

Legion Pond Dam Alternative Selection

Town of Chapel Hill, North Carolina

100% Progress Plans

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PROJECT NARRATIVE

A PARCEL OWNED BY THE TOWN OF CHAPEL HILL LOCATED AT 1714 LEGION RD IN CHAPEL HILL, NORTH CAROLINA CONTAINS A 3-ACRE POND AND DAM, ORIGINALLY IMPLEMENTED AS A FARM POND MORE THAN 60 YEARS AGO, AS WELL AS THE FORMER HEADQUARTERS OF THE LOCAL CHAPTER OF THE AMERICAN LEGION. JURISDICTIONAL DETERMINATIONS BY NCDWR AND USACE HAVE BEEN CONDUCTED ON THE PROJECT SITE AND DETERMINED NO JURISDICTIONAL WATERS OR STREAM BUFFERS WITHIN THE PROPOSED AREA. THE PROJECT SITE DRAINS TO AN UNNAMED TRIBUTARY TO BOOKER CREEK (WS-V, NSW) WHICH FLOWS INTO THE JORDAN LAKE WATERSHED WHICH IS PART OF THE CAPE FEAR RIVER BASIN. THE TOWN SEEKS TO BREACH THE EXISTING POND EMBANKMENT AND REBUILD IN ITS PLACE A DETENTION BASIN WHICH PROVIDES SIMILAR STORMWATER PEAK FLOW MANAGEMENT TO THAT WHICH THE EXISTING POND CURRENTLY PROVIDES.

SEQUENCE OF CONSTRUCTION

- OBTAIN NECESSARY PERMITS.
 - EROSION AND SEDIMENT CONTROL (E&SC) PERMIT AND A CERTIFICATE OF COVERAGE (COC) MUST BE OBTAINED BEFORE ANY LAND DISTURBING ACTIVITIES (INCLUDING TIMBERING AND DEMOLITION) OCCUR. THE COC CAN BE OBTAINED BY FILLING OUT THE ELECTRONIC NOTICE OF INTENT (e-NOI) FORM AT <https://www.deq.nc.gov/NCG01>. PLEASE NOTE, THE e-NOI FORM MAY ONLY BE FILLED OUT ONCE THE PLANS HAVE BEEN APPROVED. A COPY OF THE E&SC PERMIT, THE COC, AND A HARD COPY OF THE PLAN MUST BE KEPT ON SITE, PREFERABLY IN A PERMITS BOX, AND ACCESSIBLE DURING INSPECTION.
- CONTRACTOR SHALL BE RESPONSIBLE TO SCHEDULE PRE AND POST CONSTRUCTION STORMWATER INSPECTION.
- SET UP PRE-CONSTRUCTION MEETING AT LEAST ONE WEEK BEFORE ANY CONSTRUCTION ACTIVITY BEGINS.
- CONTRACTOR TO NOTIFY THE NORTH CAROLINA DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES (DEMLR) RALEIGH REGIONAL OFFICE AT LEAST 48 HOURS PRIOR TO COMMENCING ANY LAND-DISTURBING ACTIVITY. THE CONTACT NUMBER IS (919) 791-4200.
- HAVE THE PROJECT CLEARING LIMITS FLAGGED.
- MOBILIZATION.
- ERECT CONTRACTOR STAGING AREAS.
 - STOCKPILES, LAYDOWN OR WASTE AREAS, CONCRETE WASHOUTS, PORTABLE TOILETS, AND FUELS MUST BE LOCATED AT LEAST 50 FEET AWAY FROM ANY OPEN WATER CONVEYANCES, SUCH AS BASINS, DITCHES, STORM DRAIN INLETS, ETC. THE LOCATION OF THESE ACTIVITIES MAY BE FIELD ADJUSTED IF THE DISTANCE REQUIREMENTS ARE MET.
- INSTALL TREE PROTECTION, SILT FENCE, CONSTRUCTION ENTRANCE, AND ALL EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON PLANS. LIMIT CLEARING AND LAND DISTURBING ACTIVITY TO ONLY THE AREA NECESSARY TO INSTALL PERMITTED MEASURES. ONLY MINIMAL CLEARING SHOULD BE PERFORMED AS NEEDED TO INSTALL THE FENCING.
 - TAKE PRECAUTION TO AVOID CAUSING ROOT DAMAGE TO TREES JUST OUTSIDE OF THE CLEARING LIMITS. IF ROOT DAMAGE TO A TREE OUTSIDE OF THE CLEARING LIMITS IS UNAVOIDABLE, CONSULT WITH THE ENGINEER TO DETERMINE THE NEED TO REMOVE IT. THIS WILL BE CONSIDERED INCIDENTAL TO THE LUMP SUM GRADING AND/OR CLEARING AND GRUBBING.
- INSTALL PUMP IN POND AND STILLING BASIN ON NORTHERN SIDE OF ROAD.
- DRAIN POND.
- DEMOLISH SITE AS INDICATED ON PLANS.
- INSTALL RISER STRUCTURE, TRASH RACK, AND OUTLET PIPE.
- INSTALL BAFFLES AND SKIMMERS INSIDE SEDIMENT POND.
- CONSTRUCT CONCRETE EMERGENCY SPILLWAY AND RIP RAP PROTECTION.
- FILL DIRT TO BE PLACED AND PERFORM ROUGH GRADING OF THE SITE ONCE THE SITE IS DRAINED, DEMOLISHED, THE OCS IS INSTALLED, AND ALL EROSION CONTROL MEASURES ARE INSTALLED.
- MAINTAIN EROSION CONTROL MEASURES AS WORK PROGRESSES. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AND MAINTAINED, IF NEEDED, AT LEAST ONCE PER WEEK AND AFTER EVERY QUALIFYING RAINFALL EVENT.
- INSTALL TEMPORARY SEEDING IMMEDIATELY FOLLOWING ALL ROUGH GRADING.
- STABILIZATION IS REQUIRED WITHIN 14 CALENDAR DAYS OF COMPLETION OF ANY GRADING OR INACTIVITY ON PROJECT SITE.
- INSTALL ALL PROPOSED UTILITIES, STORM DRAINAGE, STRUCTURES, AND PIPES.
- FINE GRADE REMAINING SITE.
- INSTALL TEMPORARY SEEDING IN ALL DENUDED AREAS AS NEEDED IF PERMANENT SEEDING AND LANDSCAPING NOT READY TO BE INSTALLED.
- SITE STABILIZATION IS REQUIRED PRIOR TO FINAL APPROVAL. GRASS UTILIZED AS PERMANENT GROUND COVER MUST BE AT A MOWABLE HEIGHT THAT GENERALLY PROVIDES AT LEAST 80% COVERAGE THROUGHOUT THE SITE, WITH NO LARGE BARE PATCHES OR EVIDENCE OF EROSION.
- INSTALL HARDSCAPE, INCLUDING SIDEWALK AND PAVING OPERATIONS (IF REQUIRED).
- INSTALL LANDSCAPING.
- CLEAN STORM SEWER PIPES, DROP INLETS, AND STORM STRUCTURES OF DEBRIS AND ERODED MATERIAL DURING THE LAST STAGES OF CONSTRUCTION.
- ALL EXCAVATED MATERIAL SHALL BE DISPOSED OF IN A LAWFUL MANNER.
- REMOVE TEMPORARY EQUIPMENT, CONSTRUCTION MATERIALS, AND DEBRIS FROM SITE.
- AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY CONTROL MEASURES AND INSTALL PERMANENT VEGETATION ON ANY REMAINING DISTURBED AREAS. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF FINAL STABILIZATION OR AS DIRECTED BY CIVIL INSPECTOR. NO EROSION CONTROL MEASURES SHOULD BE REMOVED UNTIL THE SITE IS INSPECTED AND STABILIZATION IS CONFIRMED.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DISPOSAL OF ANY WASTE SOIL FROM THE PROJECT TO ANOTHER SITE INCLUDING APPROVED EROSION AND SEDIMENT CONTROL. PLAN FOR THE DISPOSED MATERIAL.
- CONTACT TOWN OF CHAPEL HILL TO SUBMIT INSPECTION REQUEST. CONTRACTOR SHALL BE RESPONSIBLE TO SCHEDULE A STORMWATER FINAL INSPECTION.
- WHEN THE PROJECT IS COMPLETE AND PERMANENT STABILIZATION IS ACHIEVED, THE PERMITTEE SHALL CONTACT DEMLR TO CLOSE OUT THE E&SC PLAN. AFTER DEMLR INFORMS THE PERMITTEE OF THE PROJECT CLOSE OUT, VIA INSPECTION REPORT, THE PERMITTEE SHALL VISIT <https://www.deq.nc.gov/NCG01> TO SUBMIT AN ELECTRONIC NOTICE OF TERMINATION (E-NOT). A \$127 ANNUAL GENERAL PERMIT FEE WILL BE CHARGED UNTIL THE E-NOT HAS BEEN FILLED OUT.

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Call 811 Before You Dig



VICINITY MAP:



PROJECT LOCATION:

1714 Legion Rd,
Chapel Hill, NC 27517

CLIENT INFORMATION:

Town of Chapel Hill
6850 Millhouse Rd,
Chapel Hill, NC 27516-8173

Tt PROJECT No.:

100-WTR-T43655

CLIENT PROJECT No.:

P27-04R

PROJECT DESCRIPTION / NOTES:

6.87 TOTAL ACRES DISTURBED

ISSUED:

FOR BIDDING:
AUGUST 26, 2026



PROJECT AREA

8/24/2026 1:14:26 PM - C:\USERS\BLAKE.CARY\ONEDRIVE - TETRA TECH, INC\PROJECTS\NORTH CAROLINA\LEGION POND DAM\CAD VERSIONS\08-24-26 VERSION - BIDDING REPORT\SHEET SET\G - GENERAL NOTES.DWG - CARY, BLAKE

GENERAL NOTES

1. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT AND TRANSPORTATION NECESSARY FOR THE PROPER EXECUTION OF THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND ALL INCIDENTAL WORK NECESSARY TO COMPLETE THE PROJECT IN AN ACCEPTABLE MANNER, READY FOR USE, OCCUPANCY, OR OPERATION BY THE OWNER.
2. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO INCORPORATE ALL APPLICABLE DRAWINGS AND THE APPROPRIATE SPECIFICATIONS AS A UNIT. ANY OMISSIONS, DELETIONS, OR CONFLICTS ARISING AS A RESULT OF FAILURE TO INCORPORATE ALL DRAWINGS AND SPECIFICATIONS WHICH APPLY SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND/OR ENGINEER.
3. EFFORTS HAVE BEEN MADE TO INDICATE LOCATIONS OF EXISTING STRUCTURES, PIPING, UTILITIES AND TOPOGRAPHY. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION OF ALL EXISTING ITEMS BEFORE INITIATING ANY CONSTRUCTION OPERATIONS. ANY EXISTING STRUCTURE, PIPING, OR UTILITY DISTURBED OR DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND/OR ENGINEER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION ACTIVITIES WITH THE OWNER OF ANY FACILITY DISTURBED OR PLANNED TO BE DISTURBED.
4. BEFORE COMMENCING WORK, THE CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS AT THE SITE. ANY DISCREPANCIES BETWEEN THE ACTUAL MEASUREMENTS AND CONDITIONS SHOWN ON THE DRAWINGS SHALL BE DOCUMENTED BY THE CONTRACTOR IN WRITING AND SUBMITTED TO THE OWNER'S REPRESENTATIVE FOR CONSIDERATION AND DECISION BEFORE THE WORK PROCEEDS. THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE DRAWINGS AS IDENTIFIED IN THE FIELD BEFORE BEGINNING WORK.
5. ALL UTILITY LOCATIONS SHOWN ON THESE PLANS ARE APPROXIMATE AND IDENTIFIED FROM RECORD DRAWINGS. THE CONTRACTOR WILL LOCATE AND VERIFY UTILITY LOCATIONS IN THE FIELD BEFORE THE COMMENCEMENT OF WORK. THE CONTRACTOR WILL REPAIR ANY DAMAGE TO UNDERGROUND UTILITIES INCURRED DURING DEMOLITION ACTIVITIES TO THE PRE-DEMOLITION STATE. THE CONTRACTOR WILL CONTACT NC ONE CALL AT 811 FOR THE FIELD LOCATION OF UNDERGROUND UTILITIES 72 HOURS (3 BUSINESS DAYS) BEFORE ANY GROUNDBREAKING ACTIVITY.
6. CONTRACTOR SHALL CONTACT THE OWNER'S REPRESENTATIVE A MINIMUM OF 14 DAYS PRIOR TO DIGGING.
7. THE CONTRACTOR IS RESPONSIBLE FOR FOLLOWING ALL APPLICABLE OSHA REGULATIONS.
8. THE CONTRACTOR SHALL PROVIDE THE OWNER WITH A COMPLETE SET OF RED-LINED DRAWINGS UPON COMPLETION OF THE CONSTRUCTION. THE RECORD RED-LINED DRAWINGS SHALL SHOW FINAL HORIZONTAL AND VERTICAL LOCATIONS OF IMPROVEMENTS, UNDERGROUND UTILITIES, AND APPURTENANCES TO EXISTING PERMANENT IMPROVEMENTS. THEY SHALL INCLUDE ALL LINES, ACTUAL FIELD ANGLES BETWEEN LINES, SERVICE LINES AND TEE LOCATIONS, VALVE VAULTS AND VALVE BOXES, AND STUB-OUTS. THEY SHALL REFLECT ALL ALIGNMENT AND GRADE CHANGES FROM THE DESIGN DRAWINGS MADE DURING CONSTRUCTION. RECORD DRAWINGS MUST BE COMPLETED AND SUBMITTED PRIOR TO THE COMPLETION OF THE PROJECT AND MUST BE IN ACCORDANCE WITH NCDOT STANDARDS AND SPECIFICATIONS. RECORD DRAWINGS ARE TO BE STAMPED BY A LICENSED SURVEYOR.
9. ALL PROPERTY CORNERS ON THIS PROJECT SHALL BE PRESERVED, WHETHER SHOWN OR NOT. IT MAY BE NECESSARY TO PLACE OR ADJUST MONUMENT BOXES, AS REQUIRED.
10. THE CONTRACTOR SHALL VERIFY ALL HORIZONTAL AND VERTICAL BENCHMARKS SHOWN. THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED IMMEDIATELY OF ANY CONFLICTS.
11. CONTRACTOR STAGING AREAS SHALL BE LIMITED TO LIMITS OF CONSTRUCTION AS SHOWN ON THE DRAWINGS, UNLESS APPROVED BY THE OWNER'S REPRESENTATIVE. NO EQUIPMENT OR MATERIALS SHALL BE STORED OUTSIDE THE LIMITS OF CONSTRUCTION.
12. CONTRACTOR SHALL REMOVE TEMPORARY FENCING AT THE END OF CONSTRUCTION. RESTORE SITE TO A CONDITION EQUAL TO OR BETTER THAN THE EXISTING CONDITIONS.
13. SPECIFIED AND/OR PROPRIETARY PRODUCTS SHOWN HEREIN MAY BE SUBJECT TO SUBSTITUTION WITH OTHER PRODUCTS OF EQUAL OR SUPERIOR FUNCTION AS RECOMMENDED BY THE CONTRACTOR SUBJECT TO WRITTEN REVIEW AND APPROVAL OF THE OWNER'S REPRESENTATIVE. WHEN THE CONTRACTOR USES PROPRIETARY PRODUCTS, IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY WITH THE SUPPLIER/MANUFACTURER THAT THEIR PRODUCT WILL FUNCTION PER THE DESIGN OR THE GIVEN FIELD CONDITIONS. THE ENGINEER SHOULD BE NOTIFIED IMMEDIATELY IF ANY DEVIATIONS FROM EXISTING FIELD CONDITIONS EXIST WHICH MAY AFFECT PRODUCT FUNCTION.
14. NO POTABLE WELLS OR SEPTIC SYSTEMS ARE PROPOSED OR ARE KNOWN TO EXIST ON THE SITE.
15. NO SEDIMENT WILL BE ALLOWED TO MIGRATE OFFSITE. THE CONTRACTOR WILL PROVIDE A PLAN AND MAINTENANCE SCHEDULE FOR SOIL EROSION AND SEDIMENT CONTROL MEASURES. CONTRACTOR WILL PROVIDE AND MAINTAIN SOIL EROSION AND SEDIMENT CONTROL BEST MANAGEMENT PRACTICES (BMPs) DURING ALL PHASES OF DEMOLITION AND RECLAMATION. FOLLOWING THE ABOVE-MENTIONED PLAN AND SCHEDULE.
16. THE CONTRACTOR WILL INSTALL TREE PROTECTION BARRICADES BEFORE CLEARING, DEMOLITION, GRADING OR RECLAMATION BEGINS AND MAINTAIN BARRICADES UNTIL AFTER FINAL INSPECTION BY THE SITE INSPECTOR AT WHICH TIME BARRICADES WILL BE REMOVED BY THE CONTRACTOR.
17. TEMPORARY SOIL EROSION AND SEDIMENT CONTROLS (SEDIMENT TUBES OR SILT FENCES) WILL BE PLACED AT ALL INLETS AND PIPES UNTIL SOIL STABILIZATION IS COMPLETE FOLLOWING THE SPECIFICATIONS AND REQUIRED PERMITS.
18. THE CONTRACTOR WILL OBTAIN ALL NECESSARY PERMITS FOR DEMOLITION FOLLOWING SPECIFICATIONS BEFORE THE START OF THE PROJECT.
19. THE CONTRACTOR WILL PERFORM NO WORK WITHIN ANY STATE, COUNTY, MUNICIPAL PRIVATE RIGHT-OF-WAY, OR EASEMENT WITHOUT AN APPROVED ENCROACHMENT PERMIT ON-SITE.
20. ALL DEMOLITION AND RECLAMATION WILL MEET AND COMPLY WITH LOCAL, STATE, AND FEDERAL REQUIREMENTS.
21. THE CONTRACTOR WILL MEET ALL APPLICABLE FEDERAL, OSHA, STATE, & LOCAL REGULATIONS CONCERNING PROJECT SAFETY AT ALL TIMES.

DEMOLITION NOTES

1. WORK ON THIS PROJECT SHALL CONFORM TO THE LATEST EDITIONS OF THE TOWN OF CHAPEL HILL PUBLIC WORKS ENGINEERING DESIGN MANUAL, THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) ROAD AND BRIDGE SPECIFICATIONS, THE NCDOT ROAD AND BRIDGE STANDARDS, THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL HANDBOOK, AND THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL REGULATIONS. THE MOST STRINGENT SHALL GOVERN.
2. ANY DISCREPANCIES FOUND BETWEEN THESE DRAWINGS AND SPECIFICATIONS AND SITE CONDITIONS, OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS OR SPECIFICATIONS, SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER, IN WRITING, WHO SHALL PROMPTLY ADDRESS SUCH INCONSISTENCIES OR AMBIGUITIES. WORK DONE AFTER DISCOVERY, WITHOUT ATTEMPTING TO CONTACT THE DESIGN ENGINEER, WILL BE DONE AT THE CONTRACTOR'S RISK.
3. MAINTENANCE OF TRAFFIC AND TRAFFIC CONTROL IS THE SOLE RESPONSIBILITY OF THE SITE CONTRACTOR. THESE PLANS ARE TO SERVE ONLY AS A GENERAL GUIDE AND IN NO WAY LIMITS THE SITE CONTRACTOR FROM MAINTAINING TRAFFIC CONTROL IN ACCORDANCE WITH NCDOT STANDARDS AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, OR AS DIRECTED BY THE LOCAL MUNICIPALITY.
4. BEFORE STARTING ANY CONSTRUCTION OF IMPROVEMENTS WITHIN ANY NCDOT STREET OR HIGHWAY RIGHT-OF-WAY, OBTAIN ALL PERMITS AND ENCROACHMENTS. CROSS CHECK SPECIAL PROVISIONS WITH PLANS. MAINTAIN A COPY OF ALL PERMITS ON SITE. CONTACT LOCAL DISTRICT ENGINEER AT LEAST 24 HOURS BEFORE PLACING ANY CURB AND GUTTER WITHIN NCDOT RIGHT-OF-WAY.
5. SITE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL AND TO INITIATE CLEAN-UP OF THE LITTER AND REFUSE GENERATED BY THEMSELVES AND SUBCONTRACTORS. THE CLEAN-UP OF LITTER AND REFUSE SHALL BE DONE ON A REGULAR BASIS, AND SHALL INCLUDE INITIATING ACTION AND ASSUMING ANY COST IN REMEDYING THE SITUATION. ALL REFUSE AND DEBRIS SHALL BE DISPOSED OF LAWFULLY AT AN OFF-SITE LOCATION.

22. THE CONTRACTOR'S WORK ACTIVITIES WILL NOT TAKE PLACE BEYOND THE PROJECT WORK LIMITS NOTED ON THE DRAWINGS.
23. THE CONTRACTOR WILL ALLOW A MINIMUM OF 1 WEEK ADVANCED REQUEST FOR ANY IMPACT TO THE ROAD, PARKING LOT, PEDESTRIAN ACCESS, AND OR UTILITY SERVICE.
24. THE CONTRACTOR WILL NOTIFY THE OWNER/OWNER'S DESIGNEE FOLLOWING THE SPECIFICATIONS BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR WILL COORDINATE ADDITIONAL ONSITE INSPECTIONS INCLUDING BUT NOT LIMITED TO WORK WITHIN PUBLIC RIGHT OF WAYS, WORK WITHIN THE RAILROAD RIGHT OF WAYS, AND INSTALLATION OR MODIFICATIONS TO PUBLIC UTILITIES AS REQUIRED.
25. RECLAMATION OF GENERAL SITE GRADING SIDEWALKS, DRIVEWAYS, AND ROADS THAT ARE REMOVED TO COMPLETE WORK OR DISTURBED DURING REMOVAL OR CLOSURE IN PLACE OF UNDERGROUND UTILITIES OR STORMWATER PIPING WILL FOLLOW SPECIFICATIONS AND DRAWINGS.
26. ALL AREAS DISTURBED WILL BE RESTORED AS NOTED ON THESE PLANS. RESTORE LAWN AREAS WITH A MINIMUM OF 3" TOPSOIL, SEED, AND MULCH. GRAVEL AREA RESTORATION WILL MEET CURRENT NCDOT STANDARDS AND SPECIFICATIONS AND MATCH THE EXISTING AGGREGATE SECTION OR 6" OF 21AA WHICHEVER IS GREATER.
27. REPAIR OR REPLACE ANY AND ALL EXISTING VEHICULAR AND PEDESTRIAN HARDSCAPE SURFACES INCLUDING, BUT NOT LIMITED TO, SIDEWALKS, DRIVEWAYS, AND ROADS THAT ARE REMOVED TO COMPLETE WORK. RETURN YARDS, LANDSCAPING, PAVING, WALKS, PATIOS, ROADS, ETC. DISTURBED DURING THE INSTALLATION OF UNDERGROUND UTILITIES OR STORMWATER PIPING TO EQUAL OR BETTER CONDITION THAN THAT BEFORE DEMOLITION PRIOR TO THE COMPLETION OF SITE WORK.

