION/SEDIMENTATION CONTROLS AND TREE/NATURAL AREA PROTECTIVE FENCING PRIOR TO ANY SITE PREPARATION WORK (CLEARING, GRUBBING, GRADING, OR EXCAVATION). CONTRACTOR TO REMOVE EROSION/SEDIMENTATION CONTROLS AT THE COMPLETION OF PROJECT AND GRASS RESTORATION.
- ALL PROJECTS WITHIN THE EROSION ZONE OF THE OWNER'S ADJUTANT SHALL SUBMIT A BEST MANAGEMENT PRACTICES AND WATER POLLUTION AND ABATEMENT PLAN TO THE THRCO FOR APPROVAL PRIOR TO ANY CONSTRUCTION.
- THE PLACEMENT OF EROSION/SEDIMENTATION CONTROLS TO BE IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN AND WATER POLLUTION ABATEMENT PLAN. DEVIATIONS FROM THE APPROVED PLAN MUST BE SUBMITTED TO AND APPROVED BY THE OWNER'S REPRESENTATIVE.
- ALL PLANTING SHALL BE DONE BETWEEN MAY 1 AND SEPTEMBER 15 EXCEPT AS SPECIFICALLY AUTHORIZED IN WRITING. IF PLANTING IS AUTHORIZED TO BE DONE OUTSIDE THE DATES SPECIFIED, THE SEED SHALL BE PLANTED WITH THE ADDITION OF WINTER RESCUE (KENTUCKY 31) AT A RATE OF 100#/ACRE. GRASS SHALL BE COMMON BERMUDA GRASS, HULLED, MINIMUM 100% PURE LIVE SEED. ALL GRASS SEED SHALL BE FREE FROM NOXIOUS WEEDS. GRAVE 2" RESCUT CRISP, SEEDLING AND TREATED WITH APPROPRIATE FUNGICIDE AT TIME OF SOWING. SEED SHALL BE FURNISHED IN SEALED, STANDARD CONTAINERS WITH SEALER'S GUARANTEED ANALYSIS.
- ALL DISTURBED AREAS TO BE RESTORED AS NOTED IN THE WATER POLLUTION ABATEMENT PLAN.
- THE PLANTED AREA TO BE IRRIGATED OR SPRINKLED IN A MANNER THAT WILL NOT ERODE THE TOPSOIL, BUT WILL SUFFICIENTLY SOAK THE SOIL TO A DEPTH OF FOUR (4) INCHES. THE IRRIGATION TO OCCUR AT 10-DAY INTERVALS DURING THE FIRST TWO MONTHS TO INSURE GERMINATION AND ESTABLISHMENT OF THE GRASS. RAINFALL OCCURRENCES OF 1/2 INCH OR GREATER TO POSTPONE THE WATERING SCHEDULE ONE WEEK.
- RESTORATION TO BE ACCEPTABLE WHEN THE GRASS HAS GROWN AT LEAST 1-1/2 INCHES HIGH WITH 90% COVERAGE PROVIDED NO GRASS SPOTS LARGER THAN 25 SQUARE FEET EXIST.
- A MINIMUM OF FOUR (4) INCHES OF TOPSOIL TO BE PLACED IN ALL AREAS DISTURBED BY CONSTRUCTION.
- THE CONTRACTOR TO HYDROMULCH OR SOD (AS SHOWN ON PLANS) ALL EXPOSED CUTS AND FILLS UPON COMPLETION OF CONSTRUCTION.
- EROSION AND SEDIMENTATION CONTROLS TO BE INSTALLED OR MAINTAINED IN A MANNER WHICH DOES NOT RESULT IN SOIL BUILDUP WITHIN TREE DRIFLINE.
- TO AVOID SOIL CONSTRUCTION CONTRACTOR SHALL NOT ALLOW VEHICULAR TRAFFIC, PARKING, OR STORAGE OF EQUIPMENT OR MATERIALS IN THE TREE DRIFLINE AREAS.
- WHERE A FENCE IS CLOSER THAN FOUR (4) FEET TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF EIGHT (8) FEET OR TO THE LIMITS OF LOWER BRANCHING IN ADDITION TO THE FENCING. TREES TO BE REMOVED IN A MANNER WHICH DOES NOT IMPACT TREES TO BE PRESERVED.
- ANY ROOT EXPOSED BY CONSTRUCTION ACTIVITY TO BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOPSOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN TWO (2) DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
- CONTRACTOR TO PRUNE VEGETATION TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC, AND EQUIPMENT BEFORE DAMAGE OCCURS (SIPPING OF BRANCHES, ETC.). ALL FINISHED PRUNING TO BE DONE ACCORDING TO RECOGNIZED APPROVED STANDARDS OF THE INDUSTRY (DEPENDENCE ON THE NATIONAL ARBORIST ASSOCIATION PRUNING STANDARDS FOR SHADE TREES).
- THE CONTRACTOR IS TO INSPECT THE CONTROLS AT WEEKLY INTERVALS AND AFTER EVERY RAINFALL EXCEEDING 1/4 INCH TO VERIFY THAT THEY HAVE NOT BEEN SIGNIFICANTLY DISTURBED. ANY ACCUMULATED SEDIMENT AFTER A SIGNIFICANT RAINFALL TO BE REMOVED AND PLACED IN THE OWNER DESIGNATED SOIL DISPOSAL SITE. THE CONTRACTOR TO CONDUCT PERIODIC INSPECTIONS OF ALL EROSION/SEDIMENTATION CONTROLS AND TO MAKE ANY REPAIRS OR MODIFICATIONS NECESSARY TO ASSURE CONTINUED EFFECTIVE OPERATION OF EACH DEVICE.
- WHERE THERE IS TO BE AN APPROVED GRADE CHANGE, IMPERMEABLE PAVING SURFACE, TREE WELLS OR OTHER SUCH SITE DEVELOPMENT IMMEDIATELY ADJACENT TO A PROTECTED TREE, ERECT THE FENCE APPROXIMATELY TWO TO FOUR FEET (2'-4') BEHIND THE AREA IN QUESTION.
- NO ABOVE GROUND BELOW GROUND TEMPORARY FUEL STORAGE PROCEDURES TO BE STORED ON THE PROJECT SITE.
- IF EROSION AND SEDIMENTATION CONTROL SYSTEMS ARE EXISTING FROM PRIOR CONTRACTS, OWNER'S REPRESENTATIVE AND THE CONTRACTOR TO EXAMINE THE EXISTING EROSION AND SEDIMENTATION CONTROL SYSTEMS FOR DAMAGE PRIOR TO CONSTRUCTION. ANY DAMAGE TO EXISTING EROSION AND SEDIMENTATION CONTROLS NOTED TO BE REPAIRED AT OWNER'S EXPENSE.
- INTENTIONAL RELEASE OF VEHICLE OR EQUIPMENT FLUIDS ONTO THE GROUND IS NOT ALLOWED. CONTAMINATED SOIL RESULTING FROM ACCIDENTAL SPILL TO BE REMOVED AND DEPOSED OF PROPERLY.

	<b>CITY OF BURNET</b> DEPARTMENT OF PUBLIC WORKS	<b>EROSION/SEDIMENTATION AND TREE PROTECTION NOTES</b>
APPROVED BY: STAFF	DATE: 08/2020	The Architect/Engineer assumes responsibility for appropriate use of this standard. DETAIL NUMBER: EC-02



**CROSS SECTION**


Labels: SLOPE ANGLE, 48" MIN. HEAVY WEIGHT T-POST, 24" TALL MIN. 2" X 4" 12 GAUGE GALVANIZED WIRE MESH, 4.5 OZ. MIN. NON-WOVEN GEOTEXTILE FILTER FABRIC 42" WIDE, EXTENSION OF FABRIC INTO TRENCH, SOIL LEVEL, TRENCH, FLOW, T-POST 6'-0" MAX., GEOTEXTILE, WOVEN WIRE SUPPORT 2" X 4" WIRE MESH, FILL.

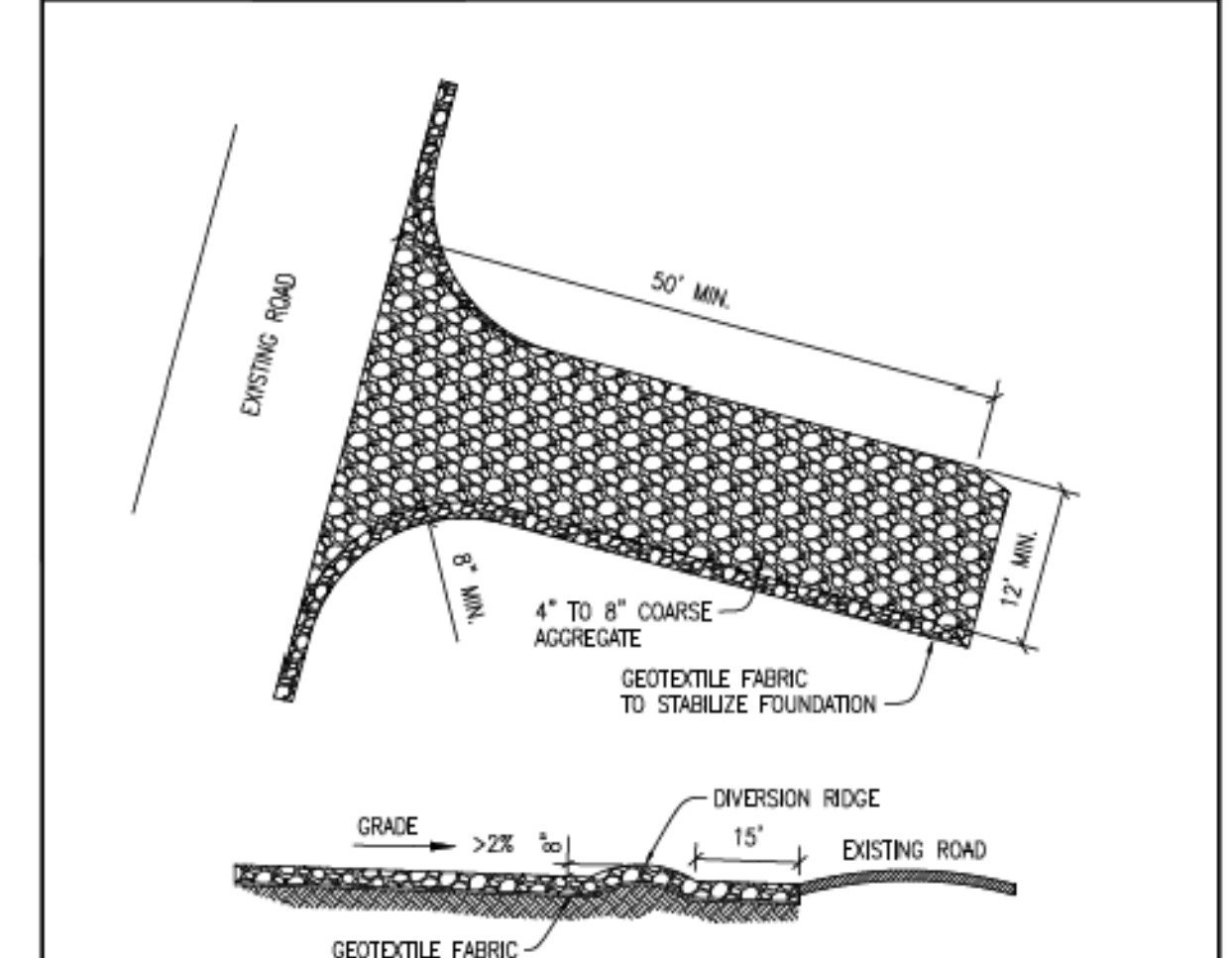
**INSTALLATION:**

- LAYOUT THE SILT FENCE FOLLOWING AS CLOSELY AS POSSIBLE TO THE CONTOUR.
- CLEAR THE GROUND OF DEBRIS, ROCKS, PLANTS (INCLUDING GRASSES TALLER THAN 2") TO PROVIDE A SMOOTH FLOW APPROACH SURFACE. EXCAVATE 6" DEEP X 6" WIDE TRENCH ON UPSTREAM SIDE OF FACE PER PLANS.
- DRIVE THE HEAVY DUTY T-POST AT LEAST 12 INCHES INTO THE GROUND AND AT A SLIGHT ANGLE TOWARDS THE FLOW.
- ATTACH THE 2" X 4" 12 GAUGE WELDED WIRE MESH TO THE T-POST WITH 1 1/2 GAUGE GALVANIZED T-POST CLIPS. THE TOP OF THE WIRE TO BE 24" ABOVE GROUND LEVEL. THE WELDED WIRE MESH TO BE OVERLAPPED 6" AND TIED AT LEAST 6 TIMES WITH HOG RINGS.
- THE SILT FENCE TO BE INSTALLED WITH A SKIRT A MINIMUM OF 6" WIDE PLACED ON THE UPHILL SIDE OF THE FENCE INSIDE EXCAVATED TRENCH. THE FABRIC TO OVERLAP THE TOP OF THE WIRE BY 1".
- ANCHOR THE SILT FENCE BY BACKFILLING WITH EXCAVATED DIRT AND ROCKS (NOT LARGER THAN 2").
- GEOTEXTILE SPICES SHOULD BE A MINIMUM OF 18" WIDE ATTACHED IN AT LEAST 6 PLACES. SPICES IN CONCENTRATED FLOW AREAS WILL NOT BE ACCEPTED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDIE FLOW OR DRAINAGE.

**INSPECTION AND MAINTENANCE GUIDELINES:**

- INSPECT ALL FENCING WEEKLY, AND AFTER ANY RAINFALL EVENT.
- REMOVE SEDIMENT WHEN BUILDUP REACHES 6 INCHES.
- REPLACE ANY TORN FABRIC.
- REPLACE OR REPAIR ANY SECTIONS CRUSHED OR COLLAPSED IN THE COURSE OF CONSTRUCTION ACTIVITY.

	<b>CITY OF BURNET</b> DEPARTMENT OF PUBLIC WORKS	<b>SILT FENCE</b>
APPROVED BY: STAFF	DATE: 08/2020	The Architect/Engineer assumes responsibility for appropriate use of this standard. DETAIL NUMBER: EC-03



**STABILIZED CONSTRUCTION ENTRANCE**


Labels: EXISTING ROAD, 50' MIN., 12' MIN., 4" TO 8" COARSE AGGREGATE, GEOTEXTILE FABRIC TO STABILIZE FOUNDATION, DIVERSION RIDGE, EXISTING ROAD, GRADE >2% @ 15', GEOTEXTILE FABRIC AS APPROVED BY THE CITY.

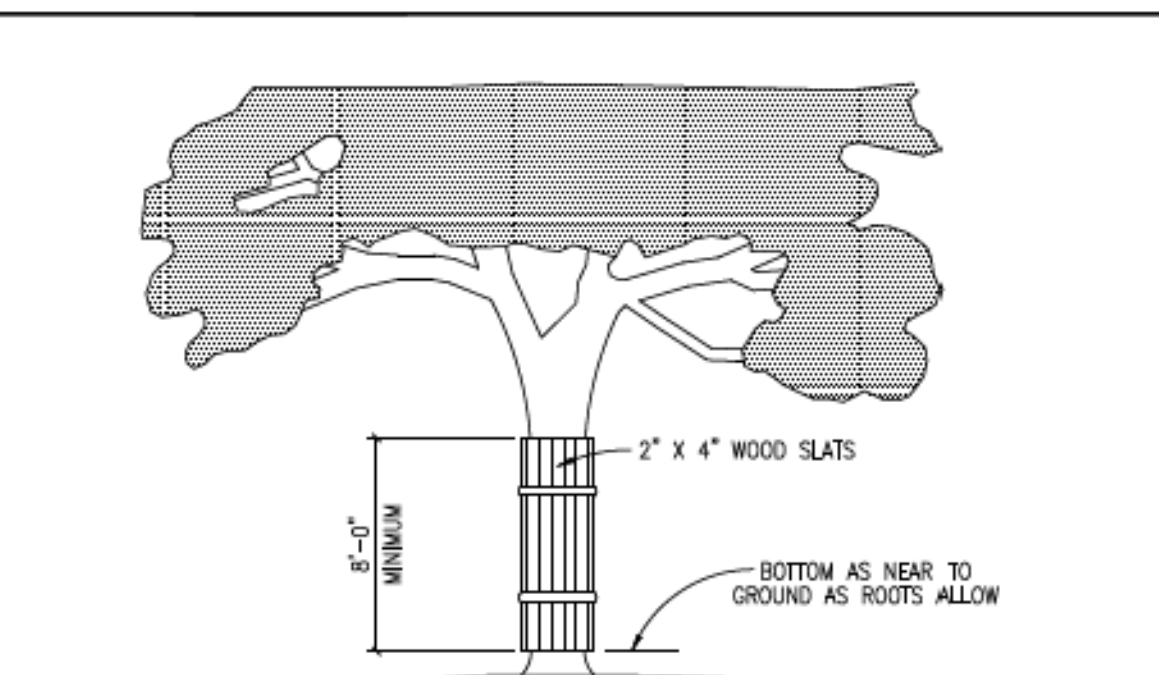
**INSTALLATION:**

- CLEAR THE AREA OF DEBRIS, ROCKS OR PLANTS THAT WILL INTERFERE WITH INSTALLATION.
- GRADE THE AREA FOR THE ENTRANCE TO FLOW BACK ON TO THE CONSTRUCTION SITE, RUNOFF FROM THE STABILIZED CONSTRUCTION.
- PLACE GEOTEXTILE FABRIC AS APPROVED BY THE CITY.
- PLACE ROCK AS APPROVED BY THE CITY.

**INSPECTIONS AND MAINTENANCE GUIDELINES:**

- THE ENTRANCE SHOULD BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.
- ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ON TO PUBLIC RIGHTS-OF-WAY SHOULD BE REMOVED IMMEDIATELY BY CONTRACTOR.
- WHEN NECESSARY, WHEELS SHOULD BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHTS-OF-WAY.
- WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.
- SILT SEDIMENT SHOULD BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATER COURSE BY USING APPROVED METHODS.

	<b>CITY OF BURNET</b> DEPARTMENT OF PUBLIC WORKS	<b>STABILIZED CONSTRUCTION ENTRANCE</b>
APPROVED BY: STAFF	DATE: 08/2020	The Architect/Engineer assumes responsibility for appropriate use of this standard. DETAIL NUMBER: EC-07




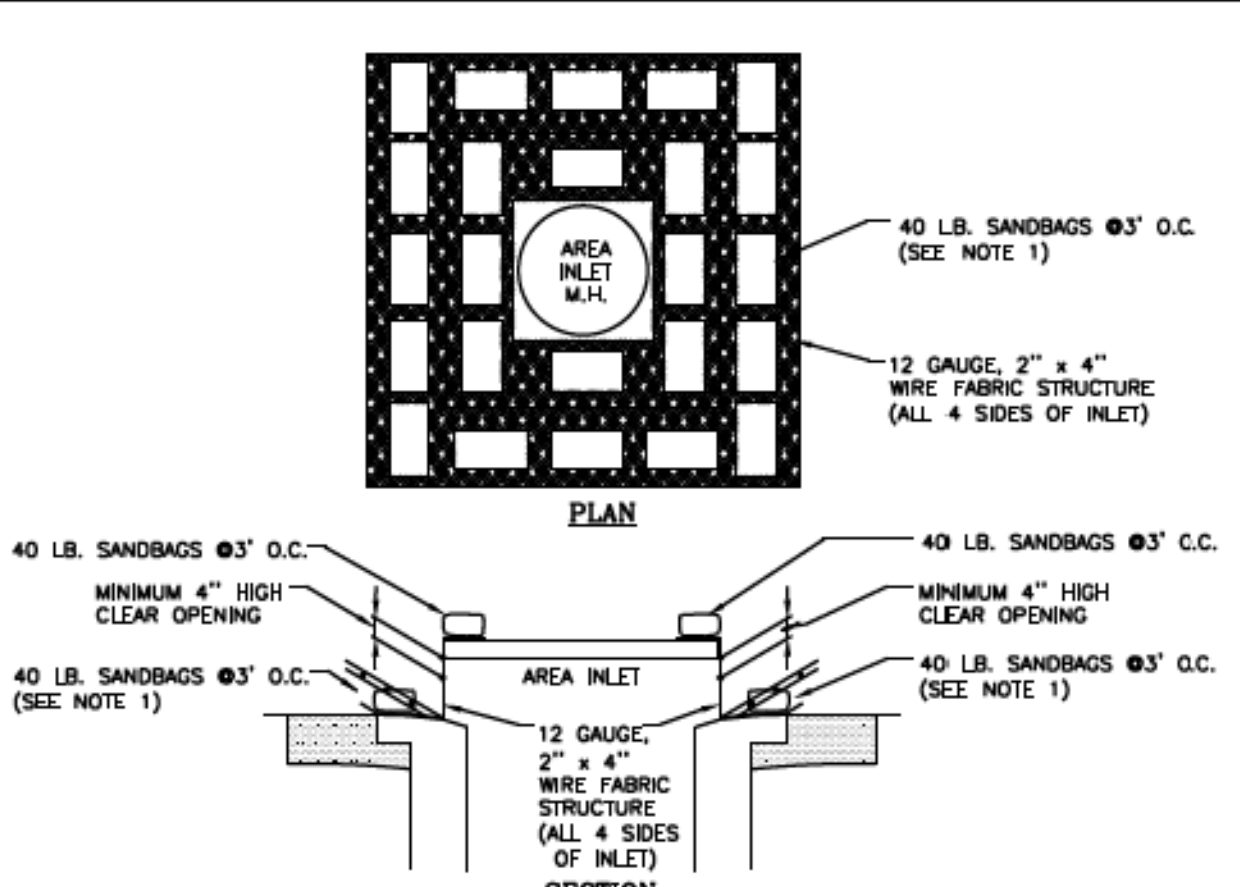
**TREE PROTECTION-WOOD SLATS**

Labels: 2" X 4" WOOD SLATS, 8'-0" MINIMUM, BOTTOM AS NEAR TO GROUND AS ROOTS ALLOW.

**NOTES:**

- WHERE ANY EXCEPTIONS RESULT IN A FENCE BEING CLOSER THAN FOUR FEET (4'-0") TO A TREE TRUNK, PROTECT THE TRUNK WITH STRAPPED-ON PLANKING TO A HEIGHT OF EIGHT FEET (8'-0"), OR TO THE LIMITS OF LOWER BRANCHING IN ADDITION TO THE REDUCED FENCING PROVIDED.
- ANY ROOTS EXPOSED BY CONSTRUCTION ACTIVITY SHALL BE PRUNED FLUSH WITH THE SOIL. BACKFILL ROOT AREAS WITH GOOD QUALITY TOP SOIL AS SOON AS POSSIBLE. IF EXPOSED ROOT AREAS ARE NOT BACKFILLED WITHIN TWO (2) DAYS, COVER THEM WITH ORGANIC MATERIAL IN A MANNER WHICH REDUCES SOIL TEMPERATURE, AND MINIMIZES WATER LOSS DUE TO EVAPORATION.
- PRIOR EXCAVATION OR GRADE CUTTING WITHIN TREE DRIFLINE, MAKE A CLEAN CUT BETWEEN THE DISTURBED AND UNDISTURBED ROOT ZONES WITH A ROCK SAW OR SIMILAR EQUIPMENT, TO MINIMIZE DAMAGE TO REMAINING ROOTS.
- TREES MOST HEAVILY IMPACTED BY CONSTRUCTION ACTIVITIES SHOULD BE WATERED DEEPLY ONCE A WEEK DURING PERIODS OF HOT, DRY WEATHER. TREE CROWNS SHOULD BE SPRAYED WITH WATER PERIODICALLY TO REDUCE DUST ACCUMULATION ON THE LEAVES.
- ANY TRENCHING REQUIRED FOR THE INSTALLATION OF LANDSCAPE IRRIGATION SHALL BE PLACED AS FAR FROM EXISTING TREE TRUNKS AS POSSIBLE.
- NO LANDSCAPE TOPSOIL DRESSING GREATER THE FOUR INCHES (4") SHALL BE PERMITTED WITHIN THE DRIFLINE OF A TREE. NO SOIL IS PERMITTED ON THE ROOT FLARE OF ANY TREE.
- PRUNING TO PROVIDE CLEARANCE FOR STRUCTURES, VEHICULAR TRAFFIC AND EQUIPMENT SHALL TAKE PLACE BEFORE CONSTRUCTION BEGINS.

	<b>CITY OF BURNET</b> DEPARTMENT OF PUBLIC WORKS	<b>TREE PROTECTION-WOOD SLATS</b>
APPROVED BY: STAFF	DATE: 08/2020	The Architect/Engineer assumes responsibility for appropriate use of this standard. DETAIL NUMBER: EC-11



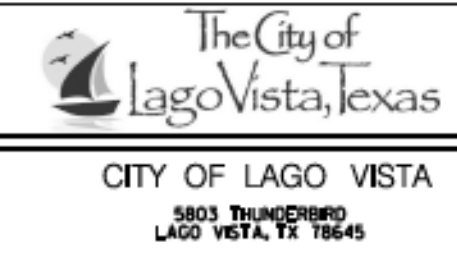

**AREA/GRATE INLET PROTECTION:**

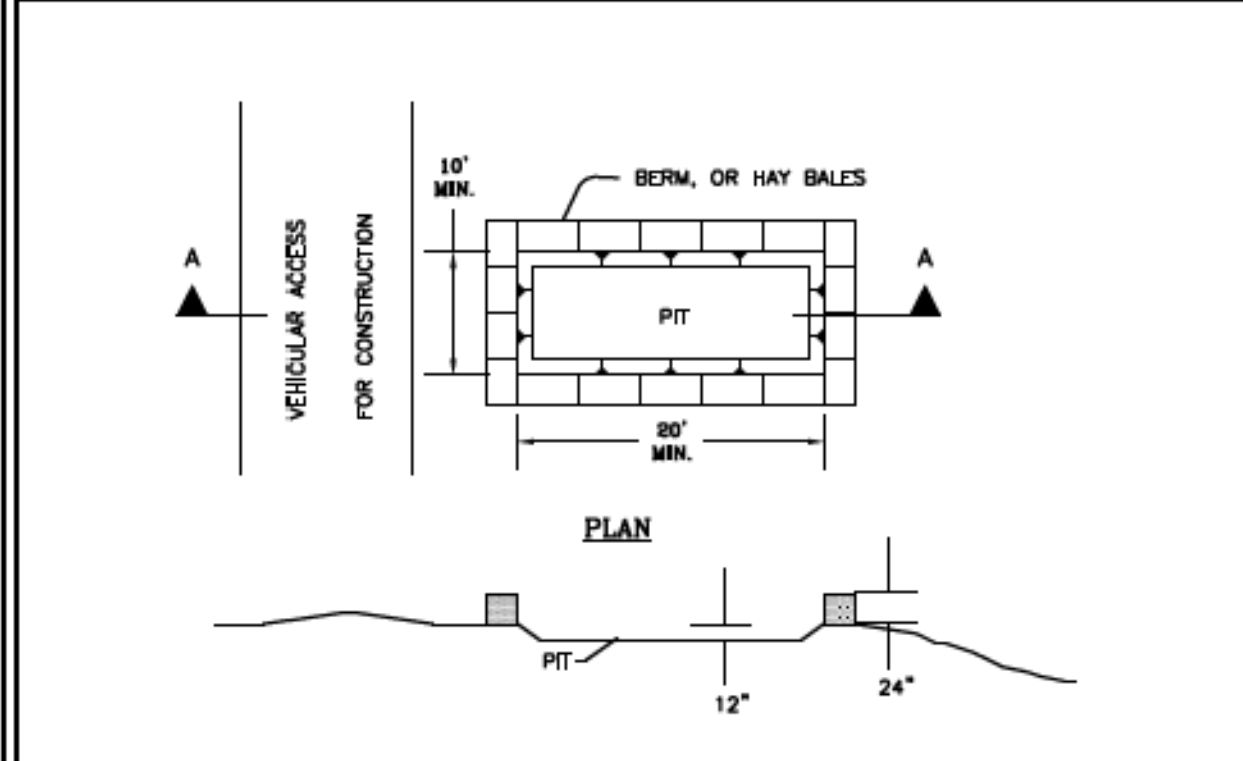
Labels: AREA INLET M.H., 40 LB. SANDBAGS @3' O.C. (SEE NOTE 1), 12 GAUGE, 2" X 4" WIRE FABRIC STRUCTURE (ALL 4 SIDES OF INLET), MINIMUM 4" HIGH CLEAR OPENING.

**AREA/GRATE INLET PROTECTION:**

- WHERE MINIMUM CLEARANCES CAUSE TRAFFIC TO DRIVE IN THE GUTTER, THE CONTRACTOR MAY SUBSTITUTE A 1"x4" BOARD SECURED WITH CONCRETE NAILS 3" O.C. NAILED INTO THE GUTTER IN LIEU OF SANDBAGS TO HOLD THE FILTER DIKE IN PLACE. UPON REMOVAL, CLEAN ANY DIRT/DEBRIS FROM NAILING LOCATIONS, APPLY CHEMICAL SANDING AGENT AND APPLY NON-SHRINK GROUT FLUSH WITH SURFACE OF GUTTER.
- A SECTION OF FILTER FABRIC SHALL BE REMOVED AS SHOWN ON THIS DETAIL OR AS DIRECTED BY THE ENGINEER OR DESIGNATED REPRESENTATIVE. FABRIC MUST BE SECURED TO WIRE BACKING WITH CLIPS OR HOG RINGS AT THIS LOCATION.
- DAILY INSPECTION SHALL BE MADE BY THE CONTRACTOR AND SILT ACCUMULATION MUST BE REMOVED WHEN DEPTH REACHES 2".
- CONTRACTOR SHALL MONITOR THE PERFORMANCE OF INLET PROTECTION DURING EACH RAINFALL EVENT AND IMMEDIATELY REMOVE THE INLET PROTECTIONS IF THE STORM-WATER BEGINS TO OVERTOP THE CURB.
- INLET PROTECTIONS SHALL BE REMOVED AS SOON AS THE SOURCE OF SEDIMENT IS STABILIZED.

SCALE: NOT TO SCALE



	These documents were prepared by, or under the supervision of: ERIC BELAJ 107148 February 3, 2019 Engineer's Name PER Date	SECTION: <b>EROSION CONTROL</b> DETAIL NO. <b>EC-8</b> TITLE: AREA INLET PROTECTION
<b>CITY OF LAGO VISTA</b> 3803 THUNDERBOLT LAGO VISTA, TX 78645 PH: (512) 267-1155		




**CONCRETE WASHOUT NOTES:**

- DETAIL ILLUSTRATES MINIMUM DIMENSIONS. PIT CAN BE INCREASED IN SIZE DEPENDING ON EXPECTED FREQUENCY OF USE.
- IF HAY BALES ARE USED, THEY SHALL BE PLACED IN ACCORDANCE WITH DETAILS SHOWN ON EXHIBIT FOR HAY BALES.
- WASHOUT PIT SHALL BE LOCATED IN AN AREA EASILY ACCESSIBLE TO CONSTRUCTION TRAFFIC.
- WASHOUT PIT SHALL NOT BE LOCATED IN AREAS SUBJECT TO INUNDATION FROM STORM WATER RUNOFF.


