CONSTRUCTION PLANS

TRI POINTE HOMES

SERENITY AMENITY

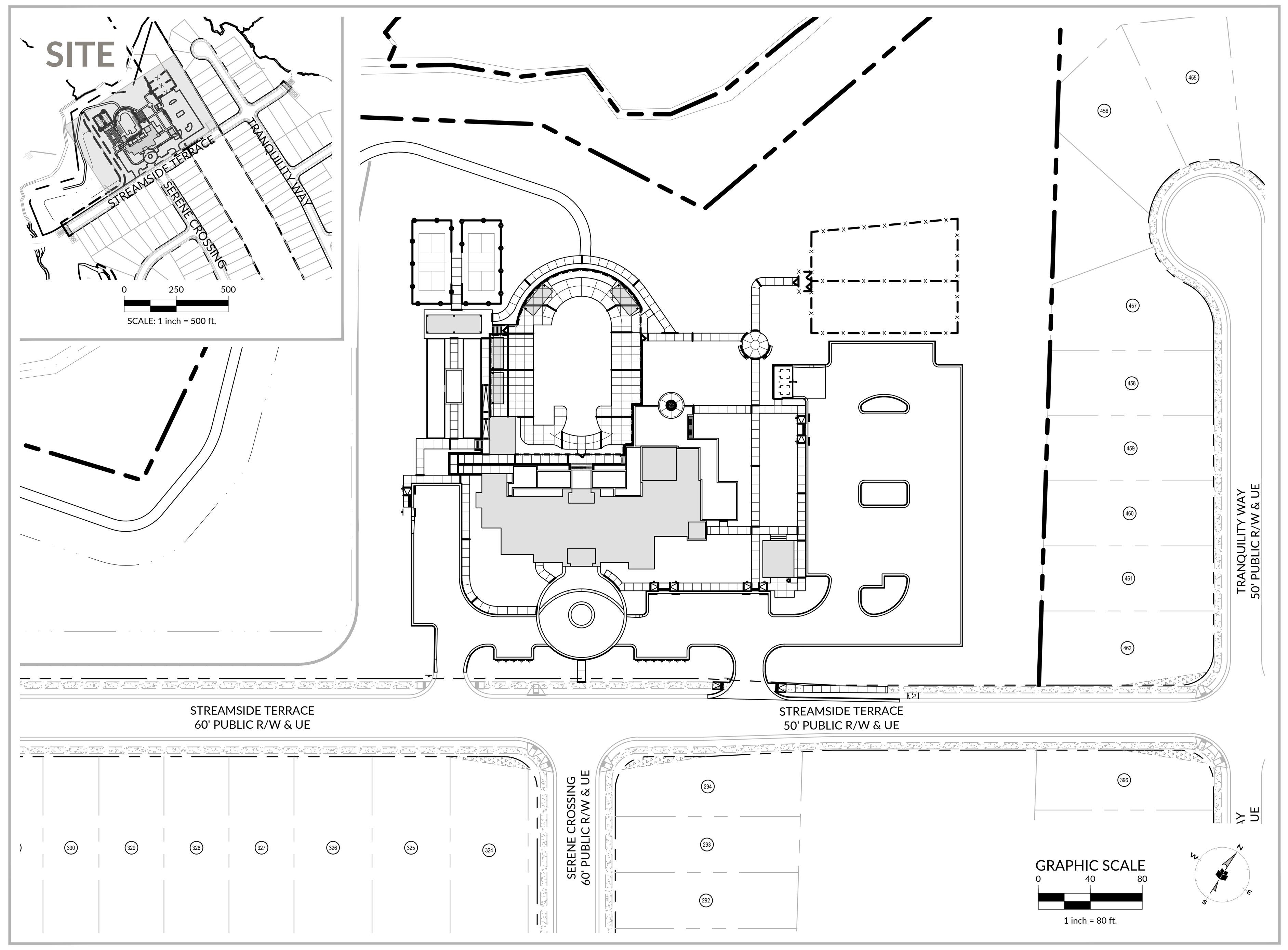
HARNETT COUNTY PROJECT #SITE2412-0002

STREAMSIDE TERRACE | HARNETT COUNTY, NORTH CAROLINA

MAY 23, 2025

SURVEY BENCHMARK

BENCHMARK IS LOCAL TO SITE.
SEE SHEET C0.01 FOR BENCHMARK INFORMATION.
VERTICAL DATUM BASED ON NAVD 88.



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OWNER	GREENFIELD SERENITY DEVO INC.
PARCEL PIN NO.	0645-84-9879.000
LOT SIZE (ACRES)	7.894
WATERSHED	HECTOR CREEK
EXISTING ZONING & LAND USE	RESIDENTIAL - RA-30
PROPOSED USE	RESIDENTIAL
SETBACKS:	
FRONT	35'
SIDE	10'
REAR	25'
PARKING REQUIRED	1 PER 4 PERSON AT MAX CAPACITY(368)=92 SPACES, INCLUDING 4 ADA (1 VAN) (MAX ALLOWED=101 SPACES)
PARKING PROVIDED	92 SPACES (INCLUDES 5 STANDARD ADA AND 3 VAN ADA SPACES)
	92 SPACES = 4 TOTAL HC SPACES (1 VAN)
IMPERVIOUS AREA	44,171 SF

THIS PROJECT IS WITHIN PHASE 6 OF THE SRENITY SUBDIVISION AND IS SUBJECT TO THE FOLLOWING:

BOA APPROVAL: 07/09/2018

CONDITIONS:

A. **Garage:** Each single-family house inside product families S2, S3 & S4 shall provide at least a standard two-car garage. All other single family houses shall provide at least a one-car garage.

B. **Landscaping:** Each house shall provide one of the following: A) minimum of one tree for S1 & S2 product, B) minimum of one tree and four shrubs for S3 & S4, or C) minimum of eight shrubs.

C. **Amenity:** Amenity plan shall include a minimum of a cabana, a community pool with appropriate deck space, children's "tot" lot, lawn areas or ball fields, gazebos, appropriate parking, and pocket open space areas as outlined on the approved Concept Plan.

D. **Mail:** Mail pick-up may be provided either by a centralized mail kiosk area, by kiosks placed in individual sections of the community, or a combination of both (as required by USPS).

E. **Setbacks:** Lot setbacks should be as follows:

a. **S1 Product:** minimum 20' front, 15' rear, 12' corner, and side yard options of 1) a zero-lot-line allowance with minimum 8' aggregate between units, or 2) 4' side setbacks.

b. **S2 Product:** minimum 20' front, 5' side, 20' rear & 12' corner.

c.**S3 Product:** minimum 20' front, 5' side, 20' rear & 12' corner.

d. **S4 Product:** minimum 20' front, 5' side, 20' rear & 12' corner.

F. **Lot Ownership:** All units will be sold as individual lots.

NOTE:

1. THIS DEVELOPMENT IS WITHIN ONE MILE OF A VOLUNTARY AGRICULTURAL DISTRICT.
2. HOMEOWNER'S ASSOCIATION WILL BE RESPONSIBLE FOR MAINTENANCE OF PARKING AREAS, DRIVE AISLES, MAIL KIOSK, EASEMENTS/STORMWATER DEVICES, AND ALL LANDSCAPE BUFFERING.

HARNETT COUNTY REGIONAL WATER NOTES:

1. **WATERLINE CONSTRUCTION AND TIE-IN NEED TO BE COORDINATED AND INSPECTED BY HRW CONSTRUCTION INSPECTOR CHAD EVERETT.**
2. **THE POOL DRAIN SYSTEM AND FILTER BACKWASH SHOULD BE DE-CHLORINATED AND DISCHARGED TO THE STORM DRAIN SYSTEM**

As the owner of record, I hereby formally consent to the proposed development shown on this site plan and all regulations and requirements of Harnett County ordinances.

DocuSigned by:
Kristi Dillard
933CCAA57D4546E...
5/27/2025
Date Owner Signature

Approved: SITE2412-0002

Jay Sikes, Mgr of Planning Services

CONTACT LIST:

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Developer
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5440 Wade Park Blvd Suite 400
Raleigh, NC 27607

811
Know what's below. Call before you dig.

NORTH CAROLINA PROFESSIONAL SEAL 046230 ENGINEER DAVID L. STARKEL

Signed by:
David Starkel
5/27/2025

PREPARED BY:

WithersRavenel
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DEVELOPER:

Tri Pointe Homes
5440 Wade Park Blvd Suite 400
Raleigh, NC 27607
PHONE #: 919-300-4914
ATTENTION: Kristi Dillard

CONSTRUCTION PLANS
Tri Pointe Homes
Serenity Amenity
WR PROJECT NO. 23-1177
HARNETT COUNTY PROJ. NO: SITE2412-0002

INITIAL PLAN DATE: 05/23/2025

SURVEY NOTES:

1. THE FOLLOWING INFORMATION WAS USED FOR THE EXISTING SURVEY:
   a. COORDINATE SYSTEM: NORTH CAROLINA STATE PLANE FOOT
   b. PROJECT HORIZONTAL DATUM: NAD 83/2011
   c. VERTICAL DATUM: NAVD 88
   d. COORDINATE UNITS: US SURVEY FEET
   e. VERTICAL UNITS: US SURVEY FEET
2. PROPERTY BOUNDARY SHOWN AS PROVIDED BY TIMMONS GROUP, DATED MARCH 8, 2019 & JUNE 6, 2019.
3. TOPOGRAPHIC SURVEY SHOWN AS PROVIDED BY TIMMONS GROUP, DATED SEPTEMBER 10, 2018.
4. WETLANDS, STREAMS, AND RIPARIAN BUFFERS SHOWN AS PROVIDED BY CAROLINA ECOSYSTEMS, INC., DATED FEBRUARY 2018, AND FIELD VERIFIED PER TIMMONS GROUP.
5. PROPERTY DOES NOT FALL WITHIN FEMA FLOODPLAIN PER FEMA FIRM 3720064500J, EFFECTIVE DATE OCTOBER 3, 2006.
6. NO DETERMINATION HAS BEEN MADE BY THE SURVEYOR AS TO THE FOLLOWING: UNDERGROUND STORAGE FACILITIES, UNDERGROUND UTILITIES, GRAVES, CEMETERIES, BURIAL GROUNDS, HAZARDOUS WASTE DEPOSITS OR MATERIALS.
7. EXISTING UNDERGROUND UTILITIES ARE SHOWN BASED ON THE DESIGN FILES FOR THE SUBDIVISION. THE CONTRACTOR IS TO VERIFY THE UTILITY LOCATIONS PRIOR TO STARTING CONSTRUCTION.
8. SURVEY CONTROL POINTS PROVIDED IN NC STATE PLANE COORDINATES. ALL PROPOSED COORDINATES ARE GROUND COORDINATES. THE CONTRACTOR'S SURVEYOR IS RESPONSIBLE FOR ANY CONVERSIONS NEEDED FOR THE STAKEOUT OF THE PROPOSED GROUND COORDINATES SHOWN.
9. CONTRACTOR SHALL BE RESPONSIBLE FOR ESTABLISHING ADDITIONAL CONTROLS THAT MAY BE NEEDED THROUGHOUT THE PROJECT.

GENERAL NOTES:

1. WORK ON THIS PROJECT SHALL CONFORM TO THE LATEST NORTH CAROLINA DEPARTMENT OF TRANSPORTATION (NCDOT) STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES, THE NORTH CAROLINA EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL, HARNETT COUNTY STANDARDS AND SPECIFICATIONS, GEOTECHNICAL REPORTS, AND ANY OTHER APPLICABLE DESIGN STANDARDS AT THE TIME OF PLAN APPROVAL. IN THE EVENT OF CONFLICT BETWEEN ANY OF THESE STANDARDS, SPECIFICATIONS OR PLANS, THE MOST STRINGENT SHALL GOVERN, UNLESS OTHERWISE NOTED IN THESE PLANS.
2. THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR HAVING VISITED THE SITE AND HAVING FAMILIARIZED THEMSELVES WITH THE EXISTING CONDITIONS PRIOR TO COMMENCING WORK.
3. ANY DISCREPANCIES, INCONSISTENCIES OR AMBIGUITIES FOUND BETWEEN THE DRAWINGS, SPECIFICATIONS, AND SITE CONDITIONS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER IN WRITING. WORK DONE BY THE CONTRACTOR AFTER THE DISCOVERY OF SUCH DISCREPANCIES, INCONSISTENCIES, OR AMBIGUITIES WITHOUT WRITTEN CLARIFICATION FROM THE ENGINEER AND APPROVAL BY OWNER SHALL BE DONE AT THE CONTRACTOR'S RISK AND EXPENSE.
4. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL JOBSITE SAFETY DURING ALL PHASES OF CONSTRUCTION. ALL WORK SHALL COMPLY WITH MUNICIPAL, COUNTY AND STATE REGULATIONS, AND OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS. CONTRACTOR SHALL COMPLY WITH THE LATEST REVISIONS AND INTERPRETATIONS OF THE DEPARTMENT OF LABOR SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION PROMULGATED UNDER THE OSHA ACT.
5. THE CONTRACTOR SHALL CALL “811” FOR PROPER IDENTIFICATION OF EXISTING UTILITIES AT LEAST 72 HOURS PRIOR TO ANY DEMOLITION, GRADING, OR CONSTRUCTION ACTIVITY.
6. THE CONTRACTOR IS RESPONSIBLE FOR HORIZONTALLY AND VERTICALLY LOCATING, AND SUBSEQUENTLY PROTECTING, ALL PUBLIC AND PRIVATE UTILITIES (SHOWN OR NOT SHOWN) THAT LIE IN OR ADJACENT TO THE PROJECT SITE. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK AND AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THE UNDERGROUND UTILITIES. ALL UTILITIES AND FACILITIES ARE NOT NECESSARILY SHOWN. HAND DIGGING TO PROTECT UTILITIES FROM DAMAGE MAY BE REQUIRED.
7. ANY UTILITIES AND EXISTING SITE ELEMENTS (I.E. SIGNS, ROADWAYS, PATHS, STRUCTURES, NATURAL VEGETATION, OTHER EXISTING PROPERTY ITEMS, ETC.) DAMAGED DURING THE PROJECT BY THE CONTRACTOR'S WORKERS OR EQUIPMENT SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER, UTILITY OWNER, REGULATORY AGENCY, AND ENGINEER.
8. CONTRACTOR SHALL MAKE EVERY EFFORT TO PRESERVE PROPERTY IRONS, MONUMENTS, OTHER PERMANENT POINTS AND LINES OF REFERENCE AND CONSTRUCTION STAKES. A NORTH CAROLINA LICENSED LAND SURVEYOR SHALL REPLACE, AT THE CONTRACTOR'S EXPENSE, PROPERTY IRONS, MONUMENTS, OTHER PERMANENT POINTS AND LINES OF REFERENCE AND CONSTRUCTION STAKES DESTROYED BY THE CONTRACTOR.
9. CONTRACTOR SHALL PLAN AND CONSTRUCT WORK IN ORDER TO CAUSE MINIMUM DISTURBANCE TO THE OWNER, ADJACENT PROPERTIES AND THE PUBLIC. CONTRACTOR SHALL COORDINATE WITH AND OBTAIN APPROVAL FROM STATE AND LOCAL REGULATORY AGENCIES ON TRAFFIC CONTROL PLANS.
10. ADJACENT STREETS AND SIDEWALKS SHALL BE MAINTAINED IN AN UNOBSTRUCTED, CLEAN CONDITION, MUD AND DUST-FREE.
11. THE CONTRACTOR SHALL HAVE A COMPLETE SET OF CONTRACT DOCUMENTS AS WELL AS ALL PERMIT APPROVALS AND EXECUTED EASEMENTS ON THE JOB SITE AT ALL TIMES.
12. CONSTRUCTION STAKEOUT FOR THIS PROJECT MAY BE PERFORMED BY THE CONTRACTOR, USING A DIGITAL (CADD) FILE PROVIDED BY THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES FOUND BETWEEN THE DIGITAL FILE AND THE CRITICAL STAKING DIMENSIONS SHOWN ON THIS PLAN (I.E. PAVEMENT WIDTHS, CURB RADII, BUILDING SETBACKS, BUILDING FOOTPRINTS, ETC.). ANY MODIFICATIONS MADE BY OTHERS TO THE DIGITAL FILE PROVIDED BY THE ENGINEER SHALL RENDER IT VOID.
13. WETLANDS SHOWN WILL HAVE DEED RESTRICTION AND SHALL NOT BE CLEARED, DRAINED, OR OTHERWISE DISTURBED UNLESS SPECIFICALLY PERMITTED BY THE UNITED STATES ARMY CORPS OF ENGINEERS (USACE) OR NC DIVISION OF COASTAL MANAGEMENT (DCM) OR NC DIVISION OF WATER RESOURCES (DWR), AS APPLICABLE.
14. ANY WETLANDS THAT ARE TEMPORARILY IMPACTED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RETURNED TO PRE-CONSTRUCTION GRADE AND SEEDED WITH A WETLAND SEED MIX IN ACCORDANCE WITH THE SEDIMENT & EROSION CONTROL PLAN.
15. CONTRACTOR SHALL FURNISH AND INSTALL ALL PAVEMENT MARKINGS FOR FIRE LANES, PARKING STALLS, ACCESSIBLE PARKING SYMBOLS, AND MISCELLANEOUS STRIPING WITHIN PARKING LOT AND AROUND BUILDINGS AS SHOWN ON THE PLANS. ALL PAVEMENT MARKING MATERIALS SHALL ADHERE TO NCDOT STANDARDS, UNLESS NOTED OTHERWISE.
16. ACCESSIBLE ROUTES AND PARKING AREAS MUST BE PROVIDED IN ACCORDANCE WITH THE CURRENT NORTH CAROLINA BUILDING CODE AND ADA STANDARDS FOR ACCESSIBLE DESIGN.
17. WHERE PROPOSED CURB AND GUTTER TIES TO EXISTING CURB OR CURB AND GUTTER, A TRANSITION OF 10' SHALL BE MADE TO CONFORM TO THE EXISTING HEIGHTS AND SHAPES, UNLESS OTHERWISE SHOWN ON THE PLANS.
18. ALL EXPANSION CURB JOINTS SHALL EXTEND THROUGH THE CURB. MINIMUM LENGTH OF OFFSET JOINTS AT RADIUS POINTS IS 1.5', UNLESS OTHERWISE SHOWN ON PLANS. ALL JOINTS SHALL BE SEALED WITH JOINT SEALANT.

DEMOLITION NOTES:

1. CONTRACTOR SHALL COORDINATE WITH THE OWNER AND UTILITY OWNER TO PROPERLY MAINTAIN, REMOVE OR RELOCATE EXISTING SERVICE CONNECTIONS WHEN NECESSARY.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING SURROUNDING NEIGHBORS ABOUT ANY POTENTIAL INTERRUPTION TO SERVICE OF ANY KIND.
3. EXISTING UTILITIES NOT INTENDED FOR DEMOLITION SHALL BE MAINTAINED, PROTECTED AND UNDISTURBED DURING CONSTRUCTION ACTIVITIES.
4. THE CONTRACTOR SHALL PROTECT ALL ADJACENT PROPERTY, STRUCTURES AND UTILITIES. DAMAGE TO PROPERTIES OF OTHERS DUE TO THE CONTRACTOR'S ACTIVITIES SHALL BE AT THE CONTRACTOR'S EXPENSE AND SHALL BE REPLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE OWNER.
5. ALL MATERIAL CLEARED OR DEMOLISHED BY THE CONTRACTOR IN ORDER TO CONSTRUCT THE WORK SHALL BECOME THE PROPERTY OF THE CONTRACTOR, UNLESS OTHERWISE NOTED AND SHALL BE PROPERLY DISPOSED OF OFF-SITE.
6. SAW CUTS OF EXISTING PAVEMENTS, CURBS, GUTTERS AND SIDEWALKS SHALL PRODUCE A NEAT VERTICAL EDGE.
7. ALL DEMOLITION WORK SHALL BE DONE IN STRICT ACCORDANCE WITH AUTHORITIES HAVING JURISDICTION.
8. ALL PERMITS REQUIRED FOR THE DEMOLITION WORK SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN PRIOR TO THE START OF DEMOLITION ACTIVITIES.

STORM DRAINAGE NOTES:

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT HARNETT COUNTY STANDARDS AND NCDOT STANDARD SPECIFICATIONS AND DETAILS.
2. ALL STORM DRAINAGE FRAMES, GRATES, AND HOODS SHALL BE STAMPED WITH “DRAINS TO RIVER” IN ACCORDANCE WITH HARNETT COUNTY AND NCDOT STANDARDS.
3. RIM ELEVATION GIVEN FOR CATCH BASIN (CB) IS TOP OF CURB, YARD INLET (YI) IS OPENING INVERT FOR SLAB TOP, DROP INLET (DI) IS TOP OF GRATE AND JUNCTION BOX (JB) IS TOP OF RIM.
4. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING, BUT NOT LIMITED TO THE HORIZONTAL AND VERTICAL LOCATION OF STRUCTURES AND UTILITIES CROSSING THE STORM SEWER PIPE.
5. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE STORM SEWER DRAINAGE SYSTEM.
6. ALL STORM SEWER PIPE SHALL BE MINIMUM CLASS III REINFORCED CONCRETE PIPE (RCP), UNLESS OTHERWISE NOTED. IF HDPE PIPE IS SPECIFIED, PIPE SHALL BE TYPE S WATERTIGHT (WT) CONFORMING TO AASHTO M252/M294
7. IF THERE ARE DISCREPANCIES BETWEEN THE PLAN AND FIELD CONDITIONS RELATED TO WHERE THE PROPOSED STORM SEWER PIPING TIES TO EXISTING STRUCTURES, PIPES, SWALES, ETC., THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER. AFTER NOTIFICATION TO ENGINEER AND OWNER, THE CONTRACTOR SHALL PERFORM THE AGREED UPON FIELD ADJUSTMENTS TO MATCH THE LOCATIONS OF THESE EXISTING FEATURES.
8. ALL STORM SEWER PIPE SHALL HAVE A MINIMUM COVER OF 2 FEET FROM FINISHED SUBGRADE TO THE PIPE CROWN IN TRAFFIC BEARING AREAS, UNLESS APPROVED BY AUTHORITIES HAVING JURISDICTION.
9. ALL STORM SEWER PIPE SHALL HAVE A MINIMUM COVER OF 1 FOOT TO THE PIPE CROWN IN NON-TRAFFIC BEARING AREAS.
10. THE STORM PIPE LENGTHS AS SHOWN ON THE DRAWINGS REPRESENTS THE DISTANCE FROM CENTER TO CENTER OF THE RESPECTIVE STRUCTURES.
11. STORM SEWER UTILITY STRUCTURE TABLES ARE AVAILABLE UPON REQUEST.