UTILITY NOTES

1. THE CONTRACTOR WILL FIELD VERIFY ALL UTILITIES BEFORE ANY WORK.
2. THE CONTRACTOR SHALL CONTACT 811 AND PERFORM A UTILITY SURVEY FOR UTILITY LOCATES.
3. THE CONTRACTOR WILL VERIFY LOCATIONS AND ELEVATIONS OF EXISTING UTILITIES AT CROSSINGS FOR ANY NEW WORK.
4. THE CONTRACTOR WILL HAND DIG OR GPR TO LOCATE AND EXPOSE EXISTING UTILITIES AT CONNECTION POINTS AND UTILITY CROSSINGS AS APPROVED BY THE OWNER.
5. THE CONTRACTOR SHALL CONDUCT A PRE-CONSTRUCTION CONFERENCE IN CONJUNCTION WITH REPRESENTATIVES FROM APPLICABLE ENTITIES AND CONDUCT A POST-CONSTRUCTION CCTV INSPECTION OF THE SEWER INTERCEPTOR.

GRADING, PAVING, AND DRAINAGE NOTES

1. THE CONTRACTOR WILL MANAGE SURFACE AND SUBSURFACE WATER AS NECESSARY TO MEET REQUIRED EXCAVATIONS, DECONTAMINATION, DEMOLITION, AND FINAL RECLAMATION. ALL DEWATERING / WATER CONTROL WILL FOLLOW THE PROJECT SPECIFICATIONS AND DRAWINGS AND REQUIRED WATER MANAGEMENT PERMITS.
2. REMOVE ALL STRIPPINGS, DEBRIS, AND EXCESS EXCAVATED MATERIALS FROM THE SITE.
3. SEE SPECIFICATIONS FOR COMPACTION REQUIREMENTS.
4. UNIFORMLY GRADE BEHIND CURBS AND GUTTERS TO MATCH EXISTING GRADES AT PROPERTY LINES. GRADE TO ENSURE POSITIVE DRAINAGE. ALL FINISHED SURFACES WILL BE FREE FROM SURFACE IRREGULARITIES.

STORM SEWER NOTES

1. STORM DRAINAGE PIPES IN THE TOWN RIGHT-OF-WAY SHALL BE REINFORCED CONCRETE WITH A MINIMUM DIAMETER OF 15 INCHES.
2. ALL REINFORCED CONCRETE PIPE USED WITHIN TOWN RIGHT-OF-WAY SHALL BE CLASS III OR HIGHER.
3. NCDOT STANDARD INLETS SHALL BE USED FOR ALL STREETS TO BE MAINTAINED BY THE TOWN UNLESS AN ALTERNATIVE IS SPECIFICALLY REQUESTED AND APPROVED BY THE TOWN ENGINEER. WHERE STREETS ARE TO BE MAINTAINED BY THE STATE, OTHER INLETS (ACCEPTABLE TO THE STATE) MAY BE USED.
4. MINIMUM SLOPES FOR OPEN DITCHES IS 0.5%.
5. MAXIMUM SLOPES FOR CONCRETE PIPES IS 12.0%. GREATER SLOPES MAY BE APPROVED BY THE TOWN ENGINEER UPON SUBMITTAL OF APPROPRIATE DETAILED STRUCTURAL DESIGNS AND OTHER SUPPORTING DOCUMENTATION.
6. WHERE STORM DRAINAGE LINES CROSS OR PARALLEL OTHER UTILITY LINES, APPROPRIATE CLEARANCES SHALL BE PROVIDED ACCORDING TO THE TOWN.

URBAN FORESTRY NOTES

1. CONTRACTOR SHALL INSTALL REQUIRED TREE PROTECTION FENCE AS SHOWN ON THE APPROVED PLAN AND HAVE IT INSPECTED BY TOWN STAFF BEFORE PROCEEDING WITH ADDITIONAL WORK. DISTURBANCE WITHIN THE REQUIRED TREE PROTECTION AREAS WILL RESULT IN THE ISSUANCE OF A STOP WORK ORDER AND MAY REQUIRE MITIGATION INCLUDING BUT NOT LIMITED TO MONETARY PENALTIES, PRUNING, TREE REMOVAL AND REPLANTING AS DETERMINED BY THE TOWN.

ORANGE COUNTY SOLID WASTE NOTES

1. ALL EXISTING STRUCTURES 500 SQUARE FEET AND LARGER SHALL BE ASSESSED PRIOR TO THE ISSUANCE OF A DEMOLITION PERMIT TO ENSURE COMPLIANCE WITH THE COUNTY'S REGULATED RECYCLABLE MATERIALS ORDINANCE (RRMO) AND TO ASSESS THE POTENTIAL FOR DECONSTRUCTION AND/OR THE REUSE OF SALVAGEABLE MATERIALS. CONTACT THE ORANGE COUNTY SW ENFORCEMENT OFFICER AT 919-968-2788 TO ARRANGE FOR THE ASSESSMENT.
2. PURSUANT TO THE COUNTY'S RRMO, CLEAN WOOD WASTE, SCRAP METAL, AND CORRUGATED CARDBOARD PRESENT IN CONSTRUCTION OR DEMOLITION WASTE MUST BE RECYCLED.
3. PURSUANT TO THE COUNTY'S RRMO, ALL HAULERS OF MIXED CONSTRUCTION AND DEMOLITION WASTE WHICH INCLUDES ANY REGULATED RECYCLABLE MATERIALS SHALL BE LICENSED BY ORANGE COUNTY.
4. PRIOR TO ANY DEMOLITION OR CONSTRUCTION ACTIVITY ON THE SITE, THE APPLICANT SHALL HOLD A PRE-DEMOLITION/PRE-CONSTRUCTION CONFERENCE WITH SOLID WASTE STAFF. THIS MAY BE THE SAME PRE-CONSTRUCTION MEETING HELD WITH OTHER DEVELOPMENT/ENFORCEMENT OFFICIALS.
5. THE PRESENCE IF ANY ASBESTOS CONTAINING MATERIALS (ACM) AND/OR OTHER HAZARDOUS MATERIALS SHALL BE HANDLED IN ACCORDANCE WITH ANY AND ALL LOCAL, STATE, AND FEDERAL REGULATIONS AND GUIDELINES.

CHAPEL HILL NOTES

1. IN COMPLIANCE WITH THE NOISE ORDINANCE, TOWN CODE SECTION 11-40, CONSTRUCTION OPERATIONS FOR WHICH BUILDING PERMITS HAVE BEEN ISSUED, BE LIMITED TO 7:00 A.M. TO 9:00 P.M. ON WEEKDAYS AND 8:00 A.M. TO 9:00 P.M. ON WEEKENDS.

STANDARD UTILITY NOTES

UTILITY SEPARATION REQUIREMENTS:

- A) A DISTANCE OF 100' SHALL BE MAINTAINED BETWEEN SANITARY SEWER & ANY PRIVATE OR PUBLIC WATER SUPPLY SOURCE SUCH AS AN IMPOUNDED RESERVOIR USED AS A SOURCE OF DRINKING WATER. IF ADEQUATE LATERAL SEPARATION CANNOT BE ACHIEVED, FERROUS SANITARY SEWER PIPE SHALL BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS. HOWEVER, THE MINIMUM SEPARATION SHALL NOT BE LESS THAN 25' FROM A PRIVATE WELL OR 50' FROM A PUBLIC WELL.
- B) WHEN INSTALLING WATER &/OR SEWER MAINS, THE HORIZONTAL SEPARATION BETWEEN UTILITIES SHALL BE 10'. IF THIS SEPARATION CANNOT BE MAINTAINED DUE TO EXISTING CONDITIONS, THE VARIATION ALLOWED IS THE WATER MAIN IN A SEPARATE TRENCH WITH THE ELEVATION OF THE WATER MAIN AT LEAST 18" ABOVE THE TOP OF THE SEWER & MUST BE APPROVED BY THE TOWN. ALL DISTANCES ARE MEASURED FROM OUTSIDE DIAMETER TO OUTSIDE DIAMETER.
- C) WHERE IT IS IMPOSSIBLE TO OBTAIN PROPER SEPARATION, OR ANYTIME A SANITARY SEWER PASSES OVER A WATER MAIN, DIP MATERIALS OR STEEL ENCASEMENT EXTENDED 10" ON EACH SIDE OF CROSSING MUST BE SPECIFIED & INSTALLED TO WATERLINE SPECIFICATIONS.
- D) 5.0' MINIMUM HORIZONTAL SEPARATION IS REQUIRED BETWEEN ALL SANITARY SEWER & STORM SEWER FACILITIES, UNLESS DIP MATERIAL IS SPECIFIED FOR SANITARY SEWER.
- E) MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL WATER MAIN & RCP STORM DRAIN CROSSINGS; MAINTAIN 18" MIN. VERTICAL SEPARATION AT ALL SANITARY SEWER & RCP STORM DRAIN CROSSINGS. WHERE ADEQUATE SEPARATIONS CANNOT BE ACHIEVED, SPECIFY DIP MATERIALS & A CONCRETE CRADLE HAVING 6" MIN. CLEARANCE.
- F) ALL OTHER UNDERGROUND UTILITIES SHALL CROSS WATER & SEWER FACILITIES WITH 18" MIN. VERTICAL SEPARATION REQUIRED.
3. ANY NECESSARY FIELD REVISIONS ARE SUBJECT TO REVIEW & APPROVAL OF AN AMENDED PLAN &/OR PROFILE BY THE TOWN PRIOR TO CONSTRUCTION.
4. DEVELOPER SHALL PROVIDE 30 DAYS ADVANCE WRITTEN NOTICE TO OWNER FOR ANY WORK REQUIRED WITHIN AN EXISTING TOWN UTILITY EASEMENT TRAVERSING PRIVATE PROPERTY.
5. CONTRACTOR SHALL MAINTAIN CONTINUOUS WATER & SEWER SERVICE TO EXISTING RESIDENCES & BUSINESSES THROUGHOUT CONSTRUCTION OF PROJECT. ANY NECESSARY SERVICE INTERRUPTIONS SHALL BE PRECEDED BY A 24-HOUR ADVANCE NOTICE TO THE TOWN.
6. SEWER BYPASS PUMPING – A BYPASS PLAN SEALED BY AN NC PROFESSIONAL ENGINEER SHALL BE PROVIDED TO THE TOWN PRIOR TO PUMPING OPERATIONS. 7. 3.0' MINIMUM COVER IS REQUIRED ON ALL WATER MAINS & SEWER FORCE MAINS. 4.0' MINIMUM COVER IS REQUIRED ON ALL REUSE MAINS.
8. IT IS THE DEVELOPER'S RESPONSIBILITY TO ABANDON OR REMOVE EXISTING WATER & SEWER SERVICES NOT BEING USED IN REDEVELOPMENT OF A SITE UNLESS OTHERWISE DIRECTED BY THE TOWN. THIS INCLUDES ABANDONING TAP AT MAIN & REMOVAL OF SERVICE FROM ROW OR EASEMENT.
9. INSTALL ¾" COPPER* WATER SERVICES WITH METERS LOCATED AT ROW OR WITHIN A 2'X2' WATERLINE EASEMENT IMMEDIATELY ADJACENT. NOTE: IT IS THE APPLICANT'S RESPONSIBILITY TO PROPERLY SIZE THE WATER SERVICE FOR EACH CONNECTION TO PROVIDE ADEQUATE FLOW & PRESSURE.
10. INSTALL 4" PVC* SEWER SERVICES @ 1.0% MINIMUM GRADE WITH CLEANOUTS LOCATED AT ROW OR EASEMENT LINE & SPACED EVERY 75 LINEAR FEET MAXIMUM.
11. PRESSURE REDUCING VALVES ARE REQUIRED ON ALL WATER SERVICES EXCEEDING 80 PSI. BACKWATER VALVES ARE REQUIRED ON ALL SANITARY SEWER SERVICES HAVING BUILDING DRAINS LOWER THAN 1.0' ABOVE THE NEXT UPSTREAM MANHOLE.
12. ALL ENVIRONMENTAL PERMITS APPLICABLE TO THE PROJECT MUST BE OBTAINED FROM NCDOW, USACE &/OR FEMA FOR ANY RIPARIAN BUFFER, WETLAND &/OR FLOODPLAIN IMPACTS (RESPECTIVELY) PRIOR TO CONSTRUCTION.
13. NCDOT / RAILROAD ENCROACHMENT AGREEMENTS ARE REQUIRED FOR ANY UTILITY WORK (INCLUDING MAIN EXTENSIONS & SERVICE TAPS) WITHIN STATE OR RAILROAD ROW PRIOR TO CONSTRUCTION.
14. GREASE INTERCEPTOR / OIL WATER SEPARATOR SIZING CALCULATIONS & INSTALLATION SPECIFICATIONS SHALL BE APPROVED BY THE TOWN PRIOR TO ISSUANCE OF A UC AND/OR BUILDING PERMIT.

EROSION AND SEDIMENT CONTROL NOTES

EROSION CONTROL NOTES:

1. CONTRACTOR MUST MAINTAIN ALL EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT UNLESS OTHERWISE INDICATED ON THE PLANS OR DIRECTED BY THE INSPECTOR.
2. CONTRACTOR MUST CONSTRUCT DIVERSION DITCHES WHEN NECESSARY TO ENSURE ALL SEDIMENT IS DIRECTED INTO EROSION CONTROL MEASURES.
3. CUT AND FILL SLOPES SHALL BE STABILIZED WITHIN 14 DAYS OF ANY PHASE OF GRADING.
4. ALL ROADWAYS ADJACENT TO THIS PROJECT MUST REMAIN CLEAN AT ALL TIMES OR A WASH STATION MAY BE REQUIRED.
5. INSTALL WATTLES AROUND BASINS AND FOREBAYS ONCE CONSTRUCTED, TO REMAIN IN PLACE UNTIL SURROUNDING AREA HAS STABILIZED WITH VEGETATION.
6. THE SILT FENCE SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITEWORK IS COMPLETED AND THE FINAL SITE INSPECTION IS SCHEDULED.

MAINTENANCE PLAN:

1. ALL EROSION AND SEDIMENTATION CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY RUNOFF PRODUCING RAINFALL EVENT BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ALL NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
2. SEDIMENT WILL BE REMOVED FROM BEHIND THE SILT FENCE WHEN IT BECOMES 6-INCHES DEEP AT THE FENCE. THE SILT FENCE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
3. INLET PROTECTION DEVICES MUST BE INSPECTED AFTER EVERY RAINFALL EVENT. DAMAGED SILT FENCE MUST BE REPLACED AND GRAVEL MUST BE CLEANED OR REPLACED WHEN INLET NO LONGER DRAINS PROPERLY.
4. ALL TEMPORARY EROSION CONTROL MEASURES ARE TO BE REMOVED ONCE THE OWNER AGENCY ACCEPTS THE CONSTRUCTION AND VEGETATION HAS BEEN FULLY ESTABLISHED.

TETRA TECH
ENGINEERING, PC

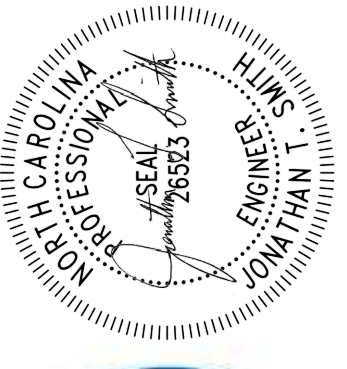


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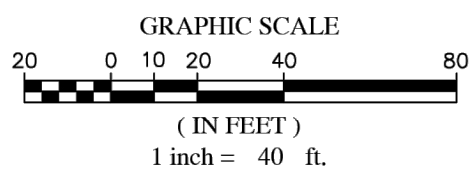
Legion Pond
ISSUED FOR PERMITTING

GENERAL NOTES

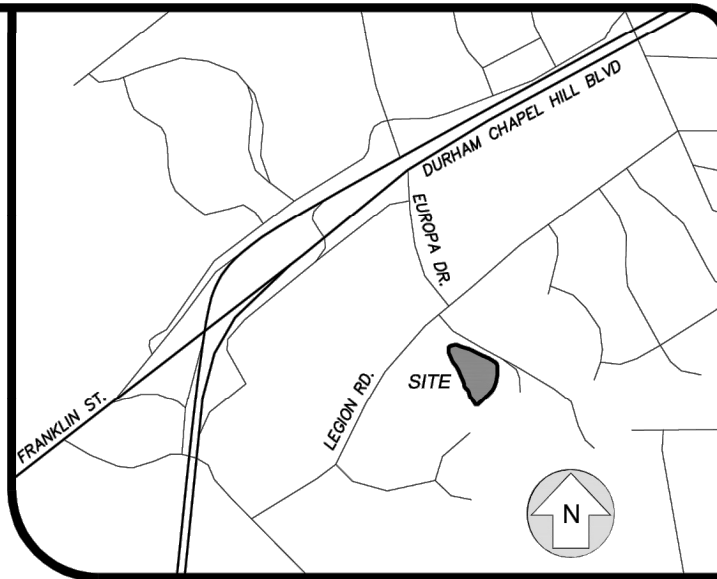
Project No.: T43655
Designed By: DO
Drawn By: WH
Checked By: DS

Sheet
G101

NOTE "L"
SITE VEGETATION NOT SHOWN.



A circular professional seal for William C. McWhorter, Jr. The outer ring contains the text "NORTH CAROLINA" at the top and "WILLIAM C. MCWHORTER, JR." at the bottom. Inside this ring, the word "PROFESSIONAL" is at the top and "LAND SURVEYOR" is at the bottom. The center of the seal features the word "SEAL" above the license number "L-3248".



VICINITY MAP
NOT TO SCALE

**NAD 83/11
NC GRID NORTH**

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DEMOLITION PLAN

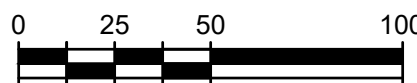
SCALE: 1"=50'

LEGEND

- 1.00 — 1.00 — 1.00 — LIMIT OF DISTURBANCE
- - - 300 - - - EXISTING CONTOUR

NOTES

- CONTRACTOR TO CLEAR AND GRUB ALL EXISTING TREES AND SHRUBS WITHIN LIMIT OF DISTURBANCE. ALL TREE AND SHRUB ROOTS GREATER THAN 1/2" TO BE REMOVED.
- CONTRACTOR TO COORDINATE WITH THE TOWN OF CHAPEL HILL REGARDING THE DEWATERING OF THE EXISTING POND AND SHALL PREPARE A WRITTEN PLAN FOR DEWATERING AND RELOCATING AQUATIC SPECIES WITHIN THE POND ENVIRONMENT.



