

GENERAL NOTES:

- OWNER:
 - B2 CONTRACTING**
180 WALTER WAY #110
FAYETTEVILLE, GA 30214
CONTACT: BRANDON HARP
EMAIL: BHARP@B2CONTRACTING.COM
PHONE: (770) 789-2123
- ENGINEER:
 - HIGHLAND LAND PLANNING**
201 PROSPECT PARK, SUITE A
PEACHTREE CITY, GA 30269
CONTACT: REID K ALMAND, P.E.
EMAIL: REID.ALMAND@HIGHLANDLP.US
PHONE: (770) 631-0499
- SURVEYOR:
 - W.S. BODKIN SURVEYING, LLC**
315 CAASTLEWOOD RD
TYRONE, GA 30290
CONTACT: SCOTT BODKIN, R.L.S.
PHONE: (770) 312-5500
- ZONING: IHV, HEAVY INDUSTRIAL
- TOTAL SITE AREA = 8.31 +/- AC.
DISTURBED AREA = 3.90 AC.
IMPERVIOUS SURFACE CALCULATIONS:
IMPERVIOUS 0.76 AC., GRAVEL 1.38 AC.,
TOTAL IMPERVIOUS FOR WQV CALCULATIONS (GRAVEL @ 85%) 1.93 AC.
- LOT DIMENSION REQUIREMENTS PER CITY OF NEWNAN ZONING ORDINANCE:
 - MINIMUM LOT SIZE - 2 ACRES (87,120 SF)
 - FRONT SETBACK: MAJOR STREET = 40 / 100 FT, MINOR STREET = 40 / 65 FT
 - SIDE SETBACK: 30 FT
 - STREET SIDE SETBACK: MAJOR STREET = 40 / 100 FT, MINOR STREET = 40 / 65 FT
 - REAR SETBACK: 40 FT
 - MINIMUM BLDG LINE WIDTH: 200 FT
 - MINIMUM LOT FRONTAGE: 200 FT
 - MINIMUM LOT DEPTH: 200 FT
 - PRINCIPLE BUILDING HEIGHT: 35 FT
 - ACCESSORY BUILDING HEIGHT: 35 FT
 - MAXIMUM BUILDING COVERAGE 60% (LOT)
 - BASE/MAXIMUM FLOOR AREA RATIO: 0.30 / 0.50
 - DISTANCE BETWEEN BUILDINGS: 25 FT
- LANDSCAPE STRIP
10 FT PERIMETER
- VEHICLE STORAGE SUMMARY:
 - TOTAL REQUIRED: OFFICE: 1/ 250 SQ. FT. OF GFA = 6,400 SQ. FT. GFA = 26 SPACES
SHOP/WAREHOUSE: 0.25/1000 SQ. FT. = 4,000 SQ FT = 1 SPACES
TOTAL = 27 SPACES
 - TOTAL PROVIDED = 27 SPACES (1 HANDICAP SPACES)
- 24 HOUR CONTACT: BRANDON HARP, (770) 789-2123
- STATE WATERS ARE PRESENT ON THIS PROJECT SITE AS INDICATED, HOWEVER ARE NOT AFFECTED BY THIS DEVELOPMENT.
- WETLANDS WERE NOT IDENTIFIED WITHIN THE PROPERTY BOUNDARY.
- PROJECT SITE IS NOT LOCATED WITHIN A GROUND WATER RECHARGE AREA
- A PORTION OF THIS PROPERTY IS LOCATED WITHIN A FLOOD HAZARD AREA ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP FOR COWETA COUNTY COMMUNITY PANEL #13077C0143D DATED FEB. 6, 2013.
- WATER AND SEWER SERVICE TO BE PROVIDED BY NEWNAN UTILITIES.
- ALL WORK SHALL CONFORM TO CITY OF NEWNAN STANDARDS AND SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE PROPER OFFICIALS FOR ANY REQUIRED INSPECTIONS.
- NO GDOT PERMITS APPLICABLE TO THIS DEVELOPMENT.
- NO ARMY CORPS PERMITS APPLICABLE TO THIS DEVELOPMENT.

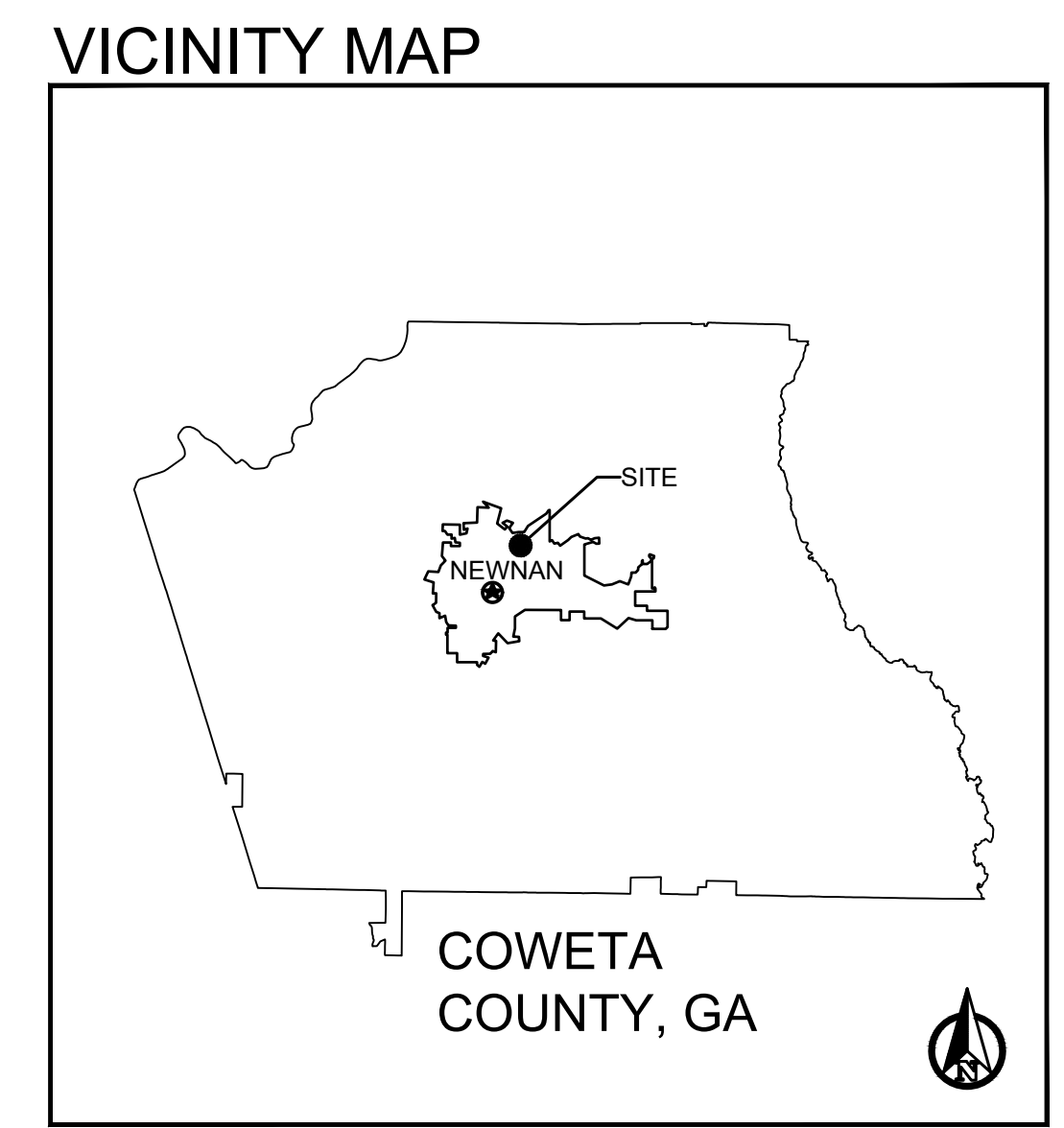
DRAINAGE EASEMENT NOTE:

18. THE OWNER OF RECORD, ON BEHALF OF HIMSELF (ITSELF) AND ALL SUCCESSORS IN INTEREST SPECIFICALLY RELEASES THE CITY OF NEWNAN FROM ANY AND ALL LIABILITY AND RESPONSIBILITY FOR FLOODING OR EROSION FROM STORM DRAINS OR FROM FLOODING FROM HIGH WATER OF NATURAL CREEKS, RIVERS OR DRAINAGE FEATURES SHOWN HEREIN. A DRAINAGE EASEMENT IS HEREBY ESTABLISHED FOR THE SOLE PURPOSE OF PROVIDING FOR THE EMERGENCY PROTECTION OF THE FREE FLOW OF SURFACE WATERS ALONG ALL WATERCOURSES AS ESTABLISHED BY THE REGULATIONS OF THE CITY OF NEWNAN. THE PUBLIC WORKS DIRECTOR MAY CONDUCT EMERGENCY MAINTENANCE OPERATIONS WITHIN THIS EASEMENT WHERE EMERGENCY CONDITIONS EXIST. EMERGENCY MAINTENANCE SHALL BE THE REMOVAL OF TREES AND OTHER DEBRIS, EXCAVATION, FILLING AND THE LIKE, NECESSARY TO REMEDY A CONDITION, WHICH IN THE JUDGMENT OF THE PUBLIC WORKS DIRECTOR, IS POTENTIALLY INJURIOUS TO LIFE, PROPERTY OF THE PUBLIC ROADS OR UTILITY SYSTEM. SUCH EMERGENCY MAINTENANCE, CONDUCTED FOR THE COMMON GOOD, SHALL NOT BE CONSTRUED AS CONSTITUTING A CONTINUING MAINTENANCE OBLIGATION ON THE PART OF THE CITY OF NEWNAN NOR AN ABRIGATION OF THE CITY'S RIGHTS TO SEEK REIMBURSEMENT FOR EXPENSES FROM THE OWNERS OF THE PROPERTY/IES OF THE LANDS THAT GENERATED THE CONDITIONS.

HYDROLOGY NOTE:

19. THE EXISTING WET EXTENDED DETENTION POND ON-SITE WAS DESIGNED AND INSTALLED AS PART OF THE HYDROLOGICAL REPORT FOR INCONTROL, INC. BY SEABOLT & CO., INC. DATED 6/9/2008. AS PART OF THIS DEVELOPMENT, AN ASBUILT SURVEY WAS PERFORMED ON THE OUTLET CONTROL STRUCTURE AND THE VOLUME OF THE POND. THE DESIGN OF THE WATER QUALITY COMPONENT OF THE POND ACCOUNTED FOR 2.05 ACRES OF IMPERVIOUS AREA DRAINING TO IT. THIS PROPOSED DEVELOPMENT INCLUDES 0.76 ACRES OF IMPERVIOUS SURFACES AS WELL AS 1.38 ACRES OF GRAVEL SURFACES. IN ORDER TO ACCOUNT FOR THE PARTIALLY IMPERVIOUS NATURE OF THE GRAVEL SURFACES, HLP ASSUMES THE GRAVEL TO BE 85% IMPERVIOUS. USING THIS CALCULATION FOR WQV PURPOSES, THE TOTAL CONTRIBUTING AREA OF IMPERVIOUS SURFACES IS 1.93 ACRES. SINCE THIS VALUE IS LESS THAN THE AMOUNT THAT THE FACILITY WAS DESIGNED FOR, HLP FEELS THAT THE EXISTING WATER QUALITY COMPONENT OF THE POND IS SUFFICIENT IN TREATING THE REQUIRED WQV FOR THE SITE IN LIEU OF USING A RUNOFF REDUCTION PRACTICE.

Sheet List Table	
Sheet Number	Sheet Title
C000	COVER
C001	GENERAL NOTES
C100	EXISTING CONDITIONS
C200	SITE PLAN
C300	GRADING AND DRAINAGE
C351	STORM PIPE CHARTS
C400	UTILITY PLAN
C500	EROSION CONTROL COVER
C501	COMPREHENSIVE MONITORING PLAN
C502	N.P.D.E.S. CHECKLIST
C503	DRAINAGE BASINS
C510	INITIAL PHASE EROSION AND SEDIMENTATION CONTROL PLAN
C520	INTERMEDIATE PHASE EROSION AND SEDIMENTATION CONTROL PLAN
C530	FINAL PHASE EROSION AND SEDIMENTATION CONTROL PLAN
C600	EROSION DETAILS
C601	EROSION DETAILS
C602	EROSION DETAILS
C700	CONSTRUCTION DETAILS
C701	CONSTRUCTION DETAILS
C702	CONSTRUCTION DETAILS
C703	CONSTRUCTION DETAILS
C704	CONSTRUCTION DETAILS
C705	CONSTRUCTION DETAILS
C706	CONSTRUCTION DETAILS
L100	L100 LANDSCAPE PLAN



PREPARED FOR:

SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS

LAND LOT 73 & 74 OF THE 5th DISTRICT, CITY OF NEWNAN,
COWETA COUNTY, GEORGIA
SITE ADDRESS: 141 HILLWOOD CIRCLE

GPS LOCATION OF
THE CONSTRUCTION EXIT
LAT: 33.3974668°
LONG: -084.7820601°

SITE LOCATION MAP



CITY OF NEWNAN SPECIAL NOTES:

DRAINAGE EASEMENT NOTE: The owner of record, on behalf of himself (itself) and all successors in interest specifically releases the city of newnan from any and all liability and responsibility for flooding or erosion from storm drains or from flooding from high water of natural creeks, rivers or drainage features shown herein. a drainage easement is hereby established for the sole purpose of providing for the emergency protection of the free flow of surface waters along all watercourses as established by the regulations of the city of newnan. the public works direct or may conduct emergency maintenance operations within this easement where emergency conditions exist. emergency maintenance shall be the removal of trees and other debris, excavation, filling and the like, necessary to remedy a condition, which in the judgment of the public works director, is potentially injurious to life, property or the public roads or utility system. such emergency maintenance, conducted for the common good, shall not be construed as constituting a continuing maintenance obligation on the part of the city of newnan nor an abrogation of the city's rights to seek reimbursement for expenses from the owner's of the property/ies of the lands that generated the conditions.

The approval of these plans and the issuance of this land disturbance permit does not in any way suggest that all other requirements for the legal or appropriate operations for this activity, which may require additional permitting have been met. The onus is on the Owner/Developer/Builder to discover what additional permitting or approvals may be necessary to operate from this point in an appropriate and legal manner. Plan approval or permit issuance does not absolve the applicant from complying with all applicable laws, standards, or other permits which may be required for this project.

COMPACTION TEST: Compaction test will be required in existing or proposed streets, sidewalks, drives, and other existing or proposed paved areas at varying depths and at intervals as determined by the City Engineer. Unless otherwise noted all backfill in the right of way shall be compacted to 95% standard proctor per ASTM D 698. Contact Ray Horton for proof rolls at 404-606-9140 and send all compaction test results to sheniques@cityofnewnan.org and morton@cityofnewnan.org

- Subgrade (at least one test per 1,500 linear feet alternating lanes and one in each cul-de-sac), if less than 1,500 linear feet then one per day/layer section constructed, must also pass proof roll.
- Base (at least one per 1,500 linear feet alternating lanes and one in each cul-de-sac), if less than 1,500 linear feet then one per day/layer section constructed, must also pass a proof roll.
- Curb and gutter (look beneath C&G), must pass a proof roll before curb and gutter is poured.
- Pipes - One test per lift on alternating sides of pipe for each 300 linear feet of pipe or portion thereof. Test pattern is to begin after first compactive layer above structures bedding and continue to 1 foot above top of pipe.
- Manholes - in the top 5 feet, minimum of one test every other lift around the perimeter of structure and continue to top of structure.

SITE PREP & TREE PROTECTION INSPECTION: Prior to clearing, or clearing and grubbing of the property or any portion included on the development permit, the developer must call for an INITIAL inspection of erosion and sedimentation control measures and protective devices to include tree protection fence. Inspection of these measures will then be conducted on a continuing basis.

PERMANENT PONDS: Upon completion of permanent detention ponds that are not otherwise used for sediment storage. If ponds are concrete the developer must call for footing inspections and wall inspections prior to pouring concrete.

STORM PIPES: Upon installation of storm drainage pipe or other storm water facilities underneath public roads prior to backfilling and during compaction. Inspections will include storm pipe and structure connections, bedding, grout outside and inside, poured inverts, proper compaction of backfill, detention pond - contact Rob Hill for these inspections his direct line is 678-673-5477 or email at mhil@cityofnewnan.org.

CCTV INSPECTION OF STORM SEWER INFRASTRUCTURE: Storm Sewer Infrastructure shall have a CCTV inspection prior to acceptance by the City. All CCTV inspections will be conducted in accordance with the National Association of Sewer Service Companies, Inc. (NASSCO) Pipeline Assessment Certification Program (PACP). Certified assessment reports, repair recommendations and DVDs will be submitted to Public Works by the owner's engineer. Public Works will review the reports and recommendations and approve or revise recommended remedial action on piping, structures, and backfill and street repairs. Storm drainage systems: CCTV of storm drainage systems will be conducted after subbase stone has been compacted and setup, just prior to placement of first lift of pavement surface, but not less than 30 days after installation and backfill to allow for consolidation and settlement of backfill material.

CURB AND GUTTER: Street curbing and gutter (if provided). Inspection shall be requested before the forms or string lines have been set to verify GAB depth and compaction beneath Curb and Gutter and after forms or string lines have been set to verify alignment and layout. Street width and vertical and horizontal alignment will also be spot-checked.

SUB-GRADE STREETS: Sub-grade of streets shall be inspected after compaction and receipt of test reports by the City Engineer or his/her designee. The sub-grade must be roll tested with an eighteen (18) ton load on a tandem dump truck and shall pass to the satisfaction of the City Engineer or his/her designee.

BASE STREETS: Street base shall be inspected after receipt of test reports by the City Engineer or his/her designee; the base must be string-lined for depth and crown. The street base must be roll-tested with an 18-ton load on a tandem dump truck and shall pass to the satisfaction of the City Engineer or his/her designee.

PAVING STREETS: An inspector may be on site during the paving process to check consistency, depth, and workmanship, as applicable. For asphalt paving, the temperature of the material will be monitored and the street will be closed after completion to check thickness and density. Satisfactory test results of the cores shall be delivered to the City Engineer or his/her designee prior to approval of a final subdivision plat or certificate of occupancy.

SIDEWALKS: Pre-pour forms inspection will include: compacted subgrade, optimum moisture, free of organics and debris, cross slope not to exceed 2%, 5-6 feet wide (reference plans) with 2 1/2 inch wide expansion joints with 2 1/2 inch wide expansion joints at all cold joints, around structures and every 60 feet, contraction joints spaced 5 to 6 feet apart depending on sidewalk width and pattern (picture frame/streetscape), ramps per GDOT with truncated dome set in concrete yellow is the preferred color.

In accordance with the City of Newnan Sidewalk Regulations, prior to commencement of work, the Engineering Department will conduct an assessment of the condition of existing sidewalks. The developer is to be responsible to place, replace, repair, and correct any code violations, and bring existing sidewalks abutting their project site into compliance. This includes the coordination for relocation of existing utilities when necessary. This work shall be performed in coordination with city of Newnan Engineering Department.

SILT FENCE: Newnan only allows the use of Type "S" silt fence or approved Type "S" Alternatives. Silt fence has a useful life of 6 (six) months generally.

STRIPING AND SIGNAGE: Submit artwork for street name signs to Michael Klahr at mklahr@cityofnewnan.org for approval before signs are ordered. Road acceptance will not occur until all regulatory signs, street name signs, and thermoplastic striping are in place.

STREET CUT NOTE: For utility crossings under existing roads, use directional bore or jack and bore unless approved by the City Engineer. If pavement cuts are proposed provide a detail for approval by the City Engineer.

NOI: A copy of the N.O.I and proof of fees paid to the GA EPD shall be delivered to the Engineering Department, Attn: City Engineer, prior to approval of these development plans or a land disturbance permit being issued.

AS-BUILTS: "As-Built" drawings shall be submitted to the City Engineer prior to street acceptance. These shall include all information contained on the approved construction drawings in the "As-Built" state. All "as-built" drawings shall be submitted in both hard copy and digital format and be on the state plane coordinate system, USA, GA, NAD 83, West. The digital copy shall be in AutoCAD file format and pdf format.

STREET SIGNS (PUBLIC): Street name signs shall be 9 inch Blades, Double Sided, white letters on green background, with City seal (burnished). Lettering in accordance with MUTCD Section 2D.43, and D3-1 in Figure 2D-10. No border, high intensity Prismatic. Not to exceed 48 inches in length, scale letters as appropriate to meet this length requirement. Abbreviations in accordance with MUTCD Table 1A-1. Standard post system, GDOT Type 7, installed in accordance with GDOT installation standard. Install over STOP sign, lower blade perpendicular to STOP sign, use 12 inch brackets. Submit artwork for each sign to City Engineer for approval prior to making signs.

RETAINING WALLS: Retaining walls that are 4 feet and over must be designed by qualified engineer. These will require separate submittals with factor of safety calculations and all dimensions, details, plan and profile drawings, picture, material type with guardrail at top where necessary, etc. A separate permit will be required for each wall that is 4 feet or higher. Third party inspectors will be required to include but not limited to the footing, rebar, grid, soil, concrete, drains, and final inspection. An engineer's certificate that the wall was installed according to the design is also required and must be submitted to the Engineering Department prior to final approval of the project or certificate of occupancy. If the wall is in an overlay district it must be faced or finished to be more decorative and in compliance with the overlay district standards which are approved by the Planning Department.

DATE: 5/16/24	DESIGN BY: EAM	CHECK BY: RVA	DATE: 5/6/24	DATE: Apr
SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS			COVER	1. ISSUED FOR REVIEW
DRAWING NO. C000			LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWNAN, COWETA COUNTY, GEORGIA	

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 10 FT PERIMETER
- VEHICLE STORAGE SUMMARY:**
 TOTAL REQUIRED: OFFICE: 1/ 250 SQ. FT. OF GFA = 6,400 SQ. FT. GFA = 26 SPACES
 SHOP/WAREHOUSE: 0.25/1000 SQ. FT. = 4,000 SQ FT = 1 SPACES
 TOTAL = 27 SPACES

 TOTAL PROVIDED = 27 SPACES (1 HANDICAP SPACES)
- EXISTING UTILITY LOCATIONS SHOWN ARE GENERALLY SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON THESE DRAWINGS. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE HIS OPERATIONS WITH ALL UTILITIES WHICH MAY BE IN CONFLICT WITH HIS WORK. THE CONTRACTOR MUST MAINTAIN AND PROTECT ALL SUCH UTILITIES, OR RELOCATE UTILITIES AS NEEDED.
- ALL WORK SHALL CONFORM TO THE CITY OF NEWNAN STANDARDS AND SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE PROPER OFFICIALS FOR ANY REQUIRED INSPECTIONS.
- A PORTION OF THIS PROPERTY IS LOCATED WITHIN A FLOOD HAZARD AREA ACCORDING TO F.E.M.A FLOOD INSURANCE RATE MAP FOR COWETA COUNTY COMMUNITY PANEL #13077C0143D DATED FEB. 6, 2013.
- STATE WATERS ARE PRESENT ON OR WITHIN 200 FT OF THIS PROJECT SITE. HOWEVER, THEY WILL NOT BE AFFECTED BY CONSTRUCTION ACTIVITIES.
- WETLANDS DO NOT EXIST ON THE SITE BUT ARE NOT EFFECTED BY SITE DEVELOPMENT.
- HIGHLAND LAND PLANNING LLC DOES NOT ACCEPT RESPONSIBILITY FOR THE DESIGN, PERMITTING, OR INSPECTION OF ANY RETAINING WALLS. CONTRACTOR TO COORDINATE WITH THE DEVELOPER ON DESIGN AND PERMITTING.
- CIVIL PLANS DEPICT APPROXIMATE LOCATIONS OF STRUCTURES. CONTRACTOR SHALL UTILIZE ARCHITECTURAL PLANS TO LAYOUT ALL BUILDINGS, INCLUDING SITE WORK REQUIRING SPECIAL DETAILS ON ARCHITECTURAL PLANS. ANY SIGNIFICANT DEVIATION BETWEEN ARCHITECTURAL PLANS AND CIVIL LAYOUT SHOULD BE REPORTED TO THE SITE CIVIL ENGINEER AS SOON AS POSSIBLE.
- ANY DAMAGES THAT MAY OCCUR TO REAL PROPERTY OR EXISTING IMPROVEMENTS SHALL BE RESTORED BY THE CONTRACTOR TO AT LEAST THE SAME CONDITION THAT THE REAL PROPERTY OR EXISTING IMPROVEMENTS WERE IN PRIOR TO THE DAMAGES. THIS RESTORATION SHALL BE SUBJECT TO THE OWNERS APPROVAL. MOREOVER, THIS RESTORATION SHALL NOT BE A BASIS FOR ADDITIONAL COMPENSATION TO THE CONTRACTOR. RESTORATION SHALL INCLUDE, BUT NOT BE LIMITED TO, REGRASSING, REVEGETATION, REPLACING FENCES, REPLACING TREES, ETC.
- LOCAL PEDESTRIAN AND VEHICULAR TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. BARRICADING AND TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL CONFORM TO THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" AND GDOT STANDARD SPECIFICATIONS AND DRAWINGS. TRAFFIC FLOW AND ACCESS SHALL BE MAINTAINED DURING ALL PHASES OF THE CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING TRAFFIC SAFETY MEASURES FOR WORK ON PROJECT.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL CONSTRUCTION MEANS, METHODS, TECHNIQUES, AND PROCEDURES AND SHALL AT ALL TIMES TAKE ALL REASONABLE SAFETY PRECAUTIONS FOR THE SAFETY OF ITS EMPLOYEES ON THE PROJECT AND SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF FEDERAL, STATE, AND MUNICIPAL SAFETY LAWS AND BUILDING CONSTRUCTION CODES.
- CONTRACTOR SHALL MAINTAIN DRAINAGE AT ALL TIMES DURING CONSTRUCTION. PONDING OF WATER IN STREETS, DRIVES, TRUCK COURTS, TRENCHES, ETC. WILL NOT BE ALLOWED.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH UTILITY COMPANIES AND ADJUSTMENT OF EXISTING SANITARY SEWER CLEANOUTS, WATER METERS AND ANY OTHER APPURTENANCES TO FINAL GRADE AS REQUIRED.
- CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL APPLICABLE LOCAL, STATE AND FEDERAL STORM WATER POLLUTION PREVENTION LAWS AND ORDINANCES.
- THE CONTRACTOR IS FULLY RESPONSIBLE FOR MAINTAINING OPERATIONS THAT MEET OR EXCEED ANY LOCAL, STATE OR FEDERAL PERMIT REQUIREMENTS. ANY PERMIT VIOLATION OR VIOLATIONS OF STATE LAWS AND REQUIREMENTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OR OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL PROVIDE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, ACCESS AND EGRESS FROM ALL

- EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
- THE UTILITY PROTECTION AGENCY IS TO BE NOTIFIED 72 HOURS PRIOR TO ANY LAND DISTURBANCE ACTIVITY.
 - CONTRACTOR TO COORDINATE WITH POWER COMPANY PROVIDING TEMPORARY SERVICE FOR CONSTRUCTION FACILITIES DURING CONSTRUCTION.
 - CONTRACTOR IS TO COMPLY WITH ALL LOCAL BUILDING CODES AND REGULATIONS WHICH ARE PRESENTLY IN EFFECT.
 - SIGNS SHALL BE PERMITTED THRU PLANNING AND ZONING DEPARTMENT.
 - ALL DIMENSIONS ARE TO FACE OF CURB, UNLESS OTHERWISE NOTED. DIMENSIONS OF LANDSCAPE AREAS SHOW CLEAR SPACE, AND ARE TYPICALLY BACK OF CURB UNLESS OTHERWISE NOTED.
 - ALL SITE LIGHTING TO BE BUILDING MOUNTED. NO PARKING LOT POLES REQUIRED

DEMOLITION NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION AND COST OF THE RELOCATION OF ALL UTILITIES ON SITE ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT, SUCH AS, BUT NOT LIMITED TO DRAINAGE STRUCTURES, TRAFFIC SIGNS, UTILITY POLES, GUY WIRES, ETC.
- CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVAL OF ALL DEBRIS AS ACCEPTABLE TO THE OWNER IN COMPLIANCE WITH ALL FEDERAL, STATE AND LOCAL LAWS.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- ALL AREAS NOTED ON SHEET C100 SHALL BE DEMOLISHED AND REMOVED FROM THE SITE AFTER THE INSTALLATION OF EROSION CONTROL MEASURES AND PRIOR TO BEGINNING SITE WORK. CONTRACTOR SHALL COORDINATE DEMOLITION WITH OTHER SHEETS IN THIS PACKAGE. ITEMS REQUIRING DEMOLITION BASED ON NEW CONSTRUCTION AND NOT DETAILED ON THIS SHEET SHALL ALSO BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH DEMOLITION REQUIREMENTS.
- SAWCUT EDGES OF ASPHALT DEMOLITION, PATCH AND REPAIRS NECESSARY.
- COMPLETELY REMOVE TREES EFFECTING NEW WORK ONLY. CONTRACTOR WILL BE REQUIRED TO REPLACE TREES TAKEN OUT THAT ARE NOT IN CONFLICT WITH SITE IMPROVEMENTS. REFER TO SHEET C100 FOR LOCATION OF TREE PROTECTION FENCING.

GRADING/CONSTRUCTION NOTES:

- ALL CONTOURS ON PAVEMENT, OR ELSEWHERE, ARE TOP OF FINISHED PAVEMENT OR SURFACE.
- SLOPES AND DISTURBED AREAS NOT COVERED BY PAVEMENT SHALL BE GRADED SMOOTH AND RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR TO PROVIDE TOPSOIL IF NOT AVAILABLE ON SITE. THE AREAS SHALL BE SEEDED AND COVERED WITH MATTING AS DESIGNATED ON EROSION CONTROL, FERTILIZED AND WATERED TO PROVIDE A HEARTY, MOWABLE STAND OF GRASS. SMALL ROCKS AND DEBRIS MUST BE REMOVED. ISLANDS TO BE BACKFILLED TO TOP OF CURB WITH TOPSOIL AND GRADED TO DRAIN.
- EARTHWORK SHALL BE ON AN UNCLASSIFIED BASIS. IMPORTING AND EXPORTING OF SOIL MAY BE REQUIRED TO RAISE/LOWER SITE TO FINAL GRADES.
- MAXIMUM SLOPES ON CUT OR FILL SECTIONS SHALL NOT EXCEED 2:1 UNLESS OTHERWISE NOTED.
- SEE SHEETS C500 - C630 FOR SITE EROSION CONTROL MEASURES.
- CLEARING LIMITS DETAILED ON THE TREE PROTECTION PLAN.
- HDPE (HIGH DENSITY POLYETHYLENE) SHALL BE USED FOR ALL STORM PIPING UNLESS OTHERWISE NOTED.

UTILITY NOTES

- WATER SERVICE PROVIDED BY NEWNAN UTILITIES. LOCATED AT 70 SEWELL RD, NEWNAN, GEORGIA. NEWNAN UTILITIES STANDARD SPECIFICATIONS SHALL APPLY TO ALL WATER CONSTRUCTION.
- SEWER SERVICE PROVIDED BY NEWNAN UTILITIES. LOCATED AT 70 SEWELL RD, NEWNAN, GEORGIA, CONTACT SCOTT TOLAR, (770)301-0245.
- ALL FIRE SERVICE WATER PIPE SHALL BE C900 UNLESS OTHERWISE INDICATED HEREIN. ALL DOMESTIC WATER SERVICE PIPE 3-INCHES AND SMALLER SHALL BE PVC SCH 80. LARGER DOMESTIC SERVICE PIPE SHALL BE C900.
- NEWNAAN UTILITIES STANDARD SPECIFICATIONS AND DETAILS SHALL GOVERN ALL WATER CONSTRUCTION.
- THE BUILDING CONTRACTOR IS RESPONSIBLE FOR LOCATION, SIZE AND SPECIFICATIONS OF ALL ELECTRICAL PADS FROM THE LOCAL POWER COMPANY AND PROVIDING SERVICE FROM THE TRANSFORMER OR LOCAL UTILITY TO THE BUILDING.
- THE BUILDING CONTRACTOR IS RESPONSIBLE FOR LOCATION, SIZE AND SPECIFICATIONS OF ALL TELEPHONE PEDESTALS FROM THE LOCAL UTILITY COMPANY AND PROVIDING SERVICE FROM THE LOCAL UTILITY TO THE BUILDING.
- CONTRACTOR SHALL COORDINATE ANY DISRUPTIONS TO EXISTING UTILITY SERVICES WITH ADJACENT PROPERTY OWNERS AND IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING UTILITIES DURING CONSTRUCTION.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARDS OR OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL PROVIDE SUPPORT SYSTEMS, SLOPING, BENCHING AND OTHER MEANS OF PROTECTION. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. CONTRACTOR IS RESPONSIBLE TO COMPLY WITH PERFORMANCE CRITERIA FOR OSHA.
- SANITARY SEWER PIPE SHALL BE PVC SDR 26 ASTM 3034 FOR PIPES LESS THAN 16" DEEP AND GREATER THAN 4" DEEP UNLESS OTHERWISE NOTED. PVC PIPE SHALL BE BELL AND SPIGOT TYPE WITH INTEGRAL BELL AND RUBBER GASKETS. ALL OTHER PIPE SHALL BE DUCTILE IRON CLASS 50 AWA C150, ANSI A21.51 WITH PUSH ON OR MECHANICAL JOINTS.
- ALL SANITARY SEWER LATERALS SHALL BE PVC SDR26 AND SIZED AT 6-INCH MINIMUM. LATERALS SHALL BE INSTALLED AT A MINIMUM 1% SLOPE. SEE PLUMBING PLANS FOR CONTINUATION AT BUILDING.
- ALL CONNECTIONS TO STRUCTURES REQUIRE KOR-N-SEAL OR EQUAL RUBBER BOOTS.
- ALL WATER PIPE 3" AND SMALLER SHALL BE PVC SCH 80.
- CONTRACTOR SHALL MAINTAIN A MINIMUM OF 4" COVER OVER ALL SEWER AND WATER LINES.
- CONTRACTOR SHALL COORDINATE INSTALLATION OF WATER SERVICE WITH NEWNAN UTILITIES. DOMESTIC METER PROVIDED BY CITY.
- THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF WATER AND SEWER LINE IS TEN FEET (10'). THE MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINES IS EIGHTEEN INCHES (18').
- EXISTING UTILITY LOCATIONS ARE APPROXIMATE AND SHOULD BE VERIFIED FOR LOCATION AND NUMBER BY THE CONTRACTOR.
- ALL ELECTRIC, TELEPHONE AND GAS LINES, INCLUDING SERVICE LINES, SHALL BE CONNECTED AND

- INSTALLED BY THE CONTRACTOR. THIS INCLUDES ANY PERMITTING OR CONNECTION FEES THAT MAY BE REQUIRED. ALL UTILITIES TO BE CONSTRUCTED IN ACCORDANCE WITH THE APPROPRIATE UTILITY COMPANIES SPECIFICATIONS.
- ALL WATER AND SEWER LINES ARE TO BE LOCATABLE BY USE OF WIRE OR DETECTABLE TAPE.
 - FOR ALL UTILITY CROSSINGS UNDER EXISTING ROADS, USE DIRECTIONAL BORE OR JACK AND BORE UNLESS APPROVED BY THE CITY ENGINEER. IF PAVEMENT CUTS ARE PROPOSED PROVIDE DETAIL FOR APPROVAL BY THE CITY ENGINEER.
 - CONTRACTOR IS RESPONSIBLE FOR LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. ANY ACCIDENTAL BREAKS OR INTERRUPTIONS IN SERVICE TO EXISTING UTILITIES, WHETHER DETAILED ON THESE DRAWINGS OR NOT, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR WORKING AROUND ALL UTILITIES, INCLUDING NOTIFYING ENGINEER OF ANY CONFLICTS BETWEEN NEW AND EXISTING UTILITIES PRIOR TO INSTALLATION.
 - CONTRACTOR MUST PROVIDE PROPER TRAFFIC CONTROL DEVICES FOR CONSTRUCTION AT THE DRIVEWAY CONNECTION AT STILLWOOD DRIVE AND NEWMAN CROSSING BOULEVARD IN ACCORDANCE WITH MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (LATEST ED.).

SIGNING AND MARKING NOTES:

- ALL PAVEMENT MARKINGS AND SIGNAGE SHALL MEET THE LATEST ADA, MUTCD, GDOT AND GA CODE.
- ALL PAVEMENT MARKINGS WITHIN THE RIGHT OF WAY, STRIPES, ARROWS, WORDS, ETC., SHALL BE HOT APPLIED THERMOPLASTIC AND ALL SIGNS SHALL BE HIP UNLESS INDICATED OTHERWISE.
- ALL STANDARD HIGHWAY SIGNS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH THE DETAILS SHOWN IN THE PLANS, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION, THE GEORGIA STANDARD SPECIFICATIONS, SUPPLEMENTAL SPECIFICATIONS, AND/OR SPECIAL PROVISIONS.
- CONTRACTOR SHALL ERADICATE ALL STRIPING IN CONFLICT WITH THE TRAFFIC FLOW PLAN. UTILIZE BLASTING, SUCH AS SAND BLASTING OR WATER BLASTING, GRINDING, OR OTHER APPROVED METHODS TO COMPLETE REMOVE PAVEMENT MARKINGS WITH WATERIALLY DAMAGING THE PAVEMENT SURFACE OR TEXTURE. REPAIR (AT THE CONTRACTORS' EXPENSE) DAMAGE TO THE PAVEMENT OR OTHER SURFACE FROM REMOVING THE MARKINGS.
- ALL SIGNS SHALL BE MOUNTED 7' ABOVE GRADE.
- STOP SIGNS MUST BE BREAK-A-WAY MOUNTED ON A SQUARE TUBE. ALL OTHER SIGNS MAY BE MOUNTED ON U-CHANNEL.

SOIL & EROSION CONTROL NOTES:

- 24 HOUR CONTACT: BRANDON HARP, (770) 789-2123
- TOTAL DISTURBED AREA = 3.90
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES.**
- EROSION CONTROL MEASURES MUST BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.**
- ALL EROSION CONTROL MEASURES ARE TO CONFORM TO THE STANDARDS SET FORTH IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" LATEST EDITION.
- EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTORS RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DEVELOPER IMMEDIATELY!
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.
- SEDIMENT CONTROL MEASURES MUST BE INSTALLED BEFORE CLEARING AND GRADING BEGINS.
- INSPECTIONS BY CERTIFIED PERSONNEL PROVIDED BY PRIMARY PERMITEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON SITE IN COMPLIANCE WITH NPDES PERMIT NUMBER GAR 100001.
- DISTURBED AREAS TO BE STABILIZED WITH MULCH WHERE SLOPES EXCEED 3%.
- INSPECTION AND REPAIR OF EROSION CONTROL MEASURES IS REQUIRED ONCE A WEEK AND AFTER EACH RAIN EVENT, IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL. ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.
- THE CONSTRUCTION OF THE SITE WILL INITIATE WITH THE INSTALLATION OF EROSION CONTROL MEASURES SUFFICIENT TO CONTROL SEDIMENT DEPOSITS AND EROSION. ALL SEDIMENT CONTROL WILL BE MAINTAINED UNTIL ALL UPSTREAM GROUND WITHIN THE CONSTRUCTION AREA HAS BEEN COMPLETELY STABILIZED WITH PERMANENT VEGETATION AND ALL ROADS/DRIVEWAYS HAVE BEEN PAVED.
- EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM SHOWN ON THE APPROVED PLANS IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS. IT IS THE CONTRACTORS RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION.
- ALL SILT BARRIERS MUST BE PLACED AS ACCESS IS OBTAINED DURING CLEARING. NO GRADING SHALL BE DONE UNTIL SILT BARRIER IS INSTALLED.
- CONTRACTOR SHALL MAINTAIN ALL EROSION CONTROL MEASURES UNTIL PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTRACTOR SHALL CLEAN OUT ALL SEDIMENT COLLECTION AREAS WHEN REQUIRED BY THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" 5TH ED. OR THE CITY OF NEWNAN.
- CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES AT THE END OF EACH WORKING DAY TO ENSURE MEASURES ARE FUNCTIONING PROPERLY. FAILURE TO INSTALL, OPERATE OR MAINTAIN ALL EROSION CONTROL MEASURES WILL RESULT IN CONSTRUCTION BEING STOPPED ON THE JOB SITE UNTIL SUCH MEASURES ARE CORRECTED TO CITY OF NEWNAN STANDARDS.
- A COPY OF THE APPROVED LAND DISTURBANCE AND NPDES PERMIT SHALL BE PRESENT ON THE JOB SITE WHENEVER LAND DISTURBANCE ACTIVITY IS IN PROGRESS.
- PROVIDE CONSTRUCTION EXIT AS SHOWN ON PLANS AND MAINTAIN DURING CONSTRUCTION.
- NEWMAN ONLY ALLOWS THE USE OF TYPE C SILT FENCE OR APPROVED TYPE C ALTERNATIVE. SILT FENCE HAS A USEFUL LIFE OF SIX MONTHS GENERALLY.
- NO ALTERNATIVE BMP'S WERE USED IN THE DESIGN OF THE ES&PC PLAN.
- NO CONSTRUCTION ACTIVITY WILL DISCHARGE STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 LINEAR MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED AS, ANY PORTION OF A BIOTA IMPAIRED STREAM SEGMENT.