SCALE: NOT TO SCALE

	These documents were prepared by, or under the supervision of: ERIC BELAJ 107148 February 3, 2019 Engineer's Name PER Date	SECTION: <b>EROSION CONTROL</b> DETAIL NO. <b>EC-11</b> TITLE: CONCRETE WASHOUT
<b>CITY OF LAGO VISTA</b> 3803 THUNDERBOLT LAGO VISTA, TX 78645 PH: (512) 267-1155		

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1001 BUCHANAN DR. SUITE 04  
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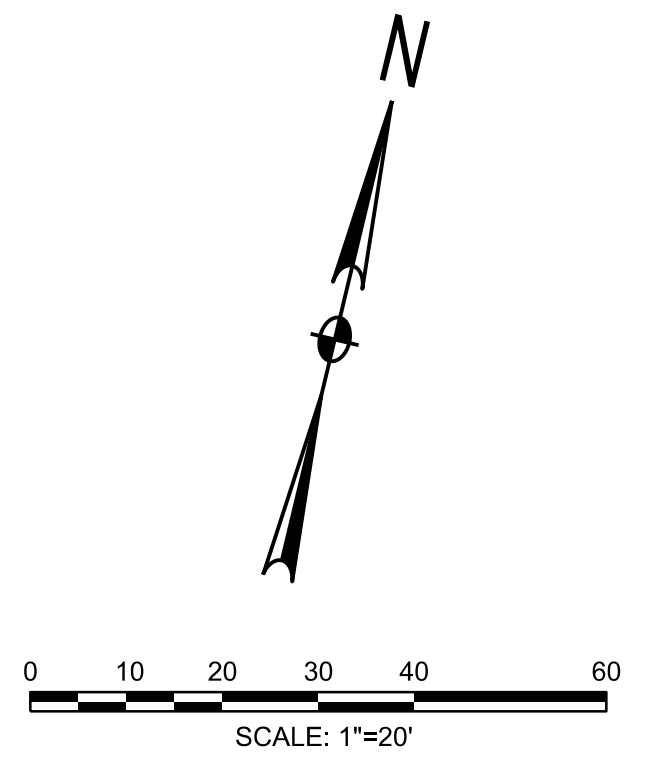
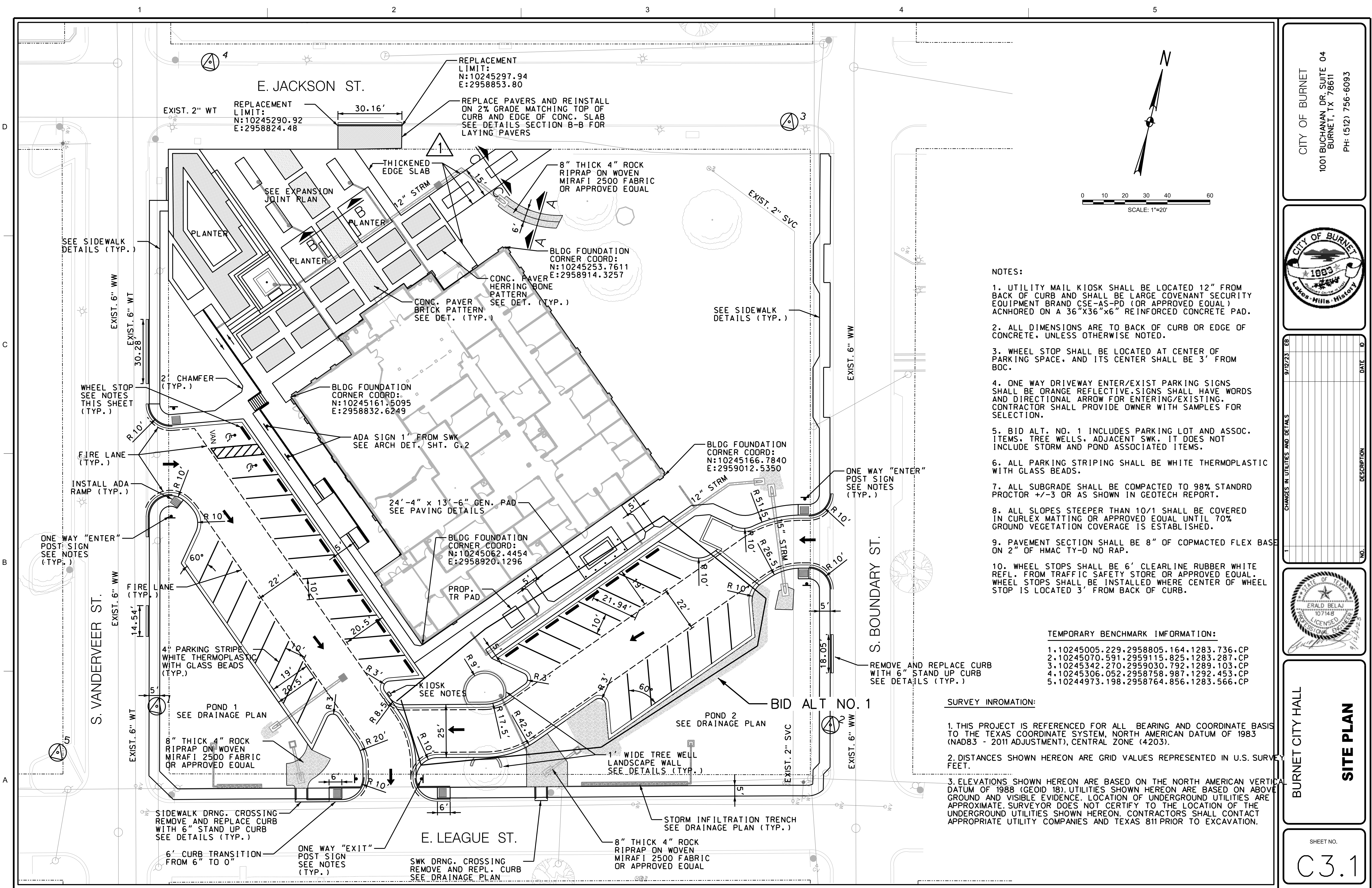
9/19/23  
CHANGES IN UTILITIES AND DETAILS  
NO. DESCRIPTION DATE ID



BURNET CITY HALL  
**EROSION CONTROL DETAILS**

SHEET NO.  
**C2.2**

PID: CIPSP-2022B



**NOTES:**

1. UTILITY MAIL KIOSK SHALL BE LOCATED 12" FROM BACK OF CURB AND SHALL BE LARGE COVENANT SECURITY EQUIPMENT BRAND CSE-AS-PD (OR APPROVED EQUAL) ANCHORED ON A 36"x36"x6" REINFORCED CONCRETE PAD.
2. ALL DIMENSIONS ARE TO BACK OF CURB OR EDGE OF CONCRETE, UNLESS OTHERWISE NOTED.
3. WHEEL STOP SHALL BE LOCATED AT CENTER OF PARKING SPACE, AND ITS CENTER SHALL BE 3' FROM BOC.
4. ONE WAY DRIVEWAY ENTER/EXIST PARKING SIGNS SHALL BE ORANGE REFLECTIVE. SIGNS SHALL HAVE WORDS AND DIRECTIONAL ARROW FOR ENTERING/EXISTING. CONTRACTOR SHALL PROVIDE OWNER WITH SAMPLES FOR SELECTION.
5. BID ALT. NO. 1 INCLUDES PARKING LOT AND ASSOC. ITEMS, TREE WELLS, ADJACENT SWK. IT DOES NOT INCLUDE STORM AND POND ASSOCIATED ITEMS.
6. ALL PARKING STRIPING SHALL BE WHITE THERMOPLASTIC WITH GLASS BEADS.
7. ALL SUBGRADE SHALL BE COMPACTED TO 98% STANDRD PROCTOR +/-3 OR AS SHOWN IN GEOTECH REPORT.
8. ALL SLOPES STEEPER THAN 10/1 SHALL BE COVERED IN CURLEX MATTING OR APPROVED EQUAL UNTIL 70% GROUND VEGETATION COVERAGE IS ESTABLISHED.
9. PAVEMENT SECTION SHALL BE 8" OF COPACTED FLEX BASE ON 2" OF HMAC TY-D NO RAP.
10. WHEEL STOPS SHALL BE 6' CLEARLINE RUBBER WHITE REFL. FROM TRAFFIC SAFETY STORE OR APPROVED EQUAL. WHEEL STOPS SHALL BE INSTALLED WHERE CENTER OF WHEEL STOP IS LOCATED 3' FROM BACK OF CURB.

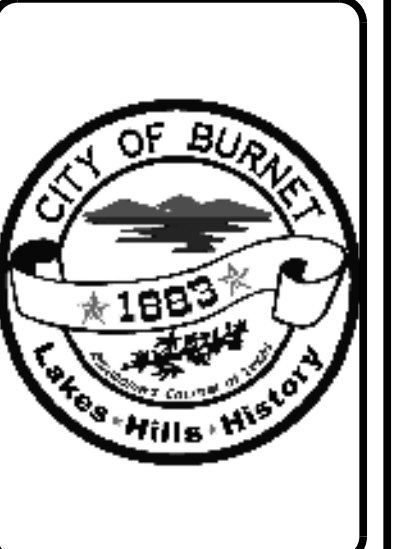
**TEMPORARY BENCHMARK INFORMATION:**

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- 2. 10245070.591, 2959115.825, 1283.287, CP
- 3. 10245342.270, 2959030.792, 1289.103, CP
- 4. 10245306.052, 2958758.987, 1292.453, CP
- 5. 10244973.198, 2958764.856, 1283.566, CP

**SURVEY INFORMATION:**

1. THIS PROJECT IS REFERENCED FOR ALL BEARING AND COORDINATE BASIS TO THE TEXAS COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD83 - 2011 ADJUSTMENT), CENTRAL ZONE (4203).
2. DISTANCES SHOWN HEREON ARE GRID VALUES REPRESENTED IN U.S. SURVEY FEET.
3. ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID 18). UTILITIES SHOWN HEREON ARE BASED ON ABOVE GROUND AND VISIBLE EVIDENCE. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. SURVEYOR DOES NOT CERTIFY TO THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN HEREON. CONTRACTORS SHALL CONTACT APPROPRIATE UTILITY COMPANIES AND TEXAS 811 PRIOR TO EXCAVATION.

CITY OF BURNET  
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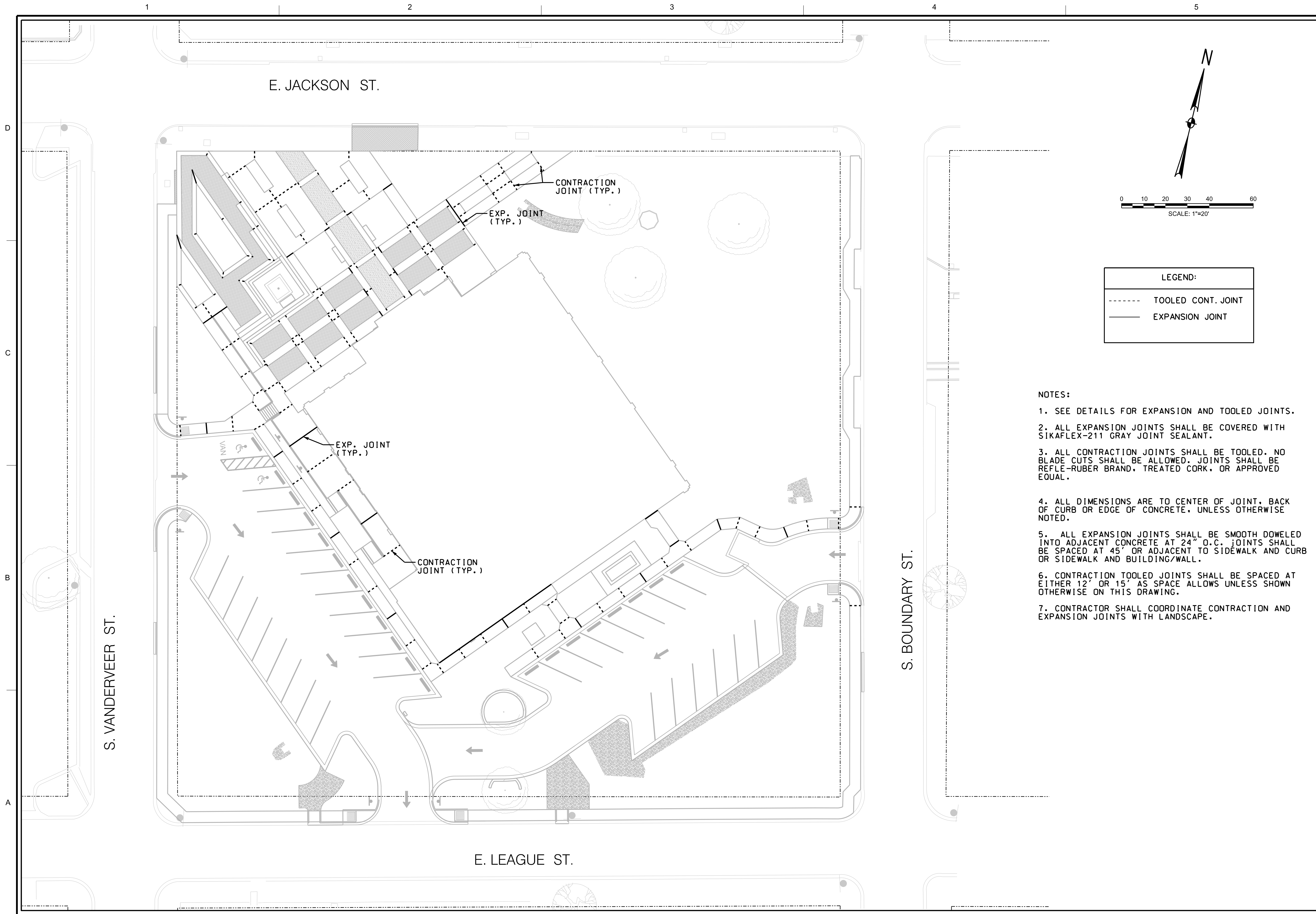
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9/19/23	CHANGES IN UTILITIES AND DETAILS		



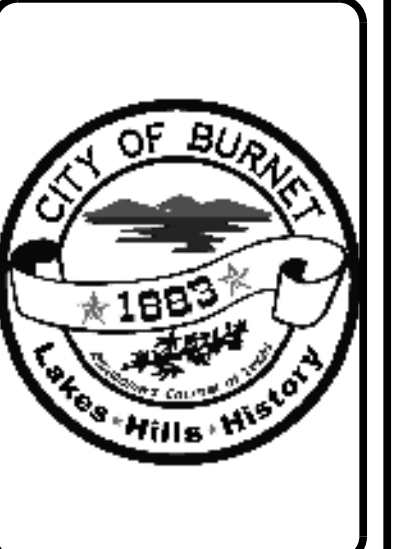
BURNET CITY HALL  
**SITE PLAN**

SHEET NO.  
**C3.1**





CITY OF BURNET  
 1001 BUCHANAN DR. SUITE 04  
 BURNET, TX 78611  
 PH: (512) 756-6093



NO.	DESCRIPTION	DATE	ID
9/19/23	CHANGES IN UTILITIES AND DETAILS		EB



BURNET CITY HALL  
**JOINTING PLAN**

SHEET NO.  
**C3.2**

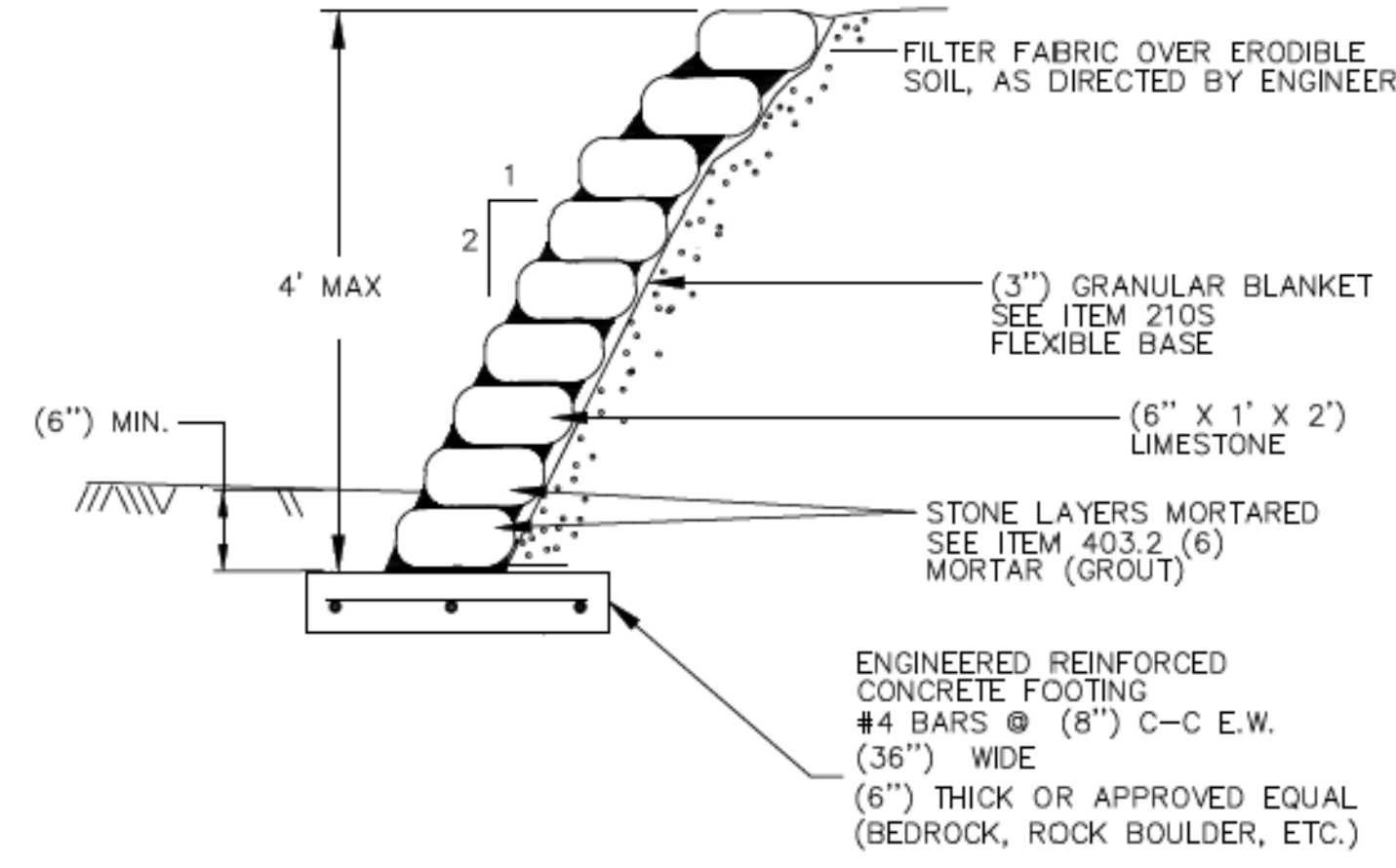
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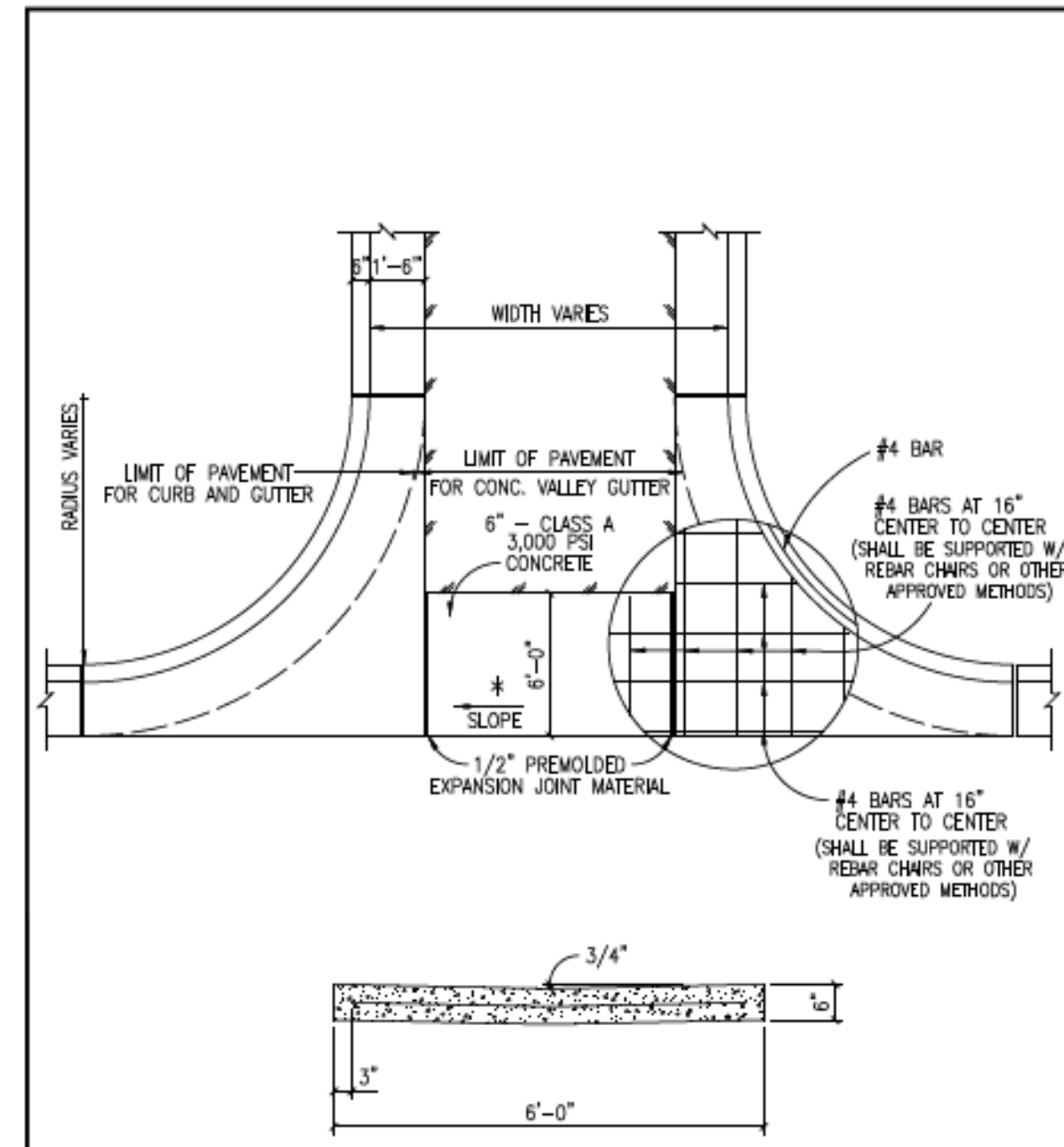
- - - - - TOOLED CONT. JOINT  
 ——— EXPANSION JOINT

- NOTES:
1. SEE DETAILS FOR EXPANSION AND TOOLED JOINTS.
  2. ALL EXPANSION JOINTS SHALL BE COVERED WITH SIKAFLEX-211 GRAY JOINT SEALANT.
  3. ALL CONTRACTION JOINTS SHALL BE TOOLED. NO BLADE CUTS SHALL BE ALLOWED. JOINTS SHALL BE REFLE-RUBER BRAND, TREATED CORK, OR APPROVED EQUAL.
  4. ALL DIMENSIONS ARE TO CENTER OF JOINT. BACK OF CURB OR EDGE OF CONCRETE, UNLESS OTHERWISE NOTED.
  5. ALL EXPANSION JOINTS SHALL BE SMOOTH DOWELED INTO ADJACENT CONCRETE AT 24" O.C. JOINTS SHALL BE SPACED AT 45' OR ADJACENT TO SIDEWALK AND CURB OR SIDEWALK AND BUILDING/WALL.
  6. CONTRACTION TOOLED JOINTS SHALL BE SPACED AT EITHER 12' OR 15' AS SPACE ALLOWS UNLESS SHOWN OTHERWISE ON THIS DRAWING.
  7. CONTRACTOR SHALL COORDINATE CONTRACTION AND EXPANSION JOINTS WITH LANDSCAPE.



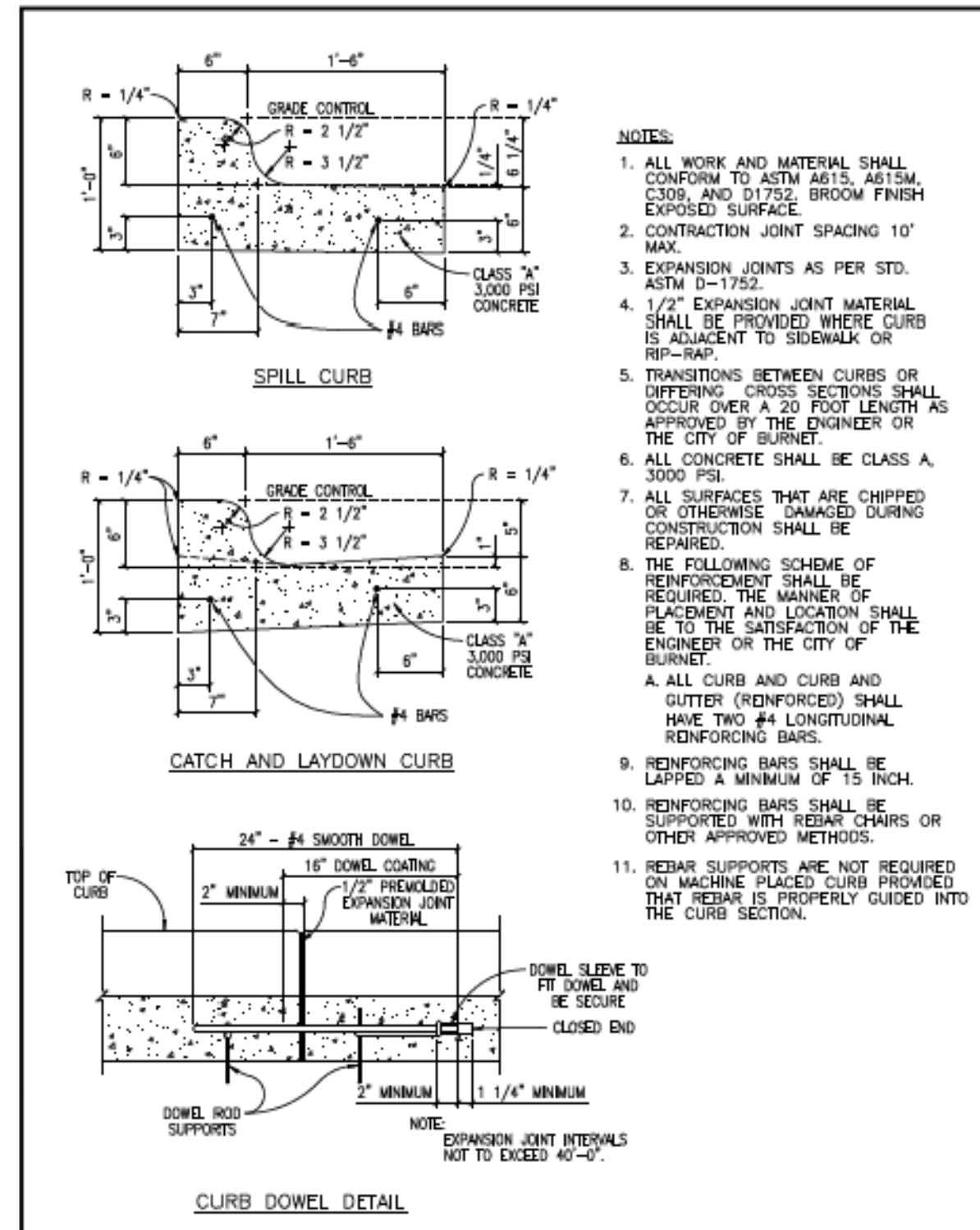
- THIS STANDARD APPLIES ONLY UNDER THE FOLLOWING CONDITIONS:
- H AND Z ARE SPECIFIED ON THE DRAWING.
  - GROUNDWATER IS NO HIGHER THAN THE BOTTOM OF THE FOOTING.
  - THE MATERIAL BELOW THE FOOTING IS FIRM AND STABLE.
  - THE MATERIAL BEHIND THE WALL HAS A LEVEL SURFACE.
  - THE MATERIAL IN FRONT OF THE WALL HAS A SLOPE NO STEEPER THAN 4 HORIZONTAL TO 1 VERTICAL.
  - THE FACE OF THE WALL IS NO STEEPER THAN 1 HORIZONTAL TO 2 VERTICAL.
  - SURCHARGE LOADS BEHIND THE WALL ARE NO CLOSER THAN DISTANCE H FROM THE TOP OF WALL.
- NOTES:
- DESIGN AND CONSTRUCTION OF ROCK WALL SHALL CONFORM TO THE REQUIREMENTS OF CITY CODE 16-7-2, PLACEMENT OF FENCES IN STREET CORNER AREAS, AND THE CITY OF AUSTIN TRANSPORTATION CRITERIA MANUAL FOR MINIMUM SIGHT DISTANCE.
  - CONCRETE SHALL CONFORM TO ITEM 403, "CONCRETE FOR STRUCTURES".

SCALE: N.T.S.

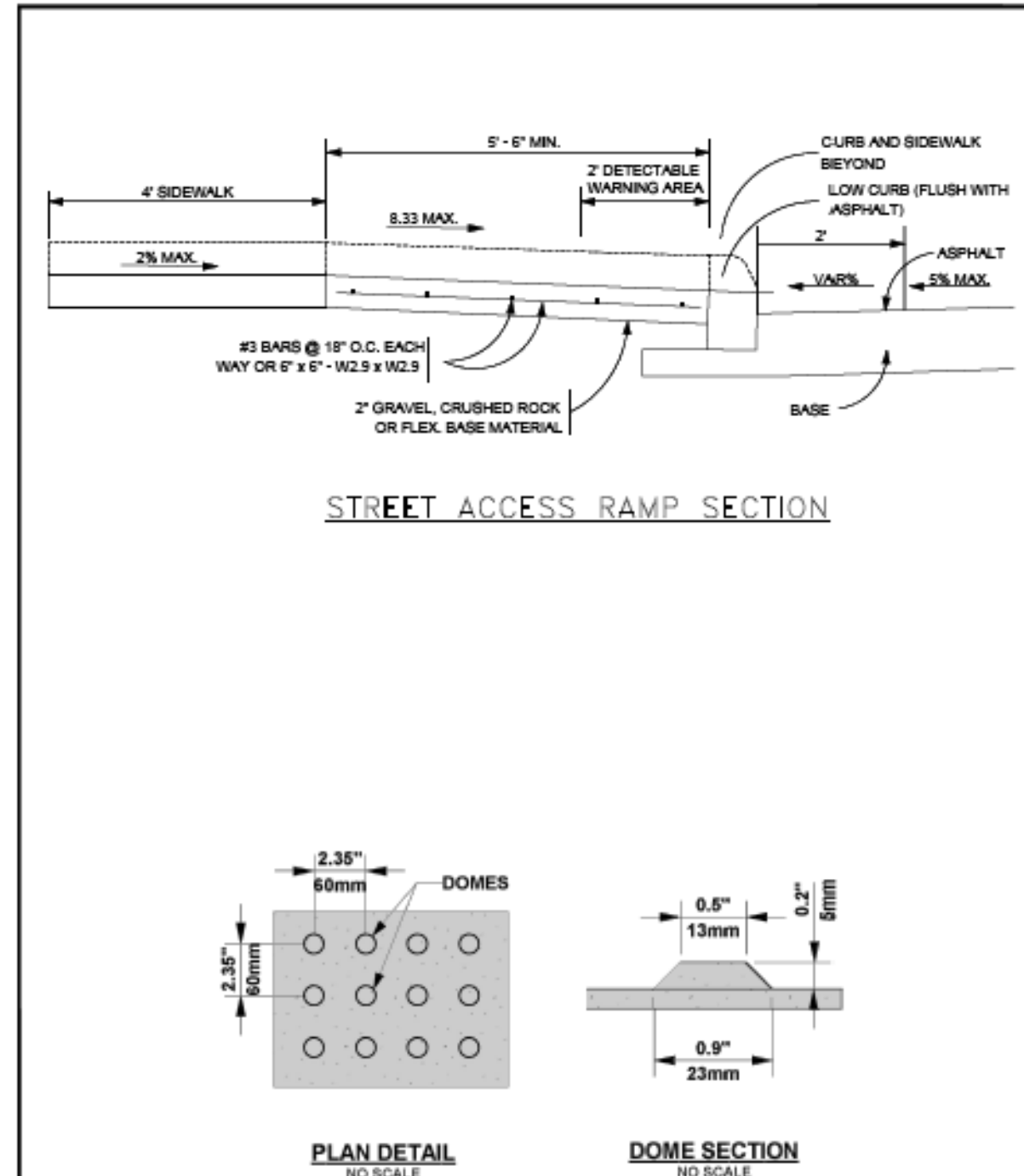


- * NOTES:
- USE CONCRETE VALLEY GUTTER WHERE SLOPE ≤ 0.70%

	CITY OF BURNET DEPARTMENT OF PUBLIC WORKS	CONCRETE VALLEY GUTTER STANDARD
	APPROVED BY: STAFF DATE: 08/2020	The Architect/Engineer assumes responsibility for appropriate use of this standard. DETAIL NUMBER: SD-04



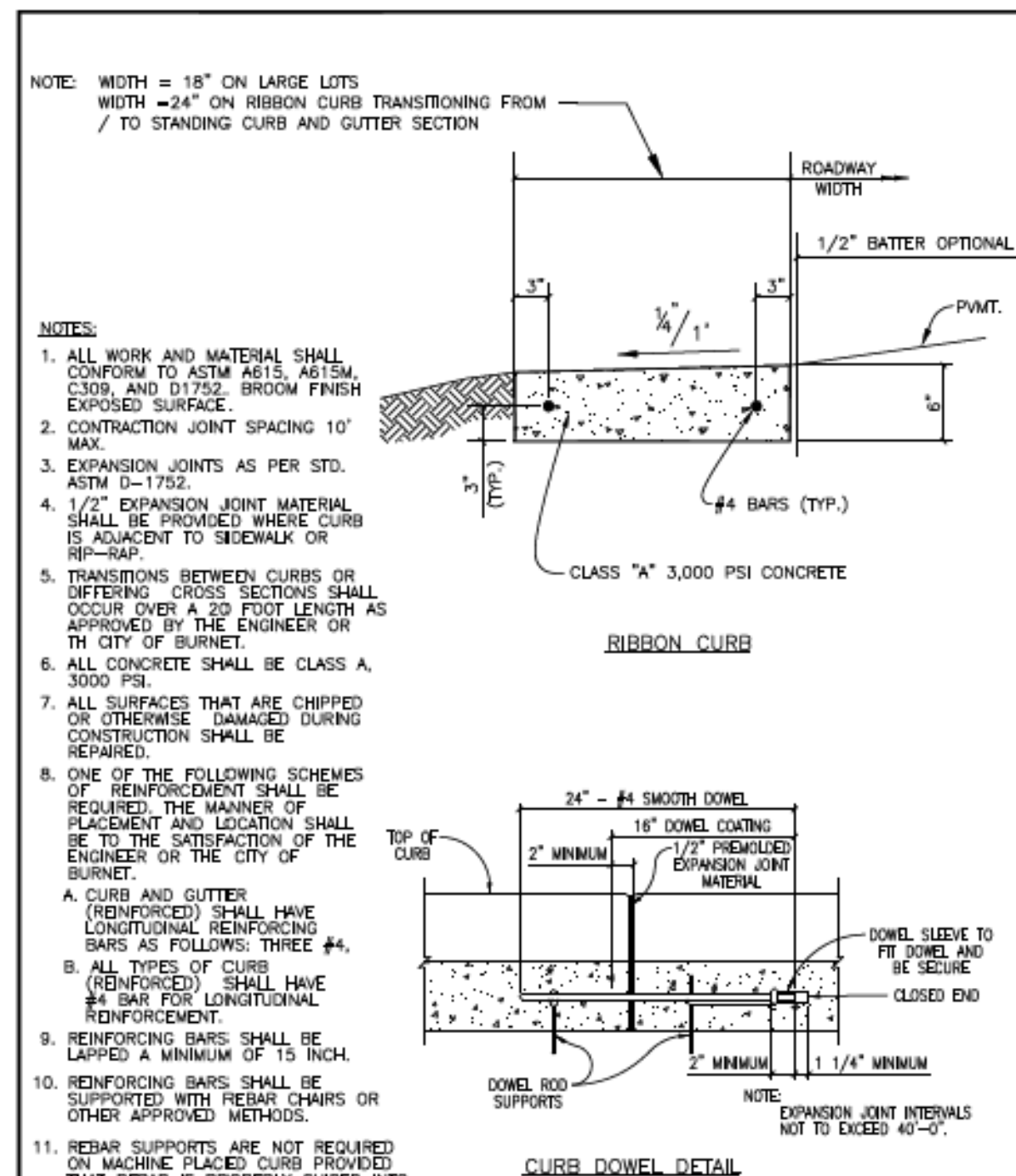
	CITY OF BURNET DEPARTMENT OF PUBLIC WORKS	CURB AND GUTTER STANDARD
	APPROVED BY: STAFF DATE: 08/2020	The Architect/Engineer assumes responsibility for appropriate use of this standard. DETAIL NUMBER: SD-06