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X	8/26/26	REVISED	JS

Legion Pond
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DEMOLITION PLAN

Project No.: T43655
Designed By: DO
Drawn By: WH
Checked By: DS

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DP101

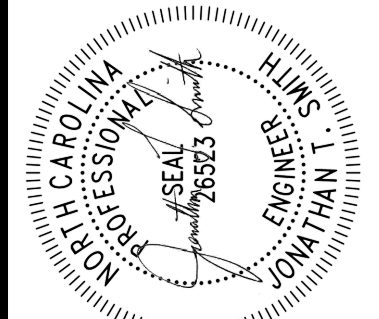
4 of 15 Sheets
Bar Measures 1 inch

TETRA TECH
ENGINEERING, PC

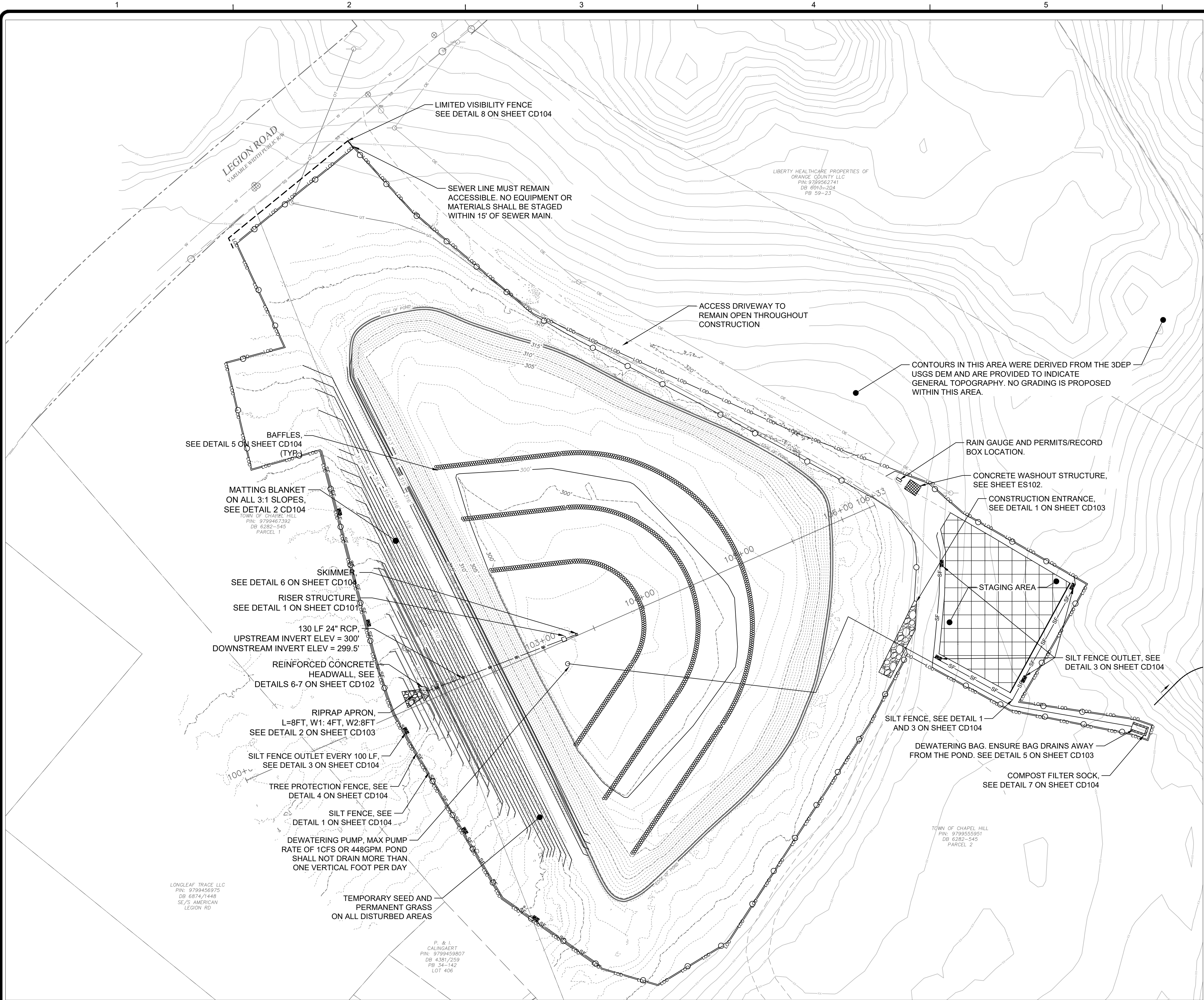
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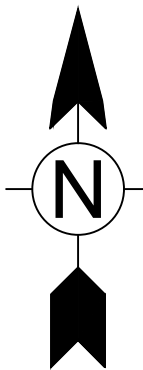


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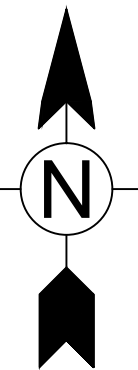
EROSION AND SEDIMENT CONTROL PLAN

SCALE: 1"=50'



COMPLETE PARCEL VIEW

SCALE: 1/16"=1'



LEGEND

---	---	LIMIT OF DISTURBANCE
---	---	300
---	---	300
---	---	EXISTING CONTOUR
---	---	XX
---	---	EXISTING CONTOUR (USGS DEM)
---	---	SF
---	---	SILT FENCE
---	---	---
---	---	TREE PROTECTION FENCE
---	---	SD
---	---	PROPOSED STORM SEWER

NOTES

- CONTRACTOR SHALL MAINTAIN PUBLIC ACCESS TO THE LEGION BUILDING DURING ALL PHASES OF CONSTRUCTION.
- CONTOURS FROM THE UNITED STATES GEOLOGICAL SURVEY (USGS) 3D ELEVATION PROGRAM (3DEP) PROVIDE EXISTING CONDITION GRADE BEYOND SURVEY LIMITS FOR DE-WATERING PLACEMENT.
- APPROVAL OF THIS EROSION AND SEDIMENTATION CONTROL PLAN DOES NOT AUTHORIZE IMPACTS TO WETLANDS, COASTAL MARSH, STREAMS OR OTHER WATERS OF THE STATE OR UNITED STATES OR SUPERSEDE ANY OTHER PERMITTING REQUIREMENT OF ANY FEDERAL, STATE OR LOCAL AGENCY.
- THE DEVELOPER IS RESPONSIBLE FOR THE CONTROL OF SEDIMENT ON-SITE. IF THE APPROVED EROSION AND SEDIMENTATION CONTROL MEASURES PROVE INSUFFICIENT, THE DEVELOPER MUST TAKE THOSE ADDITIONAL STEPS NECESSARY TO STOP SEDIMENT FROM LEAVING THIS SITE.
- CONCRETE WASHOUT FACILITIES SHOULD BE INSPECTED DAILY AND AFTER HEAVY RAINS TO CHECK FOR LEAKS, IDENTIFY ANY DAMAGE CAUSED BY CONSTRUCTION ACTIVITIES, AND DETERMINE WHETHER THEY ARE FILLED TO OVER 75 PERCENT CAPACITY. WHEN THE WASHOUT CONTAINER IS FILLED TO OVER 75 PERCENT OF ITS CAPACITY, THE WASH WATER SHOULD BE VACUUMED OFF OR ALLOWED TO EVAPORATE TO AVOID OVERFLOWS. WHEN THE REMAINING CEMENTITIOUS SOLIDS HAVE HARDENED, THEY SHOULD BE REMOVED AND RECYCLED. DAMAGES TO THE CONTAINER SHOULD BE REPAIRED PROMPTLY. BEFORE HEAVY RAINS, THE WASHOUT CONTAINER'S LIQUID LEVEL SHOULD BE LOWERED, OR THE CONTAINER SHOULD BE COVERED TO AVOID AN OVERFLOW DURING THE RAIN EVENT. SEE SHEET ES102 FOR ADDITIONAL CONCRETE WASHOUT DETAILS.



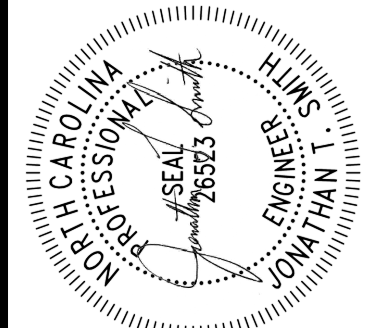
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Legion Pond
ISSUED FOR PERMITTING
EROSION AND SEDIMENT
CONTROL PLAN

Project No.:	T43655
Designed By:	DO
Drawn By:	WH
Checked By:	DS

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AUGUST 26, 2026



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GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

SECTION E: GROUND STABILIZATION

Required Ground Stabilization Timeframes		
Site Area Description	Stabilize within this many calendar days after ceasing land disturbance	Timeframe variations
(a) Perimeter dikes, swales, ditches, and perimeter slopes	7	None
(b) High Quality Water (HQW) Zones	7	None
(c) Slopes steeper than 3:1	7	If slopes are 10' or less in length and are not steeper than 2:1, 14 days are allowed
(d) Slopes 3:1 to 4:1	14	-7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
(e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope

Note: After the permanent cessation of construction activities, any areas with temporary ground stabilization shall be converted to permanent ground stabilization as soon as practicable but in no case longer than 90 calendar days after the last land disturbing activity. Temporary ground stabilization shall be maintained in a manner to render the surface stable against accelerated erosion until permanent ground stabilization is achieved.

GROUND STABILIZATION SPECIFICATION

Stabilize the ground sufficiently so that rain will not dislodge the soil. Use one of the techniques in the table below:

Temporary Stabilization	Permanent Stabilization
- Temporary grass seed covered with straw or other mulches and tackifiers - Hydroseeding - Rolled erosion control products with or without temporary grass seed - Appropriately applied straw or other mulch - Plastic sheeting	- Permanent grass seed covered with straw or other mulches and tackifiers - Geotextile fabrics such as permanent soil reinforcement matting - Hydroseeding - Shrubs or other permanent plantings covered with mulch - Uniform and evenly distributed ground cover sufficient to restrain erosion - Structural methods such as concrete, asphalt or retaining walls - Rolled erosion control products with grass seed

POLYACRYLAMIDES (PAMS) AND FLOCCULANTS

- Select flocculants that are appropriate for the soils being exposed during construction, selecting from the *NC DWR List of Approved PAMS/Flocculants*.
- Apply flocculants at or before the inlets to Erosion and Sediment Control Measures.
- Apply flocculants at the concentrations specified in the *NC DWR List of Approved PAMS/Flocculants* and in accordance with the manufacturer's instructions.
- Provide ponding area for containment of treated Stormwater before discharging offsite.
- Store flocculants in leak-proof containers that are kept under storm-resistant cover or surrounded by secondary containment structures.

EQUIPMENT AND VEHICLE MAINTENANCE

- Maintain vehicles and equipment to prevent discharge of fluids.
- Provide drip pans under any stored equipment.
- Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
- Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
- Remove leaking vehicles and construction equipment from service until the problem has been corrected.
- Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

LITTER, BUILDING MATERIAL AND LAND CLEARING WASTE

- Never bury or burn waste. Place litter and debris in approved waste containers.
- Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
- Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland.
- Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
- Anchor all lightweight items in waste containers during times of high winds.
- Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
- Dispose waste off-site at an approved disposal facility.
- On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

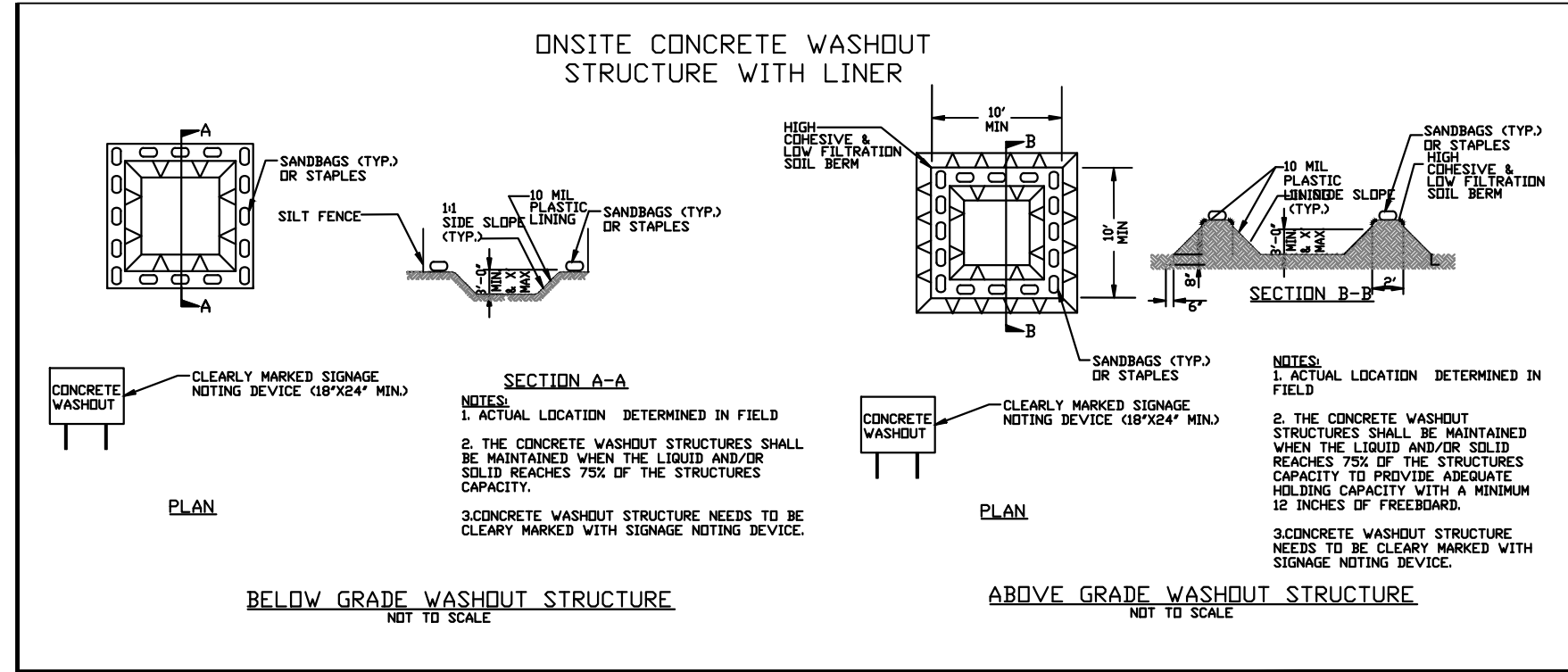
- Do not dump paint and other liquid waste into storm drains, streams or wetlands.
- Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
- Contain liquid wastes in a controlled area.
- Containment must be labeled, sized and placed appropriately for the needs of site.
- Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

PORTABLE TOILETS

- Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.
- Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
- Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

EARTHEN STOCKPILE MANAGEMENT

- Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably available.
- Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
- Provide stable stone access point when feasible.
- Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



CONCRETE WASHOUTS

- Do not discharge concrete or cement slurry from the site.
- Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
- Manage washout from mortar mixers in accordance with the above item and in addition place the mixer and associated materials on impervious barrier and within lot perimeter silt fence.
- Install temporary concrete washouts per local requirements, where applicable. If an alternate method or product is to be used, contact your approval authority for review and approval. If local standard details are not available, use one of the two types of temporary concrete washouts provided on this detail.
- Do not use concrete washouts for dewatering or storing defective curb or sidewalk sections. Stormwater accumulated within the washout may not be pumped into or discharged to the storm drain system or receiving surface waters. Liquid waste must be pumped out and removed from project.
- Locate washouts at least 50 feet from storm drain inlets and surface waters unless it can be shown that no other alternatives are reasonably available. At a minimum, install protection of storm drain inlet(s) closest to the washout which could receive spills or overflow.
- Locate washouts in an easily accessible area, on level ground and install a stone entrance pad in front of the washout. Additional controls may be required by the approving authority.
- Install at least one sign directing concrete trucks to the washout within the project limits. Post signage on the washout itself to identify this location.
- Remove leavings from the washout when at approximately 75% capacity to limit overflow events. Replace the tarp, sand bags or other temporary structural components when no longer functional. When utilizing alternative or proprietary products, follow manufacturer's instructions.
- At the completion of the concrete work, remove remaining leavings and dispose of in an approved disposal facility. Fill pit, if applicable, and stabilize any disturbance caused by removal of washout.

HERBICIDES, PESTICIDES AND RODENTICIDES

- Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
- Store herbicides, pesticides and rodenticides in their original containers with the label, which lists directions for use, ingredients and first aid steps in case of accidental poisoning.
- Do not store herbicides, pesticides and rodenticides in areas where flooding is possible or where they may spill or leak into wells, stormwater drains, ground water or surface water. If a spill occurs, clean area immediately.
- Do not stockpile these materials onsite.

HAZARDOUS AND TOXIC WASTE

- Create designated hazardous waste collection areas on-site.
- Place hazardous waste containers under cover or in secondary containment.
- Do not store hazardous chemicals, drums or bagged materials directly on the ground.

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PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working order	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those un-attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC Measures	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the measures inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Indication of whether the measures were operating properly, 5. Description of maintenance needs for the measure, 6. Description, evidence, and date of corrective actions taken.
(3) Stormwater discharge outfalls (SDOs)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	1. Identification of the discharge outfalls inspected, 2. Date and time of the inspection, 3. Name of the person performing the inspection, 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration, 5. Indication of visible sediment leaving the site, 6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of site	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site limits, 2. Description, evidence, and date of corrective actions taken, and 3. An explanation as to the actions taken to control future releases.
(5) Streams or wetlands onsite or offsite (where accessible)	At least once per 7 calendar days and within 24 hours of a rain event ≥ 1.0 inch in 24 hours	If the stream or wetland has increased visible sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and 2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit.
(6) Ground stabilization measures	After each phase of grading	1. The phase of grading (installation of perimeter E&SC measures, clearing and grubbing, installation of storm drainage facilities, completion of all land-disturbing activity, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been provided within the required timeframe or an assurance that they will be provided as soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

PART II, SECTION G, ITEM (4)
DRAW DOWN OF SEDIMENT BASINS FOR MAINTENANCE OR CLOSE OUT

Sediment basins and traps that receive runoff from drainage areas of one acre or more shall use outlet structures that withdraw water from the surface when these devices need to be drawn down for maintenance or close out unless this is infeasible. The circumstances in which it is not feasible to withdraw water from the surface shall be rare (for example, times with extended cold weather). Non-surface withdrawals from sediment basins shall be allowed only when all of the following criteria have been met:

- The E&SC plan authority has been provided with documentation of the non-surface withdrawal and the specific time periods or conditions in which it will occur. The non-surface withdrawal shall not commence until the E&SC plan authority has approved these items,
- The non-surface withdrawal has been reported as an anticipated bypass in accordance with Part III, Section C, Item (2)(c) and (d) of this permit,
- Dewatering discharges are treated with controls to minimize discharges of pollutants from stormwater that is removed from the sediment basin. Examples of appropriate controls include properly sited, designed and maintained dewatering tanks, weir tanks, and filtration systems,
- Vegetated, upland areas of the sites or a properly designed stone pad is used to the extent feasible at the outlet of the dewatering treatment devices described in Item (c) above,
- Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
- Sediment removed from the dewatering treatment devices described in Item (c) above is disposed of in a manner that does not cause deposition of sediment into waters of the United States.

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be kept on site and available for inspection at all times during normal business hours.

Item to Document	Documentation Requirements
(a) Each E&SC measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC plan.	Initial and date each E&SC measure on a copy of the approved E&SC plan or complete, date and sign an inspection report that lists each E&SC measure shown on the approved E&SC plan. This documentation is required upon the initial installation of the E&SC measures or if the E&SC measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC plan.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC measures.	Initial and date a copy of the approved E&SC plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

2. Additional Documentation to be Kept on Site

In addition to the E&SC plan documents above, the following items shall be kept on the site and available for inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical:

- This General Permit as well as the Certificate of Coverage, after it is received.
- Records of inspections made during the previous twelve months. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

3. Documentation to be Retained for Three Years

All data used to complete the e-NOI and all inspection records shall be maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

- Visible sediment deposition in a stream or wetland.
- Oil spills if:
 - They are 25 gallons or more,
 - They are less than 25 gallons but cannot be cleaned up within 24 hours,
 - They cause sheen on surface waters (regardless of volume), or
 - They are within 100 feet of surface waters (regardless of volume).
- Releases of hazardous substances in excess of reportable quantities under Section 311 of the Clean Water Act (Ref: 40 CFR 110.3 and 40 CFR 117.3) or Section 102 of CERCLA (Ref: 40 CFR 302.4) or G.S. 143-215.85.
- Anticipated bypasses and unanticipated bypasses.
- Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department's Environmental Emergency Center personnel at (800) 858-0368.

Occurrence	Reporting Timeframes (After Discovery) and Other Requirements
(a) Visible sediment deposition in a stream or wetland	Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the sediment and actions taken to address the cause of the deposition. Division staff may waive the requirement for a written report on a case-by-case basis. - If the stream is named on the NC 303(d) list as impaired for sediment-related causes, the permittee may be required to perform additional monitoring, inspections or apply more stringent practices if staff determine that additional requirements are needed to assure compliance with the federal or state impaired-waters conditions.
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	Within 24 hours, an oral or electronic notification. The notification shall include information about the date, time, nature, volume and location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	A report at least ten days before the date of the bypass, if possible. The report shall include an evaluation of the anticipated quality and effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that includes an evaluation of the quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(l)(7)]	Within 24 hours, an oral or electronic notification. Within 7 calendar days, a report that contains a description of the noncompliance, and its causes; the period of noncompliance, including exact dates and times, and if the noncompliance has not been corrected, the anticipated time noncompliance is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. [40 CFR 122.41(l)(6). - Division staff may waive the requirement for a written report on a case-by-case basis.

NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING

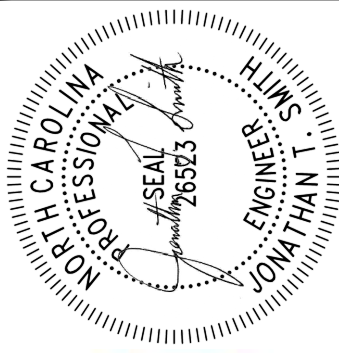
EFFECTIVE: 04/01/19



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Research Triangle Park, NC 27709
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RELEASED FOR BIDDING

AUGUST 26, 2026



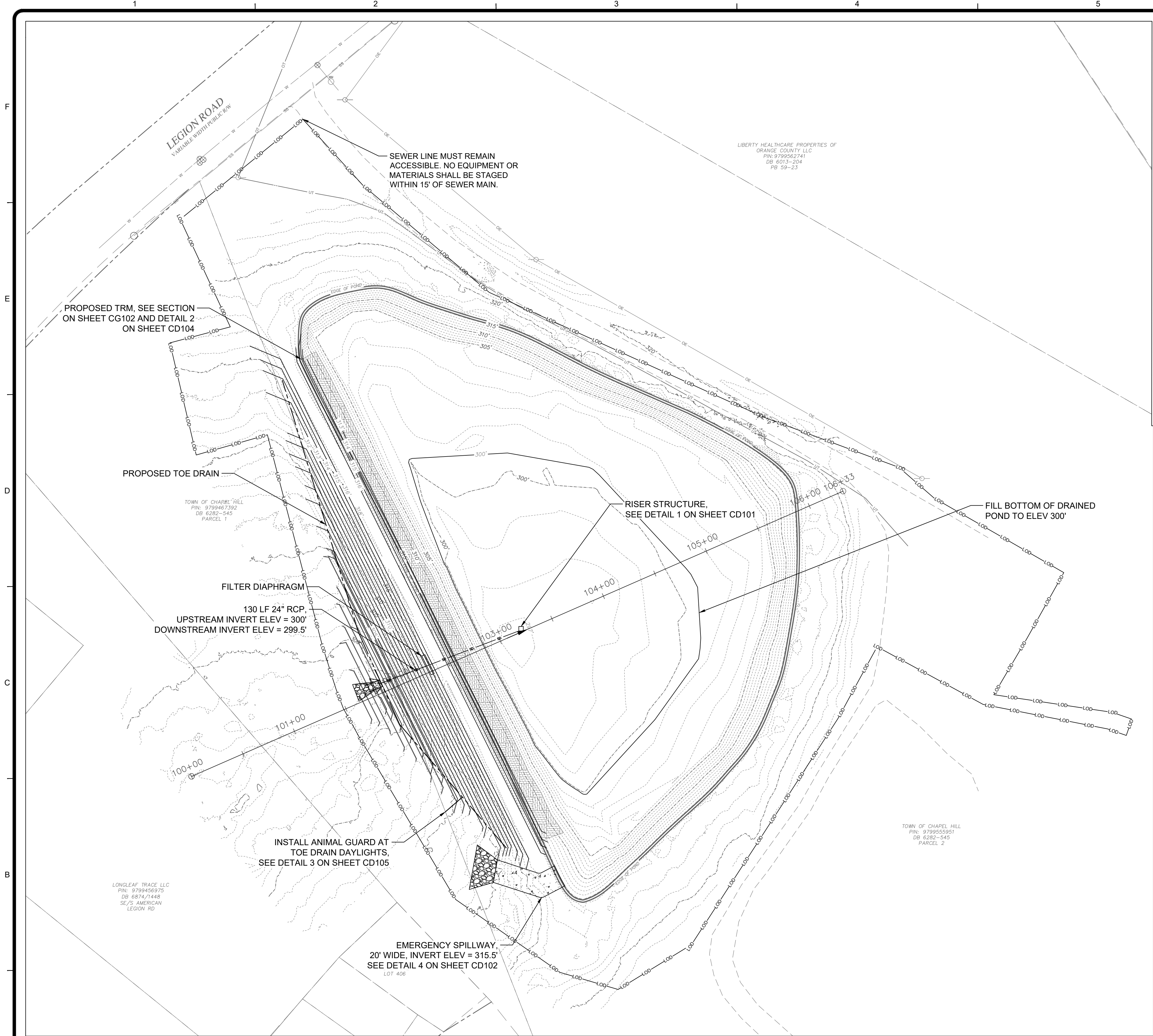
MARK	DATE	DESCRIPTION	BY
X	8/26/26	REVISED	JS