TREE PROTECTION NOTES:

- CONTACT THE PLANNING DEPARTMENT AT (770) 254-2354 TO ARRANGE A PRE-CONSTRUCTION

- CONFERENCE WITH THE CITY LANDSCAPE ARCHITECT PRIOR TO ANY LAND DISTURBANCE.
- ALL TREE PROTECTION MEASURES SHALL BE INSTALLED AND INSPECTED PRIOR TO THE START OF ANY LAND DISTURBANCE AND MAINTAINED UNTIL FINAL LANDSCAPING IS INSTALLED. CALL THE PLANNING DEPARTMENT AT (770) 254-2354 FOR AN INSPECTION BY THE CITY LANDSCAPE ARCHITECT.**
 - NO PARKING, STORAGE, OR ANY OTHER CONSTRUCTION ACTIVITIES ARE TO OCCUR WITHIN TREE PROTECTION AREAS.**
 - REFER TO STANDARDS IN GENERAL SPECIFICATIONS FOR TREE PROTECTION.

- DIAMETER OF PROTECTION ZONE SHOULD BE ONE FOOT FOR EACH INCH OF TRUNK DIAMETER BREAST HEIGHT OR 1/2 HEIGHT OF TREE, WHICHEVER IS GREATER, UNLESS OTHERWISE NOTED HEREIN. FOR 2-INCH CALIPER TREES OR SMALLER, THE PROTECTION ZONE SHALL BE 6 FOOT MINIMUM DIAMETER.
- TEMPORARY FENCING (4 FT HIGH) SHALL BE PLACED AT THE DRIFLINE OF THE TREE TO BE SAVED. FENCE SHALL COMPLETELY ENIRCLE THE TREE(S). TO INSTALL FENCE POSTS, AVOID DRIVING POSTS OR STAKES INTO MAJOR ROOTS.
- DEAD TREES, SCRUB, OR UNDERGROWTH SHALL BE CUT FLUSH WITH ADJACENT GRADE. THERE WILL BE NO SOIL DISTURBANCE UNDER THE DRIP LINE OF TREES TO BE PRESERVED.
- PLACE 6 INCHES OF BARK MULCH AT AREAS NOT PROTECTED BY BARRIER.
- TREATMENT OF ROOTS EXPOSED DURING CONSTRUCTION: FOR ROOTS OVER 1 INCH IN DIAMETER DAMAGED DURING CONSTRUCTION, MAKE A CLEAN STRAIGHT CUT TO REMOVE DAMAGED PORTION OF ROOT. ALL EXPOSED ROOTS SHOULD BE TEMPORARILY COVERED WITH DAMP BURLAP AND COVERED WITH SOIL OR MULCH AS SOON AS POSSIBLE TO PREVENT DRYING. FOR PRUNING GUIDELINES, SEE ANSI #300.
- CONSTRUCTION ENTRANCE, ROADS AND UTILITIES SHALL AVOID CRITICAL ROOT ZONES.
- SEE SHEETS C510 - C630 FOR SITE EROSION CONTROL MEASURES

ACCESSIBLE ROUTE NOTES (EXTERIOR)

- MAXIMUM CROSS SLOPE OF ACCESSIBLE ROUTES, SIDEWALKS, AND HANDICAP PARKING STALLS AND ACCESS AISLES SHALL NOT EXCEED A SLOPE OF 2% (1/50).
- THE MAXIMUM RUNNING SLOPE OF ACCESSIBLE ROUTE ALONG SIDEWALKS SHALL NOT EXCEED A SLOPE OF 5% (1:20). SEE RAMP NOTES BELOW.
- MINIMUM CLEAR WIDTH IS 3'. IF ACCESSIBLE ROUTE HAS LESS THAN 5' CLEAR WIDTH, THEN PASSING SPACES AT LEAST 5'x5' SHALL BE LOCATED EVERY 200' OR LESS INTERSECTING SIDEWALKS MEET THIS REQUIREMENT. LONGITUDINAL (RUNNING) SLOPE MAY NOT EXCEED 5% UNLESS RAMP IS INSTALLED (RAMPS MAY NOT EXCEED 8.33%). CROSS SLOPE MAY NOT EXCEED 2%. GAPS IN ROUTE MAY NOT EXCEED 1/2" IN WIDTH.
- FINISHED SURFACE HEIGHT DIFFERENCE REQUIREMENTS:
 - 0 TO 1/4": NO REQUIREMENTS
 - 1/4" TO 1/2": BEVEL WITH 1:2 SLOPE
 - LARGER THAN 1/2": CONFORM TO REQUIREMENTS FOR RAMP
- RAMPS:
 - MAX RAMP SLOPE 8.33% (1:12).
 - RAMPS STEEPER THAN 8.33% ARE NOT ACCEPTABLE.
 - MAX RISE FOR ANY RAMP RUN IS 30" (AT 8.33% SLOPE, MAXIMUM RUN OF RAMP IS 30')
 - MAX CROSS SLOPE OF RAMP 2% (1:50)
- LANDINGS:
 - RAMPS SHALL HAVE LEVEL LANDINGS AT BOTTOM AND TOP OF EACH RAMP.
 - LANDING SHALL BE AT LEAST AS WIDE AS RAMP LEADING TO IT.
 - LANDING LENGTH SHALL BE MINIMUM 5' CLEAR.
 - IF RAMPS CHANGE DIRECTION AT LANDING, MINIMUM LANDING SIZE SHALL BE 5'x5'.
 - ALL LANDINGS ARE TO BE NO MORE THAN 2% SLOPE IN ANY DIRECTION.
- HANDRAILS:
 - HANDRAILS REQUIRED ON BOTH SIDES (MIN. 36" CLEAR BETWEEN HANDRAILS) WHEN RAMP RISE IS GREATER THAN 6".
 - PROVIDE MINIMUM 12" LONG HANDRAIL EXTENSION AT TOP AND BOTTOM LANDINGS.
 - PROVIDE MINIMUM 2" HIGH EDGE PROTECTION OR RAIL WITH LESS THAN 4" CLEAR TO RAMP IF RAMP HAS DROP-OFFS.
 - ROUTES BETWEEN BUILDINGS WITH ONLY DWELLING UNITS DO NOT HAVE TO HAVE HANDRAILS.
 - STAIRS NOT ALLOWED AS PART OF ACCESSIBLE ROUTE BUT IF ADJACENT TO ROUTE OR PART OF TENANT SPACE MUST MEET REQUIREMENTS FOR STAIR RAILS.
- CURB RAMPS:
 - MAX SLOPE OF CURB RAMP 8.33%.
 - MAX SLOPE OF SIDE FLARES 10%.
 - MAX SLOPE OF ADJOINING GUTTERS, ROAD SURFACE, OR ACCESSIBLE ROUTE 5%.
 - MIN WIDTH 36" (NOT INCLUDING SIDE FLARES).
 - DETECTABLE WARNING IS REQUIRED ON CURB RAMPS IN PUBLIC RIGHTS OF WAY, AND SHALL BE 24" MINIMUM IN THE DIRECTION OF TRAVEL AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR FLUSH SURFACE. DETECTABLE WARNINGS SHALL BE LOCATED SO THE EDGE NEAREST THE CURB LINE IS 6" TO 8" FROM THE CURB LINE.
- PARKING SPACES
 - MINIMUM 8' WIDE ACCESSIBLE PARKING SPACE
 - MINIMUM 8' WIDE ACCESS AISLE AT STANDARD SPACES
 - MINIMUM 8' WIDE ACCESS AISLE AT VAN ACCESSIBLE SPACES
 - MAXIMUM 2% (1:50) SLOPE IN ANY DIRECTION
- SIGNAGE
 ACCESSIBLE PARKING SPACES SHALL BE DESIGNATED AS RESERVED BY A SIGN SHOWING THE SYMBOL OF ACCESSIBILITY. VAN ACCESSIBLE SPACES SHALL HAVE AN ADDITIONAL SIGN "VAN-ACCESSIBLE" MOUNTED BELOW THE SYMBOL. SUCH SIGNS SHALL BE LOCATED SO THEY CANNOT BE OBSCURED BY A VEHICLE PARKED IN THE SPACE (7' ABOVE GRADE UNLESS OTHER HEIGHT REQUIRED BY LOCAL JURISDICTION).
- PAVEMENT MARKINGS:
 AS REQUIRED BY LOCAL JURISDICTIONAL AUTHORITY (RECOMMENDED CROSSWALK MARKING TO DESIGNATE ACCESSIBLE PEDESTRIAN ROUTE)
- ACCESSIBLE ROUTES
 MUST COMPLY WITH ADA, THE FAIR HOUSING ACT AND ICC/ANSI A117.1-2003, OR LATEST EDITION.



SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS

LAND LOTS 72 AND 74 OF THE 5TH DISTRICT, CITY OF NEWNAN, COWETA COUNTY, GEORGIA

Check By:	Check By:	Check By:	Check By:	Check By:	Check By:	Check By:	Check By:	Check By:	Check By:	
RVA	RVA	RVA	RVA	RVA	RVA	RVA	RVA	RVA	RVA	
Drawn By:	Drawn By:	Drawn By:	Drawn By:	Drawn By:	Drawn By:	Drawn By:	Drawn By:	Drawn By:	Drawn By:	
EMW	EMW	EMW	EMW	EMW	EMW	EMW	EMW	EMW	EMW	
Date:	Date:	Date:	Date:	Date:	Date:	Date:	Date:	Date:	Date:	
5/6/24	5/6/24	5/6/24	5/6/24	5/6/24	5/6/24	5/6/24	5/6/24	5/6/24	5/6/24	
1. ISSUED FOR REVIEW										
Rev.	Description								Date	Appr.

GEORGIA811
www.Georgia811.com

DRAWING NO. **C001**



TREE PROTECTION NOTES:

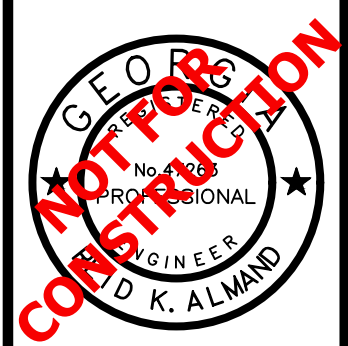
- CONTACT THE PLANNING DEPARTMENT AT (770) 254-2354 TO ARRANGE A PRE-CONSTRUCTION CONFERENCE WITH THE CITY LANDSCAPE ARCHITECT PRIOR TO ANY LAND DISTURBANCE.
- ALL TREE PROTECTION MEASURES SHALL BE INSTALLED AND INSPECTED PRIOR TO THE START OF ANY LAND DISTURBANCE AND MAINTAINED UNTIL FINAL LANDSCAPING IS INSTALLED. CALL THE PLANNING DEPARTMENT AT (770) 254-2354 FOR AN INSPECTION BY THE CITY LANDSCAPE ARCHITECT.
- NO PARKING, STORAGE, OR ANY OTHER CONSTRUCTION ACTIVITIES ARE TO OCCUR WITHIN TREE PROTECTION AREAS.
- A MAINTENANCE INSPECTION OF TREES WILL BE PERFORMED AFTER TWO FULL GROWING SEASONS FROM THE DATE OF THE FINAL CONSTRUCTION INSPECTION. PROJECT OWNERS AT THE TIME OF THE MAINTENANCE INSPECTION ARE RESPONSIBLE FOR ORDINANCE COMPLIANCE.

SURVEY PLAN NOTES:

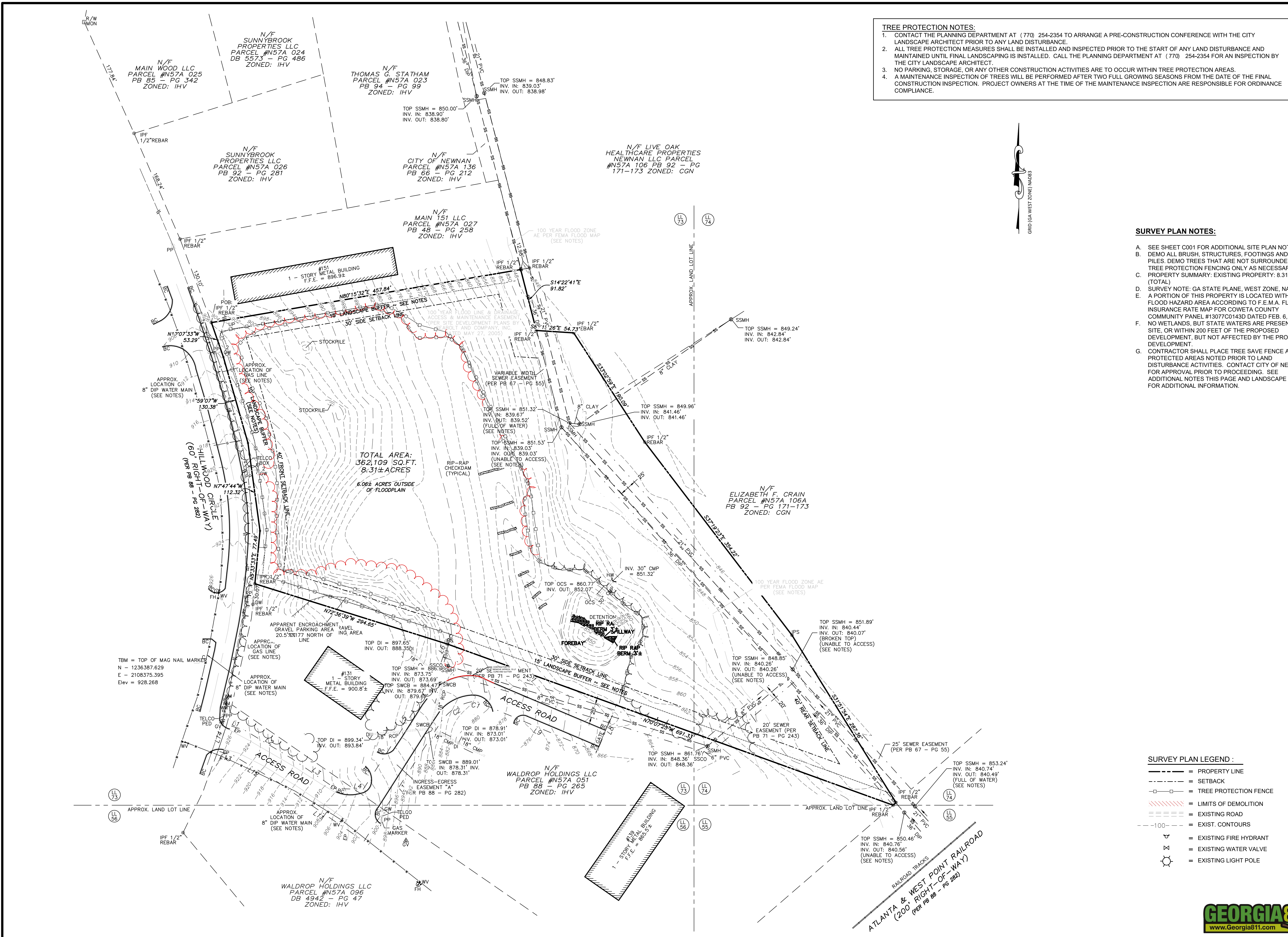
- SEE SHEET C001 FOR ADDITIONAL SITE PLAN NOTES.
- DEMO ALL BRUSH, STRUCTURES, FOOTINGS AND DEBRIS PILES. DEMO TREES THAT ARE NOT SURROUNDED BY TREE PROTECTION FENCING ONLY AS NECESSARY.
- PROPERTY SUMMARY: EXISTING PROPERTY: 8.31 +/- AC (TOTAL)
- SURVEY NOTE: GA STATE PLANE, WEST ZONE, NAD 83
- A PORTION OF THIS PROPERTY IS LOCATED WITHIN A FLOOD HAZARD AREA ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP FOR COWETA COUNTY COMMUNITY PANEL #13077001430 DATED FEB. 6, 2013.
- NO WETLANDS, BUT STATE WATERS ARE PRESENT ON SITE, OR WITHIN 200 FEET OF THE PROPOSED DEVELOPMENT, BUT NOT AFFECTED BY THE PROPOSED DEVELOPMENT.
- CONTRACTOR SHALL PLACE TREE SAVE FENCE AROUND PROTECTED AREAS NOTED PRIOR TO LAND DISTURBANCE ACTIVITIES. CONTACT CITY OF NEWNAN FOR APPROVAL PRIOR TO PROCEEDING. SEE ADDITIONAL NOTES THIS PAGE AND LANDSCAPE PLANS FOR ADDITIONAL INFORMATION.

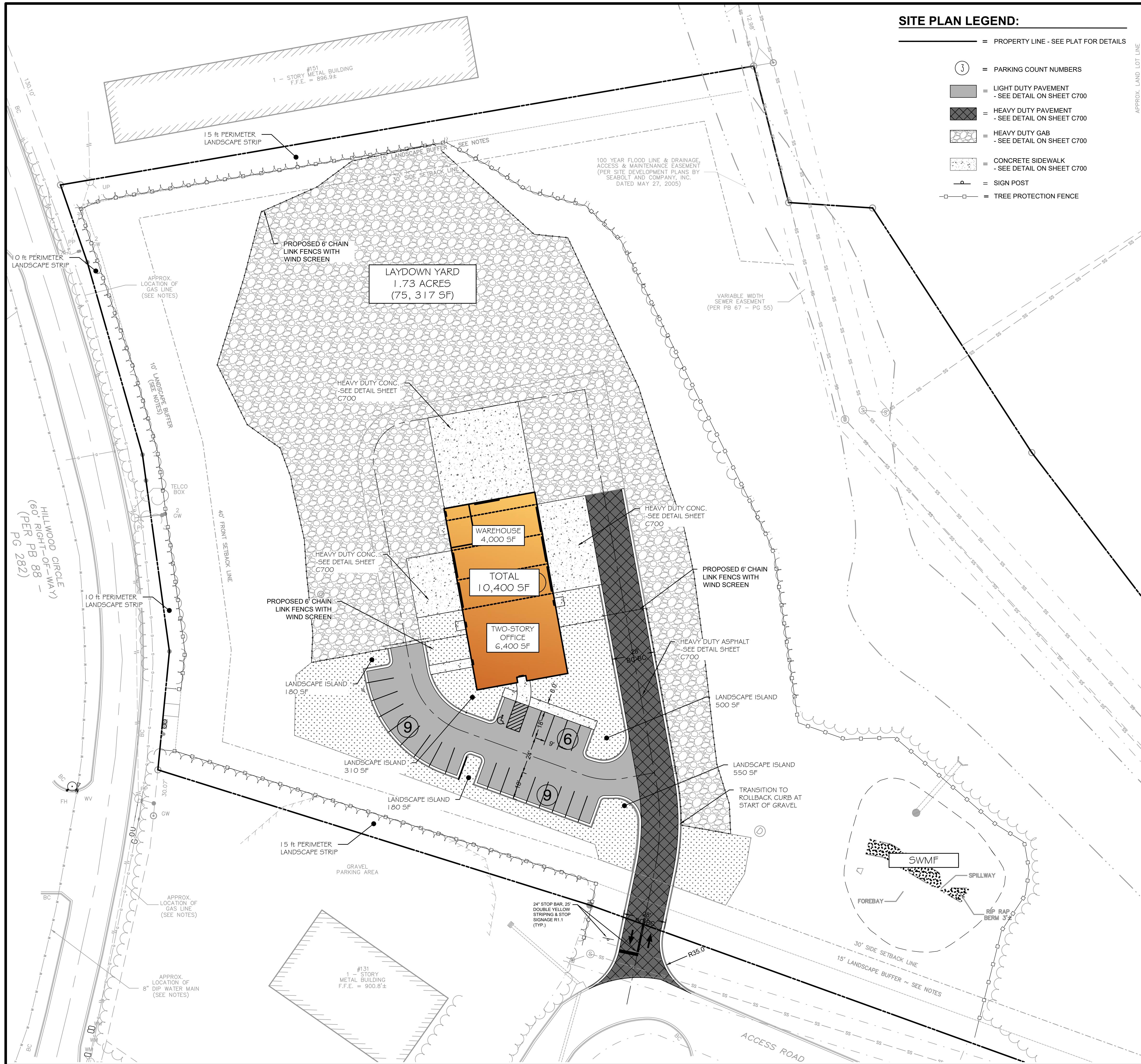
EXISTING CONDITIONS

SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWNAN, COWETA COUNTY, GEORGIA



- SURVEY PLAN LEGEND :**
- = PROPERTY LINE
 - - - - - = SETBACK
 - = TREE PROTECTION KENNEL
 - / —— / —— = LIMITS OF DEMOLITION
 - / —— / —— = EXISTING ROAD
 - - - - - = EXIST. CONTOURS
 - ⊕ = EXISTING FIRE HYDRANT
 - ⊕ = EXISTING WATER VALVE
 - ⊕ = EXISTING LIGHT POLE





SITE PLAN LEGEND:

- = PROPERTY LINE - SEE PLAT FOR DETAILS
- ③ = PARKING COUNT NUMBERS
- [Pattern] = LIGHT DUTY PAVEMENT - SEE DETAIL ON SHEET C700
- [Pattern] = HEAVY DUTY PAVEMENT - SEE DETAIL ON SHEET C700
- [Pattern] = HEAVY DUTY GAB - SEE DETAIL ON SHEET C700
- [Pattern] = CONCRETE SIDEWALK - SEE DETAIL ON SHEET C700
- ⊙ = SIGN POST
- ⊠ = TREE PROTECTION FENCE

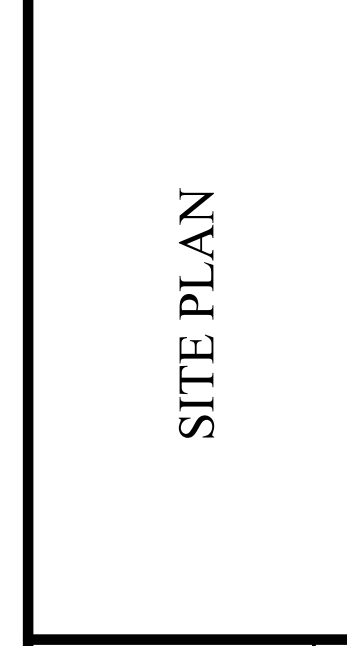
GENERAL NOTES:

1. OWNER:
B2 CONTRACTING
180 WALTER WAY #110
FAYETTEVILLE, GA 30214
CONTACT: BRANDON HARP
EMAIL: BHARP@B2CONTRACTING.COM
PHONE: (770) 789-2123
2. ENGINEER:
HIGHLAND LAND PARKING
201 PROSPECT PARK, SUITE A
PEACHTREE CITY, GA 30289
CONTACT: REID K ALMAND, P.E.
EMAIL: REID.ALMAND@HIGHLANDLP.US
PHONE: (770) 631-0499
3. SURVEYOR:
W.S. BODKIN SURVEYING, LLC
315 CAASTLEWOOD RD
TYRONE, GA 30290
CONTACT: SCOTT BODKIN, R.L.S.
PHONE: (770) 312-5500
4. ZONING: IHV, HEAVY INDUSTRIAL
5. TOTAL SITE AREA = 8.31 +/- AC.
DISTURBED AREA = 3.90 AC.
IMPERVIOUS 0.76 AC., GRAVEL 1.38 AC.,
TOTAL IMPERVIOUS FOR WQV CALCULATIONS (GRAVEL @ 85%) 1.93 AC.
6. LOT DIMENSION REQUIREMENTS PER CITY OF NEWNAN ZONING ORDINANCE:
MINIMUM LOT SIZE - 2 ACRES (87,120 SF)
FRONT SETBACK: MAJOR STREET = 40 / 100 FT, MINOR STREET = 40 / 65 FT
SIDE SETBACK: 30 FT
STREET SIDE SETBACK: MAJOR STREET = 40 / 100 FT, MINOR STREET = 40 / 65 FT
REAR SETBACK: 40 FT
MINIMUM BLDG LINE WIDTH: 200 FT
MINIMUM LOT FRONTAGE: 200 FT
MINIMUM LOT DEPTH: 200 FT
PRINCIPLE BUILDING HEIGHT: 35 FT
ACCESSORY BUILDING HEIGHT: 35 FT
MAXIMUM BUILDING COVERAGE 60% (LOT)
BASE/MAXIMUM FLOOR AREA RATIO: 0.30 / 0.50
DISTANCE BETWEEN BUILDINGS: 25 FT
7. LANDSCAPE STRIP
10 FT PERIMETER
8. VEHICLE STORAGE SUMMARY:
TOTAL REQUIRED: OFFICE: 1/250 SQ. FT. OF GFA = 6,400 SQ. FT. GFA = 26 SPACES
SHOP/WAREHOUSE: 0.25/1000 SQ. FT. = 4,000 SQ FT = 1 SPACES
TOTAL = 27 SPACES

TOTAL PROVIDED = 27 SPACES (1 HANDICAP SPACES)
9. 24 HOUR CONTACT: BRANDON HARP, (770) 789-2123
10. STATE WATERS ARE PRESENT ON THIS PROJECT SITE AS INDICATED, HOWEVER ARE NOT AFFECTED BY THIS DEVELOPMENT.
11. WETLANDS WERE NOT IDENTIFIED WITHIN THE PROPERTY BOUNDARIES.
12. PROJECT SITE IS NOT LOCATED WITHIN A GROUND WATER RECHARGE AREA
13. A PORTION OF THIS PROPERTY IS LOCATED WITHIN A FLOOD HAZARD AREA ACCORDING TO F.E.M.A. FLOOD INSURANCE RATE MAP FOR COWETA COUNTY COMMUNITY PANEL #13077C0143D DATED FEB. 6, 2013.
14. WATER AND SEWER SERVICE TO BE PROVIDED BY NEWNAN UTILITIES.
15. ALL WORK SHALL CONFORM TO CITY OF NEWNAN STANDARDS AND SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO NOTIFY THE PROPER OFFICIALS FOR ANY REQUIRED INSPECTIONS.
16. NO GDOT PERMITS APPLICABLE TO THIS DEVELOPMENT.
17. NO ARMY CORPS PERMITS APPLICABLE TO THIS DEVELOPMENT.



Date	Drawn By	Check By	Rev.	Description
5/6/24	EAM	RVA	1.	ISSUED FOR REVIEW
5/6/24		RVA		



SITE DEVELOPMENT PLANS
FOR
B2 CONTRACTING
WORLD HEADQUARTERS

LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWNAN, COWETA COUNTY, GEORGIA



DRAWING NO.
C200

TREE PROTECTION NOTES:

1. CONTACT THE PLANNING DEPARTMENT AT (770) 254-2354 TO ARRANGE A PRE-CONSTRUCTION CONFERENCE WITH THE CITY LANDSCAPE ARCHITECT PRIOR TO ANY LAND DISTURBANCE.
2. ALL TREE PROTECTION MEASURES SHALL BE INSTALLED AND INSPECTED PRIOR TO THE START OF ANY LAND DISTURBANCE AND MAINTAINED UNTIL FINAL LANDSCAPING IS INSTALLED. CALL THE PLANNING DEPARTMENT AT (770) 254-2354 FOR AN INSPECTION BY THE CITY LANDSCAPE ARCHITECT.
3. NO PARKING, STORAGE, OR ANY OTHER CONSTRUCTION ACTIVITIES ARE TO OCCUR WITHIN TREE PROTECTION AREAS.
4. A MAINTENANCE INSPECTION OF TREES WILL BE PERFORMED AFTER TWO FULL GROWING SEASONS FROM THE DATE OF THE FINAL CONSTRUCTION INSPECTION. PROJECT OWNERS AT THE TIME OF THE MAINTENANCE INSPECTION ARE RESPONSIBLE FOR ORDINANCE COMPLIANCE.

NOTE: ALL SPOT ELEVATIONS SHOWN AT CURB ARE TO BOTTOM FACE OF CURB (GUTTER LINE) UNLESS OTHERWISE NOTED.

100 YEAR FLOOD LINE & DRAINAGE ACCESS & MAINTENANCE EASEMENT (PER SITE DEVELOPMENT PLANS BY SEABOLT AND COMPANY, INC. DATED MAY 27, 2005)

GRADING / DRAINAGE NOTES

1. SITE PREPARATION: ALL TREES AND UNWANTED VEGETATION SHOULD BE REMOVED, STUMPS GRUBBED AND ORGANIC TOPSOIL STRIPPED.
2. ALL AREAS TO RECEIVE STRUCTURAL FILL MATERIAL SHALL BE EVALUATED PRIOR TO FILL PLACEMENT. THE APPROVAL PROCESS SHOULD INCLUDE PROOFROLLING THE SUBGRADE WITH A FULLY LOADED TANDEM AXLE DUMP TRUCK (20 TONS) DURING A PERIOD OF DRY WEATHER AND UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER. DENSIFICATION OF SUBGRADE SOILS MAY BE REQUIRED.
3. ALL STRUCTURAL FILL SHOULD BE COMPACTED TO AT LEAST 95 PERCENT OF THE SOIL'S STANDARD PROCTOR MAXIMUM DRY DENSITY, AS DETERMINED BY ASTM STANDARD D-698. THE UPPER FOOT OF FILL WHICH WILL SUPPORT PAVEMENTS OR SLABS SHOULD BE COMPACTED TO AT LEAST 98 PERCENT OF THE SOIL'S STANDARD PROCTOR MAXIMUM DRY DENSITY FOR IMPROVED SUPPORT. IN AREAS WHICH ARE AT OR ABOVE THE FINISHED GRADE, AND WHICH WILL SUPPORT PAVEMENTS OR SLABS, THE UPPER 8 INCHES IMMEDIATELY BELOW THESE SYSTEMS SHOULD BE SCARIFIED AND RECOMPACTED TO THE 98 PERCENT CRITERIA. STRUCTURAL FILL SHOULD BE FREE OF ORGANIC MATERIAL, HAVE A PLASTICITY INDEX (PI) LESS THAN 20 AND CONTAIN ROCK SIZES NO LARGER THAN 4 INCHES.
4. DENSITY TESTING SHOULD BE PERFORMED BY A SOILS TECHNICIAN TO DETERMINE THE DEGREE OF COMPACTION AND VERIFY COMPLIANCE WITH THE PROJECT SPECIFICATIONS. FOR UNDERFLOOR AREAS, AT LEAST ONE FIELD DENSITY TEST SHOULD BE MADE PER 5000 SQUARE FEET OF FILL AREA FOR EACH TWO FOOT LIFT. TESTING FREQUENCY SHOULD BE INCREASED IN CONFINED AREAS. AREAS WHICH DO NOT MEET THE COMPACTION SPECIFICATIONS SHOULD BE RECOMPACTED TO ACHIEVE COMPLIANCE. IN CONFINED AREAS, SUCH AS UTILITY TRENCHES, THE USE OF PORTABLE COMPACTION EQUIPMENT AND THIN LIFTS OF 3 TO 4 INCHES MAY BE REQUIRED TO ACHIEVE COMPACTION.
5. EARTHWORK SHALL BE ON AN UNCLASSIFIED BASIS. IMPORTING AND EXPORTING OF SOIL MAY BE REQUIRED TO RAISE/LOWER SITE TO FINAL GRADES. EXCAVATIONS MAY BE ACCOMPLISHED USING CONVENTIONAL HEAVY EARTHMOVING EQUIPMENT SUCH AS DOZER ASSISTED PANS, AND SIGNIFICANT EXCAVATIONS OF ROCK AND PARTIALLY WEATHERED ROCK ARE NOT ANTICIPATED.
6. PERMANENT AND TEMPORARY SLOPES SHALL BE CONSTRUCTED NO STEEPER THAN 2H: 1V FOR SLOPES LESS THAN 15 FEET HIGH. PERMANENT SLOPES SHOULD BE SUITABLY PROTECTED FROM EROSION.
7. ALL CONTOURS ON PAVEMENT, OR ELSEWHERE, ARE TOP OF FINISHED PAVEMENT OR SURFACE.
8. SLOPES AND DISTURBED AREAS NOT COVERED BY PAVEMENT SHALL BE GRADED SMOOTH AND RECEIVE 4 INCHES OF TOPSOIL. CONTRACTOR TO PROVIDE TOPSOIL IF NOT AVAILABLE ON SITE. THE AREAS SHALL BE SEEDED AND COVERED WITH MATTING AS DESIGNATED ON EROSION CONTROL FERTILIZED AND WATERED TO PROVIDE A HEARTY, MOWABLE STAND OF GRASS. SMALL ROCKS AND DEBRIS MUST BE REMOVED. ISLANDS TO BE BACKFILLED TO TOP OF CURB WITH TOPSOIL AND GRADED TO DRAIN.
9. CLEARING LIMITS DETAILED ON THE TREE PROTECTION PLAN.
10. EX. GROUNDWATER WELL: ANY WATER WELLS SHALL BE ABANDONED HYDRAULICALLY IN COMPLIANCE WITH GEORGIA LAWS FOR WATER WELLS AS WELL AS "STRUCTURALLY". ONLY A CERTIFIED WATER WELL CONTRACTOR CAN ABANDON WELLS HYDRAULICALLY. UNLESS CEMENT GROUT IS USED FOR WELL ABANDONMENT, WE RECOMMEND THAT ALL WELLS BE STRUCTURALLY PLUGGED WITH CONCRETE PLUG OVERSIZED SO THAT THE PLUG WILL NOT FALL FURTHER INTO THE WELL. THE PLUG SHOULD BE CONSTRUCTED AT LEAST ONE FOOT BELOW FINISH GRADE IN LANDSCAPED AREAS TO FACILITATE GRASSING AND DEEPER IN STRUCTURAL AREAS TO AVOID FOUNDATIONS, UTILITIES, SLABS AND OTHER SIMILAR ITEMS. SPECIFIC RECOMMENDATION FOR STRUCTURAL ABANDONMENT OF THE WELLS CAN BE DETERMINED AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER.
11. COORDINATE ROOF DRAINAGE PIPING WITH ARCHITECTURAL PLANS FOR DOWNSPOUT LOCATIONS. ALL EXTERIOR ROOF DRAIN PIPE SHALL BE HDPE PIPE AT SIZE SHOWN. PLACED MINIMUM 1% FALL TO NEAREST MANHOLE STRUCTURE. CLEANOUTS SHALL BE PROVIDED AT ALL JUNCTIONS.

DRAINAGE EASEMENT NOTE:

12. THE OWNER OF RECORD, ON BEHALF OF HIMSELF (ITSELF) AND ALL SUCCESSORS IN INTEREST SPECIFICALLY RELEASES THE CITY OF NEWNAN FROM ANY AND ALL LIABILITY AND RESPONSIBILITY FOR FLOODING OR EROSION FROM STORM DRAINS OR FROM FLOODING FROM HIGH WATER OF NATURAL CREEKS, RIVERS OR DRAINAGE FEATURES SHOWN HEREIN. A DRAINAGE EASEMENT IS HEREBY ESTABLISHED FOR THE THE SOLE PURPOSE OF PROVIDING FOR THE EMERGENCY PROTECTION OF THE FREE FLOW OF SURFACE WATERS ALONG ALL WATERCOURSES AS ESTABLISHED BY THE REGULATIONS OF THE CITY OF NEWNAN. THE PUBLIC WORKS DIRECTOR MAY CONDUCT EMERGENCY MAINTENANCE OPERATIONS WITHIN THIS EASEMENT WHERE EMERGENCY CONDITIONS EXIST. EMERGENCY MAINTENANCE SHALL BE THE REMOVAL OF TREES AND OTHER DEBRIS, EXCAVATION, FILLING AND THE LIKE, NECESSARY TO REMEDY A CONDITION, WHICH IN THE JUDGMENT OF THE PUBLIC WORKS DIRECTOR, IS POTENTIALLY INJURIOUS TO LIFE, PROPERTY OF THE PUBLIC ROADS OR UTILITY SYSTEM. SUCH EMERGENCY MAINTENANCE, CONDUCTED FOR THE COMMON GOOD, SHALL NOT BE CONSTRUED AS CONSTITUTING A CONTINUING MAINTENANCE OBLIGATION ON THE PART OF THE CITY OF NEWNAN NOR AN ABRIGATION OF THE CITY'S RIGHTS TO SEEK REIMBURSEMENT FOR EXPENSES FROM THE OWNERS OF THE PROPERTY/IES OF THE LANDS THAT GENERATED THE CONDITIONS.

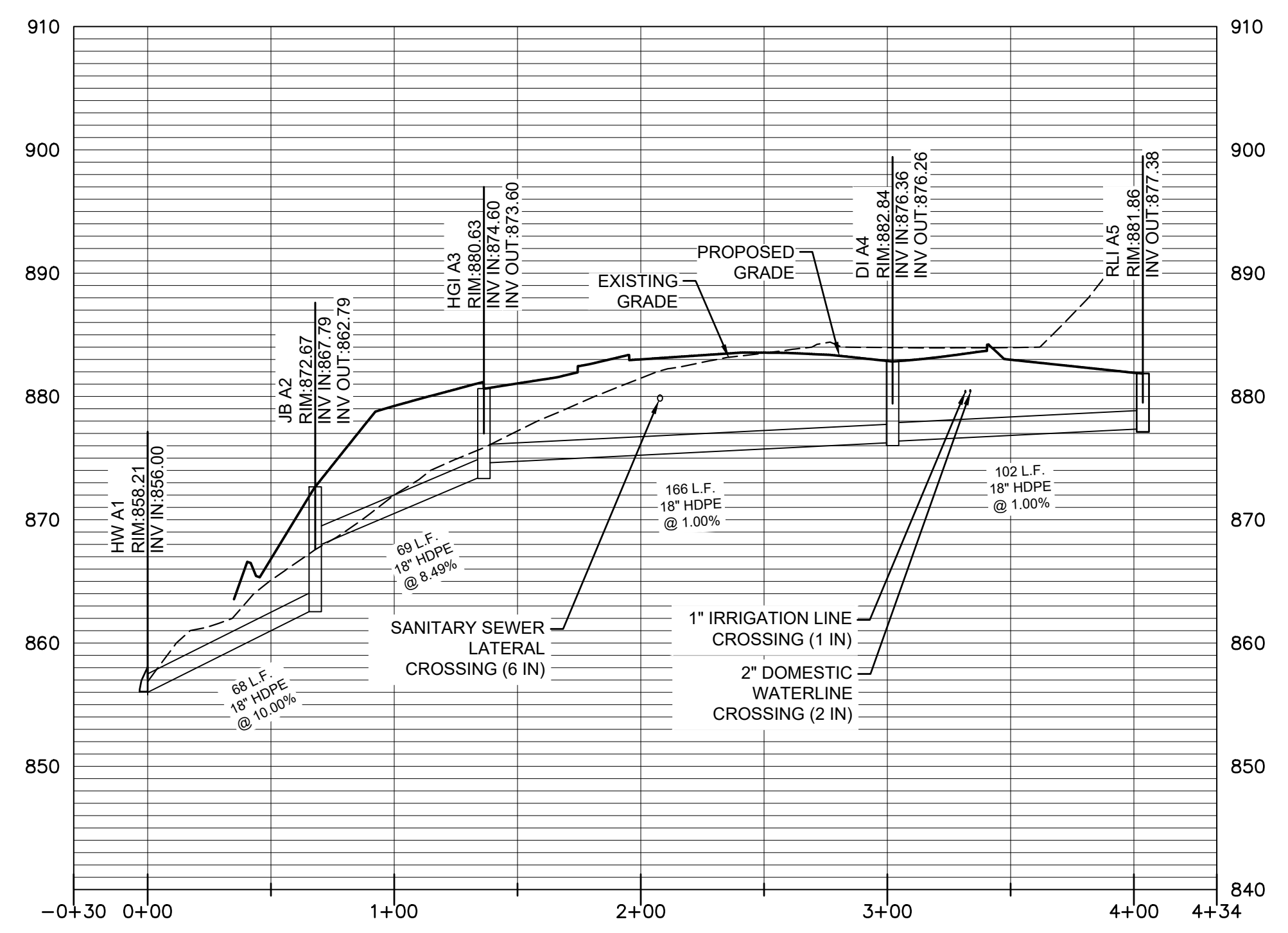
PLAN LEGEND :

- = JUNCTION BOX (JB)
- = STORM PIPE - SEE PROFILES ON SHEET C350 AND PIPE BEDDING DETAIL ON SHEET C703.
- - - 900 - - = EXISTING CONTOURS
- - - 900 - - = PROPOSED CONTOURS
- ☼ = PROPOSED LIGHT POLE
- TP = TOP OF PAVING/GUTTER
- - - - - = GRADE BREAK
- = FLOW ARROW
- (with elevation) = SPOT ELEVATION
- (with elevation) = TREE PROTECTION FENCE
- ▬ = RETAINING WALL
- ▨ = 20 FT STORMWATER ACCESS/MAINTENANCE EASEMENT



<p>DATE: 5/16/24</p> <p>DESIGN BY: EAM</p> <p>CHECK BY: RVA</p>	<p>DATE: 5/16/24</p> <p>ISSUED FOR REVIEW</p> <p>DATE: 5/16/24</p> <p>DATE: 5/16/24</p>
<p>SCALE: 1" = 30'</p>	<p>SCALE: 1" = 30'</p>
<p>GRADING AND DRAINAGE</p>	
<p>SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS</p>	
<p>LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWNAN, COWETA COUNTY, GEORGIA</p>	
<p>NOT FOR CONSTRUCTION</p> <p>DESIGNED BY: K. ALVAREZ</p>	
<p>DRAWING NO. C300</p>	





STORMLINE A
VERT 1"=10'
HORZ 1"=50'

2 YR PIPE CHART
SCALE: N.T.S.

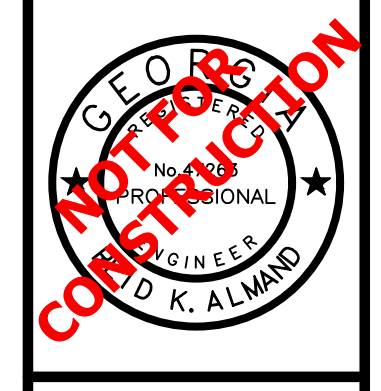
25 YR PIPE CHART
SCALE: N.T.S.