GRADING NOTES:

1. ALL AREAS SHALL BE GRADED FOR POSITIVE DRAINAGE, AND AS SHOWN ON THESE PLANS. THE CONTRACTOR SHALL MAINTAIN ADEQUATE SITE DRAINAGE DURING ALL PHASES OF CONSTRUCTION. IN ADDITION TO THE MEASURES SHOWN IN THESE PLANS, THE CONTRACTOR SHALL USE INTERIM DIVERSION DITCHES, BERMS, OR OTHER METHODS AS REQUIRED TO DIRECT DRAINAGE AS SHOWN ON THESE PLANS AND TO PREVENT SILT AND CONSTRUCTION DEBRIS FROM FLOWING ONTO ADJACENT PROPERTIES, ROADWAYS, AND ENVIRONMENTALLY SENSITIVE AREAS SUCH AS BUFFERS AND WETLANDS. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER AND OWNER IN WRITING OF ANY DISCREPANCIES OR CONCERNS.
2. ALL SOILS USED FOR BACKFILL SHALL BE FREE OF UNSATISFACTORY MATERIALS INCLUDING ROCK OR GRAVEL LARGER THAN 3 INCHES IN ANY DIMENSION, DEBRIS, WASTE, FROZEN MATERIALS, VEGETATION AND OTHER DELETERIOUS MATTER. ROCK OR GRAVEL LARGER THAN 2 INCHES IN ANY DIMENSION SHALL NOT BE PLACED IN THE IN THE FINAL LIFT (MINIMUM OF 6 INCHES). UNSATISFACTORY MATERIALS ALSO INCLUDE MAN-MADE FILLS AND REFUSE DEBRIS DERIVED FROM ANY SOURCE. REFER TO FINAL GEOTECHNICAL REPORT FOR ANY SPECIAL FILL MATERIAL REQUIRED FOR THIS PROJECT, IF ANY. THE CONTRACTOR SHALL CONSULT WITH THE SITE GEOTECHNICAL ENGINEER PRIOR TO BACKFILL PLACEMENT TO VERIFY BACKFILL MEETS PROJECT REQUIREMENTS.
3. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING ALL SOIL TESTING IS PERFORMED AND THE RESULTS FORWARDED TO THE ENGINEER AND OWNER.
4. MATERIALS USED TO CONSTRUCT EMBANKMENTS FOR ANY PURPOSE, BACKFILL AROUND DRAINAGE STRUCTURES, OR IN UTILITY TRENCHES FOR ANY OTHER DEPRESSION REQUIRING FILL OR BACKFILL SHALL MEET THE REQUIREMENTS OF THE PROJECT GEOTECHNICAL ENGINEER RECOMMENDATIONS.
5. THE CONTRACTOR SHALL, PRIOR TO ANY OPERATIONS INVOLVING FILLING OR BACKFILLING, SUBMIT TO THE OWNER AND PROJECT GEOTECHNICAL ENGINEER THE RESULTS OF THE PROCTOR TEST TOGETHER WITH A CERTIFICATION THAT THE SOIL TESTED IS REPRESENTATIVE OF THE MATERIALS TO BE USED ON THE PROJECT. TESTS SHALL BE CONDUCTED BY A NORTH CAROLINA CERTIFIED MATERIALS TESTING LABORATORY AND CERTIFICATIONS MADE BY A LICENSED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA REPRESENTING THE LABORATORY.
6. ALL PAVEMENT SUBGRADES SHALL BE SCARIFIED TO A DEPTH OF 8 INCHES AND COMPACTED TO A MINIMUM DENSITY OF 100 PERCENT OF ASTM D1557 DENSITY AT OPTIMUM MOISTURE CONTENT UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS OR AS DIRECTED BY THE GEOTECHNICAL ENGINEER.
7. RETAINING SYSTEMS PROVIDING A CUMULATIVE VERTICAL RELIEF GREATER THAN FIVE FEET (5') IN HEIGHT WITHIN A HORIZONTAL SEPARATION DISTANCE OF 50 FEET OR LESS, INCLUDING RETAINING WALLS OR MECHANICALLY STABILIZED EARTH WALLS, SHALL BE DESIGNED UNDER THE RESPONSIBLE CHARGE OF A REGISTERED DESIGN PROFESSIONAL. RETAINING WALL SYSTEMS SHALL MEET THE REQUIREMENTS OF THE NC BUILDING CODE AND LOCAL JURISDICTION.
8. CONTOURS AND GUTTER GRADIENTS ARE APPROXIMATE. SPOT ELEVATIONS ARE TO BE USED IN CASE OF DISCREPANCY.
9. CONTRACTOR SHALL OBTAIN ALL PERMITS AS REQUIRED FOR BLASTING ROCK IF BLASTING ROCK IS REQUIRED. CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR COMPLYING WITH ALL REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION RELATED TO BLASTING AND SAFETY.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DEWATERING NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN ON THE PLANS. DEWATERING SHALL BE INCIDENTAL TO GRADING OPERATIONS.
11. THE FRAMES AND COVERS OF ALL EXISTING AND PROPOSED DRAINAGE, SANITARY SEWER, WATER MAIN, GAS AND ELECTRIC UTILITY STRUCTURES SHALL BE ADJUSTED TO MATCH PROPOSED FINISHED ELEVATIONS AND SLOPES UNLESS OTHERWISE SHOWN ON THE PLANS.
12. BEFORE ANY EARTHWORK COMMENCES, THE CONTRACTOR SHALL STAKE OUT AND MARK THE LIMITS OF CONSTRUCTION AND OTHER ITEMS ESTABLISHED IN THE PLANS. THE CONTRACTOR SHALL PROVIDE ALL NECESSARY SURVEYING FOR LINE AND GRADE CONTROL POINTS RELATED TO EARTHWORK.
13. THE PLACEMENT OF ANY FILL MATERIAL MUST BE CONDUCTED UNDER THE OBSERVATION OF A QUALIFIED LICENSED GEOTECHNICAL ENGINEER. UPON COMPLETION OF THE EARTHWORK ACTIVITIES THE OWNER AND JURISDICTION MUST BE PROVIDED WITH A FINAL GRADING REPORT THAT INCLUDES THE CORRESPONDING COMPACTION TEST RESULTS AND CERTIFIES THE TYPE OF FILL MATERIAL AND ITS PROPER PLACEMENT.
14. REFERENCE STRUCTURAL DRAWINGS, SPECIFICATIONS, GEOTEHCNICAL REPORT, AND/OR DIRECTIVES PROVIDED BY THE PROJECT GEOTECHNICAL ENGINEER FOR BUILDING PAD AND PAVING SUBGRADE INFORMATION.

GENERAL LANDSCAPE NOTES:

1. THE CONTRACTOR SHALL TAKE PROPER PRECAUTIONS NOT TO DAMAGE EXISTING PLANTS, FACILITIES AND STRUCTURES THAT ARE TO REMAIN. THE CONTRACTOR SHALL RESTORE DISTURBED AREAS TO THEIR ORIGINAL CONDITION TO THE SATISFACTION OF THE LANDSCAPE ARCHITECT AND OWNER.
2. UTILITIES SHOWN ON THE LANDSCAPE DRAWINGS ARE FOR REFERENCE ONLY. SEE UTILITY DRAWINGS FOR EXISTING AND PROPOSED UTILITY LOCATIONS. SEE UTILITY NOTES FOR ADDITIONAL INFORMATION.
3. NO CHANGES TO ANY ASPECT OF APPROVED PLAN, INCLUDING BUT NOT LIMITED TO LANDSCAPING, GRADING, BUILDING ELEVATIONS, LIGHTING, OR UTILITIES SHALL BE MADE WITHOUT THE APPROVAL OF THE GOVERNING MUNICIPALITY, ENGINEER, LANDSCAPE ARCHITECT AND OWNER.
4. ALL PLANTS PROVIDED BY THE CONTRACTOR SHALL MEET OR SURPASS THE SPECIFICATIONS GIVEN IN THE PLANT TABLE AND CONFORM TO THE AMERICAN STANDARD OF NURSERY STOCK, ANSI Z601-1973 IN REGARD TO SIZING, GROWING AND BALLED AND BURLAPPED (B&B) SPECIFICATIONS. PLANTS SHALL BE FULL AND HEAVY, AND IN HEALTHY CONDITION AT THE TIME OF PLANTING. LANDSCAPE ARCHITECT SHALL REJECT ANY PLANT NOT MEETING THESE GUIDELINES AND REQUIRE REPLACEMENT.
5. ALL PLANTS ARE TO BE FULLY WARRANTED (INCLUDING LABOR AND MATERIALS) FOR A PERIOD OF NOT LESS THAN ONE (1) YEAR FROM FINAL ACCEPTANCE.
6. PLANTING SHALL BE INSTALLED DURING THE IDEAL SEASON BASED ON THE TYPE OF PLANT.
7. ALL PLANTS THAT ARE UNABLE TO BE IMMEDIATELY PLANTED SHALL BE STORED IN A PROTECTED AREA OUT OF DIRECT SUN AND WIND. PLANTS SHALL BE EVENLY AND CONSISTENTLY WATERED, AS NEEDED, TO PREVENT DRYING OF ROOTS. ROOT BALLS OF B&B STOCK SHALL BE COVERED WITH AT LEAST 4 INCHES OF HARDWOOD MULCH TO MAINTAIN MOISTURE IN ROOTS.
8. THE CONTRACTOR SHALL VERIFY ALL PLANT QUANTITIES SHOWN ON PLANS AND CLARIFY ANY DISCREPANCIES WITH LANDSCAPE ARCHITECT PRIOR TO PURCHASING PLANTS. CONTRACTOR SHALL TAG ALL TREES (AS DESIGNATED IN THE MASTER PLANT LIST) AT THE NURSERY FOR APPROVAL BY THE LANDSCAPE ARCHITECT PRIOR TO PURCHASING PLANTS.
9. LANDSCAPE ARCHITECT SHALL BE NOTIFIED IN WRITING OF ANY PROPOSED PLANT SUBSTITUTIONS BY THE CONTRACTOR. NO SUBSTITUTIONS SHALL BE MADE UNDER ANY CIRCUMSTANCES WITHOUT PRIOR APPROVAL BY THE LANDSCAPE ARCHITECT OR OWNER'S REPRESENTATIVE.
10. ALL PLANTS AND PLANTING BEDS ARE TO BE LOCATED BY SCALED DIMENSIONS FROM BUILDINGS, CURBS, PAVEMENTS, ETC. SPECIFIC ATTENTION SHALL BE GIVEN TO ENSURE THAT PLANTS INDIVIDUALLY SHOWN ON THE PLAN ARE ACCURATELY LOCATED. LOCATION OF ALL PLANTS SHALL BE REVIEWED IN THE FIELD BY THE LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. CONTRACTOR SHALL PROVIDE 48 HOURS NOTICE FOR REVIEW.
11. NO PLANTINGS SHALL BE REQUIRED WHEN A PRESERVED WETLAND OR REQUIRED RIPARIAN BUFFER EXISTS WITHIN A REQUIRED BUFFER YARD.
12. EXISTING SIGNIFICANT VEGETATION THAT IS PRESERVED WITHIN ANY REQUIRED BUFFER YARD SHALL BE CREDITED TOWARD STANDARDS FOR THE TYPE OF BUFFER REQUIRED AT THE TIME OF MUNICIPAL APPROVALS. IF EXISTING VEGETATION DOES NOT FULLY MEET THE STANDARDS FOR THE TYPE OF BUFFER REQUIRED, SUPPLEMENTAL VEGETATION AND/OR SITE FEATURES (INCLUDING FENCES) SHALL BE PLANTED OR INSTALLED WITHIN THE REQUIRED BUFFER AREA TO MEET MINIMUM STANDARDS.
13. A PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL NEW PLANTING BEDS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND ALLOWED TO DISSIPATE PRIOR TO INSTALLATION OF ANY PLANT MATERIAL.
14. ALL LANDSCAPE AREAS ARE TO BE GRADED FOR POSITIVE DRAINAGE AND TO ENSURE NO STANDING WATER. SEE GRADING PLAN FOR SPECIFIC GRADING INFORMATION. CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT AND/OR ENGINEER OF ANY GRADING DISCREPANCIES OR CONCERNS.
15. ESTABLISH AND MAINTAIN TOP OF GRADE BELOW ADJACENT CURBS, WALKWAYS AND OTHER HARDSCAPE AREAS TO ALLOW FOR INSTALLATION OF MULCH.
16. ALL PLANTING BEDS ARE TO BE COVERED WITH MULCH TO A MINIMUM DEPTH OF 2-3 INCHES, UNLESS INDICATED OTHERWISE. MULCH SHALL BE AS SELECTED BY THE LANDSCAPE ARCHITECT. CONTRACTOR SHALL SUBMIT A SAMPLE FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO PURCHASE AND DELIVERY TO PROJECT SITE.
17. FINISH OFF 2-4 FOOT CLEAR ZONE AROUND TREES WITH A 2-3-INCH LAYER OF MULCH, BUT DO NOT PLACE UP AGAINST OR MOUND AROUND THE ROOT FLARE.
18. MIXED GROUNDCOVER AND PLANTS SPECIFIED FOR MASS PLANTINGS SHALL BE PLANTED IN ODD GROUPINGS AND LOCATED AS REQUIRED TO PROVIDE A GENERAL MIXING OF SPECIES. DO NOT PLANT IN ROWS OR REPETITIVE PATTERNS UNLESS OTHERWISE DIRECTED.
19. ALL TREES ADJACENT TO PEDESTRIAN WALKWAYS AND IN SIGHT TRIANGLES SHALL BE UNDER-TRIMMED SUFFICIENTLY TO ALLOW CLEAR SIGHT AND PEDESTRIAN ACCESS UP TO 6 FEET ABOVE SIDEWALK ELEVATION. ALL PRUNING SHALL BE PERFORMED BY A CERTIFIED ARBORIST AND ADHERE TO THE ANSI A300 PRUNING STANDARD. PRUNING CUTS ARE TO BE DELIBERATE AND TARGETED ONLY TO THE NECESSARY BRANCHES IN ORDER TO SATISFY SIGHT AND CLEARANCE REQUIREMENTS WHILE MAINTAINING THE INTEGRITY OF THE TREES.
20. THE SITE SHALL BE STABILIZED PRIOR TO THE ISSUANCE OF A CERTIFICATE OF OCCUPANCY (CO).
21. CONTRACTOR IS RESPONSIBLE FOR FULLY MAINTAINING ALL PLANTING (INCLUDING, BUT NOT LIMITED TO WATERING, MULCHING, SPRAYING, FERTILIZING, ETC.) OF THE PLANTING AREAS UNTIL FINAL ACCEPTANCE.
22. ANY PLANT WHICH DIES, TURNS BROWN OR DEFOLIATES PRIOR TO FINAL ACCEPTANCE OF THE WORK SHALL BE PROMPTLY REMOVED FROM THE SITE AND REPLACED WITH MATERIAL OF THE SAME SPECIES, IN ACCORDANCE WITH THE APPROPRIATE PLANTING SEASON; QUANTITY AND SIZE TO MEET PLAN SPECIFICATIONS.

TREE PROTECTION NOTES:

1. ALL TREES THAT ARE TO REMAIN, WITHIN OR DIRECTLY ADJACENT TO THE LIMITS OF WORK, MUST BE PROTECTED WITH TREE PROTECTION FENCE AS INDICATED ON THE PLANS TO THE EXTENT OF THE TREE BOX OR THE DRIP LINE IN A PLANTING STRIP. THE DRIP LINE IS DEFINED AS THE GROUND AREA UNDER THE CANOPY OF THE TREE. FENCING IS TO BE INSTALLED PRIOR TO CONSTRUCTION, MAINTAINED THROUGHOUT, AND REMOVED ONLY AT THE END OF THE PROJECT.
2. NONE OF THE FOLLOWING SHALL OCCUR WITHIN THE ROOT ZONE OF A TREE WITHOUT PERMISSION OF LANDSCAPE ARCHITECT OR PROJECT ARBORIST: ALTERATION OR DISTURBANCE TO EXISTING GRADE; STAGING OR STORAGE OF CONSTRUCTION MATERIALS, EQUIPMENT USE, SOIL OR DEBRIS REMOVAL OR STOCKPILING; TRENCHING; OR DISPOSAL OF ANY LIQUIDS.
3. APPROVED EXCAVATIONS WITHIN THE DRIP LINE SHALL PROCEED WITH CARE BY USE OF HAND TOOLS OR EQUIPMENT THAT WILL NOT CAUSE INJURY TO TREE TRUNKS, BRANCHES AND ROOTS.
4. NO ROOTS GREATER THAN 2 INCHES IN DIAMETER SHALL BE CUT WITHOUT PERMISSION OF LANDSCAPE ARCHITECT OR PROJECT ARBORIST. EXPOSED ROOTS 2 INCHES AND LARGER IN DIAMETER SHALL BE WRAPPED IN BURLAP OR OTHER APPROVED MATERIAL AND KEPT MOIST AT ALL TIMES.
5. IF THERE ARE ANY TREE CONFLICTS ON THIS JOB SITE, PERMIT HOLDER MUST SUSPEND ALL WORK THAT CONTRIBUTES TO THE CONFLICT AND IMMEDIATELY CONTACT LANDSCAPE ARCHITECT OR PROJECT ARBORIST FOR DIRECTION AND CLEARANCE TO CONTINUE THE CONFLICTING WORK.
6. TREES THAT ARE PROTECTED SHALL BE THOROUGHLY WATERED AS REQUIRED TO KEEP ROOT BALLS FROM DRYING OUT, ESPECIALLY BETWEEN APRIL THROUGH SEPTEMBER.

UTILITIES NOTES:

1. GENERALLY, FILL MATERIAL SHALL BE IN PLACE AND COMPACTED BEFORE INSTALLATION OF PROPOSED UTILITIES.
2. ALL NECESSARY INSPECTIONS, CERTIFICATIONS, AND TESTING REQUIRED BY CODES AND UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO MUNICIPAL APPROVAL FOR THE FINAL CONNECTION OF SERVICE. CONTRACTOR SHALL BE RESPONSIBLE FOR PAYMENT OF TESTING SERVICES AND COORDINATION WITH UTILITY OWNER.
3. CONTRACTOR SHALL PROVIDE ALL MATERIALS AND APPURTENANCES NECESSARY FOR COMPLETE INSTALLATION OF THE IMPROVEMENTS SHOWN.
4. THE CONTRACTOR SHALL REPORT, IN WRITING ANY UTILITY CONFLICTS TO THE ENGINEER IMMEDIATELY UPON DISCOVERING CONFLICTS.
5. THE SANITARY SEWER PIPE LENGTHS AS SHOWN ON THE DRAWINGS REPRESENTS THE DISTANCE FROM CENTER TO CENTER OF THE RESPECTIVE STRUCTURES.
6. PRIOR TO UTILITY RELOCATION, REMOVAL OR ABANDONMENT, THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL UTILITY PROVIDERS, LOCAL MUNICIPALITY, AND NCDOT. KNOWN UTILITY PROVIDER INFORMATION IS CONTAINED ON THIS PLAN SHEET.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING SURROUNDING NEIGHBORS ABOUT ANY POTENTIAL INTERRUPTION TO SERVICE OF ANY KIND.
8. THE CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF 3 FEET ON ALL PROPOSED WATER LINES. THREE FEET SHALL BE MEASURED TO THE BOTTOM OF THE PROPOSED SUBGRADE WITHIN PAVED AREAS.
9. THE CONTRACTOR SHALL MAINTAIN A MINIMUM COVER OF 3 FEET ON ALL PROPOSED SANITARY LINES. THREE FEET SHALL BE MEASURED TO THE BOTTOM OF THE PROPOSED SUBGRADE WITHIN PAVED AREAS.
10. THE CONTRACTOR SHALL MAINTAIN SEPARATION OF WATER MAIN FROM SANITARY SEWER PIPING IN ACCORDANCE WITH THOSE DISTANCES SPECIFIED BY STATE AND/OR LOCAL CODE OR A MINIMUM OF 10 FEET HORIZONTAL OR 18 INCHES VERTICAL DISTANCE.
11. THE CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES FOR INSTALLATION OF ALL PROPOSED POWER AND COMMUNICATION LINES AND ASSOCIATED APPURTENANCES.
12. THE CONTRACTOR MUST STUB THE FIRE LINE INTO THE RISER ROOM. THE CONTRACTOR WILL COORDINATE TESTING OF THE LINE WITH HARNETT COUNTY FIRE DEPARTMENT. THE CONTRACTOR WILL BE REQUIRED TO OBTAIN THE NECESSARY CERTIFICATION OF FIRE LINE FROM THE FIRE INSPECTOR. THE COST OF TESTING AND CERTIFICATION WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
13. THE CONTRACTOR WILL COORDINATE TESTING OF THE DOMESTIC WATER SERVICE LINE AND SANITARY SEWER LATERALS WITH THE LOCAL PLUMPING INSPECTOR, THE COST OF TESTING WILL BE THE RESPONSIBILITY OF THE CONTRACTOR
14. THE CONTRACTOR MUST BRING THE PROPOSED UTILITIES TO WITHIN FIVE FEET OF BUILDINGS AND STUB UP FOR FUTURE CONNECTION BY OTHERS, UNLESS SPECIFICALLY NOTED OTHERWISE.
15. THE CONTRACTOR MUST COORDINATE THE FINAL LOCATION OF THE PAD MOUNTED TRANSFORMER(S) WITH UTILITY COMPANY, ENGINEER AND OWNER PRIOR TO INSTALLATION. THE CONTRACTOR MUST INSTALL THE CONCRETE PAD AND THE UTILITY COMPANY WILL INSTALL THE TRANSFORMER. COORDINATION FOR THIS WORK ITEM WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.
16. THE CONDUIT LOCATIONS SHOWN ON THE PLAN ARE CONCEPTUAL ONLY. ACTUAL LOCATIONS MUST BE IDENTIFIED BY THE ELECTRICAL AND TELECOMMUNICATION CONTRACTORS. CONDUITS WITHIN PAVED AREAS ARE TO BE INSTALLED PRIOR TO THE FINAL PROOF ROLL AND INSTALLATION OF AGGREGATE BASE MATERIAL. CONDUITS MUST BE INSTALLED WITH PROPER MARKERS TO FACILITATE THE INSTALLATION OF UNDERGROUND ELECTRIC AND FIBER OPTIC LINES. CONDUITS MUST INCLUDE A PULL STRING. ACTUAL DIAMETER, LOCATION AND QUANTITY WILL BE DETERMINED BY THE ELECTRICAL AND TELECOMMUNICATION CONTRACTOR(S).
17. THE GENERAL CONTRACTOR MUST PROVIDE CONDUITS AND CONDUCTORS FOR THE HEATERS AND/OR HEAT TAPE TO EACH BACKFLOW DEVICE HOT BOX.
18. ALL SANITARY SEWER SERVICE LATERALS 6" IN DIAMETER AND SMALLER SHALL BE PVC DWV SOLID CORE, SCHEDULE 40, IN ACCORDANCE WITH ASTM D2665 UNLESS OTHERWISE NOTED ON THE PLANS.
19. ALL PRIVATE DOMESTIC WATER LINES 1.5" DIAMETER AND SMALLER SHALL BE TYPE K SOFT COPPER TUBING PER ASTM B88 WITH BRASS FITTINGS CONFORMING TO AWWA C800.