Legion Pond
ISSUED FOR PERMITTING
INSPECTION, RECORDKEEPING, AND REPORTING

Project No.:	T43655
Designed By:	DO
Drawn By:	WH
Checked By:	DS

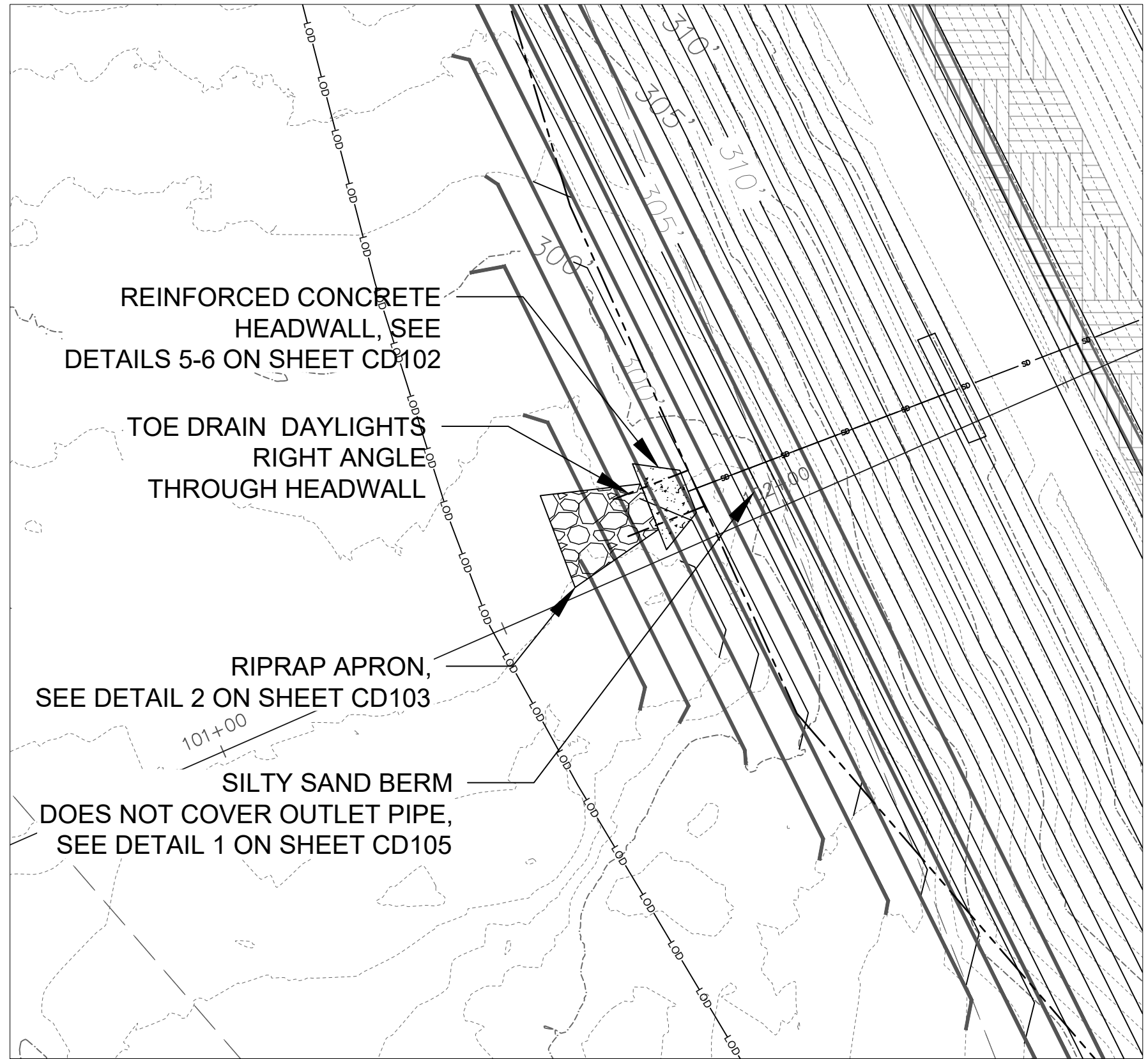
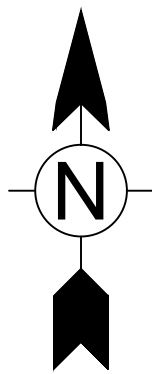
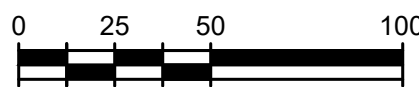
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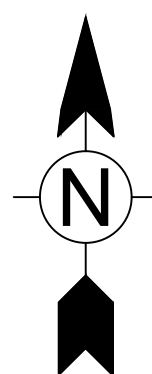
GRADING PLAN

SCALE: 1"=50'



ZOOMED-IN PLAN VIEW

SCALE: 1"=20'



LEGEND

— 0.00 — 0.00 —	LIMIT OF DISTURBANCE
— 300 —	PROPOSED CONTOUR
- - - 300 - - -	EXISTING CONTOUR
— SD —	PROPOSED STORM SEWER
— - - —	PROPOSED TOE DRAIN

IMPERVIOUS SURFACE

EXISTING:

WATER SURFACE: 1.59ac

IMPERVIOUS: 3.12ac

TOTAL: 4.71ac

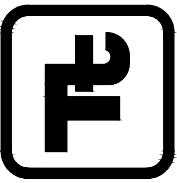
PROPOSED:

WATER SURFACE: 0.00ac

IMPERVIOUS: 3.12ac

TOTAL: 3.12ac

TETRA TECH
ENGINEERING, PC

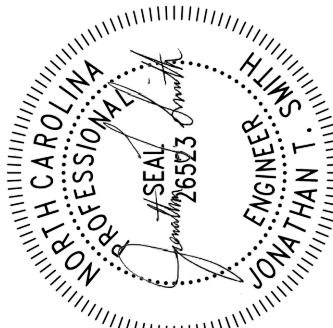


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RELEASED FOR BIDDING

AUGUST 26, 2026



BY	DATE	DESCRIPTION
JS	8/26/26	REVISED

Legion Pond
ISSUED FOR PERMITTING

GRADING PLAN

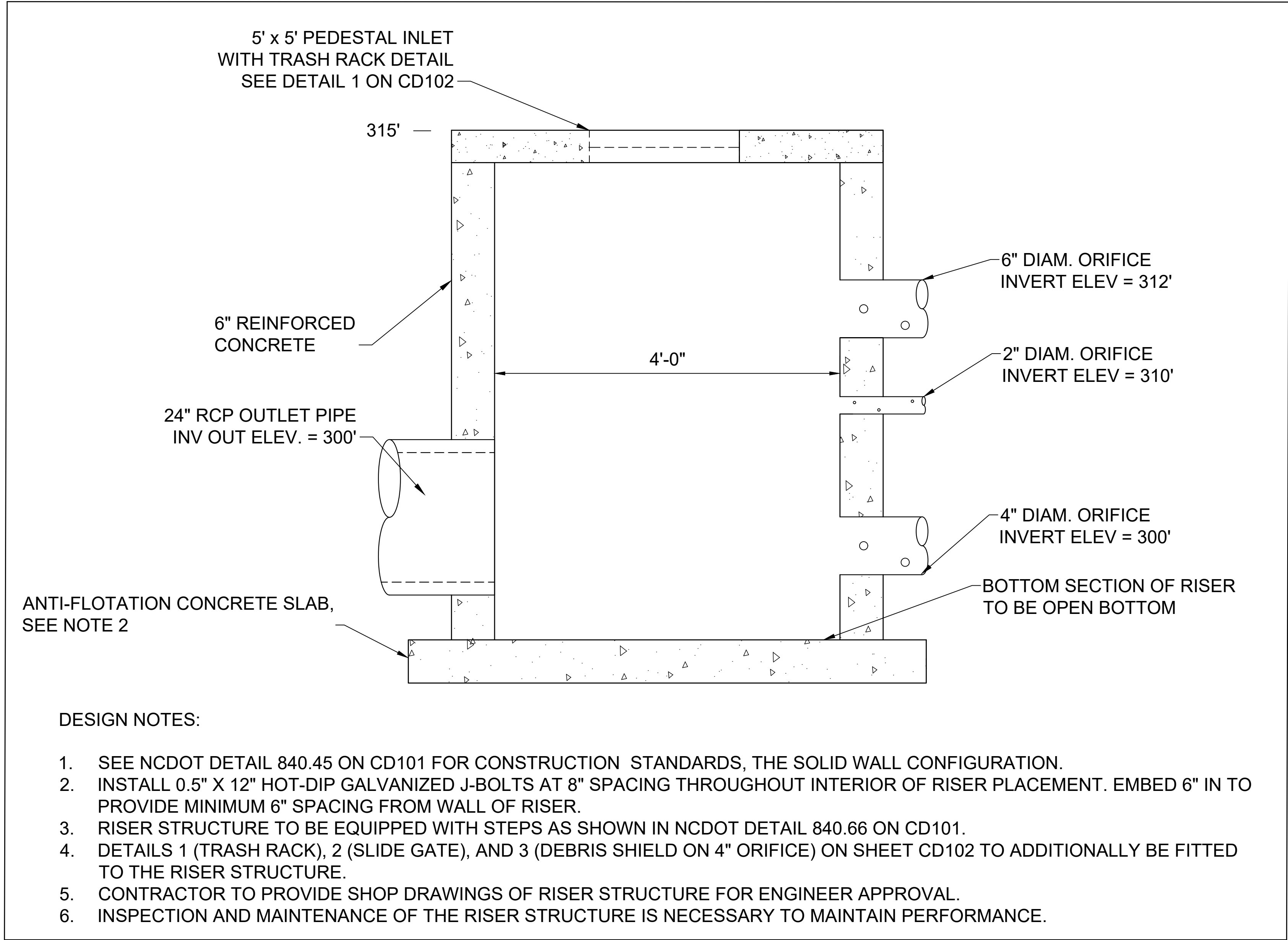
Project No.:	T43655
Designed By:	DO
Drawn By:	WH
Checked By:	DS

Sheet **CG101**

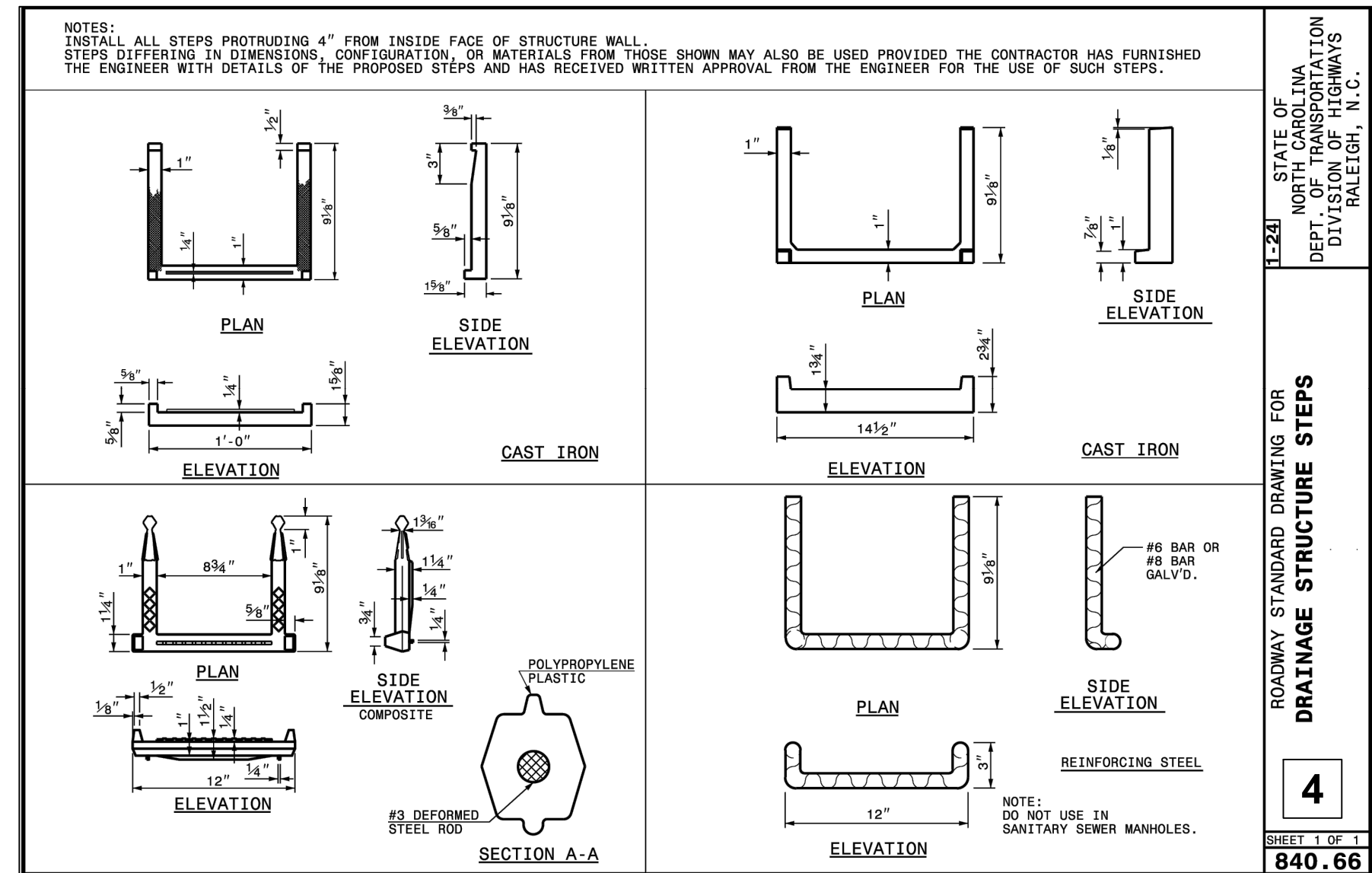
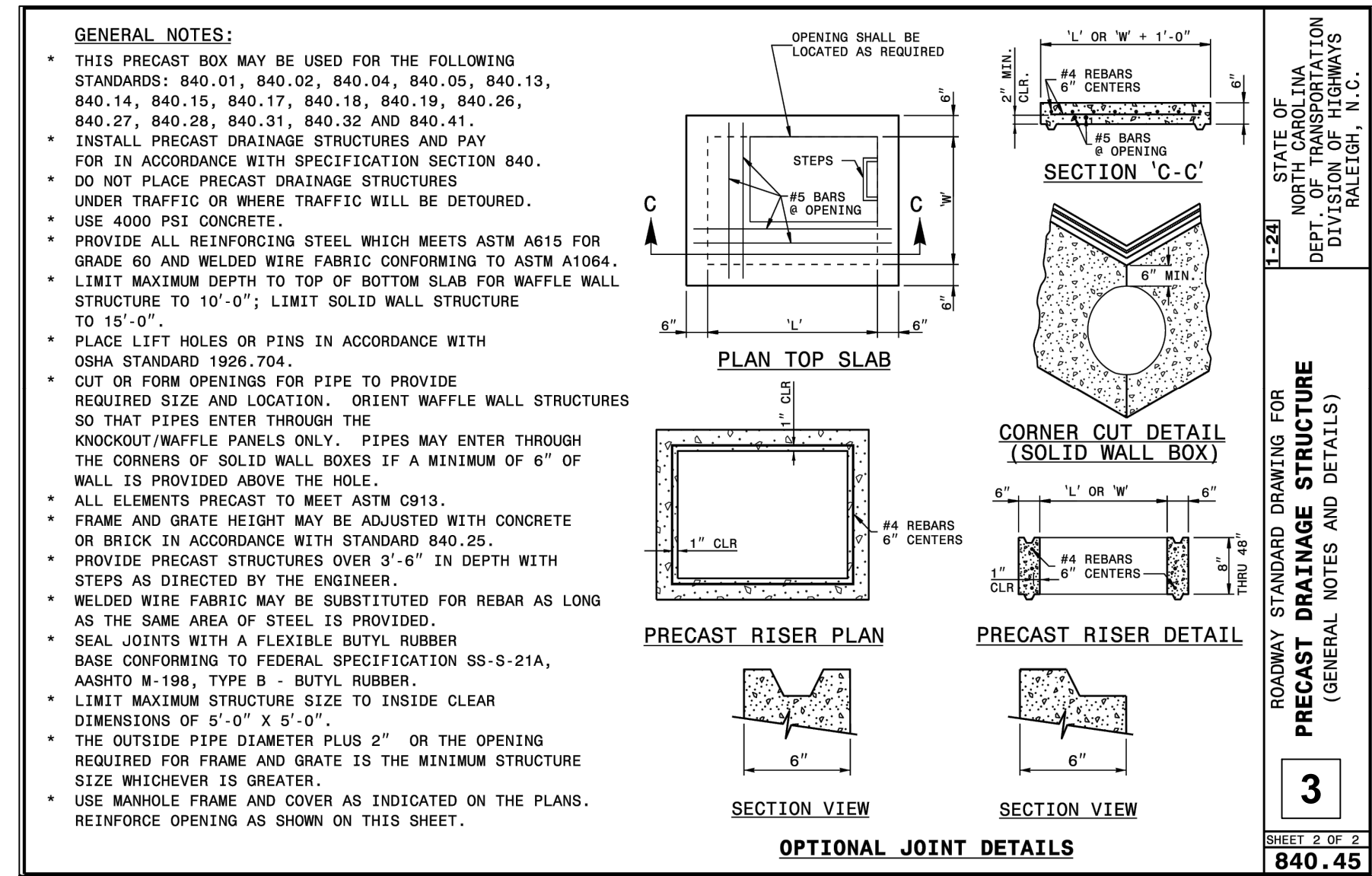
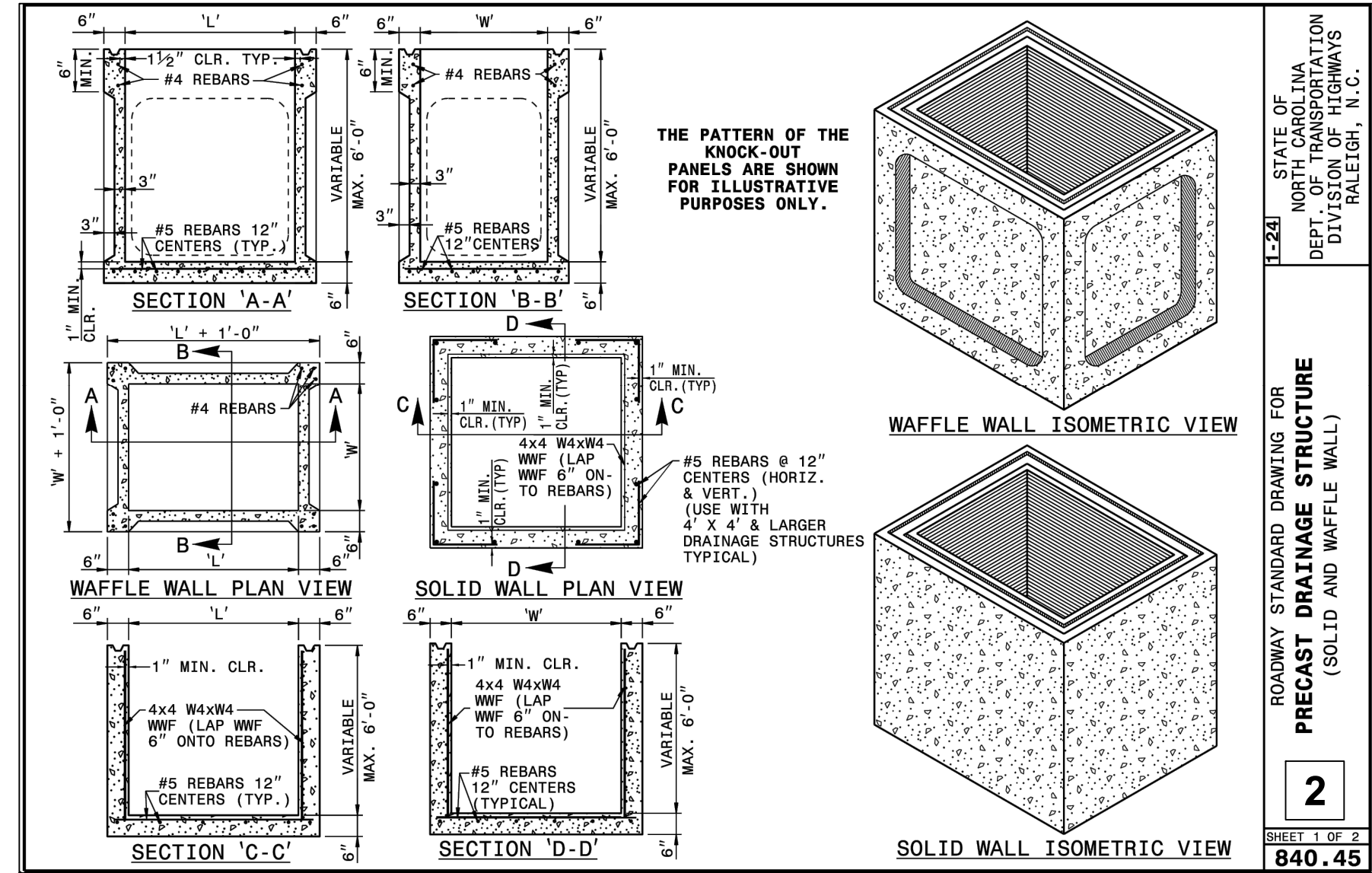
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Bar Measures 1 inch

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1 RISER STRUCTURE (NOT TO SCALE)