100 YR PIPE CHART
SCALE: N.T.S.

Date	Drawn by	Check by	Rev.	Description
5/6/24	EAM	RVA	1.	ISSUED FOR REVIEW
5/6/24				
5/6/24				
5/6/24				

STORM PIPE PROFILES

SITE DEVELOPMENT PLANS
FOR
B2 CONTRACTING
WORLD HEADQUARTERS
LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWMAN, COWETA COUNTY, GEORGIA



DRAWING NO.
C350



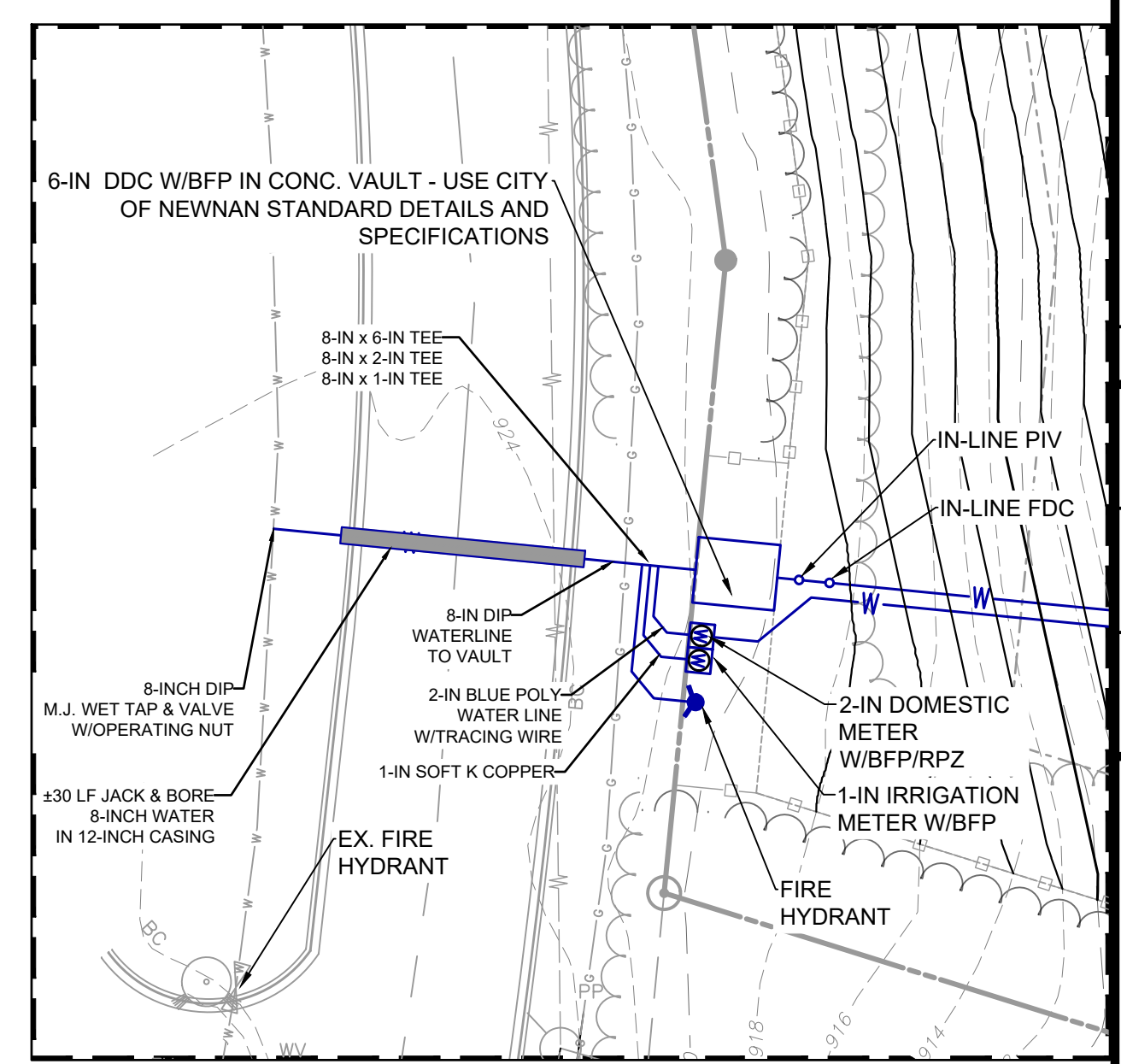
MAIN 131 LLC
 PARCEL #N57A 027
 PB 48 - PG 258
 ZONED: IHV

100 YEAR FLOOD ZONE
 AE PER FEMA FLOOD MAP
 (SEE NOTES)

100 YEAR FLOOD LINE & DRAINAGE
 ACCESS & MAINTENANCE EASEMENT
 (PER SITE DEVELOPMENT PLANS BY
 SEABOLT AND COMPANY, INC.
 DATED MAY 27, 2005)

LAYDOWN YARD
 1.71 ACRES
 (74,493 SF)

TWO-STORY
 OFFICE/SHOP
 F.F.E. = 884.0



WATER CONNECTIONS INSET
 SCALE: 1" = 20'

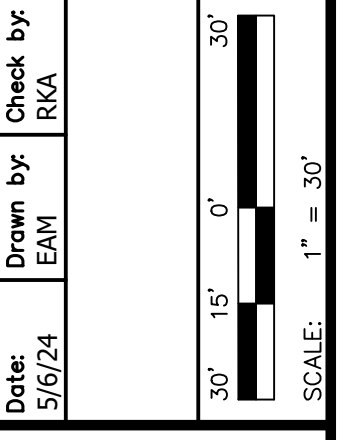
UTILITY PLAN NOTES:

1. SEE SHEET C001 FOR ADDITIONAL UTILITY PLAN NOTES.
2. EXISTING UTILITY LOCATIONS SHOWN ARE GENERALLY SCHEMATIC IN NATURE AND MAY NOT ACCURATELY REFLECT THE SIZE AND LOCATION OF EACH PARTICULAR UTILITY.
3. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION.
4. ALL EXISTING UTILITIES MAY NOT BE SHOWN ON THESE DRAWINGS. IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE HIS OPERATIONS WITH ALL UTILITIES WHICH MAY BE IN CONFLICT WITH HIS WORK.
5. THE CONTRACTOR MUST MAINTAIN AND PROTECT ALL SUCH UTILITIES, OR RELOCATE UTILITIES AS NEEDED.
6. ALL ON-SITE WATER AND SEWER FACILITIES ARE INTENDED TO BE OWNED, OPERATED, AND MAINTAINED BY THE OWNER.
7. WATER AND SEWER SERVICES SHALL HAVE MINIMUM 10 FT SEPARATION.
8. WATER AND SEWER SERVICE PROVIDED BY NEWNAN UTILITIES.
9. INTERIOR FIRE PROTECTION SPRINKLERS REQUIRED. SEE PLUMBING PLANS FOR DETAILS.
10. ALL SEWER CLEANOUTS IN CONCRETE, PAVED, ECT. AREAS SHALL HAVE HEAVY CLEANOUT BOX.
11. ALL SEWER CLEANOUTS IN GRASSED OR LANDSCAPED AREAS SHALL HAVE IRRIGATION BOX.
12. WATER/SEWER DETAILS ON SHEET C-702 AND C-703.
13. CONTRACTOR RESPONSIBLE FOR SECONDARY TO TRANSFORMER.
14. CONTRACTOR RESPONSIBLE FOR ANY COST DUE TO UNFORSEEN CONDITIONS (I.E. ROCK) IN ADDITION TO INSTALLING ELECTRICAL SERVICES.
15. SITE LIGHTING TO BE PROVIDED BY GEORGIA POWER. POLE LOCATIONS AREA AS SHOWN.
16. LOCATION OF ELECTRICAL ROUTE FROM ROAD TO TRANSFORMER, AS SHOWN, CONTRACTOR TO COORDINATE WITH GEORGIA POWER TO TIE INTO EXISTING UNDERGROUND ELECTRICAL LINES ALONG NEWNAN CROSSING BLVD.

UTILITY PLAN LEGEND:

- = WATER METER - SEE DETAIL ON SHEET C706
- = GATE VALVE
- = WATERLINE
- = FIRE HYDRANT ASSEMBLY - SEE DETAIL ON SHEET C706
- = DENOTES FITTING
- = SANITARY SEWER LINE
- = SANITARY SEWER MANHOLE - SEE DETAILS ON SHEET C705
- = SEWER CLEANOUT - SEE DETAIL ON SHEET C705
- = THRUST BLOCK - SEE DETAIL ON SHEET C706
- = TRANSFORMER
- = FEED THRU
- = 10 FT POWER EASEMENT
- = LIGHT POLE

Rev.	Description	Date	Appr.
1.	ISSUED FOR REVIEW	5/6/24	RVA



UTILITY PLAN

SITE DEVELOPMENT PLANS
 FOR
 B2 CONTRACTING
 WORLD HEADQUARTERS



LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWNAN, COWETA COUNTY, GEORGIA

DRAWING NO.
C400



GENERAL NOTES:

1. OWNER/DEVELOPER - PRIMARY PERMITTEE: (#5) 3. SURVEYOR:

B2 CONTRACTING
180 WALTER WAY #110
FAYETTEVILLE, GA 30214
CONTACT: BRANDON HARP
EMAIL: BHARP@B2CONTRACTING.COM
PHONE: (770) 789-2123

W. S. BODKIN SURVEYING, LLC
315 CAASTLEWOOD RD
TYRONE, GA 30290
CONTACT: SCOTT BODKIN, R.L.S.
PHONE: (770) 312-5500

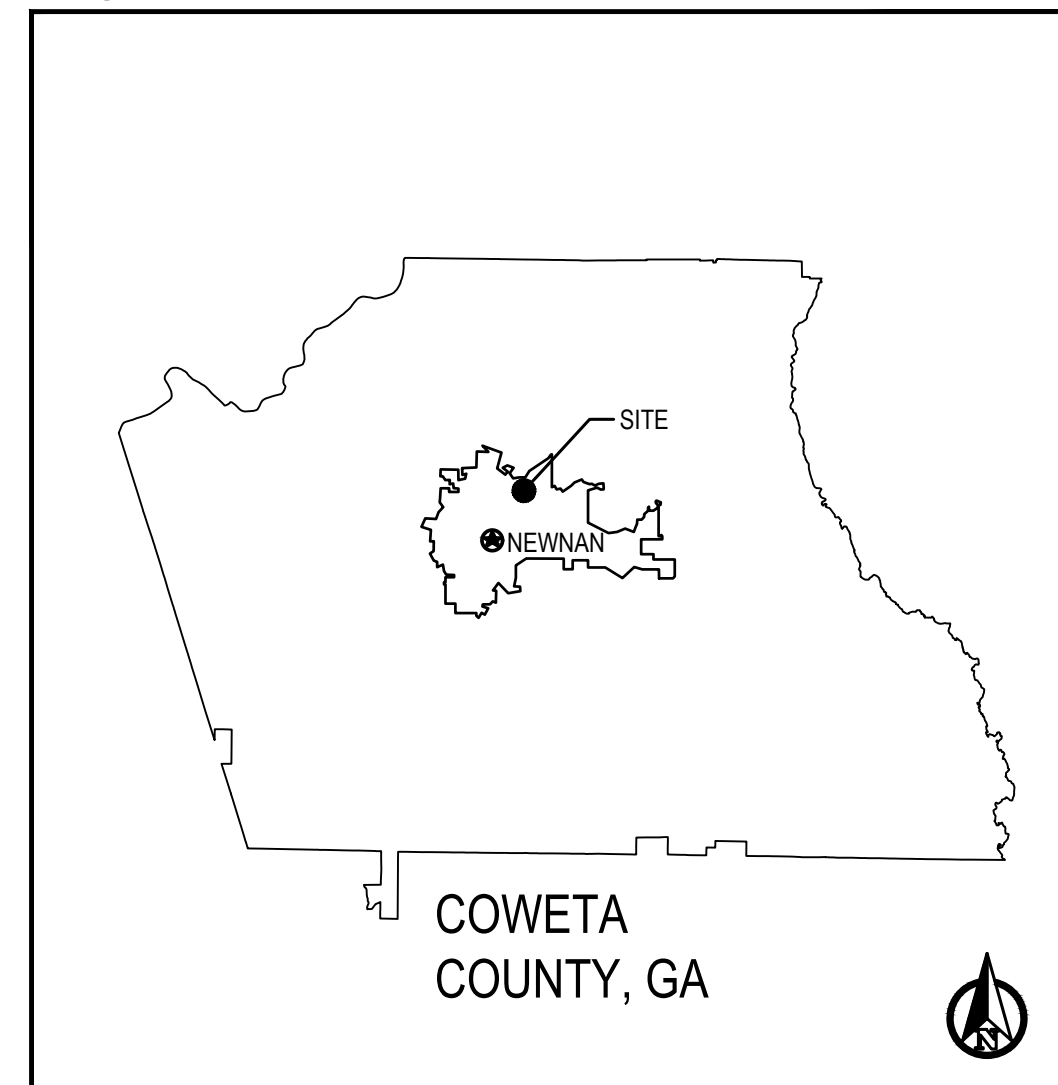
2. ENGINEER - QUALIFIED PROFESSIONAL:

HIGHLAND LAND PLANNING
201 PROSPECT PARK, SUITE A
PEACHTREE CITY, GA 30269
CONTACT: REID K ALMAND, P.E.
PHONE: REID.ALMAND@HIGHLANDLP.US
PHONE: (770) 631-0499

EROSION, SEDIMENTATION AND POLLUTION CONTROL NOTES:

- 24-HOUR CONTACT: BRANDON HARP, (770) 789-2123 (EMAIL: BHARP@B2CONTRACTING.COM) (#4)
- DISTURBED AREA: 3.90 AC.; TOTAL SITE AREA: 8.31 +/- AC.; TOTAL IMPERVIOUS AREA: 0.76 AC. (#6)
- THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES PRIOR TO LAND DISTURBING ACTIVITIES. (#19)
- EROSION CONTROL MEASURES MUST BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. (#20)
- ALL EROSION CONTROL MEASURES ARE TO CONFORM TO THE STANDARDS SET FORTH IN THE "MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA" LATEST EDITION.
- EROSION CONTROL DEVICES SHALL BE INSTALLED BEFORE GROUND DISTURBANCE OCCURS. THE LOCATION OF SOME OF THE EROSION CONTROL DEVICES MAY HAVE TO BE ALTERED FROM SHOWN ON THE APPROVED PLANS. IF DRAINAGE PATTERNS DURING CONSTRUCTION ARE DIFFERENT FROM THE FINAL PROPOSED DRAINAGE PATTERNS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO ACCOMPLISH EROSION CONTROL FOR ALL DRAINAGE PATTERNS CREATED AT VARIOUS STAGES DURING CONSTRUCTION. ANY DIFFICULTY IN CONTROLLING EROSION DURING ANY PHASE OF CONSTRUCTION SHALL BE REPORTED TO THE DEVELOPER IMMEDIATELY!
- ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING. (#21)
- SEDIMENT CONTROL MEASURES MUST BE INSTALLED BEFORE CLEARING AND GRADING BEGINS.
- INSPECTIONS BY QUALIFIED PERSONNEL PROVIDED BY PRIMARY PERMITEE AND THE ASSOCIATED RECORDS SHALL BE KEPT ON SITE IN COMPLIANCE WITH NPDES PERMIT NUMBER GAR 100001.
- THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN IS TO INSPECT THE INSTALLATION OF THE INITIAL SEDIMENT STORAGE REQUIREMENTS AND PERIMETER CONTROL BMPs WITHIN 7 DAYS AFTER INSTALLATION. (#14)
- NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 OR 50-FOOT UNDISTURBED STREAM BUFFERS AS MEASURED FROM THE POINT OF WRESTED VEGETATION OR WITHIN 25-FEET OF THE COASTAL MARSHLAND BUFFER AS MEASURED BY THE JURISDICTIONAL DETERMINATION LINE WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS. (#15)
- AMENDMENTS / REVISIONS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMPs WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL. (#17)
- THE PRIMARY PERMITTEE IS REQUIRED TO KEEP THE ES&PC PLAN UP-TO-DATE.
- STATE WATERS ARE LOCATED ON OR WITHIN 200 FEET OF THE PROJECTS BOUNDARIES.
- WASTE MATERIALS SHALL NOT BE DISCHARGED TO STATE WATERS EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. (#18)
- THE ES&PC PLAN IS IN COMPLIANCE WITH ALL CURRENT WASTE DISPOSAL, SANITARY SEWER, AND/OR SEPTIC TANK REGULATIONS.
- EROSION CONTROL MATTING, S₆, IS REQUIRED ON ALL SLOPES 3:1 OR STEEPER.
- GAB SHOULD BE PLACED IN PARKING LOT AREA AND DRIVEWAY AREAS AS SOON AS POSSIBLE FOR CONSTRUCTION TRAFFIC, WORKERS PARKING AND STAGING AREAS.
- NO ALTERNATIVE BMPs WERE USED IN THE DESIGN OF THE ES&PC PLAN. (#39)
- MAINTENANCE OF ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AND PRACTICES, WHETHER TEMPORARY OR PERMANENT SHALL AT ALL TIMES BE THE RESPONSIBILITY OF THE PROPERTY OWNER.

VICINITY MAP



Engineer Certification (#12) (#13) (#14)

"I certify under penalty of law that this plan was prepared after a site visit to the location described herein by myself or my authorized agent, under my supervision.

"I certify that the permittee's Erosion, Sedimentation and Pollution Control Plan provides for an appropriate and comprehensive system of best management practices required by the Georgia Water Quality Control Act and the document "Manual for Erosion and Sediment Control in Georgia," (published by the Georgia Soil and Water Conservation Commission as of January 1 of the year in which the land-disturbing activity was permitted, provides for the sampling of the receiving water(s) or the sampling of the storm water outfalls and that the designed system of best management practices and sampling methods is expected to meet the requirements contained in the General NPDES Permit No. GAR 100001."

Design professional of record shall inspect the site within 7 days of the construction start. The primary permittee shall notify the design professional of the construction start date prior to that start date.

REID K ALMAND, P.E. P.E. #: 47263 GSWCC#: 79754

ITEM	MONTH					
	1	3	9	12	15	18
CLEARING/DEMO	█					
INSTALL SEDIMENT STORAGE BMP'S (SEDIMENT PONDS)	█					
GRADING/DRAINAGE	█	█				
PAVING			█		█	
TEMP. GRASSING	█	█	█	█	█	█
PERM. GRASSING					█	█
MAINTENANCE OF ES & PC BMP'S	█	█	█	█	█	█
EROS. CONT.	█	█	█	█	█	█
LANDSCAPING					█	█
TREE PROTECTION	█	█	█	█	█	█

PREPARED FOR:



EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS

LAND LOT 73 & 74 OF THE 5th DISTRICT, CITY OF NEWNAN, COWETA COUNTY, GEORGIA
PARCEL ID NUMBER: N57A 001A

(#7) GPS LOCATION OF THE CONSTRUCTION EXIT
LAT: 33.3974668°
LONG: -084.7820601°

SITE LOCATION MAP (N.T.S.) (#10)



(#2) REID K ALMAND, P.E.
GA PE #47263
GSWCC LEVEL II #79754



DRAWING NO. C500

Rev.	Description	Date	Appr.
1.	ISSUED FOR REVIEW	5/6/24	RVA

Check by: RVA
Drawn by: EAM
Date: 5/6/24
EROSION CONTROL COVER

(#8) SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS
LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWNAN, COWETA COUNTY, GEORGIA



#1

EROSION, SEDIMENTATION & POLLUTION CONTROL PLAN CHECKLIST
STAND ALONE CONSTRUCTION PROJECTS

SWCD: West Georgia

Project Name: B2 Contracting World Headquarters Address: 141 Hillwood Circle

Local Issuing Authority: City of Newnan Date on Plans: 5/6/24

Name & Email of person filling out checklist: Reid K. Almand, reid.almand@highlandllp.us

Plan Included

Page # Y/N

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- 1 The applicable Erosion, Sedimentation and Pollution Control Plan Checklist established by the Commission as of January 1 of the year in which the land-disturbing activity was permitted. (The completed Checklist must be submitted with the ES&PC Plan or the Plan will not be reviewed)
2 Level II certification number issued by the Commission, signature and seal of the certified design professional. (Signature, seal and Level II number must be on each sheet pertaining to ES&PC plan or the Plan will not be reviewed)
3 Limits of disturbance shall be no greater than 50 acres at any one time without prior written authorization from the GAEPD District Office. If GAEPD approves the request to disturb 50 acres or more at any one time, the Plan must include at least 4 of the BMPs listed in Appendix 1 of this checklist and the GAEPD approval letter. (A copy of the written approval by GAEPD must be attached to the plan for the Plan to be reviewed.)
4 The name and phone number of the 24-hour contact responsible for erosion, sedimentation and pollution controls.
5 Provide the name, address, email address, and phone number of primary permittee.
6 Note total and disturbed acreages of the project or phase under construction.
7 Provide the GPS location of the construction exit for the site. Give the Latitude and Longitude in decimal degrees.
8 Initial date of the Plan and the dates of any revisions made to the Plan including the entity who requested the revisions.
9 Description of the nature of construction activity and existing site conditions.
10 Provide vicinity map showing site's relation to surrounding areas. Include designation of specific phase, if necessary.
11 Identify the project receiving waters and describe all sensitive adjacent areas including streams, lakes, residential areas, wetlands, marshlands, etc. which may be affected.
12 Design professional's certification statement and signature that the site was visited prior to development of the ES&PC Plan as stated on Part IV page 19 of the permit.
13 Design professional's certification statement and signature that the permittee's ES&PC Plan provides for an appropriate and comprehensive system of BMPs and sampling to meet permit requirements as stated on Part IV page 19 of the permit.
14 Clearly note the statement that "The design professional who prepared the ES&PC Plan is to inspect the installation of the initial sediment storage requirements and perimeter control BMPs within 7 days after installation." in accordance with Part IV.A.5 page 25 of the permit.
15 Clearly note the statement that "Non-exempt activities shall not be conducted within the 25 or 50-foot undisturbed stream buffers as measured from the point of wooded vegetation or within 25-feet of the coastal marshland buffer as measured from the Jurisdictional Determination Line without first acquiring the necessary variances and permits."
16 Provide a description of any buffer encroachments and indicate whether a buffer variance is required.
17 Clearly note the statement that "Amendments/revisions to the ES&PC Plan which have a significant effect on BMPs with a hydraulic component must be certified by the design professional."
18 Clearly note the statement that "Waste materials shall not be discharged to waters of the State, except as authorized by a Section 404 permit."
19 Clearly note statement that "The escape of sediment from the site shall be prevented by the installation of erosion and sediment control measures and practices prior to land disturbing activities."
20 Clearly note statement that "Erosion control measures will be maintained at all times. If full implementation of the approved Plan does not provide for effective erosion control, additional erosion and sediment control measures shall be implemented to control or treat the sediment source."
21 Clearly note the statement "Any disturbed area left exposed for a period greater than 14 days shall be stabilized with mulch or temporary seeding."
22 Any construction activity which discharges storm water into an Impaired Stream Segment, or within 1 linear mile upstream of and within the same watershed as, any portion of a Biotically Impaired Stream Segment must comply with Part III. C. of the permit. Include the completed Appendix 1 listing all the BMPs that will be used for those areas of the site which discharge to the Impaired Stream Segment.
23 If a TMDL Implementation Plan for sediment has been finalized for the Impaired Stream Segment (identified in Item 22 above) at least six months prior to submittal of NOI, the ES&PC Plan must address any site-specific conditions or requirements included in the TMDL Implementation Plan.
24 BMPs for concrete washdown of tools, concrete mixer chutes, hoppers and the rear of the vehicles. Washout of the drum at the construction site is prohibited.
25 Provide BMPs for the remediation of all petroleum spills and leaks.
26 Description of the measures that will be installed during the construction process to control pollutants in storm water that will occur after construction operations have been completed.
27 Description of practices to provide cover for building materials and building products on site.

TO BE SHOWN ON ES&PC PLAN

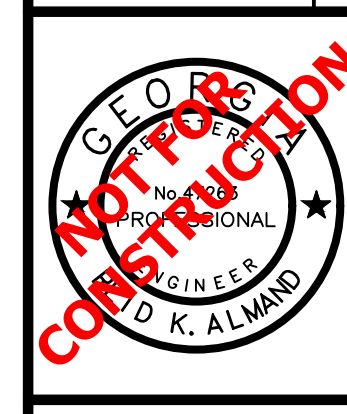
- 28 Description of the practices that will be used to reduce the pollutants in storm water discharges.
29 Description and chart or timeline of the intended sequence of major activities which disturb soils for the major portions of the site (i.e., initial perimeter and sediment storage BMPs, clearing and grubbing activities, excavation activities, utility activities, temporary and final stabilization).
30 Provide complete requirements of inspections and record keeping by the primary permittee.
31 Provide complete requirements of Sampling Frequency and Reporting of sampling results.
32 Provide complete details for Retention of Records as per Part IV.F. of the permit.
33 Description of analytical methods to be used to collect and analyze the samples from each location.
34 Appendix B rationale for NTU values at all outfall sampling points where applicable.
35 Delineate all sampling locations, perennial and intermittent streams and other water bodies into which storm water is discharged.
36 A description of appropriate controls and measures that will be implemented at the construction site including: (1) initial sediment storage requirements and perimeter control BMPs, (2) intermediate grading and drainage BMPs, and (3) final BMPs. For construction sites where there will be no mass grading and the initial perimeter control BMPs, intermediate grading and drainage BMPs, and final BMPs are the same, the Plan may combine all of the BMPs into a single phase.
37 Graphic scale and North arrow.
38 Existing and proposed contour lines with contour lines drawn at an interval in accordance with the following:
Map Scale Ground Slope Contour Intervals, ft
1 inch = 100ft or larger scale Flat 0 - 2% 0.5 or 1
Rolling 2 - 8% 1 or 2
Steep 8% + 2.5 or 10
39 Use of alternative BMPs whose performance has been documented to be equivalent to or superior to conventional BMPs as certified by a Design Professional (unless disapproved by GAEPD or the Georgia Soil and Water Conservation Commission). Please refer to the Alternative BMP Guidance Document found at www.gaswcc.ga.gov.
40 Use of alternative BMP for application to the Equivalent BMP List. Please refer to Appendix A-2 of the Manual for Erosion & Sediment Control in Georgia 2016 Edition.
41 Delineation of the applicable 25-foot or 50-foot undisturbed buffers adjacent to state waters and any additional buffers required by the Local Issuing Authority. Clearly note and delineate all areas of impact.
42 Delineation of on-site wetlands and all state waters located on and within 200 feet of the project site.
43 Delineation and acreage of contributing drainage basins on the project site.
44 Provide hydrology study and maps of drainage basins for both the pre- and post-developed conditions.
45 An estimate of the runoff coefficient or peak discharge flow of the site prior to and after construction activities are completed.
46 Storm-drain pipe and weir velocities with appropriate outlet protection to accommodate discharges without erosion. Identify/Delineate all storm water discharge points.
47 Soil series for the project site and their delineation.
48 The limits of disturbance for each phase of construction.
49 Provide a minimum of 67 cubic yards of sediment storage per acre drained using a temporary sediment basin, retrofitted detention pond, and/or excavated inlet sediment traps for each common drainage location. Sediment storage volume must be in place prior to and during all land disturbance activities until final stabilization of the site has been achieved. A written justification explaining the decision to use equivalent controls when a sediment basin is not attainable must be included in the Plan for each common drainage location in which a sediment basin is not provided. A written justification as to why 67 cubic yards of storage is not attainable must also be given. Worksheets from the Manual included for structural BMPs and all calculations used by the storage design professional to obtain the required sediment when using equivalent controls. When discharging from sediment basins and impoundments, permittees are required to utilize outlet structures that withdraw water from the surface, unless infeasible. If outlet structures that withdraw water from the surface are not feasible, a written justification explaining this decision must be included in the Plan.
50 Location of Best Management Practices that are consistent with and no less stringent than the Manual for Erosion and Sediment Control in Georgia. Use uniform coding symbols from the Manual, Chapter 6, with legend.
51 Provide detailed drawings for all structural practices. Specifications must, at a minimum, meet the guidelines set forth in the Manual for Erosion and Sediment Control in Georgia.
52 Provide vegetative plan, noting all temporary and permanent vegetative practices. Include species, planting dates and seeding, fertilizer, lime and mulching rates. Vegetative plan shall be site specific for appropriate time of the year that seeding will take place and for the appropriate geographic region of Georgia.
* If using this checklist for a project that is less than 1 acre and not part of a common development but within 200 ft of a perennial stream, the * checklist items would be N/A.

Effective January 1, 2024

Table with columns: Date, Rev., Description. Row 1: 5/6/24, 1, ISSUED FOR REVIEW. Row 2: 5/6/24, RVA, RVA.

N.P.D.E.S. CHECKLIST

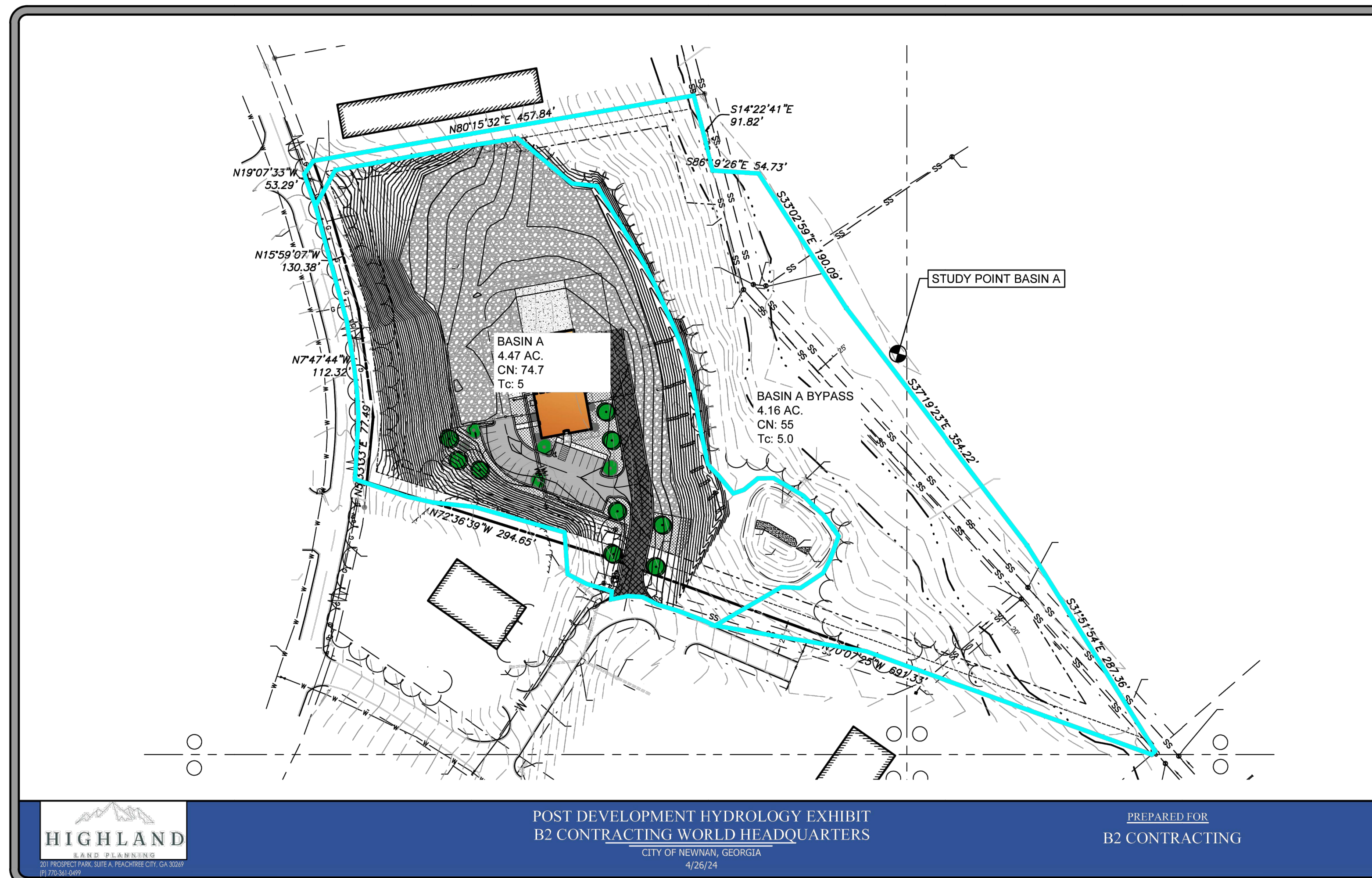
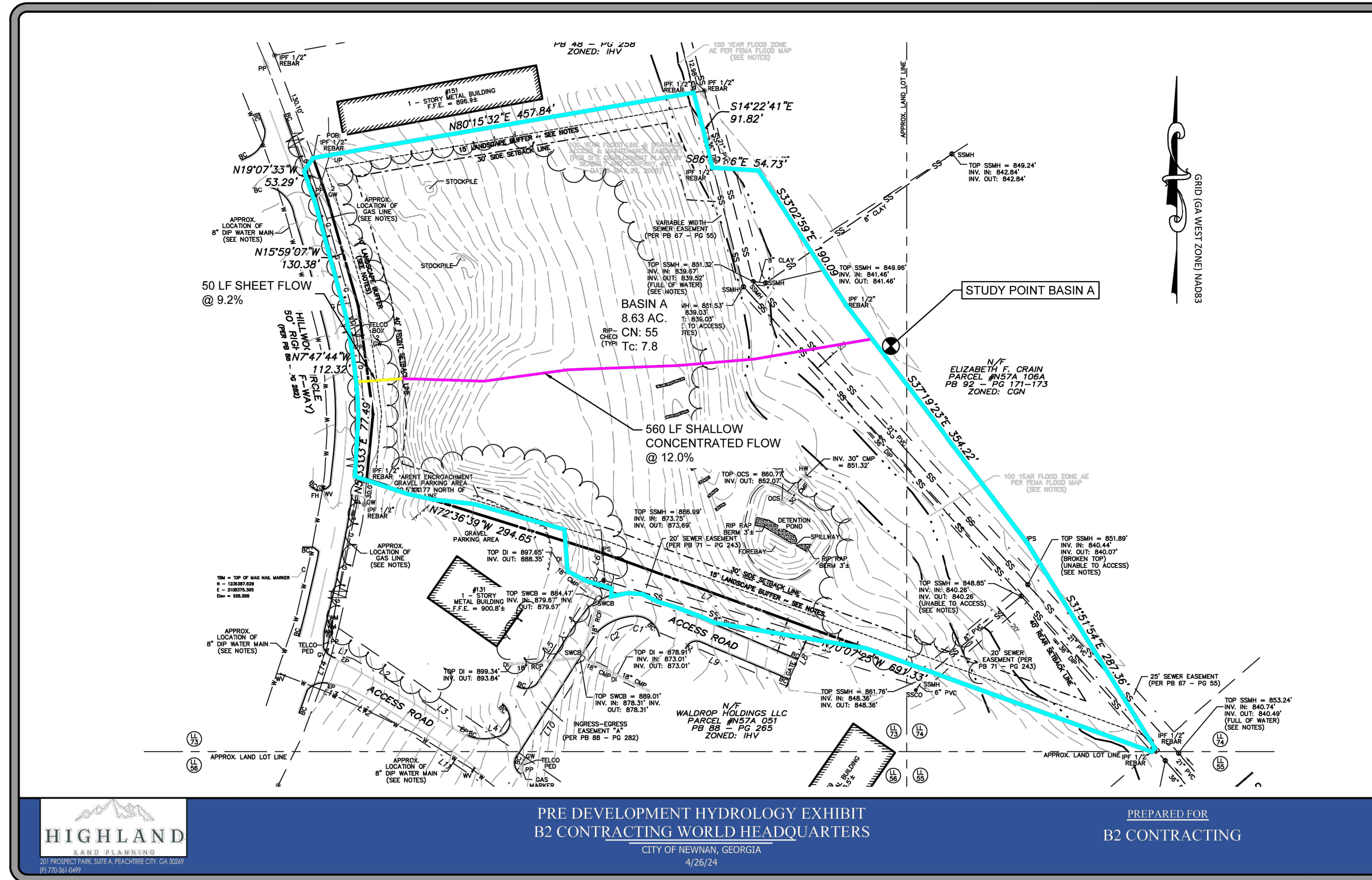
SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWNAN, COWETA COUNTY, GEORGIA



REID K. ALMAND, P.E. GA PE #47263 GSWCC LEVEL II #79754



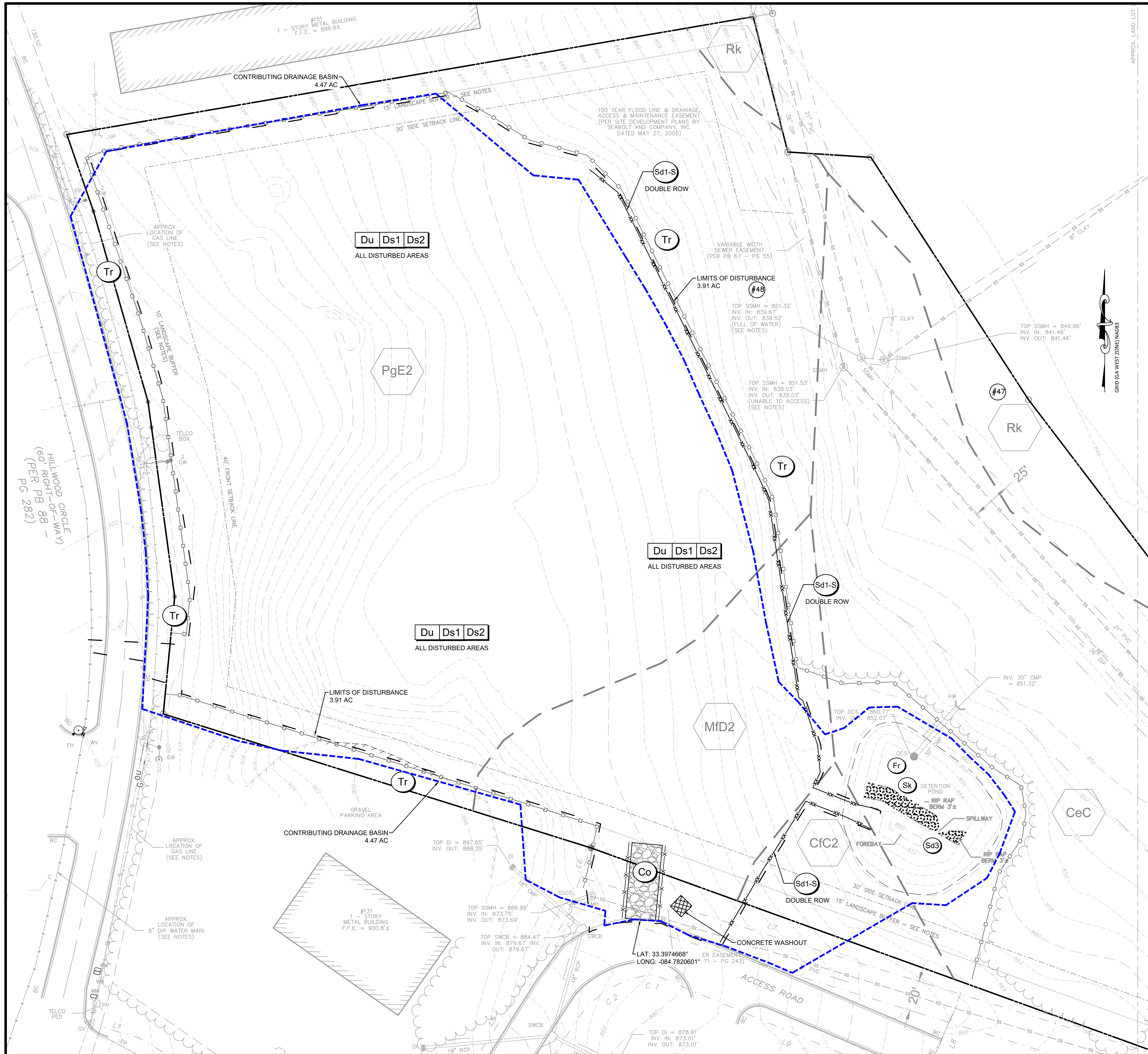
DRAWING NO. C502



REID K ALMAND, P.E.
 GA PE #47263
 GSWCC LEVEL II #79754



DATE: 5/16/24		Drawn By: EAM	Check By: RKA	Rev. Description
				1. ISSUED FOR REVIEW
				5/6/24 RKA
				Date
				Apr
DRAINAGE BASINS				
SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWMAN, COWETA COUNTY, GEORGIA				
				DRAWING NO.
				C503



#50 STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retarding cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP. SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.

INITIAL PHASE EROSION AND SEDIMENT CONTROL:

- THE PERIMETER SILT FENCE AND INLET SEDIMENT TRAPS SD2-A AND SD2-B, SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES.
- ALL AREAS OF DISTURBANCE WILL RECEIVE TEMPORARY GRASSING IF LEFT IDLE.
- DUST CONTROL WILL BE UTILIZED AS NECESSARY.
- SILT FENCE AND SEDIMENT TRAPS WILL BE CLEANED OUT OR EXCAVATED ONCE ONE-THIRD OF THE STORAGE DEPTH IS OBTAINED.