EROSION & SEDIMENT CONTROL NOTES:

1. CONTRACTOR SHALL INSTALL EROSION CONTROLS IN ORDER WITH THE SEQUENCE PROVIDED.
2. CONTRACTOR SHALL ENSURE GRADING OPERATIONS ARE CONDUCTED IN A MANNER THAT DOES NOT ALLOW ANY SEDIMENT TO DRAIN OFFSITE OR INTO WATERCOURSES.
3. A GRAVEL CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT THE LOCATIONS SHOWN ON THE DRAWINGS AND AT EACH POINT OF CONSTRUCTION ACCESS.
4. CONTRACTOR SHALL CONSTRUCT DIVERSION DITCHES AS NECESSARY TO ENSURE ALL SEDIMENT IS DIRECTED INTO EROSION CONTROL MEASURES.
5. IF STORM CROSS DRAINAGE CANNOT BE INSTALLED PRIOR TO GRADING, TEMPORARY HDPE STORM DRAINAGE PIPE SHALL BE USED TO CROSS WET WEATHER CHANNELS, EXCLUDING ANY PROTECTED WETLANDS OR STREAMS.
6. ALL STORM DRAINAGE PIPE SHALL BE PROTECTED AS SHOWN ON THE PLANS DURING CONSTRUCTION.
7. CONTRACTOR SHALL PROVIDE RIPRAP LINED DISSIPATOR PADS AT THE STORM DRAINAGE PIPE DISCHARGE POINTS AS REQUIRED TO ENSURE POSITIVE DRAINAGE. SEE PLANS FOR DIMENSIONS AND DETAILS.
8. PERMANENT GROUND COVER SHALL BE ESTABLISHED PER APPROVED NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT.
9. TREE PROTECTION FENCING SHALL BE INSTALLED AND INSPECTED PRIOR TO ISSUANCE OF A GRADING PERMIT. FENCING SHALL NOT BE REQUIRED ADJACENT TO AREAS WITHOUT WOODED VEGETATION. FENCING SHALL BE MAINTAINED ON THE SITE UNTIL ALL SITE WORK IS COMPLETED AND THE FINAL SITE INSPECTION PRIOR TO THE CERTIFICATE OF OCCUPANCY (CO) IS SCHEDULED. THE FENCING SHALL BE REMOVED PRIOR TO FINAL SITE INSPECTION FOR THE CO.
10. THE CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT AN EROSION CONTROL PERMIT AND ANY OTHER RELATED PERMITS ARE SECURED FOR ANY OFF-SITE WASTE OR BORROW AREAS. UNLESS OTHERWISE STATED IN THE PROJECT DOCUMENTS, THE CONTRACTOR IS RESPONSIBLE FOR SECURING ALL AGREEMENTS WITH LANDOWNERS FOR PLACEMENT OF WASTE SOIL OR REMOVAL OF BORROW. OFF-SITE PERMITS AND AGREEMENTS SHALL EXIST PRIOR TO CONSTRUCTION ACTIVITIES ON WASTE OR BORROW AREAS. COPIES OF PERMITS AND AGREEMENTS SHALL BE PROVIDED TO THE OWNER AND ENGINEER.
11. SOILS CONTAMINATED WITH ANY CHEMICAL, METAL OR PETROLEUM CONTAMINATION SHALL NOT BE TRANSPORTED ONTO THE PROPERTY AS BORROW / FILL SOILS. CONTAMINATED SOILS, IF DISCOVERED ON THE PROPERTY SHALL NOT BE TRANSPORTED OFFSITE WITHOUT TESTING, PERMITTING AND/OR OTHER REGULATORY APPROVALS COMMENSURATE WITH THE TYPE OF CONTAMINATION AND LOCATION.
12. ALL ROADWAY DITCHES DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO PRE-CONSTRUCTION CONDITION OR BETTER AND CONFORM TO NCDOT REQUIREMENTS OR AUTHORITIES HAVING JURISDICTION. ALL DITCHES SHALL BE LINED WITH EROSION CONTROL MATTING UNLESS OTHERWISE NOTED.
13. ALL EXCAVATED MATERIAL SHALL BE PLACED WITHIN THE LIMITS OF DISTURBANCE DURING UTILITY INSTALLATION. THE CONTRACTOR SHALL PROVIDE THE NECESSARY SEDIMENT AND EROSION CONTROL MEASURES TO CONTROL RUN-OFF. ALL EXCESS EXCAVATED MATERIAL SHALL BE REMOVED FROM THE CONSTRUCTION SITE AND DISPOSED OF LEGALLY.

FIRE & LIFE SAFETY NOTES:

1. LANDSCAPING OR PARKING CANNOT BLOCK OR IMPEDE THE FIRE DEPARTMENT CONNECTION (FDC) OR FIRE HYDRANTS. A 3-FOOT (3') CLEAR SPACE SHALL BE MAINTAINED AROUND THE CIRCUMFERENCE OF ANY HYDRANT, FDC OR OTHER FIRE DEPARTMENT EQUIPMENT.
2. FDC MUST BE WITHIN 40' OF FIRE APPARATUS PLACEMENT.
3. HYDRANTS MUST BE LOCATED WITHIN EIGHT FEET (8'), BUT NO CLOSER THAN THREE FEET (3') OF THE CURB.
4. A MINIMUM OF FIVE FEET (5') SHALL SEPARATE UNDERGROUND FIRE LINES OR PRIVATE WATER MAINS FROM OTHER UNDERGROUND UTILITIES.
5. NEW HYDRANTS SHALL BE OPERABLE PRIOR TO CONSTRUCTION OF THE BUILDING(S).
6. HYDRANT MUST BE WITHIN 100' OF THE FDC (MEASURED AS THE TRUCK DRIVES FOR PRACTICAL USE).
7. CONTRACTOR SHALL MAINTAIN AN ALL-WEATHER ACCESS FOR EMERGENCY VEHICLES AT ALL TIMES DURING CONSTRUCTION AS SHOWN ON THE PLANS.
8. ADDITIONAL FIRE PROTECTION AND ACCESSIBILITY REQUIREMENTS MAY BE REQUIRED DUE TO ANY SPECIAL CIRCUMSTANCES CONCERNING THE PROJECT.
9. ALL ISOLATION VALVES WITHIN THE “HOT BOX” SHALL BE ELECTRICALLY SUPERVISED. PLEASE WORK WITH YOUR FIRE SPRINKLER AND ALARM INSTALLER IN REGARD TO RUNNING WIRE FOR TAMPER SWITCH.
10. ROADWAYS AND BUILDINGS MUST BE CAPABLE OF SUPPORTING FIRE APPARATUS DURING CONSTRUCTION.
11. FIRE FLOW ANALYSIS MUST BE PROVEN AT TIME OF BUILDING PERMITS PER NORTH CAROLINA FIRE PROTECTION CODE (NCFPC), SECTION 507.3, LATEST EDITION. THIS IS THE AVAILABLE FIRE FLOW FROM THE HYDRANT AND THE MINIMUM REQUIRED FIRE FLOW CALCULATION FROM NCFPC APPENDIX B OR OTHER APPROVED METHOD.

RETAINING WALL NOTES:

1. THE CONTRACTOR MUST ENGAGE A QUALIFIED STRUCTURAL ENGINEER IN THE STATE OF THE PROJECT FOR STRUCTURAL WALL DESIGN.
2. TFW REFERS TO TOP FACE OF WALL ELEVATION. BFW REFERS TO THE BOTTOM FACE OF WALL ELEVATION AT FINISHED GRADE, NOT FOOTING GRADE.
3. IF STAKED BY WITHERSRAVENEL, INC., BOTTOM OF WALL GRADE AT FINISHED GRADE WILL BE STAKED. ANY DIFFERENCES BETWEEN FOUNDATION OF WALL AS COMPARED TO FINISHED GRADE BOTTOM IS TO BE STATED SO ON RETAINING WALL PLANS BY OTHERS.
4. IF WALL CONTRACTOR REQUIRES ADDITIONAL STAKING BEYOND WALL AT FINISHED GRADE, THE ENGINEER MAY PROVIDE A CAD FILE NOTING LOCATION OF THE ITEMS TO BE STAKED. LOCATIONS WHERE WALL BREAKS OR CHANGES IN WALL ANGLES ARE TO BE NOTED ON THE CAD FILE.
5. WALL DESIGN WIDTHS FOR USE ON DESIGN DRAWINGS MUST BE PROVIDED BY THE CONTRACTOR AND/OR QUALIFIED STRUCTURAL ENGINEER.
6. PRIOR TO WALL STAKING, A MEETING MUST BE HELD BY THE SURVEYOR AND WALL CONTRACTOR TO DETERMINE STAKING CRITERIA.
7. THE CONTRACTOR MUST INSTALL TEMPORARY FENCING/BARRICADES DURING CONSTRUCTION UNTIL PERMANENT FENCING IS INSTALLED.
8. THE CONTRACTOR IS RESPONSIBLE FOR DAMAGES TO PERMANENT FENCING DURING CONSTRUCTION. REPAIR OF DAMAGES WILL BE DONE AT NO ADDITIONAL COST TO THE OWNER AND MUST BE DONE TO THE SATISFACTION OF THE ENGINEER AND OWNER.

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CONSTRUCTION PLANS
TRI POINTE HOMES SERENITY AMENITY
STREAMSIDE TERRACE | HARNETT COUNTY, NORTH CAROLINA

SEAL 046230
DAVID L. STARKEL

Signed by:
David Starkel
438D5C988B8F438...
5/27/2025

INITIAL PLAN DATE: 05/23/2025
REVISIONS:
-
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WR JOB NUMBER 23-1177
DRN: WR DGN: WR CKD: WR

GENERAL NOTES

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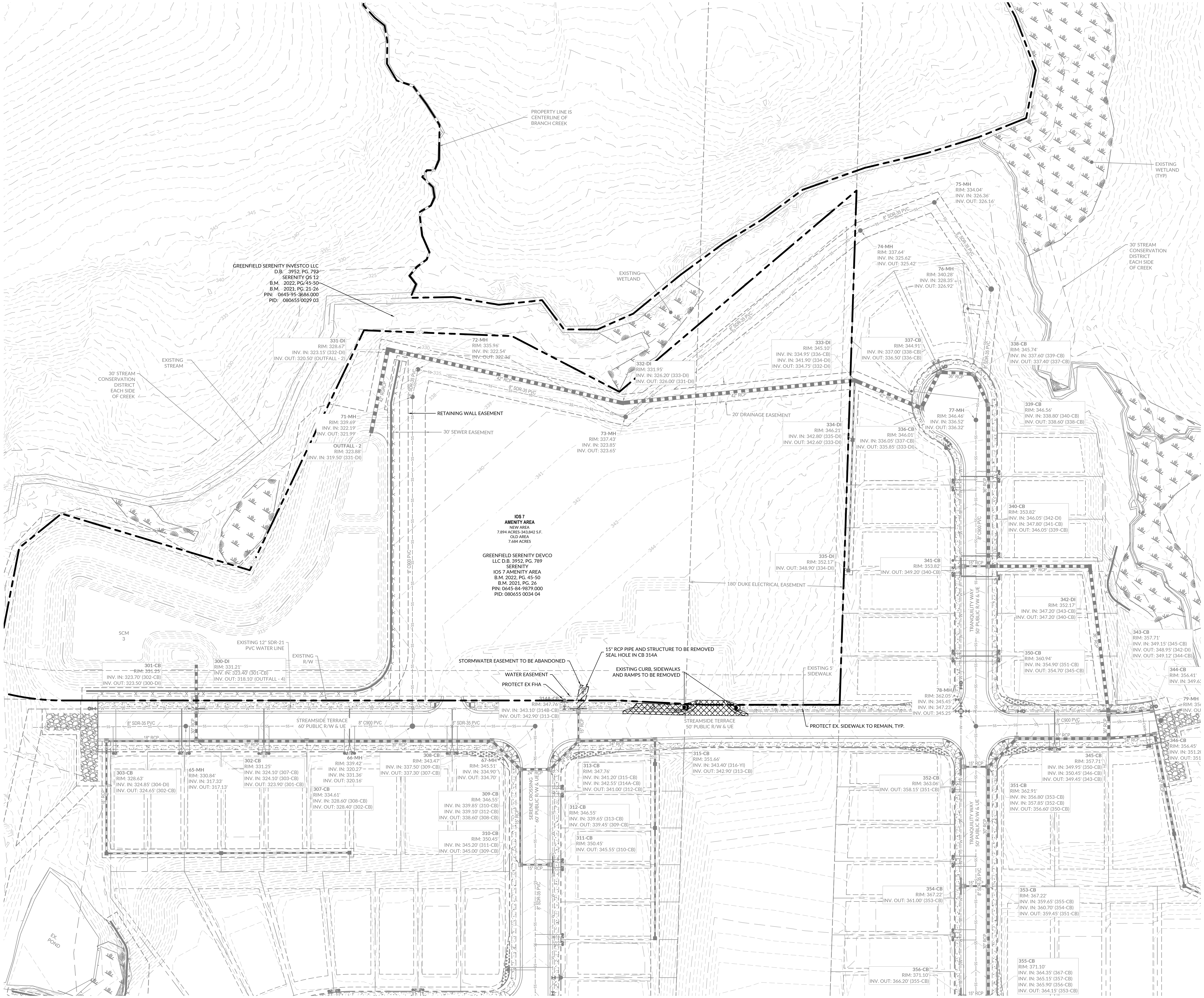

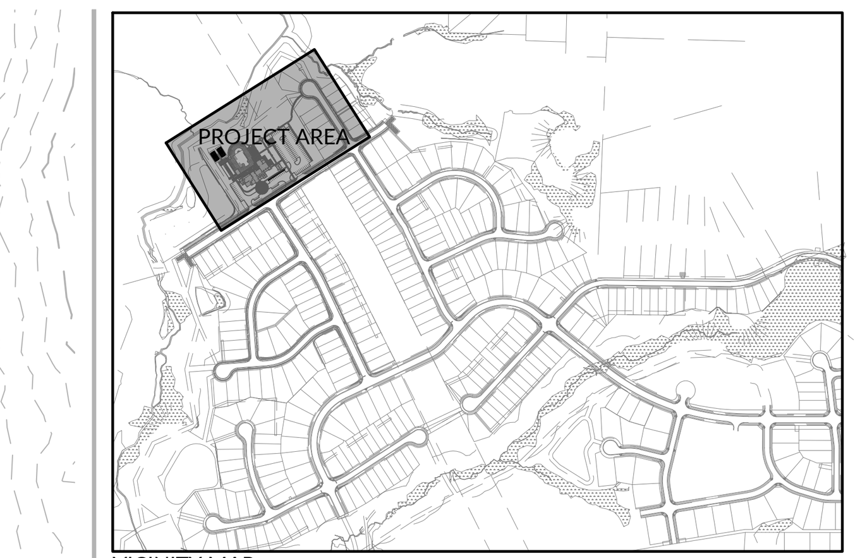

VICINITY MAP

EXISTING CONDITIONS LEGEND:

SYMBOL	DESCRIPTION
	BENCHMARK
	MAGNETIC NAIL
	IRON PIPE
	CLEAN OUT
	LIGHT POLE
	ELECTRIC METER
E	ELECTRIC BOX
C	CATV BOX
	TELEPHONE PEDESTAL
D DMH	STORM DRAIN MANHOLE
	SANITARY SEWER MANHOLE
	AREA INLET
	CATCH BASIN
	FLARED END SECTION
	SIGN
RD	ROOF DRAIN
	AIR CONDITIONER
BO	BLOW OFF
	ORNAMENTAL TREE
	SHADE TREE
HC	HANDICAP PARKING SPACE

EXISTING LINETYPE LEGEND:

SYMBOL	DESCRIPTION
	PROPERTY LINE
	ADJOINER (NOT SURVEYED)
	STORM DRAINAGE PIPE
	SEWER LINE
	CONTOUR MAJOR
	CONTOUR MINOR
	SEWER EASEMENT
	ACCESS EASEMENT
	STREAM BUFFER
	EXISTING TREELINE
	EXISTING CURB & GUTTER
	EXISTING SIDEWALK

DEMOLITION LEGEND

SYMBOL	DESCRIPTION
	XXX AREAS TO BE REMOVED
	STORM PIPE TO BE REMOVED

EXISTING CONDITIONS AND DEMOLITION NOTES

1. EXISTING CONDITIONS ARE BASED ON APPROVED SUBDIVISION PLANS FOR SERENITY, NOT FROM SURVEY DATA
2. OBJECTS DISPLAYED IN BLACK ARE TO BE REMOVED

SCALE: 1 inch = 50 ft.

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CONSTRUCTION PLANS

TRI POINTE HOMES SERENITY AMENITY

STREAMSIDE TERRACE | HARNETT COUNTY, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 046230 DAVID L. STARKEL

Signed by: David Starkel
438D5C988B8F438...
5/27/2025

INITIAL PLAN DATE: 05/23/2025
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WR JOB NUMBER	23-1177
DRN: WR	DGN: WR CKD: WR

EXISTING CONDITIONS AND DEMOLITION PLAN

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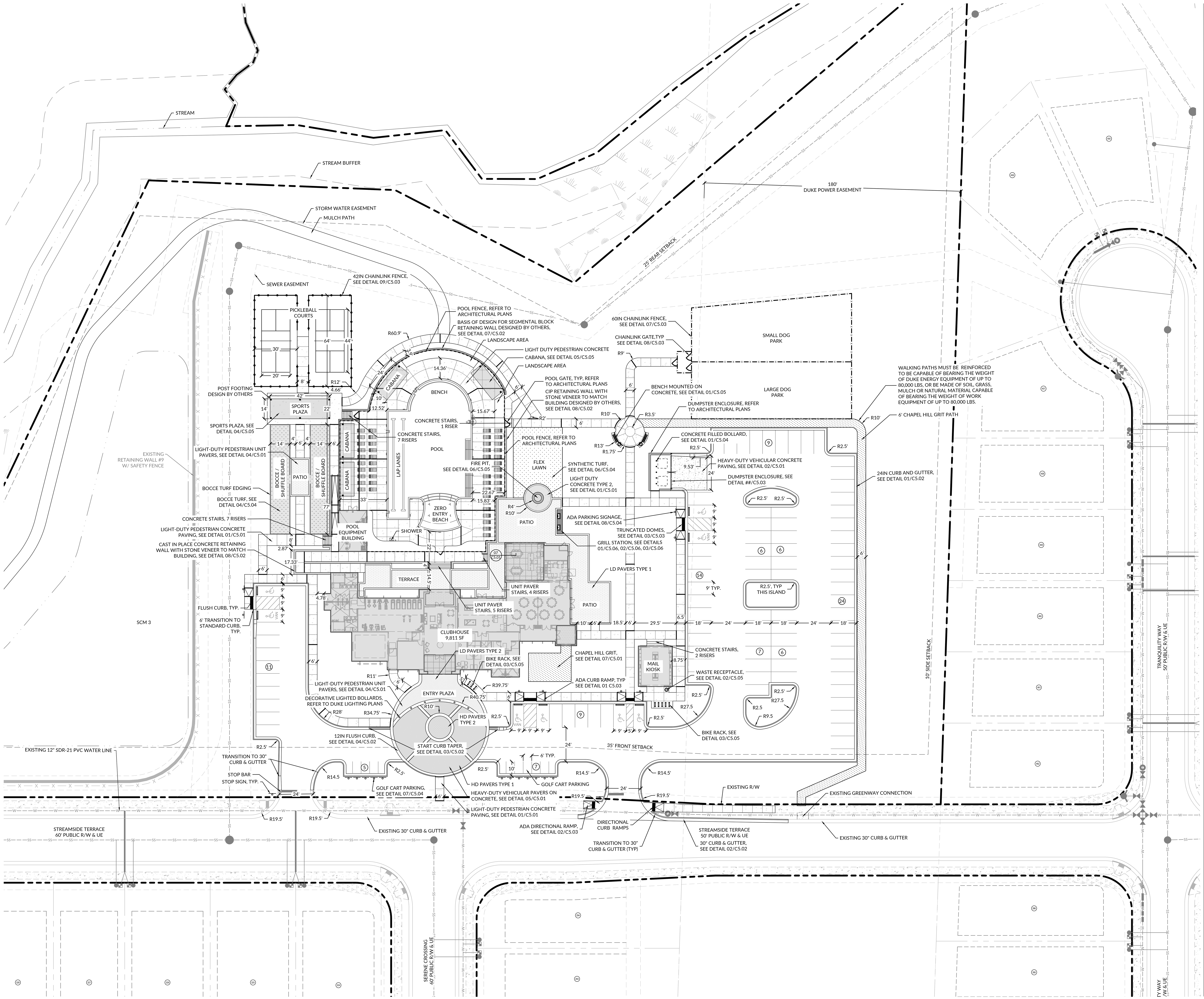