TETRA TECH
ENGINEERING, PC

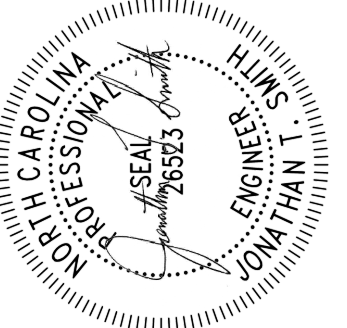


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AUGUST 26, 2026





MARK	DATE	DESCRIPTION	BY
X	8/26/26	REVISED	JS

Legion Pond

ISSUED FOR PERMITTING

CONSTRUCTION DETAILS - 1

Project No.: T43655

Designed By: DO

Drawn By: WH

Checked By: DS

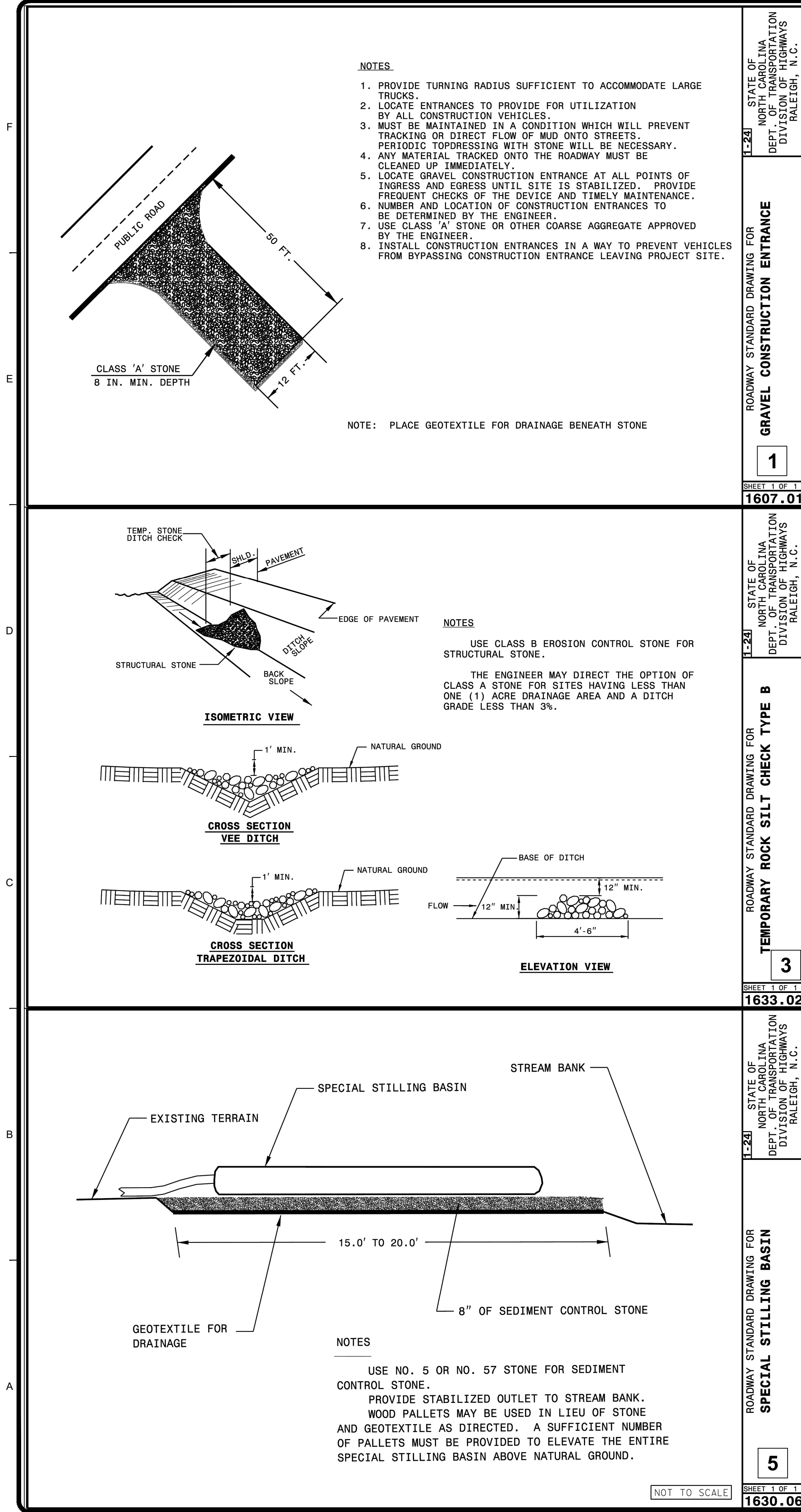
Sheet CD101

10 of 15 Sheets

Bar Measures 1 inch

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NOTES

1. PROVIDE TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS.
2. LOCATE ENTRANCES TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS. PERIODIC TOPDRESSING WITH STONE WILL BE NECESSARY.
4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST BE CLEANED UP IMMEDIATELY.
5. LOCATE GRAVEL CONSTRUCTION ENTRANCE AT ALL POINTS OF INGRESS AND EGRESS UNTIL SITE IS STABILIZED. PROVIDE FREQUENT CHECKS OF THE DEVICE AND TIMELY MAINTENANCE.
6. NUMBER AND LOCATION OF CONSTRUCTION ENTRANCES TO BE DETERMINED BY THE ENGINEER.
7. USE CLASS 'A' STONE OR OTHER COARSE AGGREGATE APPROVED BY THE ENGINEER.
8. INSTALL CONSTRUCTION ENTRANCES IN A WAY TO PREVENT VEHICLES FROM BYPASSING CONSTRUCTION ENTRANCE LEAVING PROJECT SITE.

NOTE: PLACE GEOTEXTILE FOR DRAINAGE BENEATH STONE

NOTES

USE CLASS B EROSION CONTROL STONE FOR STRUCTURAL STONE.

THE ENGINEER MAY DIRECT THE OPTION OF CLASS A STONE FOR SITES HAVING LESS THAN ONE (1) ACRE DRAINAGE AREA AND A DITCH GRADE LESS THAN 3%.

ELEVATION VIEW

STREAM BANK

NOTES

- USE NO. 5 OR NO. 57 STONE FOR SEDIMENT CONTROL STONE.
- PROVIDE STABILIZED OUTLET TO STREAM BANK. WOOD PALLETS MAY BE USED IN LIEU OF STONE AND GEOTEXTILE AS DIRECTED. A SUFFICIENT NUMBER OF PALLETS MUST BE PROVIDED TO ELEVATE THE ENTIRE SPECIAL STILLING BASIN ABOVE NATURAL GROUND.

NOTES

EXCAVATE TEMPORARY SILT DITCH WITH NON-VERTICAL SIDE SLOPES AND NOT GREATER THAN 1.5:1 SLOPE.

STABILIZE TEMPORARY SILT DITCH AS DIRECTED.

CROSS SECTIONAL VIEW

SPECIAL STILLING BASIN NOTES

1. DEWATERING BAG SHALL BE PLACED ON FILTER STONE TO INCREASE DISCHARGE CAPACITY. BAG SHOULD NOT BE PLACED ON SLOPES GREATER THAN 5%. FOR SLOPES EXCEEDING 5%, CLEAN ROCK OR OTHER NON-ERODIBLE AND NON-POLLUTING MATERIAL MAY BE PLACED UNDER THE BAG TO REDUCE SLOPE STEEPNESS.
2. MINIMUM SIZE TO BE 10 FEET X 15 FEET. SEDIMENT CONTROL STONE TO BE NO. 57 STONE.
3. PUMP INTAKE SHOULD BE FLOATING AND SCREENED. PUMPS UTILIZED DURING DEWATERING SHALL BE PLACED WITHIN SECONDARY CONTAINMENT IF POSITIONED WITHIN 150-FT OR A SURFACE WATERS, STREAMS, OR WETLANDS.
4. THE SILT SOCK IS TO WRAP AROUND THE STILLING BASIN FILTER BAG AS AN ADDITIONAL MEASURE TO PROTECT AGAINST SEDIMENT-LADEN EFFLUENT. SEE DETAIL 7 ON SHEET CD104 FOR ADDITIONAL SILT SOCK SPECIFICATIONS AND NOTES.
5. DEWATERING BAG TO BE CONTINUOUSLY MONITORED DURING OPERATION. INSPECT DEWATERING BAG DAILY AND AFTER SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE BAG HAS TAKEN PLACE, OR IF THE BAG IS LEAKING OR HAS BEEN DISLODGED.
6. REPLACE AND DISPOSE OF THE BAG WHEN IT IS ¾ FULL OF SEDIMENT OR WHEN IT IS IMPRACTICAL FOR THE BAG TO FILTER THE SEDIMENT OUT AT A REASONABLE RATE. REPLACE DEWATERING BAG IF BAG CLOGS OR HAS RIPS, TEARS, OR PUNCTURES. THIS DISPOSAL WILL BE FROM THE PROJECT SITE TO ANOTHER SITE. PLAN FOR THE DISPOSED MATERIAL.
7. MAINTAIN ALL VEGETATION ADJACENT TO THE STILLING BASIN IN A HEALTHY, VIGOROUS CONDITION. RESTORE STONE IN AREAS THAT HAVE LESS THAN THE MINIMUM THICKNESS.
8. WOOD PALLETS ARE NOT PERMITTED. SPECIAL STILLING BASIN TO INCLUDE GEOTEXTILE FOR DRAINAGE, SEDIMENT CONTROL STONE, A SILT SOCK, AND ALL OTHER MATERIALS IN ACCORDANCE WITH NCDOT SECTION 1639 AND MANUFACTURER SPECIFIC REQUIREMENTS.
9. THE SILT SOCK IS TO WRAP AROUND THE STILLING BASIN FILTER BAG AS AN ADDITIONAL MEASURE TO PROTECT AGAINST SEDIMENT-LADEN EFFLUENT. SEE DETAIL 7 ON SHEET CD104 FOR ADDITIONAL SILT SOCK SPECIFICATIONS AND NOTES.
10. ALL SPECIAL STILLING BASIN WORK IS INCIDENTAL TO THE COST OF THE CONTROL AND MONITORING OF DEWATERING ACTIVITIES (DEWATERING PUMP).
11. SEE NCDOT SECTION 1639 FOR ADDITIONAL SPECIAL STILLING BASIN SPECIFICATIONS.

DATE:

TEMPORARY SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING	
Seeding Mixture	Rate (lb/acre)
Species	
Rye (grain)	120
Annual lespedeza (Kobe in Piedmont and Coastal Plain, Korean in Mountains)	50
Omit annual lespedeza when duration of temporary cover is not to extend beyond June.	
Seeding Dates	
Mountains—Above 2500 feet: Feb. 15 - May 15	
Piedmont—Jan. 1 - May 1	
Coastal Plain—Dec. 1 - Apr. 15	
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.	
Maintenance	
Re-fertilize if growth is not fully adequate. Reseed, re-fertilize and mulch immediately following erosion or other damage.	

TEMPORARY SEEDING RECOMMENDATIONS FOR SUMMER	
Seeding Mixture	Rate (lb/acre)
Species	
German millet	40
In the Piedmont and Mountains, a small-stemmed Sudangrass may be substituted at a rate of 50 lb/acre.	
Seeding Dates	
Mountains—May 15 - Aug. 15	
Piedmont—May 1 - Aug. 15	
Coastal Plain—Apr. 15 - Aug. 15	
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.	
Maintenance	
Re-fertilize if growth is not fully adequate. Reseed, re-fertilize and mulch immediately following erosion or other damage.	

TEMPORARY SEEDING RECOMMENDATIONS FOR FALL	
Seeding Mixture	Rate (lb/acre)
Species	
Rye (grain)	120
Seeding Dates	
Mountains—Aug. 15 - Dec. 15	
Coastal Plain and Piedmont—Aug. 15 - Dec. 31	
Mulch	
Apply 4,000 lb/acre straw. Anchor straw by tacking with asphalt, netting, or a mulch anchoring tool. A disk with blades set nearly straight can be used as a mulch anchoring tool.	
Maintenance	
Repair and re-fertilize damaged areas immediately. Topdress with 50 lb/acre of nitrogen in March. If it is necessary to extend temporary cover beyond June 15, overseed with 50 lb/acre Kobe (Piedmont and Coastal Plain) or Korean (Mountains) lespedeza in late February or early March.	

LIMING: Apply lime according to soil test recommendations. If the pH (acidity) of the soil is not known, an application of ground agricultural limestone at the rate of 1-1½ tons/acre on coarse-textured soils and 2-3 tons/acre on fine-textured soils is usually sufficient. Apply limestone uniformly and incorporate into the top 4-6 inches of soil. Soils with a pH of 6 or higher need not be limed.

FERTILIZER: Base application rates on soil tests. When these are not possible, apply a 10-10-10 grade fertilizer at 700 - 1,000 lb/acre. Both fertilizer and lime should be incorporated into the top 4-6 inches of soil. If a hydraulic seeder is used, do not mix seed and fertilizer more than 30 minutes before application.

SURFACE ROUGHENING: If recent tillage operations have resulted in a loose surface additional roughening may not be required, except to break up large clods. If rainfall causes the surface to become sealed or crusted, loosen it just prior to seeding by raking, harrowing, or other suitable methods for fine grading. The finished grade shall be a smooth even soil surface with a loose uniform fine texture. All ridges and depressions shall be removed and filled to provide the approved surface drainage. Planting is to be done immediately after finished grades are obtained and seedbed preparation is completed.



6

TEMPORARY SEEDING

DATE:

NON-INVASIVE PERMANENT SEEDING RECOMMENDATIONS FOR LATE WINTER AND EARLY SPRING	
Seeding Mixture	Rate
Species	
Centipede	5 lb/acre
Indian Woodrats	1.5-2.5 lb/acre*
Virginia Wild Rye	4-6 lb/acre

NON-INVASIVE PERMANENT SEEDING RECOMMENDATIONS FOR SUMMER	
Seeding Mixture	Rate
Species	
Indian Woodrats	1.5-2.5 lb/acre*
Virginia Wild Rye	4-6 lb/acre*

SEEDING MIXTURE	
Species	Rate
Hard Fescue	15 lb/acre
Switchgrass	2.5-3.5 lb/acre*
Indian Grass	5-7 lb/acre*
Big Bluestem	5-7 lb/acre*
Indian Woodrats	1.5-2.5 lb/acre*
Virginia Wild Rye	4-6 lb/acre*

*Depending upon mix with other species. See table 6.11.4 from Chapter 6 of the NC Erosion and Sediment Control Planning and Design Manual.

Seeding Dates
Coastal or Eastern Piedmont for Centipede- Sept. 1 - May 1
Coastal and Piedmont for Indian Woodrats and Virginia Wild Rye- Feb. 15 - April 1
Mountains for Indian Woodrats and Virginia Wild Rye- March 1 - May 15

Maintenance:
Significant maintenance may be required to obtain desired cover.

SEED BED PREPARATION:
LIMING: Apply lime according to soil test recommendations. If the pH (acidity) of the soil is not known, an application of ground agricultural limestone at the rate of 1 to 1½ tons/acre on coarse-textured soils and 2-3 tons/acre on fine-textured soils is usually sufficient. Apply limestone uniformly and incorporate into the top 4-6 inches of soil. Soils with a pH of 6 or higher need not be limed.

FERTILIZER: Base application rates on soil tests. When these are not possible, apply a 10-10-10 grade fertilizer at 700-1,000 lb/acre. Both fertilizer and lime should be incorporated into the top 4-6 inches of soil. If a hydraulic seeder is used, do not mix seed and fertilizer more than 30 minutes before application.

SURFACE ROUGHENING: If recent tillage operations have resulted in a loose surface additional roughening may not be required, except to break up large clods. If rainfall causes the surface to become sealed or crusted, loosen it just prior to seeding by raking, harrowing, or other suitable methods for fine grading. The finished grade shall be a smooth even soil surface with a loose uniform fine texture. All ridges and depressions shall be removed and filled to provide the approved surface drainage. Planting is to be done immediately after finished grades are obtained and seedbed preparation is completed.

NOTES:
1. Permanent seeding, sodding or other means of stabilization are required when all construction work is completed according to the NPDES timeframes table.
2. A North Carolina Department of Agriculture soils test (or equal) is highly recommended to be obtained for all areas to be seeded, sprigged, sodded or planted.
3. Use a seeding mix that will produce fastgrowing nurse crops and includes non-invasives that will eventually provide a permanent groundcover. Soil blankets may be used in lieu of nurse crops.
4. Mat, tack or crimp mulch, as needed to stabilize seeded areas until not establishment. Mulch must cover at least 80% of the soil surface.

SEEDING MIXTURE
Species Rate
Hard Fescue 15 lb/acre
Switchgrass 2.5-3.5 lb/acre*
Indian Grass 5-7 lb/acre*
Big Bluestem 5-7 lb/acre*
Indian Woodrats 1.5-2.5 lb/acre*
Virginia Wild Rye 4-6 lb/acre*

*Depending upon mix with other species. See table 6.11.4 from Chapter 6 of the NC Erosion and Sediment Control Planning and Design Manual.

Seeding Dates
Mountains - July 15- Aug 15
Piedmont - Aug 15 - Oct 15

Maintenance:
Indian Woodrats and Virginia Wild Rye are both sun and shade tolerant.

SEED BED PREPARATION:
LIMING: Apply lime according to soil test recommendations. If the pH (acidity) of the soil is not known, an application of ground agricultural limestone at the rate of 1 to 1½ tons/acre on coarse-textured soils and 2-3 tons/acre on fine-textured soils is usually sufficient. Apply limestone uniformly and incorporate into the top 4-6 inches of soil. Soils with a pH of 6 or higher need not be limed.

FERTILIZER: Base application rates on soil tests. When these are not possible, apply a 10-10-10 grade fertilizer at 700-1,000 lb/acre. Both fertilizer and lime should be incorporated into the top 4-6 inches of soil. If a hydraulic seeder is used, do not mix seed and fertilizer more than 30 minutes before application.

SURFACE ROUGHENING: If recent tillage operations have resulted in a loose surface additional roughening may not be required, except to break up large clods. If rainfall causes the surface to become sealed or crusted, loosen it just prior to seeding by raking, harrowing, or other suitable methods for fine grading. The finished grade shall be a smooth even soil surface with a loose uniform fine texture. All ridges and depressions shall be removed and filled to provide the approved surface drainage. Planting is to be done immediately after finished grades are obtained and seedbed preparation is completed.

NOTES:
1. Permanent seeding, sodding or other means of stabilization are required when all construction work is completed according to the NPDES timeframes table.
2. A North Carolina Department of Agriculture soils test (or equal) is highly recommended to be obtained for all areas to be seeded, sprigged, sodded or planted.
3. Use a seeding mix that will produce fastgrowing nurse crops and includes non-invasives that will eventually provide a permanent groundcover. Soil blankets may be used in lieu of nurse crops.
4. Mat, tack or crimp mulch, as needed to stabilize seeded areas until not establishment. Mulch must cover at least 80% of the soil surface.



7

PERMANENT SEEDING

DATE:

Mulching Materials and Application Rates			
Material	Organic	Rate Per Acre	Quality
Straw		1-2 tons	Dry, undropped, unweathered; avoid weeds.
Wood Chips		5-6 tons	Air dry
Wood Fiber		0.5-1 tons	Air dry, shredded or hammer-milled, or chips.
Bark		35 cubic yards	Apply with mulch blower, chip handler, or by hand. Do not use asphalt tack.
Corn Stalks		4-6 tons	Cut or shredded in 4-6 inch lengths.
Serenoa Lepidodermis seed-bearing stems		1-3 tons	Green or dry; should contain mature seed.
Notes and Mats*			
Jute net	Cover area		Heavy, uniform, woven of single jute yarn.
Fiberglass net	Cover area		Withstands waterflow. Best when used with organic mulch.
Excelsior (wood fiber net)	Cover area		Withstands waterflow. Best when used with organic mulch.
Aquatin Aerospay Cured AK Perforated SB Terra Task Coast 900 Genacore 743 M-145			Follow Manufacturer's specifications
*Refer to Practice No. 6-30, Grass Lined Channels in the NC DEQ EASG Planning and Design Manual. *Use of trade names does not imply endorsement of product.			

NOTES:
1. Select material based on site and practice requirements, availability of material, labor and equipment.
2. Before mulching, complete grading, install sediment control practices, and prepare the seedbed. Apply seed before mulching except when seed is applied as part of a hydroseed slurry containing wood fiber mulch or a hydroseed slurry is applied over straw.

APPLICATION OF ORGANIC MULCH
1. Spread mulch uniformly by hand, or with a mulch blower.
2. When spreading straw mulch by hand, divide the area to be mulched into sections of approximately 1,000 ft², and place 70-90 lb of straw (1½ to 2 bales) in each section to facilitate uniform distribution.
3. After spreading, no more than 25% of the ground surface should be visible.
4. In hydroseeding operations a green dye, added to the slurry, assures a uniform application.

ANCHORING ORGANIC MULCH
1. Straw mulch must be anchored immediately after spreading.
2. A tractor-drawn implement designed to punch mulch into the soil or a mulch anchoring tool provides maximum erosion control with straw. A regular farm disk, weighted and set nearly straight, may substitute, but will not do a job comparable to the mulch anchoring tool. The disk should not be sharp enough to cut the straw. These methods are limited to slopes no steeper than 3:1, where equipment can operate safely.
3. Application of liquid mulch binders and tackifiers should be heaviest at the edges of areas and at crests of ridges and banks, to resist winds. Binder should be applied uniformly to the rest of the area. Binders may be applied after mulch is spread, or may be sprayed into the mix as it is being blown onto the soil. Applying straw and binder together is the most effective method.
4. Emulsified asphalt should be applied at 0.10 gallons per square yard (10 gal/1,000 ft²). Heavier applications cause straw to "breathe" over time. Liquid setting (RS or CRS) designated asphalt in traffic areas to prevent unbound asphalt from being picked up on shoes and causing damage to rugs, clothes, etc.
5. Synthetic binders may be used as recommended by the manufacturer.
6. Lightweight plastic, cotton, jute, wire or paper nets may be stapled over the mulch according to the manufacturer's recommendations.
7. For small areas where other methods cannot be used, peg and wire anchoring can be used. Drive 8-10 inch wooden pegs to within 3 inches of the soil surface, every 4 feet in all directions. Stakes can be driven before or after straw is spread. Secure mulch by stretching twine between pegs in a cross-cross-within-a-square pattern. Turn twine two or more times around each peg.
8. Rye Grass may be used to anchor mulch in fall plantings, and German Millet in spring. Broadcast at 15 lb/acre before applying mulch.

CHEMICAL MULCHES
1. May be effective for soil stabilization if used between May 1 and June 15, or Sept. 15 and Oct. 15, provided that they are used on slopes no steeper than 4:1, and that proper seedbed preparation has been accomplished, including surface roughening where required.
2. Chemical mulches cannot be used to bind other mulches, or with wood fiber in a hydroseeded slurry at any time. Follow the manufacturer's recommendations for application.