PRE Developed Basin A

Land Cover	HSG	CN	Area (acre)	AxCN
Wooded	B	55	8.63	474.65
			55.00	8.63

LEGEND

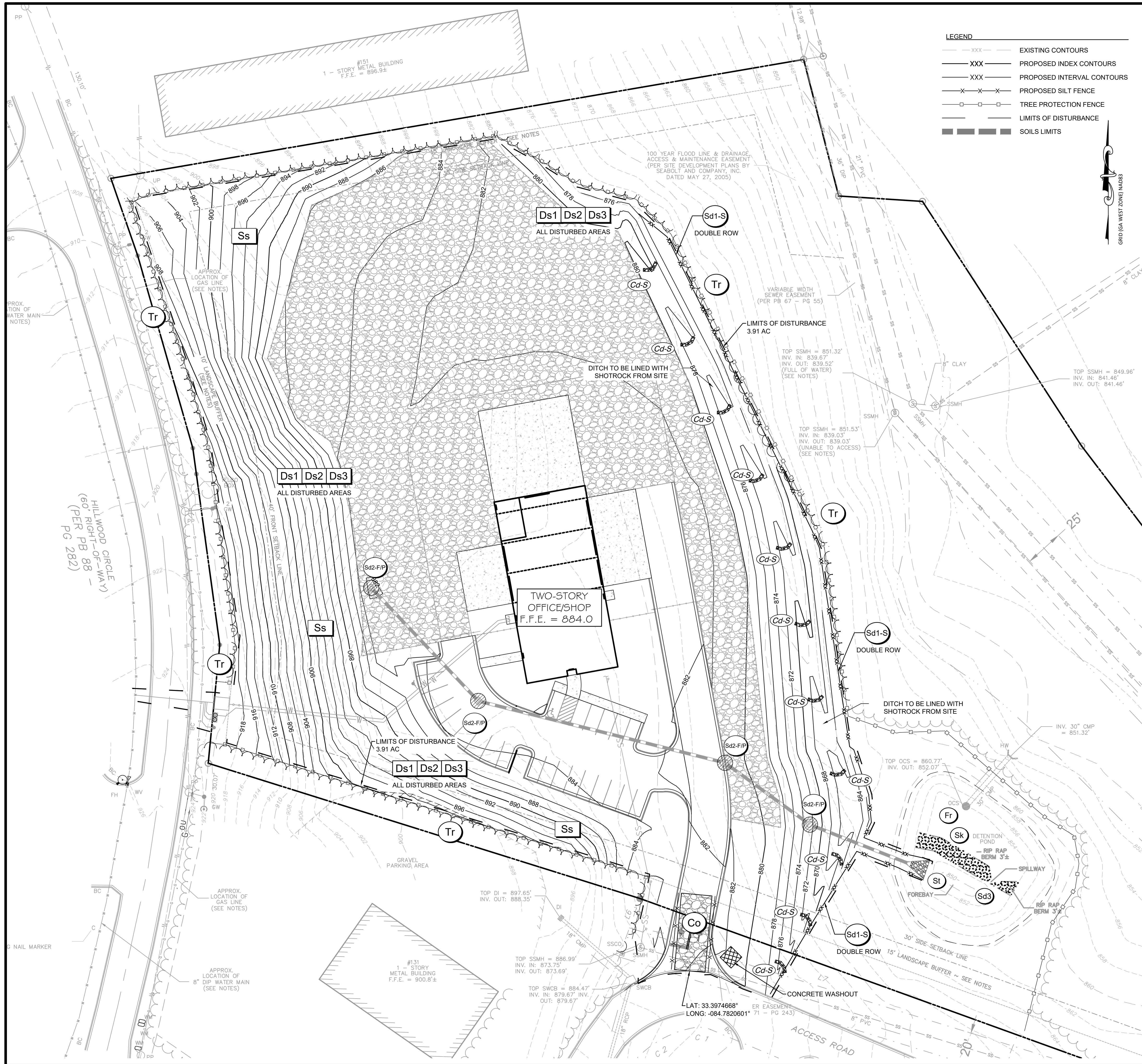
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- XXX --- PROPOSED INDEX CONTOURS
- XXX --- PROPOSED INTERVAL CONTOURS
- X-X-X- PROPOSED SILT FENCE
- □ □ TREE PROTECTION FENCE
- LIMITS OF DISTURBANCE
- ■ ■ ■ ■ SOILS LIMITS

#2 REID K ALMAND, P.E.
GA PE #47263
GSWCC LEVEL II #79754



INITIAL PHASE EROSION AND SEDIMENTATION CONTROL PLAN	SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS	DRAWING NO. C510
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DATE: 5/16/24
 DRAWN BY: EAM
 CHECK BY: RKA
 ISSUED FOR REVIEW: 5/16/24
 SCALE: 1" = 30'
 REVISIONS: 1. ISSUED FOR REVIEW



LEGEND

- XXX --- EXISTING CONTOURS
- XXX --- PROPOSED INDEX CONTOURS
- XXX --- PROPOSED INTERVAL CONTOURS
- X - X - X - PROPOSED SILT FENCE
- □ □ □ TREE PROTECTION FENCE
- ○ --- LIMITS OF DISTURBANCE
- ■ ■ ■ SOILS LIMITS

#50 STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush, logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Cd	CHECKDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.

INTERMEDIATE PHASE EROSION AND SEDIMENT CONTROL:

- INTERMEDIATE PHASE WILL BEGIN ONCE THE PROJECT MOVES INTO FULL LAND DISTURBANCE.
- EXCAVATED SEDIMENT TRAPS (Sd2'S) WILL BE IMPLEMENTED AROUND THE STRUCTURES AS SHOWN HEREIN.
- CONCRETE WASHOUT WILL OCCUR ONLY IN THE AREA SPECIFIED.
- ALL AREAS OF DISTURBANCE WILL RECEIVE TEMPORARY GRASSING IF LEFT IDLE.
- DUST CONTROL WILL BE UTILIZED AS NECESSARY.
- SILT FENCE AND SEDIMENT TRAPS WILL BE CLEANED OUT OR EXCAVATED ONCE ONE-THIRD OF THE STORAGE DEPTH IS OBTAINED.

PRE Developed Basin A

Land Cover	HSG	CN	Area (acre)	AxCN
Wooded	B	55	8.63	474.65
			55.00	8.63

POST Developed Basin A1

Land Cover	HSG	CN	Area (acre)	AxCN
Impervious Areas	B	98	0.76	74.48
Open Space	B	61	2.33	142.13
Gravel	B	85	1.38	117.30
			74.70	4.47

POST Developed Basin A2

Land Cover	HSG	CN	Area (acre)	AxCN
Wooded Areas	B	55	4.16	228.80
			55.00	4.16

#2 REID K ALMAND, P.E.
GA PE #47263
GSWCC LEVEL II #79754



DATE: 5/16/24
 DRAWN BY: EAM
 CHECKED BY: RKA
 ISSUED FOR REVIEW: 5/16/24
 RKA
 Date: 5/16/24
 Description: 1. ISSUED FOR REVIEW

INTERMEDIATE PHASE EROSION AND SEDIMENT CONTROL PLAN

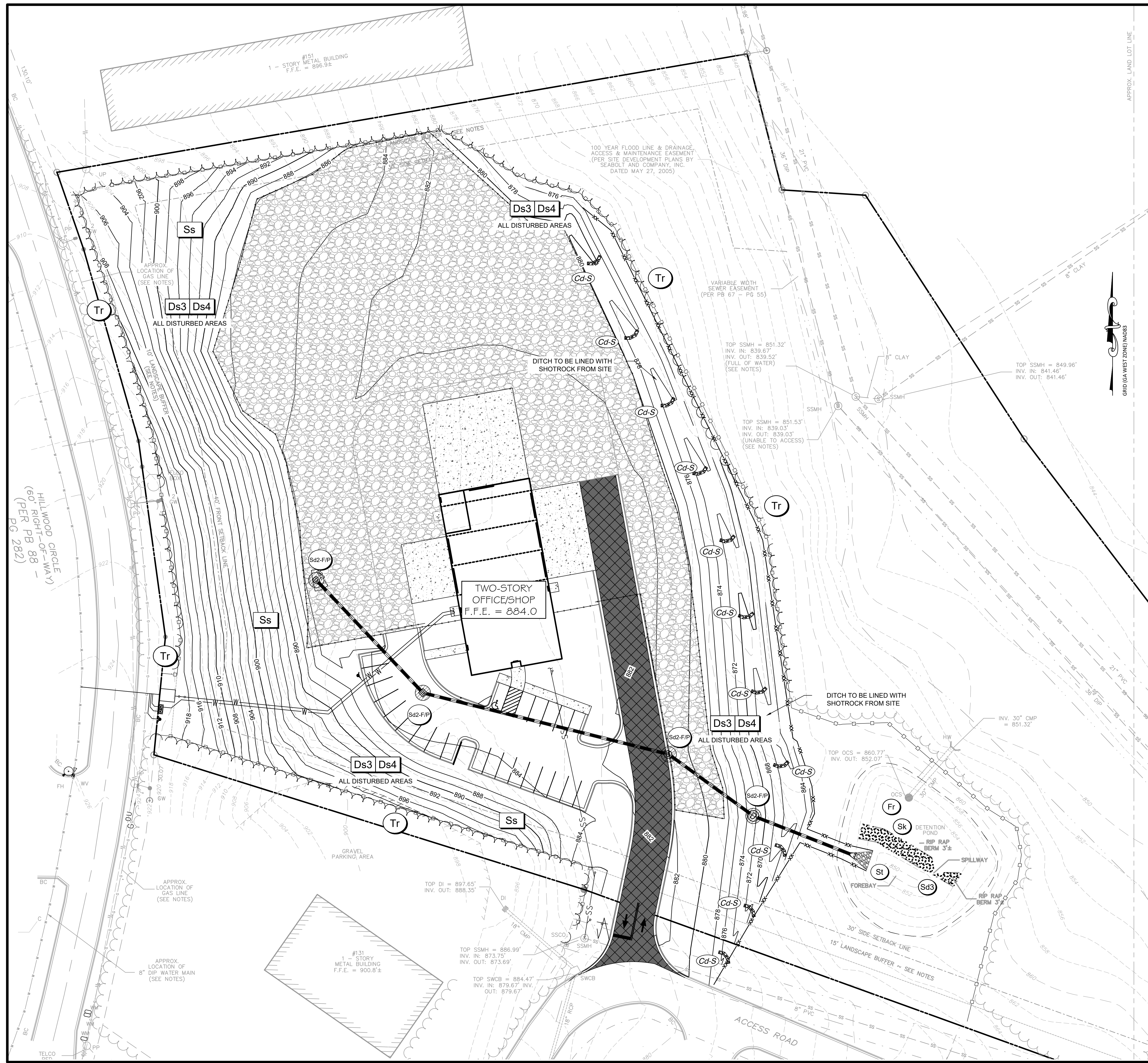
SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS

LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWMAN, COWETA COUNTY, GEORGIA

NOT FOR CONSTRUCTION

REID K. ALMAND, P.E.

DRAWING NO. C520



VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)		Ds3	Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SOODING)		Ds4	A permanent vegetative cover using sods on highly erodable or critically eroded lands.
Ss	SLOPE STABILIZATION		Ss	A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.

FINAL PHASE EROSION AND SEDIMENT CONTROL:

- THE FINAL PHASE OCCURS ONCE THE SITE IS PAVED AND FULLY STABILIZED WITH PERMANENT GRASSING.
- ONCE SITE IS FULLY STABILIZED, ALL SEDIMENT TRAPS WILL BE REMOVED.
- PARKING AREAS TO BE SWEEPED AND ALL CONSTRUCTION DEBRIS TO BE COLLECTED AND DISPOSED OF.
- STORM SYSTEM TO BE FLUSHED/OR VACUUMED PRIOR TO TURN-OVER.
- LIMITS OF Ds4 (SOD) TO BE PROVIDED ON THE LANDSCAPE PLAN.

LEGEND

	EXISTING CONTOURS
	PROPOSED INDEX CONTOURS
	PROPOSED INTERVAL CONTOURS
	PROPOSED SILT FENCE
	TREE PROTECTION FENCE
	LIMITS OF DISTURBANCE
	SOILS LIMITS

Date: 5/6/24	Drawn by: EAM	Check by: RKA	Date: 5/6/24	Date: 5/6/24	Date: 5/6/24
FINAL PHASE EROSION AND SEDIMENTATION CONTROL PLAN			SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS		
LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWMAN, COWETA COUNTY, GEORGIA					
#2 REID K ALMAND, P.E. GA PE #47263 GSWCC LEVEL II #79754					
DRAWING NO. C530					

Ds1 MULCHING SPECIFICATIONS:

MULCH OR TEMPORARY GRASSING SHALL BE APPLIED TO ALL EXPOSED AREAS WITHIN 14 DAYS OF DISTURBANCE. MULCH CAN BE USED AS A SINGLE EROSION CONTROL DEVICE FOR UP TO SIX MONTHS, BUT IT SHALL BE APPLIED AT THE APPROPRIATE DEPTH, DEPENDING ON THE MATERIAL USED, ANCHORED, AND HAVE CONTINUOUS 90% COVER OR GREATER OF THE SOIL SURFACE. MAINTENANCE SHALL BE REQUIRED TO MAINTAIN APPROPRIATE DEPTH AND 90% COVER. TEMPORARY VEGETATION MAY BE EMPLOYED INSTEAD OF MULCH IF THE AREA WILL REMAIN UNDISTURBED FOR LESS THAN SIX MONTHS. IF AN AREA WILL REMAIN UNDISTURBED FOR GREATER THAN SIX MONTHS, PERMANENT VEGETATION TECHNIQUES SHALL BE EMPLOYED.

SITE PREPARATION

- 1. GRADE TO PERMIT THE USE OF EQUIPMENT FOR APPLYING AND ANCHORING MULCH.
2. INSTALL NEEDED EROSION CONTROL MEASURES AS REQUIRED SUCH AS DIKES, DIVERSIONS, BERMS, TERRACES, AND SEDIMENT BARRIERS.
3. LOOSEN COMPACT SOIL TO A MINIMUM DEPTH OF 3 INCHES.

APPLYING MULCH

- WHEN MULCH IS USED WITHOUT SEEDING, MULCH SHALL BE APPLIED TO PROVIDE FULL COVERAGE OF THE EXPOSED AREA.
1. DRY STRAW OR HAY MULCH AND WOOD CHIPS SHALL BE APPLIED UNIFORMLY BY HAND OR BY MECHANICAL EQUIPMENT.
2. IF THE AREA WILL EVENTUALLY BE COVERED WITH PERENNIAL VEGETATION, 20-30 POUNDS OF NITROGEN PER ACRE IN ADDITION TO THE NORMAL AMOUNT SHALL BE APPLIED TO OFFSET THE UPTAKE OF NITROGEN CAUSED BY THE DECOMPOSITION OF THE ORGANIC MULCHES.
3. CUTBACK ASPHALT SHALL BE APPLIED UNIFORMLY. CARE SHOULD BE TAKEN IN AREAS OF PEDESTRIAN TRAFFIC DUE TO PROBLEMS OF "TRACKING IN" OF DAMAGE TO SHOES, CLOTHING, ETC.
4. APPLY POLYETHYLENE FILM ON EXPOSED AREAS.

ANCHORING MULCH

- 1. STRAW OR HAY MULCH CAN BE PRESSED INTO THE SOIL WITH A DISK HARROW WITH THE DISK SET STRAIGHT OR WITH A SPECIAL "PACKER DISK". DISKS MAY BE SMOOTH OR SERRATED AND SHOULD BE 20 INCHES OR MORE IN DIAMETER AND 8 TO 12 INCHES APART. THE EDGES OF THE DISK SHOULD BE DULL ENOUGH NOT TO CUT THE MULCH BUT TO PRESS IT INTO THE SOIL LEAVING MUCH OF IT IN AN ERECT POSITION. STRAW OR HAY MULCH SHALL BE ANCHORED IMMEDIATELY AFTER APPLICATION. STRAW OR HAY MULCH SPREAD WITH SPECIAL BLOWER-TYPE EQUIPMENT MAY BE ANCHORED WITH EMULSIFIED ASPHALT (GRADE AE-5 OR SS-1). THE ASPHALT EMULSION SHALL BE SPRAYED ONTO THE MULCH AS IT IS EJECTED FROM THE MACHINE. USE 100 GALLONS OF EMULSIFIED ASPHALT AND 100 GALLONS OF WATER PER TON OF MULCH. TACKIFIERS AND BINDERS CAN BE SUBSTITUTED FOR EMULSIFIED ASPHALT. PLEASE REFER TO SPECIFICATION T6-TACKIFIERS AND BINDERS. PLASTIC MESH OR NETTING WITH MESH NO LARGER THAN ONE INCH BY ONE INCH SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. NETTING OF THE APPROPRIATE SIZE SHALL BE USED TO ANCHOR WOOD WASTE. OPENINGS OF THE NETTING SHALL NOT BE LARGER THAN THE AVERAGE SIZE OF THE WOOD WASTE CHIPS.
3. POLYETHYLENE FILM SHALL BE ANCHOR TRENCHED AT THE TOP AS WELL AS INCREMENTALLY AS NECESSARY.

Ds2 TEMPORARY SEEDING SPECIFICATIONS:

A. GRADING AND SHAPING

- EXCESSIVE WATER RUNOFF MUST BE CONTROLLED BY PLANNED AND INSTALLED EROSION CONTROL PRACTICES SUCH AS CLOSED DRAINS, DITCHES, DIKES, DIVERSIONS, SEDIMENT BASINS, AND OTHERS.

B. SEEDBED PREPARATION

- WHEN A HYDRAULIC SEEDER IS USED, SEEDBED PREPARATION IS NOT REQUIRED.
2. WHEN USING CONVENTIONAL OR HAND-SEEDING, SEEDBED PREPARATION IS NOT REQUIRED IF THE SOIL MATERIAL IS LOOSE AND NOT SEALED BY RAINFALL.
3. WHEN SOIL HAS BEEN SEALED BY RAINFALL OR CONSISTS OF SMOOTH UNDISTURBED CUT SLOPES, THE SOIL SHALL BE FITTED, TRENCHED, OR OTHERWISE SCARIFIED TO PROVIDE A PLACE FOR SEED TO LODGE AND GERMINATE.

C. LIME AND FERTILIZER

- AGRICULTURAL LIME IS NOT REQUIRED.
2. ON REASONABLY FERTILE SOILS OR SOIL MATERIAL, FERTILIZER IS NOT REQUIRED.
3. ON SOILS OF VERY LOW FERTILITY, USE 500 TO 700 POUNDS 10-10-10 FERTILIZER OR THE EQUIVALENT PER ACRE (12-16 lbs./1000 sq. ft.). IF THE SITE WILL PERMIT, APPLY BEFORE LAND PREPARATION AND DISK, RIP, OR CHISEL TO INCORPORATE.

D. SEEDING

- SELECT A GRASS OR GRASS-LEGUME MIXTURE SUITABLE TO THE AREA AND SEASON OF THE YEAR.
2. APPLY SEED UNIFORMLY BY HAND, CYCLONE SEEDER, DRILL, CULTIPACKER-SEEDER, OR HYDRAULIC SEEDER (SLURRY INCLUDING SEED AND FERTILIZER).
DRILL OR CULTIPACKER-SEEDERS SHOULD NORMALLY PLACE SEED ONE-HALF TO ONE INCH DEEP.

E. MULCHING

- TEMPORARY VEGETATION CAN, IN MOST CASES, BE ESTABLISHED WITHOUT THE USE OF MULCH. MULCH WITHOUT SEEDING SHOULD BE CONSIDERED FOR SHORT TERM PROTECTION. SEE Ds1 - DISTURBED AREA STABILIZATION (WITH MULCHING ONLY).

F. IRRIGATION

- IF WATER IS APPLIED, IT MUST BE AT A RATE NOT CAUSING RUNOFF AND EROSION. THOROUGHLY WET THE SOIL TO A DEPTH THAT WILL INSURE GERMINATION OF THE SEED. SUBSEQUENT APPLICATIONS SHOULD BE MADE WHEN NEEDED.

* REVISED 7/01 PER 5TH EDITION OF MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.

Ds3 PERMANENT SEEDING SPECIFICATIONS:

A. GRADING AND SHAPING

- GRADING AND SHAPING IS NOT NORMALLY REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED. VERTICAL BANKS SHALL BE SLOPED TO ENABLE PLANT ESTABLISHMENTS.

B. SEEDBED PREPARATION

- SEEDBED PREPARATION MAY NOT BE REQUIRED WHERE HYDRAULIC SEEDING AND FERTILIZING EQUIPMENT IS TO BE USED.
2. WHEN CONVENTIONAL SEEDING IS TO BE USED, SEEDBED PREPARATION WILL BE DONE AS FOLLOWS:
A. BROADCAST PLANTING
1. TILLAGE AT A MINIMUM, SHALL ADEQUATELY LOOSEN THE SOIL TO A DEPTH OF 4 TO 6 INCHES; ALLEVIATE COMPACTION; INCORPORATE LIME AND FERTILIZER; SMOOTH AND FIRM THE SOIL; ALLOW FOR THE PROPER PLACEMENT OF SEED SPRIGS, OR PLANTS; AND ALLOW FOR THE ANCHORING OF STRAW OR HAY MULCH IF A DISK IS TO BE USED.

C. LIME AND FERTILIZER - RATES AND ANALYSIS

- WHERE PERMANENT VEGETATION IS TO BE ESTABLISHED, AGRICULTURAL LIME SHALL BE APPLIED AS INDICATED BY SOIL TEST OR AT THE RATE OF 1 TO 2 TONS PER ACRE. AGRICULTURAL LIME SHALL BE WITHIN THE SPECIFICATIONS OF THE GEORGIA DEPARTMENT OF AGRICULTURE.
2. LIME SPREAD BY CONVENTIONAL EQUIPMENT WILL BE "GROUND LIMESTONE". GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 90 PERCENT OF THE MATERIAL WILL PASS THROUGH A 10-MESH SIEVE AND NOT LESS THAN 25 PERCENT WILL PASS THROUGH A 100-MESH SIEVE.
3. AGRICULTURAL LIME SPREAD BY HYDRAULIC SEEDING EQUIPMENT WILL BE "FINELY GROUND LIMESTONE." FINELY GROUND LIMESTONE IS CALCITIC OR DOLOMITIC LIMESTONE GROUND SO THAT 98 PERCENT OF THE MATERIAL WILL PASS THROUGH A 20-MESH SIEVE AND NOT LESS THAN 70 PERCENT WILL PASS THROUGH A 100-MESH SIEVE.

D. LIME AND FERTILIZER - APPLICATION

- WHEN HYDRAULIC SEEDING EQUIPMENT IS USED:
A. THE INITIAL FERTILIZER WILL BE MIXED WITH SEED, INOCULANT (IF NEEDED) AND WOOD CELLULOSE OR WOOD PULP FIBER MULCH AND APPLIED IN A SLURRY. THE SLURRY WILL BE AGITATED DURING APPLICATION TO KEEP THE INGREDIENTS THOROUGHLY MIXED. THE MIXTURE WILL BE SPREAD UNIFORMLY OVER THE AREA WITHIN ONE HOUR AFTER BEING PLACED IN THE HYDROSEEDER.
B. FINELY GROUND LIMESTONE WILL BE MIXED WITH WATER AND APPLIED IMMEDIATELY AFTER MULCHING IS COMPLETED OR IN COMBINATION WITH THE TOP DRESSING.
2. WHEN CONVENTIONAL PLANTING IS TO BE DONE, LIME AND FERTILIZER WILL BE APPLIED UNIFORMLY IN ONE OF THE FOLLOWING WAYS:
A. APPLY BEFORE LAND PREPARATION SO THAT IT WILL BE MIXED WITH THE SOIL DURING SEEDBED PREPARATION; OR,
B. MIX WITH THE SOIL USED TO FILL THE HOLES, DISTRIBUTE IN FURROWS; OR,
C. BROADCAST AFTER STEEP SURFACES AND SCARIFIED, FITTED OR TRENCHED.
D. A FERTILIZER PELLET WILL BE PLACED AT ROOT DEPTH.

* REVISED 7/01 PER 5TH EDITION OF MANUAL FOR EROSION & SEDIMENT CONTROL IN GEORGIA.

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDINGS)

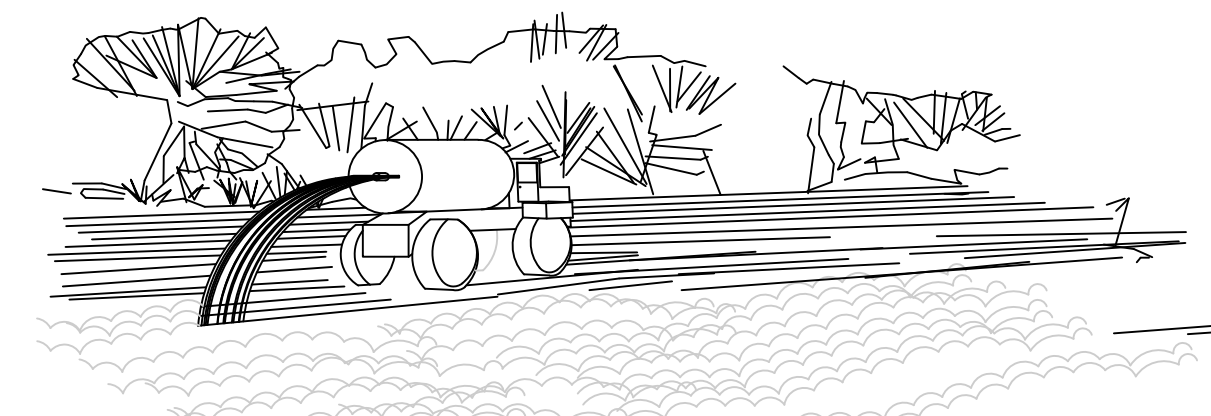
Table with columns: SPECIES, BROADCAST RATES 2/- PLS 3/, RESOURCE AREA, PLANTING RATES BY RESOURCE AREA PLANTING DATES (OPTIMUM, PERMISSIBLE BUT MARGINAL), and REMARKS. Rows include Millet, Pearl, Ryegrass, and Sudangrass.

Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT SEEDINGS)

Table with columns: SPECIES, BROADCAST RATES 2/- PLS 3/, RESOURCE AREA, PLANTING RATES BY RESOURCE AREA PLANTING DATES (OPTIMUM, PERMISSIBLE BUT MARGINAL), and REMARKS. Rows include Bermuda, Common, Fescue, Tall, Lespedeza, Scarified, Unscarified, and Lovegrass.

PERMANENT METHODS:
PERMANENT VEGETATION - REFER TO Ds3 (DISTURBED AREA STABILIZATION WITH PERMANENT VEGETATION)
TOPSOILING - COVERING THE SURFACE WITH A LESS EROSION SOIL MATERIAL
STONE - SURFACE WITH CRUSHED STONE OR COARSE GRAVEL (SEE C7 - CONSTRUCTION ROAD STABILIZATION)

TEMPORARY METHODS:
MULCHES - REFER TO Ds1 (DISTURBED AREA STABILIZATION)
VEGETATIVE COVER - REFER TO Ds2 (DISTURBED AREA STABILIZATION WITH TEMPORARY SEEDING)
TILLAGE - ROUGHEN AND BRING CLODS TO THE SURFACE BY USE OF CHISEL-TYPE PLOWS SPACED ABOUT 12 INCHES APART
IRRIGATION - SITE SPRINKLED WITH WATER UNTIL WET. REPEAT AS NEEDED
BARRIERS - FENCES, HAY BALES, AND CRATE WALLS PLACED AT INTERVALS 15 TIMES THEIR HEIGHT AND PERPENDICULAR TO AIR CURRENTS
CALCIUM CHLORIDE - APPLY TO KEEP SURFACE WET. REPEAT AS NEEDED.



DUST CONTROL

N.T.S.

Du

Diagram and text for sod installation. Includes 'LAY SOD IN A STAGGERED PATTERN', 'INCORRECT' vs 'CORRECT' sod placement, 'ROLL SOD IMMEDIATELY TO ACHIEVE FIRM CONTACT WITH THE SOIL', and 'WATER TO A DEPTH OF 4" AS NEEDED. WATER WELL AS SOON AS THE SOD IS LAID.'.

Diagram and text for sod maintenance. Includes 'APPEARANCE OF GOOD SOD' showing grass growth and 'THATCH - GRASS CLIPPINGS AND DEAD LEAVES, UP TO 1/2" THICK. ROOT ZONE - SOIL AND ROOTS. SHOULD BE 1/2"-3/4" THICK, WITH DENSE ROOT MAT FOR STRENGTH.'

FERTILIZER REQUIREMENTS FOR SOD table with columns: TYPES OF SPECIES, PLANTING YEAR, FERTILIZER (N-P-K), RATE (LBS/ACRE), NITROGEN TOP DRESSING RATE (LBS/ACRE). Includes 'MAINTENANCE: RE-SOD AREAS WHERE AN ADEQUATE STAND OF SOD IS NOT OBTAINED...' and 'SODDING' section.

#52 DISTURBED AREA STABILIZATION WITH MULCHING, TEMPORARY SEEDINGS AND PERMANENT SEEDINGS SCALE: NTS DATE: 1/24/04

Ds1 Ds2 Ds3

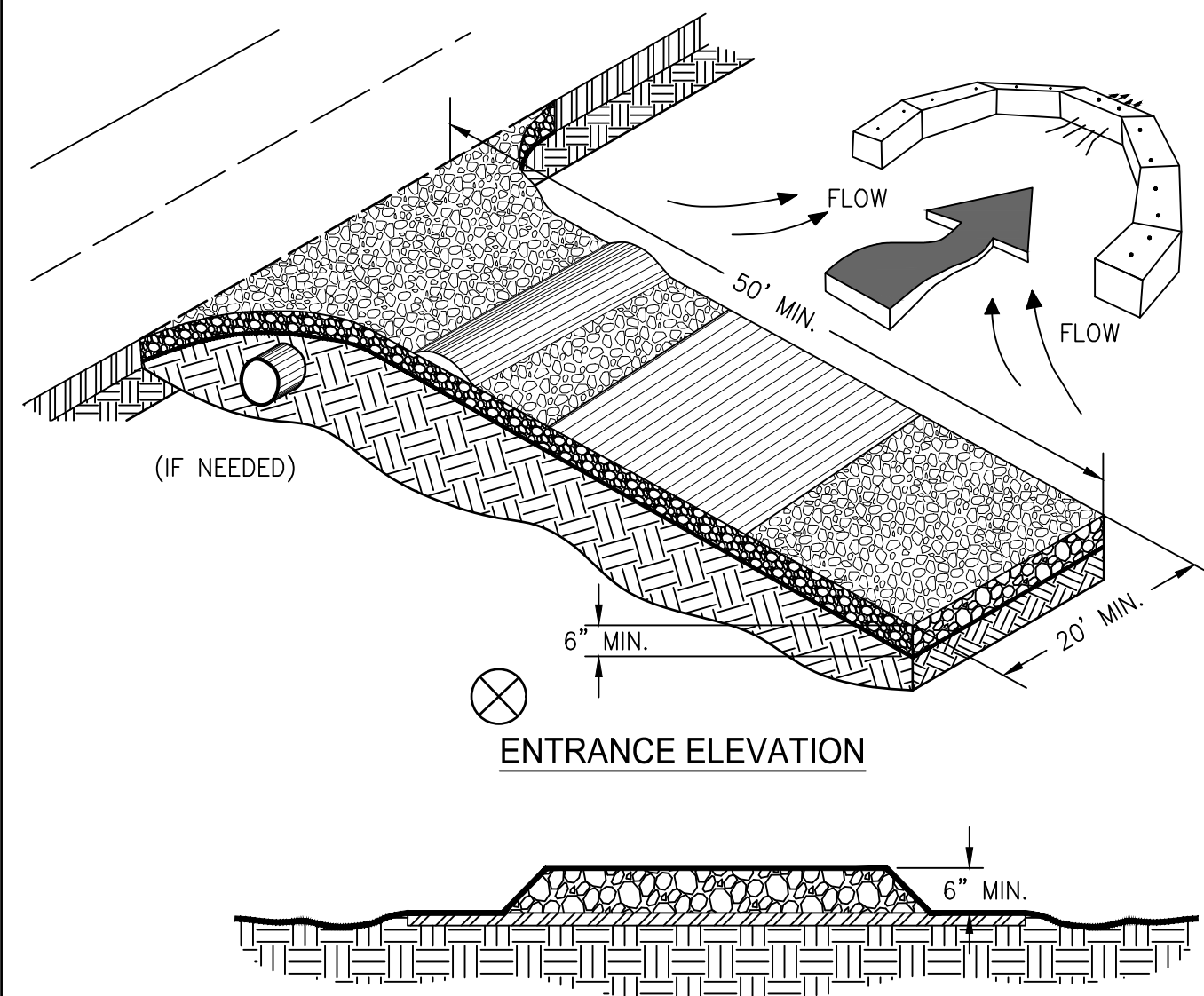
REID K ALMAND, P.E. GA PE #47263 GSWCC LEVEL II #79754



Vertical sidebar containing: EROSION DETAILS, B2 CONTRACTING WORLD HEADQUARTERS, SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS, LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWMAN, COWETA COUNTY, GEORGIA, DRAWING NO. C600, and a circular stamp for Reid K. Almand.

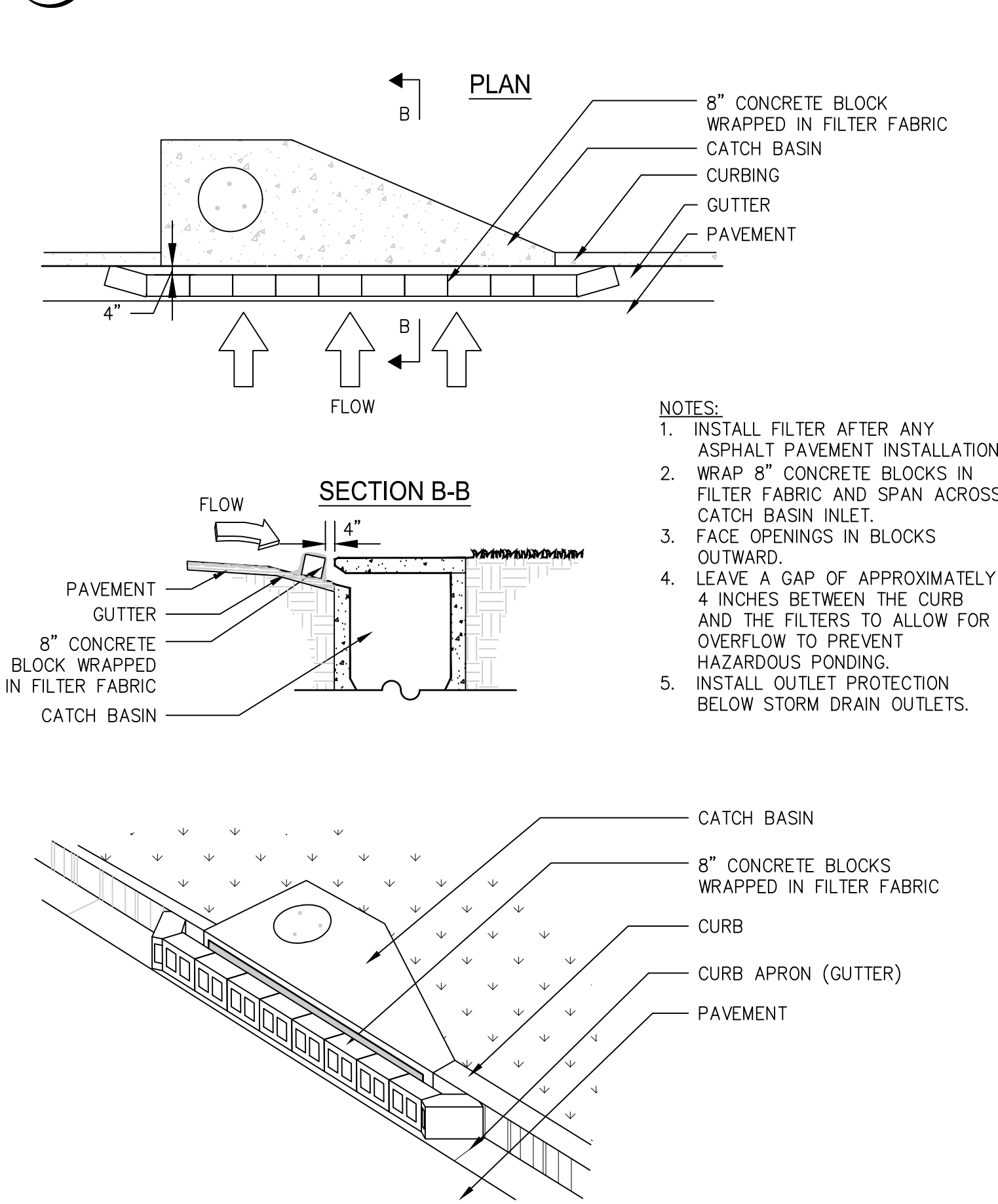
Co CRUSHED STONE CONSTRUCTION EXIT

EXIT DIAGRAM



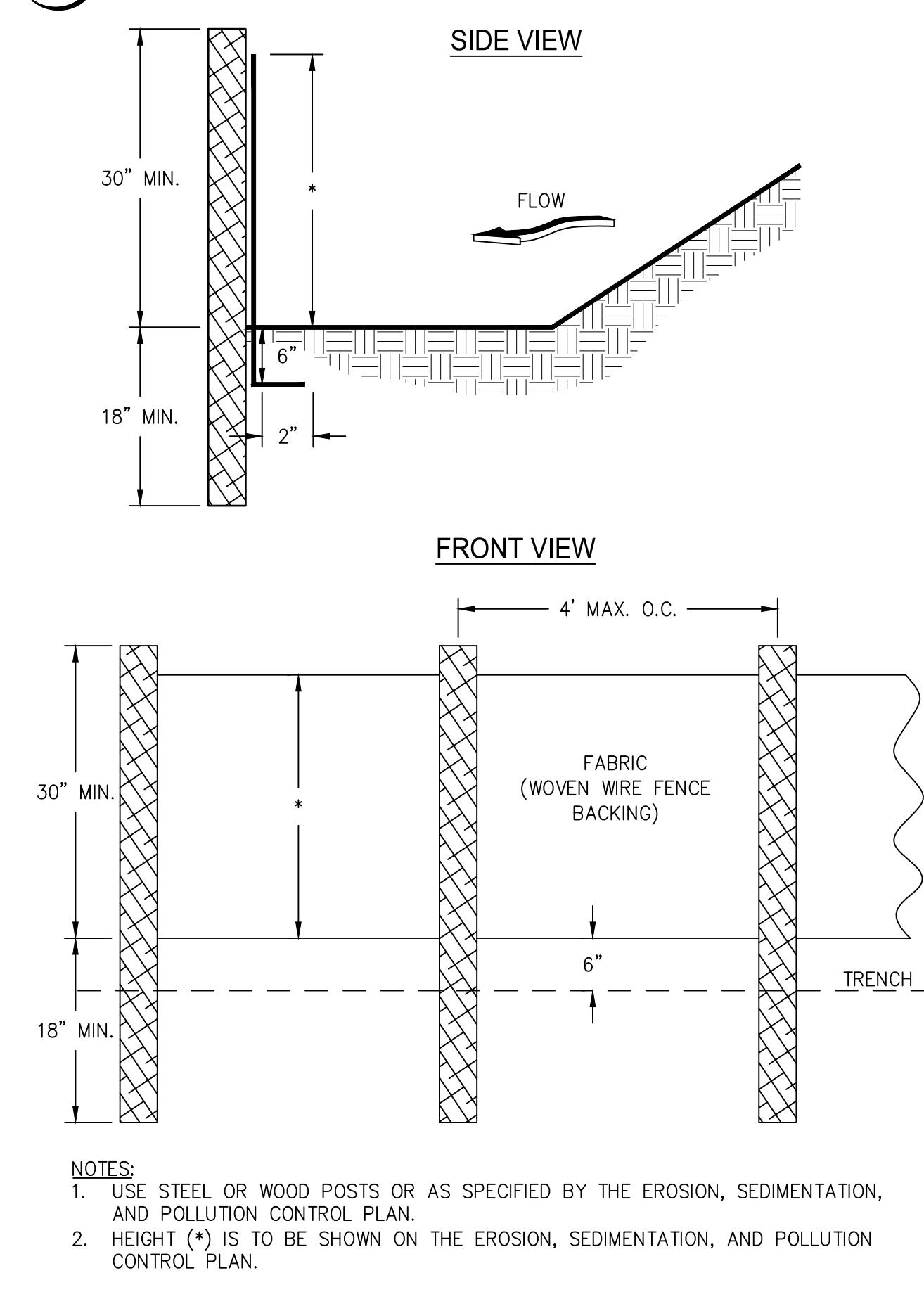
- NOTES:**
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
 2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
 3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5"-3.5" STONE).
 4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
 5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20'.
 6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
 7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
 8. 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 (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
 9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
 10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

Sd2-P CURB INLET FILTER "PIGS IN BLANKET"