	CITY OF BURNET DEPARTMENT OF PUBLIC WORKS	SIDEWALK RAMP DETAIL
	APPROVED BY: STAFF DATE: 08/2020	The Architect/Engineer assumes responsibility for appropriate use of this standard. DETAIL NUMBER: SD-19

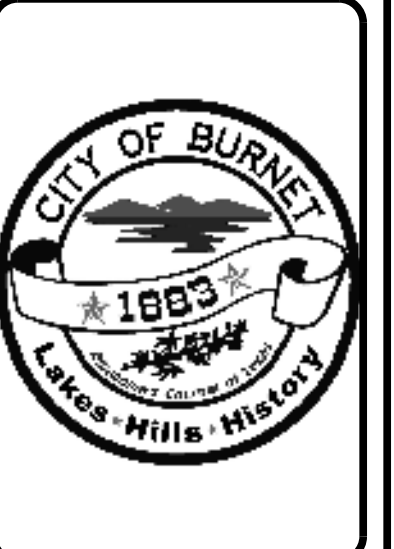
- SIDEWALK AND RAMPS: GENERAL NOTES
- SIDEWALKS SHALL BE PLACED 5' FROM BACK OF CURB. DEVIATION OF THE PATHWAY FROM A STRAIGHT LINE IS ALLOWED TO AVOID TREES OR OTHER OBSTRUCTIONS.
  - FOR RESIDENTIAL STREETS, SIDEWALKS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 4'.
  - FOR OTHER THAN RESIDENTIAL STREETS, SIDEWALKS SHALL HAVE A MINIMUM UNOBSTRUCTED WIDTH OF 5' AND SEPARATED A MINIMUM OF 5' FROM THE BACK OF CURB.
  - SIDEWALK RAMP LENGTHS SHALL BE OF SUFFICIENT LENGTH TO MAINTAIN 8.33% (1:12) MAXIMUM SLOPE.
  - ALL CURB RAMPS OR LANDINGS ABUTTING THE CROSSWALK SHALL HAVE A DETECTABLE WARNING 24 INCHES DEEP (IN THE DIRECTION OF PEDESTRIAN TRAVEL) AND EXTENDING THE FULL WIDTH OF THE CURB RAMP OR LANDING. THE DETECTABLE WARNING SHALL CONSIST OF RAISED TRUNCATED DORIES, ALIGNED IN A GRID PATTERN WITH A DIAMETER OF A NOMINAL 0.3 INCHES (23mm), A HEIGHT OF NOMINAL 0.2 INCHES (5mm), AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCHES (60mm).
  - DETECTABLE WARNINGS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE.
  - RAMP SURFACE SHALL BE BRUSH FINISHED.
  - THESE DETAILS ARE FOR REFERENCE ONLY. ACTUAL LOCATIONS OF WHEELCHAIR RAMPS TO BE SHOWN ON CONSTRUCTION PLANS.
  - SIDEWALKS LESS THAN 5 FEET IN WIDTH SHALL BE PROVIDED WITH A PASSING SPACE AT A MAXIMUM SPACING OF 200 FEET.
  - RAMP SHALL BE CONSTRUCTED WITH 4" CLASS "A" CONCRETE AND 2" GRAVEL, CRUSHED ROCK OR FLEXIBLE BASE MATERIAL.
  - REINFORCING STEEL SHALL BE #3 BARS AT 18" O.C. EACH WAY OR 5' x 6' - W2.9 x W2.3.
  - SIDEWALK GRADES SHALL NOT EXCEED THE GRADE ESTABLISHED FOR THE ADJACENT ROADWAY, ANY SIDEWALK CONSTRUCTION THAT DEVIATES FROM THE NATURAL GRADE OF THE ROADWAY TO CREATE A GRADE STEEPER THAN THE EXISTING ROADWAY WILL REQUIRE RAMPS, HANDRAILS, AND RESTING PLATFORMS TO BE CONSTRUCTED IN ACCORDANCE WITH ADA AND TAB STANDARDS.
  - SIDEWALK CROSS GRADE SHALL HAVE A MAXIMUM SLOPE OF 2%. LANDINGS SHALL HAVE A MAXIMUM SLOPE OF 2% IN ANY DIRECTION.

	CITY OF BURNET DEPARTMENT OF PUBLIC WORKS	SIDEWALK RAMP DETAIL
	APPROVED BY: STAFF DATE: 08/2020	The Architect/Engineer assumes responsibility for appropriate use of this standard. DETAIL NUMBER: SD-19



	CITY OF BURNET DEPARTMENT OF PUBLIC WORKS	RIBBON CURB STANDARDS
	APPROVED BY: STAFF DATE: 08/2020	The Architect/Engineer assumes responsibility for appropriate use of this standard. DETAIL NUMBER: SD-08

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9/19/23	EB	NO.	DATE	ID
CHANGES IN UTILITIES AND DETAILS				

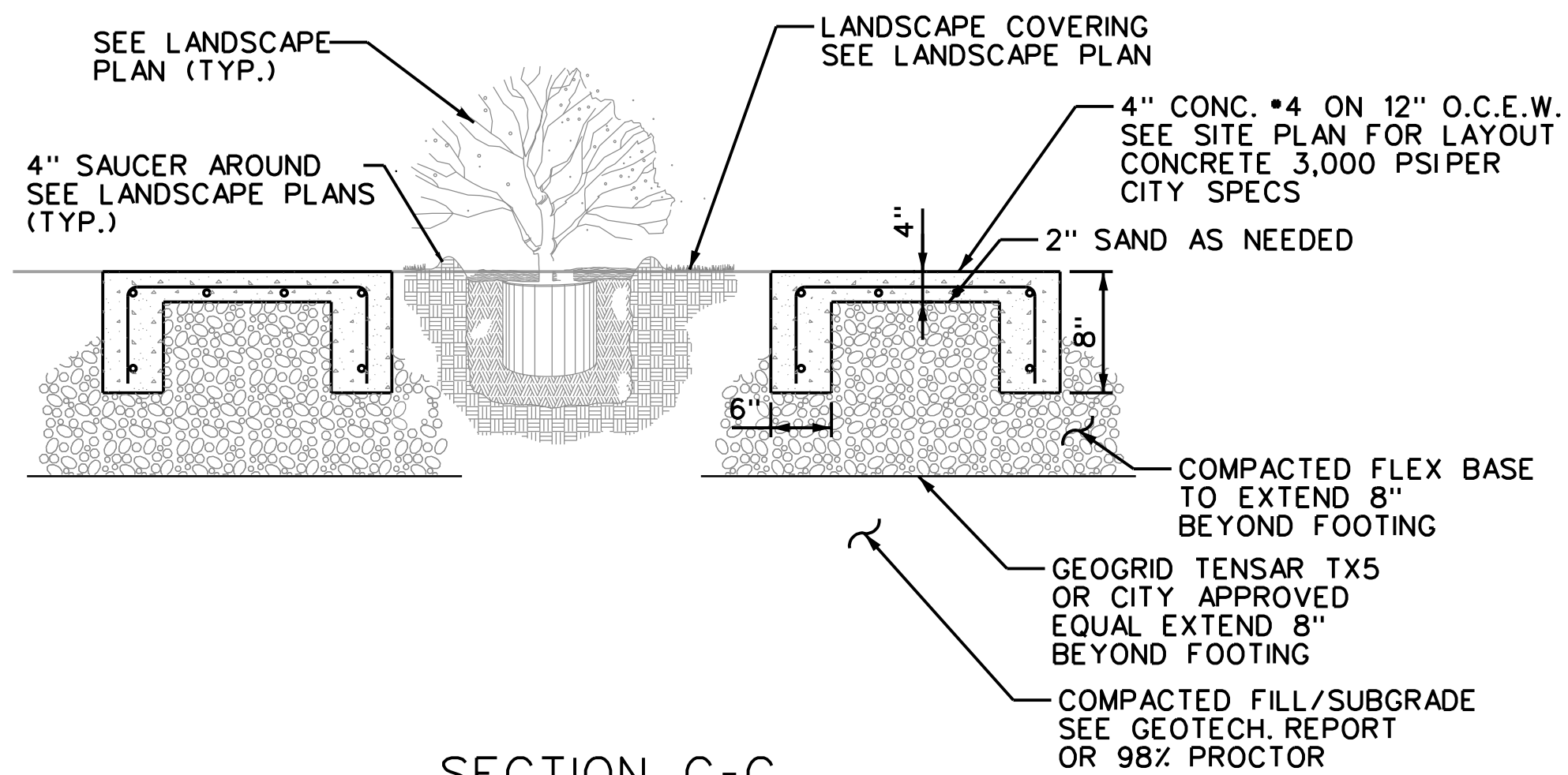


BURNET CITY HALL

**PAVING  
DETAILS**

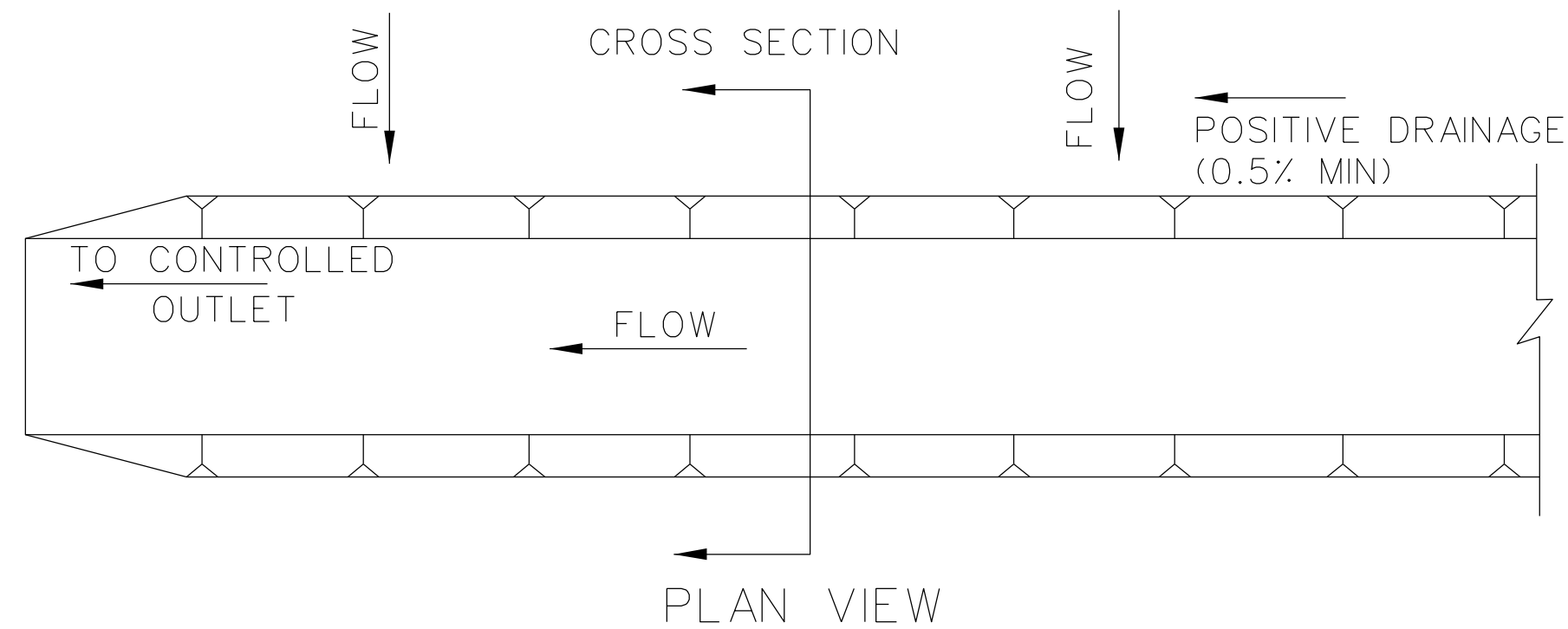
SHEET NO.  
**C3.3**



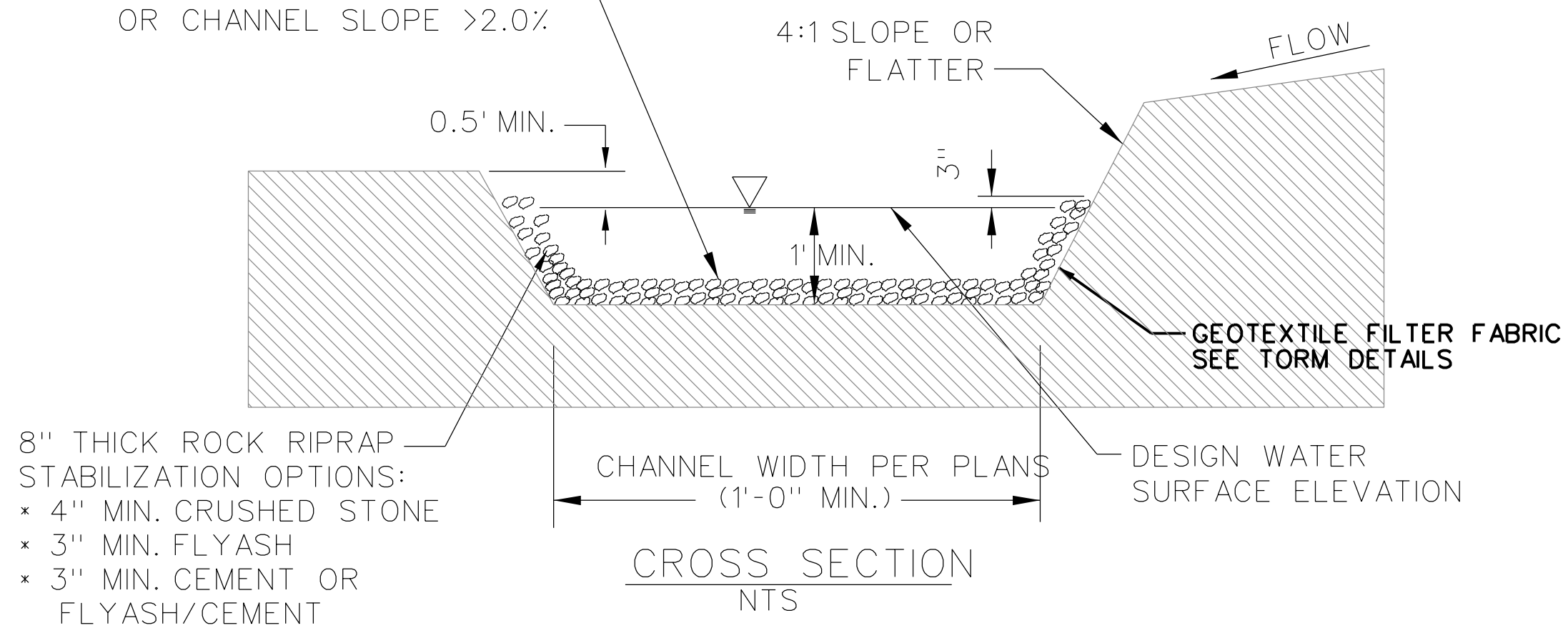


SECTION C-C

N.T.S.

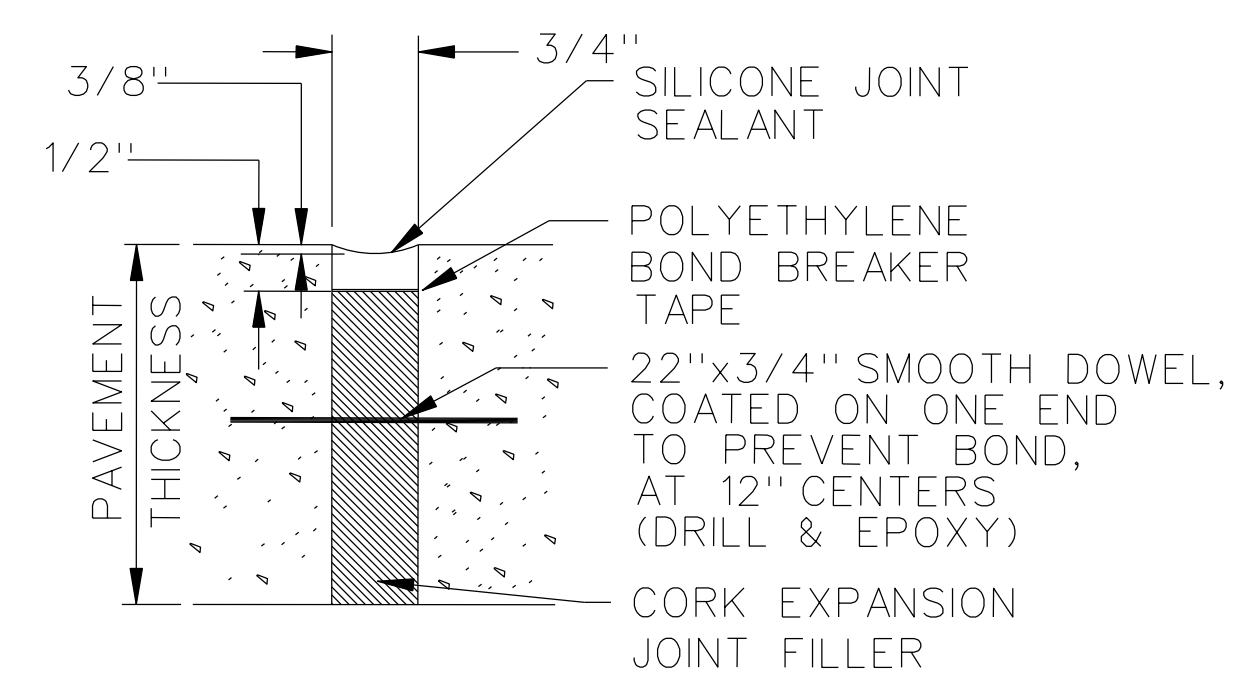
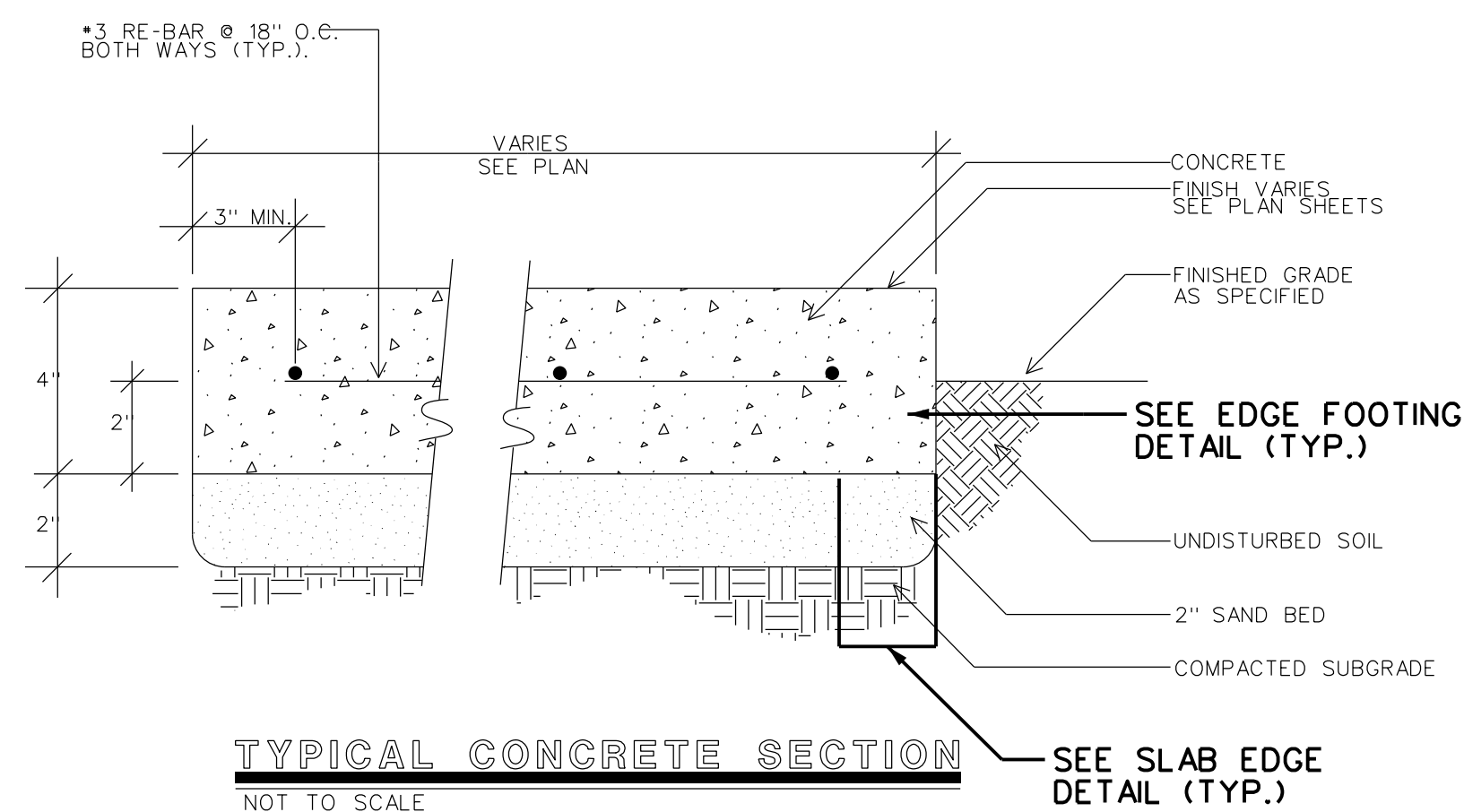


STABILIZATION REQUIRED WHERE DESIGN VELOCITY IS GREATER THAN 4.0 FPS. OR CHANNEL SLOPE >2.0%.



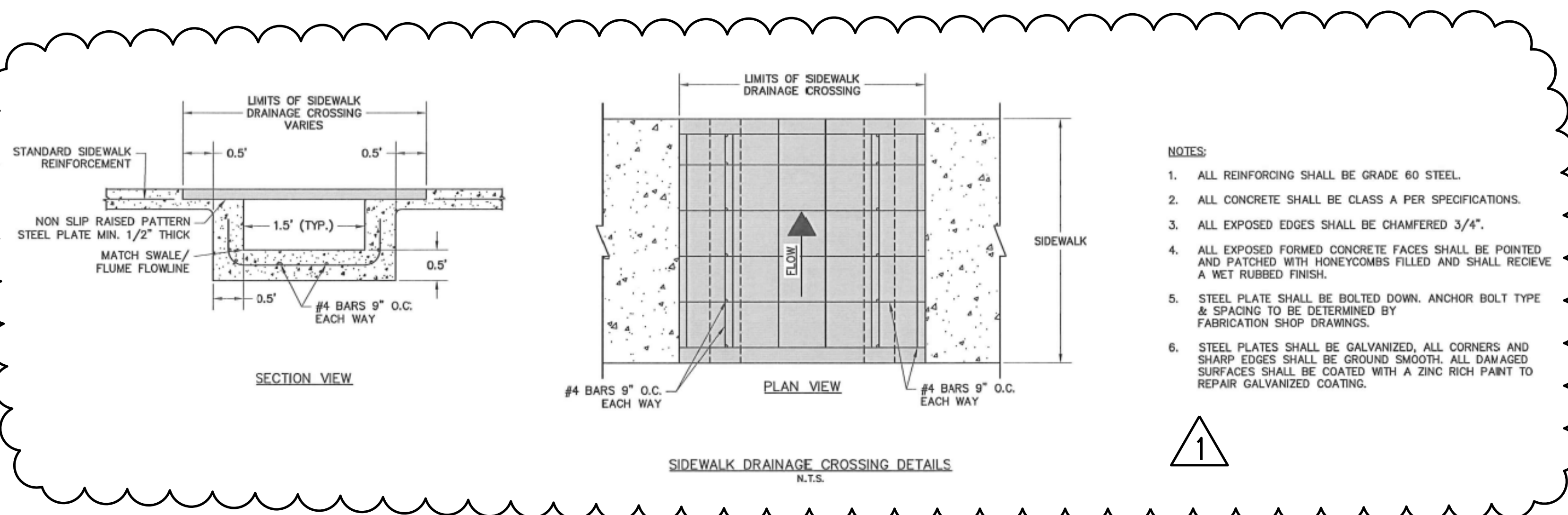
SECTION A-A

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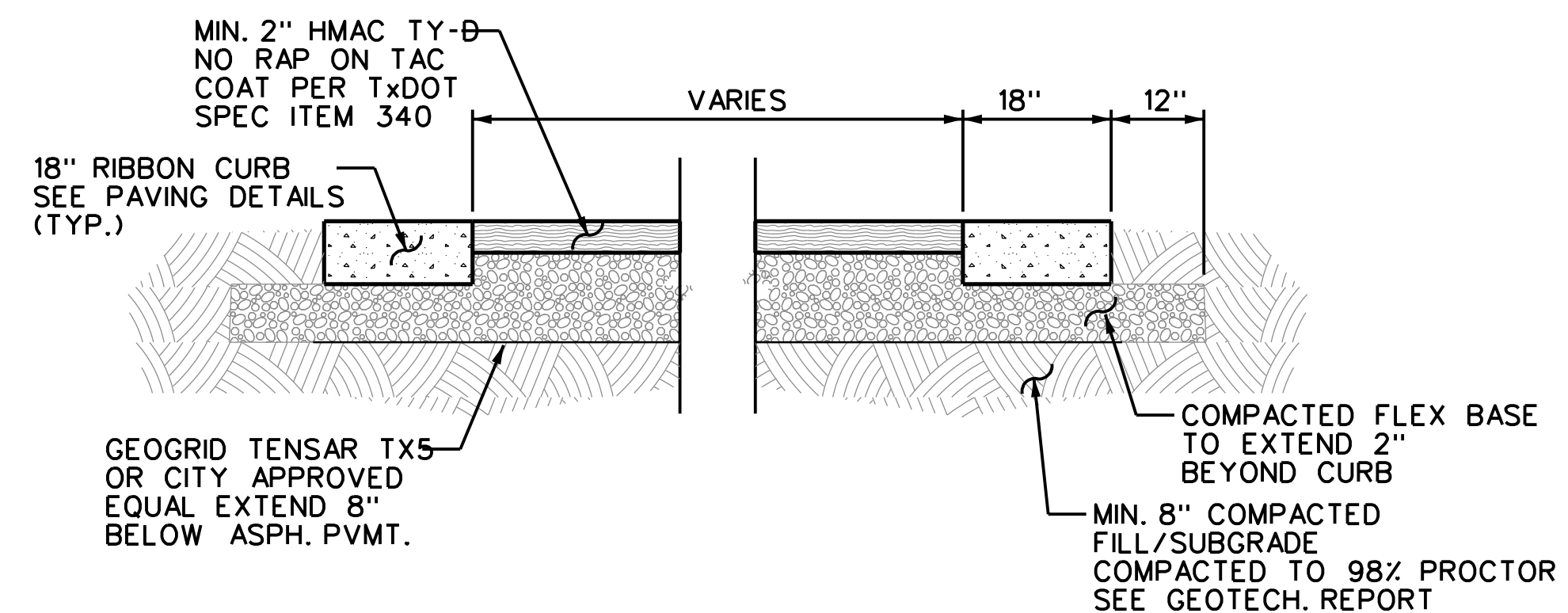
DETAIL EXPANSION JOINT

N.T.S.



GENERAL NOTES:

1. MINIMUM COMPACTION FOR THE SWALE SHALL BE 95% STANDARD PROCTOR.
2. STABILIZATION IS REQUIRED WHEN DESIGN VELOCITY >4 FPS OR SLOPE >2%. VEGETATION MAY BE USED FOR CONTROL OF EROSION. HOWEVER, PERSISTENT EVIDENCE OF EROSION IN THE FIELD, REQUIRES THE USE OF STABILIZATION REGARDLESS OF DESIGN PARAMETERS.
3. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS AND OTHER MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS NOT TO INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.
4. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE DISPOSED OF IN AN APPROVED SPOILS SITE SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.
5. INSPECTION SHALL BE CONDUCTED WEEKLY OR AFTER EACH RAINFALL EVENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY, AS NEEDED, BY THE CONTRACTOR.



PARKING PAVEMENT SECTION

N.T.S.

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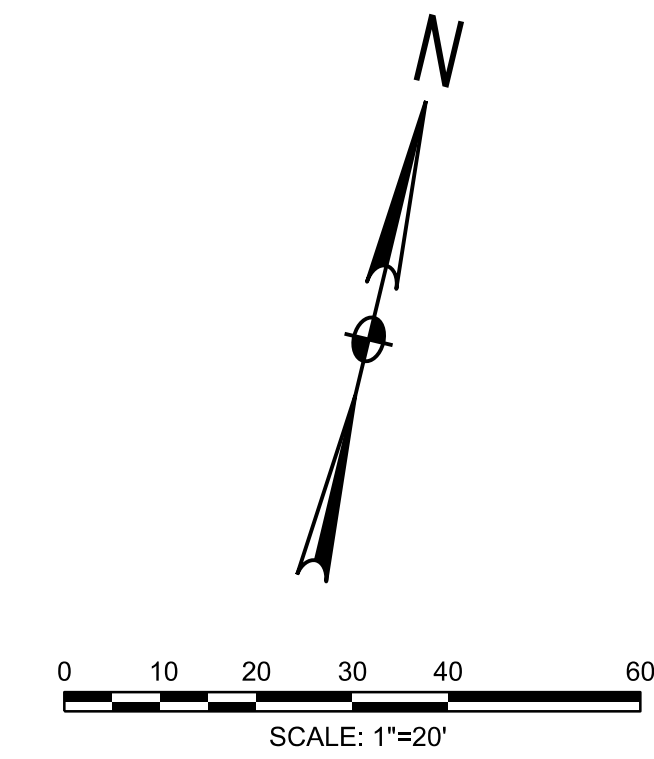
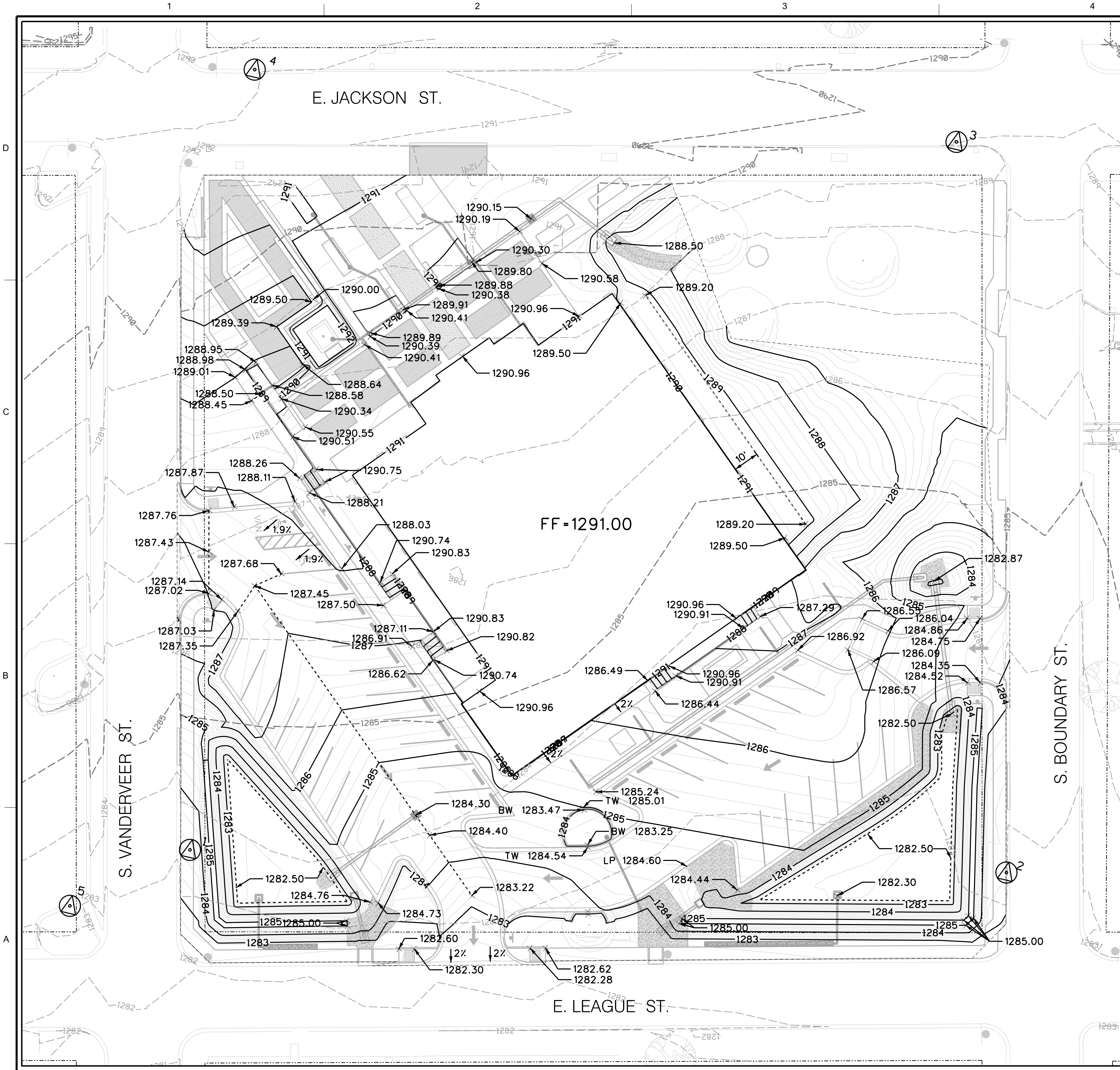
NO.	DESCRIPTION	DATE	ID
9/19/23	CHANGES IN UTILITIES AND DETAILS		



BURNET CITY HALL

**PAVING DETAILS**

SHEET NO.  
**C3.5**



LEGEND:

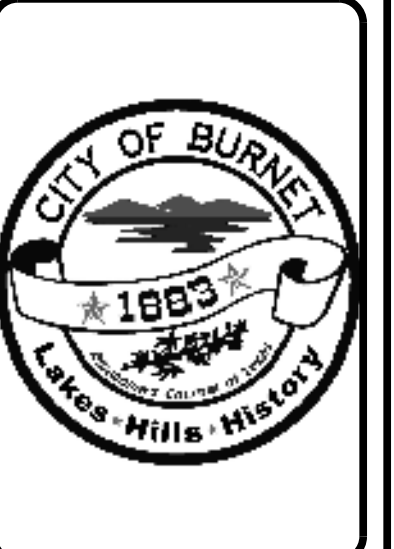
	1' MAJOR CONTOUR
	0.2' MINOR CONTOUR
	1' EXIST. CONTOUR
	GRADE BREAK
	X.XX SPOT ELEVATION
	LIMITS OF GRADING

- NOTES:
1. CONTRACTOR SHALL REMOVE AND STOCKPILE TOP 4" OF TOPSOIL PRIOR TO ANY OTHER EARTHWORK COMMENCES.
  2. CONTRACTOR SHALL CALL THE CITY'S GEOTECH TESTING COMPANY FOR COMPACTION TESTING IF COMPACTED SOIL REACHES 18" OR LESS.
  3. THIS GRADING PLAN IS 90% ROUGH GRADING. MINOR DETAILED EARTHWORK OR IMPERFECTIONS TO BE CORRECTED BY THE CONTRACTOR IN THE FIELD WITH PRIOR APPROVAL OF THE CITY.
  4. SEE RE-VEGETATION AND LANDSCAPE PLANS FOR GROUND COVERAGE.