FIBERGLASS ROVING
1. Spread roving uniformly over the area at a rate of 0.25 to 0.35 bag/ft². Anchor with asphalt immediately after application, at a rate of 0.25 to 0.35 gal/ft².
2. As a channel lining, and at other sites of concentrated flow, the roving mat must be further anchored to prevent undermining.
3. It may be secured with stakes placed at intervals no greater than 10 feet along the drainageway, and randomly throughout its length, but not more than 10 feet apart.
4. As an option to staking, the roving can be buried to a depth of 5 inches at the upgrade end and at intervals of 50 feet along the length of the channel.

NETS AND MATS
1. Nets alone generally provide little moisture conservation benefits and only limited erosion protection. Therefore, typically use in conjunction with an organic mulch such as straw.
2. Except when wood fiber slurry is used, netting should always be installed over the mulch. Wood fiber may be sprayed on top of an installed net.
3. Mats, including "excelsior" (wood fiber) blankets, are considered protective mulches and may be used alone.
4. Place the matting in firm contact with the soil, and staple securely.

DATE:

GENERAL NOTES

1. RIP RAP AT 24" PIPE OUTLET DOUBLED TO 8 X D (16") TO ACCOMMODATE DESIGN EVENT AND TOE DRAIN DAYLIGHTS.
2. RIP RAP AT EMERGENCY SPILLWAY OUTLET 20' LONG.
3. REFER TO NCDOT 1620 AND 1660-1662 FOR TEMPORARY AND PERMANENT SEEDING SPECIFICATIONS. THE SPECIFICATION OVERRIDES ANY DISCREPANCIES.
4. OTHER SEEDING RATE COMBINATIONS THAN SHOWN ARE POSSIBLE. MODIFICATIONS CAN BE PERMITTED. CONSULT EROSION CONTROL ENGINEER FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUED AREAS. A REQUEST MUST BE MADE IN WRITING DESCRIBING THE DESIRED PLANTING TIME FRAME AND THE MEASURES THAT WILL BE TAKEN TO ENSURE PLANT SURVIVAL.

TETRA TECH
ENGINEERING, PC



www.tetratech.com
4000 Sancar Way, Suite 135
Research Triangle Park, NC 27709
Phone: (919) 485-8278

RELEASED FOR BIDDING

AUGUST 26, 2026



BY	DATE	DESCRIPTION
JS	8/26/26	REVISED
X		

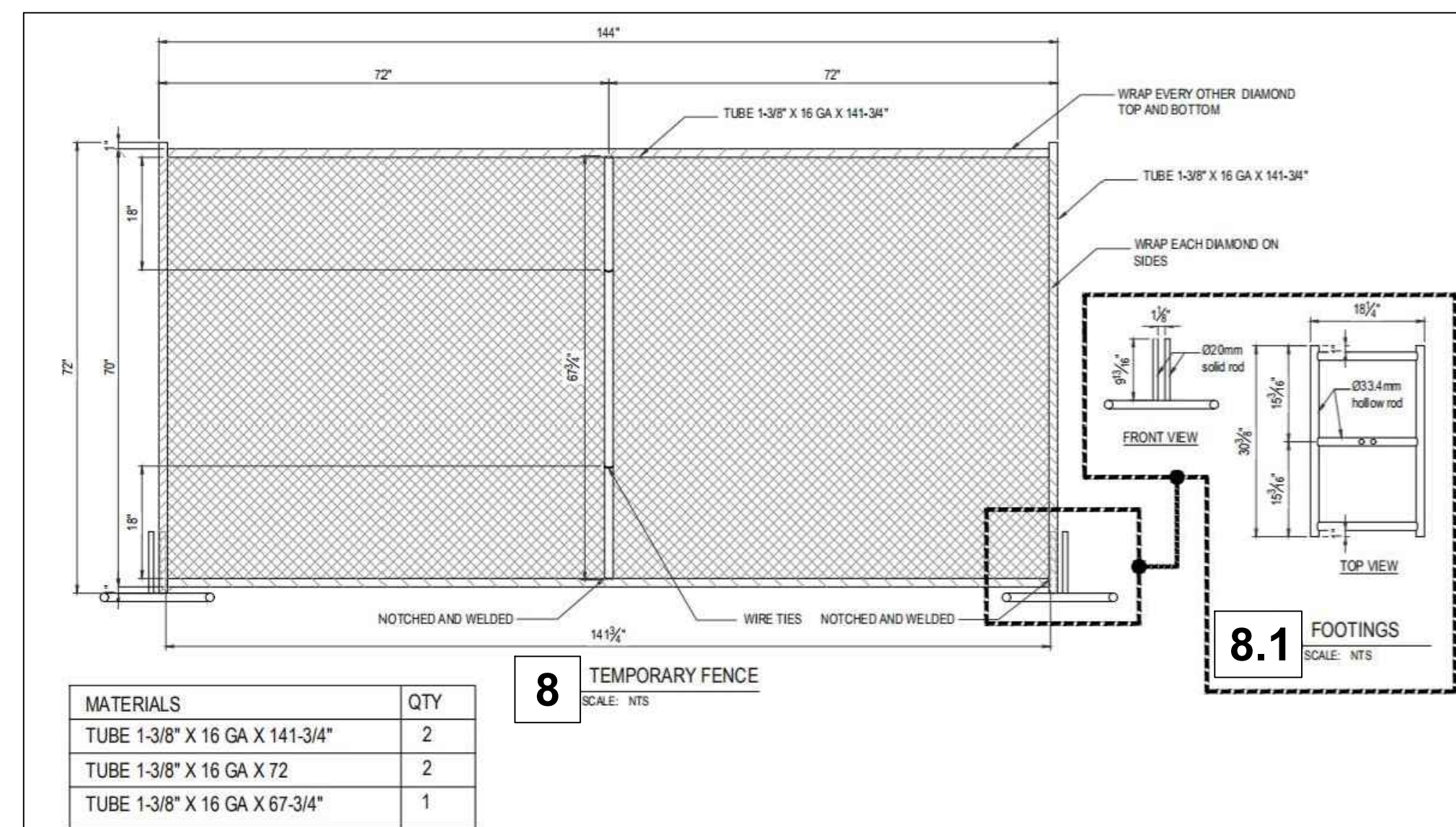
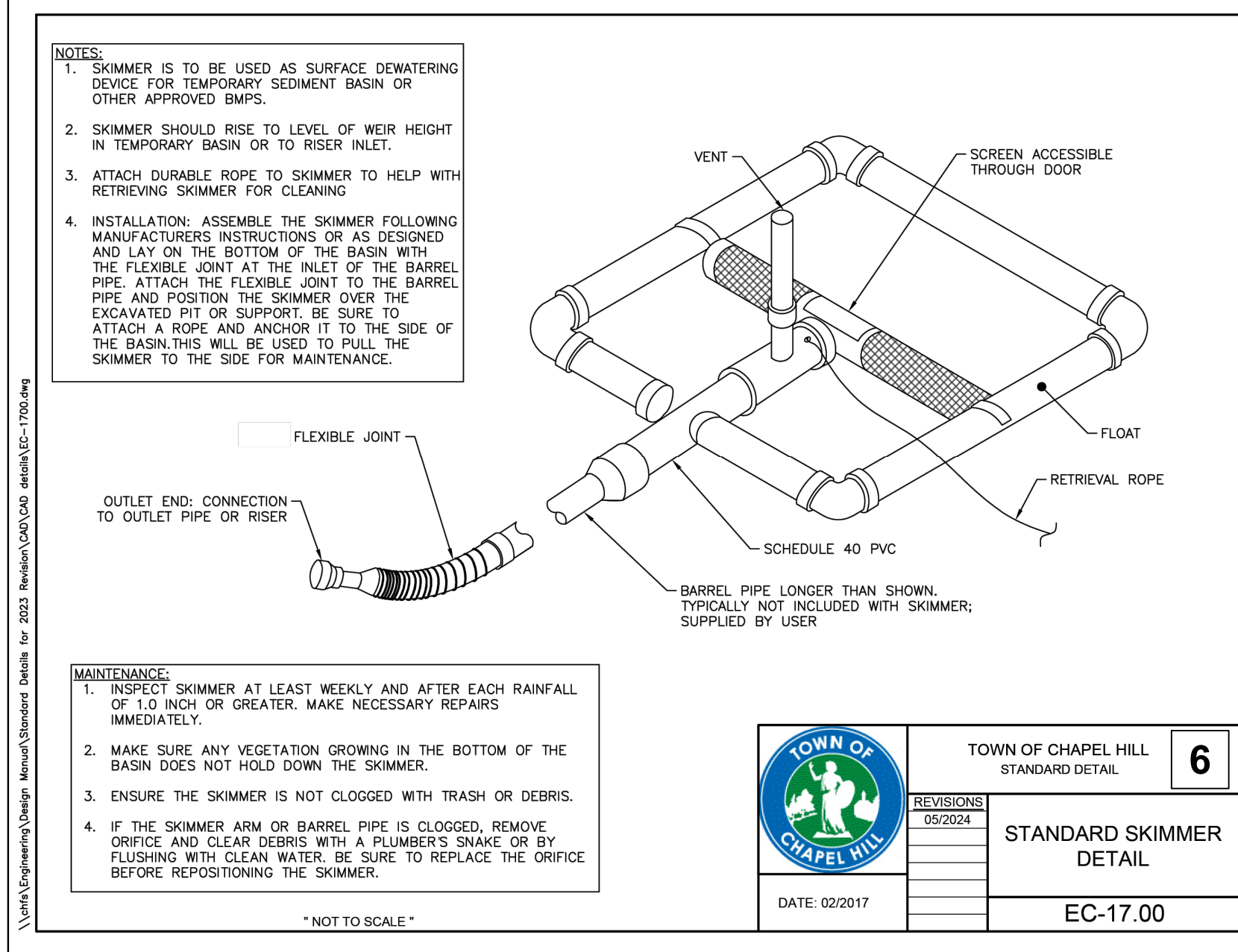
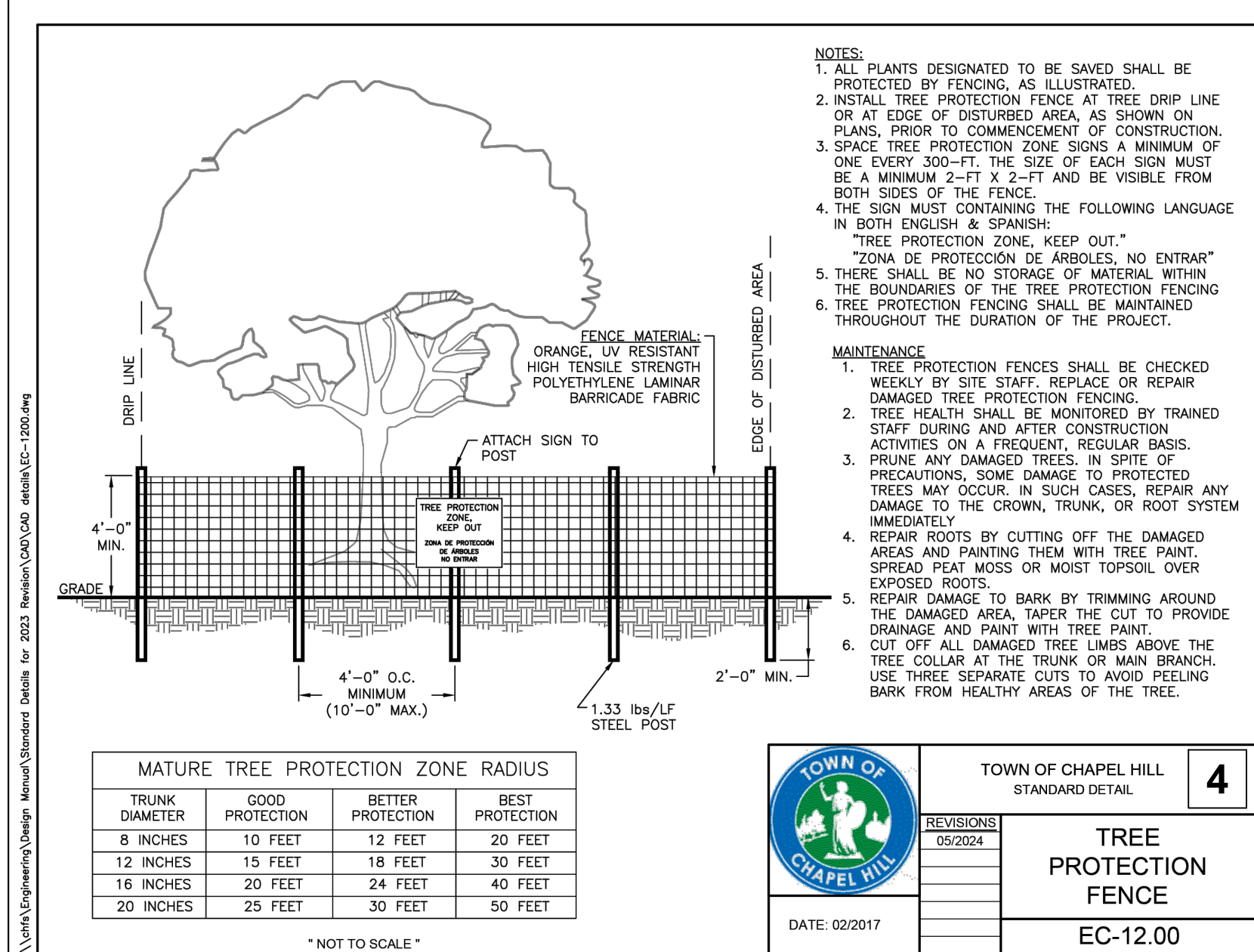
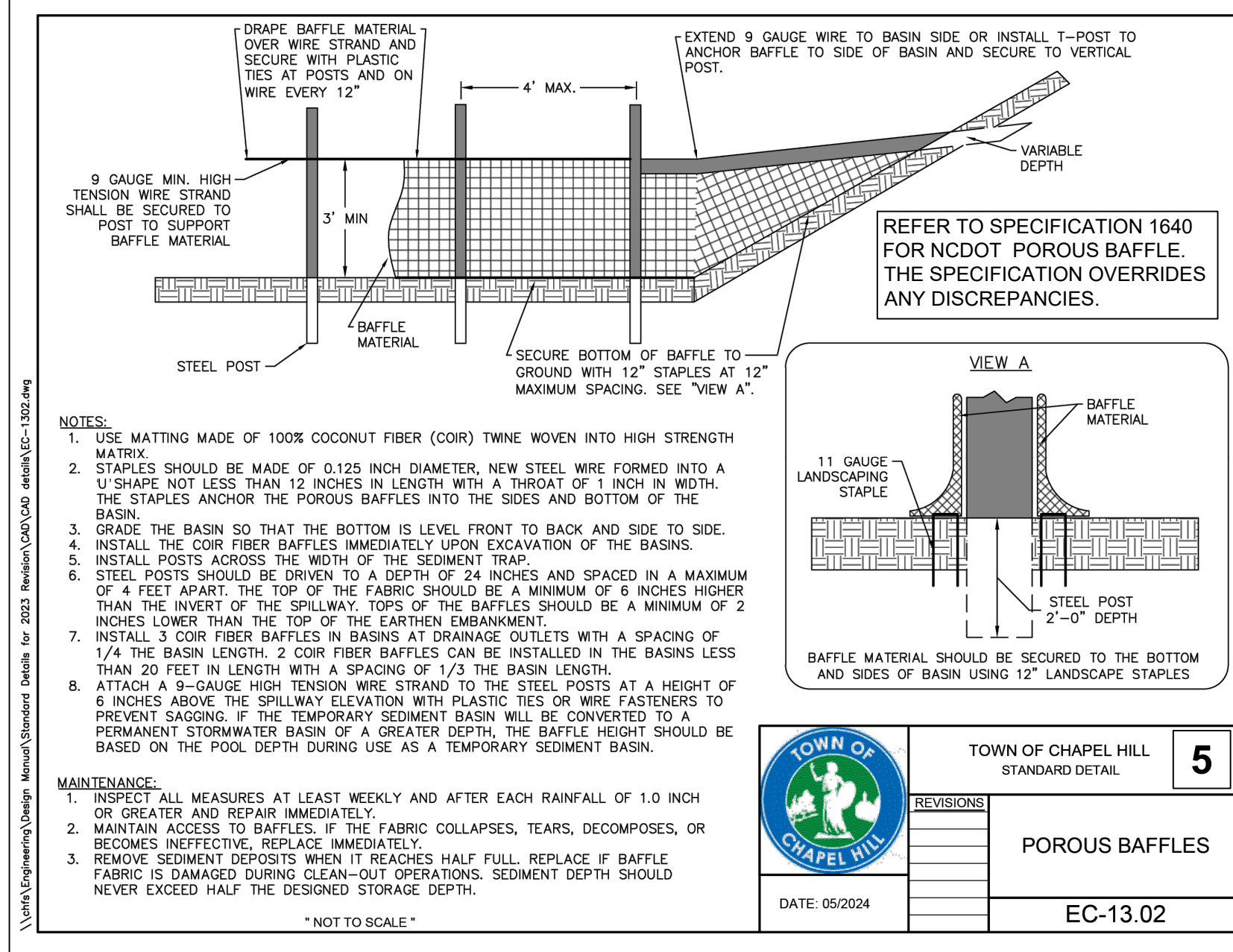
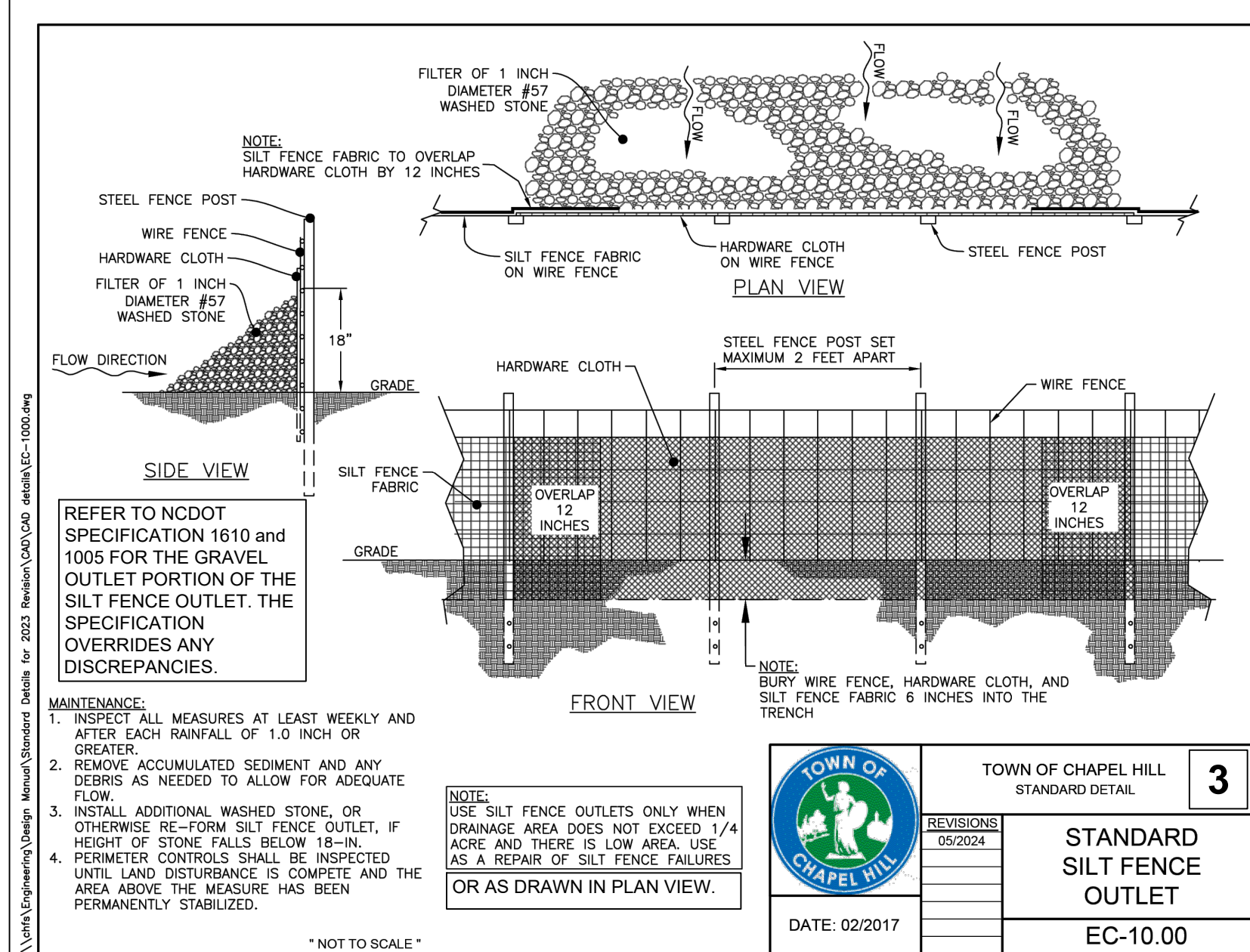
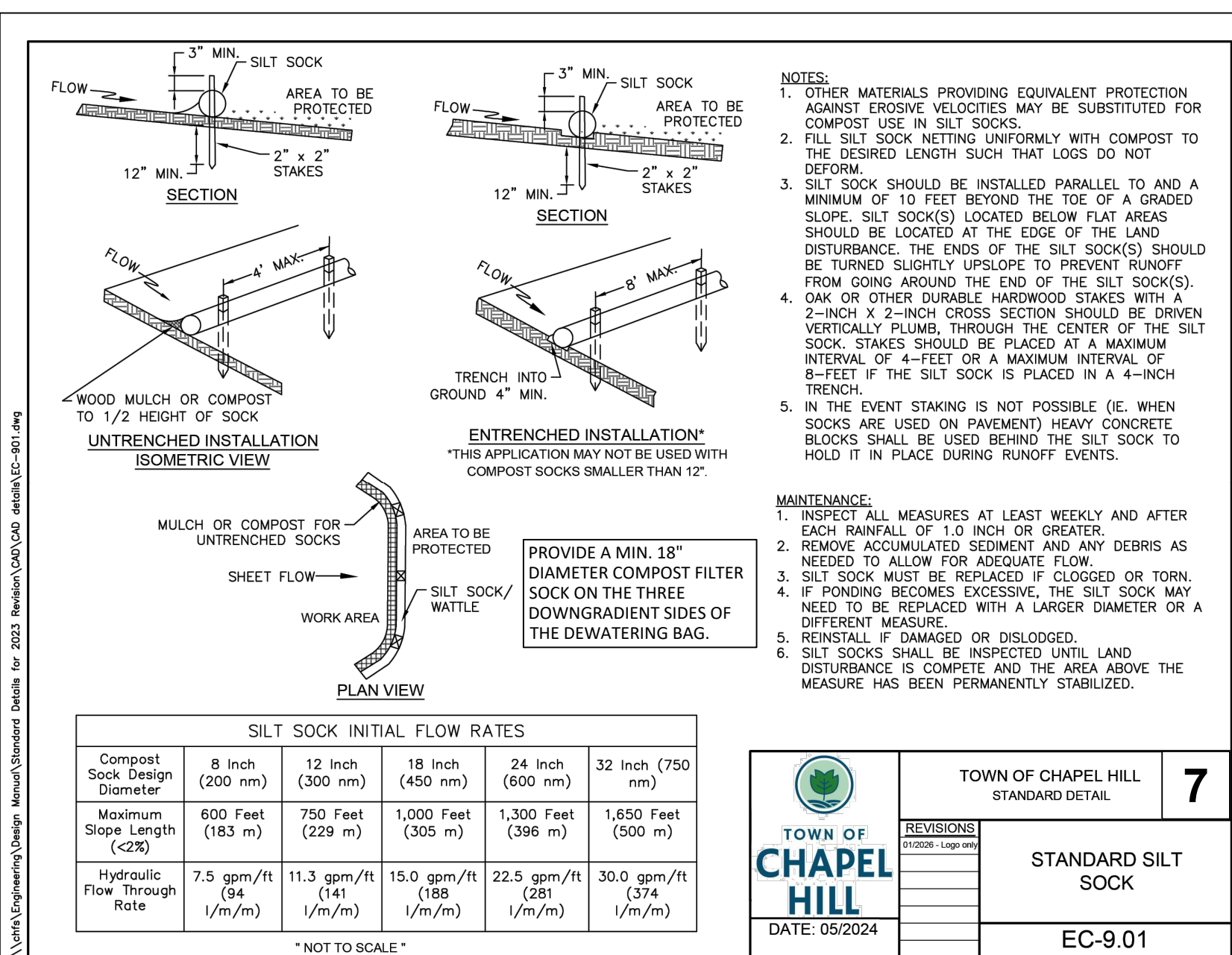
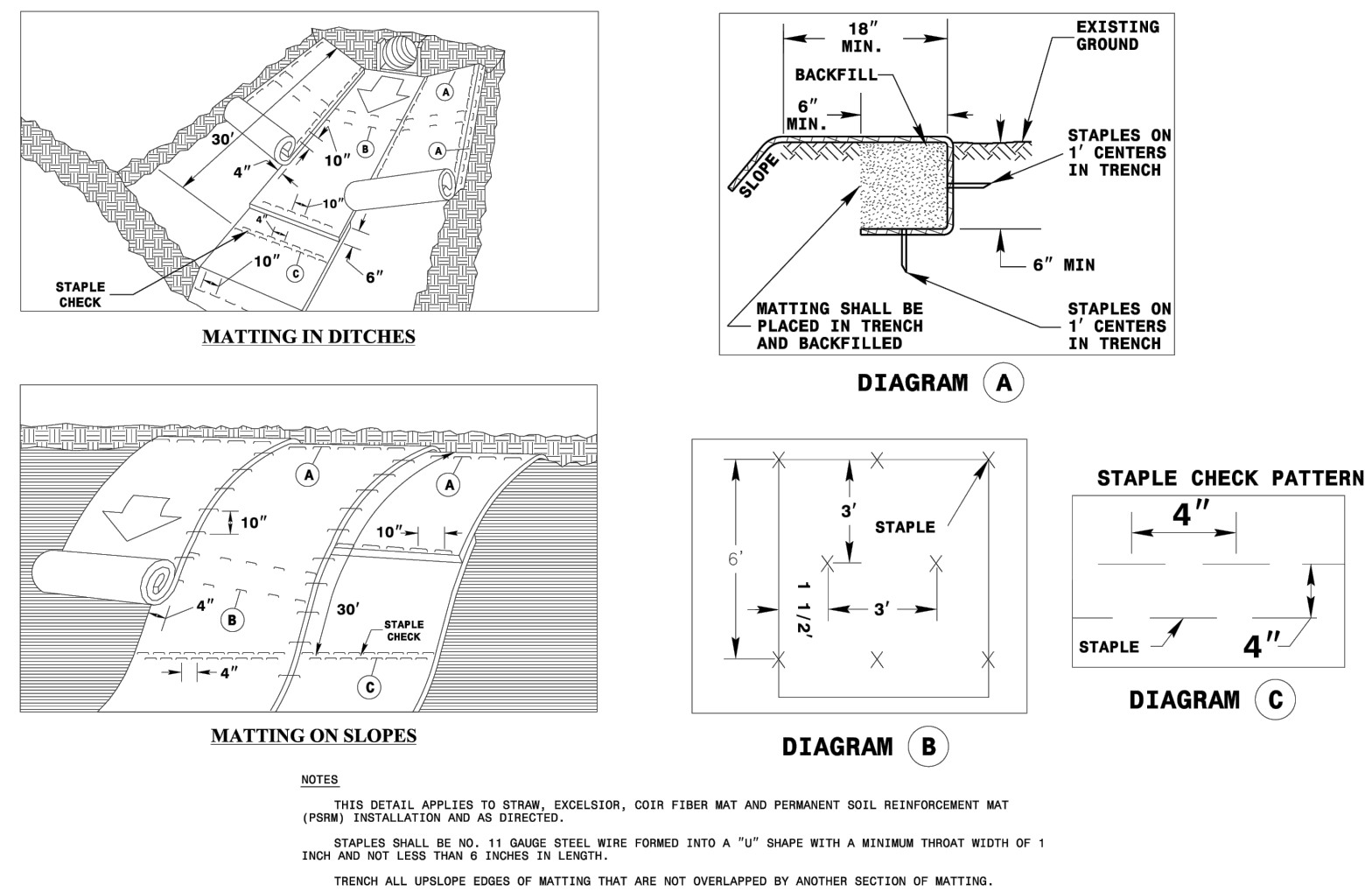
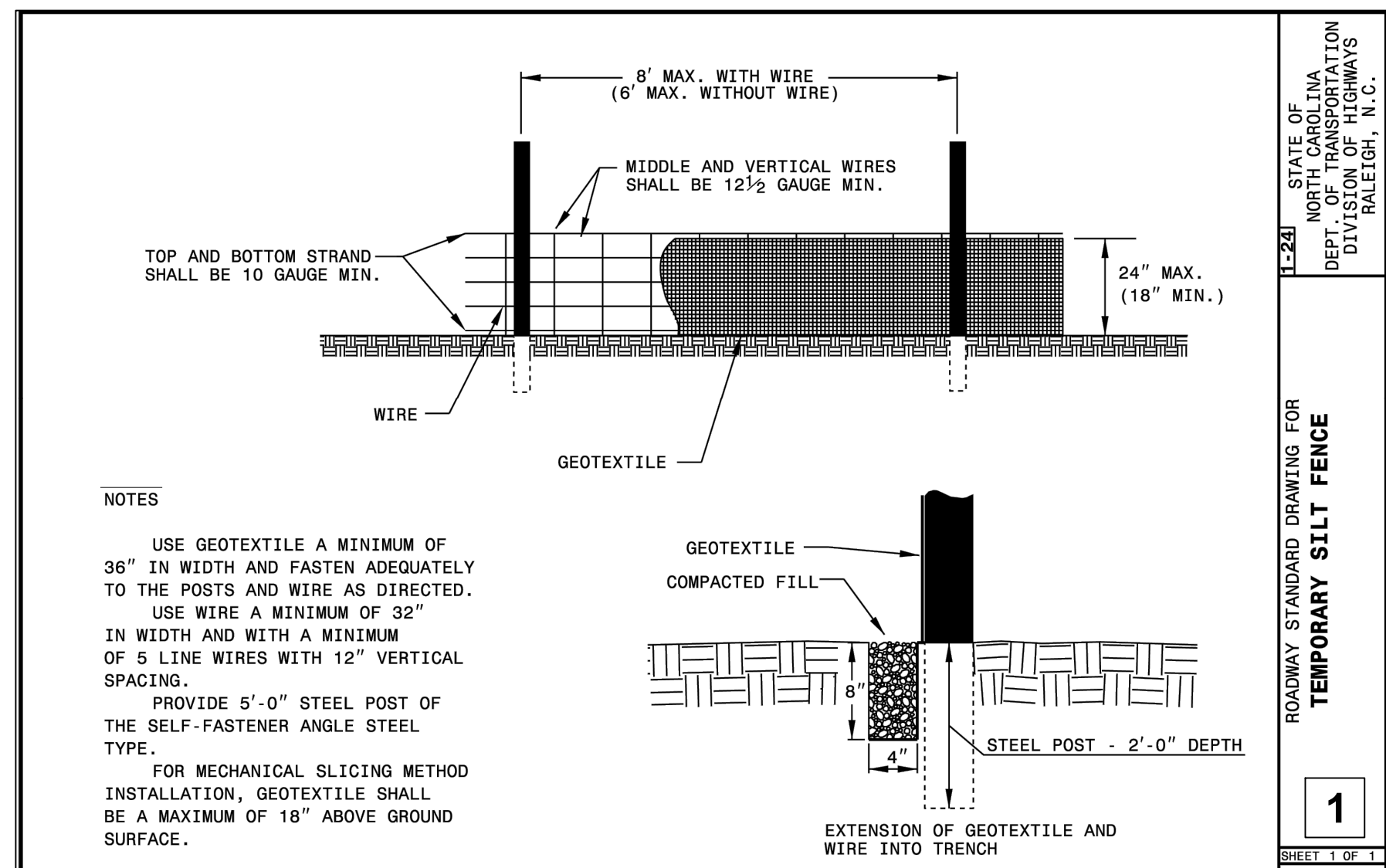
Legion Pond
ISSUED FOR PERMITTING