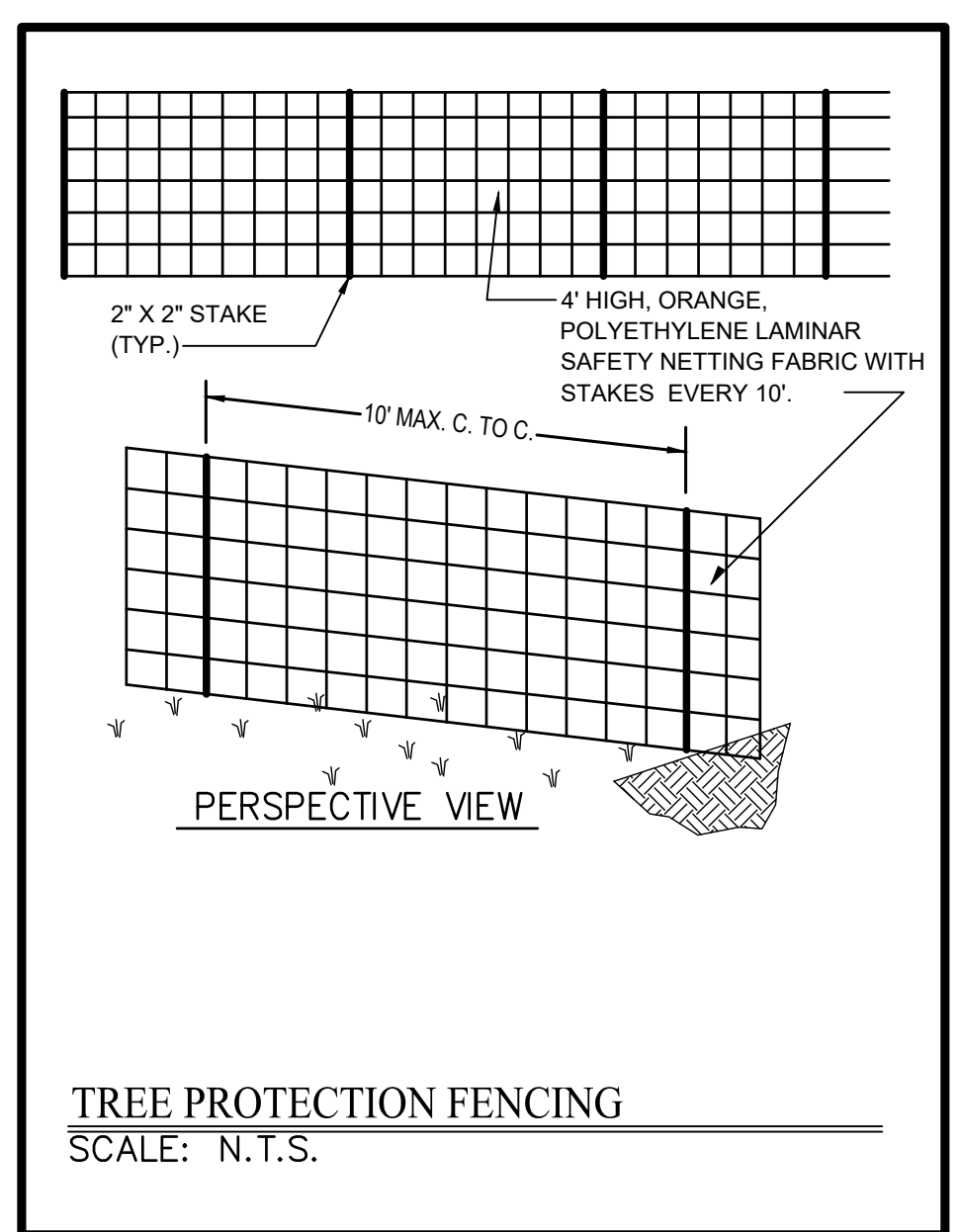


- NOTES:**
1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION
 2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
 3. FACE OPENINGS IN BLOCKS OUTWARD.
 4. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
 5. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

Sd1-S SILT FENCE - TYPE SENSITIVE



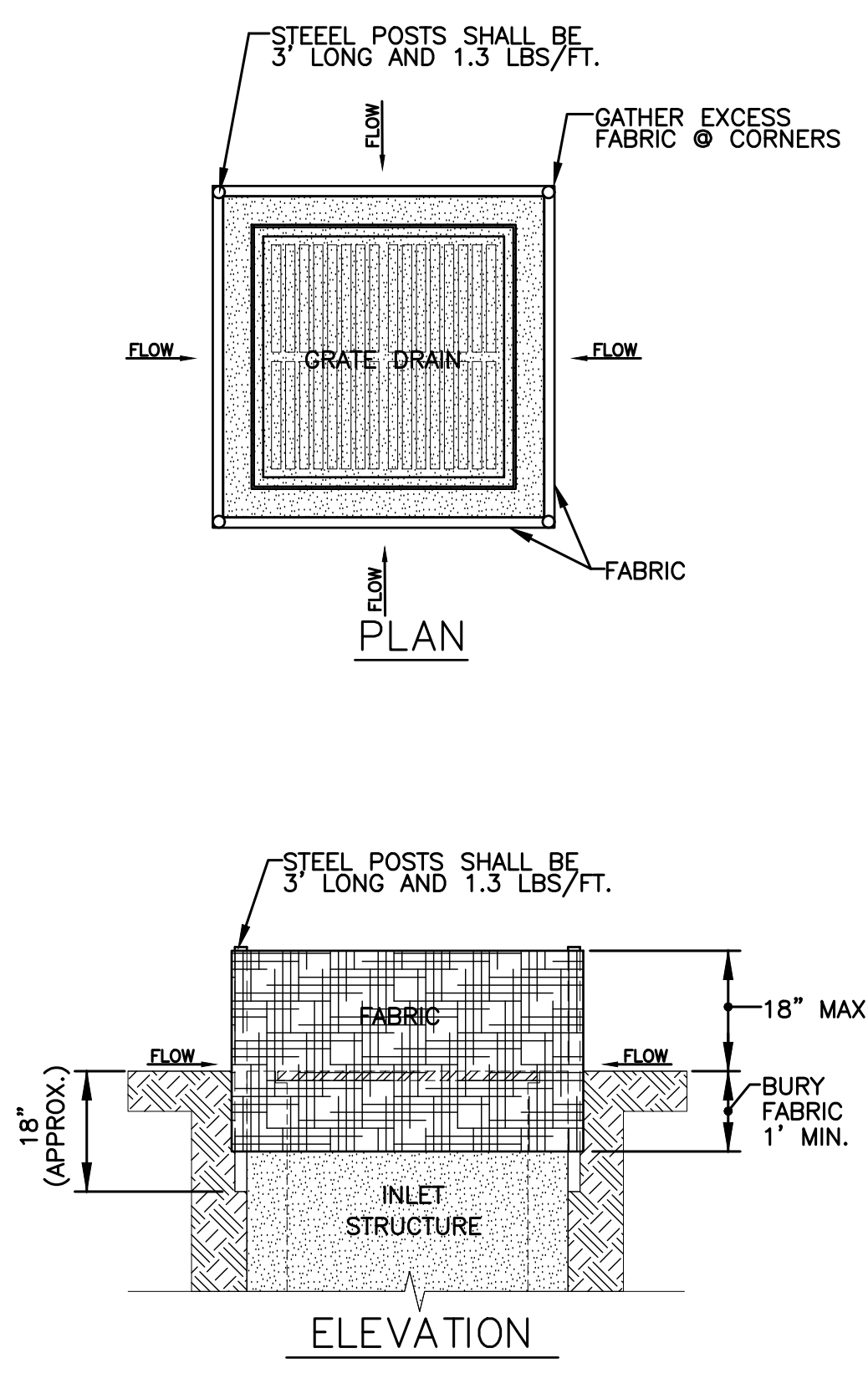
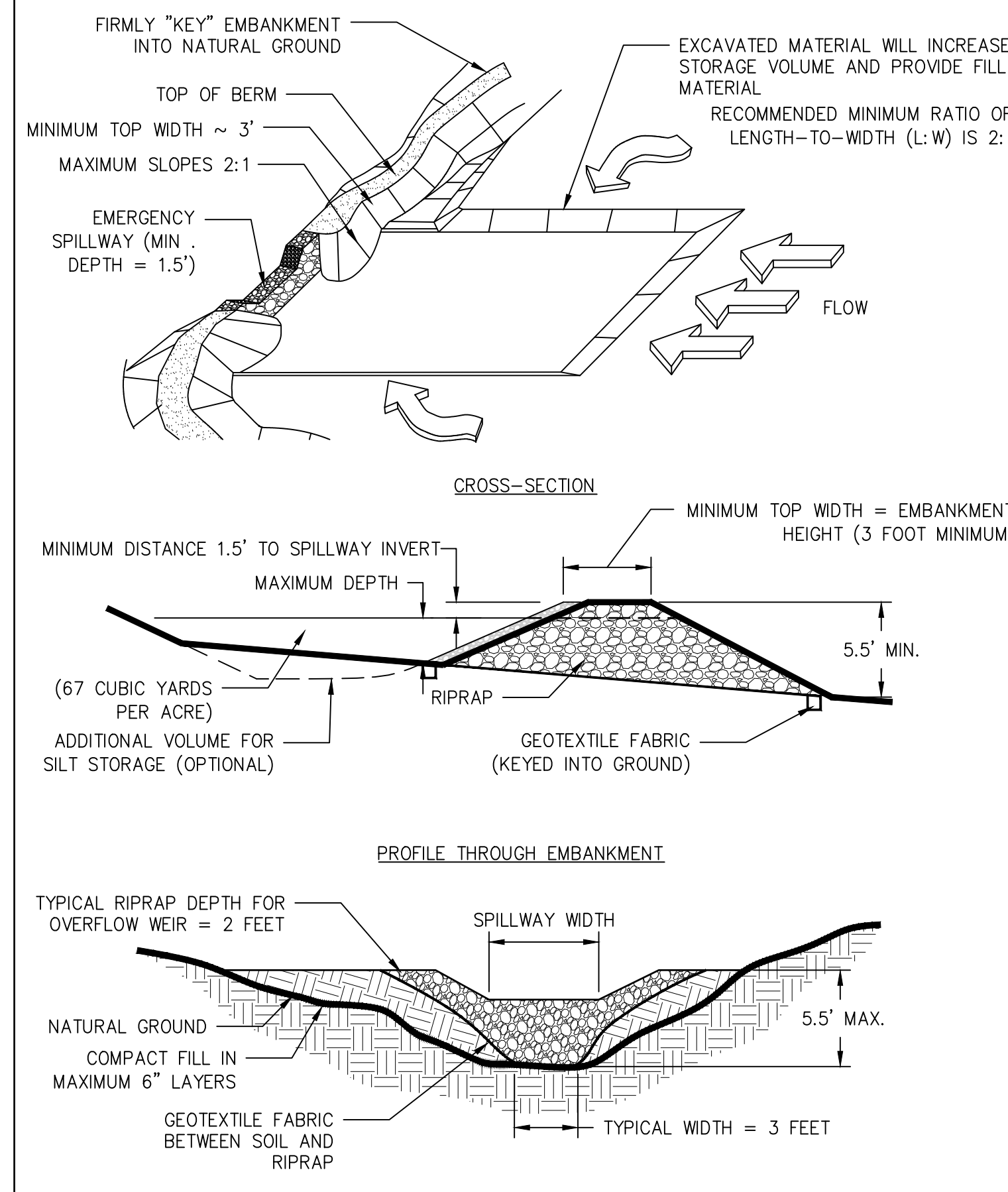
- NOTES:**
1. USE STEEL OR WOOD POSTS OR AS SPECIFIED BY THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.
 2. HEIGHT (*) IS TO BE SHOWN ON THE EROSION, SEDIMENTATION, AND POLLUTION CONTROL PLAN.



TREE PROTECTION FENCING
SCALE: N.T.S.

Sd4-C TEMPORARY SEDIMENT TRAP

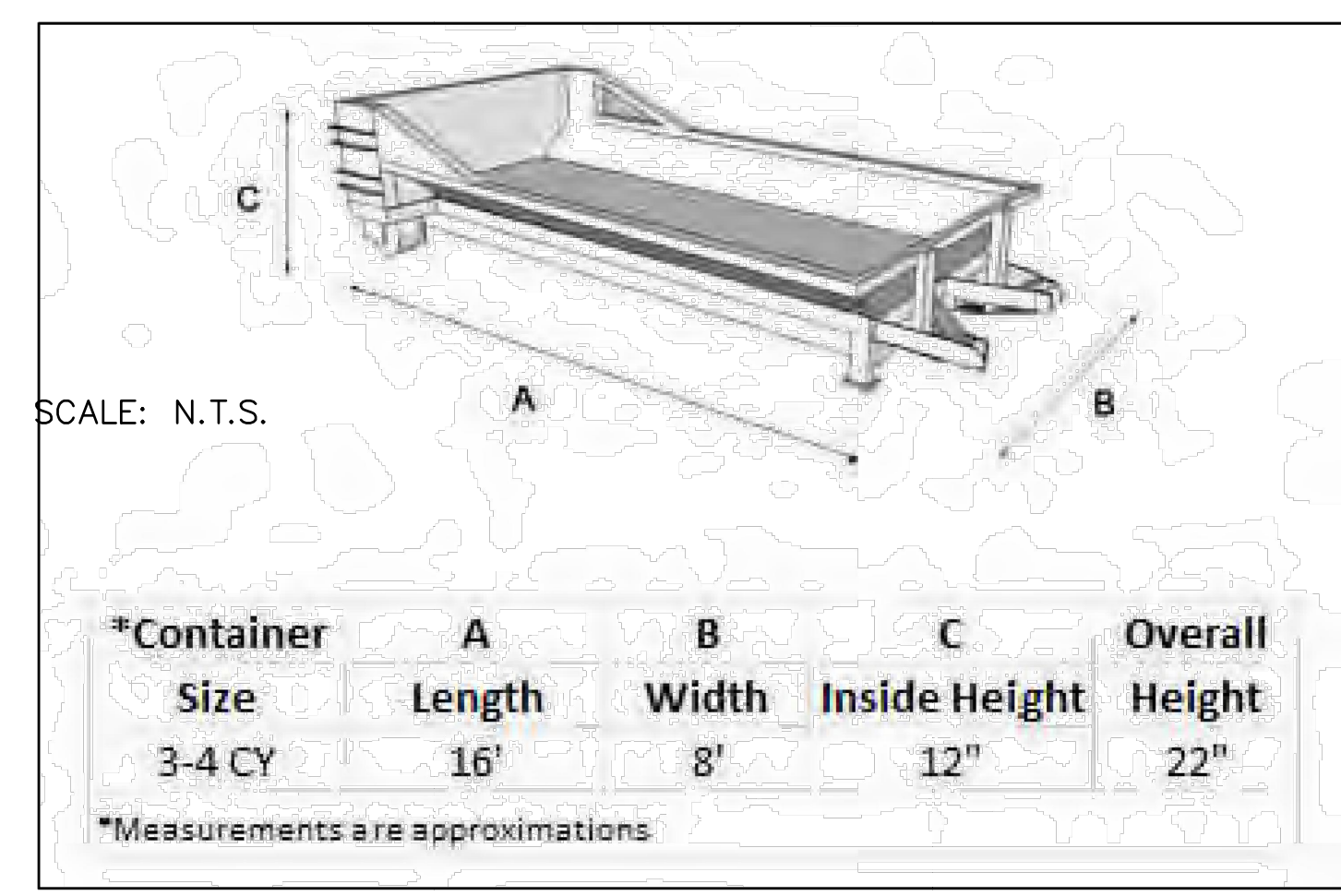
COURTESY OF CITY OF KNOXVILLE BMP EROSION AND SEDIMENT ROCK OUTLET



- INSTALLATION NOTES:**
1. STAKES SHALL BE STEEL POSTS @ 3' MIN. & 1.3 LBS/FT.
 2. SPACE STAKES EVENLY AROUND THE PERIMETER OF THE INLET A MAX. OF 3 FT. APART, & SECURELY DRIVE THEM INTO THE GROUND, APPROXIMATELY 18 IN. DEEP.
 3. TO PROVIDE NEEDED STABILITY TO THE INSTALLATION, FRAME WITH 2x4 IN. WOOD STRIPS AROUND THE CREST OF THE OVERFLOW AREA @ A MAX. OF 1.5 FT. ABOVE THE DROP INLET CREST.
 4. PLACE THE BOTTOM 12 IN. OF THE FABRIC IN A TRENCH & BACKFILL THE TRENCH W/AT LEAST 4 IN. OF CRUSHED STONE OR 12 IN. OF COMPACTED SOIL.
 5. FASTEN FABRIC SECURELY TO THE POSTS & FRAME. JOINTS MUST BE OVERLAPPED TO THE NEXT STAKE.
 6. THE TOP OF THE FRAME AND FABRIC MUST BE WELL BELOW THE GROUND ELEVATION DOWNSLOPE FROM THE DROP INLET TO KEEP RUNOFF FROM BYPASSING THE INLET. IT MAY BE NECESSARY TO BUILD A TEMPORARY DIKE ON THE DOWN SLOPE SIDE OF THE STRUCTURE TO PREVENT BYPASS FLOW.

MAINTENANCE
THE TRAP SHALL BE INSPECTED DAILY AND AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE HEIGHT OF THE TRAP. SEDIMENT SHALL NOT BE WASHED INTO THE INLET. IT SHALL BE REMOVED FROM THE SEDIMENT TRAP AND DISPOSED OF AND STABILIZED SO THAT IT WILL NOT ENTER THE INLET, AGAIN. WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED, ALL MATERIALS AND ANY SEDIMENT SHALL BE REMOVED, AND EITHER SALVAGED OR DISPOSED OF PROPERLY. THE DISTURBED AREA SHALL BE BROUGHT TO PROPER GRADE, THEN SMOOTHED AND COMPACTED. APPROPRIATELY STABILIZE ALL DISTURBED AREAS AROUND THE INLET.

- TREE PROTECTION NOTES:**
1. CONTACT THE PLANNING DEPARTMENT AT (770) 254-2354 TO ARRANGE A PRE-CONSTRUCTION CONFERENCE WITH THE CITY LANDSCAPE ARCHITECT PRIOR TO ANY LAND DISTURBANCE.
 2. ALL TREE PROTECTION MEASURES SHALL BE INSTALLED AND INSPECTED PRIOR TO THE START OF ANY LAND DISTURBANCE AND MAINTAINED UNTIL FINAL LANDSCAPING IS INSTALLED. CALL THE PLANNING DEPARTMENT AT (770) 254-2354 FOR AN INSPECTION BY THE CITY LANDSCAPE ARCHITECT.
 3. NO PARKING, STORAGE, OR ANY OTHER CONSTRUCTION ACTIVITIES ARE TO OCCUR WITHIN TREE PROTECTION AREAS.
 4. A MAINTENANCE INSPECTION OF TREES WILL BE PERFORMED AFTER TWO FULL GROWING SEASONS FROM THE DATE OF THE FINAL CONSTRUCTION INSPECTION. PROJECT OWNERS AT THE TIME OF THE MAINTENANCE INSPECTION ARE RESPONSIBLE FOR ORDINANCE COMPLIANCE.



CONCRETE WASH OUT AREA DETAIL

REID K ALMAND, P.E.
GA PE #47263
GSWCC LEVEL II #79754



DATE: 5/16/24
 DRAWN BY: EAM
 CHECK BY: RVA
 REVISIONS:
 1. ISSUED FOR REVIEW 5/6/24
 1. Description

#51

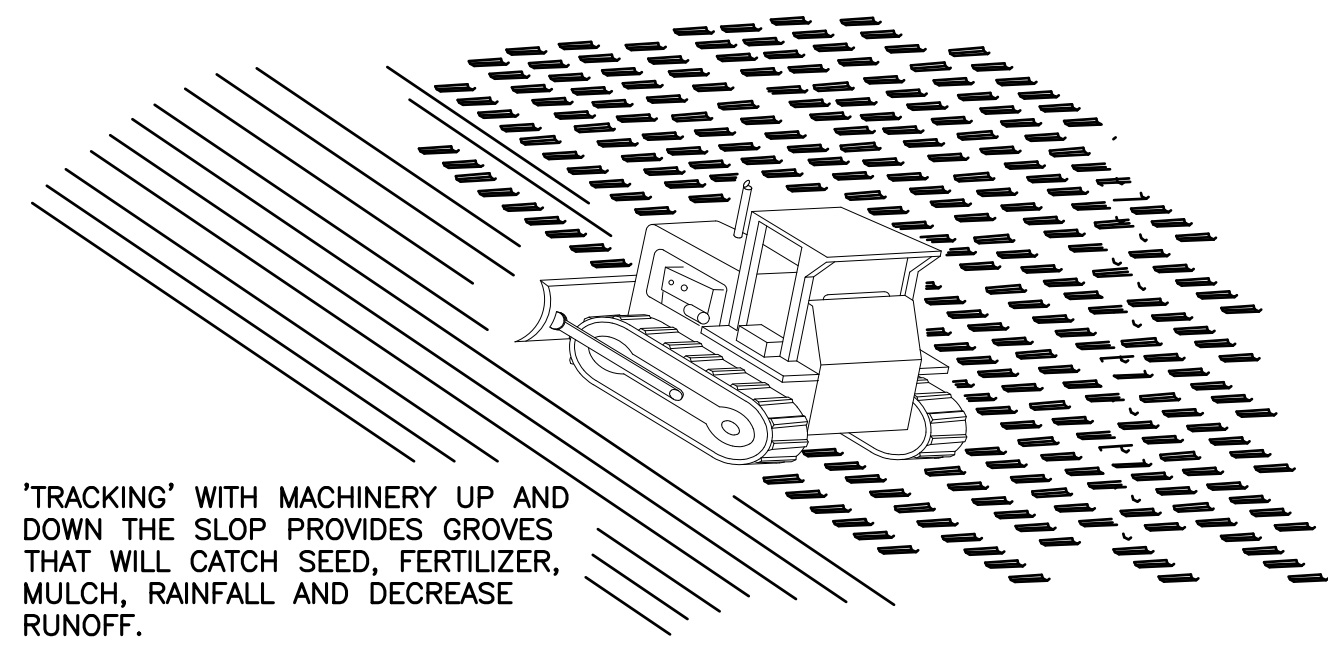
EROSION DETAILS

SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS

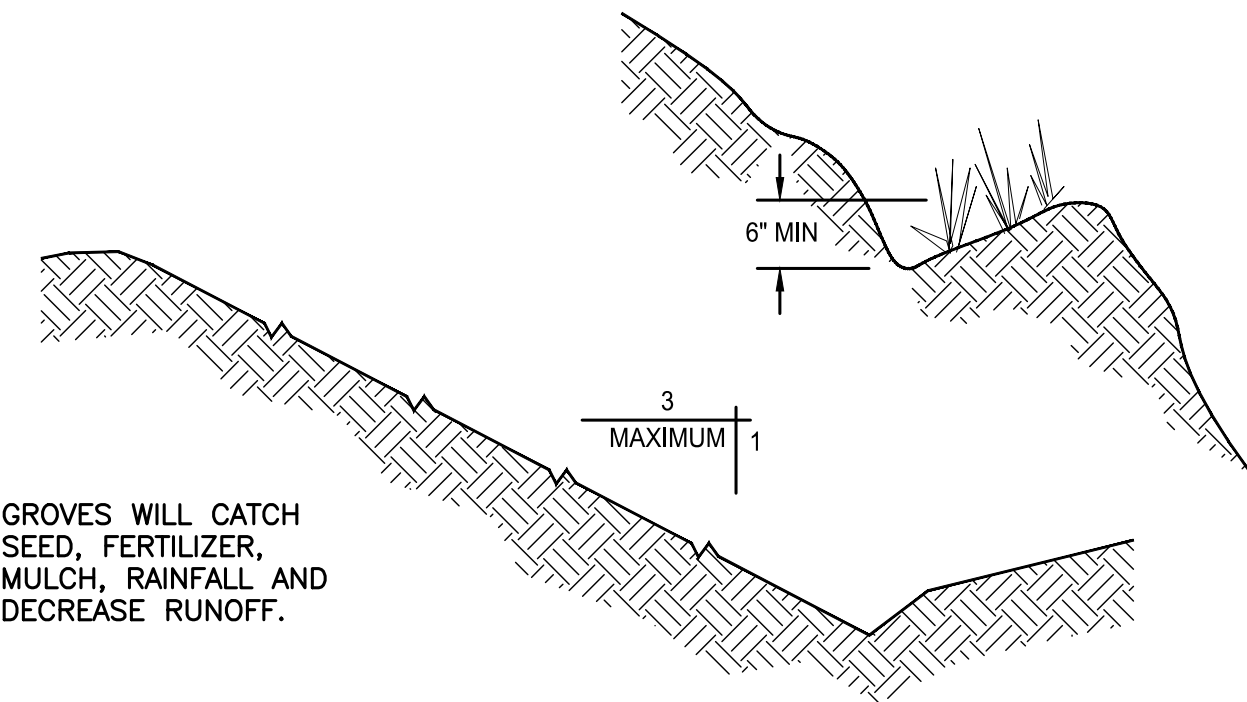
LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWMAN, COWETA COUNTY, GEORGIA

REID K. ALMAND
 PROFESSIONAL ENGINEER
 LICENSE NO. 47263
 COMM. EXPIRES 12/31/2028

DRAWING NO. C601



TRACKING



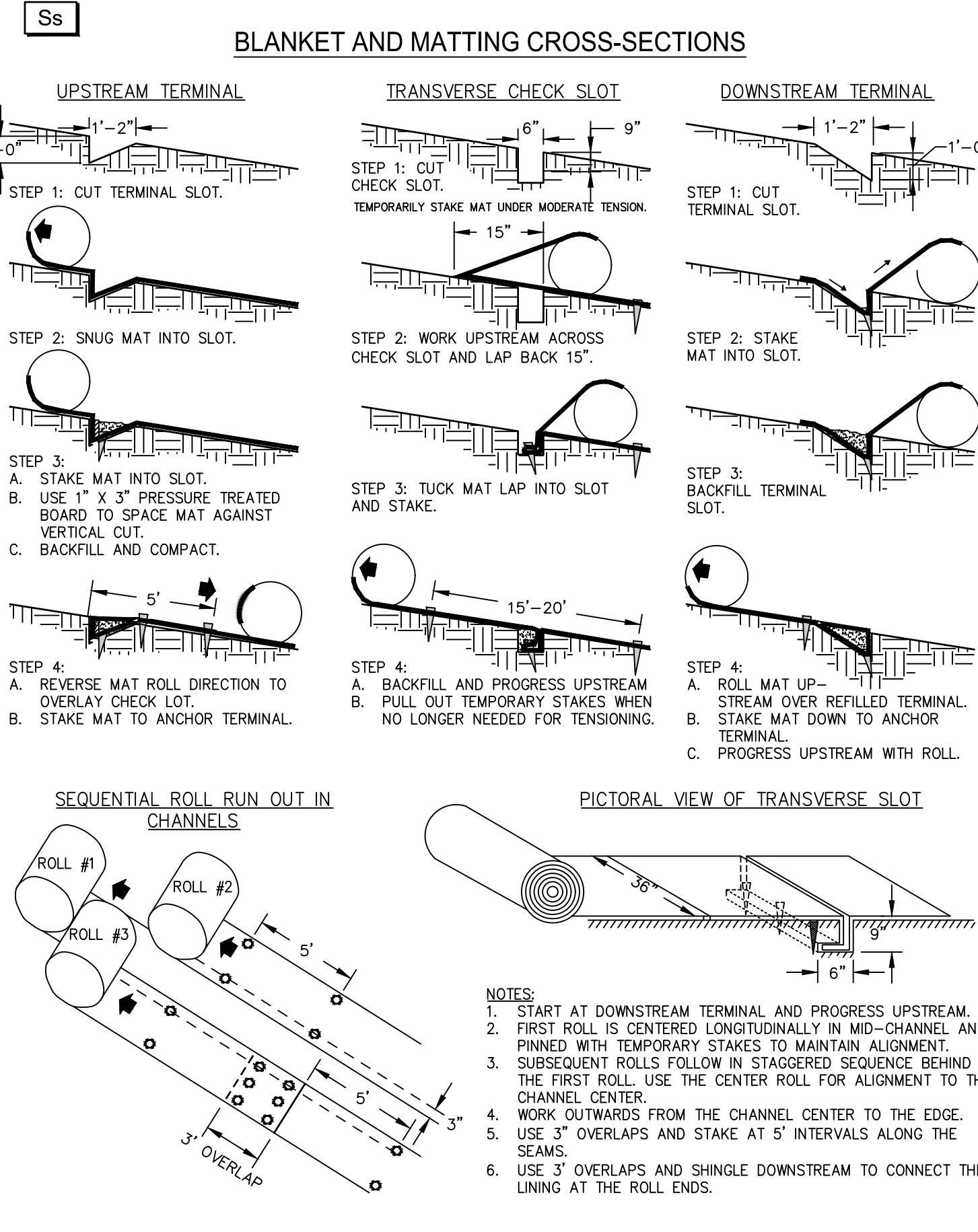
CONTOUR FURROWS



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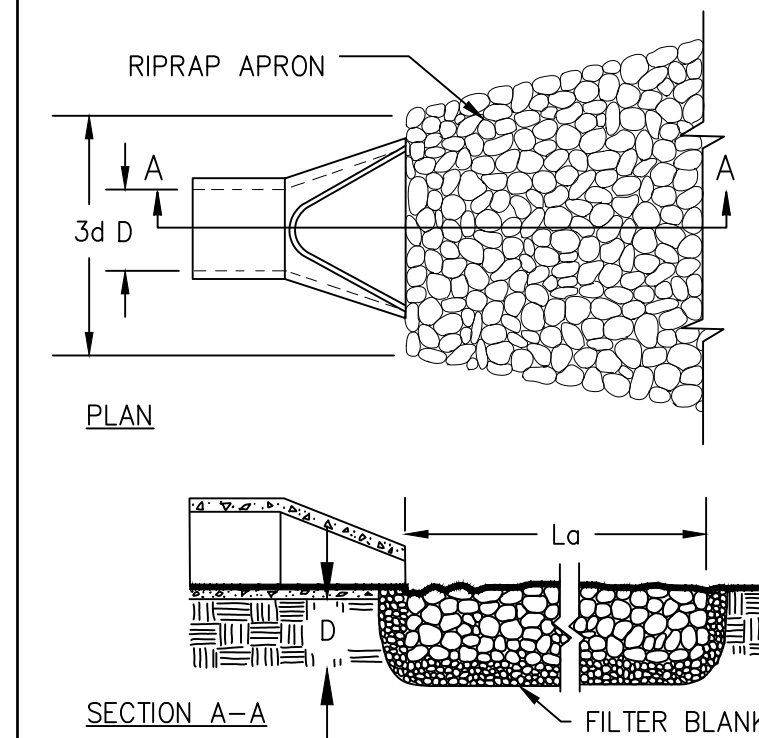
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TYPICAL INSTALLATION GUIDELINES FOR ROLLED EROSION CONTROL PRODUCTS (RECP)



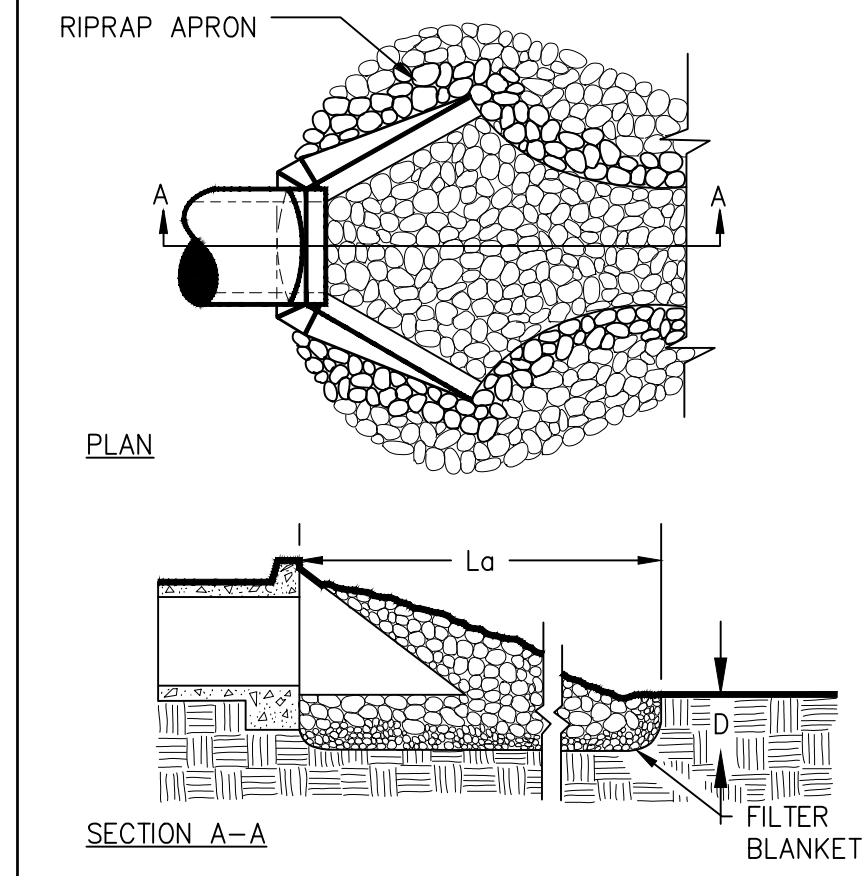
RIPRAP OUTLET PROTECTION

PIPE OUTLET TO FLAT AREA -- NO WELL DEFINED CHANNEL



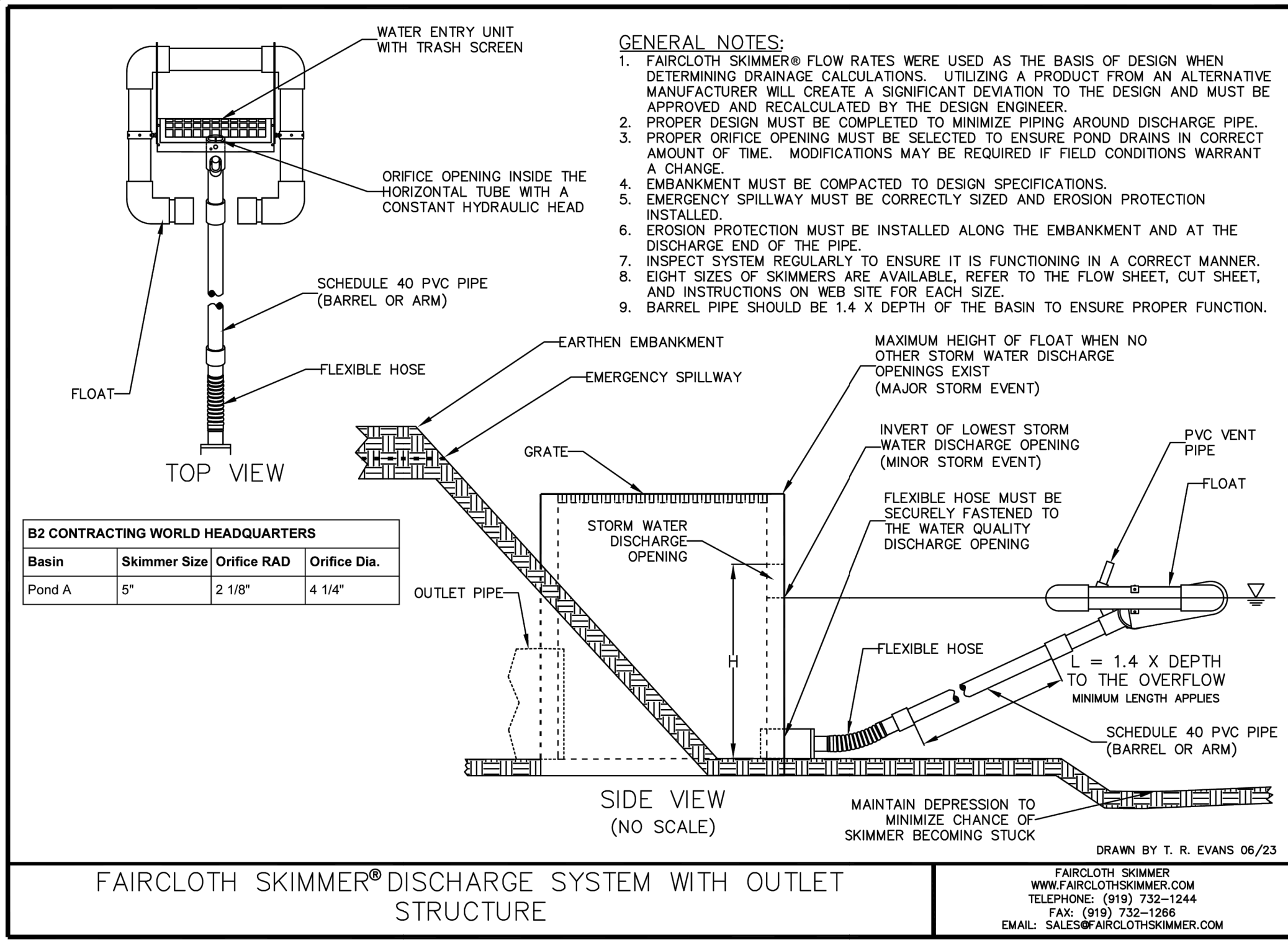
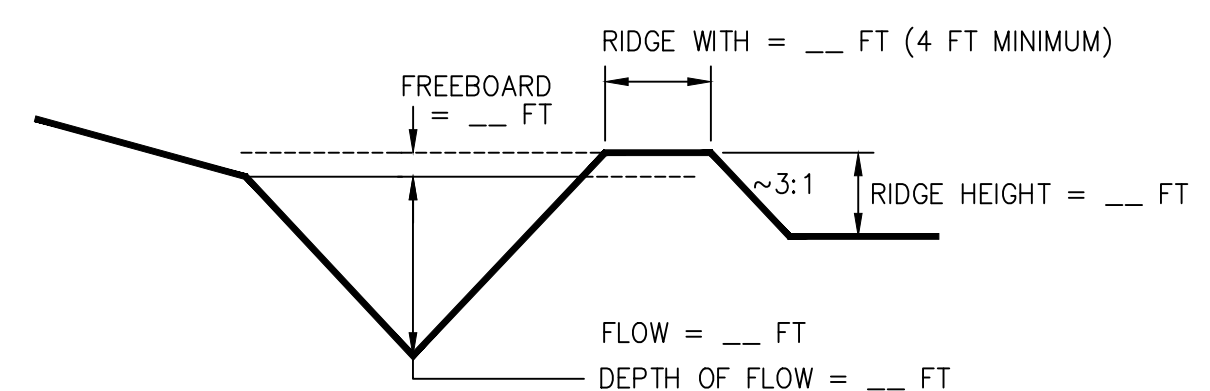
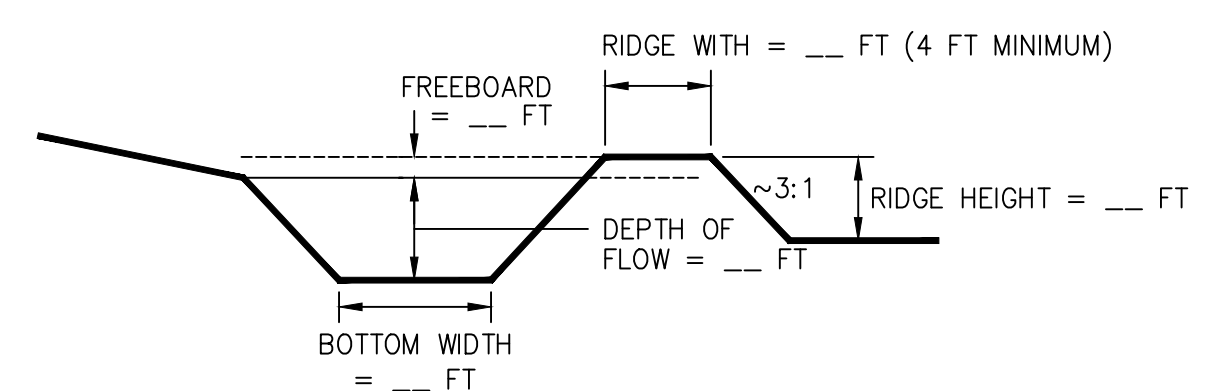
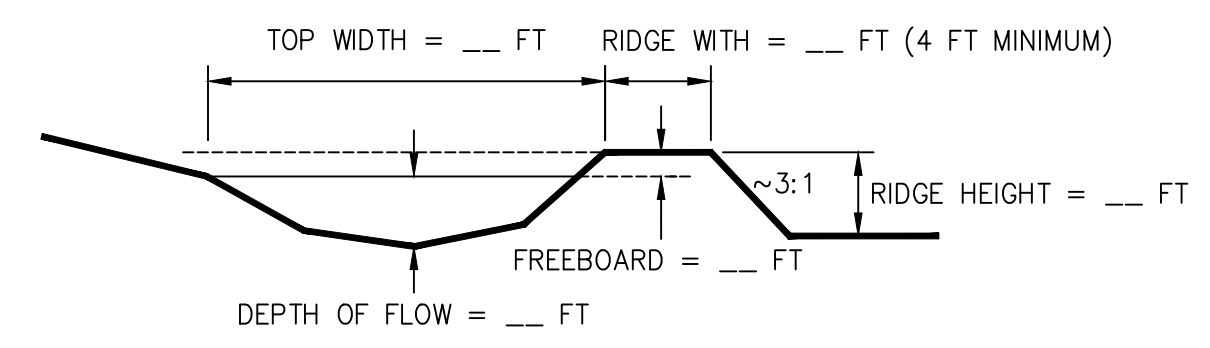
- NOTES:
- Lo IS THE LENGTH OF THE RIPRAP APRON.
 - D = 1.5 TIMES THE MAXIMUM STONE DIAMETER BUT NOT LESS THAN 6".
 - IN A WELL-DEFINED CHANNEL, EXTEND THE APRON UP THE CHANNEL BANKS TO AN ELEVATION OF 6" ABOVE THE MAXIMUM TAILWATER DEPTH OR TO THE TOP OF THE BANK (WHICHEVER IS LESS).
 - A FILTER BLANKET OR FILTER FABRIC SHOULD BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION.