- TEMPORARY BENCHMARK INFORMATION:
1. 10245005.229, 2958805.164, 1283.736, CP
  2. 10245070.591, 2959115.825, 1283.287, CP
  3. 10245342.270, 2959030.792, 1289.103, CP
  4. 10245306.052, 2958758.987, 1292.453, CP
  5. 10244973.198, 2958764.856, 1283.566, CP

- SURVEY INFORMATION:
1. THIS PROJECT IS REFERENCED FOR ALL BEARING AND COORDINATE BASIS TO THE TEXAS COORDINATE SYSTEM, NORTH AMERICAN DATUM OF 1983 (NAD83 - 2011 ADJUSTMENT), CENTRAL ZONE (4203).
  2. DISTANCES SHOWN HEREON ARE GRID VALUES REPRESENTED IN U.S. SURVEY FEET.
  3. ELEVATIONS SHOWN HEREON ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988 (GEOID 18). UTILITIES SHOWN HEREON ARE BASED ON ABOVE GROUND AND VISIBLE EVIDENCE. LOCATION OF UNDERGROUND UTILITIES ARE APPROXIMATE. SURVEYOR DOES NOT CERTIFY TO THE LOCATION OF THE UNDERGROUND UTILITIES SHOWN HEREON. CONTRACTORS SHALL CONTACT APPROPRIATE UTILITY COMPANIES AND TEXAS 811 PRIOR TO EXCAVATION.

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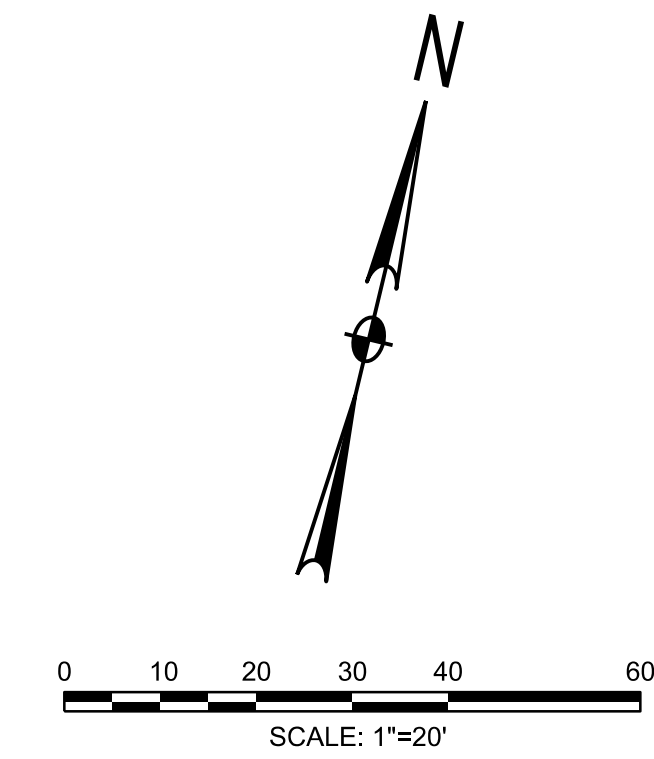
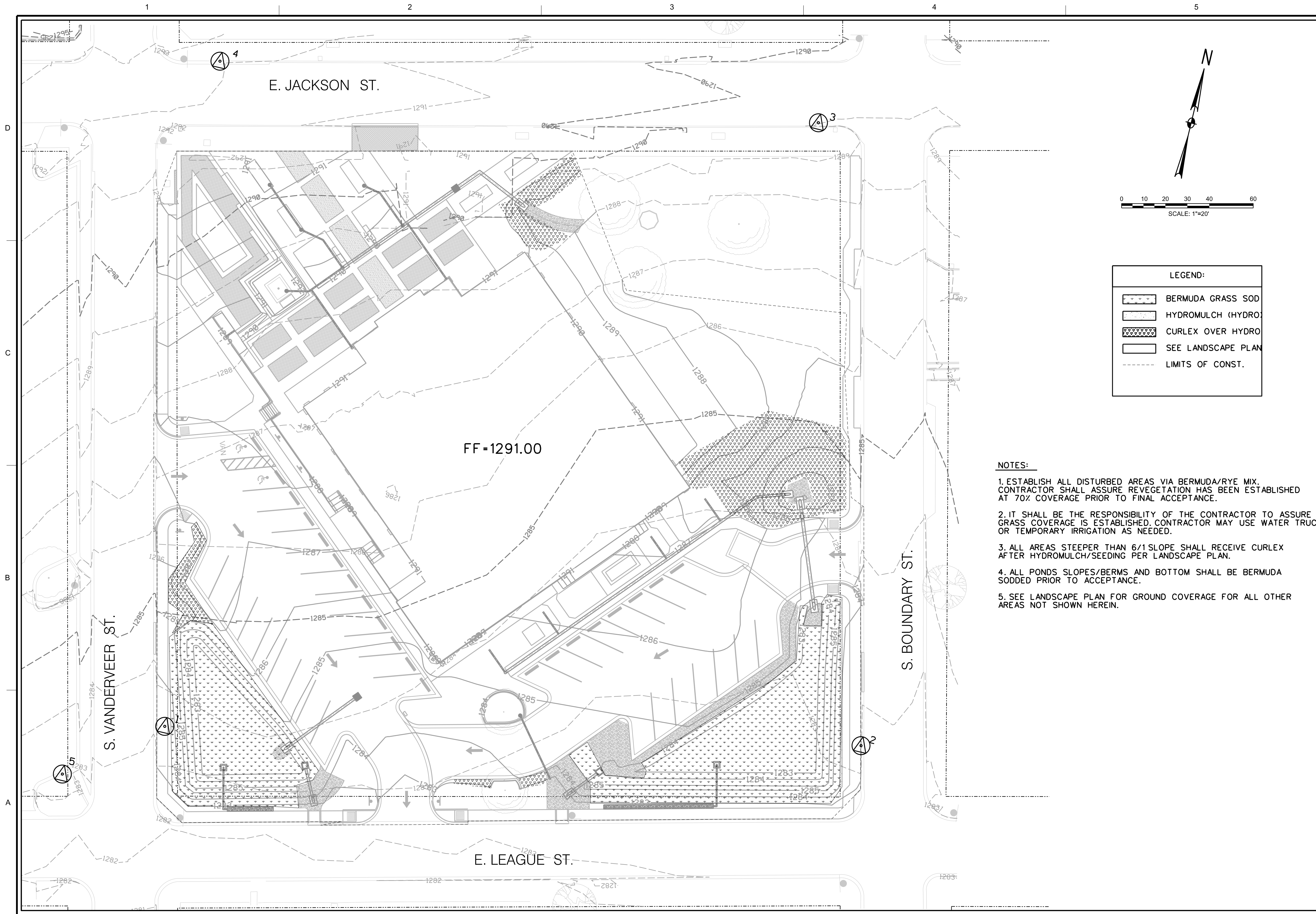


NO.	DESCRIPTION	DATE	ID
9/19/23	CHANGES IN UTILITIES AND DETAILS		



BURNET CITY HALL  
**GRADING PLAN**

SHEET NO.  
**C4.0**

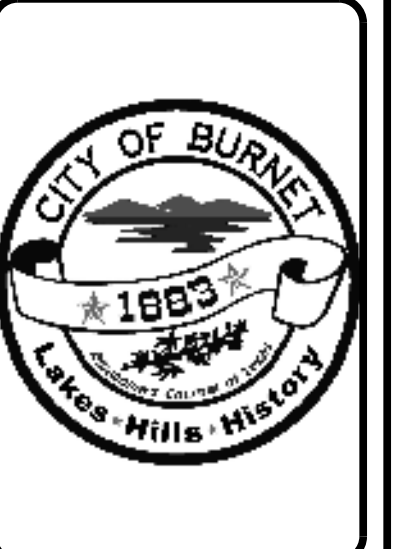


**LEGEND:**

	BERMUDA GRASS SOD
	HYDROMULCH (HYDRO)
	CURLEX OVER HYDRO
	SEE LANDSCAPE PLAN
	LIMITS OF CONST.

- NOTES:**
1. ESTABLISH ALL DISTURBED AREAS VIA BERMUDA/RYE MIX. CONTRACTOR SHALL ASSURE REVEGETATION HAS BEEN ESTABLISHED AT 70% COVERAGE PRIOR TO FINAL ACCEPTANCE.
  2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ASSURE GRASS COVERAGE IS ESTABLISHED. CONTRACTOR MAY USE WATER TRUCKS OR TEMPORARY IRRIGATION AS NEEDED.
  3. ALL AREAS STEEPER THAN 6/1 SLOPE SHALL RECEIVE CURLEX AFTER HYDROMULCH/SEEDING PER LANDSCAPE PLAN.
  4. ALL PONDS SLOPES/BERMS AND BOTTOM SHALL BE BERMUDA SODDED PRIOR TO ACCEPTANCE.
  5. SEE LANDSCAPE PLAN FOR GROUND COVERAGE FOR ALL OTHER AREAS NOT SHOWN HEREIN.

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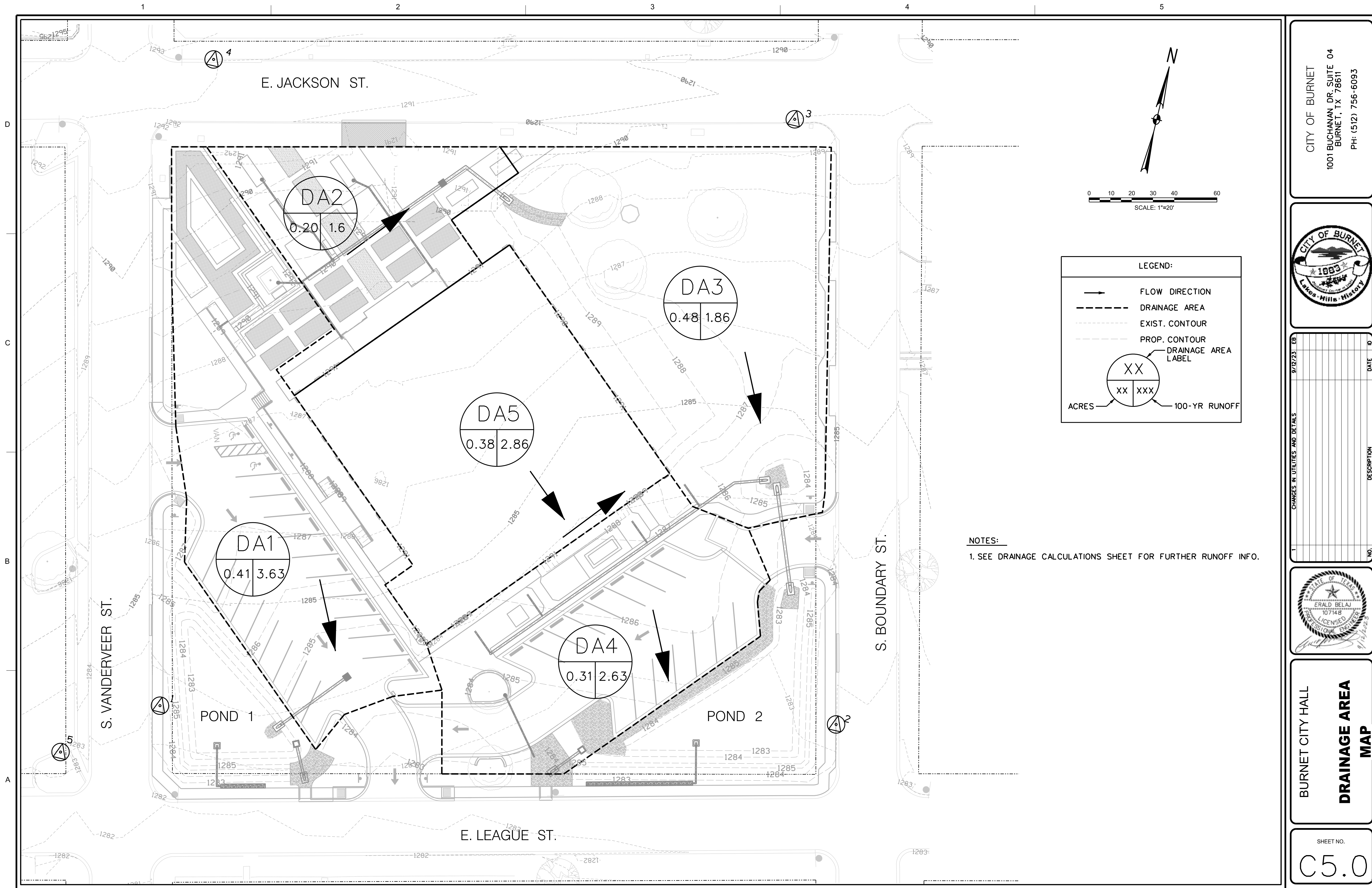


NO.	DESCRIPTION	DATE	ID
9/19/23 EB	CHANGES IN UTILITIES AND DETAILS		

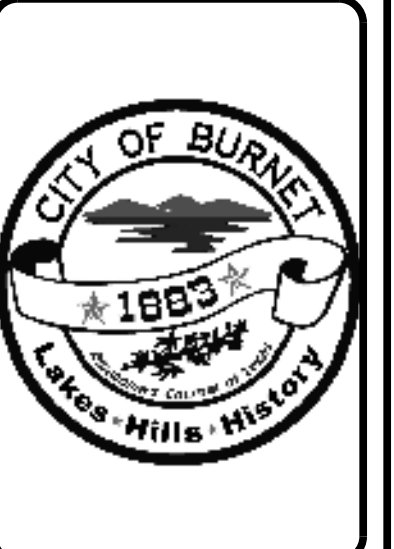


BURNET CITY HALL  
**REVEGETATION  
 PLAN**

SHEET NO.  
**C4.1**



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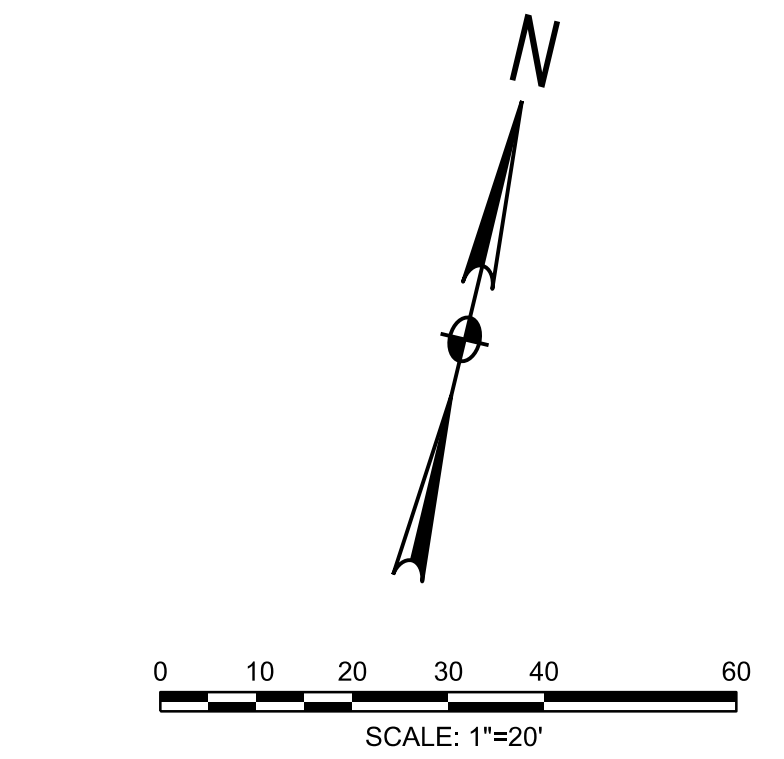
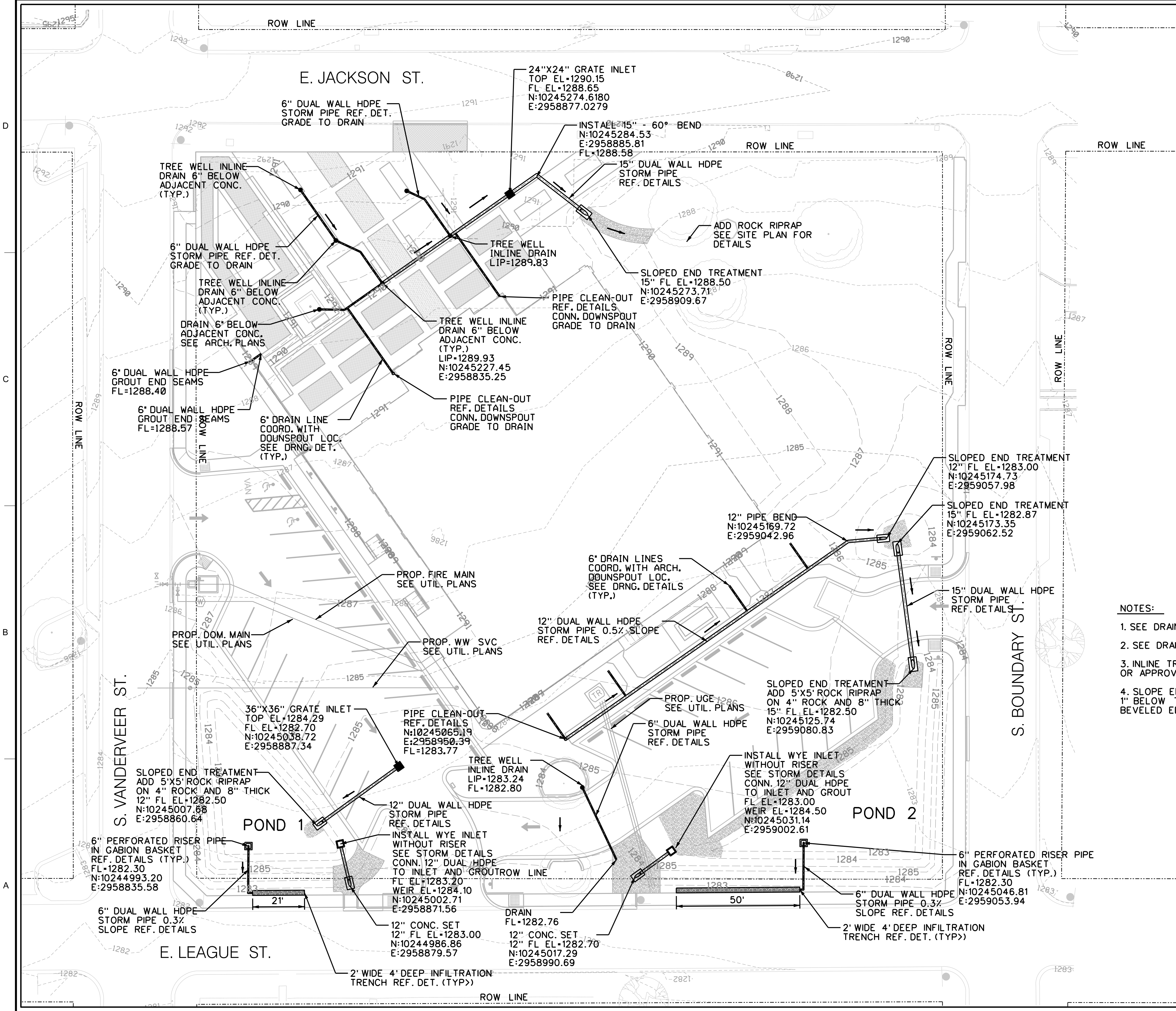


CHANGES IN UTILITIES AND DETAILS	DATE	ID	DESCRIPTION



BURNET CITY HALL  
**DRAINAGE AREA MAP**

SHEET NO.  
**C5.0**

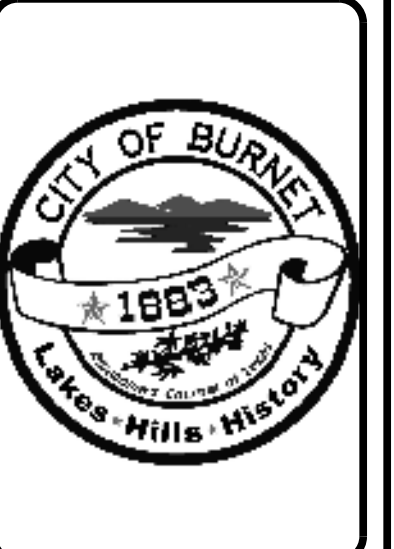


**LEGEND:**

	FLOW DIRECTION
	STORM PIPE
	GRATE INLET
	EXIST. CONTOUR
	PROP. CONTOUR
	SET

- NOTES:**
1. SEE DRAINAGE CALCULATIONS SHEET FOR FURTHER RUNOFF INFO.
  2. SEE DRAINAGE DETAILS SHEET FOR FURTHER INFO.
  3. INLINE TREE WELL DRAINS SHALL BE MIN. 6" DIA. BY NYLOPLAST OR APPROVED EQUAL.
  4. SLOPE END TREATMENT (SET): THE STORM PIPE TO TERMINATE 1" BELOW THE FLUSH ELEVATION OF SET. USE GROUT TO CREATE BEVELED EDGE.

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NO.	DESCRIPTION	DATE	ID
9/19/23 EB	CHANGES IN UTILITIES AND DETAILS		



BURNET CITY HALL  
**DRAINAGE PLAN**

SHEET NO.  
**C5.1**



RATIONAL METHOD: Q = C I A

Pond Tc = 5-min

MINIMUM TIME OF CONCENTRATION= 5 MIN.

**COMPOSITE C VALUE CALCS (80% MAX IMPV)**

D. AREA	AREA	AREA (Ac)			2-YR C VALUE			5-YR C VALUE			10-YR C VALUE			25-YR C VALUE			50-YR C VALUE			100-YR C VALUE		
	(Ac)	INPV	PERV	COMP	INPV	PERV	COMP	INPV	PERV	COMP	INPV	PERV	COMP	INPV	PERV	COMP	INPV	PERV	COMP	INPV	PERV	COMP
1	0.41	0.37	0.04	0.68	0.73	0.21	0.68	0.77	0.23	0.72	0.81	0.25	0.76	0.86	0.29	0.80	0.90	0.32	0.84	0.90	0.36	0.85
2	0.20	0.15	0.05	0.60	0.73	0.21	0.60	0.77	0.23	0.61	0.81	0.25	0.67	0.86	0.29	0.72	0.90	0.32	0.76	0.90	0.36	0.77
3	0.48	0.01	0.47	0.22	0.73	0.21	0.22	0.77	0.23	0.28	0.81	0.25	0.26	0.86	0.29	0.30	0.90	0.32	0.33	0.90	0.36	0.37
4	0.31	0.26	0.05	0.65	0.73	0.21	0.65	0.77	0.23	0.67	0.81	0.25	0.72	0.86	0.29	0.77	0.90	0.32	0.81	0.90	0.36	0.81
5	0.38	0.30	0.00	0.58	0.73	0.21	0.58	0.77	0.23	0.62	0.81	0.25	0.65	0.86	0.29	0.69	0.90	0.32	0.72	0.90	0.36	0.72

INPV=INPERVIOUS, PERV=PERVIOUS, COMP=COMPOSITE

**PROPOSED DRAINAGE CALCULATIONS RATIONAL**

D. AREA	AREA (Ac)	C VALUE						INTENSITY I (in/hr) (5-min Tc)						RUNOFF Q (cfs)					
		2-YR	5-YR	10-YR	25-YR	50-YR	100-YR	2-YR	5-YR	10-YR	25-YR	50-YR	100-YR	2-YR	5-YR	10-YR	25-YR	50-YR	100-YR
1	0.41	0.68	0.72	0.76	0.80	0.84	0.85	5.88	6.96	7.80	8.88	9.72	10.44	1.64	2.05	2.42	2.93	3.36	3.63
2	0.20	0.60	0.61	0.67	0.72	0.76	0.77	5.88	6.96	7.80	8.88	9.72	10.44	0.71	0.84	1.05	1.27	1.47	1.60
3	0.48	0.22	0.28	0.26	0.30	0.33	0.37	5.88	6.96	7.80	8.88	9.72	10.44	0.62	0.93	0.98	1.29	1.55	1.86
4	0.31	0.65	0.67	0.72	0.77	0.81	0.81	5.88	6.96	7.80	8.88	9.72	10.44	1.18	1.45	1.74	2.11	2.43	2.63
5	0.38	0.58	0.62	0.65	0.69	0.72	0.72	5.88	6.96	7.80	8.88	9.72	10.44	1.30	1.63	1.92	2.32	2.66	2.86

**EXISTING DRAINAGE CALCULATIONS SCS METHOD**

D. AREA	AREA (Ac)	CN EXIST.		CN PROP.		COMP. CN		STORAGE (in.)		Tc		% Impervious		Infiltration Ia	
		Grass	IMP.	Grass	IMP.	Exist.	Prop	Exist.	Prop	Min.	Hr.	Exist.	Prop	Exist.	Prop
1	0.41	80	N/A	80	98	80	95	2.50	0.53	5.00	0.08	0%	90%	0.50	0.11
2	0.20	80	N/A	80	98	80	94	2.50	0.64	5.00	0.08	0%	75%	0.50	0.13
3	0.48	80	N/A	80	98	80	81	2.50	2.35	5.00	0.08	0%	2%	0.50	0.47
4	0.31	80	N/A	80	98	80	94	2.50	0.64	5.00	0.08	0%	84%	0.50	0.13
5	0.38	80	N/A	80	98	80	94	2.50	0.64	5.00	0.08	0%	80%	0.50	0.13

**Detention Volume**

POND	UNIT	POND 1	POND 2
Req Vol	CF	2,756	5,807
Designed	CF	2,756	5,807
2-YR	CF	2,051	4,246
5-YR	CF	2,334	4,870
10-YR	CF	2,479	5,192
25-YR	CF	2,607	5,476
50-YR	CF	2,695	5,673
100-YR	CF	2,756	5,807
2-YR	EL	1,283.75	1,284.10
5-YR	EL	1,283.90	1,284.30
10-YR	EL	1,283.98	1,284.38
25-YR	EL	1,284.02	1,284.45
50-YR	EL	1,284.06	1,284.50
100-YR	EL	1,284.10	1,284.54