CONSTRUCTION DETAILS - 3

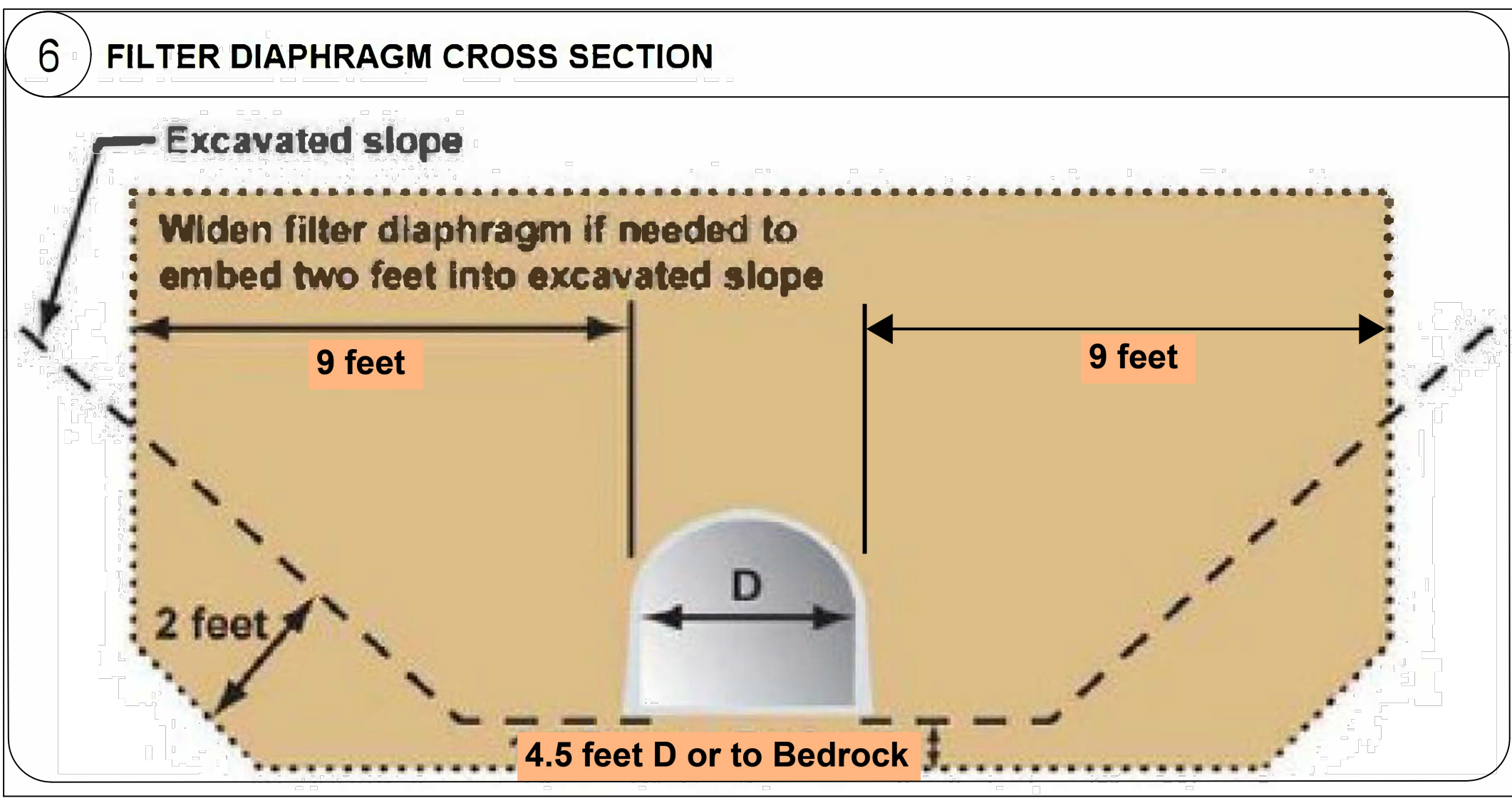
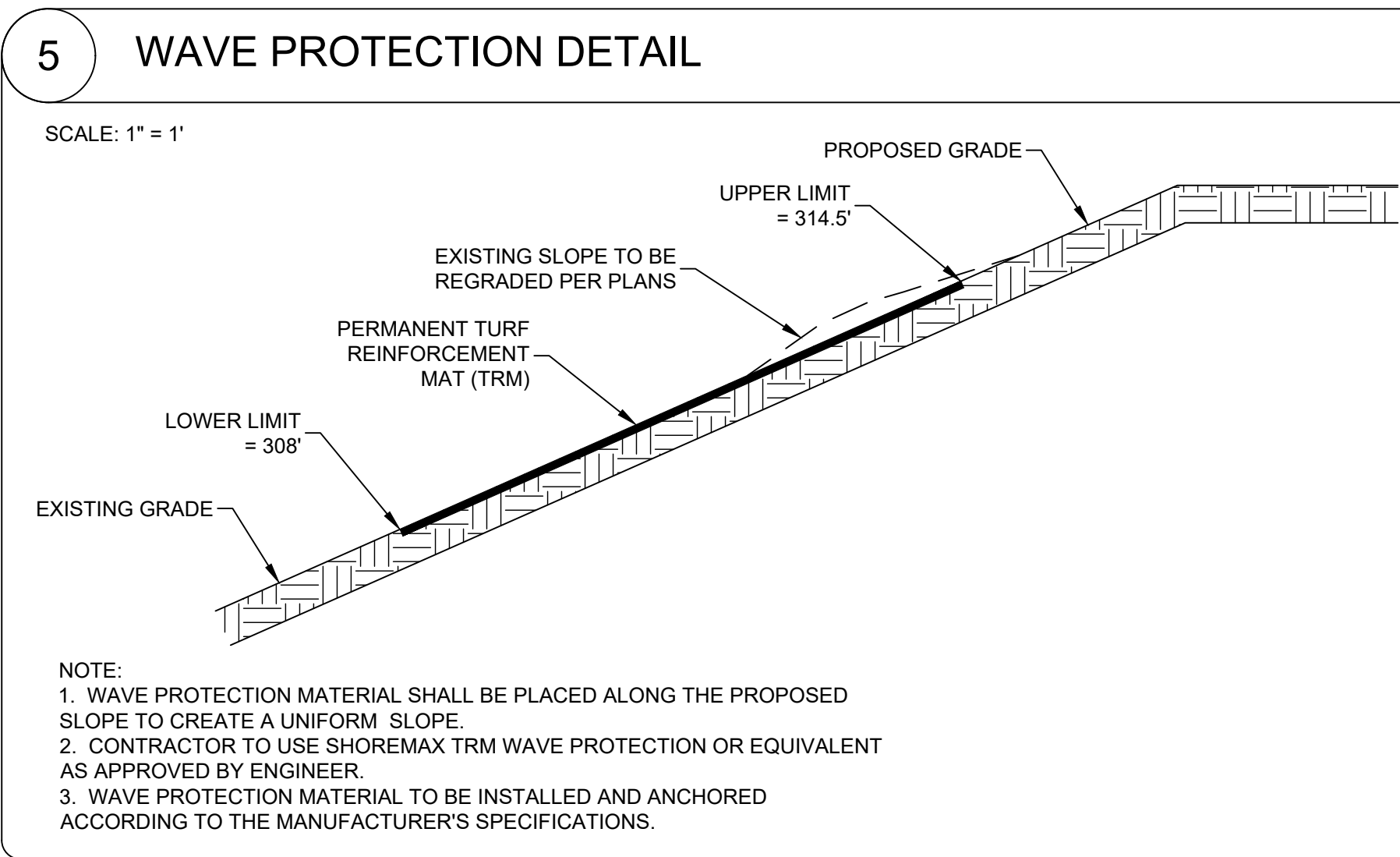
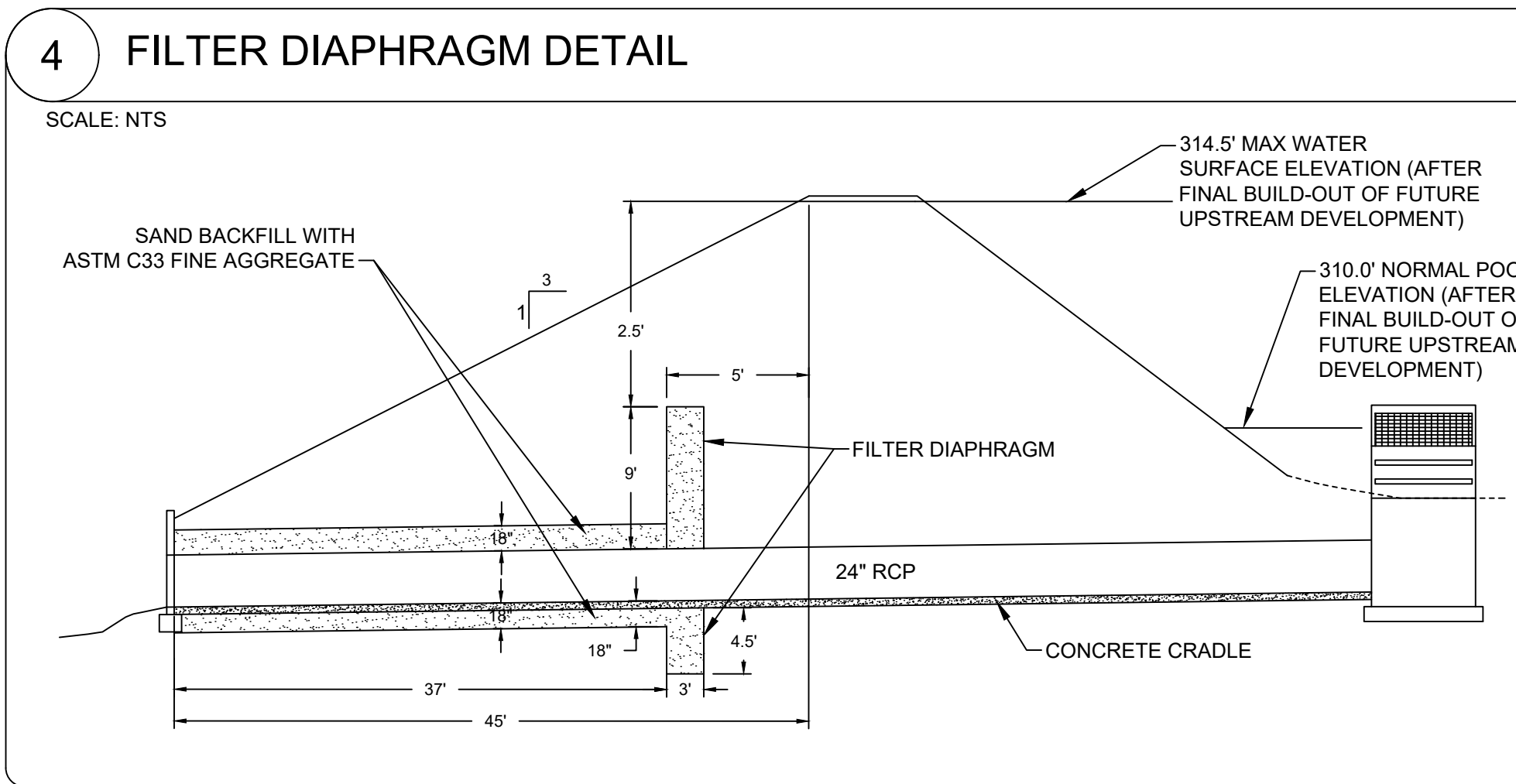
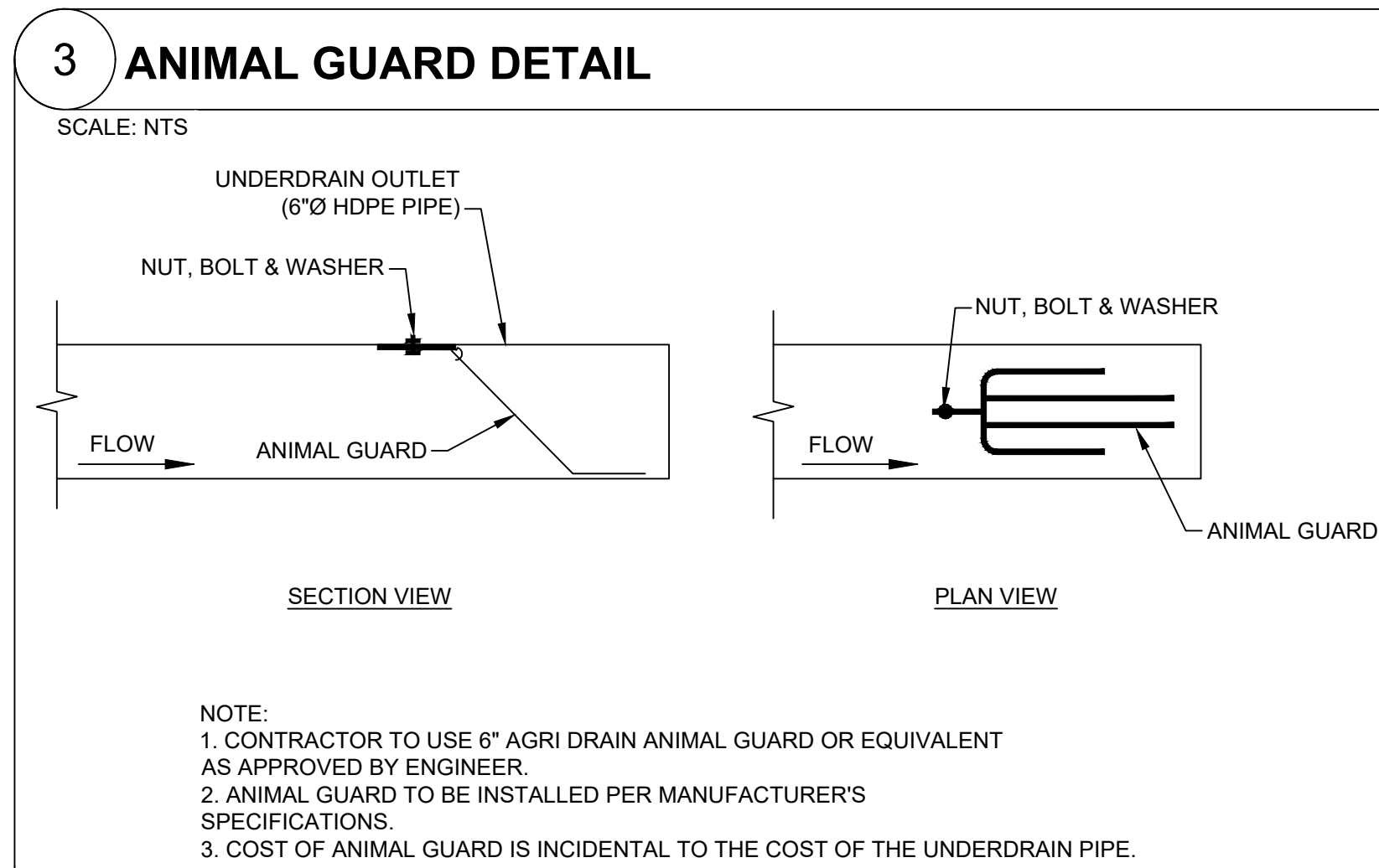
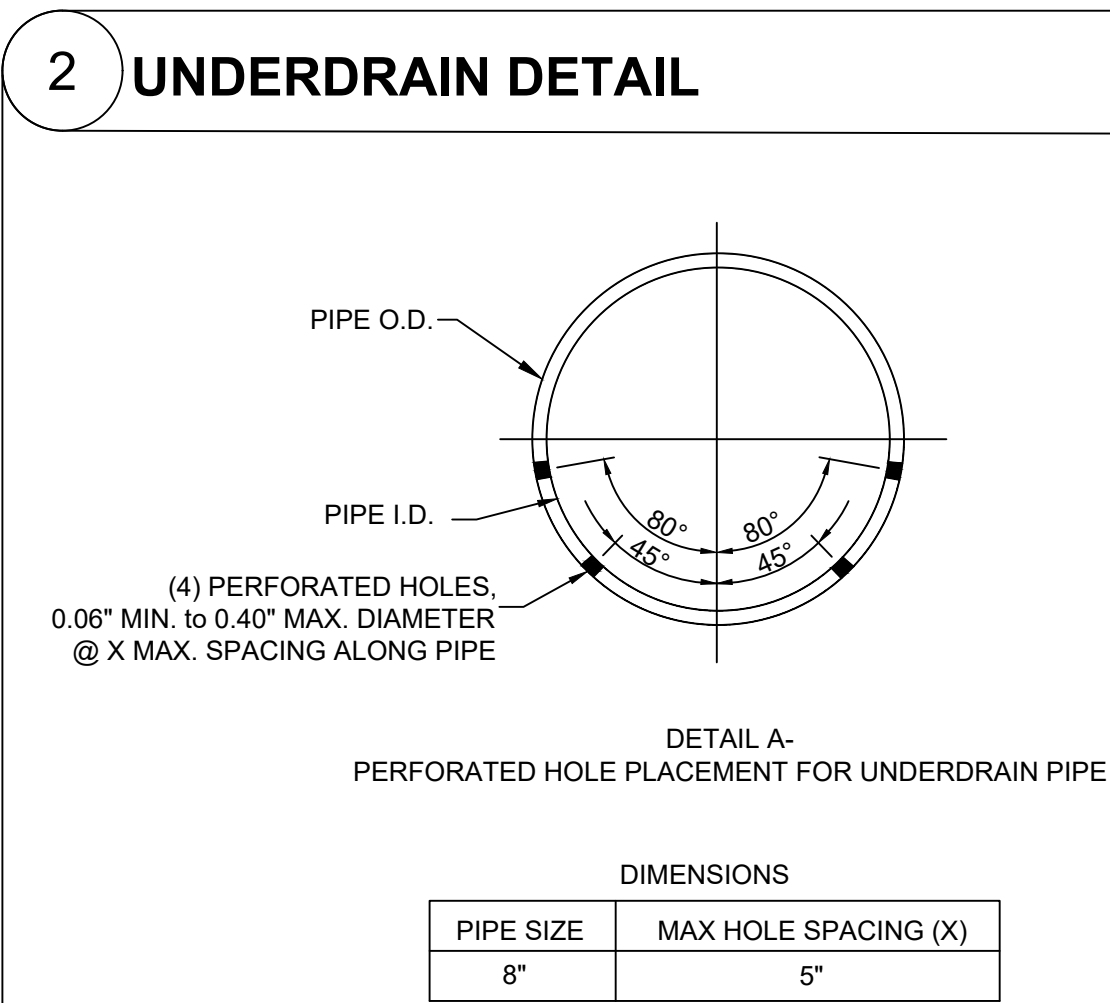
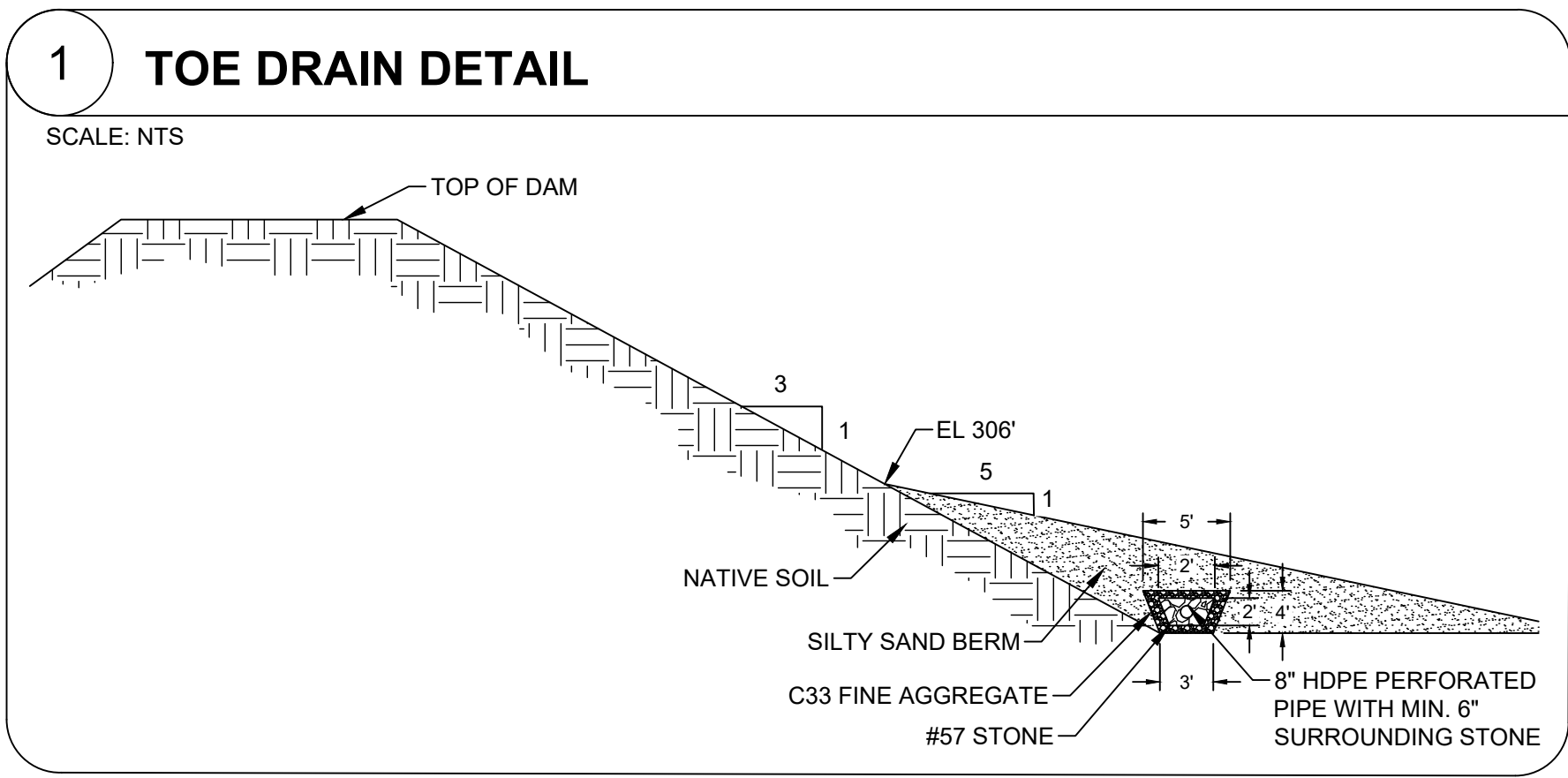
Project No.: T43655
Designed By: DO
Drawn By: DS
Checked By: DS
Sheet CD103