PIPE OUTLET TO WELL DEFINED CHANNEL



SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN

COMPLETE THE APPROPRIATE DETAIL DRAWING FOR THE CHANNEL CROSS-SECTION OF CHOICE:



#46

STRUCTURE STATION	PIPE DIA (FT)	Q ₅₀ (CFS)	V ₅₀ (FPS)	WATER DEPTH IN PIPE (FT)	EST. TAIL-WATER DEPTH (FT)	PAD LENGTH (FT)	PAD WIDTH AT OUTLET (FT)	PAD WIDTH AT DOWN-STREAM (FT)	AVG. STONE DIA (FT)	MAX. STONE DIA (FT)	STONE DEPTH (FT)	STONE TYPE
HW A1	1.5	35.2	11.5	1.6	1.25	25	4.5	11.5	0.6	1	1.5	GA DOT III

#48

SEDIMENT STORAGE

Storage Calculations

1.	Required stormwater storage =	2,519 cy	68,000 cf
(as determined by local ordinance)			
2.	Required sediment storage =	578 cy	
(67 cy / ac * 8.63 ac drainage area)			
3.	Total required storage =	2,519 + 578 =	3,097 cy
4.	Available storage =		3,541 cy
5.	Is the available storage greater than the total required storage?	X yes no	
6.	If "no", the sediment storage capacity of the pond must be increased. Choose the method to be used:	Raise the invert of the outlet structure _____ inches Undercut the pond _____ feet Other _____	
7.	Clean-out elevation =	853.07 feet	1.5 feet (depth)
(Elevation corresponding to 22 cy / ac * 8.63 ac disturbed area)			
(Volume corresponding to to above 189.86 cy)			
8.	Is the length - width ratio 2:1 or greater?	105 length (feet) X yes no 96 width (feet) 1.1 ratio (length / width)	
9.	If "no", the length of flow must be increased. Choose the method to be used:	Baffles (Type of baffle: _____) Other _____	

REID K ALMAND, P.E.
GA PE #47263
GSWCC LEVEL II #79754



DRAWING NO. C602

Rev.	Description	Date
1.	ISSUED FOR REVIEW	5/6/24

Check by: RVA
Drawn by: EAV
Date: 5/6/24

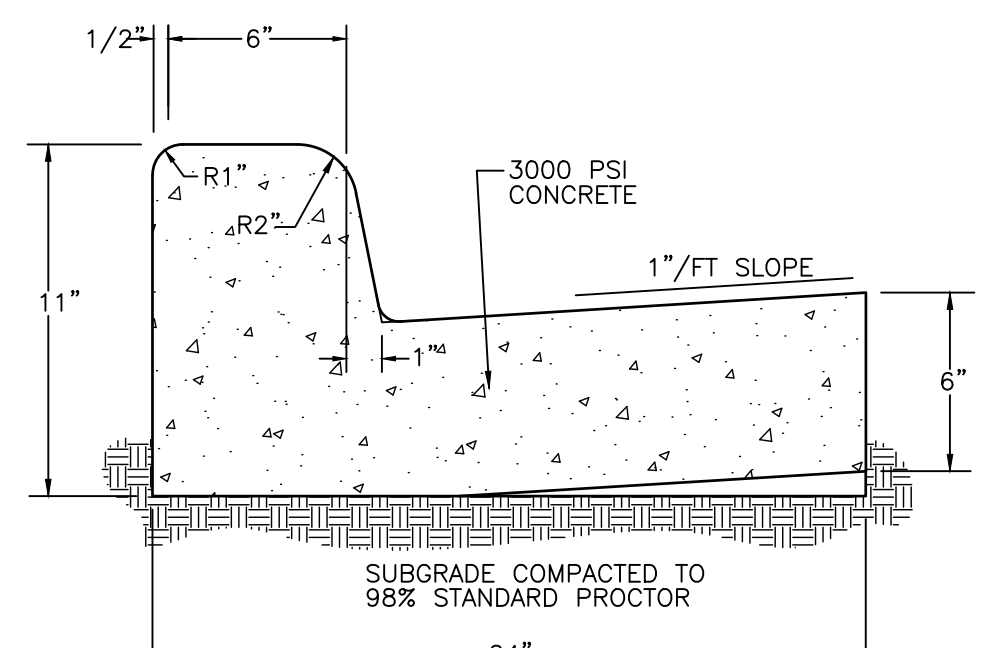
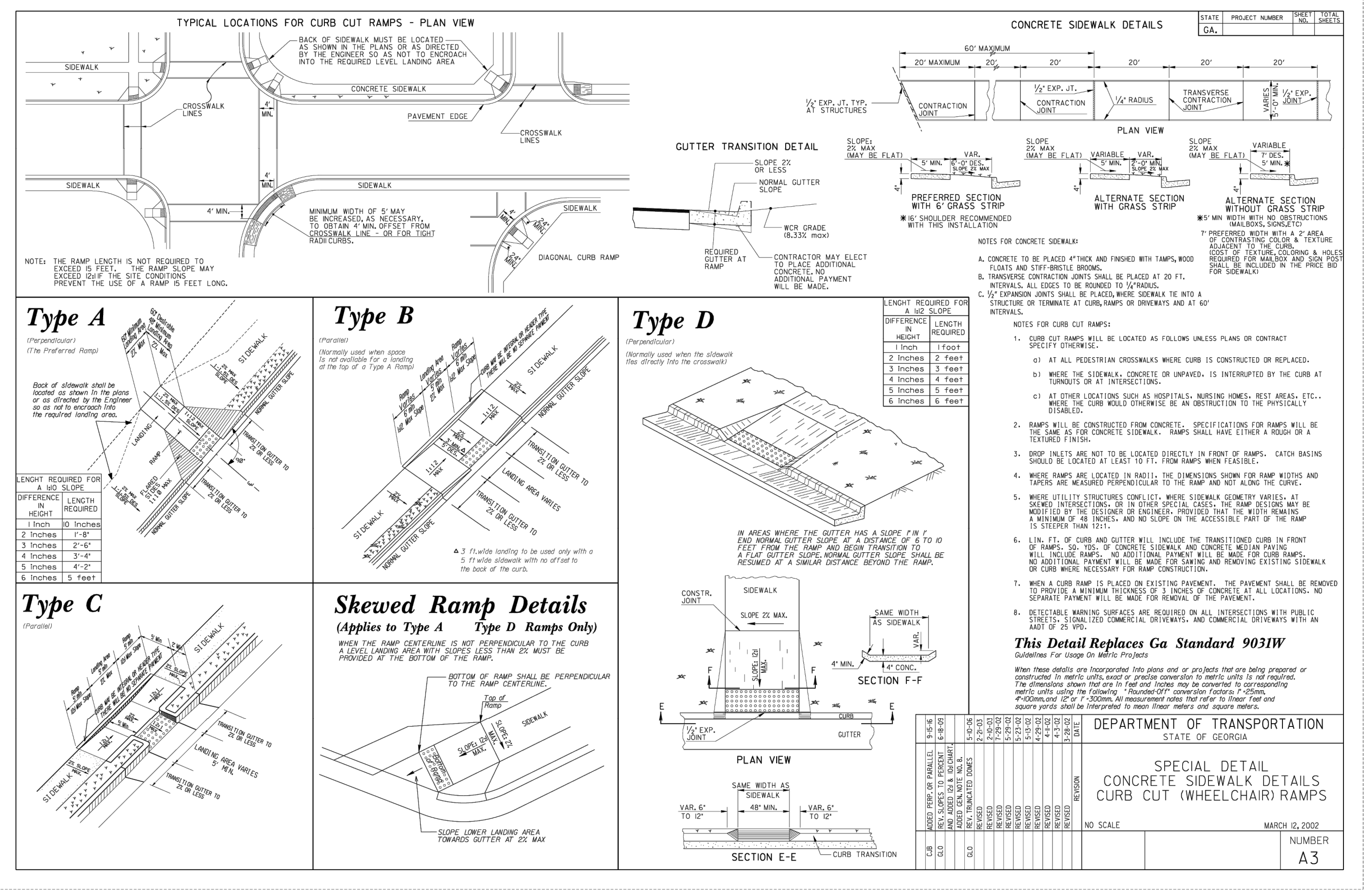
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EROSION DETAILS

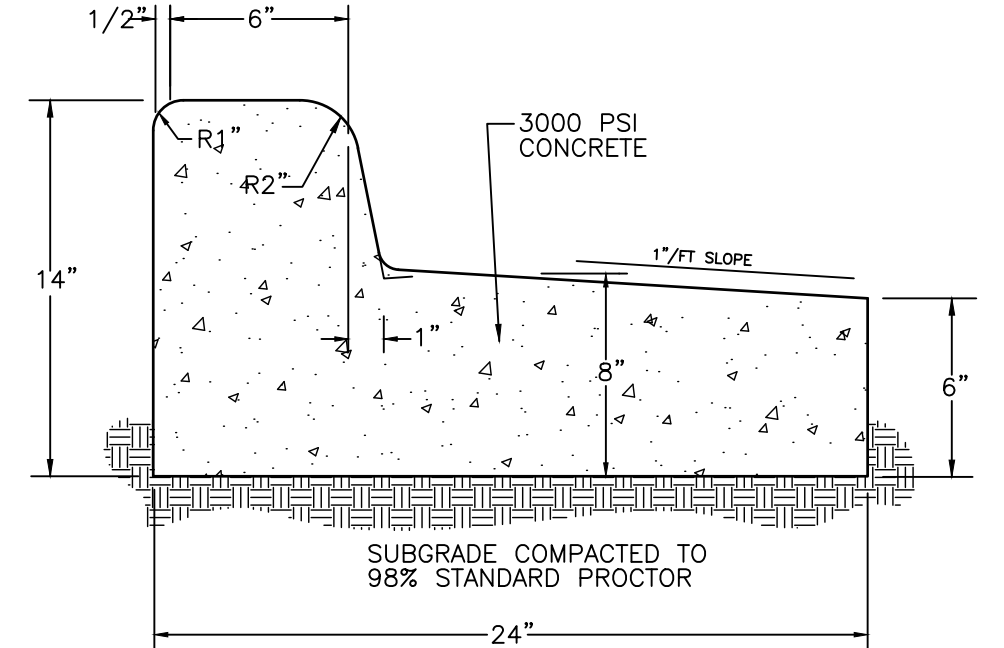
SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS

LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWMAN, COWETA COUNTY, GEORGIA

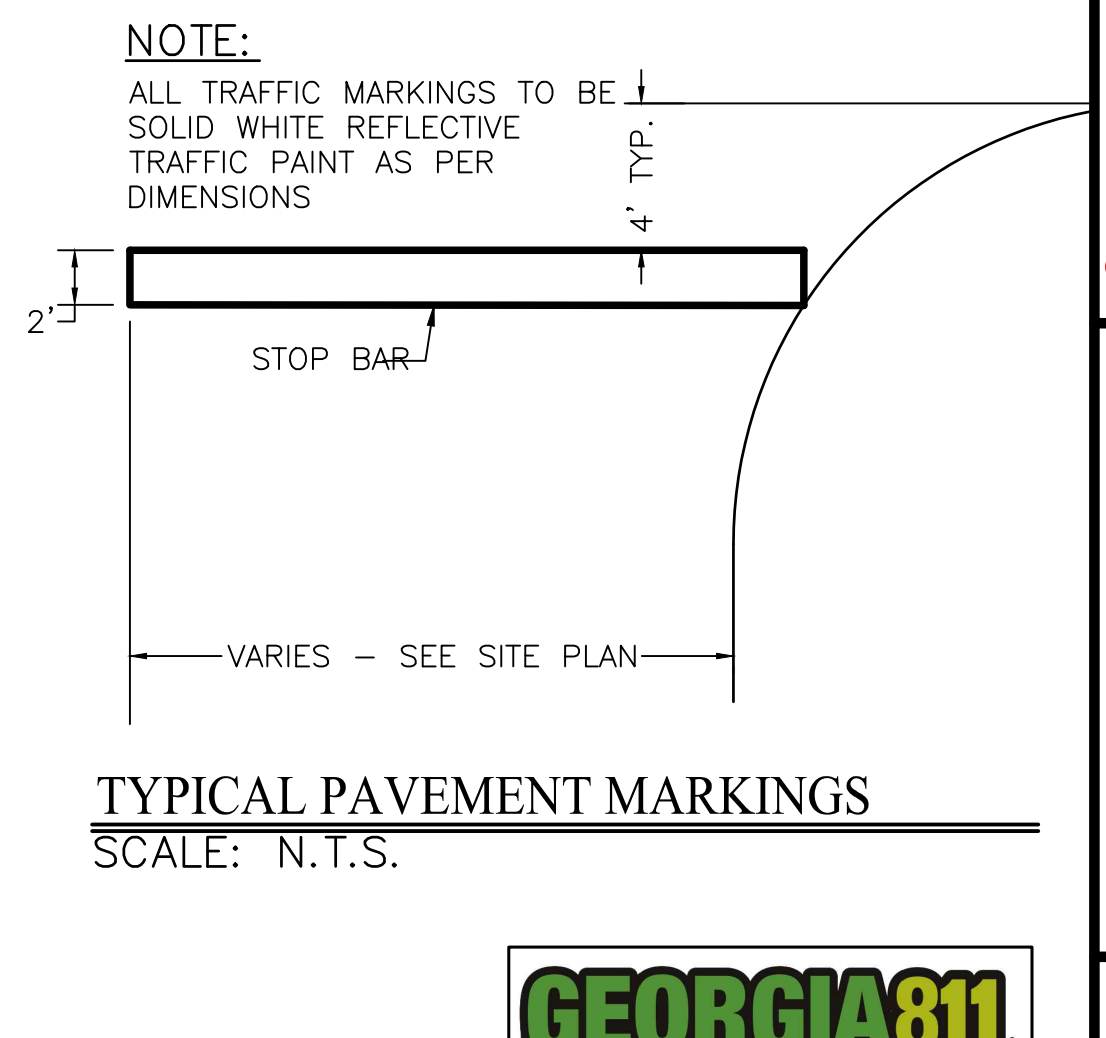
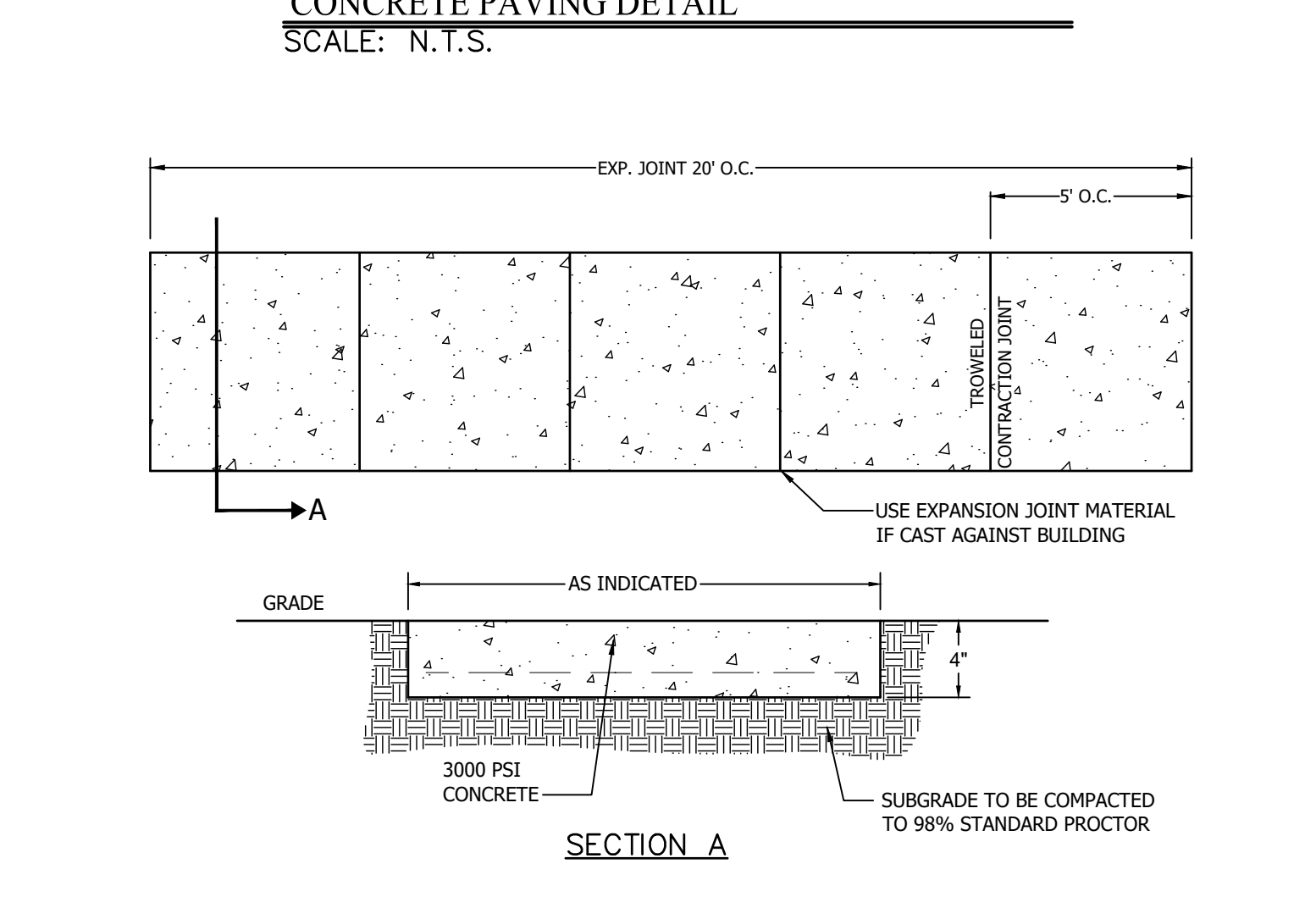
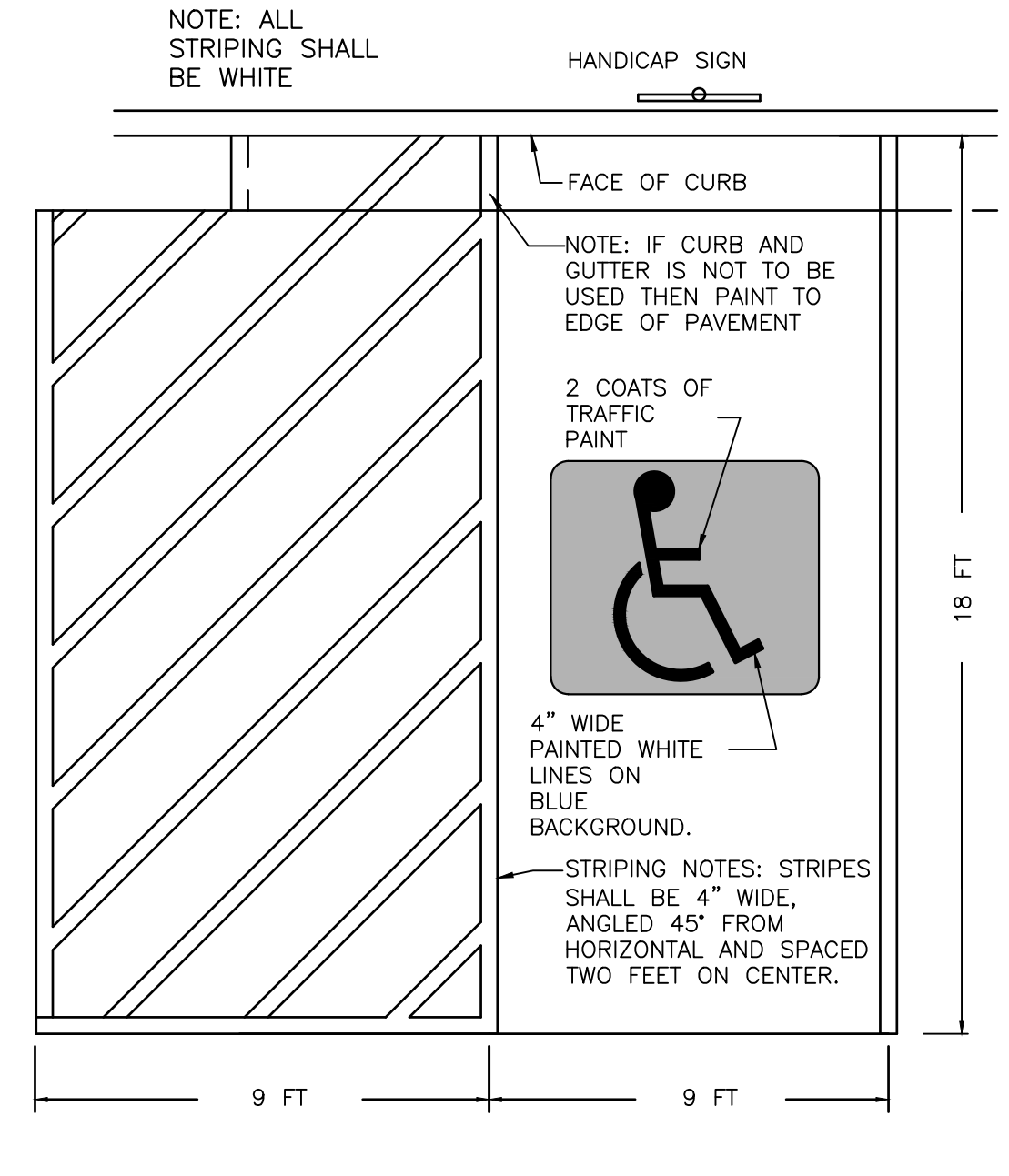
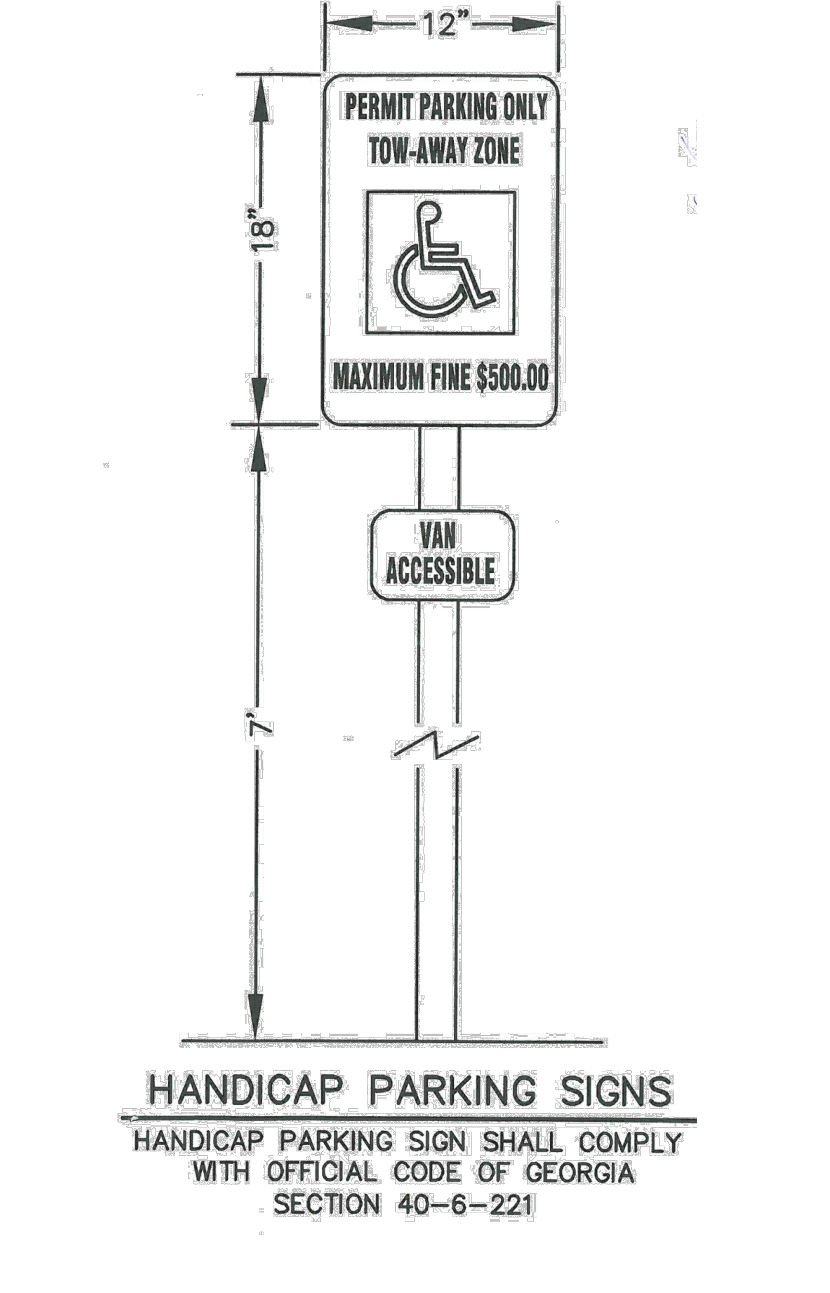
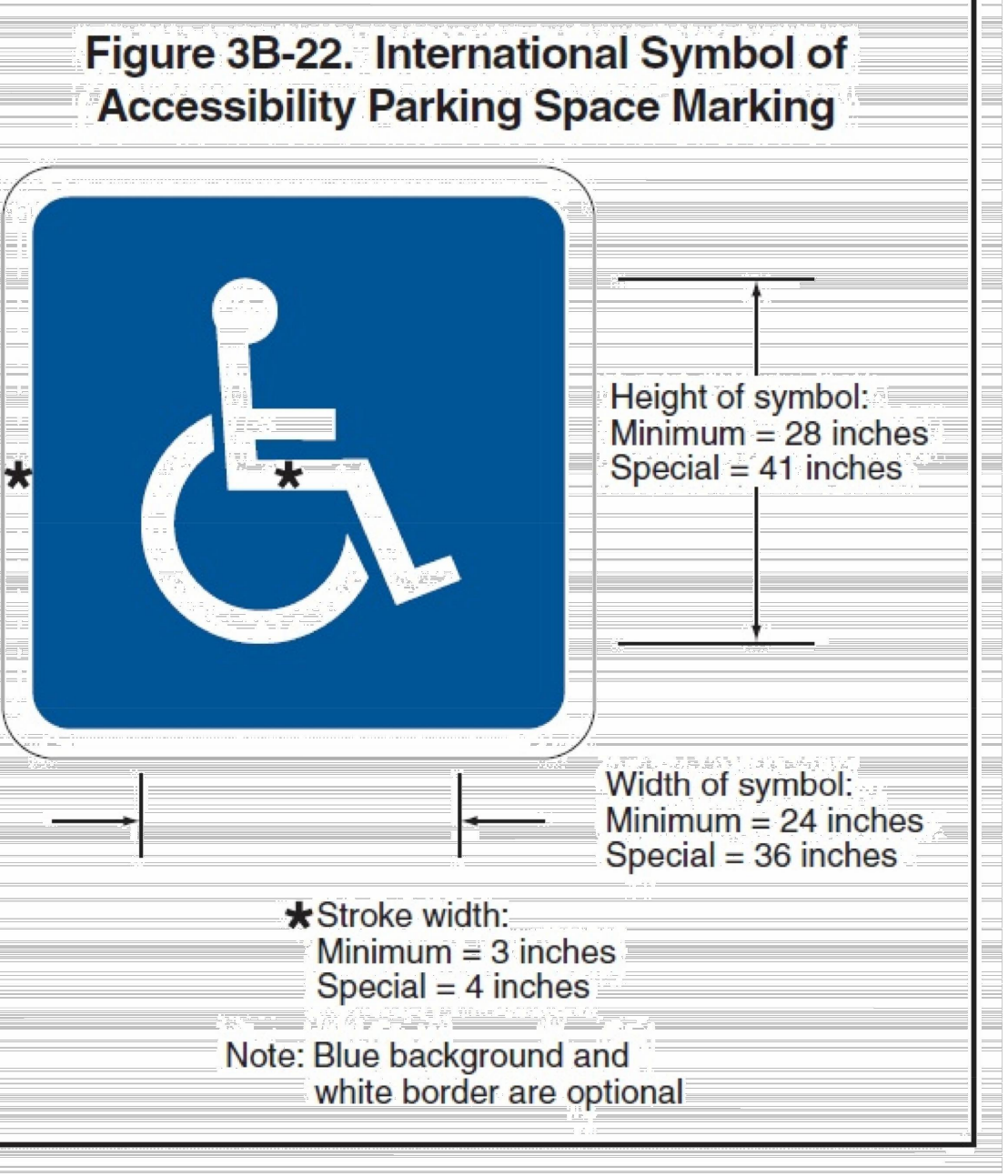
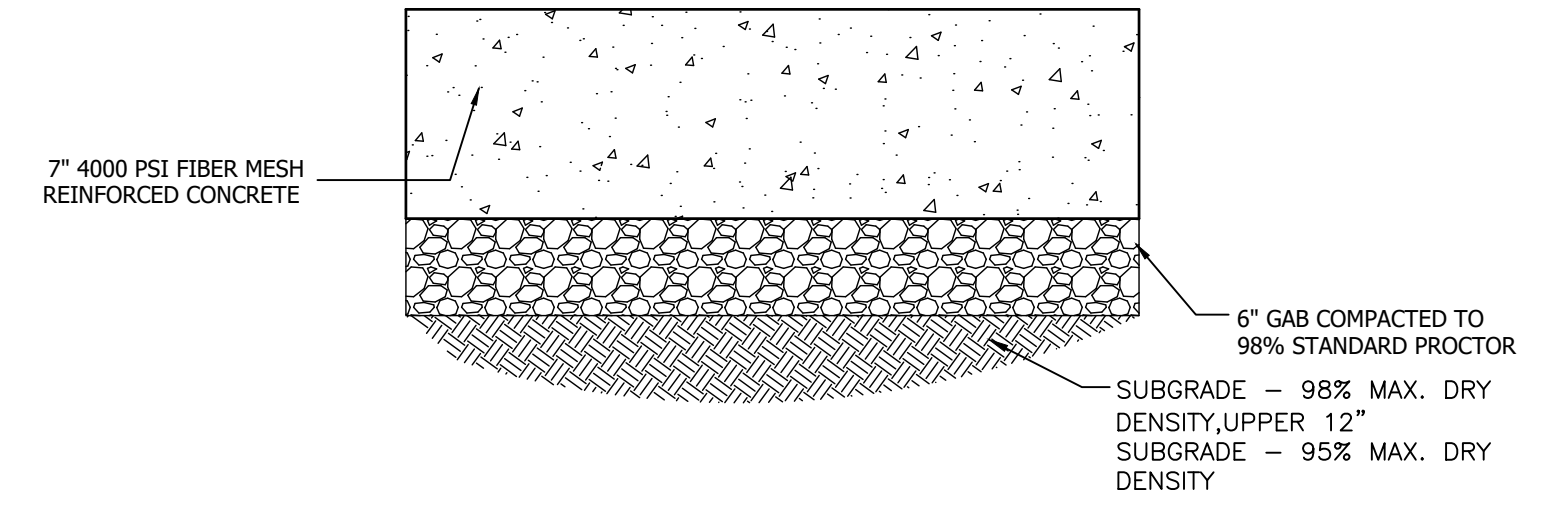
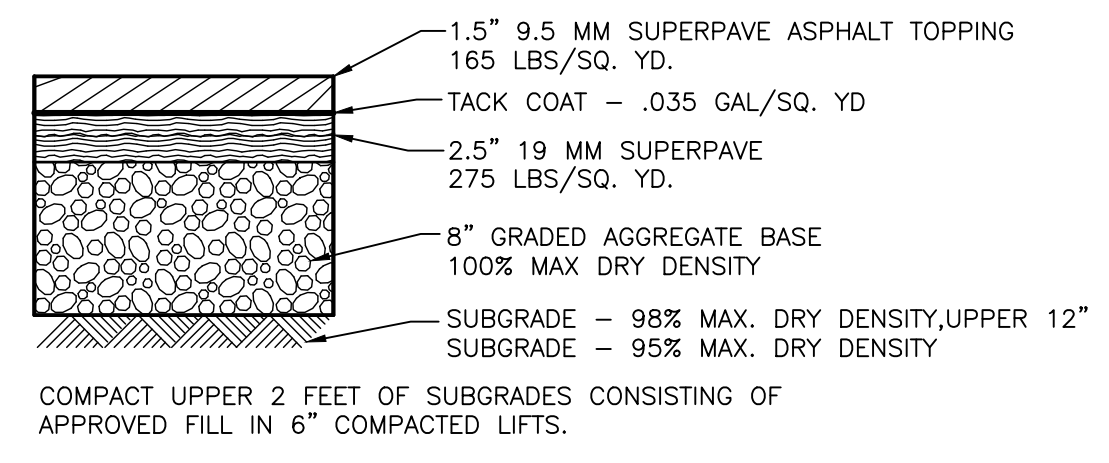
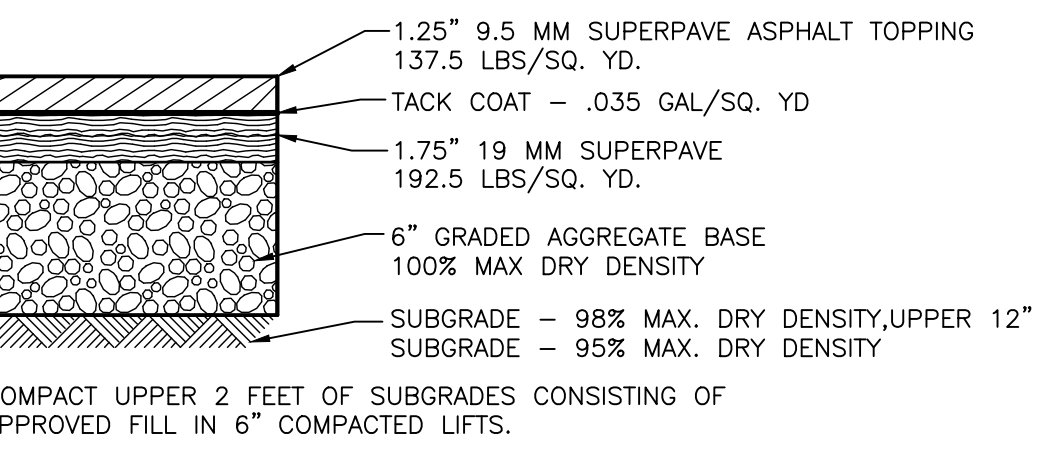
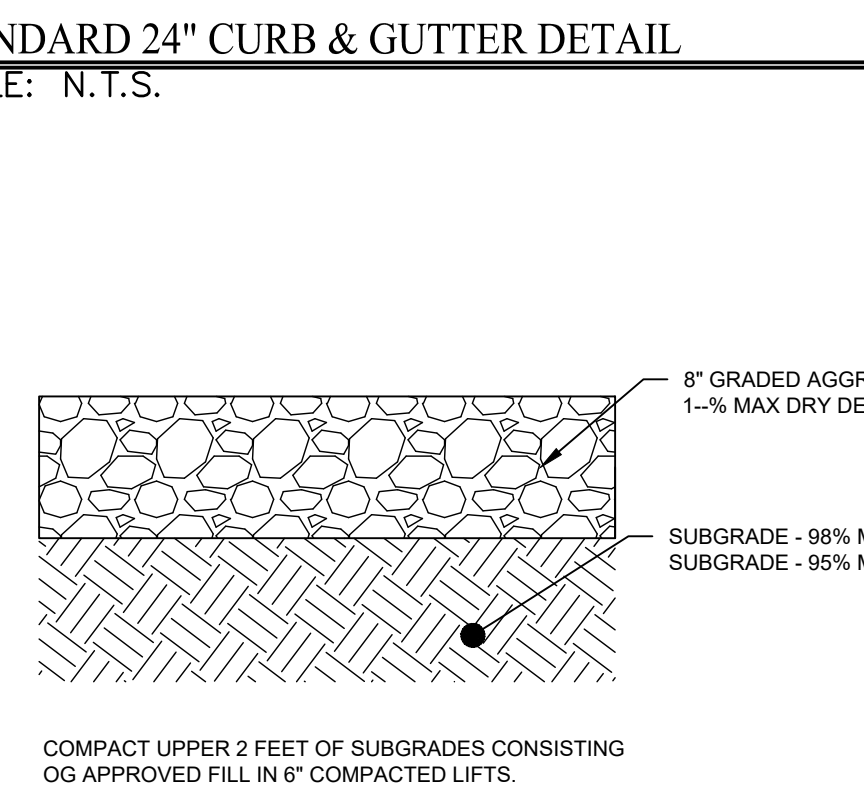




- NOTES:**
- 1/2" PREFORMED EXPANSION JOINTS REQUIRED AT ALL STRUCTURES & CURB RETURNS.
 - MAXIMUM DISTANCE BETWEEN EXPANSION JOINTS = 40.0'.
 - DISTANCE BETWEEN DUMMY JOINTS = 20'.
 - CONCRETE STRENGTH = 3000 PSI, SLUMP = 2", FINISH SHALL BE SMOOTHED & EVENED WITH A WOODEN FLOAT.
 - OTHER CURB & GUTTER SECTIONS WILL BE EVALUATED AS APPROPRIATE BY THE ENGINEER.