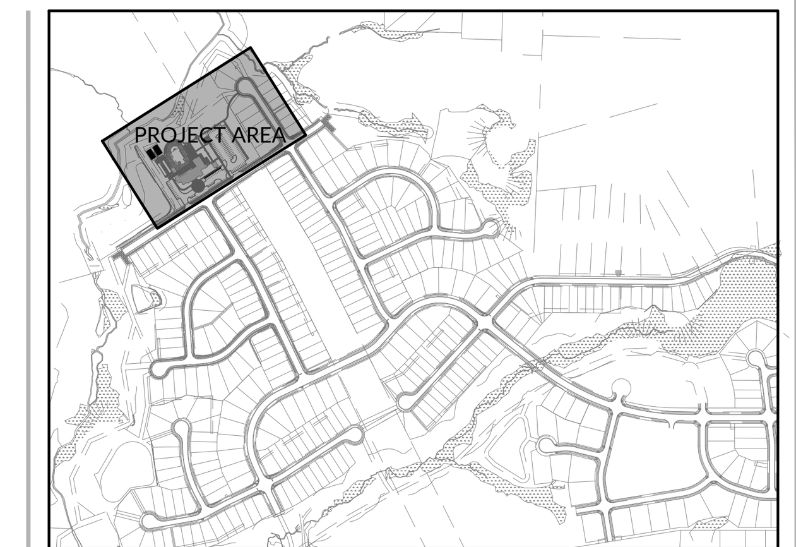

VICINITY MAP

SITE LEGEND:

		MATERIAL HATCH
1.0	**PAVEMENTS, CURBS, CURB RAMPS**	
1.0	HD CONCRETE	
1.1	LD CONCRETE TYPE 1	
1.2	LD CONCRETE TYPE 2	
1.3	HD ASPHALT PAVEMENT	
1.4	CHAPEL HILL GRIT	
1.5	LD CONCRETE PAVER TYPE 1	
1.6	LD CONCRETE PAVER TYPE 2	
1.7	HD CONCRETE PAVER TYPE 1	
1.8	HD CONCRETE PAVER TYPE 2	
1.9	SYNTHETIC TURF TYPE 1	
1.10	SYNTHETIC TURF TYPE 2	
1.11	CONCRETE CURB & GUTTER	
1.12	CONCRETE FLUSH CURB	
1.13	CONCRETE CURB RAMP TYPE 1	
1.14	CONCRETE CURB RAMP TYPE 2	
2.0	**JOINTING**	
2.0	CONTROL JOINT	
2.1	EXPANSION JOINT	
3.0	**STEPS / RAMPS**	
3.0	STAIRS TYPE 1 (CONCRETE)	
3.1	STAIRS TYPE 2 (PAVER)	
3.2	CONCRETE ACCESSIBLE RAMP	
4.0	**SITE WALLS / EMBANKMENTS**	
4.2	STONE VENEER RETAINING WALL	
4.4	SEGMENTAL BLOCK WALL	
5.0	**RAILINGS, BARRIERS, FENCING / GATES**	
5.0	HANDRAIL	
5.1	BLACK ALUM. POOL FENCING	
5.2	48" CHAIN LINK FENCING	
5.3	42" BLACK CHAIN LINK FENCING	
5.4	GATE	
5.5	CONCRETE FILLED BOLLARD	
5.6	DECORATIVE BOLLARD	
6.0	**SITE FURNISHINGS**	
6.0	BENCH	
6.1	WASTE RECEPTACLE	
6.2	BIKE RACK	
6.3	POOL LOUNGE CHAIR	
7.0	**SITE LIGHTING**	
7.0	VEHICULAR AREA LIGHT POLE	
7.1	PED. LIGHT POLE TYPE 1	
8.0	**DRAINAGE**	
8.0	TRENCH DRAIN	

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STREAMSIDE TERRACE | HARNETT COUNTY, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 2077 DANIEL B. WHATLEY

DocuSigned by:
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5/27/2025

SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 05/23/2025
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SITE PLAN

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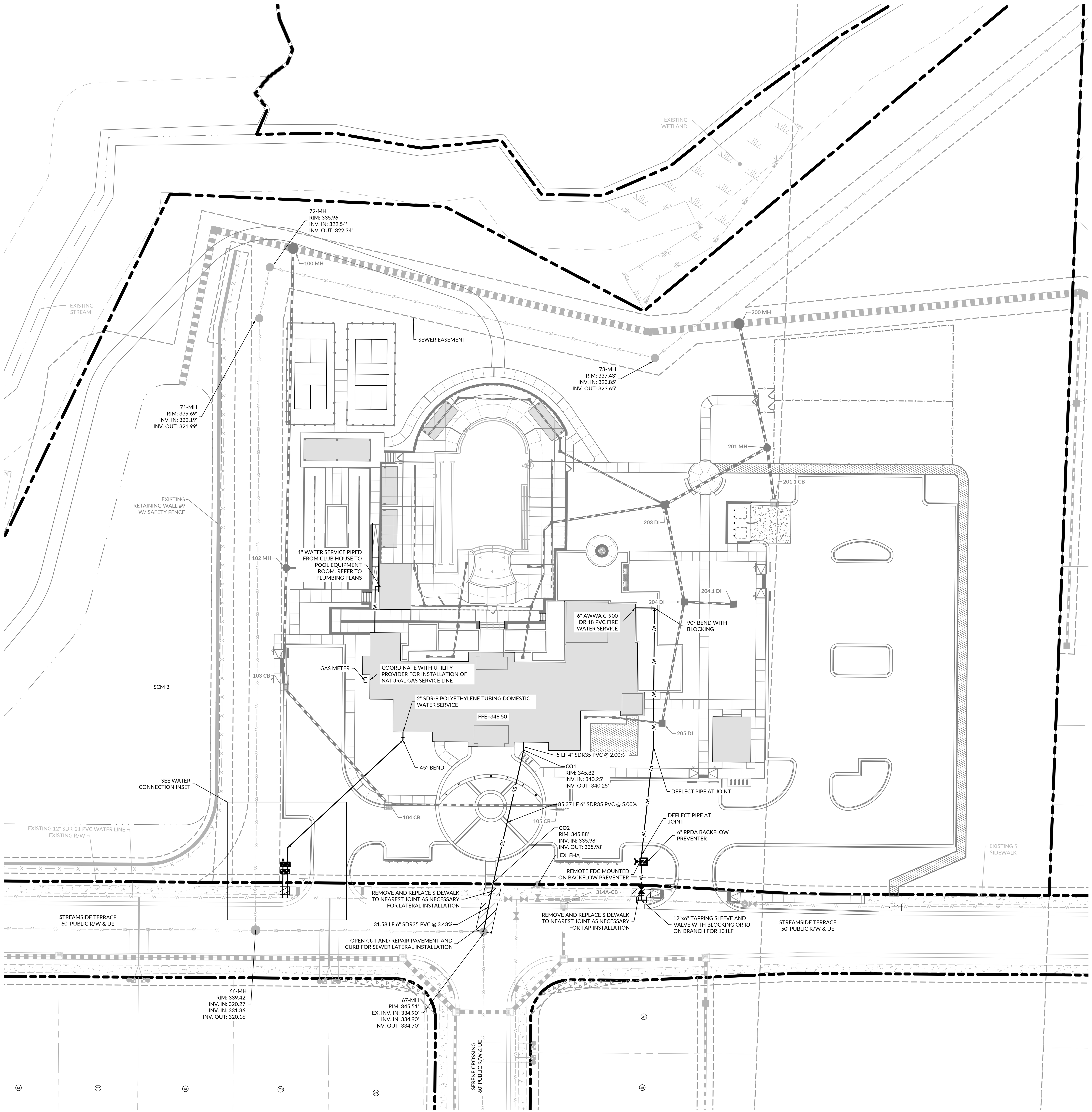
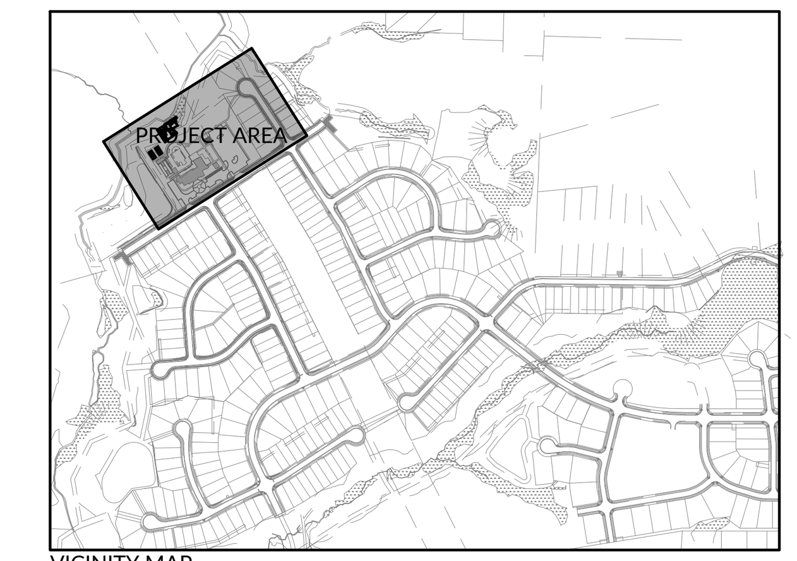
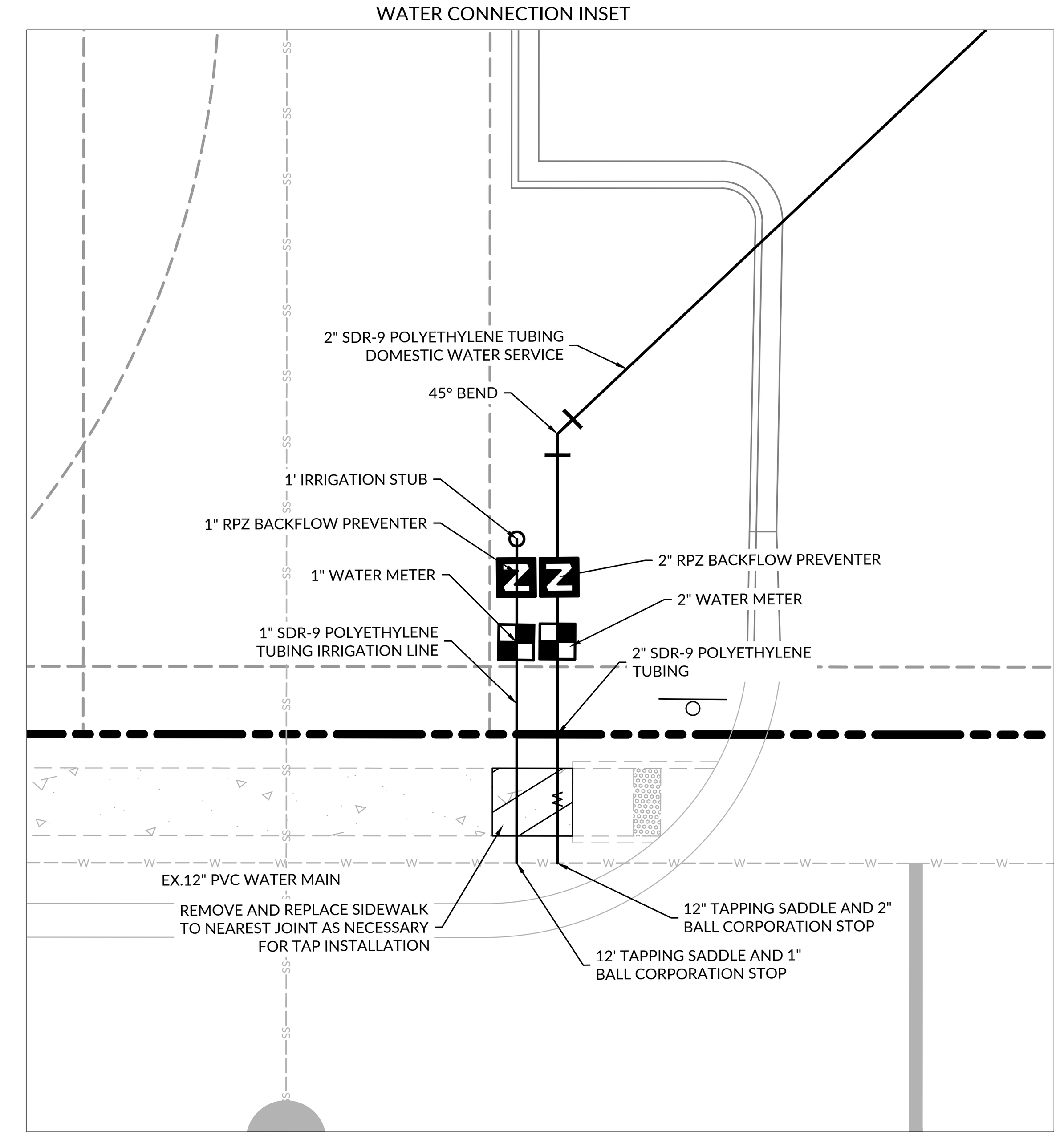




VICINITY MAP

PLUMBING SUMMARY		
SYSTEM & MATERIAL	FIXTURE UNITS	MAIN SIZE
WASTE AND VENT SYSTEM		
SCHEDULE 40 PVC-DWV CONFORMING TO ASTM D-2665	100.000	4"
DOMESTIC WATER SYSTEM		
BELOW SLAB: TYPE "K" SOFT COPPER WITH NO JOINT BELOW SLAB	121.000	2" (74.0 GPM)

WATER CONNECTION INSET



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CONSTRUCTION PLANS

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NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 046230 DAVID L. STARKEL

Signed by: David Starkel
5/27/2025

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UTILITY PLAN

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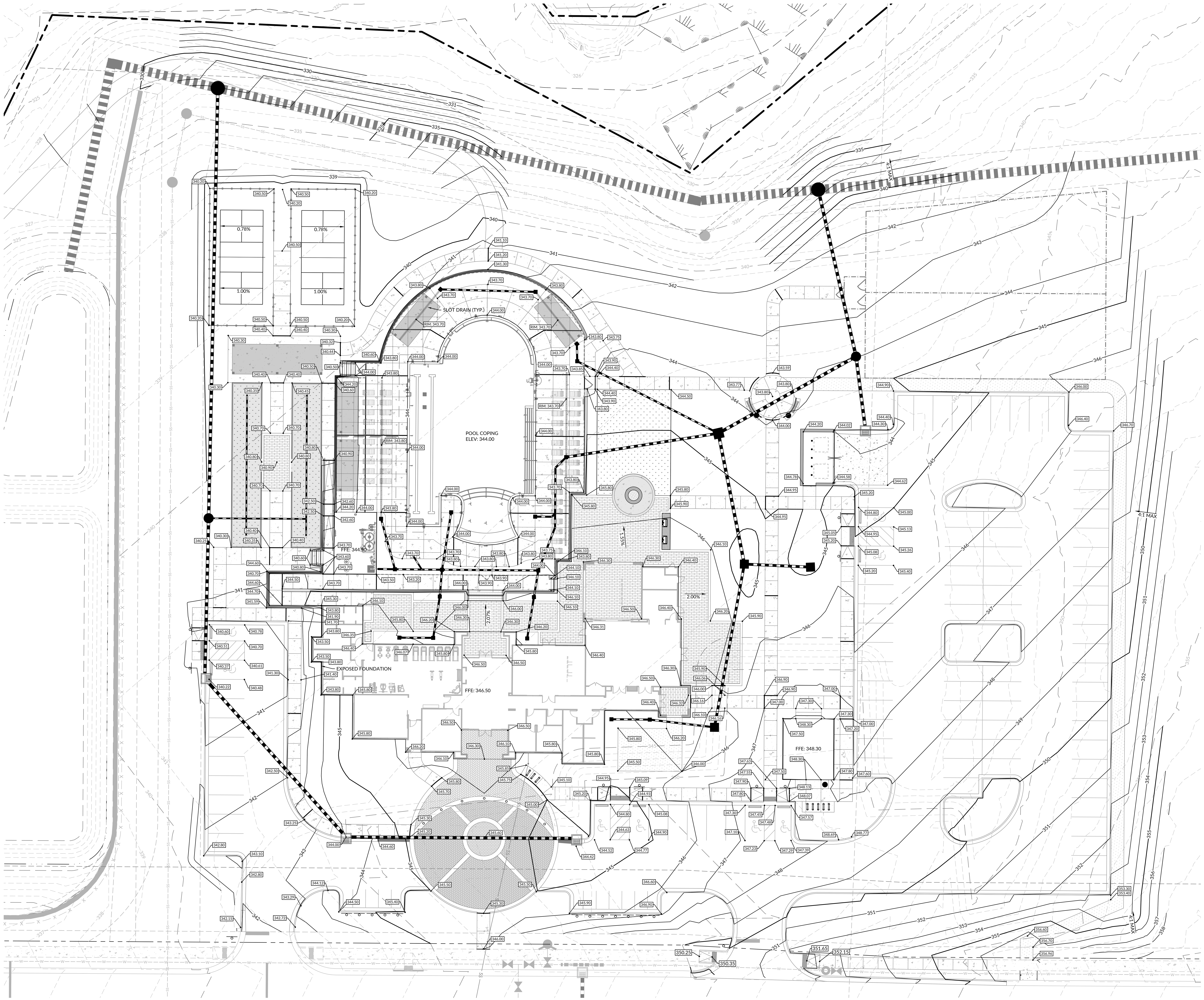

VICINITY MAP

GRADING AND DRAINAGE LEGEND

SYMBOL	DESCRIPTION
100	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
100	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	STORM PIPE
	CATCH BASIN (CB)
	JUNCTION BOX (JB)
	YARD INLET (YI)/DROP INLET (DI)

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NORTH CAROLINA PROFESSIONAL SEAL 046230 ENGINEER DAVID L. STARKEL

Signed by:
David Starkel 5/27/2025
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GRADING PLAN

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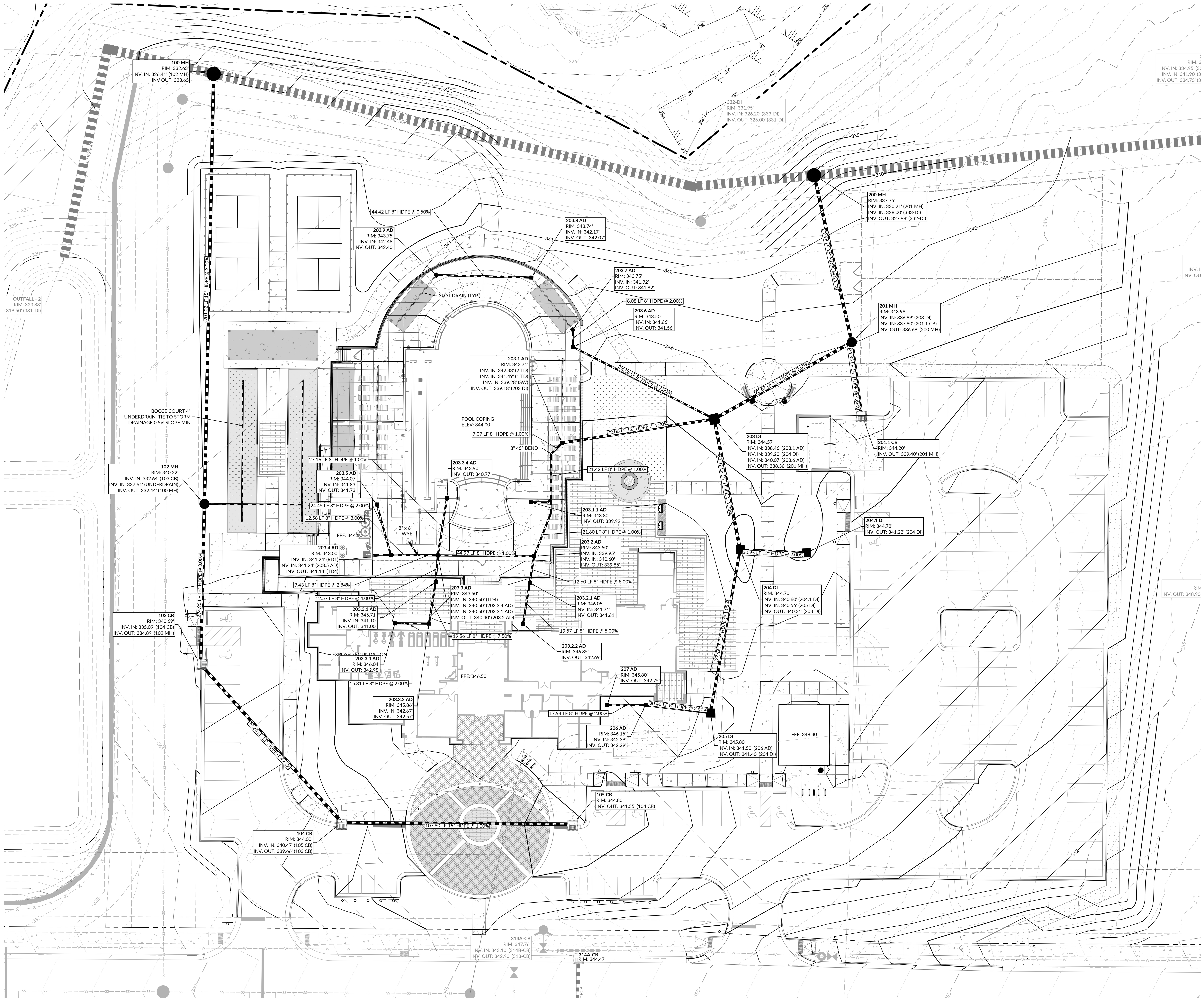