12 of 15 Sheets

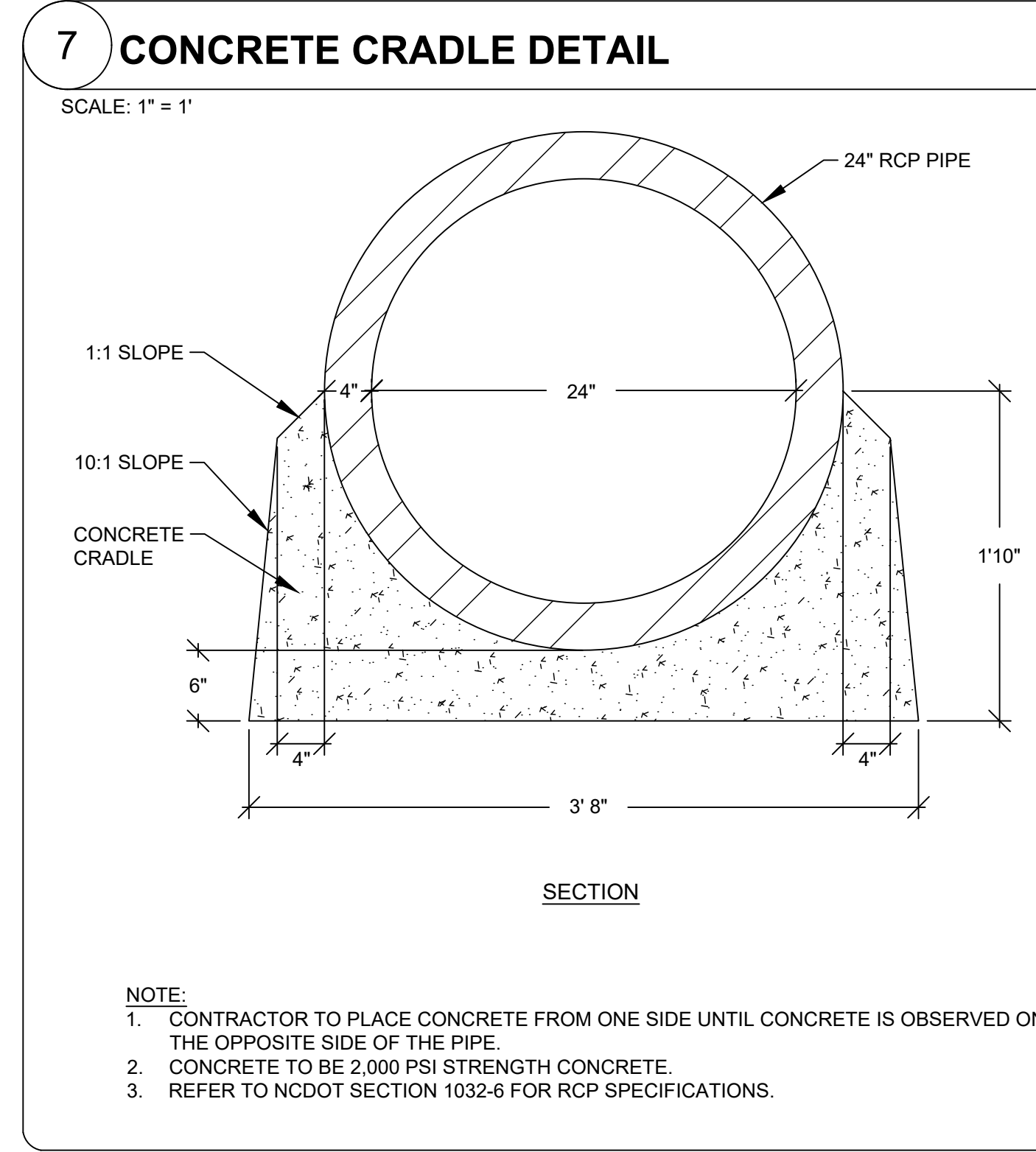
Bar Measures 1 inch



8/24/2026 1:15:56 PM - C:\USERS\BLAKE.CARY\ONEDRIVE - TETRA TECH, INC\PROJECTS\NORTH CAROLINA\LEGION POND DAM\CAD VERSIONS\08.24.26 VERSION - BIDDING REPORTSHEET SET\CD_CONSTRUCTION DETAILS.DWG - CARY, BLAKE



A GEOTECHNICAL ENGINEERS CERTIFICATION WILL BE REQUIRED FOR THE EMBANKMENT COMPACTION DURING AND AFTER THE INSTALLATION OF THE RISER STRUCTURE AND OUTLET PIPE THROUGH THE EMBANKMENT. SEE PAGE 110 OF THE TOCH ENGINEERING DESIGN MANUAL FOR THE DAM EMBANKMENT NOTES.



TETRA TECH

ENGINEERING, PC

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4000 Sancar Way, Suite 135

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Phone: (919) 485-8278

NC License C-2264

Tt

RELEASED FOR BIDDING

AUGUST 26, 2026

PROF. T. CARY, L.M.

SEAL

2023

ENGINEER

NO. 1

TOWN OF

CHAPEL

BY	JS								
DATE	8/26/26	REVISION							
MARK	X								

Legion Pond

ISSUED FOR PERMITTING

CONSTRUCTION DETAILS - 5

Project No.: T43655

Designed By: DO

Drawn By: WH

Checked By: DS

Sheet CD105

14 of 15 Sheets

Bar Measures 1 inch

Copyright: Tetra Tech

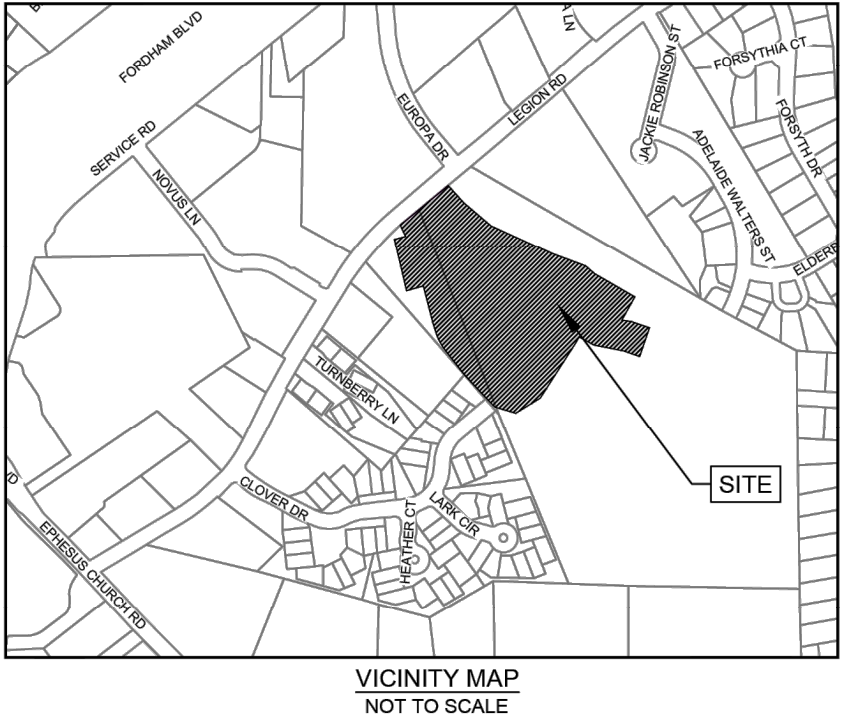


N/F
LIBERTY HEALTHCARE PROPERTIES OF ORANGE COUNTY LLC
PIN 9795562741
DB 6013 - PG 204
PB 59 - PG 23

N/F
LONG LEAF TRACE LLC
PIN 97909468154
DB 6874 - PG 1448
PB 130 - PG 35

N/F
CALINGAERT, PETER & ISABEL
PIN 9790458907
DB 4381 - PG 259
PB 33 - PG 107

N/F
MEADOWS OF CHAPEL HILL HOMEOWNERS ASSOC. INC.
PIN 9796550548
DB 457 - PG 246
PB 33 - PG 107



LEGEND
--- BOUNDARY LINE (NOT SURVEYED)
--- R/W --- RIGHT OF WAY (NOT SURVEYED)
--- L-O-D --- LIMITS OF DISTURBANCE (LOD)
--- LOD 50' OFFSET

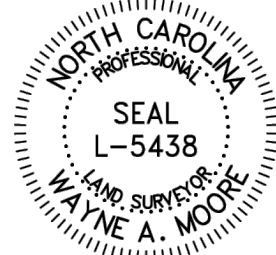
- CRITICAL ROOT ZONE (CRZ)
SEE NOTE 4
- EIP - EXISTING IRON PIPE
EIR - EXISTING IRON ROD
- TREES:
ASH
BIRCH
CEDAR
ELM
HICKBERRY
HICKORY
HORNBEAM
MAPLE
OAK
PINE
POPLAR
SERVICE BERRY
SWEETGUM
SILVERBELL
WAX MYRTLE
WILLOW OAK

ENGINEER NOTES

1. THIS SHEET HAS BEEN RESCALED TO FIT THE PAGE AND IS NOT TO SCALE.
2. VERTICAL DATUM: NAVD 88

I, Wayne A. Moore, certify that this map was drawn under my supervision from an actual survey made under my supervision; deed description recorded in Book 6282, Page 545; that the boundaries not surveyed are indicated as drawn from information in Book 6282 Page 545; this map meets the requirements of The Standards of Practice for Land Surveying in North Carolina (21 NCAC 56.1600); that the ratio of precision or positional accuracy as calculated is 1:10,000+; that the GNSS survey and the following information was used to perform the GNSS survey:

Class of survey: CLASS A
DB
Positional accuracy: RTK
Type of field procedure: MARCH 2026
Dates of survey: NAD 83 (2011)
Datum/Epoch: VRS
Published/Fixed-control use: Geoid 16
Geoid model: 0 99992336
Combined grid factor(s): US SURVEY FT
Units:



Witness my original signature, license number and seal this 1st day of APRIL, A.D., 2026.

Signed by:
Wayne A. Moore
Wayne A. Moore L-5438
D0397E4281BD4CD...

NOTES:

1. THE INTENT OF THIS SURVEY IS TO PROVIDE THE SIZE, LOCATION, AND TYPE OF ALL EXISTING RARE AND SPECIMEN TREES AS DEFINED IN SUBSECTION 5.7.6 (CHAPEL HILL LUMO - RARE AND SPECIMEN TREES) WITHIN FIFTY (50) FEET OF PROPOSED LAND DISTURBANCE.
2. TREE LOCATIONS, SIZES, AND SPECIES ARE APPROXIMATE AND WERE DETERMINED BY VISUAL OBSERVATION. THE SURVEYOR DOES NOT WARRANT OR GUARANTEE THE ACCURACY OF SPECIES IDENTIFICATION.
3. LIMITS OF DISTURBANCE SHOWN PER TETRA TECH LOD SHAPEFILE EMAILED ON 3-6-2026.
4. CRITICAL ROOT ZONE (CRZ) PER CHAPEL HILL LUMO 5.7. CRZ radius = diameter breast height (inches) x one (1) foot.
5. WHERE TREE IS INDICATED AS DOUBLE, TRIPLE, QUADRUPLE, THE CRZ HAS BEEN MULTIPLIED BY THE NUMBER OF BRANCHES.
6. THIS IS NOT A BOUNDARY SURVEY; PROPERTY IS SUBJECT TO ALL EASEMENTS, AGREEMENTS, AND RIGHTS-OF-WAY OF RECORD. THIS SURVEY WAS CONDUCTED WITHOUT THE BENEFITS OF A TITLE SEARCH.
7. ALL DISTANCES ARE HORIZONTAL GROUND MEASURED IN US SURVEY FEET (UNLESS OTHERWISE NOTED).
8. AREA COMPUTED BY COORDINATE METHOD.

TOWN OF CHAPEL HILL
PUBLIC WORKS
ENGINEERING AND DESIGN SERVICES
6850 MILLHOUSE ROAD
CHAPEL HILL, NC 27516



DATE:	04/15/2026
DESIGNER:	WAM
DRAWN BY:	WAM
CHECKED BY:	WAM
REV:	0

REV. #	REVISION DESCRIPTION	DATE
0		

LEGION POND
TREE PROTECTION AND
CRITICAL ROOT ZONE
1774 LEGION ROAD
CHAPEL HILL, NC 27517

PARCEL:

OWNER:

SHEET No.

TS101