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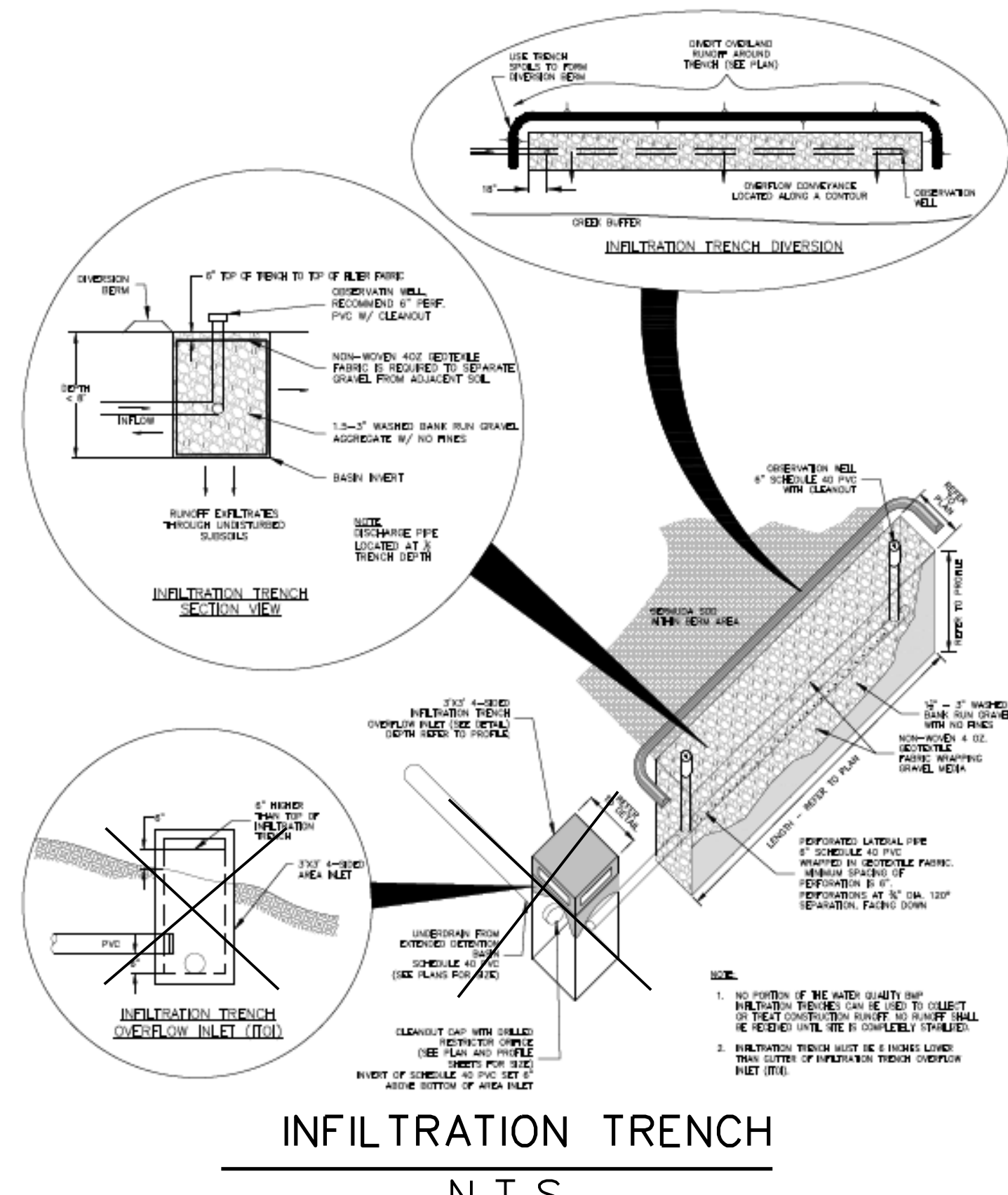
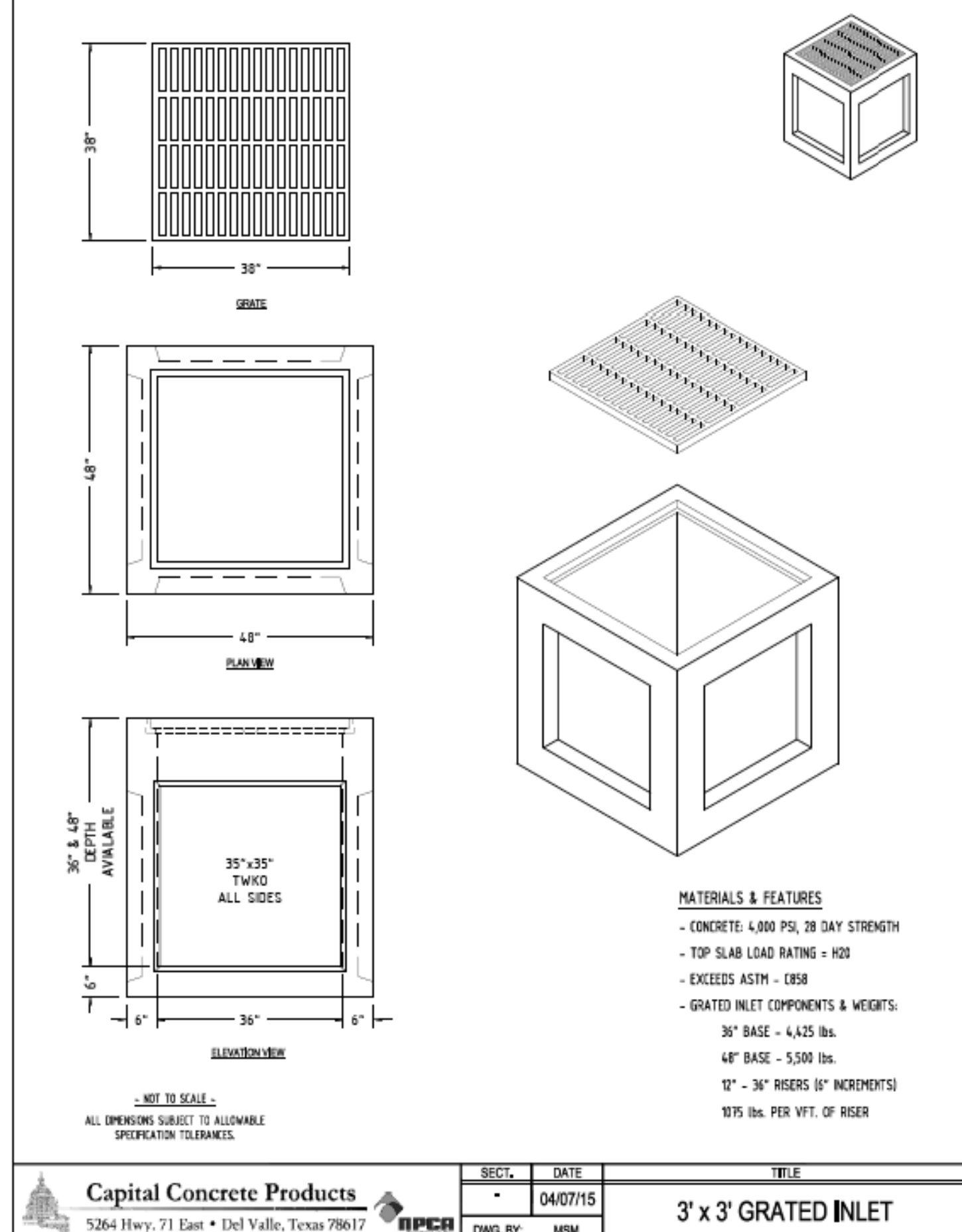
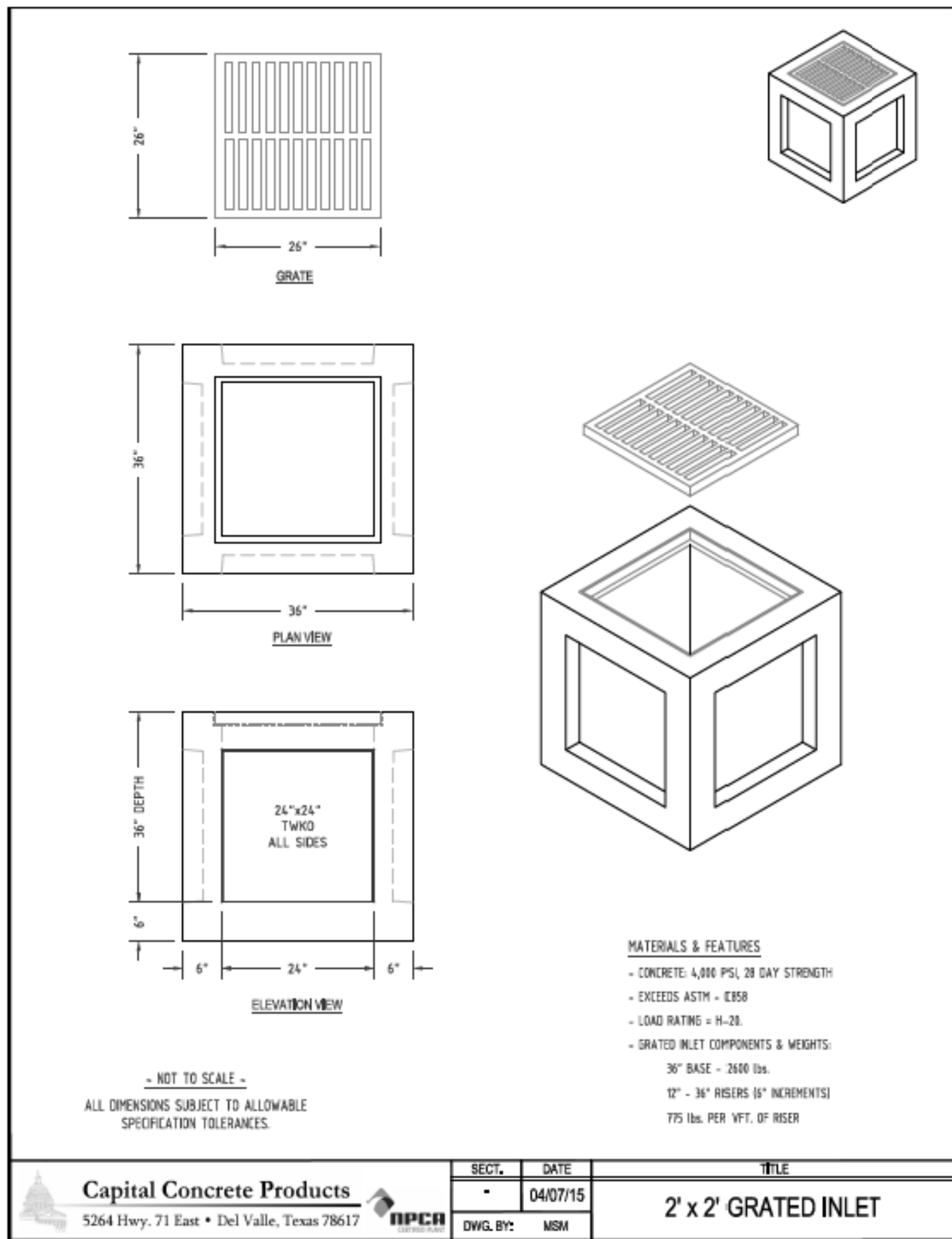
NO.	DESCRIPTION	DATE
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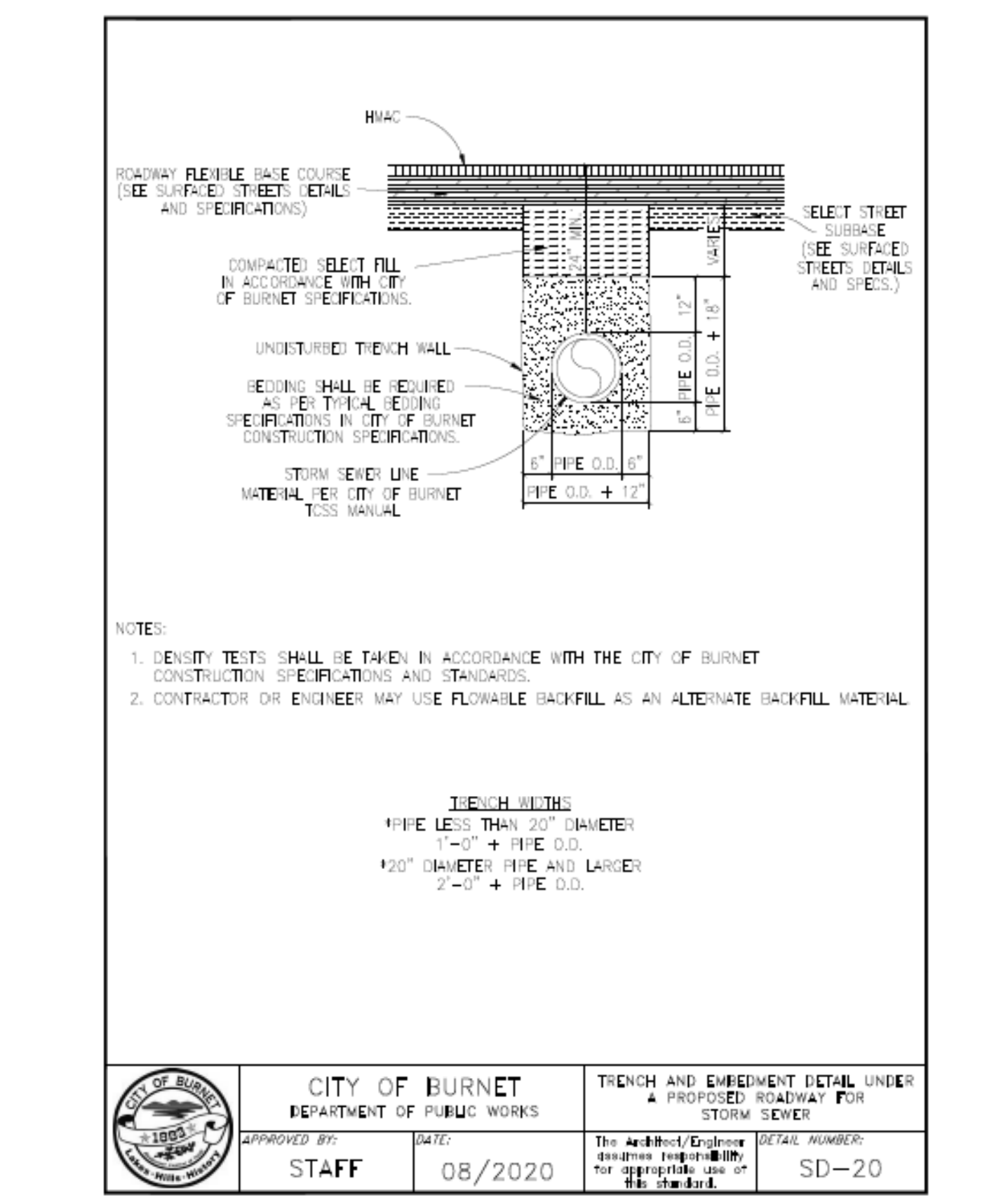
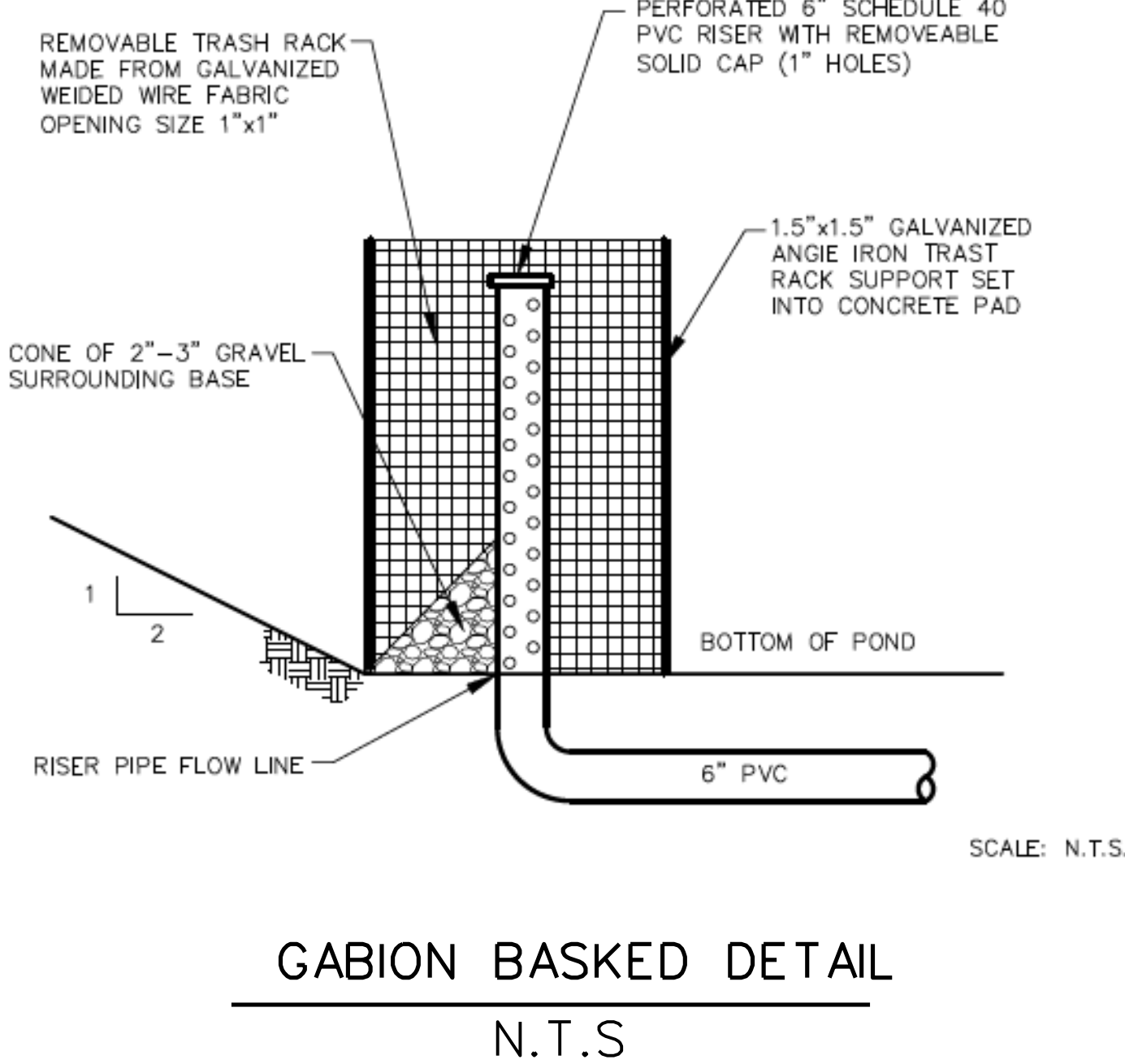
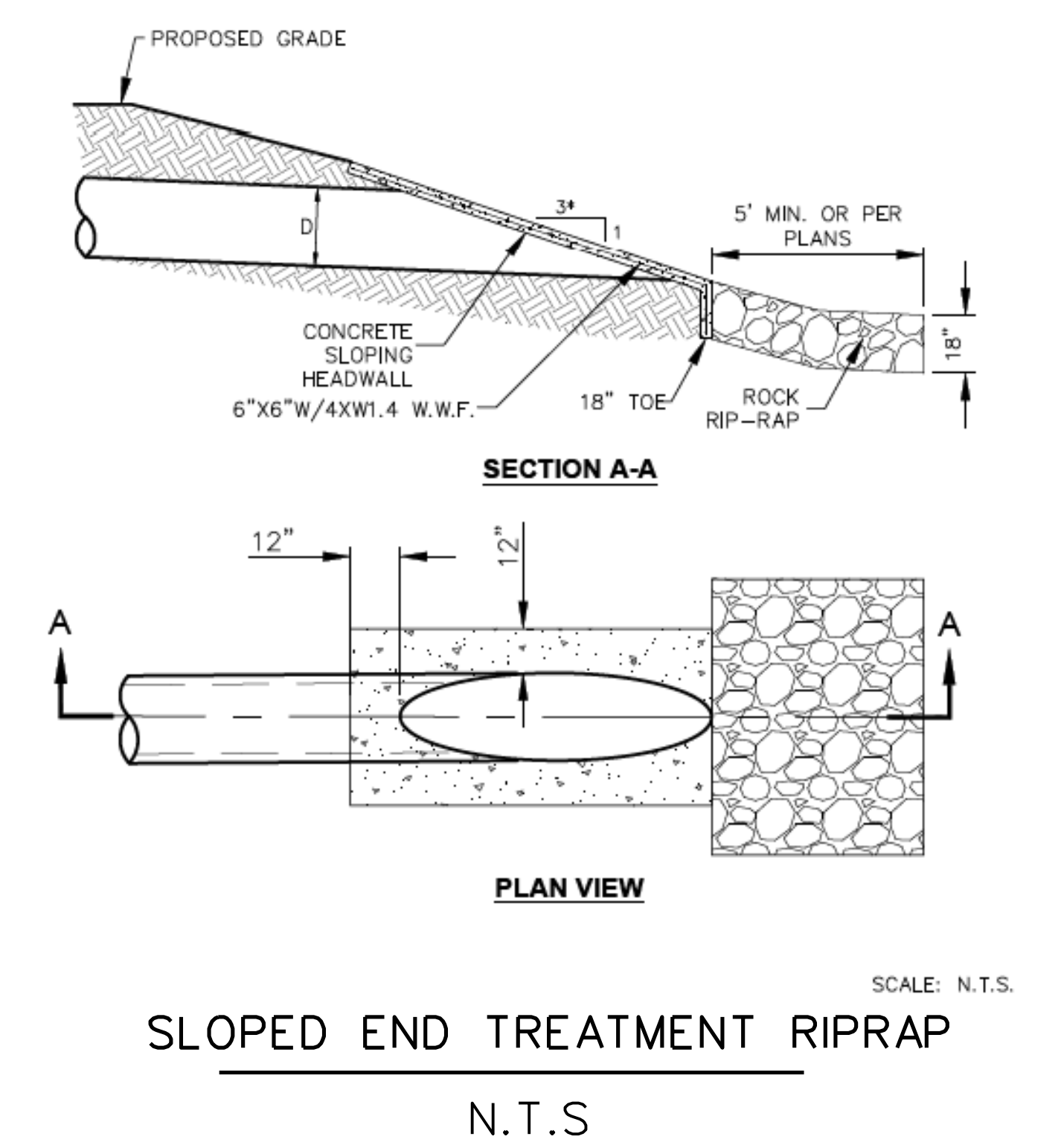
BURNET CITY HALL  
**DRAINAGE CALCULATIONS**

SHEET NO.  
**C5.2**





- GENERAL REQUIREMENTS**
- ALL CODES AND STANDARDS REFERENCED FOR THE DESIGN, FABRICATION AND CONSTRUCTION OF ALL CONCRETE STRUCTURES SHALL BE THE LATEST EDITION UNLESS NOTED OTHERWISE.
  - ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN STANDARD SPECIFICATIONS. IF A CONFLICT OR DISCREPANCY EXISTS BETWEEN THE DRAWINGS AND SPECIFICATIONS, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN UNLESS APPROVED OTHERWISE BY THE ENGINEER.
  - ANY REQUIRED CHANGES TO THE STRUCTURAL DRAWINGS DUE TO THE ACCEPTANCE OF ALTERNATES OR SUBSTITUTIONS ARE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW.
  - THE CONTRACTOR SHALL EXAMINE THE CIVIL AND STRUCTURAL DRAWINGS FOR DIMENSIONAL COORDINATION AND ELEVATION CONTROLS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO BEGINNING FABRICATION OR CONSTRUCTION.
  - THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF EXISTING STRUCTURES AND UTILITIES TO REMAIN PRIOR TO BEGINNING WORK AND PROTECT SUCH STRUCTURES AND UTILITIES FROM DAMAGE DURING CONSTRUCTION.
  - REVEGETATE ALL DISTURBED AREAS USING CITY OF AUSTIN SPECIFICATION (COA) 604S AND TOP SOIL DEPTHS PER COA SPECIFICATION 601S. (SEE EROSION CONTROL DETAILS AND NOTES SHEET)
- SUBGRADE PREPARATION AT CONCRETE RIP RAP**
- PRIOR TO PLACING SUBGRADE MATERIAL, CONSTRUCTION AREAS SHOULD BE STRIPPED OF ALL VEGETATION, LOOSE TOPSOIL, COBBLES, AND BOULDERS.
  - ALL SUBGRADE, IF ON-SITE SOIL, SHOULD BE PROFILED TO DETECT WEAK AREAS, WHICH SHOULD BE REMOVED AND REPLACED WITH SOIL EXHIBITING SIMILAR CLASSIFICATION AND MOISTURE CONTENT.
  - ROOTS OF TREES TO BE REMOVED WITHIN CONSTRUCTION AREAS SHOULD BE GRUBBED TO FULL DEPTHS. ANY VOIDS RESULTING FROM REMOVAL OF TREES AND BOULDERS SHALL BE FILLED WITH ON-SITE SOIL.
  - ALL SUBGRADE SOILS SHALL BE SCARIFIED TO A DEPTH OF 10 INCHES AND RE-COMPACTED TO MINIMUM OF 95% OF THE STANDARD PROCTOR (ASTM D 698) MAXIMUM DRY DENSITY. SOIL MOISTURE CONTENT SHALL BE 3% OF OPTIMUM.
  - ON-SITE SOILS CAN BE USED AS SUBGRADE MATERIAL FOR RIP RAP PROVIDED THAT:
    - THEY DO NOT CONTAIN ROCKS LARGER THAN FOUR INCHES IN THEIR GREATEST DIMENSION.
    - THEY HAVE PLASTICITY INDEX BETWEEN 5 AND 20.
    - THEY ARE FREE OF ORGANIC DEBRIS.
  - SUBGRADE MATERIAL SHALL BE PLACED IN LOOSE LIFTS NOT TO EXCEED NINE INCHES IN THICKNESS AND COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR (ASTM D 698) MAXIMUM DRY DENSITY AT A MOISTURE CONTENT WITHIN 3% OF OPTIMUM MOISTURE CONTENT.
  - COMPACTION AND MOISTURE CONTENT OF SUBGRADE SHALL BE INSPECTED BY THE GEOTECHNICAL ENGINEER.
- CAST IN PLACE CONCRETE**
- CONCRETE MIX DESIGN, ADMIXTURES, FORM WORK DESIGN AND CONSTRUCTION, METHODS FOR TREATMENT OF JOINTS, FINISHING OF FORMED SURFACES, AND QUALITY ASSURANCE SHALL BE IN ACCORDANCE WITH THE CITY OF AUSTIN, TEXAS STANDARD SPECIFICATIONS.
  - ALL CAST IN PLACE CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF AUSTIN, TEXAS STANDARD SPECIFICATIONS CLASS A CONCRETE AS COVERED IN TABLE 4 OF ITEM 403.
- CUT SLOPES**
- PERMANENT TURF REINFORCEMENT MATTING WILL BE USED TO STABILIZE SLOPES GREATER THAN 3:1 EXCEPT WHERE COMPETENT LIMESTONE IS ENCOUNTERED DURING CONSTRUCTION.
  - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) SAFETY AND HEALTH STANDARDS REQUIRE THE PROTECTION OF WORKERS ADJACENT TO EXCAVATIONS. THE OSHA GUIDELINES AND DIRECTIVES SHOULD BE ADHERED TO BY THE CONTRACTOR DURING CONSTRUCTION TO INSURE A SAFE WORKING ENVIRONMENT.
- EMBANKMENT FILL COMPACTION REQUIREMENTS**
- ALL FILL SHOULD BE PLACED ON PREPARED SURFACES IN LIFTS NOT TO EXCEED EIGHT INCHES LOOSE MEASURE, WITH COMPACTED THICKNESS NOT TO EXCEED SIX INCHES, UNLESS STATED OTHERWISE.
  - ALL FILL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE ASTM D 698 MAXIMUM DRY DENSITY AT A MOISTURE CONTENT RANGING BETWEEN -3 AND +3 PERCENT OF OPTIMUM MOISTURE CONTENT.
  - EARTHEN/ROCK EMBANKMENTS, WHICH MAY CONSIST OF THE ON-SITE SOILS AND/OR PROCESSED ROCK, SHOULD BE CONSTRUCTED AS GENERALLY OUTLINED IN TxDOT ITEM 132 OR CITY OF AUSTIN (COA) ITEM 132.
  - IF ANY IMPORTED FILL IS NEEDED FOR THE POND EMBANKMENTS, IT SHOULD MEET THE REQUIREMENTS OF A TYPE B BORROW MATERIAL AS OUTLINED IN ITEM 132 OF THE TxDOT STANDARD SPECIFICATIONS. IN ADDITION, THE UPPER 2 FEET OF EMBANKMENTS BELOW CLAY LINERS SHOULD NOT CONTAIN ANY ROCKS GREATER THAN 4 INCHES IN THE LARGEST DIMENSION, TO REDUCE THE POSSIBILITY OF CLAY LINER MIGRATION DOWNWARD INTO ROCK FILL OR VOID SPACES BETWEEN LARGE ROCKS.
  - EMBANKMENTS WHICH ARE CONSTRUCTED ON NATURAL SUBGRADE SLOPING STEEPER THAN 5(H):1(V) SHOULD BE "KEYED" INTO THE SUBGRADE AT THE TOE OF THE EMBANKMENT. THE KEYED-IN TOE SHOULD CONSIST OF A 12-FOOT WIDE SECTION WHICH IS EXCAVATED INTO THE SUBGRADE SUCH THAT A HORIZONTAL WORKING SURFACE IS ATTAINED FOR COMPACTION OF THE FIRST EMBANKMENT LIFT. SUCCESSIVE LIFTS SHOULD REMAIN HORIZONTAL AND SHOULD NOT TEND TO FOLLOW THE SLOPE OF THE NATURAL SUBGRADE.



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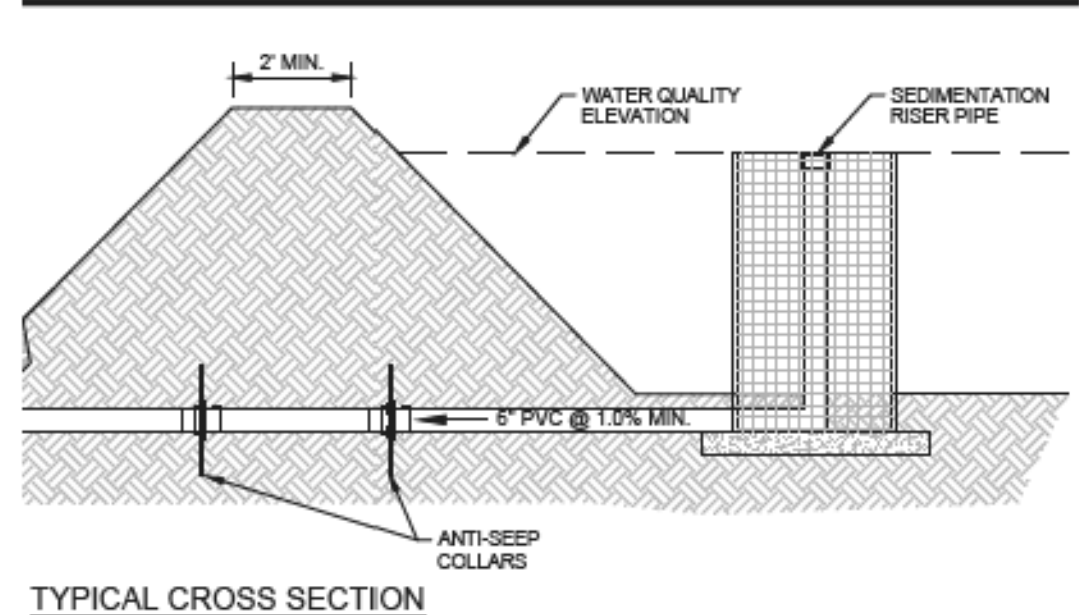
9/19/23 EB

NO.	DESCRIPTION	DATE	ID

BURNET CITY HALL

**DRAINAGE DETAILS**

SHEET NO.  
C5.4



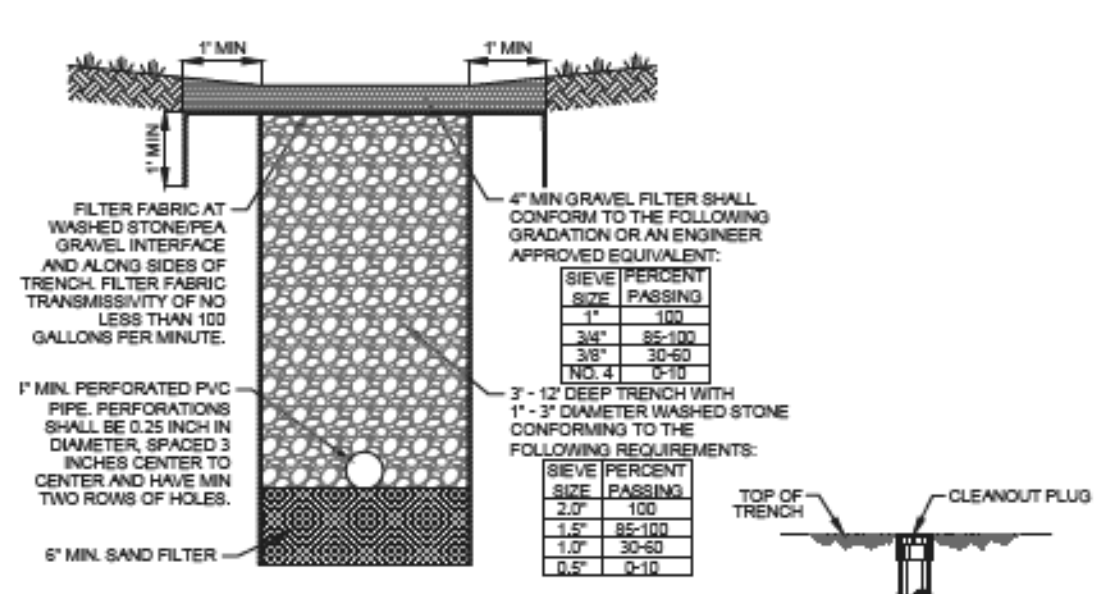
TYPICAL CROSS SECTION

**EXTENDED DETENTION BASIN SOILS:**  
 TO ENHANCE INFILTRATION AND WATER STORAGE WITHIN THE BASIN, TOPSOIL MUST BE PLACED ON THE BASIN FLOOR AFTER EXCAVATED BOTTOM IS SCRAPPED TO A DEPTH OF 2-3" TO IMPROVE DRAINAGE. THE TOPSOIL MUST BE 6-8" DEEP AND A SOIL MIXTURE OF 30-40% SAND OR GRANITE SAND, 60-70% TOPSOIL, AND SUGGEST 5-10% COMPOST OR PEAT TO AID WATER RETENTION AND PROMOTE VEGETATION GROWTH. SOIL BLEND MUST HAVE CLAY CONTENT LESS THAN 20% AND BE FREE OF STONES, STUMPS, ROOTS OR OTHER SIMILAR OBJECTS LARGER THAN 1". IF ON-SITE SOILS DO NOT MEET THESE SPECIFICATIONS, TOPSOIL PER THE ABOVE SPECS MUST BE ADDED. SANDY LOAM IS NOT AN APPROVED SOIL AND CALICHE IS NOT CONSIDERED A SOIL.

**MISCELLANEOUS POND NOTES:**  
 4. POND TO BE SURROUNDED BY A 6-FOOT HIGH PEDESTRIAN FENCE WITH GATES.  
 5. CONTRACTOR TO PROVIDE STRUCTURAL DRAWINGS FOR POND WALL AND OUTFALL STRUCTURES.  
 6. EXPANSION JOINTS ON FREE STANDING WALLS SHALL HAVE WATER TIGHT SEALS AS NEEDED.

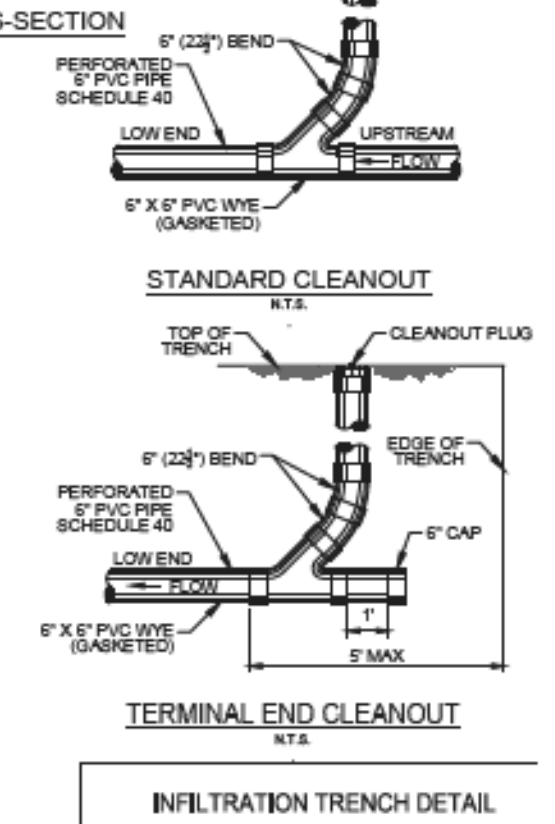
### POND BERM SECTION

N.T.S.  
SEE DETAILS SHEET 5.4



TYPICAL INFILTRATION TRENCH CROSS-SECTION  
NOT TO SCALE

- GENERAL NOTES:**
- GRAVING OF THE INFILTRATION TRENCH SHALL BE ACCOMPLISHED USING LOW IMPACT EARTHWORKING EQUIPMENT TO PREVENT COMPACTION OF THE UNDERLYING SOILS. WIDE TRACKED VEHICLES SUCH AS BACKHOES, SMALL DOZERS AND BOMBARS ARE RECOMMENDED.
  - EXCAVATE THE INFILTRATION TRENCH TO THE SPECIFIED DEPTH (ELEVATION). ALL SUB MATERIAL BELOW THE SPECIFIED ELEVATION SHALL BE LEFT UNDISTURBED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  - GRADE TO THE DEPTH (ELEVATION) SPECIFIED IN THE CONSTRUCTION DOCUMENTS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
  - IN THE EVENT THAT SEDIMENT IS INTRODUCED INTO THE BMP DURING OR IMMEDIATELY FOLLOWING EXCAVATION, THE SEDIMENT WILL NEED TO BE REMOVED FROM THE INFILTRATION TRENCH PRIOR TO INITIATING THE NEXT STEP IN THE INFILTRATION TRENCH CONSTRUCTION PROCESS.
  - CLEAN, WASHED 1 TO 3-INCH GRAVEL SHALL BE PLACED IN THE BOTTOM OF THE INFILTRATION TRENCH TO THE DEPTH SPECIFIED IN THE CONSTRUCTION DOCUMENTS. GRAVEL SHOULD BE PLACED IN LIFTS AND LIGHTLY COMPACTED WITH PLATE COMPACTORS.
  - CLEANOUTS SHALL BE INSTALLED EVERY 100' WITH A MINIMUM OF ONE TERMINAL END CLEANOUT AND ONE STANDARD CLEANOUT.