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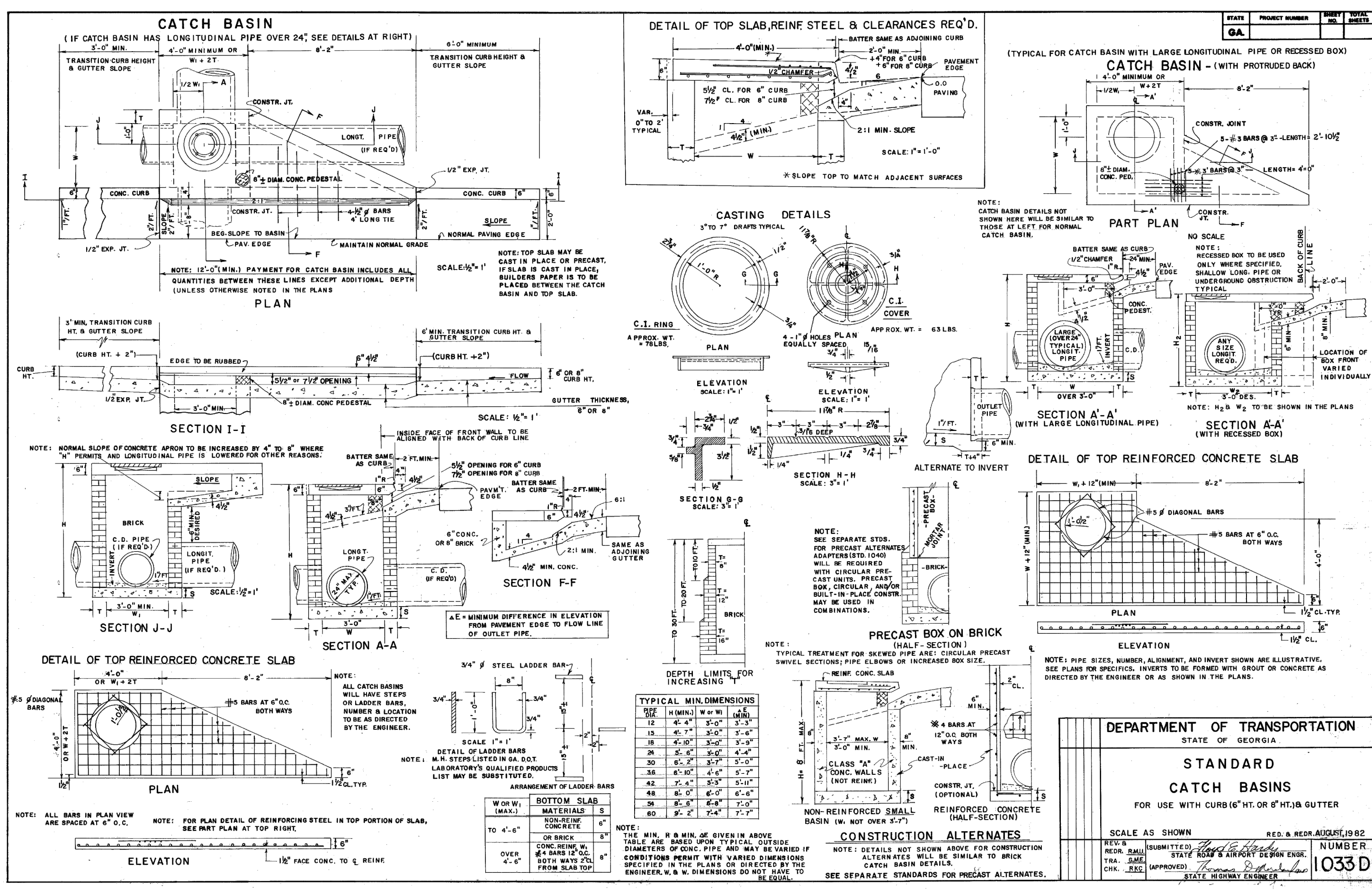
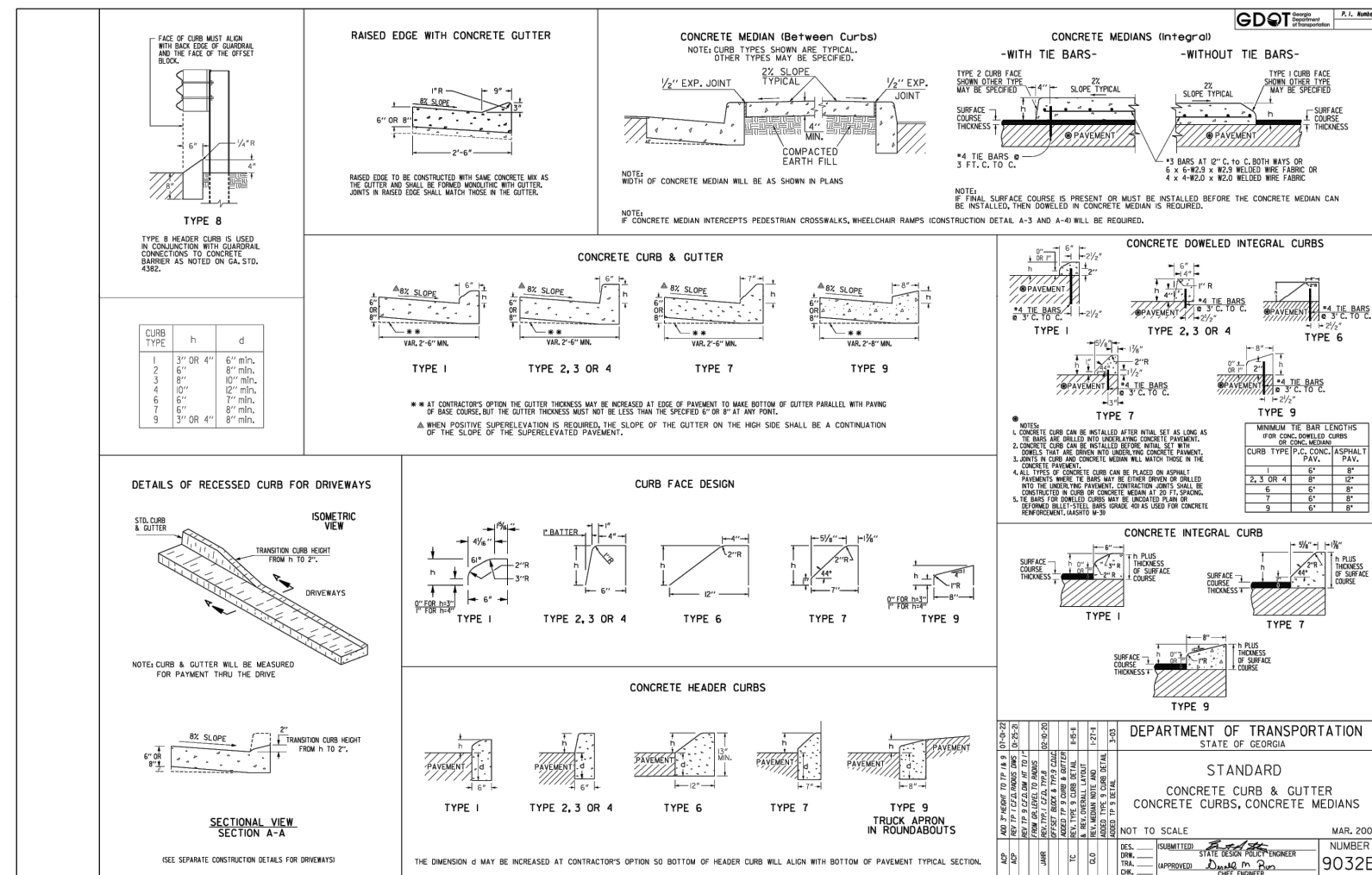
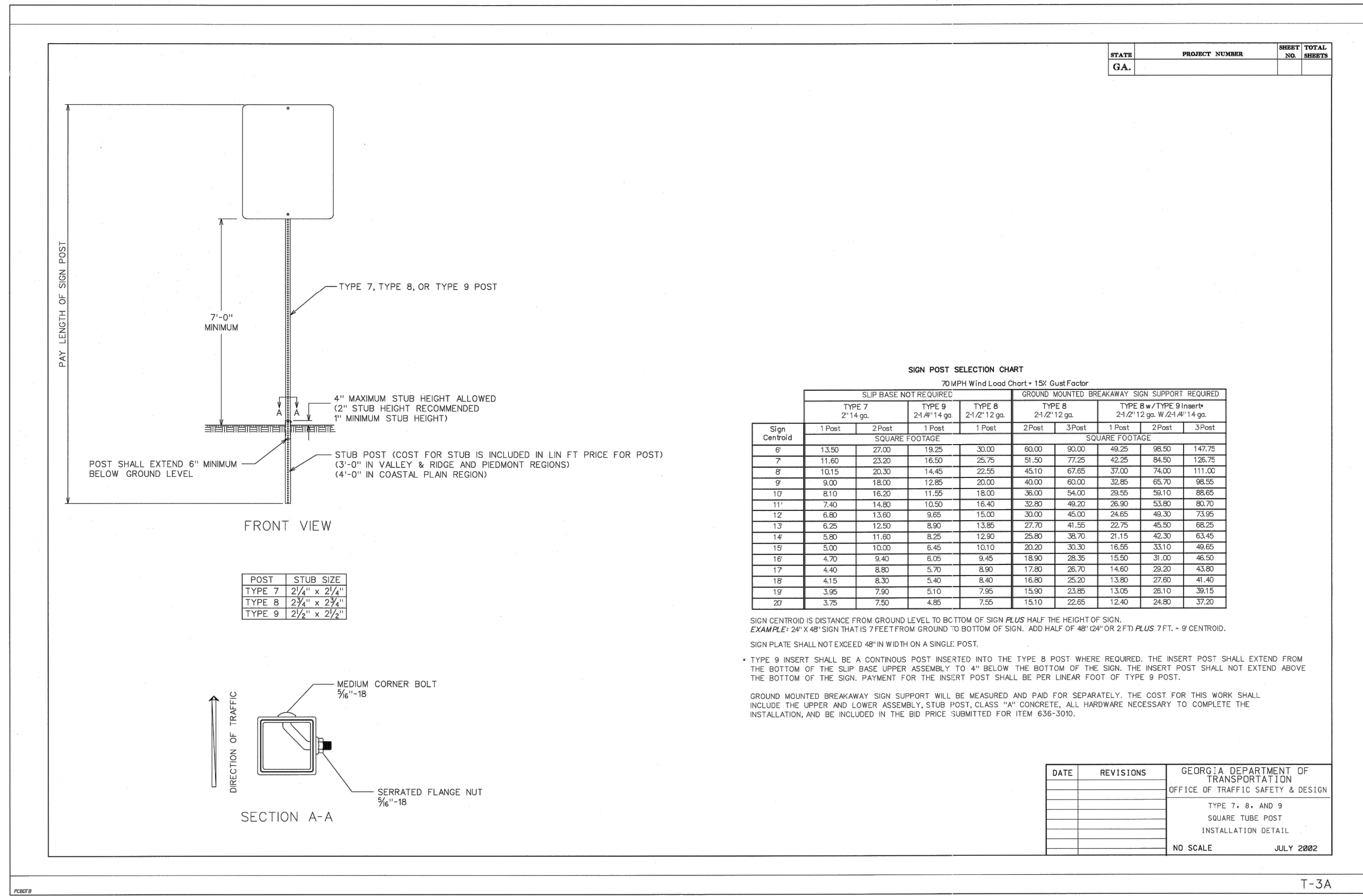
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DATE		Down by:	EAM
DATE		Rev.	Description
		1.	ISSUED FOR REVIEW
			3/6/24
			RVA
			Date
			Apr

CONSTRUCTION DETAILS
 SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS
 LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWNAN, COWETA COUNTY, GEORGIA

G.E.O. ENGINEERS
 1111 N. GOLF COURSE RD. SUITE 100
 NEWNAN, GA 30064
 770.251.1111
 www.geoe.com
 K. ALVINO

NOT FOR CONSTRUCTION

DRAWING NO. C700



Date	Drawn by	Check by	Rev.	Description
5/16/24	EAM	RKA	1.	ISSUED FOR REVIEW

CONSTRUCTION DETAILS

SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS



GENERAL NOTES

- 1) NEWMAN UTILITIES REQUEST THAT THE PROPERTY OWNER/ DEVELOPER AND ENGINEER DISCUSS SERVICES NEEDED PRIOR TO PLAN SUBMITTAL.
- 2) NEWMAN UTILITIES REQUESTS THAT ALL NEWMAN UTILITIES STANDARD DETAILS AND NOTES ARE INCLUDED IN THE CONSTRUCTION PLANS. THESE DETAILS AND NOTES SHALL NOT BE ALTERED IN ANYWAY.
- 3) NEWMAN UTILITIES REQUESTS THAT (4) FOUR SETS OF CONSTRUCTION PLANS AND (1) ONE DIGITAL SITE PLAN IN DWG OR DXF FORMAT FOR REVIEW.
- 4) THRUST BLOCKING OR APPROVED RESTRAINT SYSTEMS SHALL BE INSTALLED AS REQUIRED FOR ALL PRESSURE PIPE INSTALLATIONS.
- 5) ALL WATER AND SEWER DESIGNS MUST BE APPROVED AND STAMPED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF GEORGIA. DRAWINGS MUST INCLUDE BUT ARE NOT LIMITED TO SEWER PLAN AND PROFILES, MANHOLES, TAPS, WATER METERS, VALVES, LINES AND ALL APPURTENANCES RELATED TO THE INSTALLATION AND CONSTRUCTION OF THE WATER AND SEWER SYSTEMS.
- 6) ALL MATERIALS SHALL BE NEW AND MANUFACTURERS APPROVED BY THE COMMISSION.
- 7) THE DEVELOPER SHALL NOTIFY NEWMAN UTILITIES A MINIMUM OF 48 HOUR PRIOR TO ANY WORK ON, OR ADJACENT TO, NEWMAN UTILITIES WATER AND SEWER SYSTEM. PHONE NUMBER (770) 683-0994.
- 8) THE DEVELOPER SHALL VERIFY AND BE PREPARED TO PROVIDE PROOF THAT NO WATER AND SEWER SYSTEM INFRASTRUCTURE IS PLACED UPON OR IN CLOSE PROXIMITY OF AN ABANDONED LAND FILL SITE OR ANY OTHER SITE USED FOR WASTE DISPOSAL.
- 9) THE PROPERTY DEVELOPER OR CONTRACTOR SHALL PROVIDE A 1 YEAR WARRANTY, FROM THE DATE OF ACCEPTANCE, FOR ALL WATER AND SEWER INFRASTRUCTURE. DATE OF ACCEPTANCE STARTS WHEN ADEQUATE AS-BUILTS HAVE BEEN ACCEPTED AND CONTRACTOR'S AFFIDAVIT FOR CONTRIBUTED ASSET FORM HAS BEEN PROPERLY COMPLETED AND SUBMITTED TO NEWMAN UTILITIES.
- 10) IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL UTILITY LOCATIONS PRIOR TO START OF WORK. ANY DAMAGE TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE CORRECTED AT NO COST TO THE UTILITY OWNER.
- 11) NO SYSTEM SHALL BE ACCEPTED, NOR SHALL THE WARRANTY PERIOD BEGIN UNTIL ASBUILTS ARE RECEIVED ON AN ACCEPTABLE MEDIA BOTH PAPER AND ELECTRONIC (TIFF IMAGE OR DXF), AND APPROVED.
- 12) NO WATER METERS SHALL BE INSTALLED UNTIL SYSTEM IS ACCEPTED.
- 13) ALL SUBDIVISION ROADS SHALL HAVE A 5' UTILITY EASEMENT ON EACH SIDE OUTSIDE OF THE RIGHT-OF-WAY.
- 14) DEVELOPER MUST RESUBMIT PLANS IF CONSTRUCTION HAS NOT BEGUN WITHIN 6 MONTHS OF NEWMAN UTILITIES ACCEPTANCE OF PLANS.
- 15) THE UTILITY CONTRACTOR SHALL MAINTAIN A CURRENT UTILITIES CONTRACTORS LICENSE.

WATER SYSTEM NOTES

- 1) ALL WATER DISTRIBUTION PIPING SHALL BE A MINIMUM OF 4 INCH DIAMETER, CLASS 50, CEMENT AND ASPHALTIC LINED AND ASPHALTIC COATED AS PER AWWA C104, C110, C115, C151, AND C153 DUCTILE IRON PIPE.
- 2) ALL SERVICE LINES LESS THAN 2 INCHES SHALL BE TYPE "K" SOFT ANNEALED COPPER FROM THE CORPORATION STOP TO THE WATER METER. ALL 2" SERVICE LINES SHALL BE HIGH DENSITY (BLUE) POLYETHYLENE PIPE.
- 3) ALL SERVICE TAPS LESS THAN 2 INCHES SHALL BE DIRECT TAP TO THE MAIN; TAP SADDLES ARE NOT ALLOWED.
- 4) ALL CORPORATION STOPS AND CURB STOPS SHALL BE MUELLER COMPRESSION FITTINGS OR EQUAL.
- 5) ALL FIRE HYDRANTS SHALL BE 5 1/4" AMERICAN DARLING B-62-B.
- 6) ALL NEW WATER LINE INSTALLATIONS SHALL BE LEAK AND PRESSURE TESTED AS PER AWWA C600, IN THE PRESENCE OF A NEWMAN UTILITIES REPRESENTATIVE AND CERTIFIED IN WRITING BY THE INSTALLER PRIOR TO ACCEPTANCE.
- 7) THE INTRODUCTION OF POTABLE WATER INTO AN UNDISINFECTED LINE MUST BE ACCOMPLISHED THROUGH AN APPROVED BACK FLOW PREVENTION DEVICE. AT NO TIME SHALL INSTALLERS ALLOW CROSS-CONNECTION BETWEEN POTABLE WATER SYSTEMS AND NON-POTABLE SYSTEMS.
- 8) ALL NEW LINES SHALL BE DISINFECTED AS PER AWWA C601 AND CERTIFIED IN WRITING BY THE INSTALLER PRIOR TO ACCEPTANCE.
- 9) ALL WATER SYSTEM IMPROVEMENTS WILL COMPLY WITH "THE MINIMUM STANDARDS FOR PUBLIC WATER SYSTEMS", MAY 2000 EDITION.
- 10) ALL WATER SYSTEM PIPING SHALL BE BURIED A MIN. OF FOUR FEET DEEP
- 11) VALVES SHALL BE AWWA RESILANT GATE GATE VALVES WITH NRS, 2" OPERATING NUT AND OPENING TO THE LEFT BY AMERICAN DARLING OR APPROVED EQUAL.
- 12) VALVE BOXES WILL BE CAST IRON HEAVY TRAFFIC GRADE WITH ADJUSTABLE TOP, ALONG WITH 17 INCH (ROUND OR SQUARE) CONCRETE VALVE BOX PAD AND CONCRETE VALVE MARKER POST.
- 13) ALL METER BOXES USED OUTSIDE CONCRETE AREAS SHALL BE TYPE MSBC1416-12, MID-STATES PLASTICS OR EQUAL AS SHOWN IN THE DETAILS.
- 14) ALL METER BOXES USED IN CONCRETE AREAS SHALL BE C.I. RECTANGULAR METER BOX OR EQUAL AS SHOWN IN THE DETAILS.
- 15) NO FIELD CHANGES OR DEVIATIONS SHALL BE MADE WITHOUT PRIOR APPROVAL OF THE ENGINEER AND NEWMAN UTILITIES.
- 16) ANY COMMERCIAL AND/OR RESIDENTIAL APPLICATION REQUIRING FIRE FLOW PROTECTION SYSTEM, SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER AND REQUIRES A SEPARATE SERVICE TAP OFF OF MAIN.
- 17) THE WATER SYSTEM MUST BE DESIGN TO MAINTAIN A MINIMUM PRESSURE OF 20 PSI AT EACH SERVICE CONNECTION AND AT ALL POINTS IN THE DISTRIBUTION SYSTEM UNDER ALL CONDITIONS OF FLOW. THE NORMAL WORKING PRESSURE IN THE DISTRIBUTION SYSTEM SHOULD BE APPROXIMATELY 60 PSI AND NOT LESS THAN 35 PSI.

CONT WATER SYSTEM NOTES

- 18) THE WATER SYSTEM SHALL BE DESIGNED TO MAINTAIN MINIMUM FIRE FLOW PROTECTION AS WELL AS, MAINTAIN MINIMUM PRESSURE IN THE SYSTEM.
- 19) VALVES ARE TO BE PLACED AT ALL INTERSECTIONS OF WATER MAINS. VALVES SHOULD BE LOCATED AT NOT MORE THAN 500 FOOT-INTERVALS IN COMMERCIAL DISTRICTS AND AT NOT MORE THAN ONE BLOCK OR 800-FOOT INTERVALS IN OTHER DISTRICTS. WHERE SYSTEMS SERVE WIDELY SCATTERED CUSTOMERS, THE VALVE SPACING SHOULD NOT EXCEED 4000 FEET.
- 20) AT HIGH POINTS IN WATER MAINS WHERE AIR CAN ACCUMULATE, PROVISIONS SHALL BE MADE TO REMOVE THE AIR BY MEANS OF HYDRANTS OR AIR RELIEF VALVES. AUTOMATIC AIR RELIEF VALVES SHALL NOT BE USED IN AREAS WHERE FLOODING OF MANHOLE OR CHAMBER MAY OCCUR.
- 21) THE INSTALLATION OF DUCTILE IRON PIPE WITH RESTRAINED PUSH-ON JOINTS AND ENCASED IN CONCRETE, MAY BE CONSIDERED WITH PRIOR APPROVAL OF THE DIVISION, OTHERWISE, WHEN CROSSING WATER COURSES WHICH ARE GREATER THAN 15 FEET IN WIDTH, ONLY PIPES OF SPECIAL CONSTRUCTION, HAVING FLEXIBLE, WATERTIGHT JOINTS SHALL BE INSTALLED.
- 22) VALVES SHALL BE PROVIDED AT BOTH ENDS OF WATER CROSSINGS SO THAT THE SECTION CAN BE ISOLATED FOR TESTING OR REPAIR (VALVES SHALL BE ACCESSIBLE AND NOT SUBJECT TO FLOODING); THE VALVE CLOSEST TO THE SUPPLY SOURCE SHALL BE IN A MANHOLE.
- 23) SAMPLING TAPS SHALL BE INSTALLED AT EACH END OF THE CROSSING, AND PERMANENT TAPS SHALL BE MADE FOR TESTING AND DETERMINING LEAKS.
- 24) SOLVENT-CEMENTED JOINTS ARE NOT ALLOWED FOR BURIED PIPES.
- 25) WATER MAINS SHALL BE LAID AT LEAST TEN (10) FEET HORIZONTALLY FROM ANY EXISTING OR PROPOSED SANITARY SEWER, STORM SEWER OR SEWER MANHOLE. THE DISTANCE SHALL BE MEASURE EDGE TO EDGE.
- 26) WHENEVER A STATE ROUTE OR HEAVILY TRAVELED OFF-SYSTEM ROAD OR A RAIL-ROAD IS CROSSED, THE AGENCY THAT HAS JURISDICTION OVER THE ROAD OR THE RAIL-ROAD MUST BE NOTIFIED, PRIOR TO INSTALLATION OF THE MAINS. AT THE CROSSING, A STEEL CASING WITH SUFFICIENT DIAMETER BE JACKED AND BORRED TO ACCOMMODATE THE CARRIER PIPE. ANY FREE BORING AT LOW TRAFFIC CITY STREETS AND COUNTY ROADS MUST CONFORM TO THE APPLICABLE LOCAL AND/OR STATE REQUIREMENTS.
- 27) 2" WATER LINES SHALL NOT EXTEND NO GREATER THAN 1000 FEET FROM MAIN. IF 2" INCH WATER LINE IS NOT LOOP BACK INTO MAIN THAN NO GREATER THAN 20 RESIDENT CAN BE ATTACHED ON 2 INCH SERVICE. IF 2" WATER LINE IS LOOPED THAN NO MORE THAN 40 RESIDENTS CAN BE ATTACHED.
- 28) ALL RESIDENTIAL LOTS, UNITS(APARTMENTS), AND TOWNHOME SHALL BE INDIVIDUALLY METER.
- 29) EACH INDIVIDUAL BUSINESS SHALL BE SEPERATELY METERED.
- 30) WHEN WATER MAIN IS ATTACHED TO BRIDGE BY PIPE SUPPORTS, THE PIPE SUPPORTS SHALL BE PLACE 2 FT. ON EACH SIDE OF EVERY PIPE JOINT.

NEWMAN UTILITIES

GENERAL NOTES

Drawn By: S. Tolar

Inspected By:

NEWMAN UTILITIES

WATER SYSTEM NOTES

Drawn By: S. Tolar

Inspected By:

NEWMAN UTILITIES

WATER SYSTEM NOTES CONT

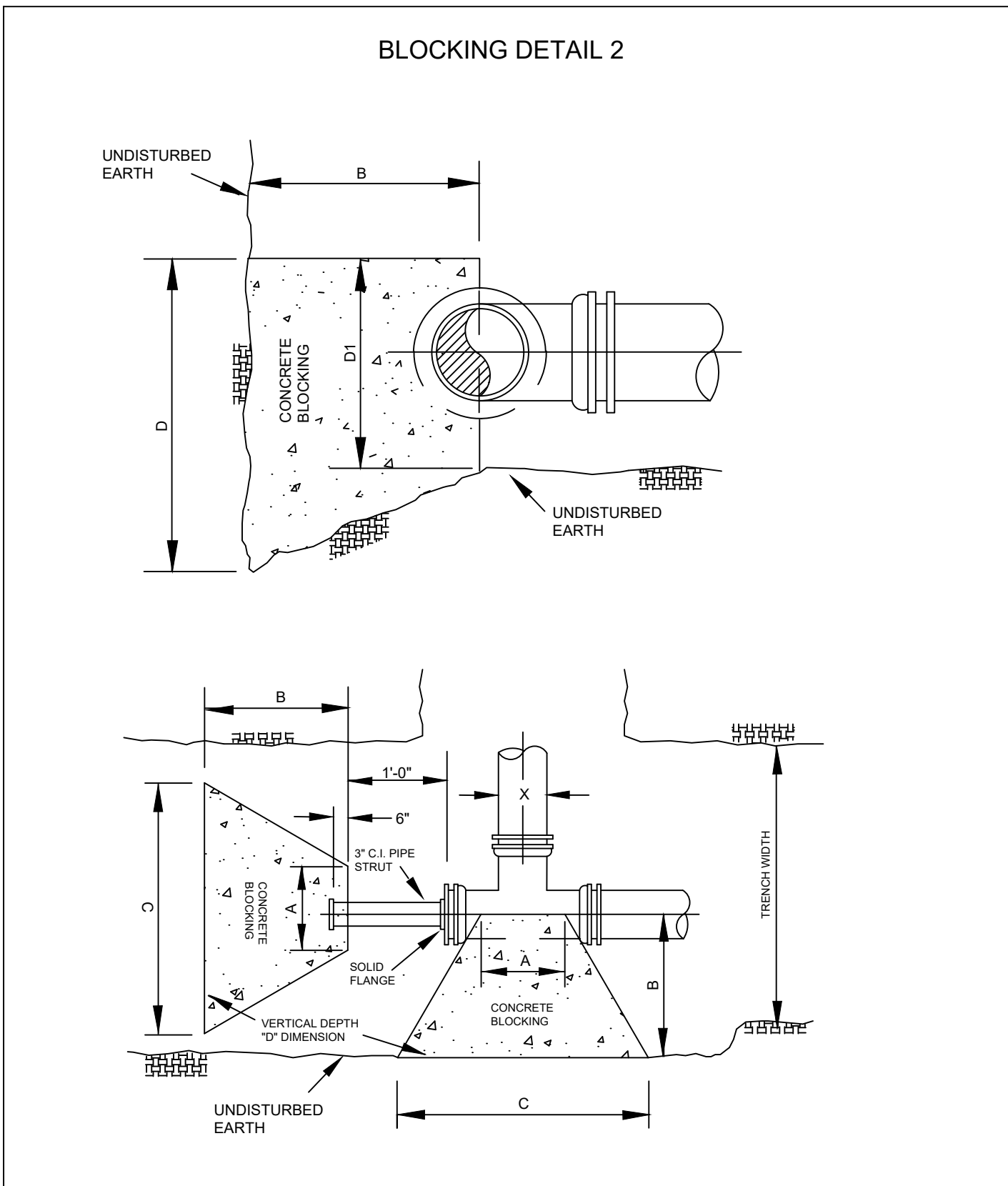
Drawn By: S. Tolar

Inspected By:

N-001

N-002

N-003



NEWMAN UTILITIES

BLOCKING DETAIL 2

Drawn By: S. Tolar

Inspected By:

PI-010

HORIZONTAL CONCRETE BLOCKING DIMENSIONS

FITT.	SIZE	A	B	C	D	D1	NOTE	SPEC. BLKG.
TEE	30"							
	24"	2'-2"	2'-9"	6'-9"	4'-0"	3'-4"		
	16"	1'-10"	2'-6"	2'-8"	3'-0"	3'-0"		
	12"	1'-2"	2'-6"	2'-4"	3'-0"	2'-2"		
	8"	0'-10"	2'-4"	1'-2"	2'-8"	1'-10"		
90 BEND	30"	2'-6"	6'-9"	13'-4"	4'-6"	3'-10"		
	24"	2'-0"	4'-6"	9'-6"	4'-0"	3'-4"		
	16"	1'-6"	3'-0"	4'-6"	3'-10"	2'-4"		SEE VERT. BLKG.
	12"	1'-0"	2'-6"	3'-2"	3'-0"	2'-2"		
	8"	0'-8"	2'-4"	1'-8"	2'-8"	1'-10"		
45 BEND OR WYE	30"							
	24"	1'-0"	2'-6"	5'-3"	4'-0"	3'-4"		
	16"	0'-10"	2'-2"	3'-0"	3'-2"	2'-4"		
	12"	0'-6"	2'-6"	2'-0"	3'-0"	2'-2"		SEE VERT. BLKG.
	8"	0'-4"	2'-4"	1'-0"	2'-8"	1'-10"		
22 1/2" BEND	30"							
	20"	0'-10"	2'-10"	2'-0"	3'-8"	2'-10"		SEE VERT. BLKG.
	8"	0'-4"	2'-4"	1'-0"	2'-8"	1'-10"		
	6"	0'-3"	2'-3"	1'-0"	2'-6"	1'-8"		
	4"	"	"	"	"	"		
11 1/4" BEND	12"	0'-6"	2'-6"	1'-0"	3'-0"	2'-2"		
	8"	0'-4"	2'-4"	1'-0"	2'-8"	1'-10"		
	6"	0'-3"	2'-3"	1'-0"	2'-6"	1'-8"		
	4"	"	"	"	"	"		
	4"	"	"	"	"	"		

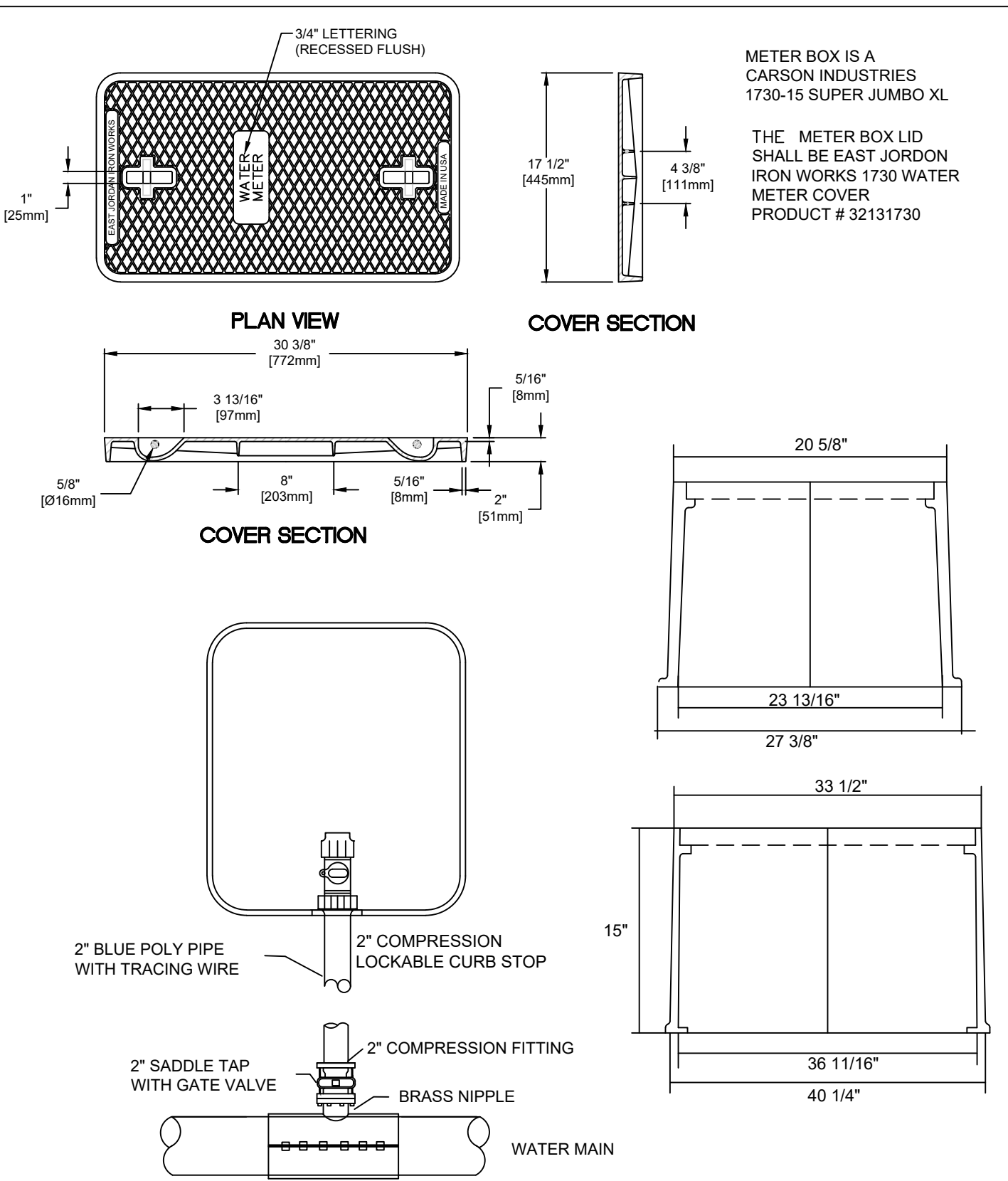
NEWMAN UTILITIES

CONCRETE BLOCKING TABLE

Drawn By: S. Tolar

Inspected By:

PI-011



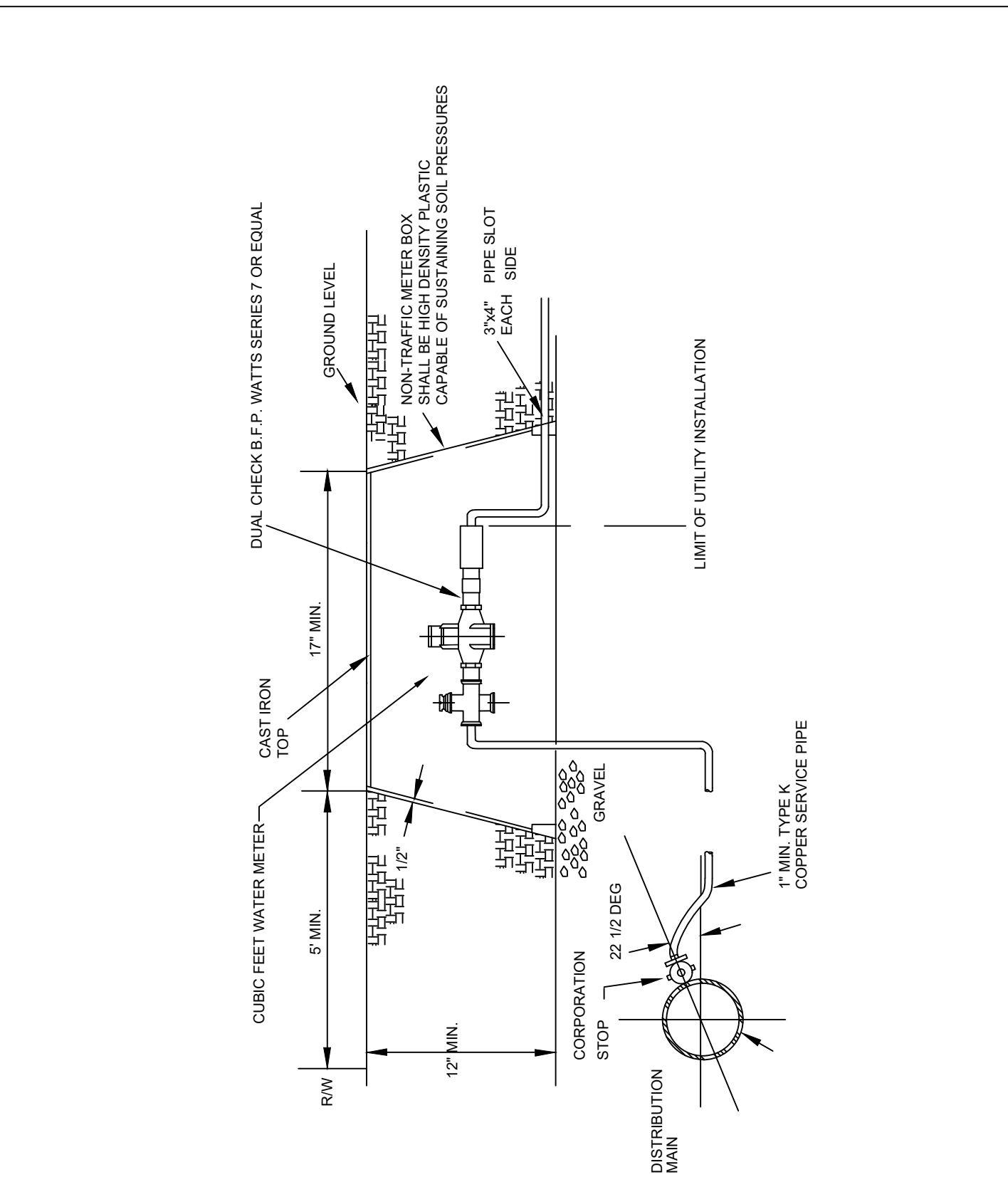
NEWMAN UTILITIES

2" METER BOX AND WATER TAP

Drawn By: S. Tolar

Inspected By:

W-002



NEWMAN UTILITIES

TYPICAL RESIDENTIAL WATER METER INSTALLATION

Drawn By: S. Tolar

Inspected By:

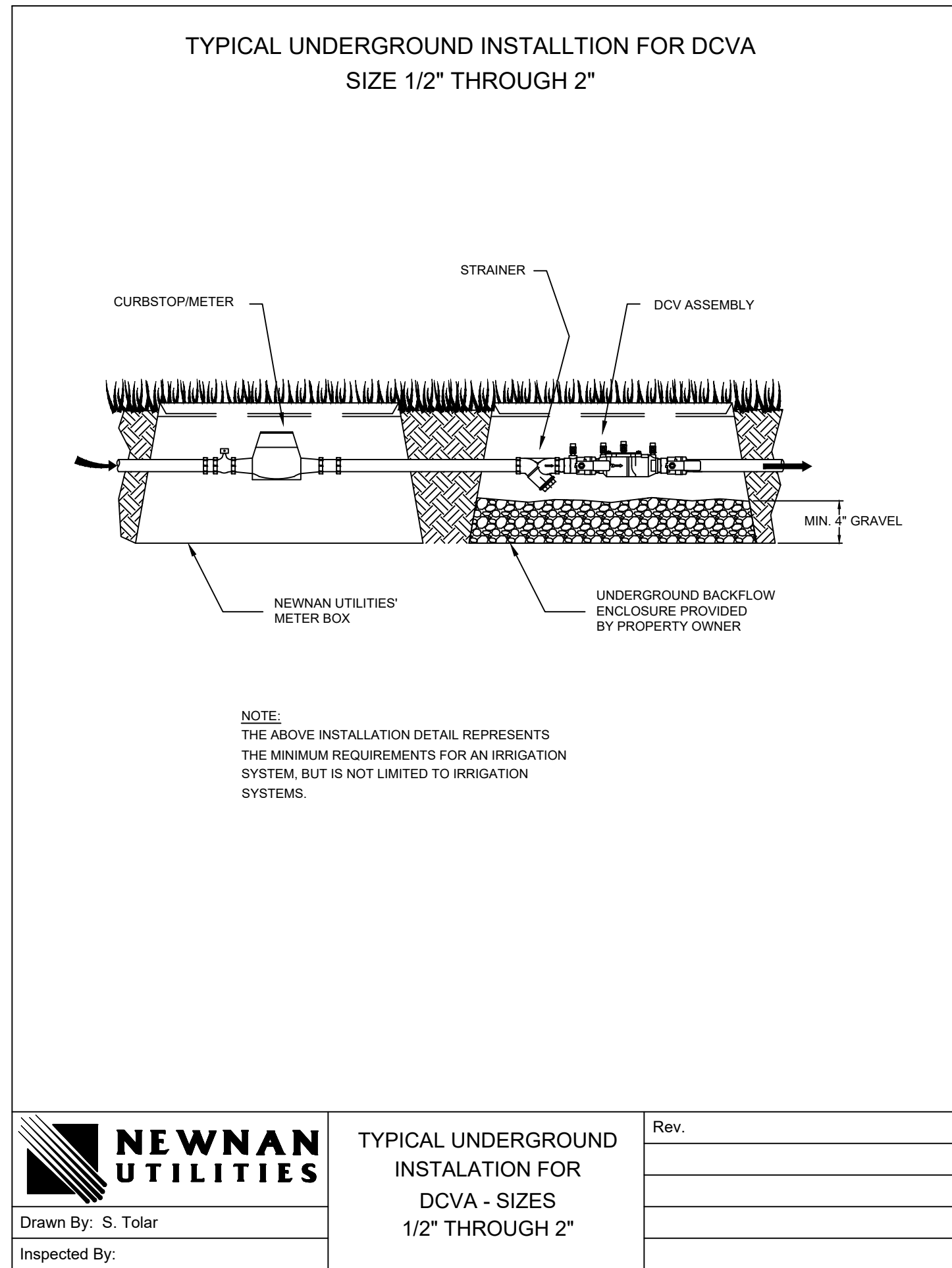
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Rev.	Description	Date
1.	ISSUED FOR REVIEW	5/6/24

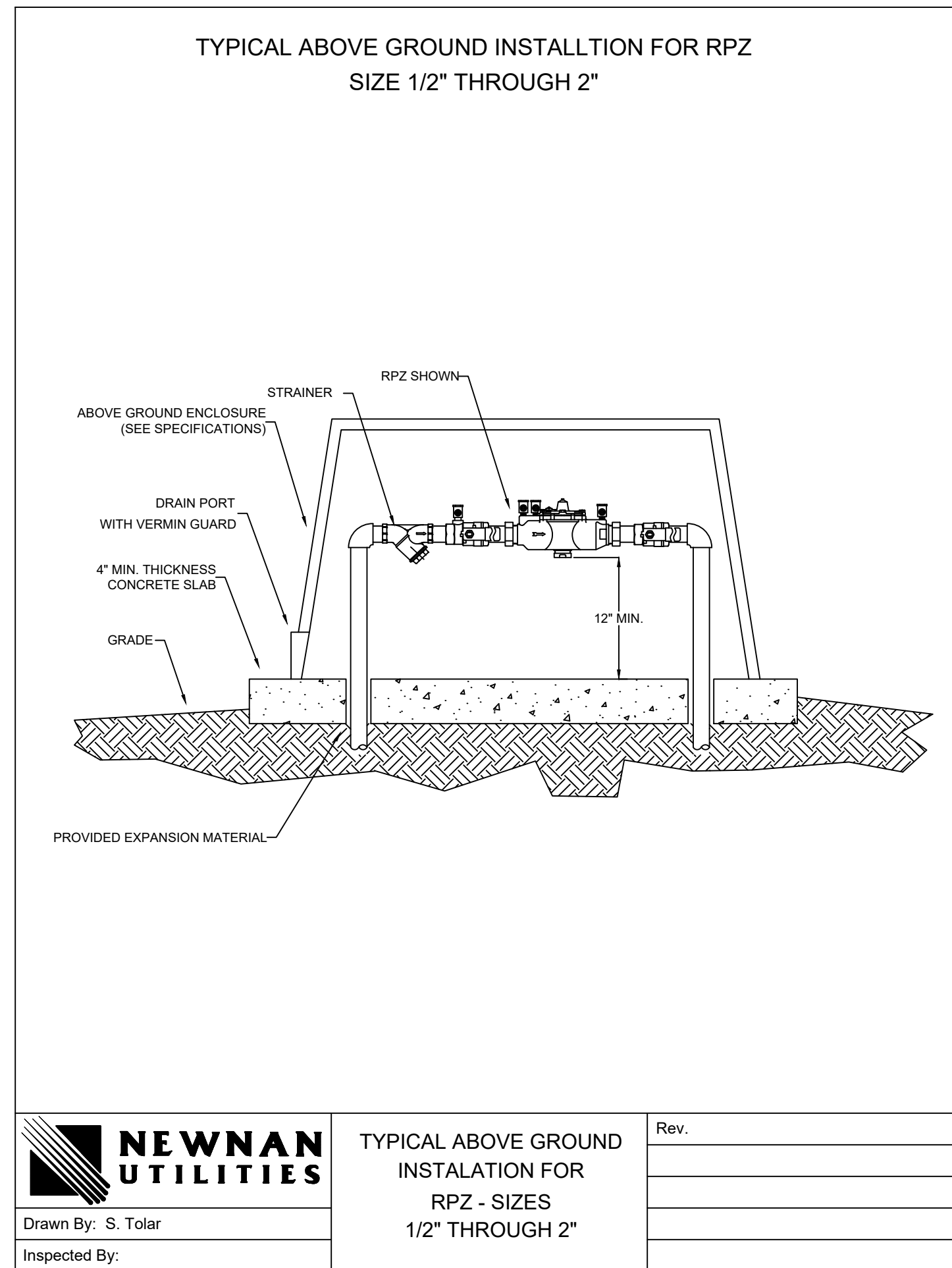
CONSTRUCTION DETAILS
 SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS
 LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWMAN, COWETA COUNTY, GEORGIA