VICINITY MAP

GRADING AND DRAINAGE LEGEND

SYMBOL	DESCRIPTION
100	EXISTING MAJOR CONTOUR
	EXISTING MINOR CONTOUR
100	PROPOSED MAJOR CONTOUR
	PROPOSED MINOR CONTOUR
	STORM PIPE
	CATCH BASIN (CB)
	MANHOLE (MH)
	YARD INLET (YI)/DROP INLET (DI)
	AREA DRAIN (AD)

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Raleigh, NC 27607

CONSTRUCTION PLANS

TRI POINTE HOMES SERENITY AMENITY

STREAMSIDE TERRACE | HARNETT COUNTY, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 046230 ENGINEER DAVID L. STARKEL

Signed by: David Starkel 5/27/2025

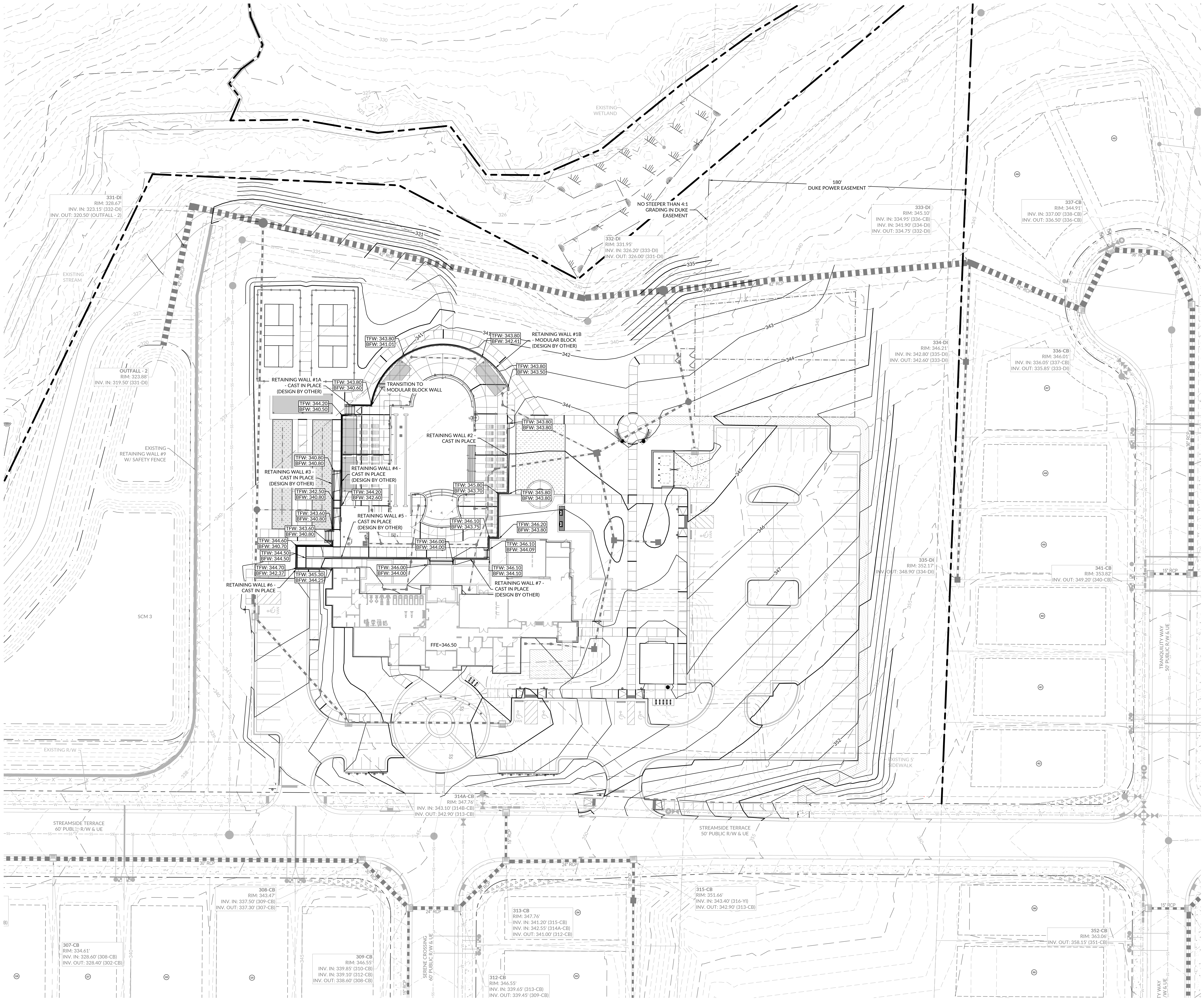
SCALE: 1 inch = 20 ft.

INITIAL PLAN DATE: 05/23/2025
REVISIONS:

WR JOB NUMBER	23-1177
DRN: WR	DGN: WR	CKD: WR

DRAINAGE PLAN

C4.01



VICINITY MAP

GRADING AND DRAINAGE LEGEND

SYMBOL	DESCRIPTION
—100— (dashed, grey)	EXISTING MAJOR CONTOUR
- - - -	EXISTING MINOR CONTOUR
—100—	PROPOSED MAJOR CONTOUR
———	PROPOSED MINOR CONTOUR
▬▭▬▭	STORM PIPE
▣	CATCH BASIN (CB)
●	JUNCTION BOX (JB)
■	YARD INLET (YI)/DROP INLET (DI)

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CONSTRUCTION PLANS
TRI POINTE HOMES SERENITY AMENITY
STREAMSIDE TERRACE | HARNETT COUNTY, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 046230 ENGINEER DAVID L. STARKEL

Signed by:
David Starkel 5/27/2025
438D5C988B8F438...

0 15 30
SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 05/23/2025
REVISIONS:

WR JOB NUMBER	23-1177
DRN: WR DGN: WR	CKD: WR

RETAINING WALL LABELS

C4.02

EST. 1983

MATERIALS AND FURNISHING SCHEDULE

ITEM	QUANTITY	MANUFACTURER	PRODUCT NAME/NO.	SIZE / DIMENSION	COLOR/FINISH	WEBSITE	NOTES
HARDSCAPE MATERIALS							
Heavy Duty (HD) Concrete Paving			5,000 P.S.I.	Per Detail	Grey / Light Broom		
Light Duty (LD) Concrete Paving Type 1			3,000 P.S.I.	Per Detail	Grey / Light Broom		
Light Duty (LD) Concrete Paving Type 2			3,000 P.S.I.	Per Detail	Integral Concrete in Charcoal / Light Broom		
HD Asphalt Paving			S9.5B Surface Course + I19.0B Binder Course	Per Detail	Per NCDOT standard		
HD Unit Paver Type 1		Techo-Bloc	Blu 80 Smooth Patio Slabs	6.5x13x3 1/8" (nom) + 13x13x3 1/8" (nom) + 13x19.5x3 1/8" (nom)	Shale Grey / Smooth Finish	www.techo-bloc.com	
HD Unit Paver Type 2		Techo-Bloc	Victorien Commercial	4 1/4"x 8 1/2"x 2 3/8"	Shale Grey / Smooth Finish	www.techo-bloc.com	
LD Unit Paver Type 1		Techo-Bloc	Blu 60 Smooth Patio Slabs	6.5x13x2.5" (nom) + 13x13x2.5" (nom) + 13x19.5x2.5" (nom)	Shale Grey / Smooth Finish	www.techo-bloc.com	
LD Unit Paver Type 2		Techo-Bloc	Hexa 100 Commercial	3 15/16" x 9" x 15 3/16"	Shale Grey / Smooth Finish	www.techo-bloc.com	
Bocce Court Edger		Techo-Bloc	Raffinato Polished Edge Stone	3 9/16" x 9 3/4" x 14 1/16"	Greyed Nickle / Polished Finish	www.techo-bloc.com	
Chapel Hill Grit		Triangle Landscape Supplies	Chapel Hill Grit	Up to 1/2"	Tan/Brown	www.trianglelandscapesupplies.com	
Synthetic Turf Type 1		SYNLawn	SYNaugustine 347 Synthetic Turf	1 7/8" Pile Height		www.synlawn.com	
Synthetic Turf Type 2		SYNLawn	Classic Putt	1/2" Pile Height		www.synlawn.com	
Detectable Warning Surface		Armor-Tile	Cast In Place Tile	12"x12"	Charcoal internal to site / Yellow in ROW	www.armor-tile.com	
Curb & Gutter				Per Detail	Grey / Smooth		
Curb Ramp Type 1				Per Detail			
Curb Ramp Type 2				Per Detail			
Pickleball Court Surface			Asphalt Court with Acrylic Surface	Per Detail	Pantone Blue (2965) & Pantone Green (357U)		
WALL MATERIALS							
Segmental Block Wall		Keystone Walls	Keystone Standard Series III	8x18x18" units	Grey / Straight Split Finish	www.keystonewalls.com	
Stone Veneer Wall		The NC Stone Center	Grist Mill- Rustic Ledgestone	1-4" Ht, 16" W	Black Mountain / Standard Finish	www.thestonecenter.com	Veneer to match Architectural wall veneer
Wall Cap		Techo-Bloc	Raffinato Smooth Commercial	2 3/8" x 14" x 32"	Greyed Nickle / Smooth Finish		
FENCING, RAILS, GATES & BOLLARDS							
Decorative Bollard	7	Duke Energy	Bollard Style E	3'x4.5" Dia.	43" Tall Black Aluminum	www.duke-energy.com	
Concrete Filled Bollard	5		6" Diameter 16 Gauge Steel Pipe	6 5/8" Dia.	Yellow Painted or Powder Coat Finish per City standard		
Dog Park Fence			Chain Link Fence	5' Height	Black Powder Coat / Black Vinyl Coated Mesh		
Pickleball Fence			Chain Link Fence	3.5' Height	Black Powder Coat / Black Vinyl Coated Mesh		
Handrail			Schedule 40 Stainless Steel Pipe	1 5/8" Dia.	Stainless Steel with Satin Finish		
Dog Park Gate	3		Chain Link Gate	3' Gate	Black Powder Coat / Black Vinyl Coated Mesh		
Dumpster Enclosure Gate	1	Ametco Manufacturing Corp.	Security Gate System / Shadow 80 Panels	Per Detail	Black Powder Coat	www.ametco.com	
STRUCTURES							
Sports Plaza	1	USA Shade	Hip Extended	42' x 14'	Black Powder Coat Base, Colourshade FR Fabric in Dessert Sa	www.usa-shade.com	
Cabana	4	USA Shade	Slanted Cantilever Wing Framed	6 5/8" Dia.	Black Powder Coat Base, Colourshade FR Fabric in Dessert Sa	www.usa-shade.com	
FURNISHINGS							
Bench	2						
Waste Receptacle	3						
Bike Rack	8						
Fire Pit	1	FlameCraft	ReForm Stack Gas Fire Pit	45" Dia.	Charcoal	www.woodlanddirect.com	

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CONSTRUCTION PLANS
TRI POINTE HOMES
SERENITY AMENITY
STREAMSIDE TERRACE | HARNETT COUNTY, NORTH CAROLINA

NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 2077 DANIEL B. WHATLEY

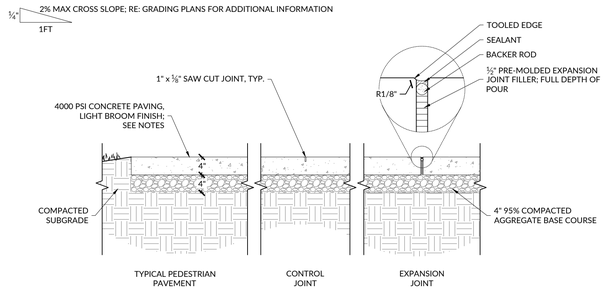
DocuSigned by:
93C512AC741A4C1...
5/27/2025

INITIAL PLAN DATE: 05/23/2025
REVISIONS:

WR JOB NUMBER 23-1177
DRN: WR DGN: WR CKD: WR

MATERIALS AND FURNISHING SCHEDULE

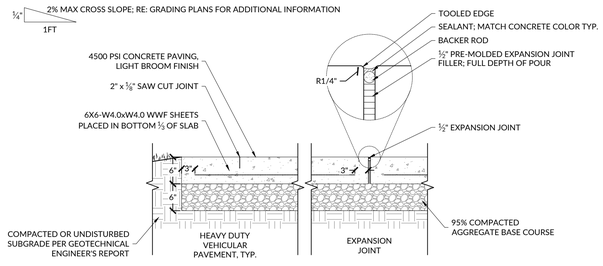
C5.00



NOTES:

1. PROVIDE EXPANSION JOINT WHERE WALKS ARE POURED AGAINST VERTICAL SURFACES AND/OR DIFFERENT PAVING MATERIALS & AS SPECIFIED ON PLANS OR 25'-0" MAX O.C.
2. PROVIDE CONTRACTION JOINT AT 5' INTERVALS UNLESS OTHERWISE SPECIFIED (SEE PLAN).
3. CONTRACTOR TO PROVIDE MOCK-UP OF CONCRETE FINISH, COLOR, AND SCORING FOR OWNERS APPROVAL MOCK-UP CAN BE USED AS PART OF FINAL PROJECT.

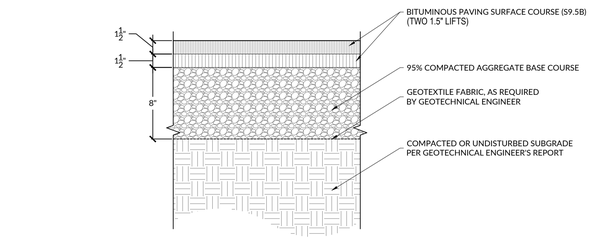
01 LIGHT-DUTY PEDESTRIAN CONCRETE PAVING — SECTION
SCALE: 3/4" = 1'-0"



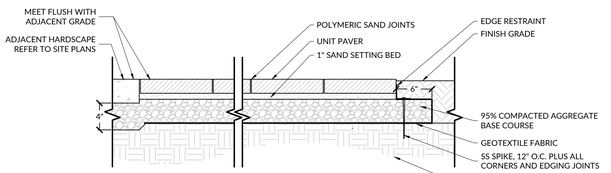
NOTES:

1. PROVIDE EXPANSION JOINT WHERE SLAB MEETS VERTICAL SURFACES AND/OR DIFFERENT PAVING MATERIALS & AS SPECIFIED ON PLANS.
2. PROVIDE ½" EXPANSION JOINTS AT 16' INTERVALS MIN., TYP.
3. SAW CUT (CONTROL JOINTS AT 4' INTERVALS OR AS SHOWN ON PLANS.

02 HEAVY-DUTY VEHICULAR CONCRETE PAVING — SECTION
SCALE: 3/4" = 1'-0"



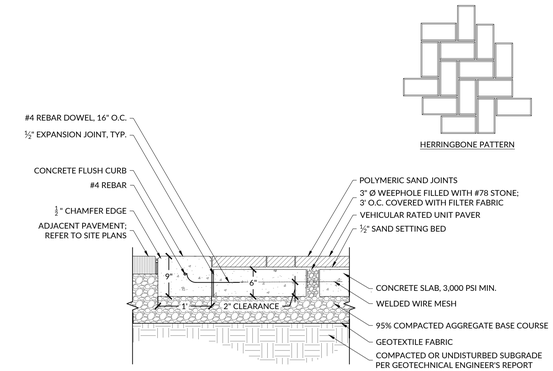
03 HEAVY DUTY ASPHALT PAVING — SECTION
SCALE: 1 1/2" = 1'-0"



NOTES:

1. UNIT PAVER BASIS OF DESIGN IS LIGHT-DUTY COMMERCIAL-GRADE CONCRETE PAVERS (2 1/4" THICK).
2. UNIT PAVERS ARE TO BE LAID IN PATTERNS AS SHOWN ON PLANS AND MEET FLUSH WITH ADJACENT PAVING.
3. POLYMERIC JOINTING SAND IS TO MATCH PAVERS. COLOR IS TO BE SELECTED FROM MANUFACTURER'S FULL RANGE.

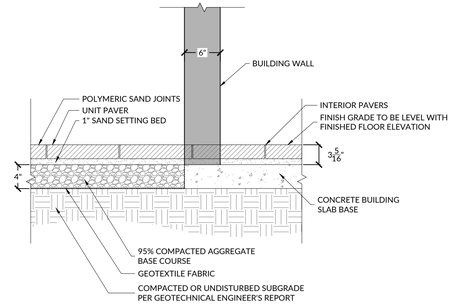
04 LIGHT-DUTY PEDESTRIAN UNIT PAVERS — SECTION
SCALE: 1" = 1'-0"



NOTES:

1. PROVIDE CONTROL JOINT EVERY 4' MIN.
2. PROVIDE ¾" EXPANSION JOINT EVERY 16' MIN.

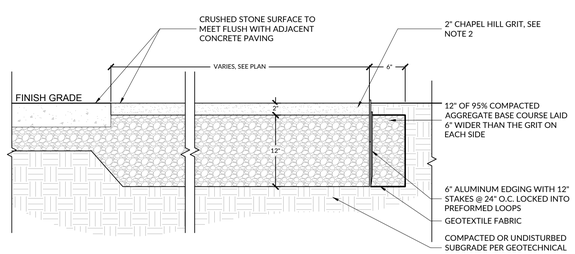
05 HEAVY-DUTY VEHICULAR PAVERS ON CONCRETE — SECTION
SCALE: 3/4" = 1'-0"



NOTES:

1. UNIT PAVER BASIS OF DESIGN IS LIGHT-DUTY COMMERCIAL-GRADE CONCRETE PAVERS (2 1/4" THICK).
2. UNIT PAVERS ARE TO BE LAID IN PATTERNS AS SHOWN ON PLANS AND MEET FLUSH WITH ADJACENT PAVING.
3. POLYMERIC JOINTING SAND IS TO MATCH PAVERS. COLOR IS TO BE SELECTED FROM MANUFACTURER'S FULL RANGE.

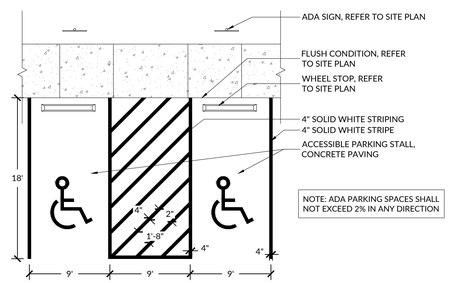
06 UNIT PAVER TRANSITION — SECTION
SCALE: 1" = 1'-0"



NOTES:

1. PROVIDE MAX 2% CROSS-SLOPE FOR ADEQUATE DRAINAGE.
2. LAY CHAPEL HILL GRIT (CRUSHED GRANITE) IN 1" LIFTS, SOAK THOROUGHLY, SIT FOR 2-4 HOURS & COMPACT WITH HEAVY ROLLER OR VIBRATING PLATE COMPACTOR UNTIL 2" DEPTH ACHIEVED.