INFILTRATION TRENCH DETAIL

### INFILTRATION TRENCH SECTION

N.T.S.  
SEE DETAILS SHEET 5.4

PIPE	SQ. YDS.
18"	6.2
24"	6.9
27"	7.8
30"	9.5
36"	10.4
42"	12.0
48"	14.3
54"	16.4

**NOTES:**

- WHEN HEADWALLS AND WINGWALLS ARE REQUIRED, THEY SHALL CONFORM TO THE TEXAS DEPARTMENT OF TRANSPORTATION STANDARDS, OR AS DIRECTED BY THE CITY.
- ENERGY DISSIPATORS SHALL BE REQUIRED IF PIPE VELOCITY IS GREATER THAN 5.0 F.P.S. OR AS DIRECTED BY THE CITY OF BURNET.
- SUPPORT REINFORCING WIRE MESH REQUIRED AS SUPPORT FOR APPROACH SLAB AND SHALL BE SUPPORTED BY REBAR CHAIRS OR OTHER APPROVED METHODS.

	CITY OF BURNET DEPARTMENT OF PUBLIC WORKS		SLOPED HEADWALL	
	APPROVED BY: STAFF	DATE: 08/2020	The Architect/Engineer assumes responsibility for appropriate use of this standard.	DETAIL NUMBER: SD-15

RISER	
A	WEIGHT
1'-0"	1,975#
1'-6"	1,685#
2'-0"	1,955#
3'-0"	1,375#

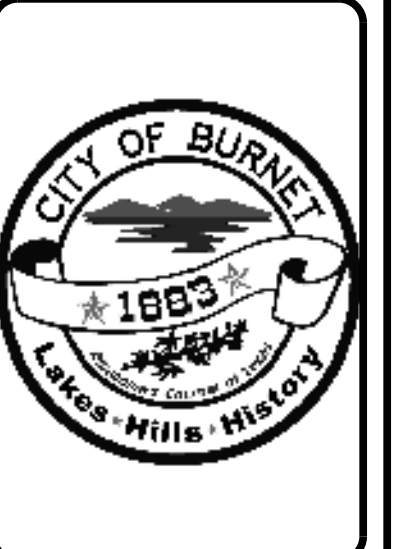
**NOTE:**

- MAX PIPE CONNECTION 27" RCP AT 9" DIAM
- MADE IN ACCORDANCE WITH ASTM C913
- STEEL REINFORCEMENT: ASTM A631 GRADE 60 OR EQ. ASTM A36/A 36M
- MAX BURIAL DEPTH 25'-4" FROM INLET FLOOR TO FINISHED GRADE
- PER 1-ADDT PRECAST BASE DETAIL TYPE '99' JANUARY 2015.
- NOT TRAFFIC RATED
- STEPS NOT AVAILABLE
- NUMEROUS RING & COVER OPTIONS ARE AVAILABLE

	REGION STATE CENTRAL TX	WYE INLET 3'-0" x 3'-0"
	DATE 2018	

### INFILTRATION TRENCH OVERFLOW INLET

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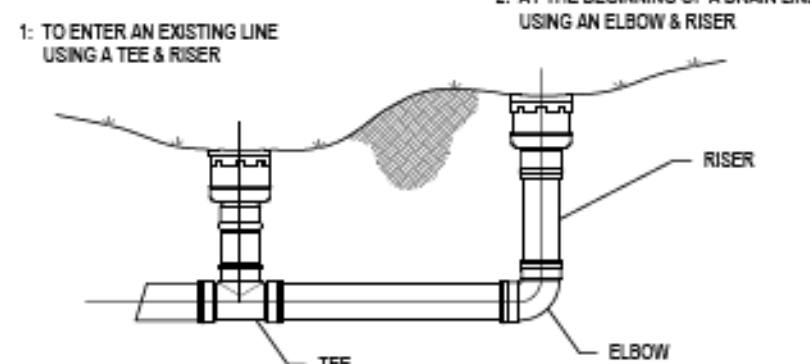


BURNET CITY HALL  
**DRAINAGE  
 DETAILS**

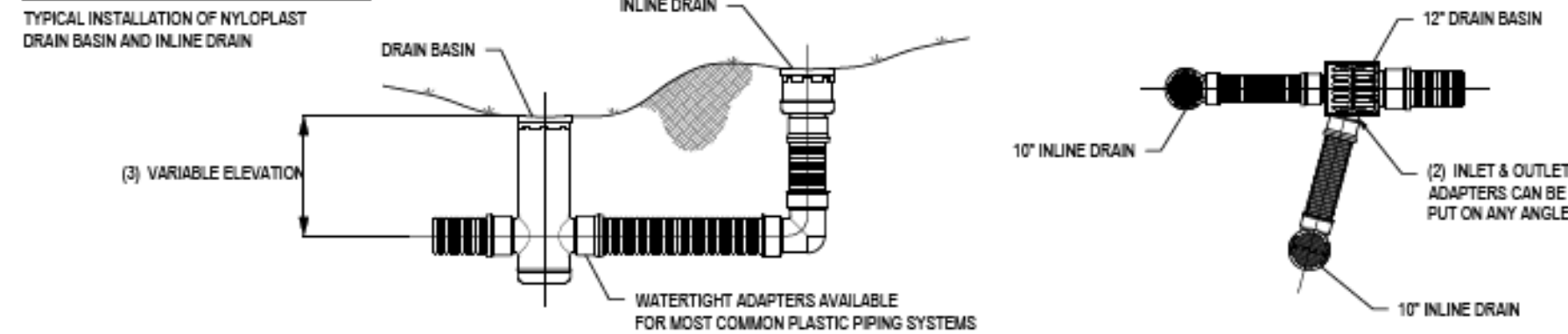
SHEET NO.  
**C5.5**

WHEN ARE INLINE DRAINS USED?

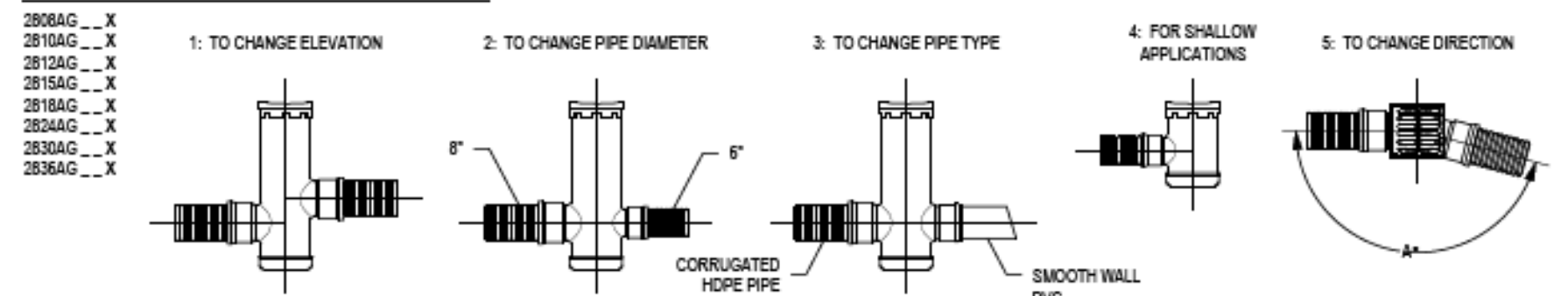
- 278AG...X
- 2710AG...X
- 2712AG...X
- 2715AG...X
- 2718AG...X
- 2724AG...X
- 2736AG...X



TYPICAL INSTALLATIONS



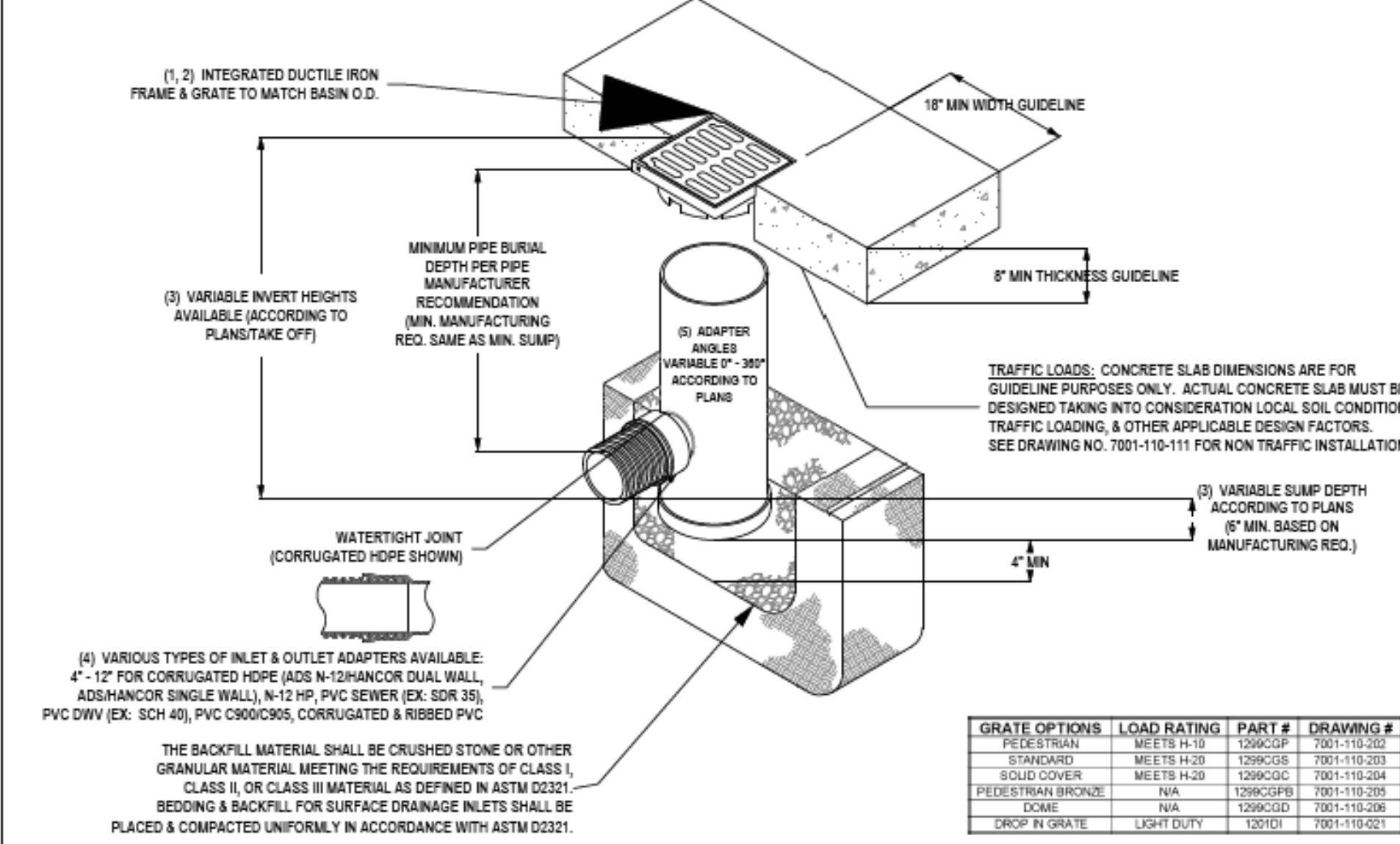
WHEN ARE DRAIN BASINS USED?



- STRUCTURES & ADAPTERS AVAILABLE IN SIZES 8" - 36"
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360° TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS (SEE DRAWING NO. 7001-110-02)
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 8" DUE TO SHIPPING RESTRICTIONS (SEE DRAWING NO. 7001-110-05)
- REDUCING CONES DOWN TO 3" DIAMETER WILL BE REQUIRED FOR 36" DRAIN BASINS.



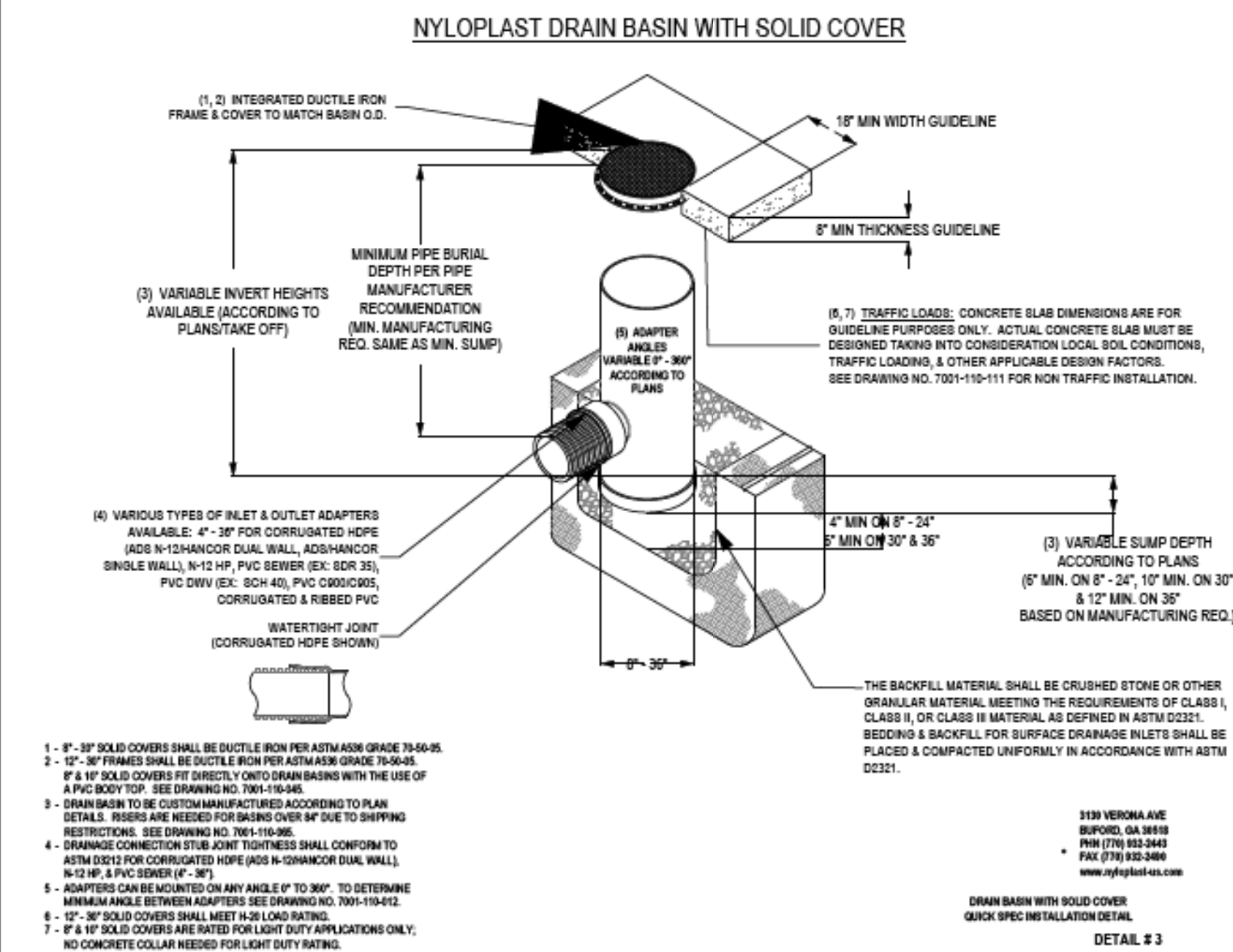
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- GRATE/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05, WITH THE EXCEPTION OF THE BRONZE GRATE.
- FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 8" DUE TO SHIPPING RESTRICTIONS. (SEE DRAWING NO. 7001-110-05)
- DRAINAGE CONNECTION STUD JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, N-12 HP, & PVC) SEWER.
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-02.

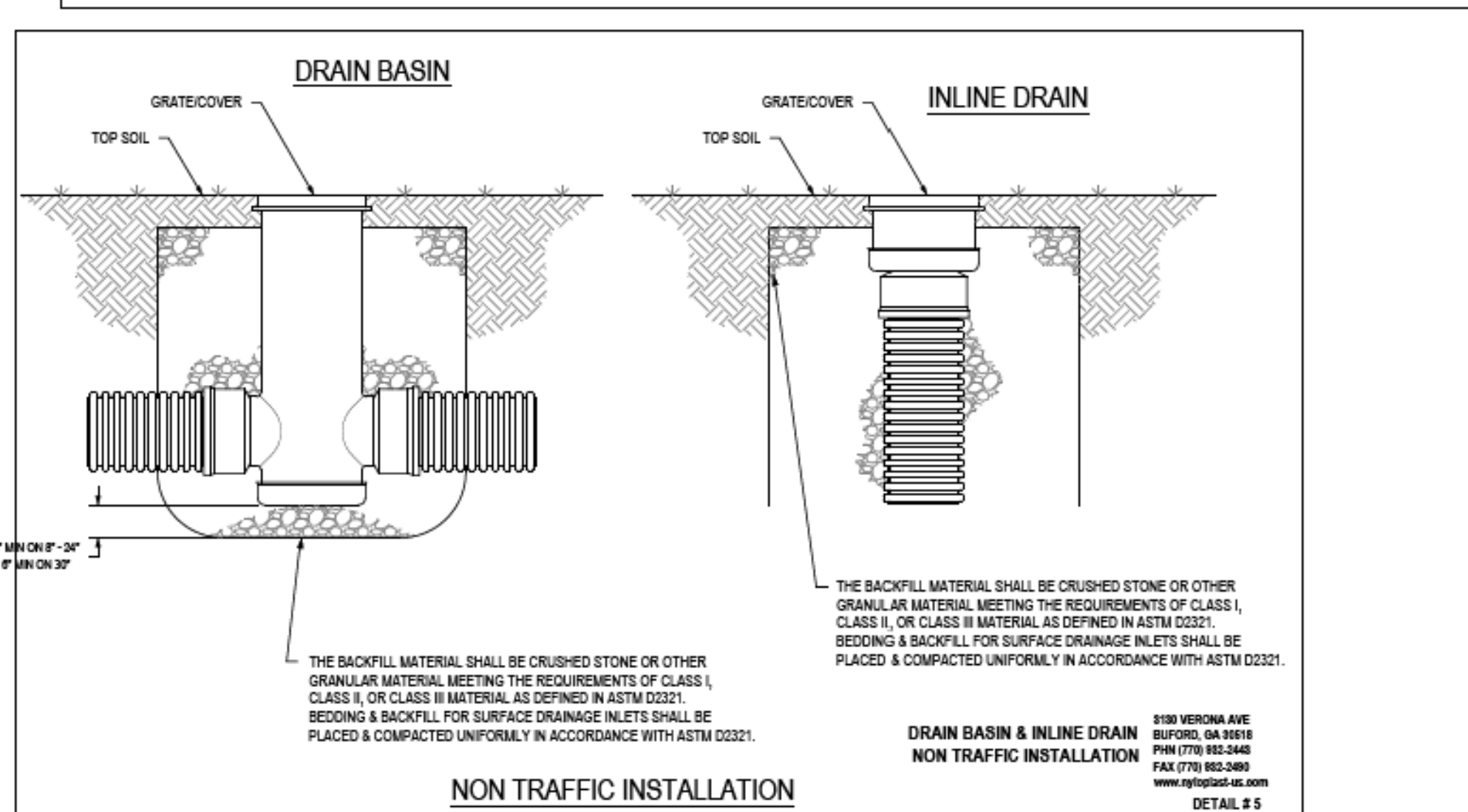
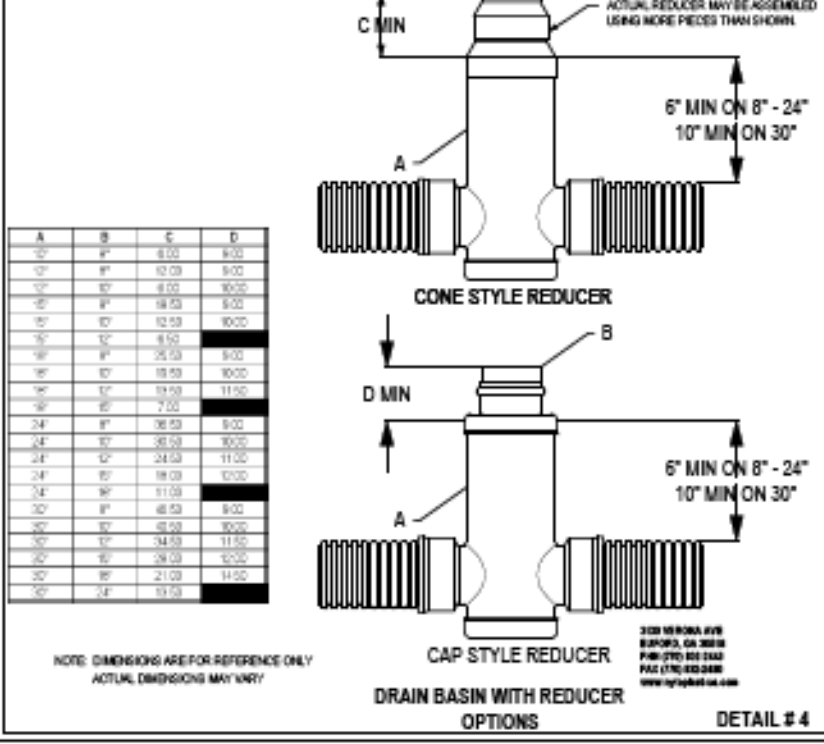
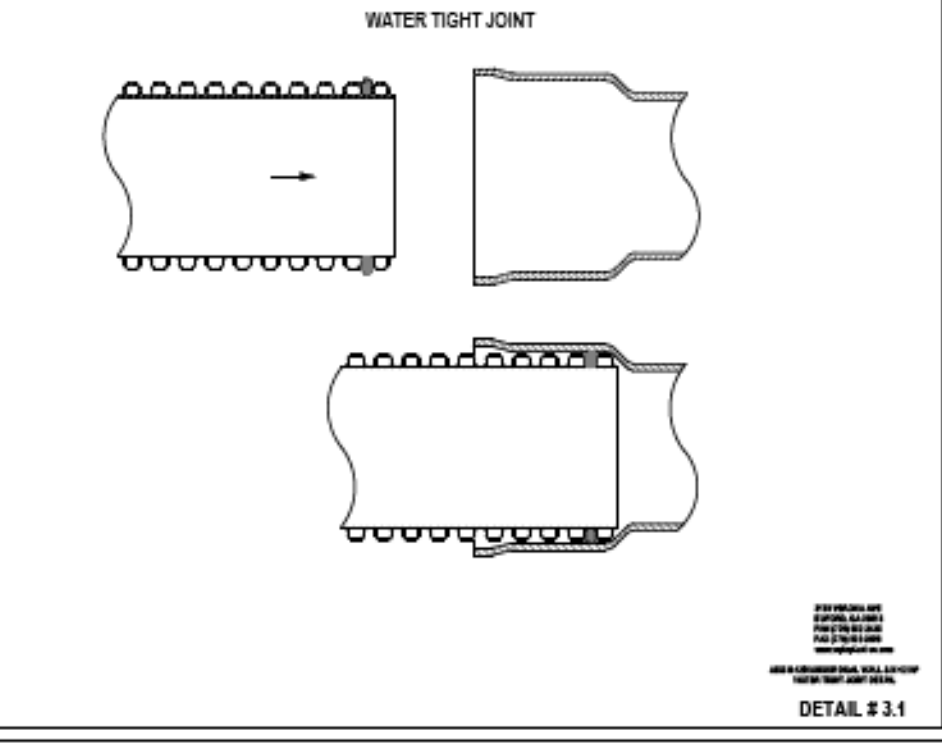
GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-19	1299CGP	7001-110-032
STANDARD	MEETS H-20	1299CGE	7001-110-033
SOLID COVER	MEETS H-20	1299CGC	7001-110-034
PEDESTRIAN BRONZE	N/A	1299CGPB	7001-110-035
DNRE	N/A	1299CGD	7001-110-036
DROP IN GRATE	LIGHT DUTY	1299G	7001-110-021

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- 1" - 3" SOLID COVERS SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- 12" - 36" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05
- IF A 12" - 36" SOLID COVER IS DIRECTLY OVER A DRAIN BASIN WITH THE USE OF A PVC BODY TOP, SEE DRAWING NO. 7001-110-046
- DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 8" DUE TO SHIPPING RESTRICTIONS. (SEE DRAWING NO. 7001-110-05)
- DRAINAGE CONNECTION STUD JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL, N-12 HP, & PVC) SEWER (F - 3)
- ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-02
- IF A 12" - 36" SOLID COVER IS USED FOR LIGHT DUTY APPLICATIONS ONLY, NO CONCRETE COLLAR NEEDED FOR LIGHT DUTY RATINGS.

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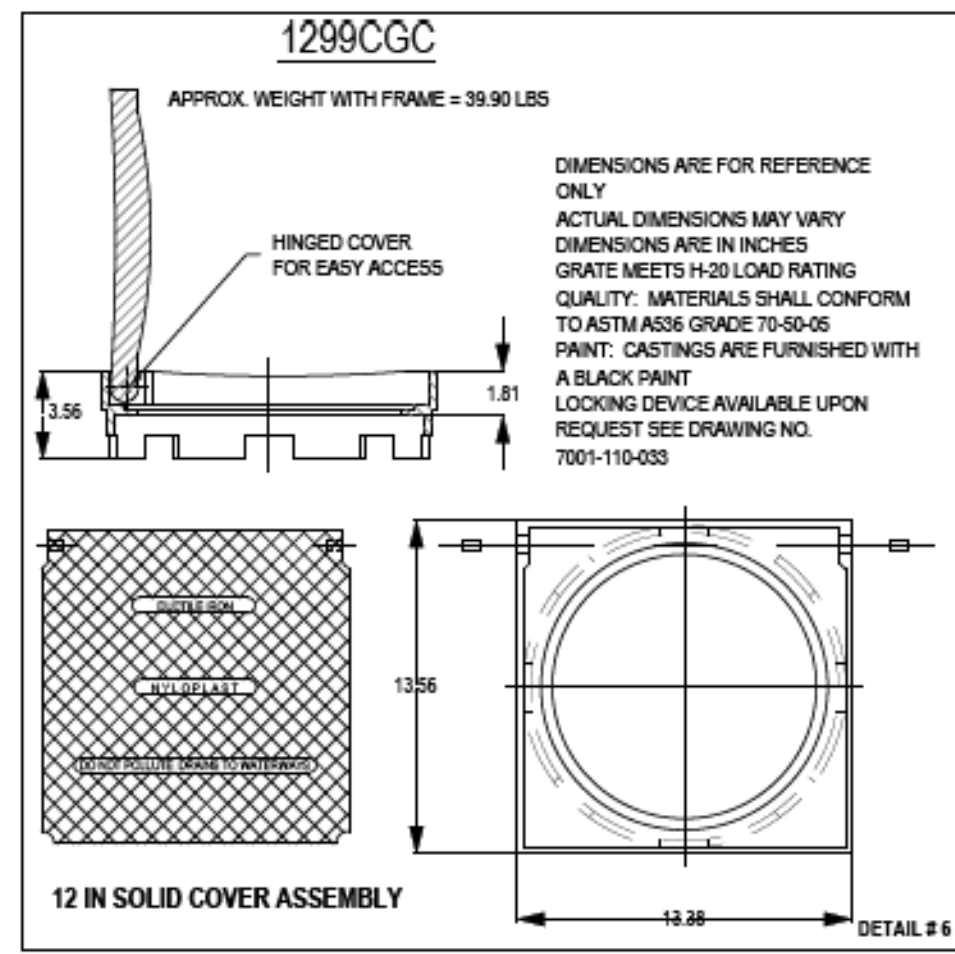
NON TRAFFIC INSTALLATION  
 Section 2721  
 Engineered Surface Drainage Products

**GENERAL**  
 PVC surface drainage inlets shall include the drain basin type as indicated on the contract drawing and referenced within the contract specifications. The ductile iron grates for each of these fittings are to be considered an integral part of the surface drainage inlet and shall be furnished by the same manufacturer. The surface drainage inlets shall be as manufactured by Nyloplast a division of Advanced Drainage Systems, Inc., or prior approved equal.

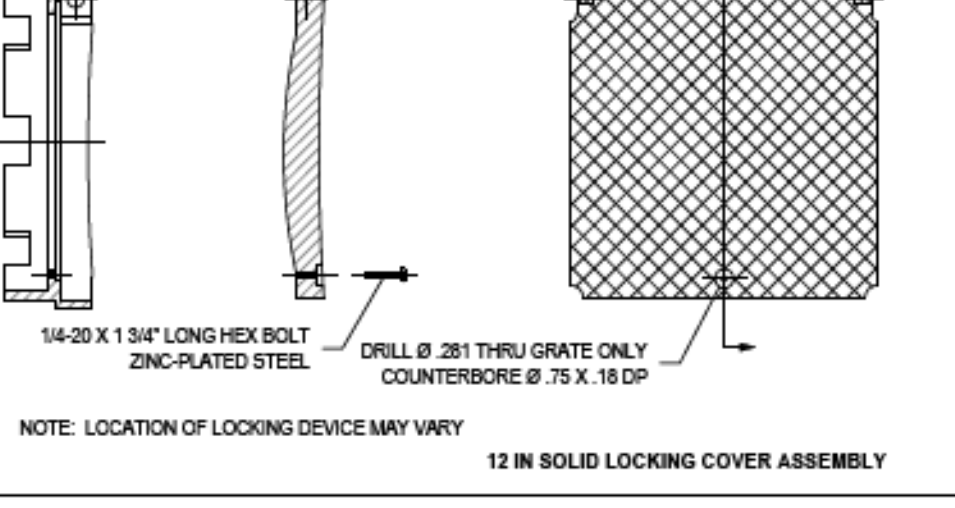
**MATERIALS**  
 The drain basins required for this contract shall be manufactured from PVC pipe stock, utilizing a thermoforming process to reform the pipe stock to the specified configuration. The drainage pipe connection stubs shall be manufactured from PVC pipe stock and formed to provide a watertight connection with the specified pipe system. This joint tightness shall conform to ASTM D3212 for joints for drain and sewer plastic pipe using flexible elastomeric seals. The flexible elastomeric seals shall conform to ASTM F477. The pipe bell spigot shall be joined to the main body of the drain basin or catch basin. The raw material used to manufacture the pipe stock that is used to manufacture the main body and pipe stubs of the surface drainage inlets shall conform to ASTM D1784 cell class 12454.

The grates and frames furnished for all surface drainage inlets shall be ductile iron for structure sizes 8", 10", 12", 15", 18", 24", 30" and shall be made specifically for each basin so as to provide a round bottom flange that closely matches the diameter of the surface drainage inlet. Grates for drain basins shall be capable of supporting various wheel loads as specified by Nyloplast. 12" and 15" square grates will be hinged to the frame using pins. Ductile iron used in the manufacture of the castings shall conform to ASTM A536 grade 70-50-05. Grates and covers shall be provided painted black.