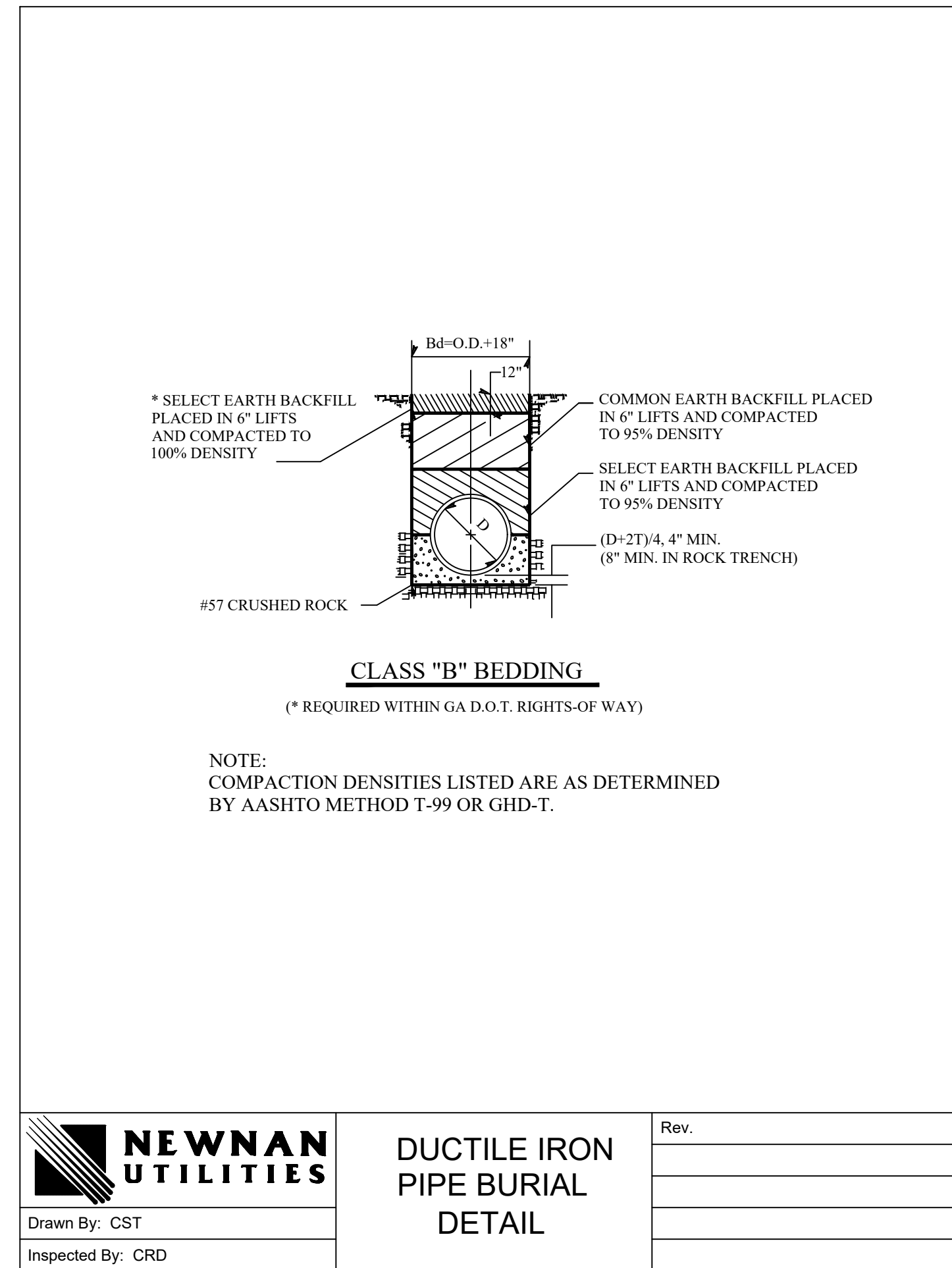
DRAWING NO. C702



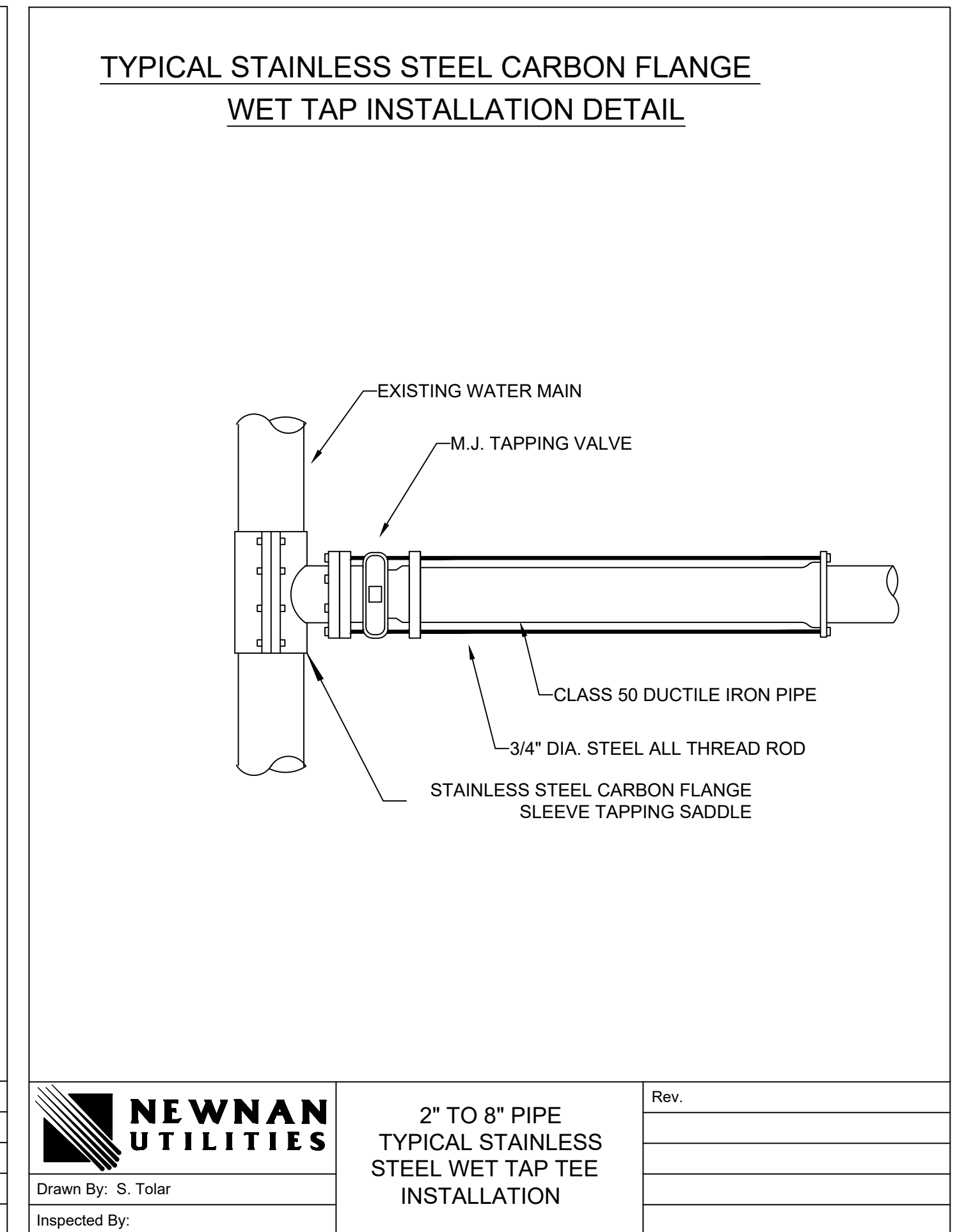
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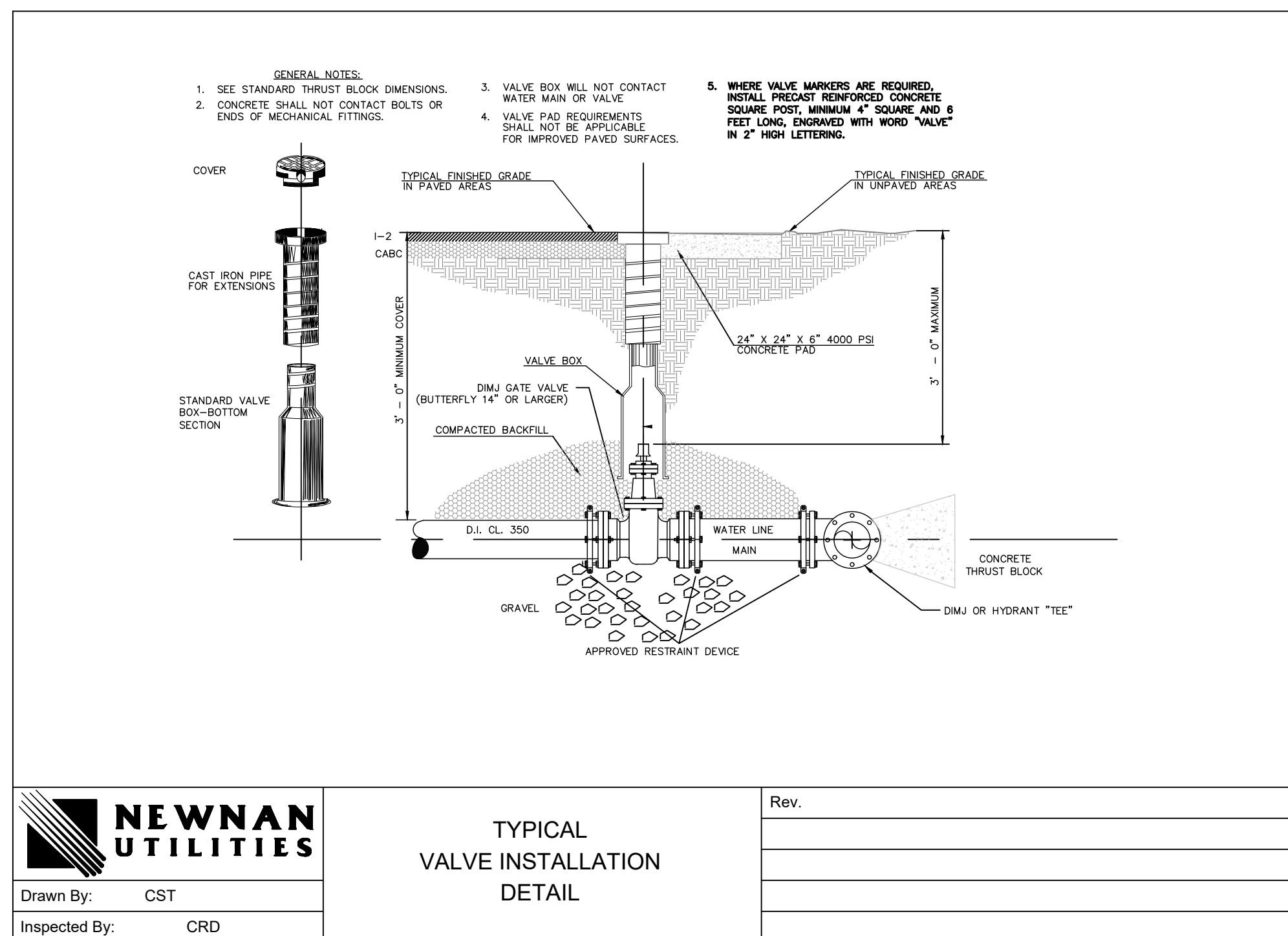
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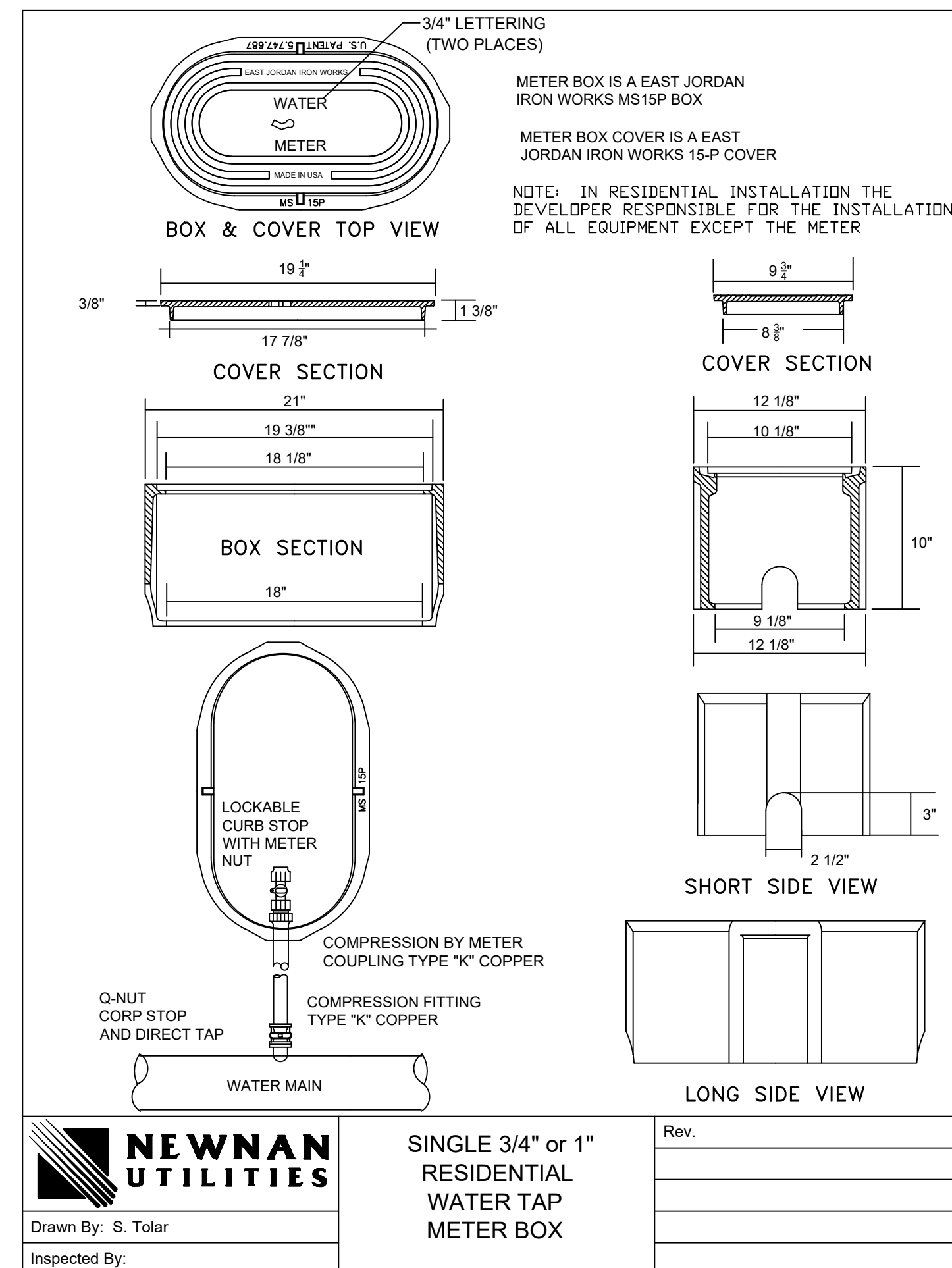
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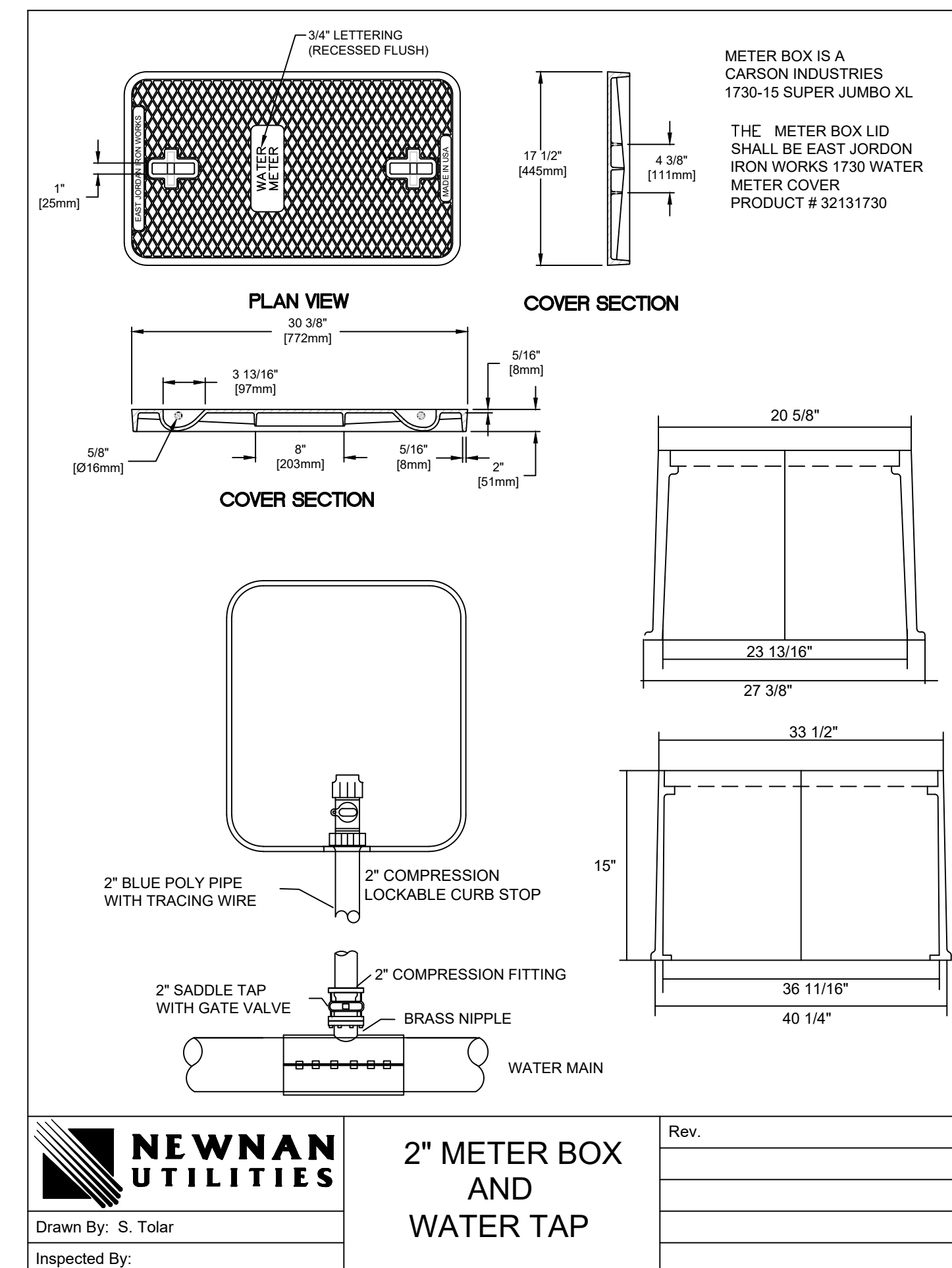
W-013



W-011



W-001



W-002

Rev.	Date	Description
1.	5/6/24	ISSUED FOR REVIEW

Check By:	RKA
Drawn By:	EAM
Date:	5/6/24

CONSTRUCTION DETAILS

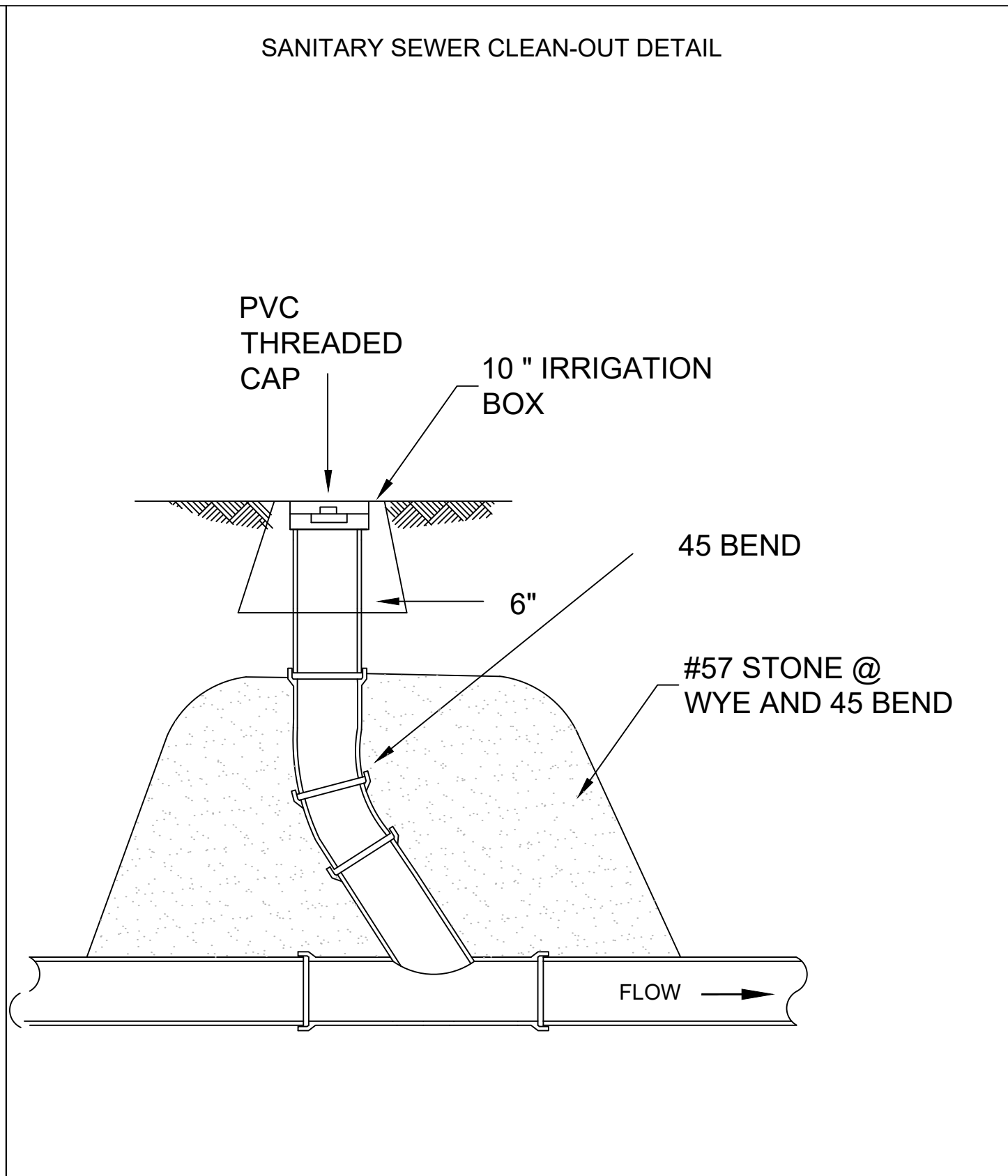
SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS

LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWMAN, COWETA COUNTY, GEORGIA



DRAWING NO. C703

- SEWER SYSTEM**
- 1) ALL GRAVITY SEWER COLLECTION PIPING SHALL BE A MINIMUM OF 8 INCH DIAMETER, SDR 26 PVC OR CLASS 350 SEWER COATED DIP (PROTECTO 401 LINING OR EQUAL IMPROVED BY NEWNAN UTILITIES).
 - 2) SIX INCH TAPS SHALL BE MADE IN THE LINE OR MANHOLE. ALL TAPS LARGER THAN 6 INCHES WILL BE MADE AT MANHOLES.
 - 3) LINES SHALL BE RUN STRAIGHT, AND ON A CONSTANT GRADE BETWEEN MANHOLES WITH CONTROL BY A LASER SIGHTING OR SIMILAR DEVICE.
 - 4) GENERALLY GRAVITY LINES SHALL BE INSTALLED UPHILL WITH THE BELLS POINTED UPHILL.
 - 5) THE INSTALLER SHALL USE ONLY APPROVED PIPE LUBRICANT FOR PIPE MAKE UP. THE USE OF PETROLEUM BASED LUBRICANT SHALL NOT BE ALLOWED.
 - 6) MANHOLES SHALL BE PRECAST REINFORCED CONCRETE MANUFACTURED IN ACCORDANCE WITH ASTM C478 WITH A MINIMUM CONCRETE COMPRESSIVE STRENGTH OF 4000 PSI.
 - 7) MANHOLE BOTTOM SHALL BE A MINIMUM OF 6" THICK AND WALLS SHALL BE A MINIMUM OF 5" INCHES THICK.
 - 8) THE MINIMUM NOMINAL INSIDE DIAMETER OF A MANHOLE SHALL BE 4 FEET. THE ECCENTRIC TOP SECTION SHALL REDUCE TO 2 FEET NOMINAL INSIDE DIAMETER.
 - 9) ALL MANHOLES SHALL HAVE PLASTIC COATED STEEL STEPS AT 12 INCH 16 INCH CENTERS EITHER CAST IN PLACE OR DRILLED AND EPOXIED.
 - 10) ALL SANITARY SEWER LINES BURIED GREATER THAN 15 FEET OR LESS THAN 4 FEET SHALL BE DUCTILE IRON.
 - 11) ALL SEWER MAINS SHALL BE SUBJECTED TO A LOW-PRESSURE AIR TEST AND A DEFLECTION TEST. ALLOWABLE DEFLECTION SHALL BE NO GREATER THAN 3% OF THE UNDEFLECTED DIAMETER.
 - 12) ALL SEWER MAINS SHALL BE CAMERA VIDEO TAPED, AND JETTED AT END OF WARRANTY.
 - 13) ALL SEWER TAPS SHALL BE 6" SDR-26 FITTINGS
 - 14) ALL SEWER TAPS CLEAN-OUTS SHALL BE LOCATED 3 FEET OUTSIDE THE RIGHT-OF-WAY.
 - 15) ALL SANITARY SEWER MANHOLES LOCATED IN NON TRAFFIC AREAS, SHALL BE PRECASTOR APPROVED EQUAL, AND BE A MIN. OF 24" ABOVE THE ADJACENT GRADE.
 - 16) BOLT DOWN MANHOLE COVER AS REQUESTED BY NEWNAN UTILITIES.
 - 17) ASBUILT DRAWINGS SHALL INCLUDE ACCURATE DISTANCE FROM UPSTREAM OR DOWNSTREAM MANHOLE TO ALL SEWER TAPS. ALSO VIDEO TAPE OF SEWER MAIN WITH DISTANCE TO TRAP WILL BE SUBMITTED WITH ASBUILTS.
 - 18) ALL SEWER CLEAN-OUTS WITH CAPS LOCATED IN TRAFFIC AREAS SHALL HAVE U.S. FOUNDARY & MFG COVER USF 7635 RING AND FG COVER OR APPROVED EQUAL. THIS INCLUDES COMMERCIAL AND RESIDENTIAL DRIVEWAYS AND PARKING LOTS.
 - 19) ALL SEWER CLEAN-OUTS WITH CAPS LOCATED IN GRASSED OR LANDSCAPED AREAS SHALL BE COVERED BY NDS PRO SERIES 10" ROUND VALVE BOX OR APPROVED EQUAL.
 - 20) ALL SEWER LATERALS MUST HAVE TRACING WIRE OR LOCATABLE DITCH TAPE FROM THE SEWER MAIN TO SEWER CLEANOUT LOCATED AT EASEMENT LINE.

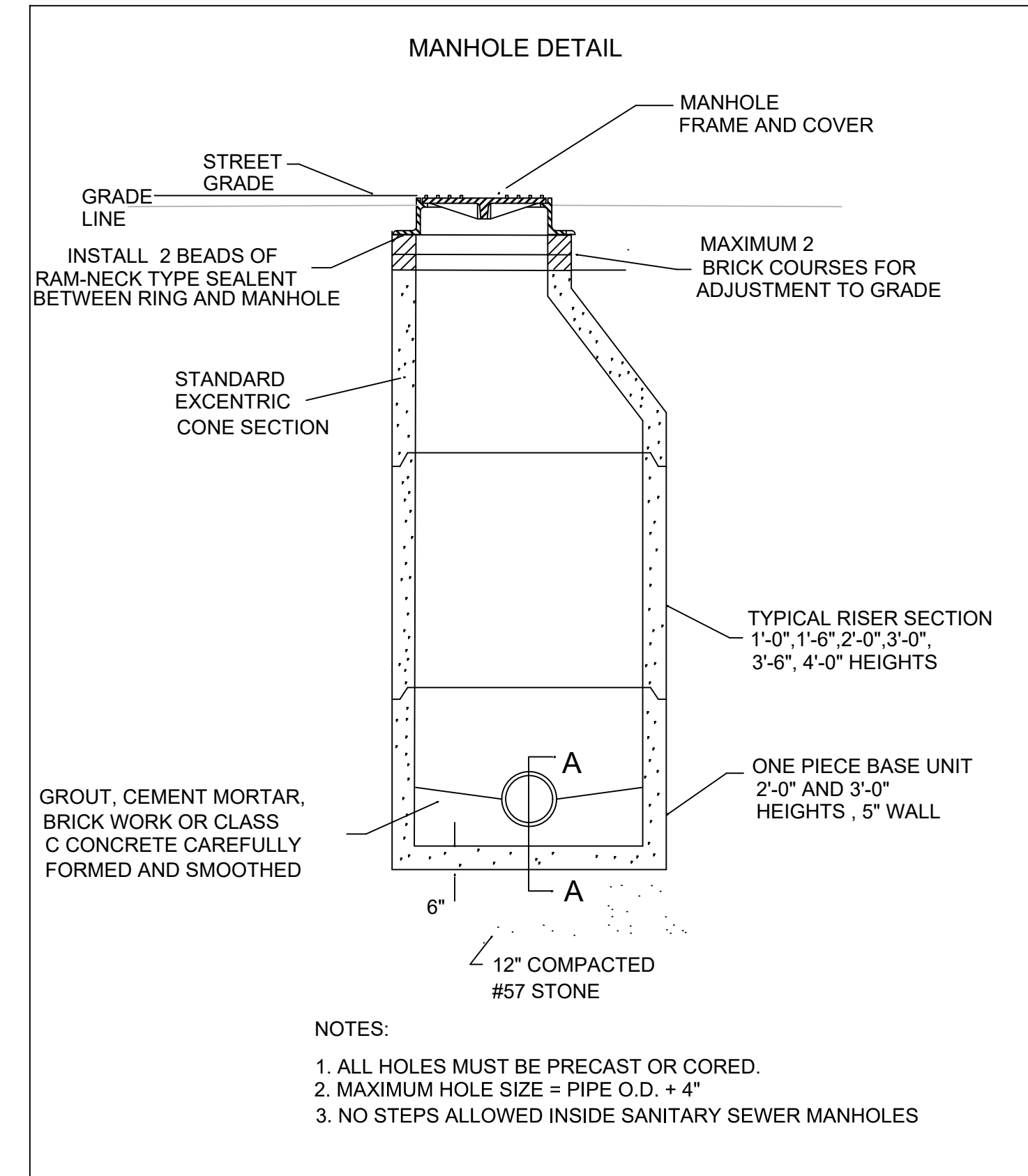


	SEWER SYSTEM	Rev.
Drawn By: S. Tolar		
Inspected By:		

N-004

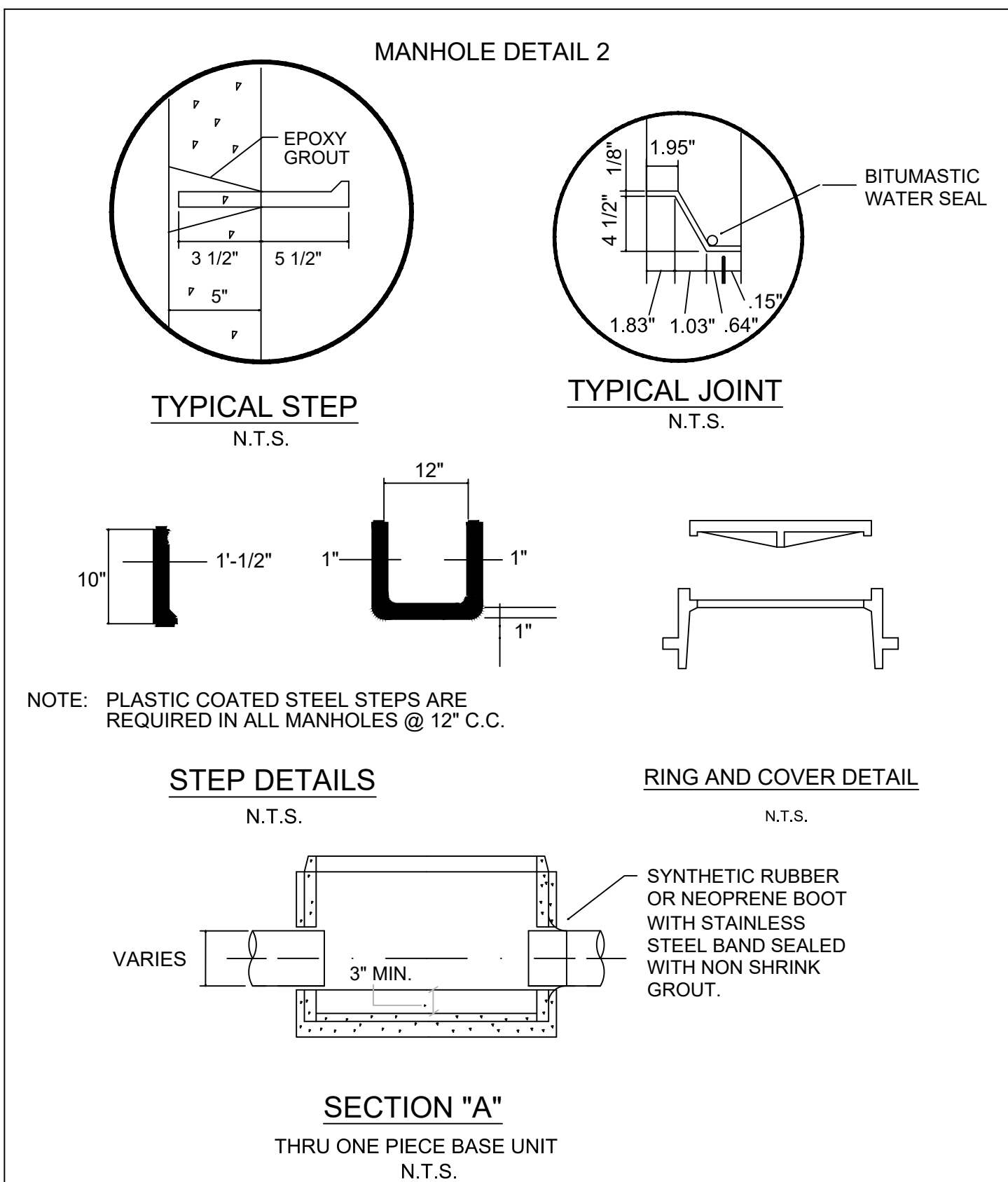
	SANITARY SEWER CLEAN-OUT DETAIL	Rev.
Drawn By: S. Tolar		
Inspected By:		

S-001



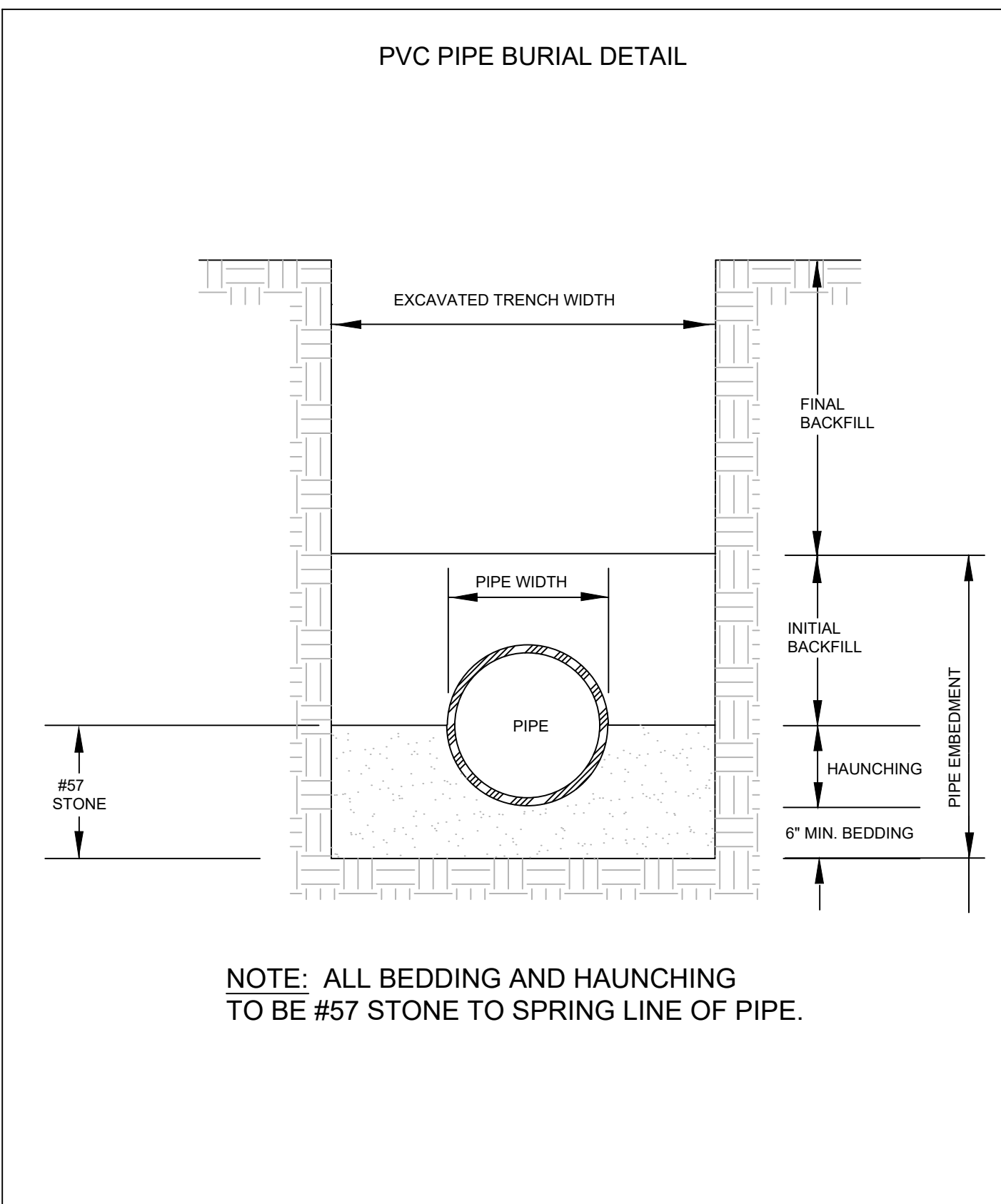
	MANHOLE DETAIL	Rev.
Drawn By: S. Tolar		
Inspected By:		

S-004



	MANHOLE DETAIL 2	Rev.
Drawn By: S. Tolar		
Inspected By:		

S-005



	PVC PIPE BURIAL DETAIL	Rev.
Drawn By: S. Tolar		
Inspected By:		

PI-001

Rev.	Description	Date
1.	ISSUED FOR REVIEW	5/6/24

Check By:	RKA
Drawn By:	EAM
Date:	5/6/24

CONSTRUCTION DETAILS

SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS
LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWNAN, COWETA COUNTY, GEORGIA



DRAWING NO. C704

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**STANDARD
PRECAST REINFORCED CONCRETE
MANHOLE**

NO SCALE AUGUST 1979

DESIGNED BY: *[Signature]*
CHECKED BY: *[Signature]*
DATE: 10/1-A

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**STANDARD
DROP INLETS
(BUILT-IN-PLACE)**

REV. & REPR. AUG. 1999

DESIGNED BY: *[Signature]*
CHECKED BY: *[Signature]*
DATE: 1019A

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**STANDARD
PIPE CULVERT
CONCRETE HEADWALL**

NO SCALE REV. & REPR. AUG. 1999

DESIGNED BY: *[Signature]*
CHECKED BY: *[Signature]*
DATE: 1001-B

RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN. TRENCH WIDTH
4"	21"
6"	23"
8"	26"
10"	28"
12"	30"
15"	34"
18"	38"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
54"	88"
60"	96"

MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PIPE DIAM.	H-25 HEAVY CONSTRUCTION (75T AXLE LOAD) *
12" - 48"	12"
54" - 60"	24"

MINIMUM RECOMMENDED COVER BASED ON ROADWAY LOADING CONDITIONS

PIPE DIAM.	COOPER E-80**
UP TO 24"	24"
30" - 36"	36"
42" - 60"	48"

NOTES:

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST EDITION.
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL WHEN REQUIRED.
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER, UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE: 4" (100mm) FOR 4"-24" (100mm-600mm); 6" (150mm) FOR 30"-60" (750mm-1500mm).
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING NOT LESS THAN 6" ABOVE CROWN OF PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION.
- MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 54"-60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

**DEPARTMENT OF TRANSPORTATION
STATE OF GEORGIA**

**STANDARD
TRENCH
DETAIL**

NO SCALE

DESIGNED BY: *[Signature]*
CHECKED BY: *[Signature]*
DATE: 1001-C

DATE: 5/16/24
CHECKED BY: RKA
DRAWN BY: EAM

ISSUED FOR REVIEW
DATE: 5/16/24
REV. DESCRIPTION

CONSTRUCTION DETAILS

SITE DEVELOPMENT PLANS FOR B2 CONTRACTING WORLD HEADQUARTERS

LAND LOTS 73 AND 74 OF THE 5TH DISTRICT, CITY OF NEWMAN, COWETA COUNTY, GEORGIA

NOT FOR CONSTRUCTION

DATE: 5/16/24
DRAWING NO. C705