07 CHAPEL HILL GRIT GRAVEL — SECTION
SCALE: 1" = 1'-0"



08 ADA STRIPING — PLAN
SCALE: 1 1/2" = 1'-0"

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CONSTRUCTION PLANS
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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 2077 DANIEL B. WHITLEY

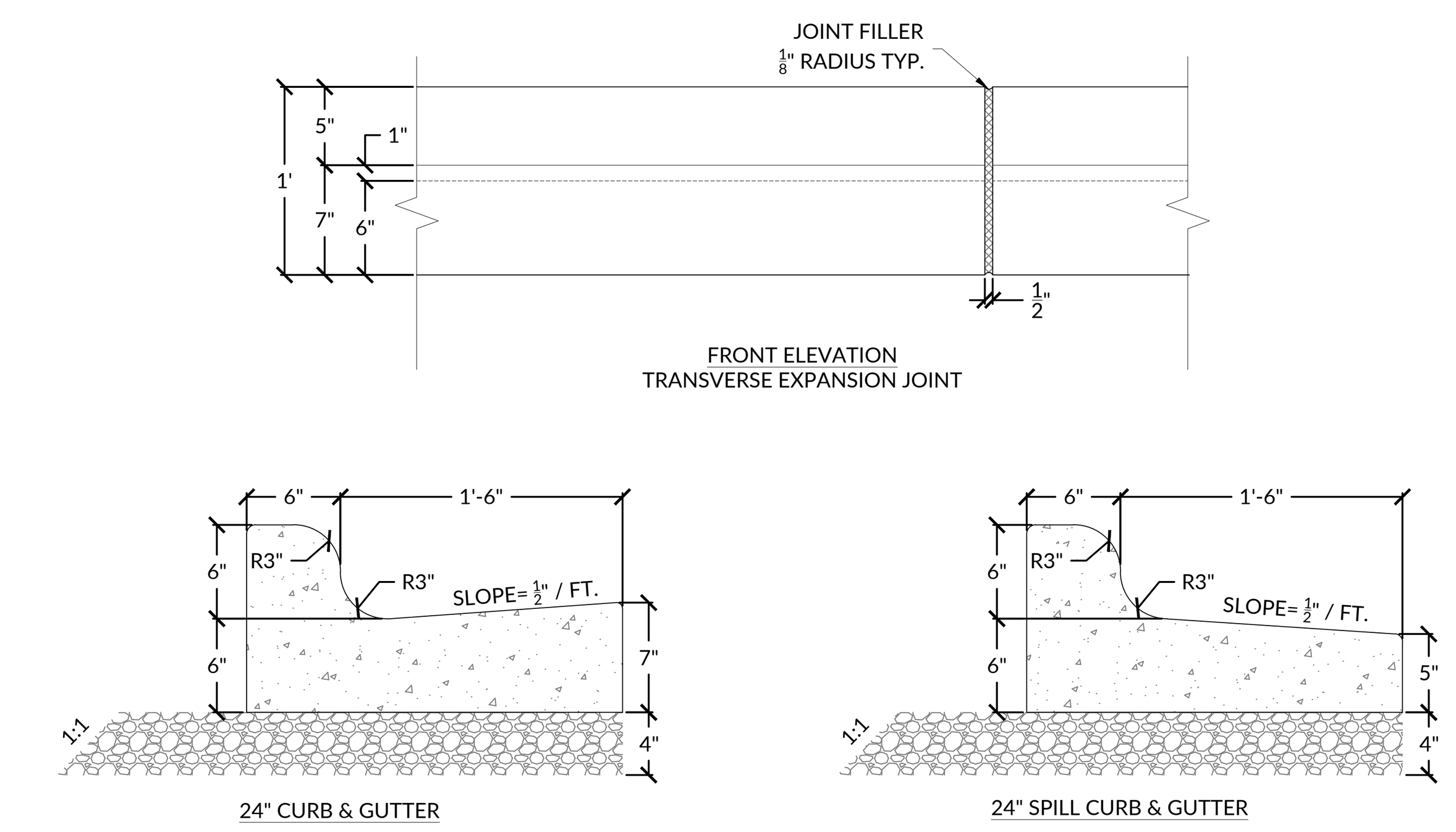
DocuSigned by:
93C512AC741A4C1...
5/27/2025

INITIAL PLAN DATE: 05/23/2025
REVISIONS:

WR JOB NUMBER	23-1177
DRN: WR	DGN: WR CKD: WR

SITE DETAILS

C5.01

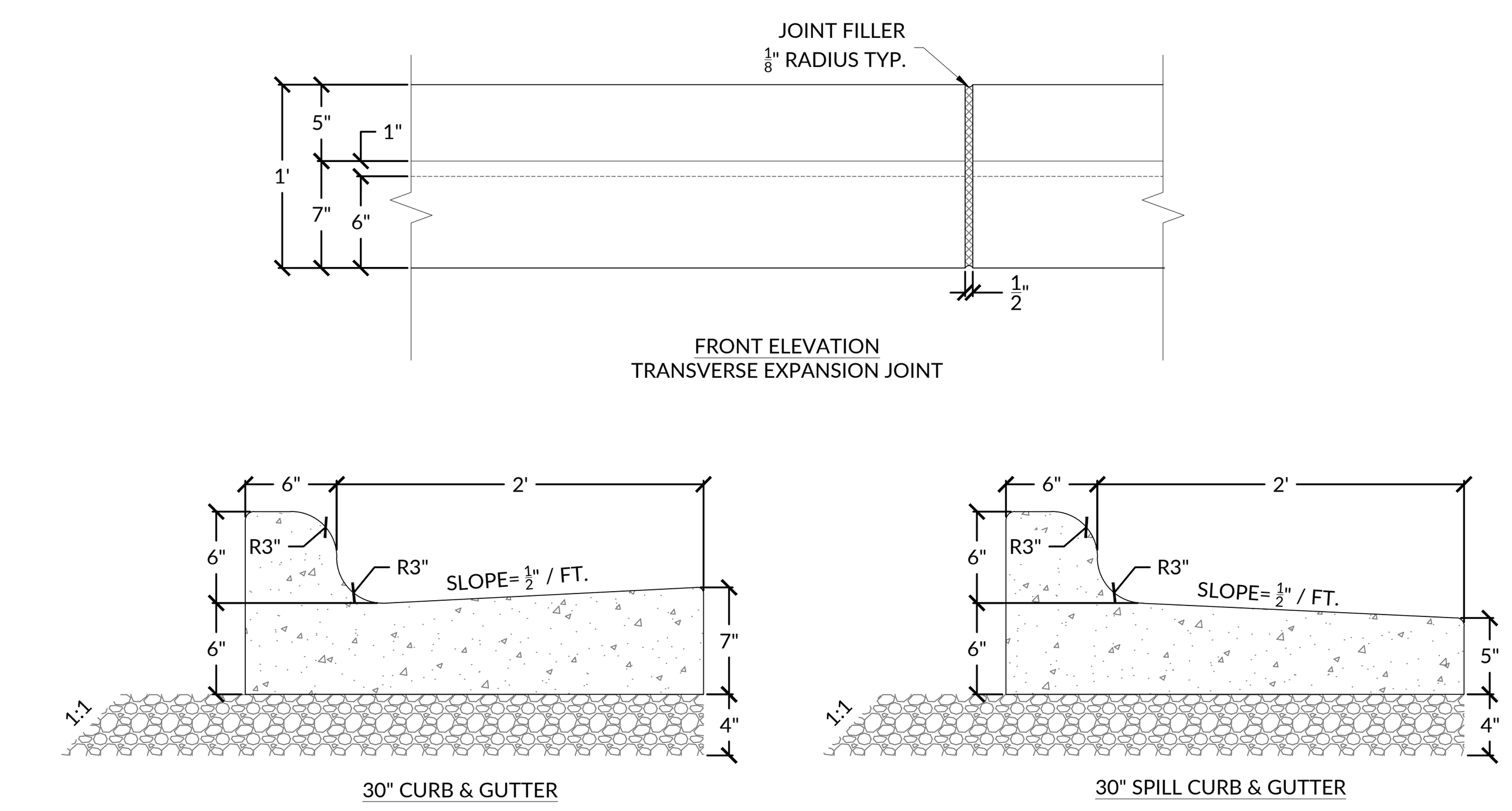


NOTES:

1. PROVIDE 10' MAXIMUM BETWEEN CONTROL JOINTS. 15' MAXIMUM BETWEEN DUMMY JOINTS ON MACHINE POURS.
2. $\frac{1}{2}$" EXPANSION JOINT EVERY 50 FEET.
3. 3,000 PSI CONCRETE MINIMUM, 4" SLUMP MAXIMUM.
4. LIQUID MEMBRANE CURBING COMPOUND SHALL MEET THE REQUIREMENTS OF SECTION 1026-2 OF NCDOT STANDARDS & SPECIFICATIONS FOR ROADS & STRUCTURES.
5. ALL CONSTRUCTION JOINTS SHALL BE FILLED WITH JOINT FILLER & SEALER IN ACCORDANCE WITH NCDOT ROADWAY STANDARD DETAIL 846.01. THE JOINT MATERIAL SHALL CONFORM TO SECTION 1028-2 OF NCDOT STANDARDS & SPECIFICATIONS FOR ROADS & STRUCTURES.
6. REFER TO NCDOT DETAIL 845.01 FOR CURB & GUTTER SUPERELEVATION RATES.

01 24IN CURB AND GUTTER — SECTION

SCALE: 1" = 1'-0"

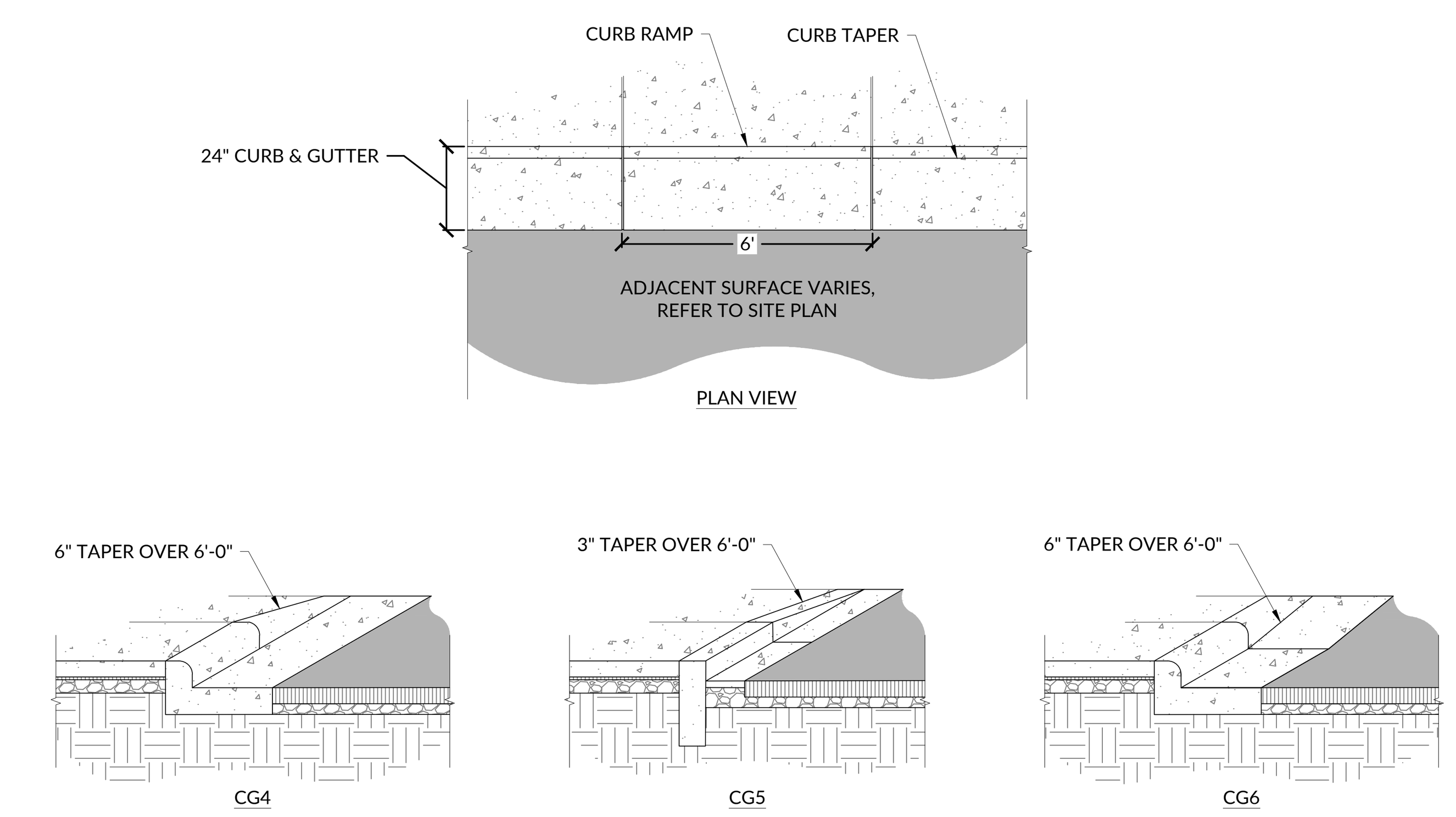


NOTES:

1. PROVIDE 10' MAXIMUM BETWEEN CONTROL JOINTS. 15' MAXIMUM BETWEEN DUMMY JOINTS ON MACHINE POURS.
2. $\frac{1}{2}$" EXPANSION JOINT EVERY 50 FEET.
3. 3,000 PSI CONCRETE MINIMUM, 4" SLUMP MAXIMUM.
4. LIQUID MEMBRANE CURBING COMPOUND SHALL MEET THE REQUIREMENTS OF SECTION 1026-2 OF NCDOT STANDARDS & SPECIFICATIONS FOR ROADS & STRUCTURES.
5. ALL CONSTRUCTION JOINTS SHALL BE FILLED WITH JOINT FILLER & SEALER IN ACCORDANCE WITH NCDOT ROADWAY STANDARD DETAIL 846.01. THE JOINT MATERIAL SHALL CONFORM TO SECTION 1028-2 OF NCDOT STANDARDS & SPECIFICATIONS FOR ROADS & STRUCTURES.
6. REFER TO NCDOT DETAIL 845.01 FOR CURB & GUTTER SUPERELEVATION RATES.

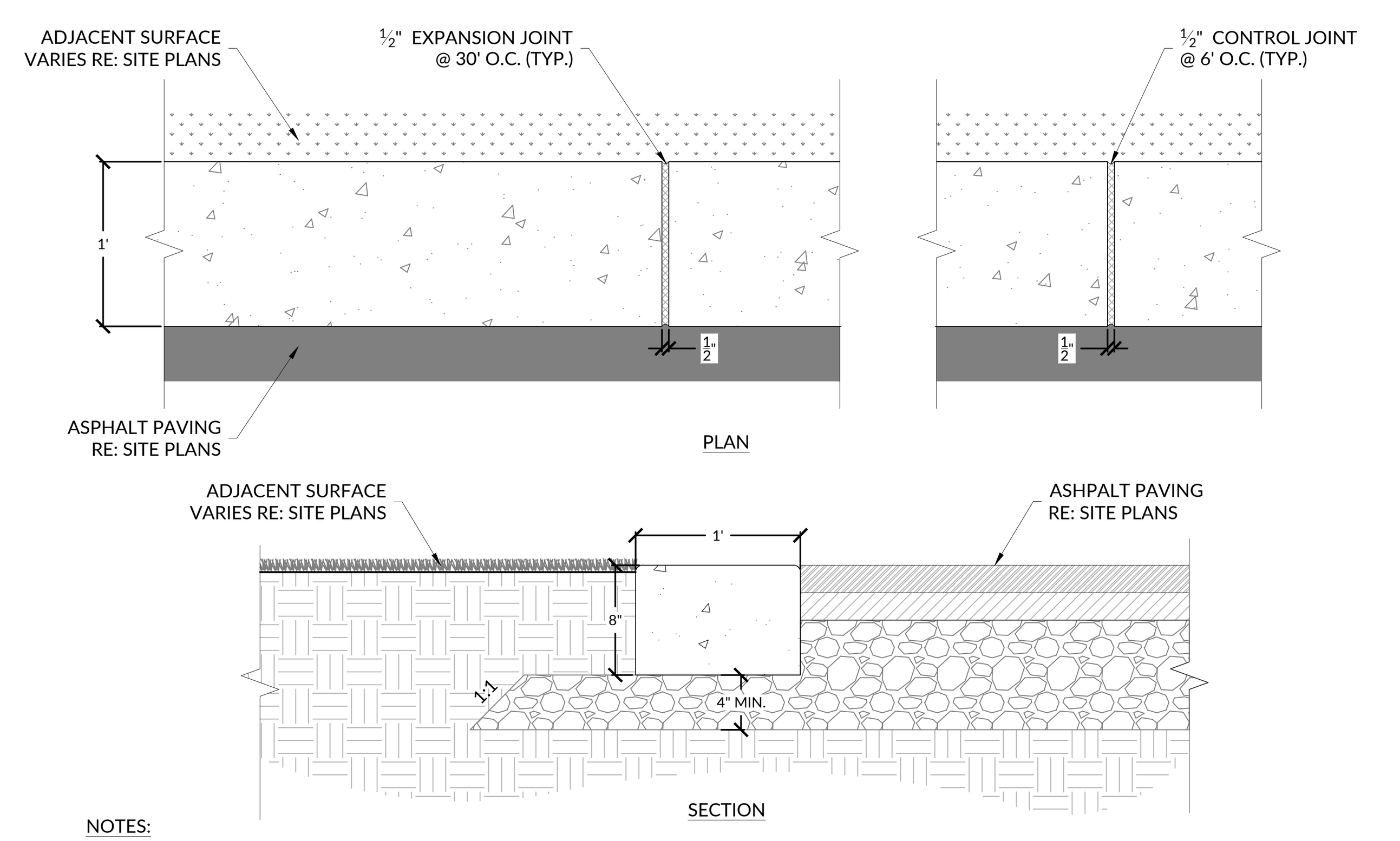
02 30IN CURB AND GUTTER — SECTION

SCALE: 1" = 1'-0"



03 CURB TAPER — SECTION

SCALE: 1/4" = 1'-0"

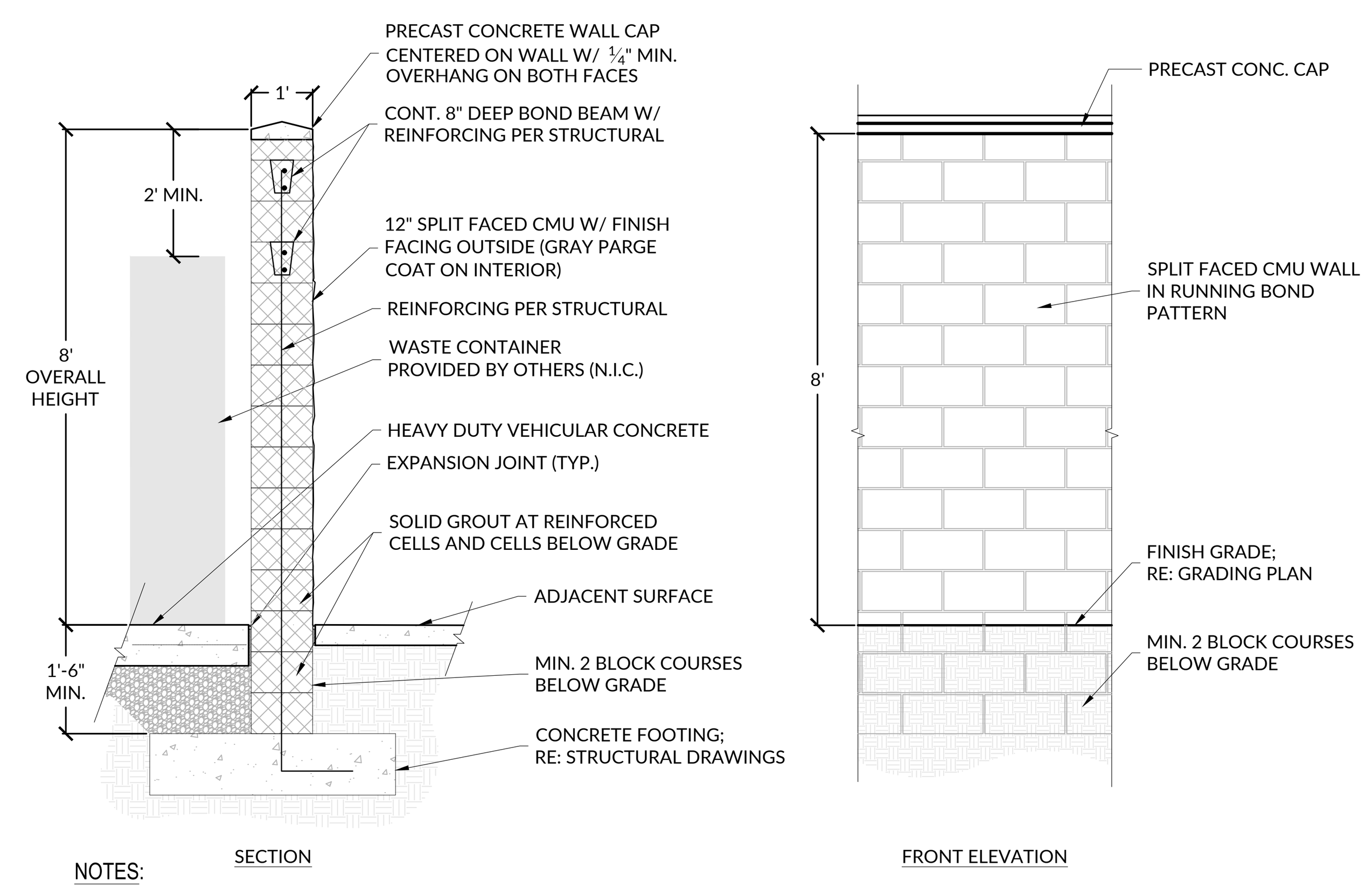


NOTES:

1. PROVIDE 10' MAXIMUM BETWEEN CONTROL JOINTS. 15' MAXIMUM BETWEEN DUMMY JOINTS ON MACHINE POURS.
2. $\frac{1}{2}$" EXPANSION JOINT EVERY 50 FEET.
3. 3,000 PSI CONCRETE MINIMUM, 4" SLUMP MAXIMUM.
4. LIQUID MEMBRANE CURBING COMPOUND SHALL MEET THE REQUIREMENTS OF SECTION 1026-2 OF NCDOT STANDARDS & SPECIFICATIONS FOR ROADS & STRUCTURES.
5. ALL CONSTRUCTION JOINTS SHALL BE FILLED WITH JOINT FILLER & SEALER IN ACCORDANCE WITH NCDOT ROADWAY STANDARD DETAIL 846.01. THE JOINT MATERIAL SHALL CONFORM TO SECTION 1028-2 OF NCDOT STANDARDS & SPECIFICATIONS FOR ROADS & STRUCTURES.
6. REFER TO NCDOT DETAIL 845.01 FOR CURB & GUTTER SUPERELEVATION RATES.