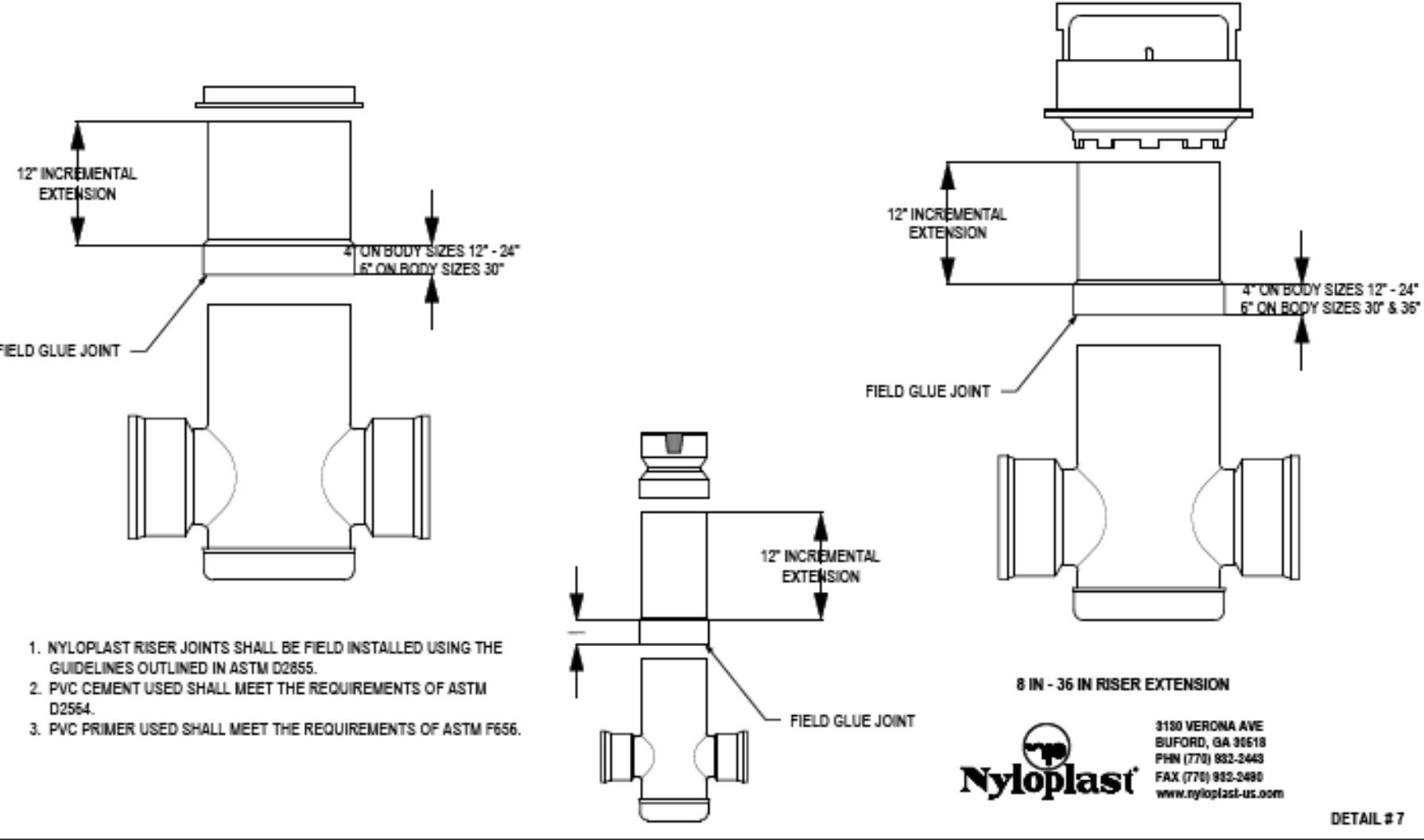
**INSTALLATION**  
 The specified PVC surface drainage inlet shall be installed using conventional flexible pipe backfill materials and procedures. The backfill material shall be crushed stone or other granular material meeting the requirements of class 1, class 2, or class 3 material as defined in ASTM D2321. Bedding and backfill for surface drainage inlets shall be well placed and compacted uniformly in accordance with ASTM D2321. The drain basin body will be cut at the time of the final grade. No brick, stone or concrete block will be required to set the grate to the final grade height. For load rated installations, a concrete slab shall be poured under and around the grate and frame. The concrete slab must be designed taking into consideration local soil conditions, traffic loading, and other applicable design factors. For other installation considerations such as migration of fines, ground water, and soft foundations refer to ASTM D2321 guidelines.



12 IN SOLID COVER ASSEMBLY  
 DETAIL # 6



12 IN SOLID LOCKING COVER ASSEMBLY  
 DETAIL # 8



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8 IN - 36 IN RISER EXTENSION  
 DETAIL # 7

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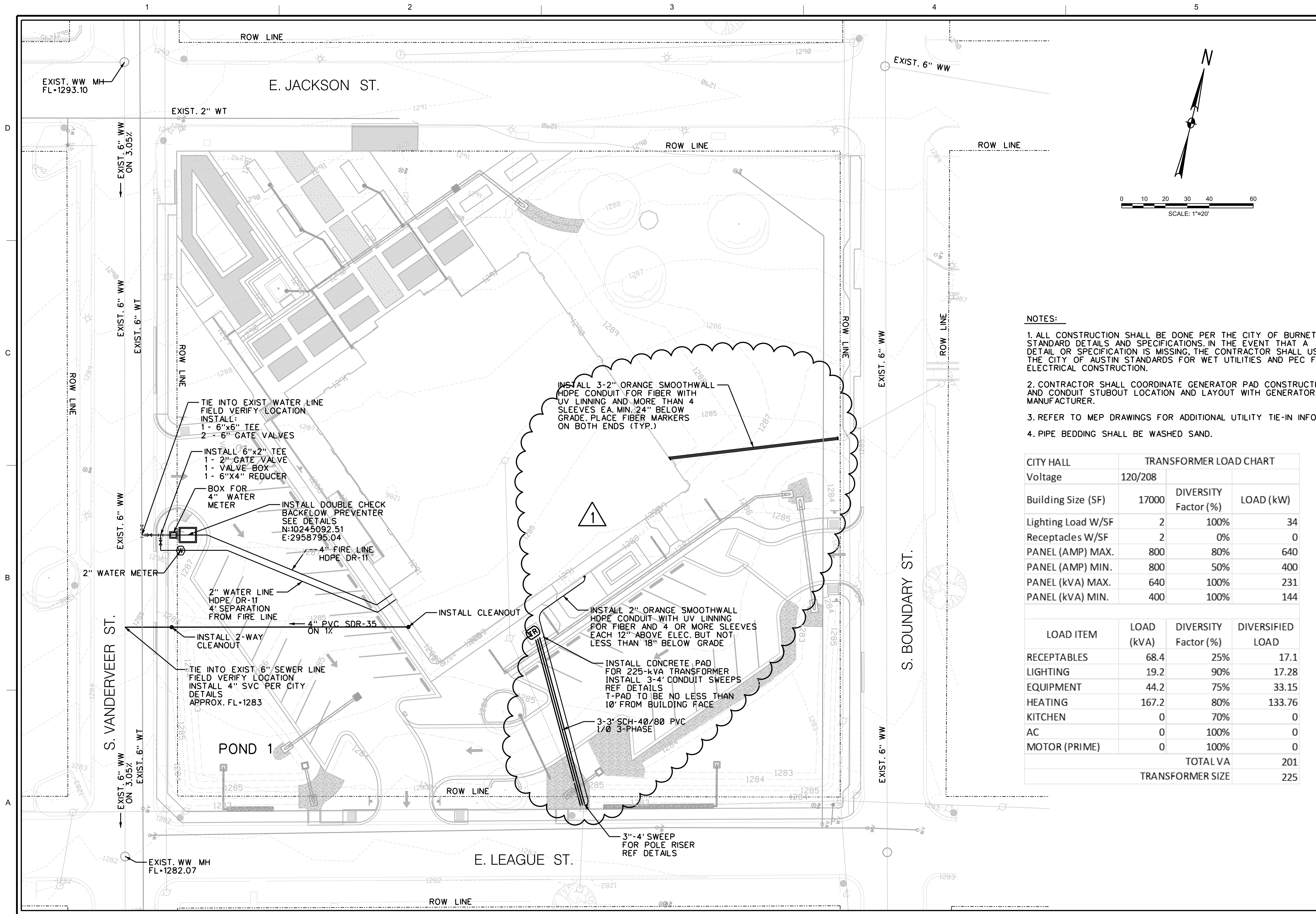
BURNET CITY HALL  
**DRAINAGE  
 DETAILS**

SHEET NO.  
**C5.6**



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STANDARD DETAILS  
 SCALE : N.T.S.



- NOTES:**
1. ALL CONSTRUCTION SHALL BE DONE PER THE CITY OF BURNET STANDARD DETAILS AND SPECIFICATIONS. IN THE EVENT THAT A DETAIL OR SPECIFICATION IS MISSING, THE CONTRACTOR SHALL USE THE CITY OF AUSTIN STANDARDS FOR WET UTILITIES AND PEC FOR ELECTRICAL CONSTRUCTION.
  2. CONTRACTOR SHALL COORDINATE GENERATOR PAD CONSTRUCTION AND CONDUIT STUBOUT LOCATION AND LAYOUT WITH GENERATOR MANUFACTURER.
  3. REFER TO MEP DRAWINGS FOR ADDITIONAL UTILITY TIE-IN INFO.
  4. PIPE BEDDING SHALL BE WASHED SAND.

CITY HALL		TRANSFORMER LOAD CHART	
Voltage	120/208	DIVERSITY	LOAD (kW)
Building Size (SF)	17000	Factor (%)	
Lighting Load W/SF	2	100%	34
Receptacles W/SF	2	0%	0
PANEL (AMP) MAX.	800	80%	640
PANEL (AMP) MIN.	800	50%	400
PANEL (kVA) MAX.	640	100%	231
PANEL (kVA) MIN.	400	100%	144

LOAD ITEM	LOAD (kVA)	DIVERSITY Factor (%)	DIVERSIFIED LOAD
RECEPTABLES	68.4	25%	17.1
LIGHTING	19.2	90%	17.28
EQUIPMENT	44.2	75%	33.15
HEATING	167.2	80%	133.76
KITCHEN	0	70%	0
AC	0	100%	0
MOTOR (PRIME)	0	100%	0
TOTAL VA			201
TRANSFORMER SIZE			225

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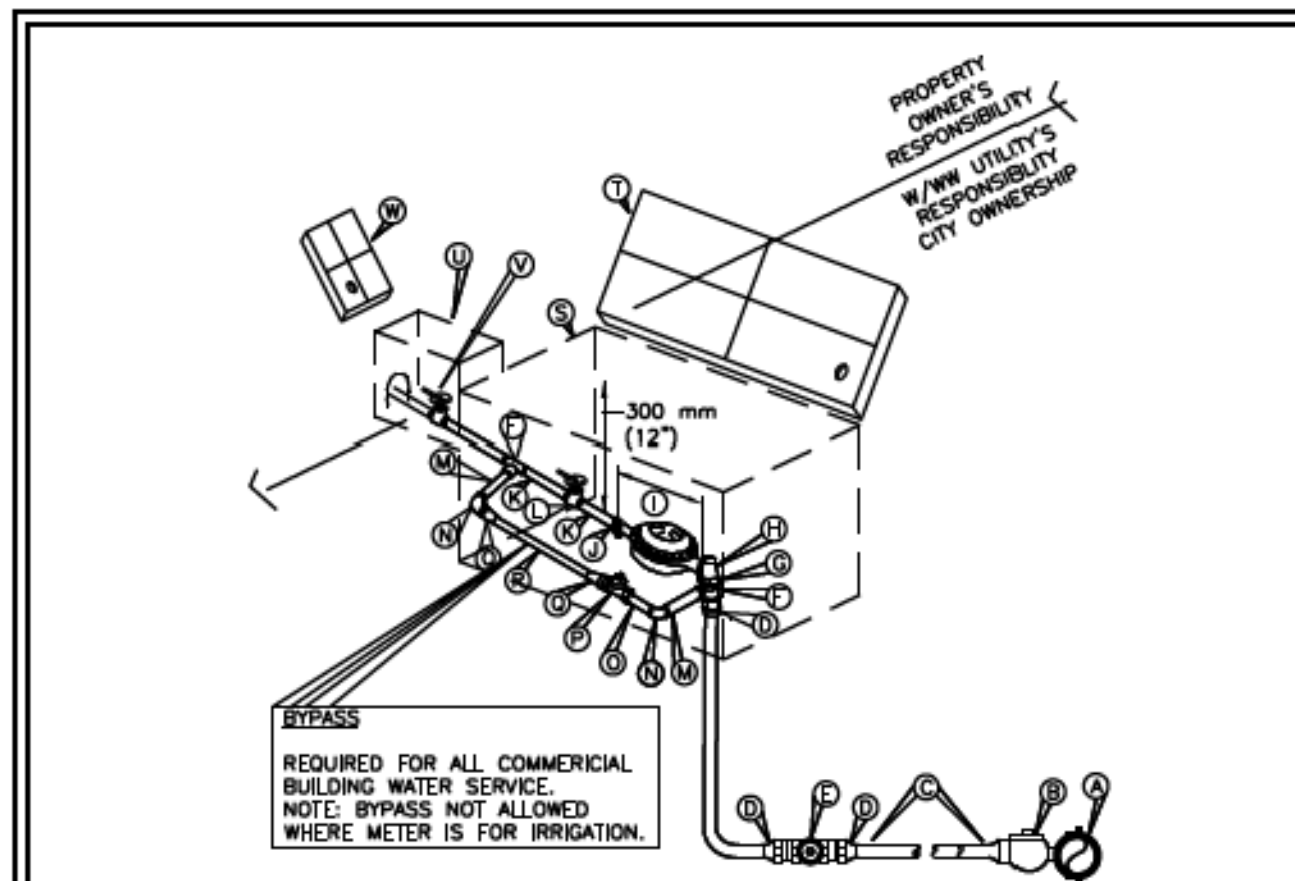


NO.	DESCRIPTION	DATE	ID



BURNET CITY HALL  
**UTILITY PLAN**

SHEET NO.  
**C6.0**



- NOTES:**
- SERVICE PIPE SHALL BE COPPER TUBE SIZE. IT SHALL BE ANNEALED SEAMLESS TYPE "K" COPPER TUBING MEETING THE CURRENT ASTM B88 STANDARD WITH NO SWEAT OR SOLDERED JOINTS.
  - SERVICE SADDLE SHALL BE WRAPPED COMPLETELY WITH 0.2 mm (8 MIL) POLYETHYLENE FILM.
  - TOP OF BOXES SHOULD BE 25 mm (1") ABOVE GROUND OR FLUSH WITH PAVEMENT SURFACE.
  - PIPING AND TUBING IN STREET RIGHT-OF-WAY SHALL BE BEDDED IN GRANULAR MATERIALS.
  - BOX MUST BE BEHIND CURB NOT TO PROPERTY LINE OR EASEMENT AND OUT OF SIDEWALK AND OUT OF VEHICULAR TRAFFIC AREA.
  - IF POLYETHYLENE TUBING IS USED, COMPRESSION FITTING REQUIRED WITH STEEL PIPE STIFFNER INSERT.
- NOTES:**
- DRAWING NOT TO SCALE FOR CLARIFICATION OF DIMENSIONS.
  - ADAPTED FROM CITY OF AUSTIN 5205-13.

SCALE: NOT TO SCALE

**Marble Falls TEXAS**

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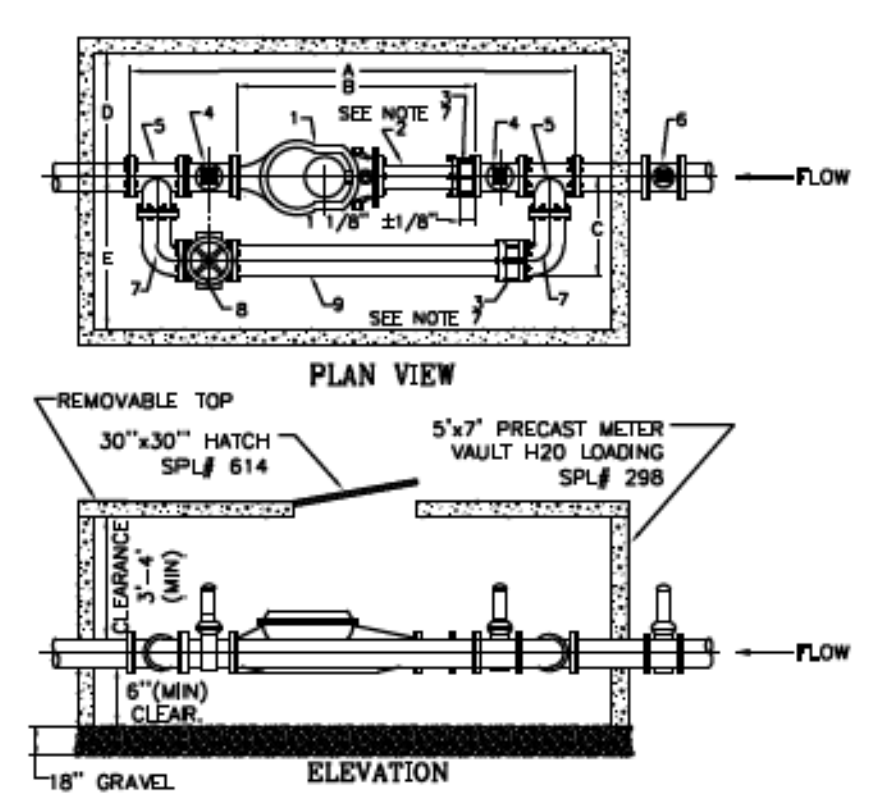
ENGINEER'S NAME: ERIC BELAJ PE# 107148 Date: May 31, 2017

SECTION: **WATER**

DETAIL NO.: **WT-9**

TITLE: **SINGLE 1.5" TO 2" SERVICE**

MARBLE FALLS  
800 THIRD STREET  
MARBLE FALLS, TX 76654  
PH (830) 693-6737



No.	NAME	Length
A	OVERALL LENGTH	79"
B	METER + NIPPLE + FCA	34 1/2"
C	CENTER OF MAINLINE TO OUTSIDE OF BYPASS	17 1/2"
D	CENTERLINE OF MAINLINE TO INSIDE OF VAULT	30"
E	CENTERLINE OF MAINLINE TO INSIDE OF VAULT	30"

- NOTE:**
- DRAWING NOT TO SCALE FOR CLARIFICATION
  - ADAPTED FROM CITY OF AUSTIN 520-158

SCALE: NOT TO SCALE

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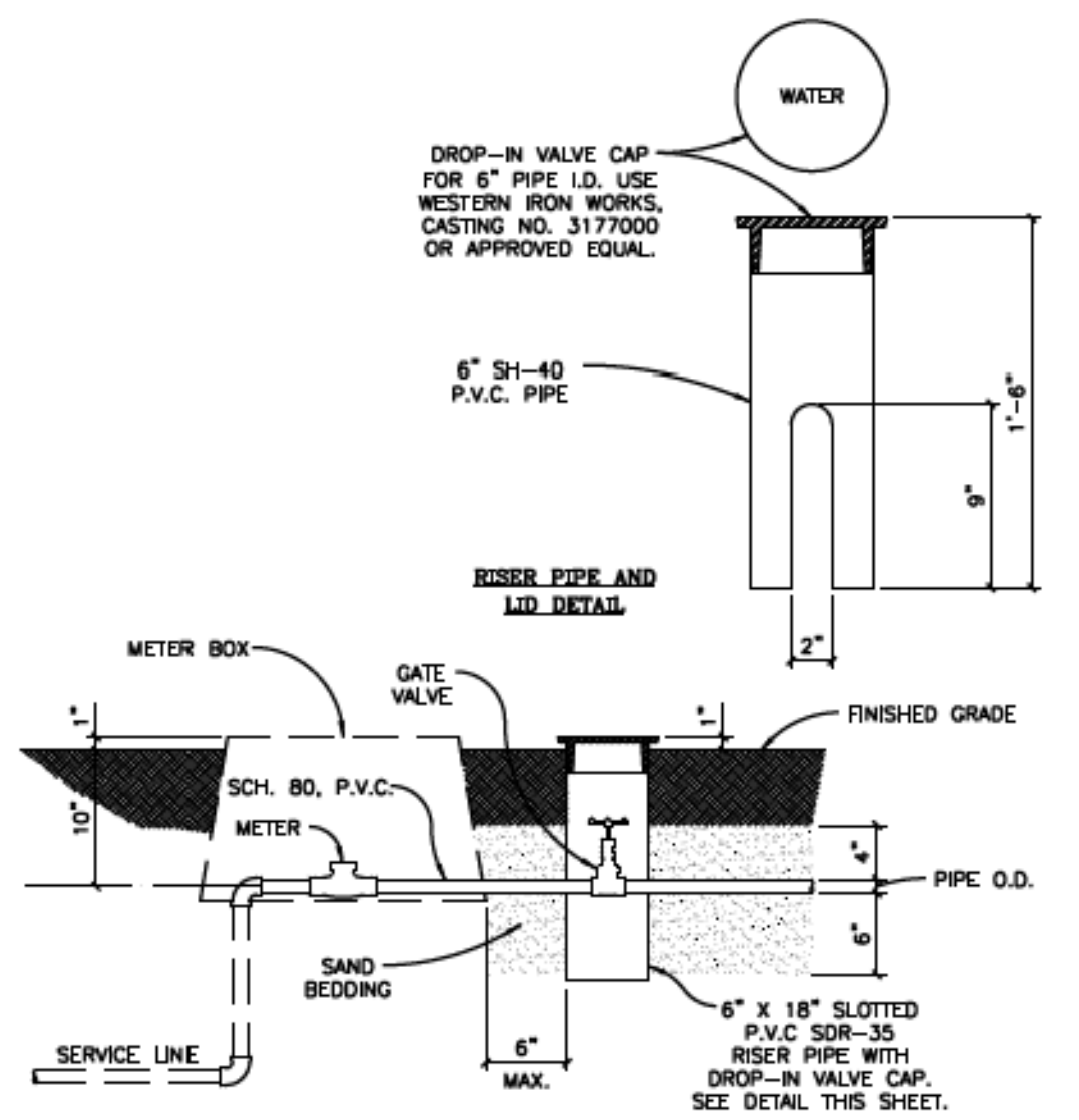
ENGINEER'S NAME: ERIC BELAJ PE# 107148 Date: May 31, 2017

SECTION: **WATER**

DETAIL NO.: **WT-12**

TITLE: **4" COMPOUND METER (C.O.F. 2)**

MARBLE FALLS  
800 THIRD STREET  
MARBLE FALLS, TX 76654  
PH (830) 693-6737



- NOTES:**
- GATE VALVE SHALL BE A HAMMOND 1B645, CLASS 125, BRONZE GATE, SCREWED BONNET, NON-RISING STEM, SOLD WEDGE DISC WITH THREADED ENDS OR APPROVED EQUAL.
  - DROP-IN VALVE CAP SHALL BE CAST WITH THE WORD "WATER" ON TOP.
  - USE SCHEDULE 80, M.I.P. ADAPTER AS REQUIRED.

SCALE: NOT TO SCALE

**Marble Falls TEXAS**

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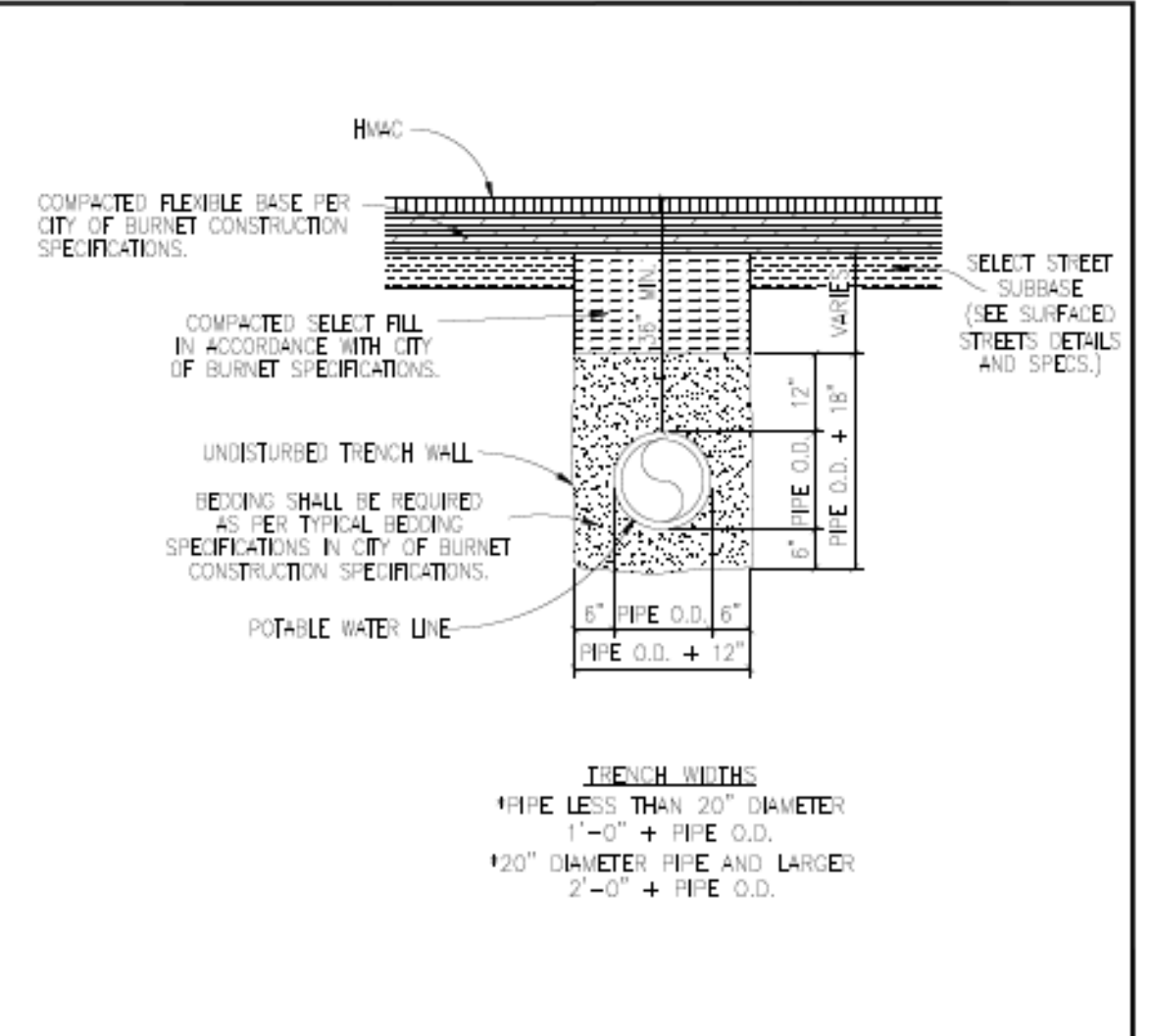
ENGINEER'S NAME: ERIC BELAJ PE# 107148 Date: May 31, 2017

SECTION: **WATER**

DETAIL NO.: **WT-16**

TITLE: **SERVICE CUT-OFF SECTION**

MARBLE FALLS  
800 THIRD STREET  
MARBLE FALLS, TX 76654  
PH (830) 693-6737



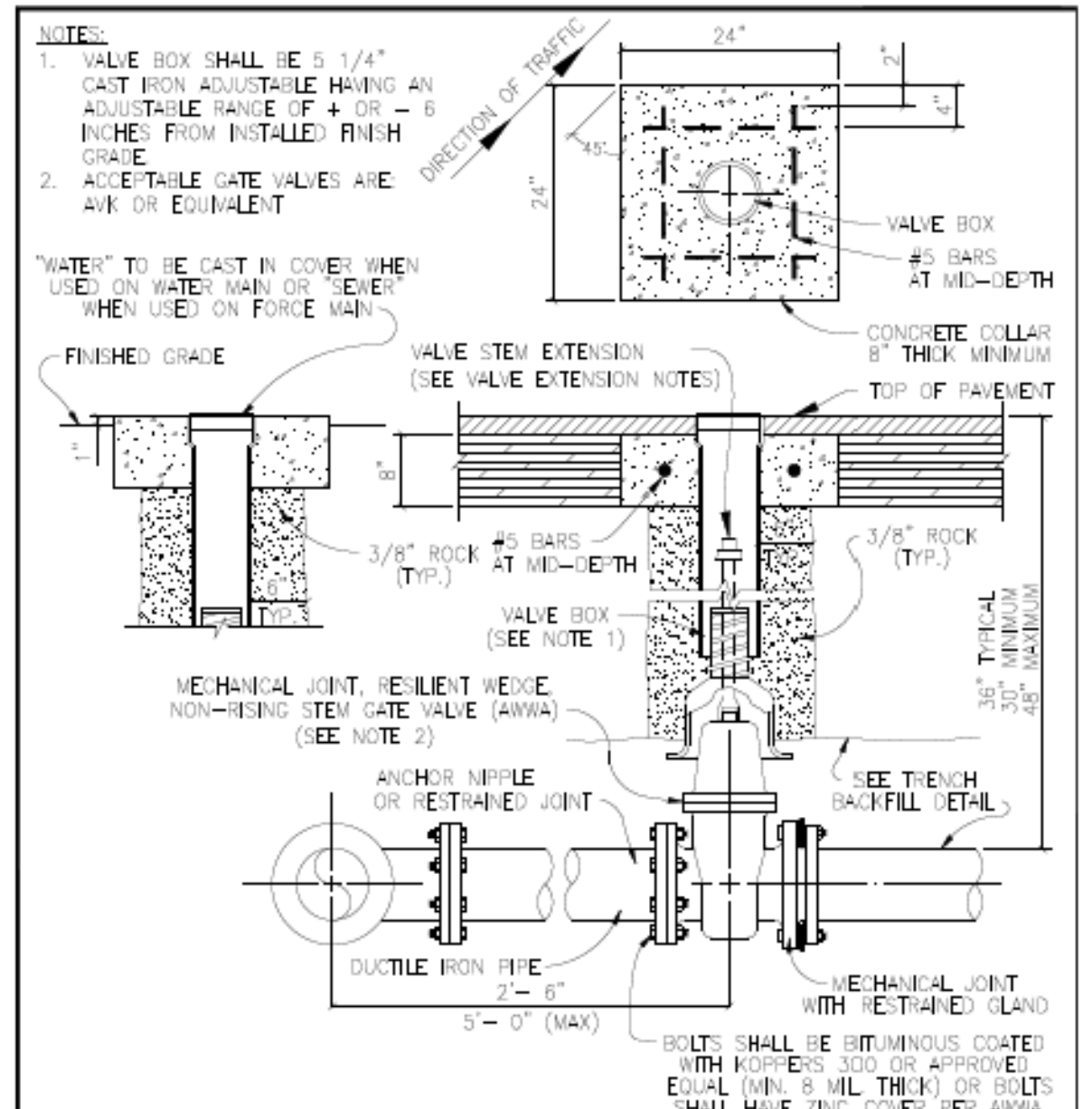
- NOTES:**
- DENSITY TESTS SHALL BE TAKEN IN ACCORDANCE WITH THE CITY OF BURNET CONSTRUCTION SPECIFICATIONS AND STANDARDS.
  - CONTRACTOR OR ENGINEER MAY USE FLOWABLE BACKFILL AS AN ALTERNATE BACKFILL MATERIAL.

**CITY OF BURNET**  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: STAFF DATE: 08/2020

TRENCH AND EMBEDMENT STANDARD UNDER PROPOSED ROADWAYS

DETAIL NUMBER: **W-04**



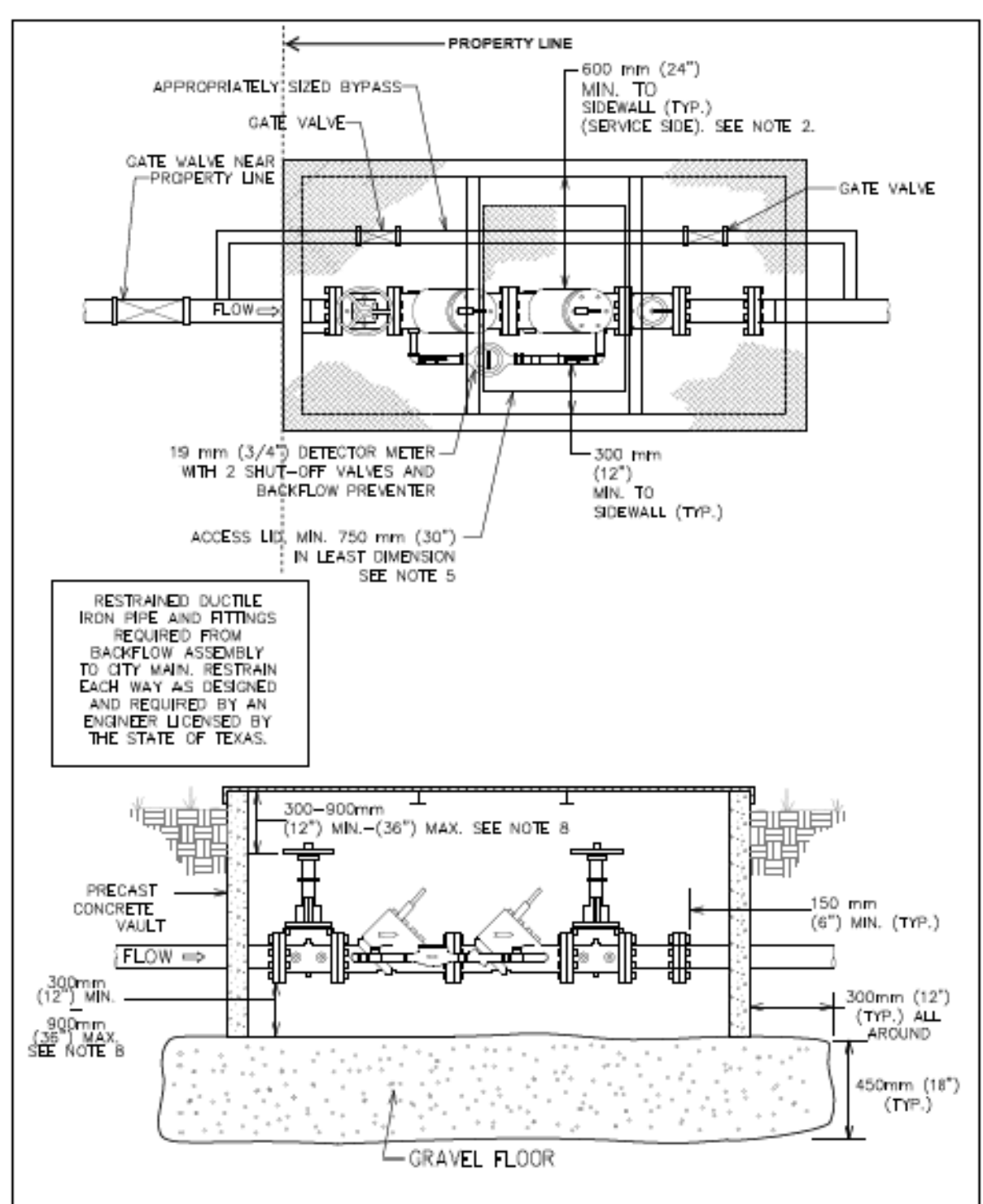
- NOTES:**
- VALVE BOX SHALL BE 5 1/4 inch CAST IRON ADJUSTABLE HAVING AN ADJUSTABLE RANGE OF + OR - 6 INCHES FROM INSTALLED FINISH GRADE.
  - ACCEPTABLE GATE VALVES ARE AWWA OR EQUIVALENT.
- "WATER" TO BE CAST IN COVER WHEN USED ON WATER MAIN OR SEWER WHEN USED ON FORCE MAIN.
- VALVE EXTENSION NOTES:**
- WELD SOCKET 2 1/2 inch x 2 inch (E.P. TO 1 1/2 inch SCH. 40 CARBON STEEL ROUND STEM EXTENSION, FITTED ON OPERATING NUT. [SCH. 80 FOR LENGTH OVER 10 inch.]
  - VALVE CASTING SHALL BE 6 inch DI PIPE WITH HELL OR COLLAR CENTERED OVER VALVE BOOT.
  - NUT AT TOP OF VALVE EXTENSION ROD SHALL BE SQUARE 2 inch LONG WELDED TO TOP OF ROD.
  - VALVE STEM EXTENSIONS ARE REQUIRED ON ALL VALVES THAT EXCEED 3 inch DEEP FROM FINISHED GRADE. VALVE EXTENSIONS SHALL BE PLACED SUCH THAT THE EXTENSION NUT IS BETWEEN 12 inch AND 18 inch MAX. BELOW FINISHED GRADE.