04 12IN FLUSH CURB — SECTION

SCALE: 1" = 1'-0"

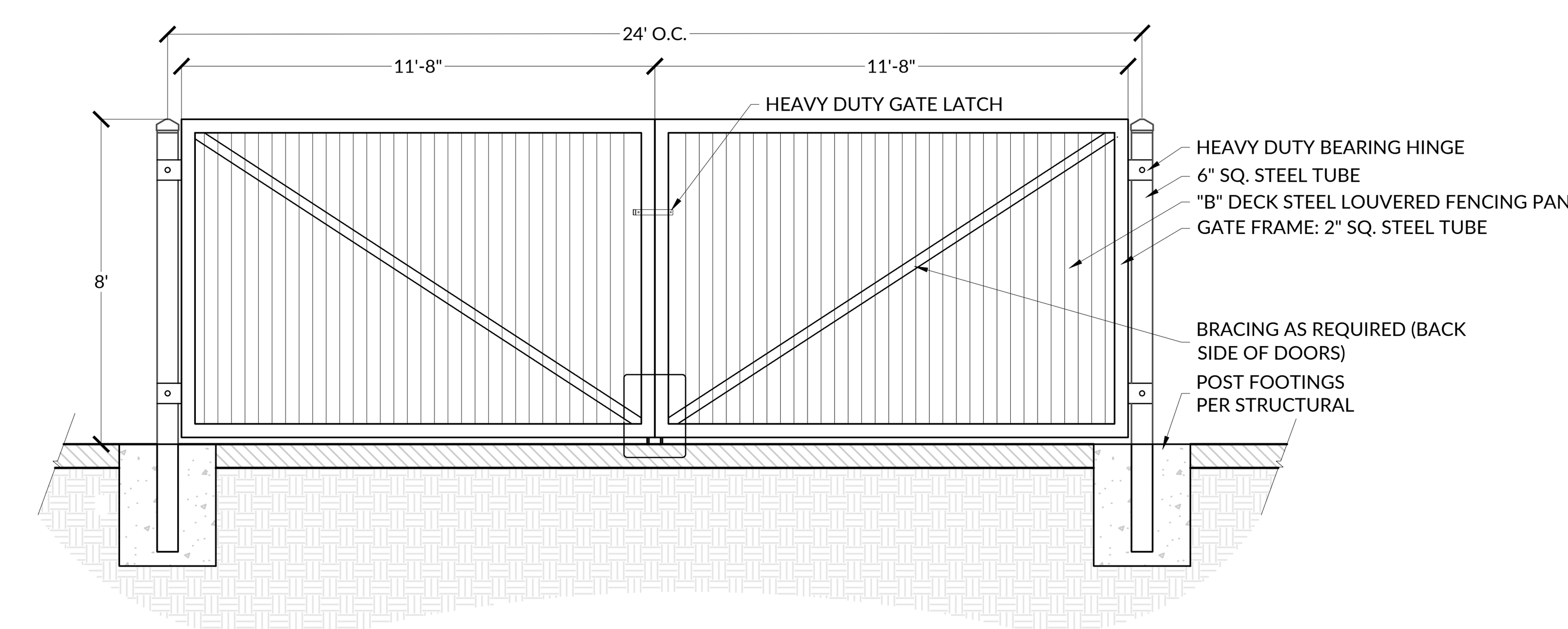


NOTES:

1. RETAINING WALL AND REINFORCING ARE TO MEET THE REQUIREMENTS SET FORTH IN THE STRUCTURAL DRAWINGS.
2. SPLIT FACE CMU IS TO HAVE INTEGRAL GRAY COLOR. OWNER TO SELECT COLOR FROM MFR'S FULL RANGE.
3. THIS DETAIL SHOWN FOR REFERENCE ONLY; REFER TO STRUCTURAL DRAWINGS.

05 DUMPSTER ENCLOSURE WALL — SECTION

SCALE: 3/8" = 1'-0"

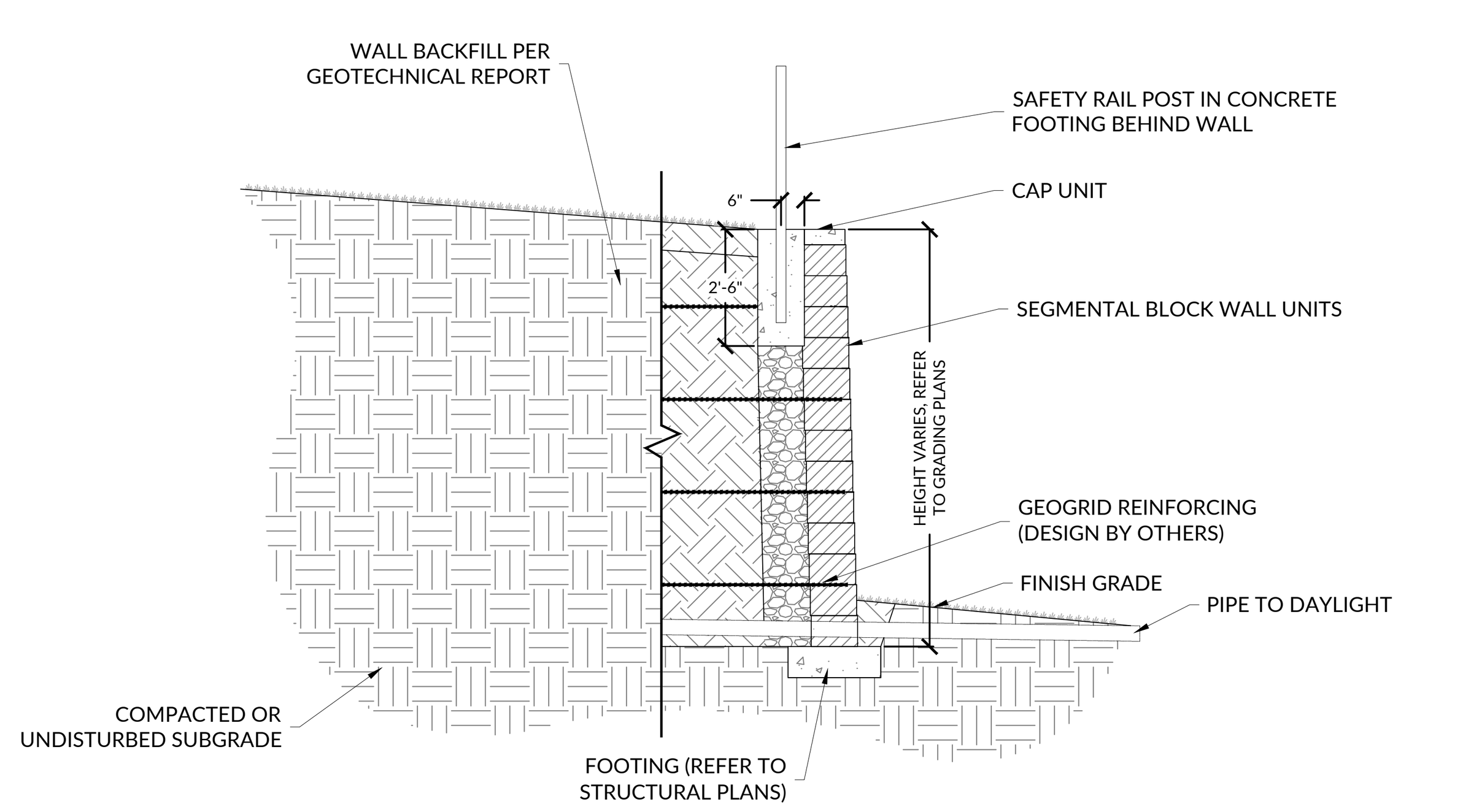


NOTES:

1. GATE ENCLOSURE BASIS OF DESIGN: SECURITY GATE SYSTEM WITH SHADOW 100 INFILL PANELS BY AMETCO MANUFACTURING CORPORATION (www.ametco.com). GATE TO BE 100% OPAQUE.
2. ALL GATE COMPONENTS ARE TO BE STEEL WITH BLACK POWDER COAT FINISH.
3. ALL GATE HARDWARE IS TO BE HEAVY DUTY GALVANIZED STEEL TO MEET MANUFACTURER'S REQUIREMENTS.
4. FINAL GATE ENCLOSURE DESIGN AND DETAILS ARE TO BE COORDINATED THROUGH SHOP DRAWINGS PROVIDED BY THE CONTRACTOR.

06 DUMPSTER ENCLOSURE GATE — SECTION

SCALE: 1/4" = 1'-0"

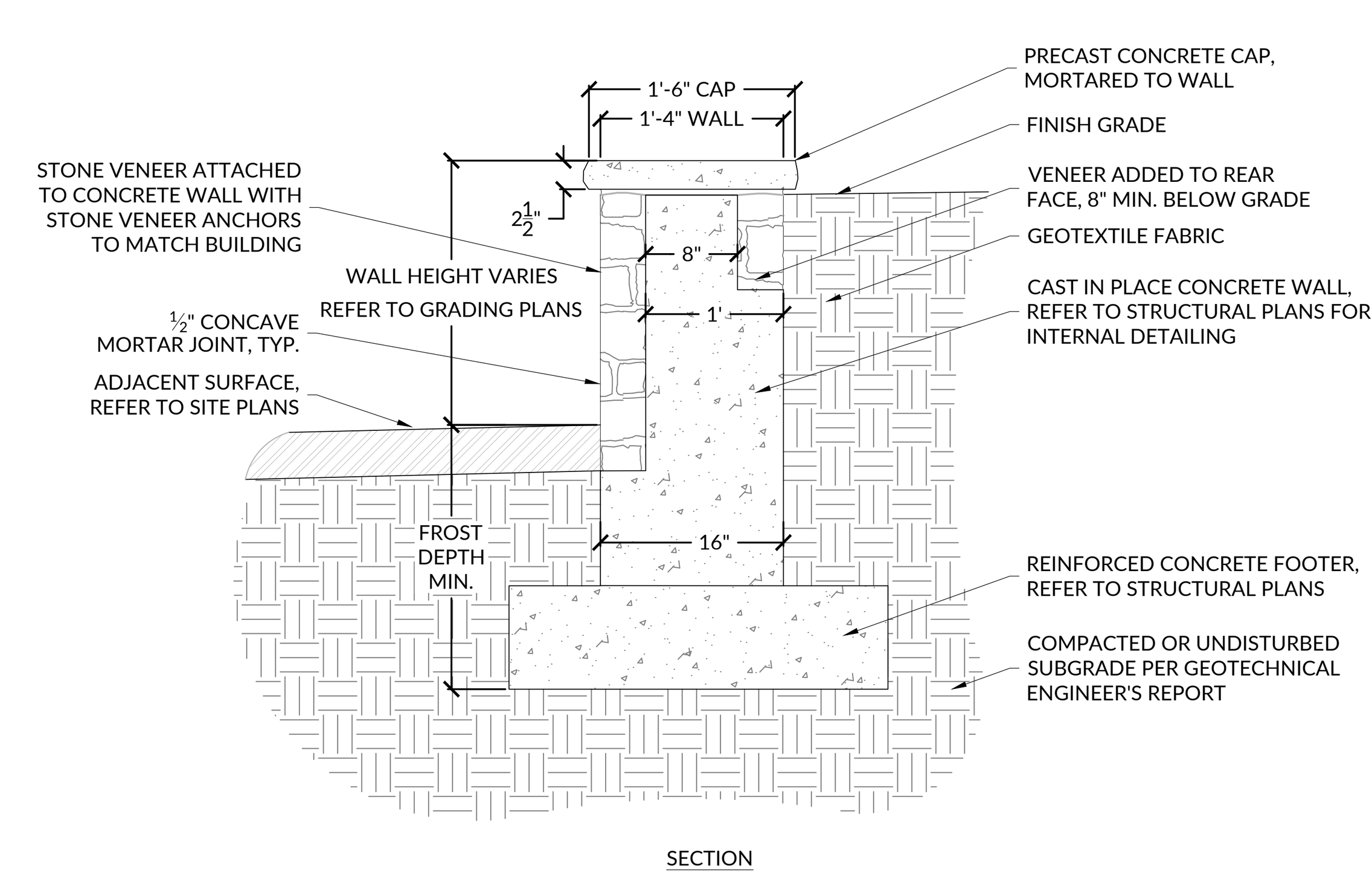


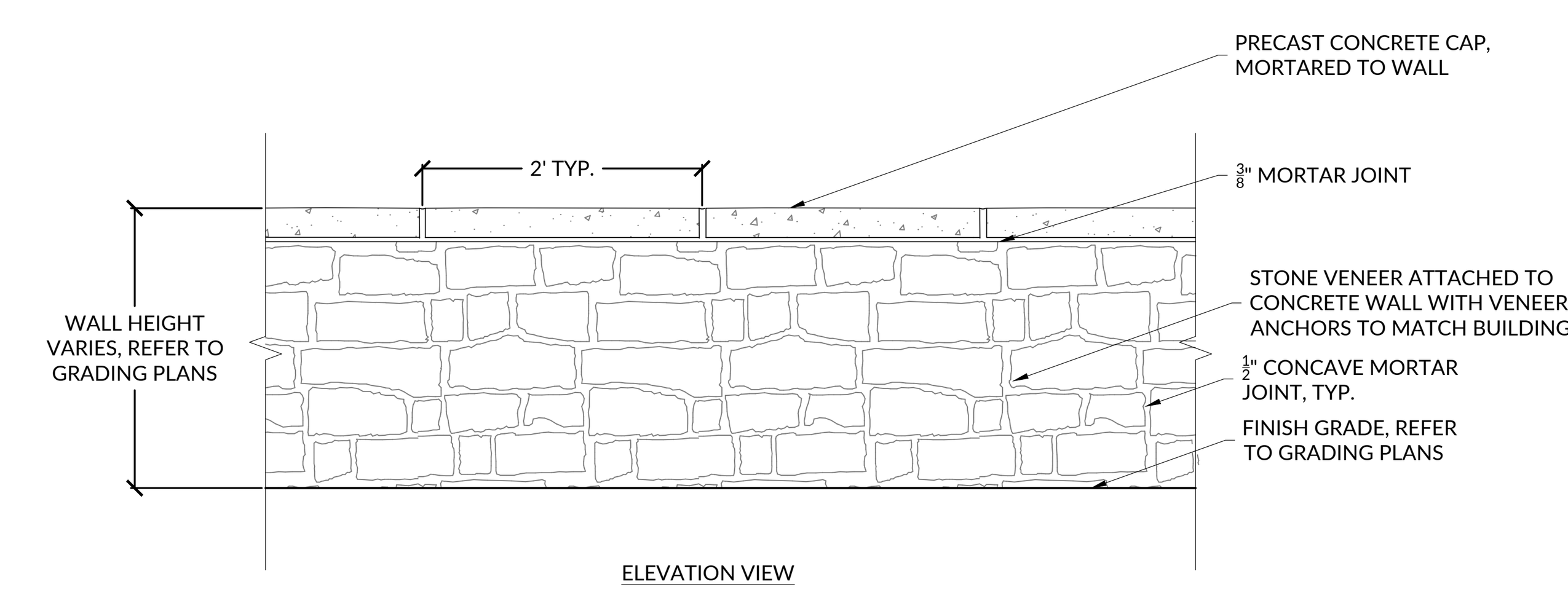
NOTES:

1. THE PURPOSED OF THIS DETAIL IS TO SHOW THE GENERAL CONFIGURATION OF A TYPICAL SEGMENTAL BLOCK WALL. ALL CONSTRUCTION DETAILS ARE TO BE INCLUDED WITH STRUCTURAL DESIGN.
2. THE CONTRACTOR MUST ENGAGE A QUALIFIED STRUCTURAL ENGINEER IN THE STATE OF THE PROJECT FOR STRUCTURAL WALL DESIGNS

07 BASIS OF DESIGN FOR SEGMENTAL BLOCK RETAINING WALL — SECTION

SCALE: 1/4" = 1'-0"





NOTES:

1. RETAINING WALL AND REINFORCING ARE TO MEET THE REQUIREMENTS SET FORTH IN THE STRUCTURAL DRAWINGS.
2. STONE VENEER BASIS OF DESIGN: PRO-FIT ALPINE LEDGESTONE BY WESTLAKE ROYAL STONE, LLC (www.culturedstone.com) OR APPROVED EQUAL. OWNER TO SELECT COLOR FROM MANUFACTURER'S FULL RANGE.
3. WALL CAP BASIS OF DESIGN: WALL CAP BY HARTSTONE TILE (www.hartstonetile.com) OR APPROVED EQUAL. COLOR IS TO BE SELECTED BY OWNER WITH SMOOTH FINISH. CURVED WALLS SHALL HAVE CURVED WALL CAPS TO MATCH RADIUS OF WALL.

08 CAST IN PLACE CONCRETE RETAINING WALL WITH STONE VENEER — SECTION

SCALE: 3/4" = 1'-0"

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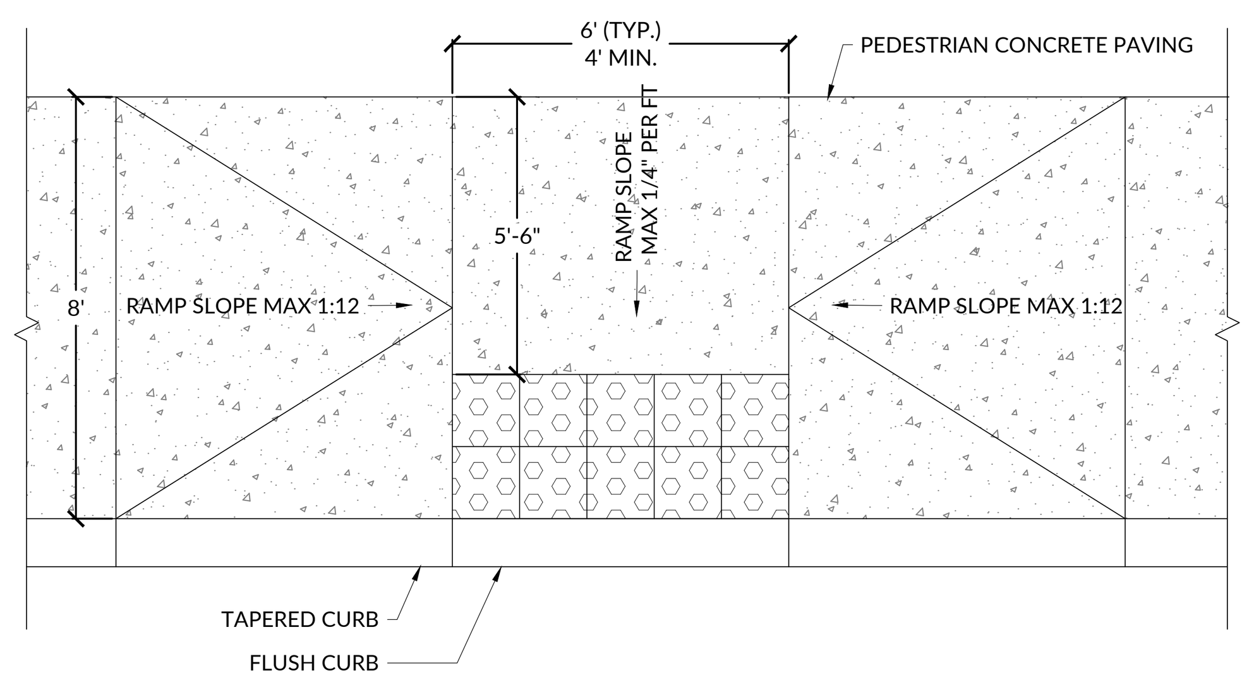
NORTH CAROLINA LANDSCAPE ARCHITECT 2077 DANIEL B. WHATLEY
DocuSigned by: 93C512AC741A4C1...
5/27/2025

INITIAL PLAN DATE: 05/23/2025
REVISIONS:
-
-
-

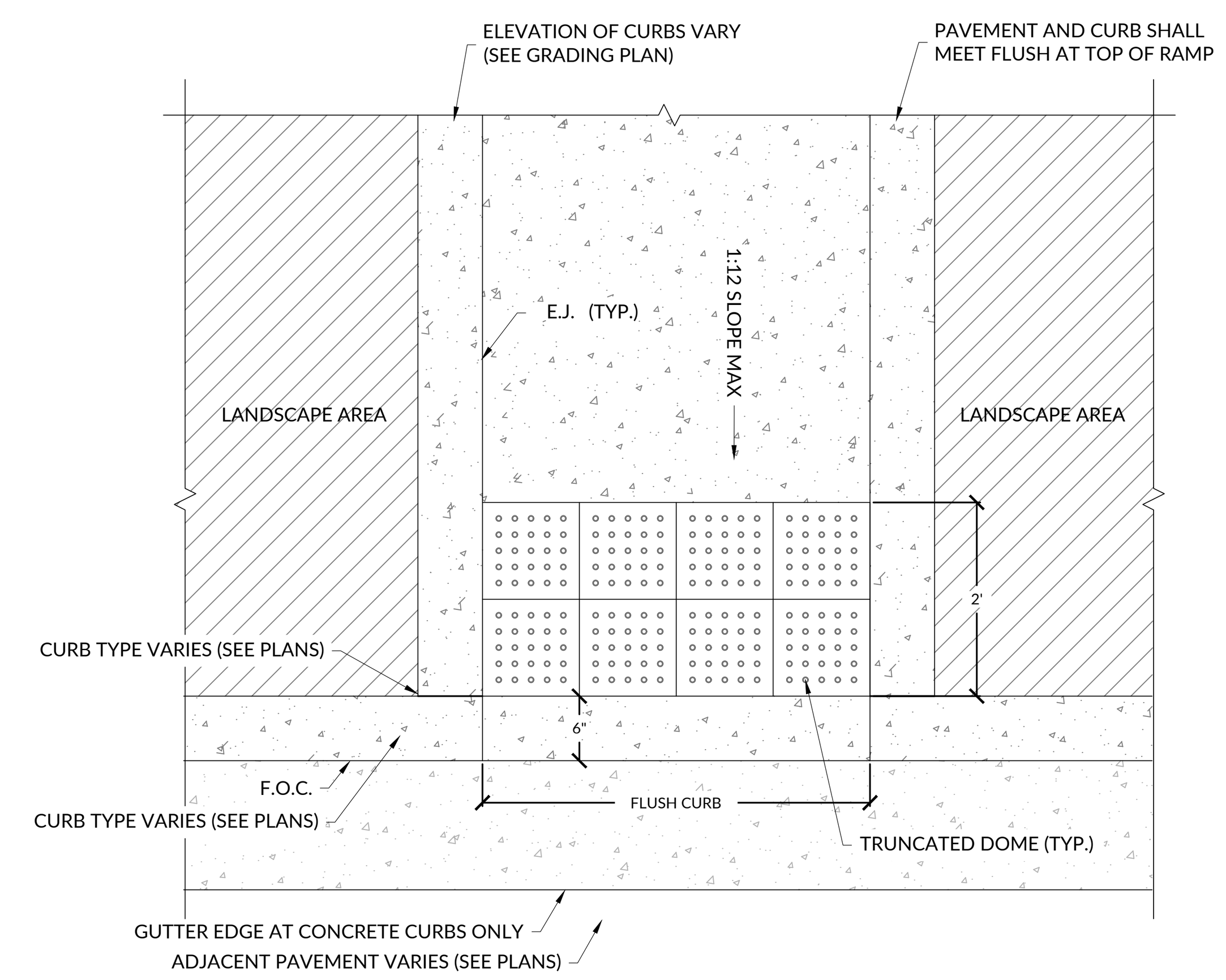
WR JOB NUMBER	23-1177
DRN: WR DGN: WR	CKD: WR