**CITY OF BURNET**  
DEPARTMENT OF PUBLIC WORKS

APPROVED BY: STAFF DATE: 08/2020

TYPICAL VALVE SETTING

DETAIL NUMBER: **W-11**



**CITY OF CEDAR PARK**  
STANDARD WATER LINE INSTALLATION WITHOUT MASTER METER

APPROVED BY: STAFF DATE: 08/2020

ENGINEERING DEPARTMENT

CITY OF BURNET  
1001 BUCHANAN DR. SUITE 04  
BURNET, TX 78611  
PH: (512) 756-6093



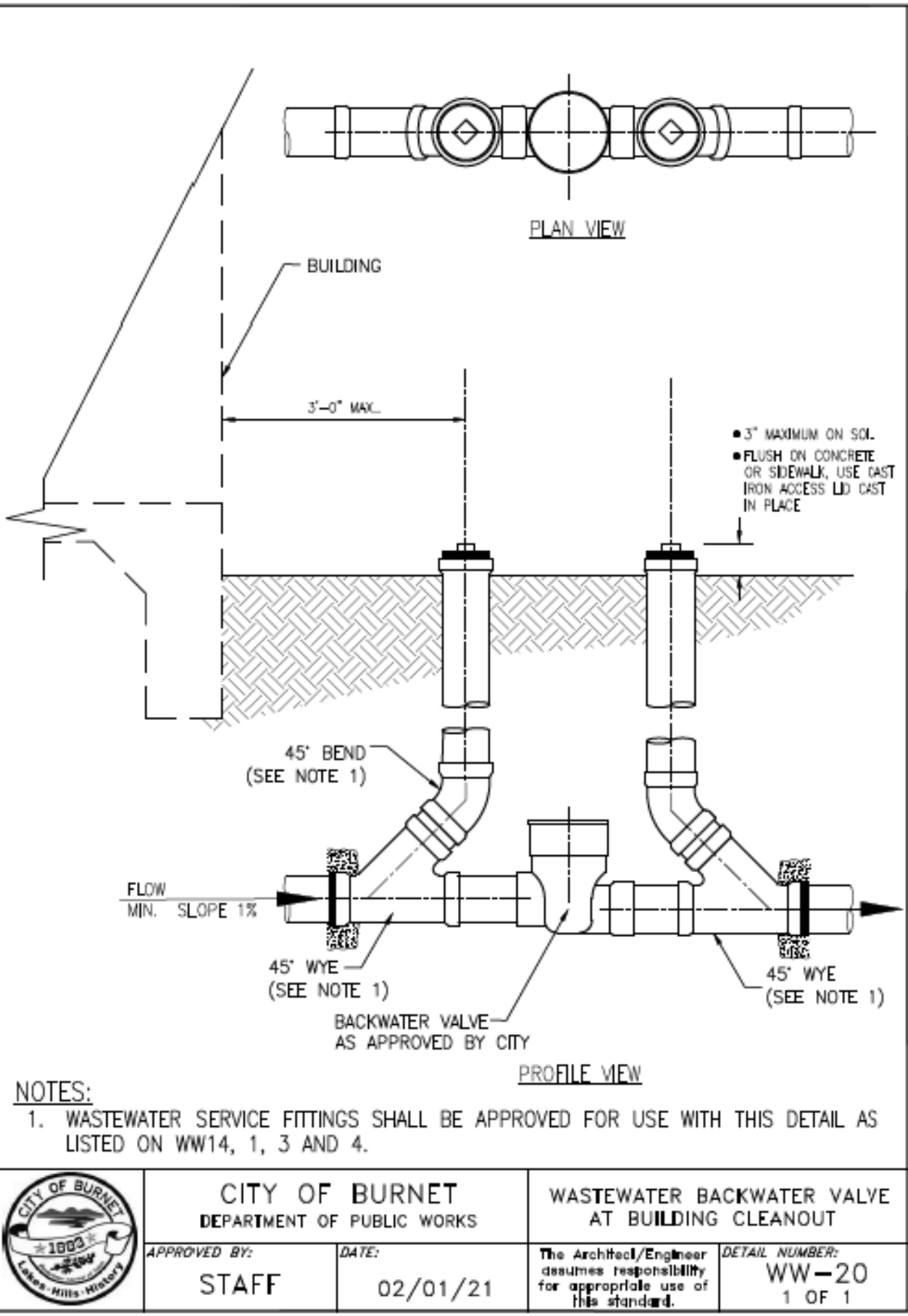
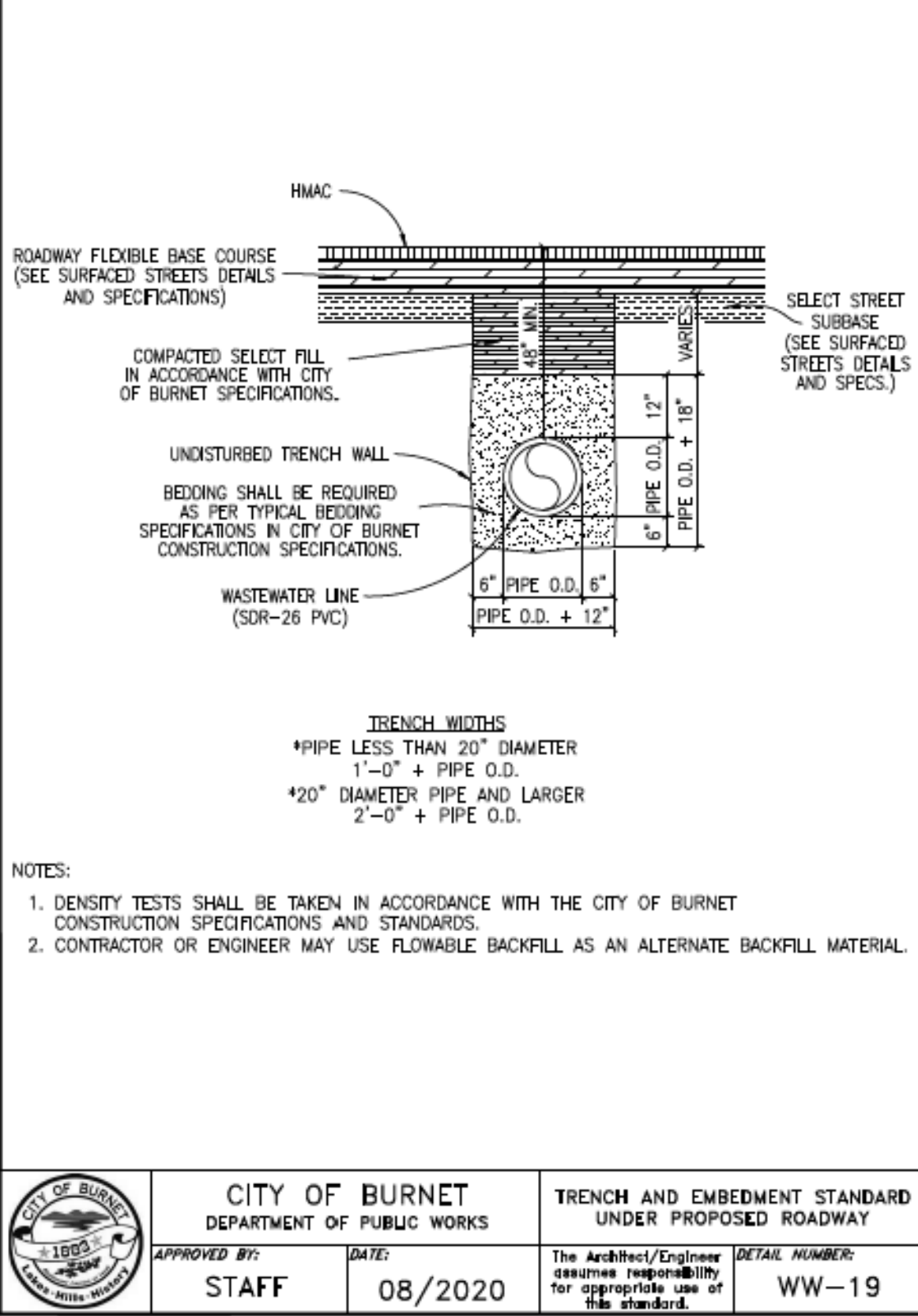
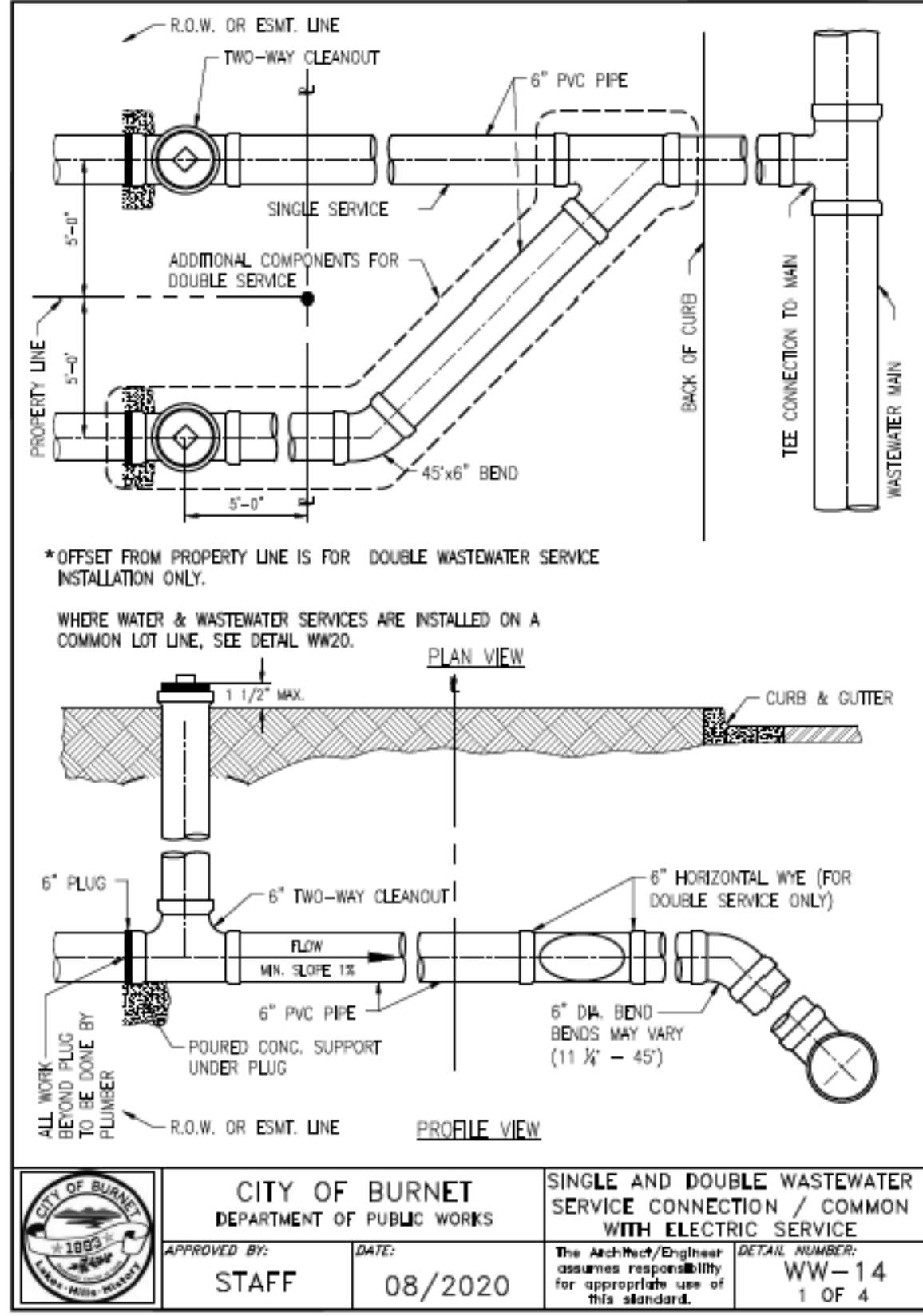
NO.	DESCRIPTION	DATE	ID
9/19/23 EB	CHANGES IN UTILITIES AND DETAILS		



BURNET CITY HALL

**WATER DETAILS**

SHEET NO.  
**C6.1**



CITY OF BURNET  
1001 BUCHANAN DR. SUITE 04  
BURNET, TX 78611  
PH: (512) 756-6093



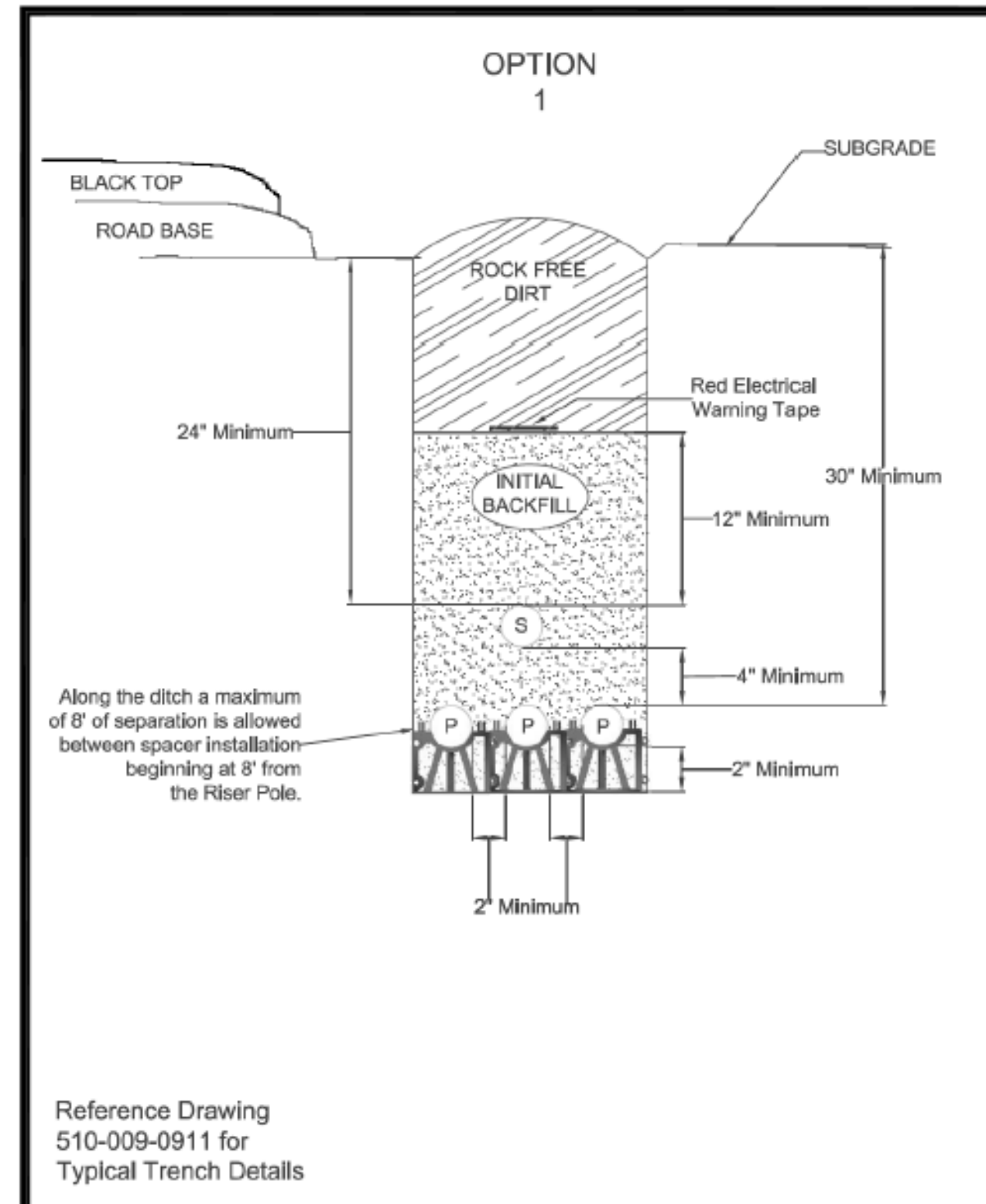
CHANGES IN UTILITIES AND DETAILS	NO.	DESCRIPTION	DATE	ID



BURNET CITY HALL  
**SEWER DETAILS**

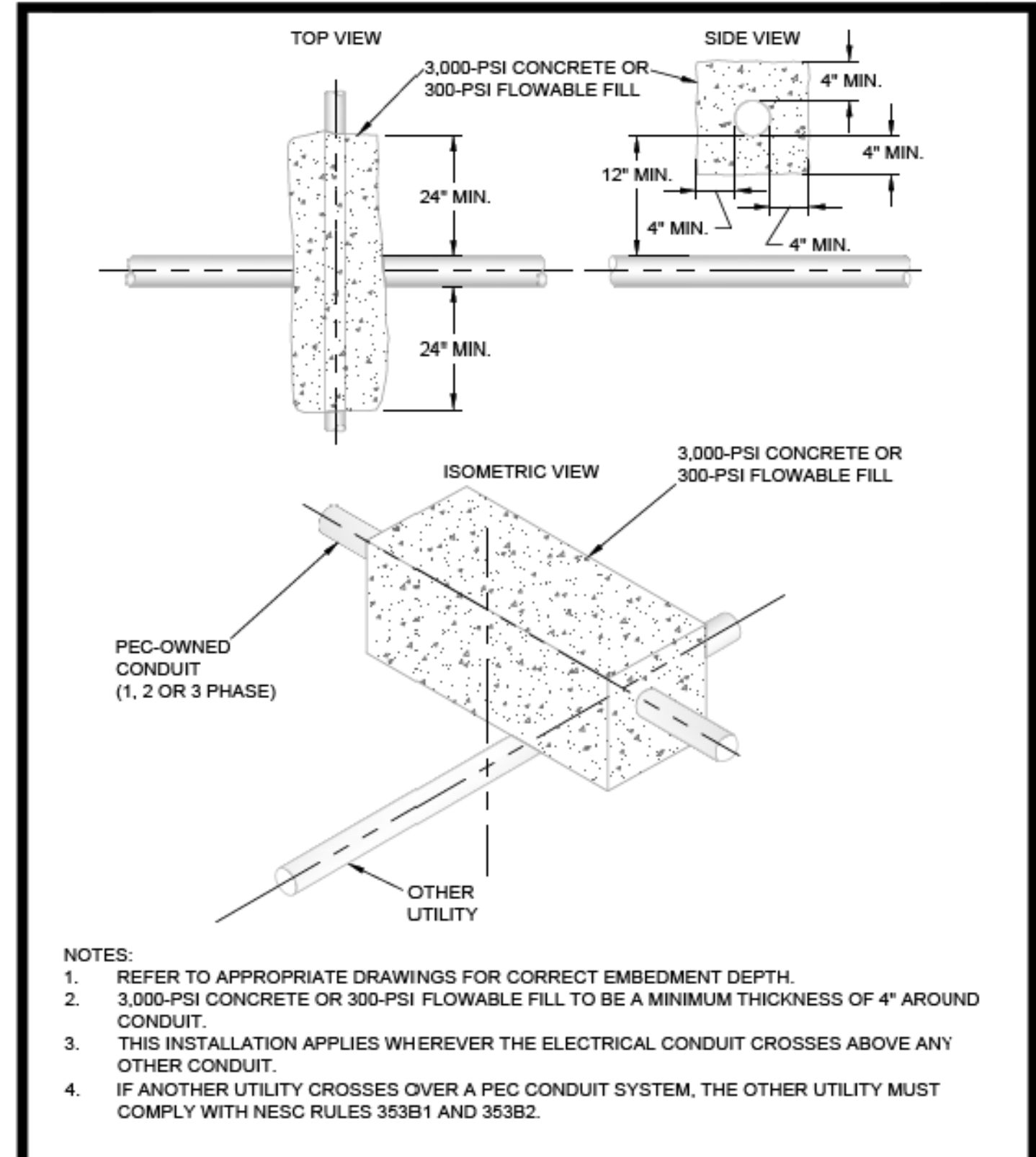
SHEET NO.  
C6.2





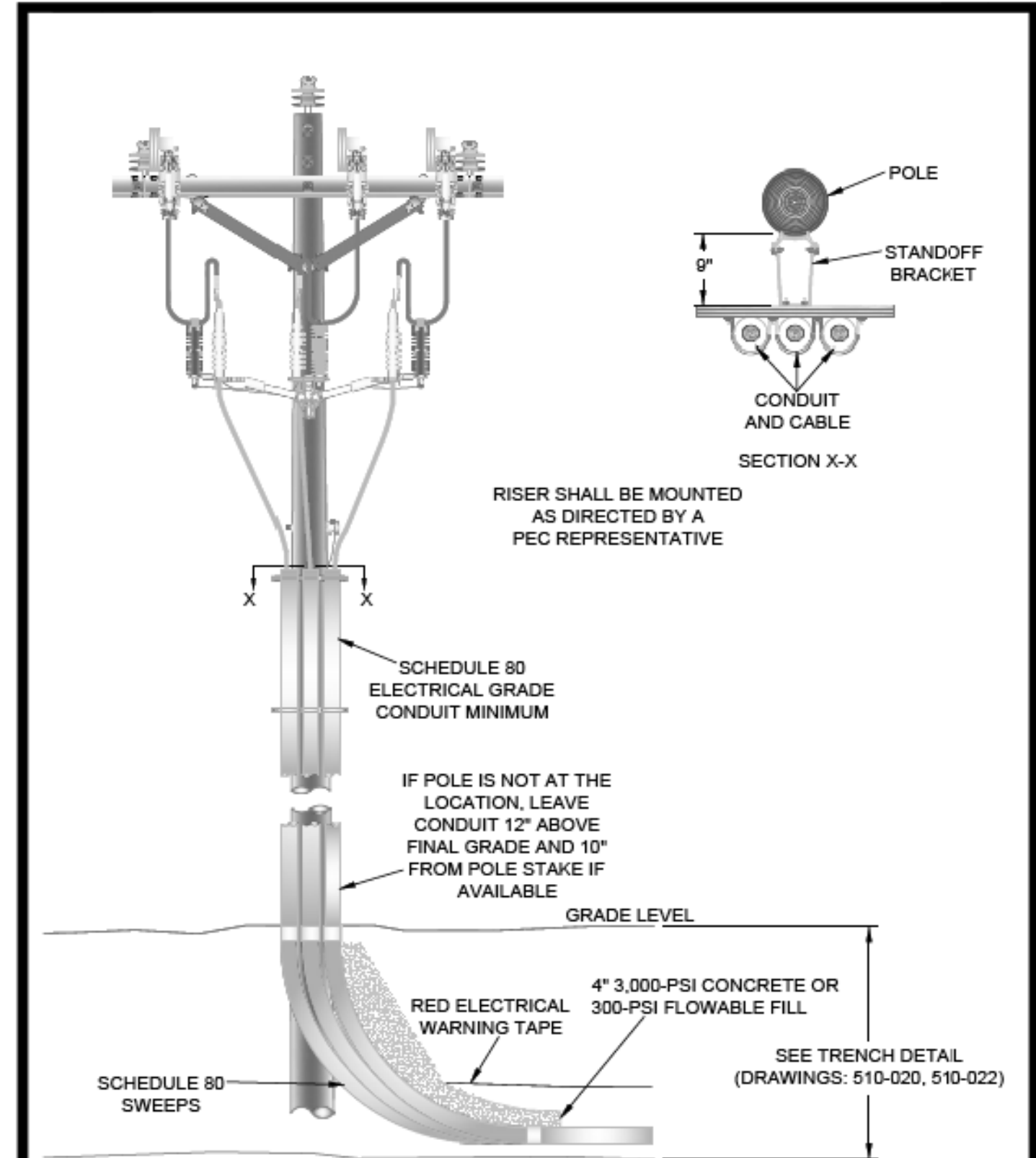
Reference Drawing  
510-009-0911 for  
Typical Trench Details

<b>PEC</b> Pedernales Electric Cooperative, Inc.	<b>3Ø Conduit Arrangement Electric Only Primary and Secondary</b>			
	drawn: JBS	approved: MJB	date: December 12, 2011	drawing number: 510-020-0911

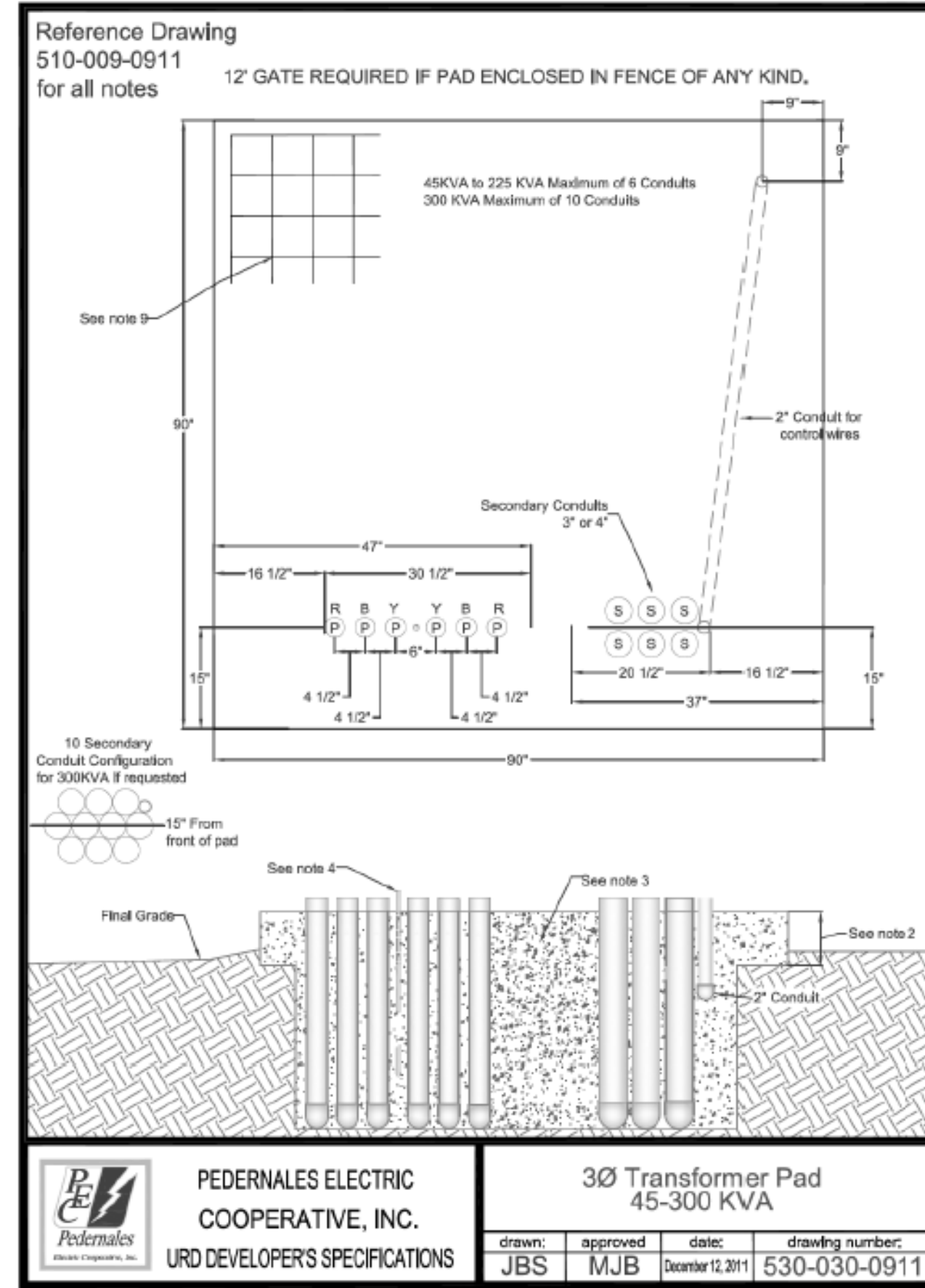


NOTES:  
1. REFER TO APPROPRIATE DRAWINGS FOR CORRECT EMBEDMENT DEPTH.  
2. 3,000-PSI CONCRETE OR 300-PSI FLOWABLE FILL TO BE A MINIMUM THICKNESS OF 4\"/>

<b>PEC</b>	<b>UNDERGROUND INSTALLATION SPECIFICATIONS</b>		<b>CONDUIT CROSSING DETAIL FOR PEC ABOVE OTHER UTILITIES</b>	
	drawn: RWC	approved: MMG	date: 07/09/2020	drawing number: 510-024



<b>PEC</b>	<b>UNDERGROUND INSTALLATION SPECIFICATIONS</b>		<b>3Ø RISER POLE USING STANDOFF BRACKETS</b>	
	drawn: RWC	approved: MMG	date: 07/09/2020	drawing number: 560-025



Reference Drawing  
510-009-0911  
for all notes

<b>PEC</b> Pedernales Electric Cooperative, Inc.	<b>3Ø Transformer Pad 45-300 KVA</b>			
	drawn: JBS	approved: MJB	date: December 12, 2011	drawing number: 530-030-0911

**Typical All Pads**

- Require 3" conduit (unless otherwise specified by PEC) with bell-end fittings to extend 1 1/2" to 2" above pad.
- Pads must extend a minimum of 4" above final grade and 1 1/2" below final grade. All pads must be placed on a slope less than or equal to 3:1. If greater than 3:1, contractor must bring slope to required grade.
- All disturbed soil underneath pad must be replaced by concrete.
- All ground rods shall be 3/4" X 10' copper-clad with clamp and must extend 3" above top of pad.
- Wood float finish leaving pad square and level with no dips or crown.
- Contact PEC before pouring concrete and comply with the following instructions:
  - Pre-pour inspection: Check framing and layout of pad and conduit components.
  - Final inspection: Overall review of pad and conduits. Ensure bell ends are on conduit.

**Typical For Single-Phase Transformer, Combination, Sectionalizer, and Secondary Pads**

- Concrete to have minimum strength of 3,000 PSI.
- Steel reinforcing shall be 6" X 8" No. 10 wire mesh or 3/8" re-bar on 12" center to stop 1" from the sides.

**Typical For Three-Phase Transformer Pads**

- Concrete testing, 4,000 PSI; 4%-6% entrained air, 3/4" maximum-size aggregate.
- Steel reinforcement shall be 3/8" re-bar on 12" center to stop 1" from sides.
- Minimum concrete cover over reinforcing steel 2" unless noted.

**Typical Trench Details**

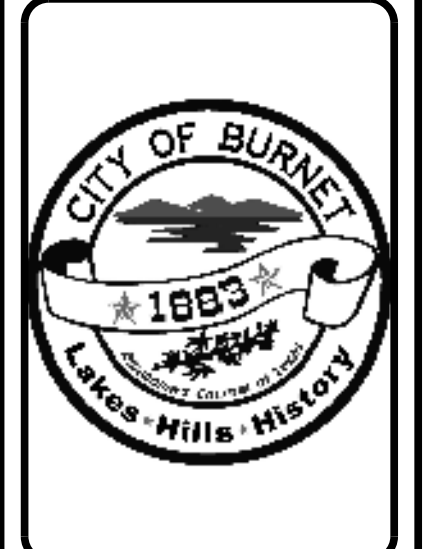
- Schedule 40 electrical grade PVC conduit. Schedule 80 electrical-grade conduit can be used in place of sand in secondary-only trenches.
- Initial backfill shall be manufactured or commercial sand. Minimum 3/8" pea gravel may be used for initial backfill in flood-prone areas.
- With PEC approval, minimum cover requirements may be reduced by six inches with every two inches of 3,000 PSI concrete poured directly onto conduit. *Contact PEC before pouring concrete*
- If any type of vault or pedestal for the underground electric is planned, then all other utilities should be routed around these facilities.
- For 2" and smaller waterlines, special permission must be granted by PEC. Water lines larger than 2" will not be allowed in PEC trench.
- Refer to drawings 510-023 and 510-025 for PEC specifications and trench details on gas joint trench installations.

<b>Legend</b> Typical in all drawings				
(P) Primary Conduit	(S) Secondary Conduit	(CW) Communications or Water	(G) Gas line	(AS) Alternate Secondary Conduit

REV | B | DATE | 07/23/2020 | REVISION | NOTE 4: 3/4" X 10' GROUND ROD WAS 5/8" X 8' | BY | RWC | CHK | SSS | APR | MMG

<b>PEC</b>	<b>UNDERGROUND INSTALLATION SPECIFICATIONS</b>		<b>TYPICAL NOTES REFERENCE PAGE</b>	
	drawn: RWC	approved: MMG	date: 07/23/2020	drawing number: 510-009

CITY OF BURNET  
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9/19/23 EB	CHANGES IN UTILITIES AND DETAILS	NO.	DESCRIPTION	DATE	ID



BURNET CITY HALL  
**ELECTRIC DETAILS**

SHEET NO.  
C6.3