SITE DETAILS

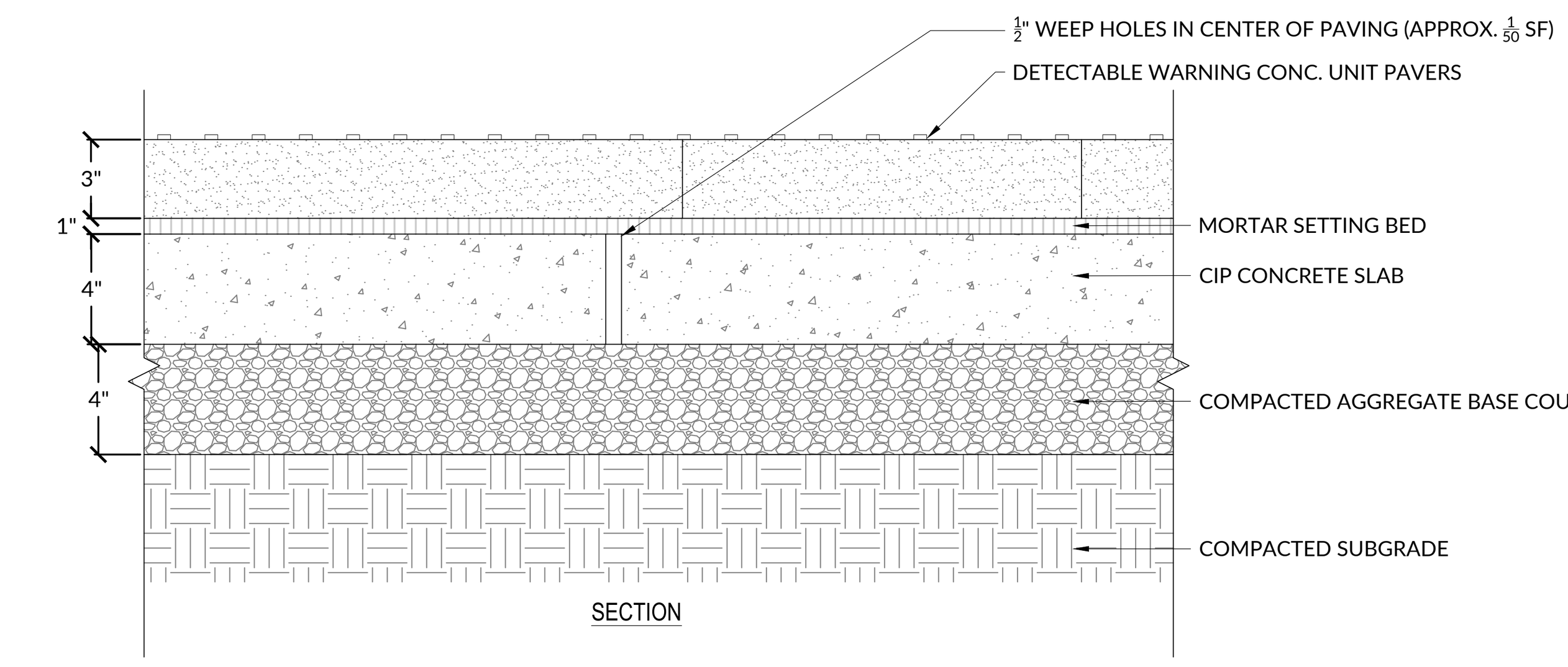
C5.02

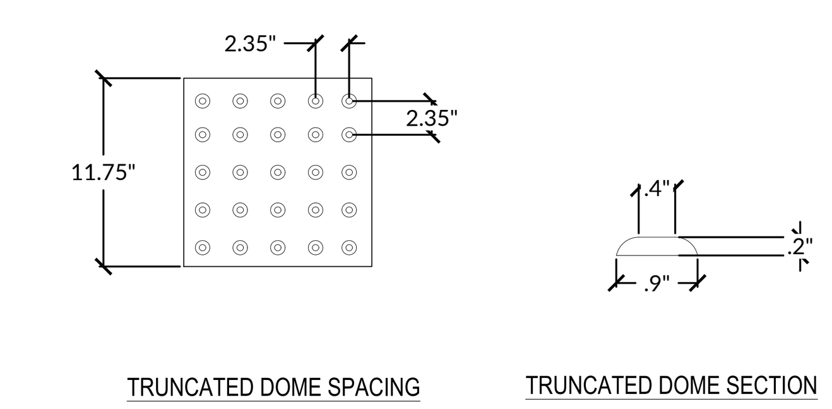


01 ADA CURB RAMP — PLAN
SCALE: 3/4" = 1'-0"



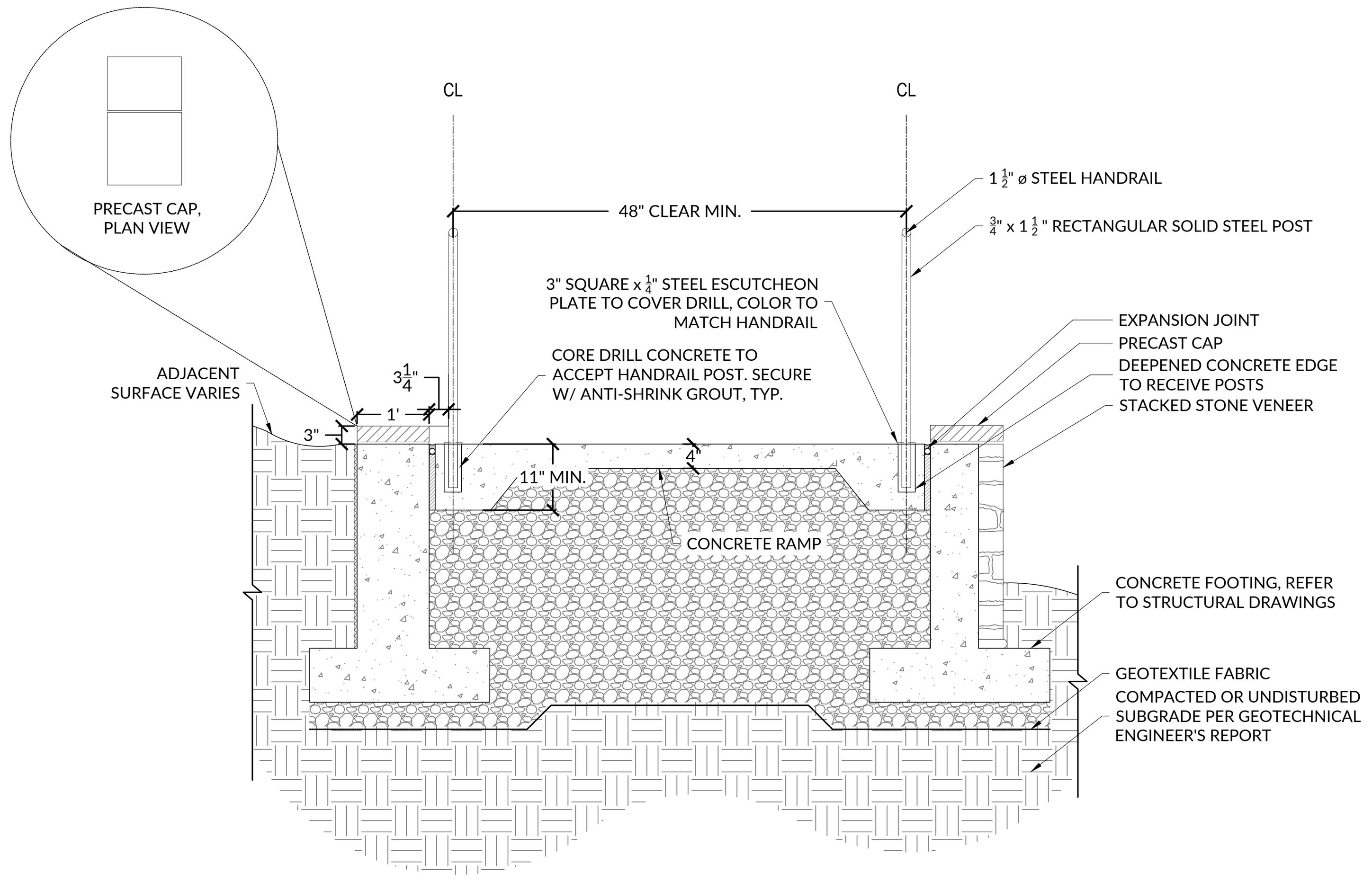
02 ADA DIRECTIONAL RAMP — PLAN
SCALE: 3/4" = 1'-0"



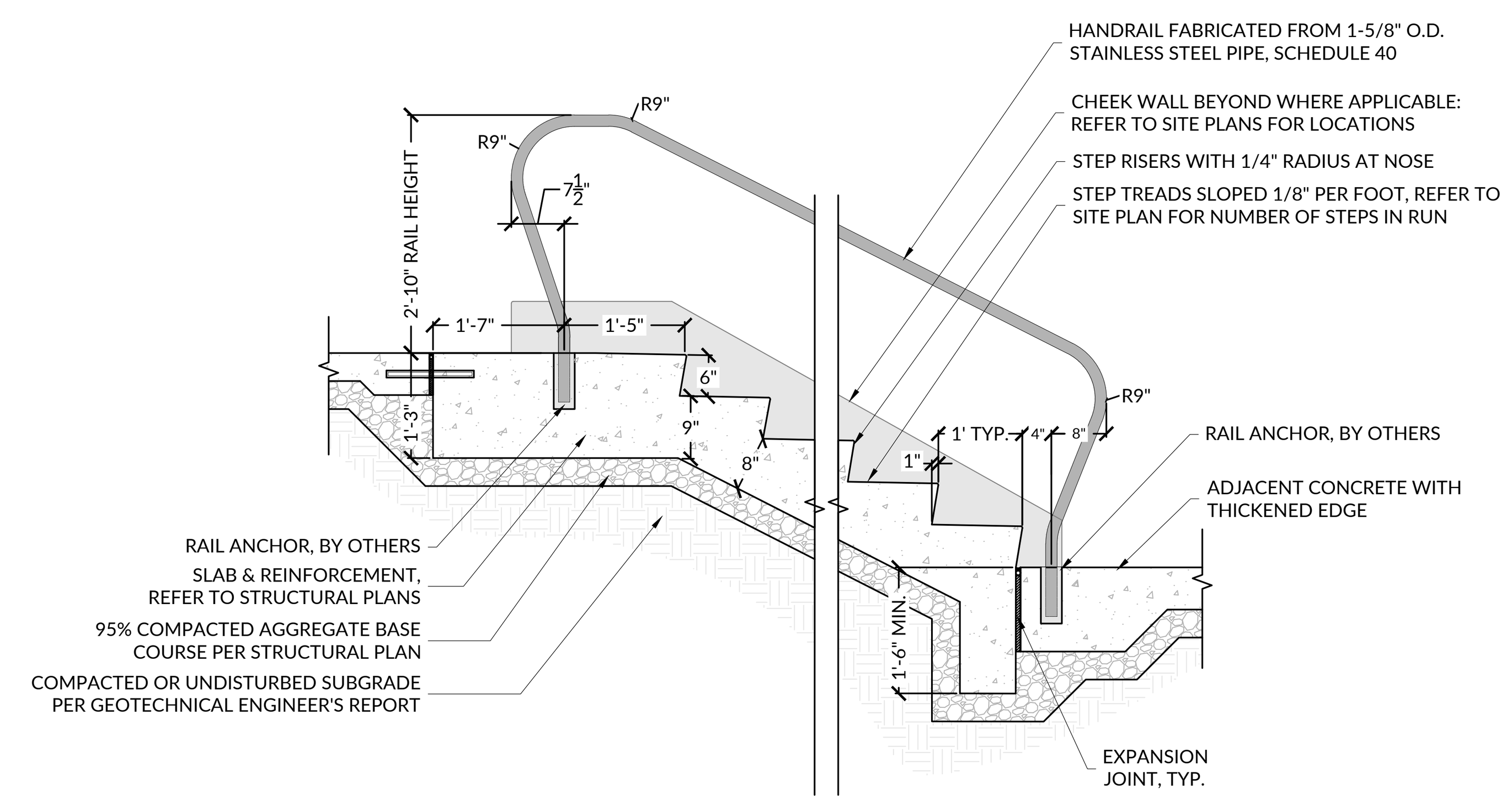


NOTE:
1. ALL DETECTABLE WARNINGS SHALL BE UNIT PAVERS OR TILES OR MONOLITHIC MATS.
2. WIDTH OF DETECTABLE WARNING STRIP SHALL BE EQUAL TO WIDTH OF CURB RAMP.
3. LENGTH OF DETECTABLE WARNING SHALL BE 2'.
4. DETECTABLE WARNING DOMES SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINANT DIRECTION OF TRAVEL.
5. DETECTABLE WARNINGS TO BE LOCATED 6"-8" FROM FACE OF CURB.
6. TRUNCATED DOME PAVERS/TILE TO MEET FLUSH WITH ADJACENT MATERIALS.
7. INSTALL FULL PAVERS UNLESS OTHERWISE NOTED.

03 TRUNCATED DOMES — SECTION
SCALE: 1" = 1'-0"

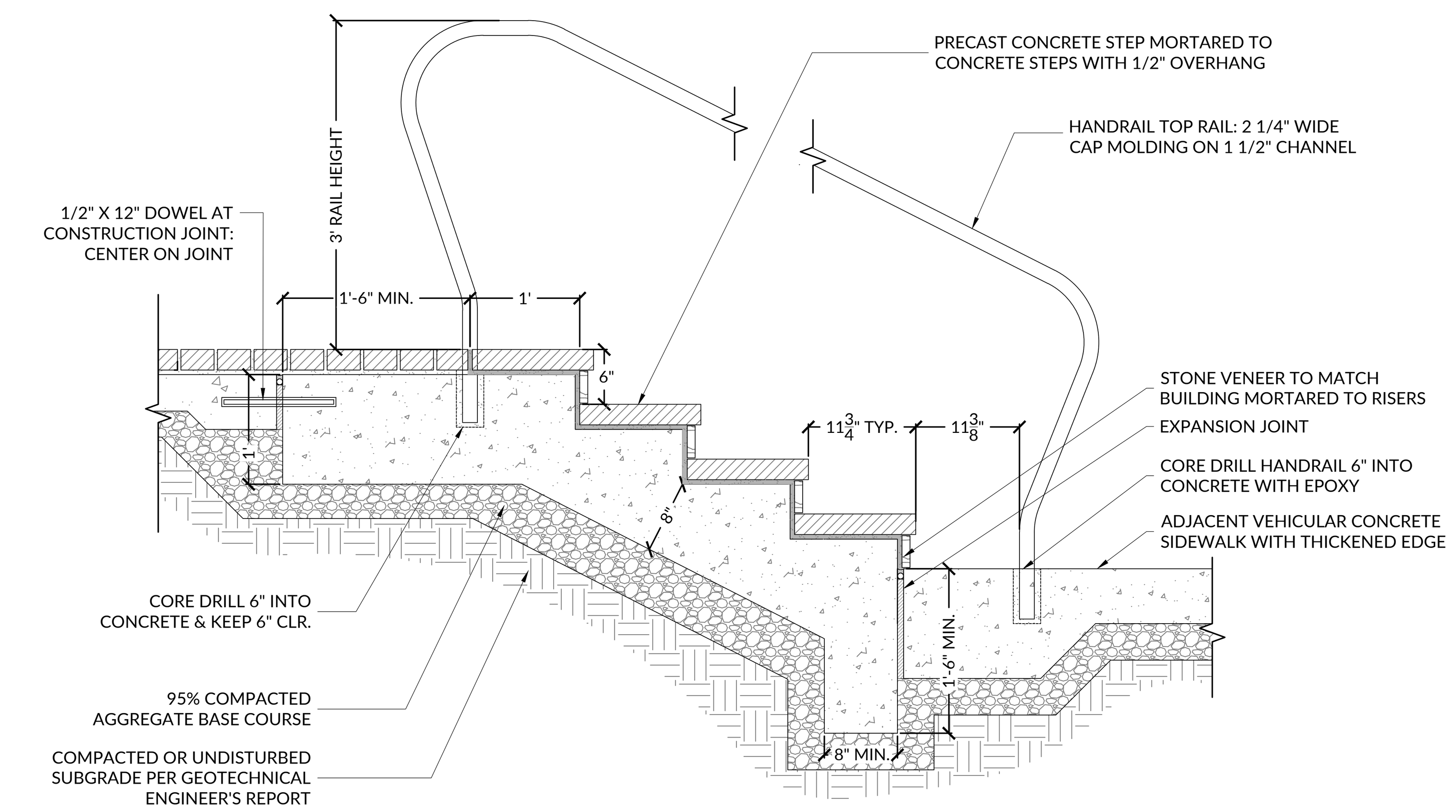


04 CONCRETE RAMP WITH CHEEK WALLS — SECTION
SCALE: 1/2" = 1'-0"



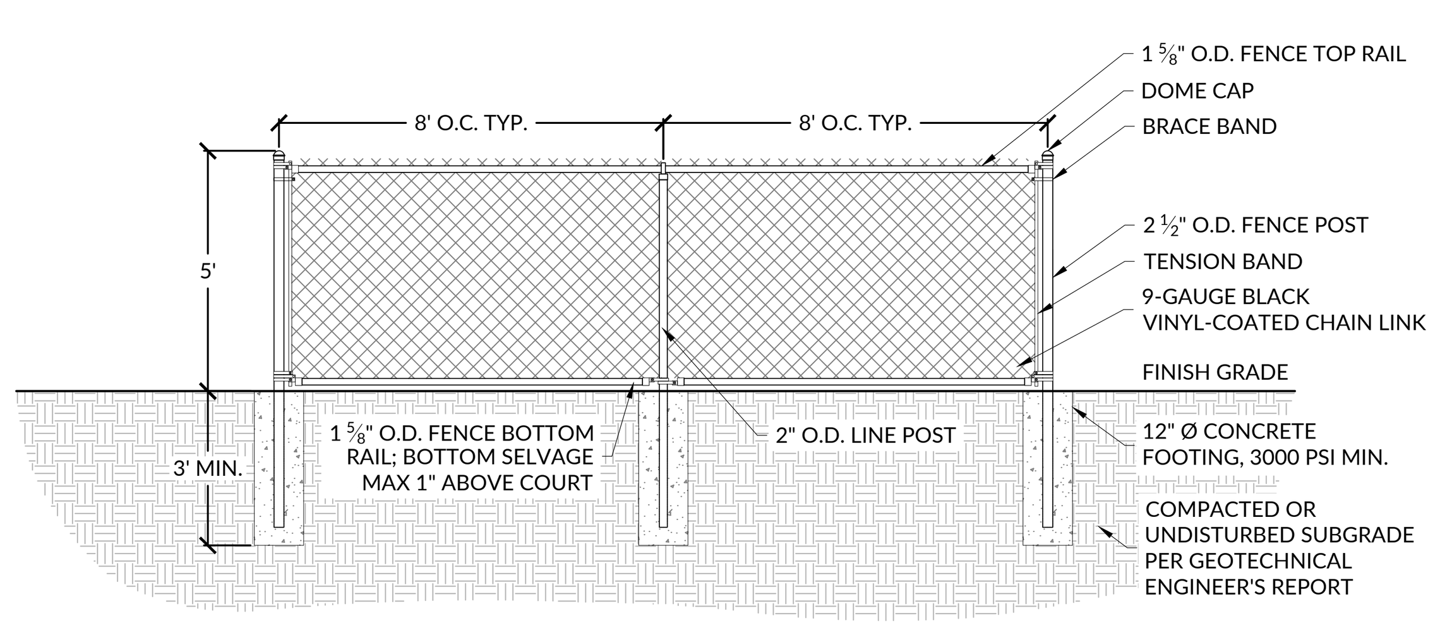
NOTES:
1. THE PURPOSE OF THIS DETAIL IS TO SHOW THE GENERAL CONFIGURATION OF THE STAIRS AND HANDRAILS. ALL CONSTRUCTION DETAILS ARE SHOWN ON STRUCTURAL PLANS.
2. HANDRAIL COMPONENTS ARE TO SCHEDULE 40 STAINLESS STEEL. ALL CONNECTIONS ARE TO BE WELDED AND FINISHED SUCH THAT THERE ARE NO SHARP EDGES.
3. FOR STEP RUNS LONGER THAN 5 STEP RISERS, HANDRAILS SHALL INCLUDE A MID-POST, INSTALLED IN THE MIDDLE STEP OF THE RUN. IN LONGER STEP RUNS WHERE MULTIPLE POSTS ARE REQUIRED, THE MID-POSTS SHALL BE EQUALLY SPACED IN THE STEP RUN.
4. REINFORCING AND FOUNDATIONS FOR STEPS ARE SHOWN FOR REFERENCE ONLY: REFER TO STRUCTURAL DRAWINGS.
5. THE CONTRACTOR MUST ENGAGE A QUALIFIED STRUCTURAL ENGINEER IN THE STATE OF THE PROJECT FOR STRUCTURAL DESIGN.

05 CONCRETE STAIRS — SECTION
SCALE: 1/2" = 1'-0"



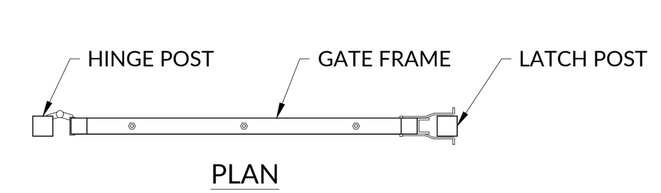
NOTES:
1. BRICK PAVERS ARE TO MATCH ADJACENT SIDEWALK BRICK PAVERS.
2. HANDRAIL COMPONENTS ARE TO BE WROUGHT IRON WITH BLACK POWDER COAT FINISH. ALL CONNECTIONS ARE TO BE WELDED AND FINISHED SUCH THAT THERE ARE NO SHARP EDGES.

06 UNIT PAVER STAIRS — SECTION
SCALE: 3/4" = 1'-0"

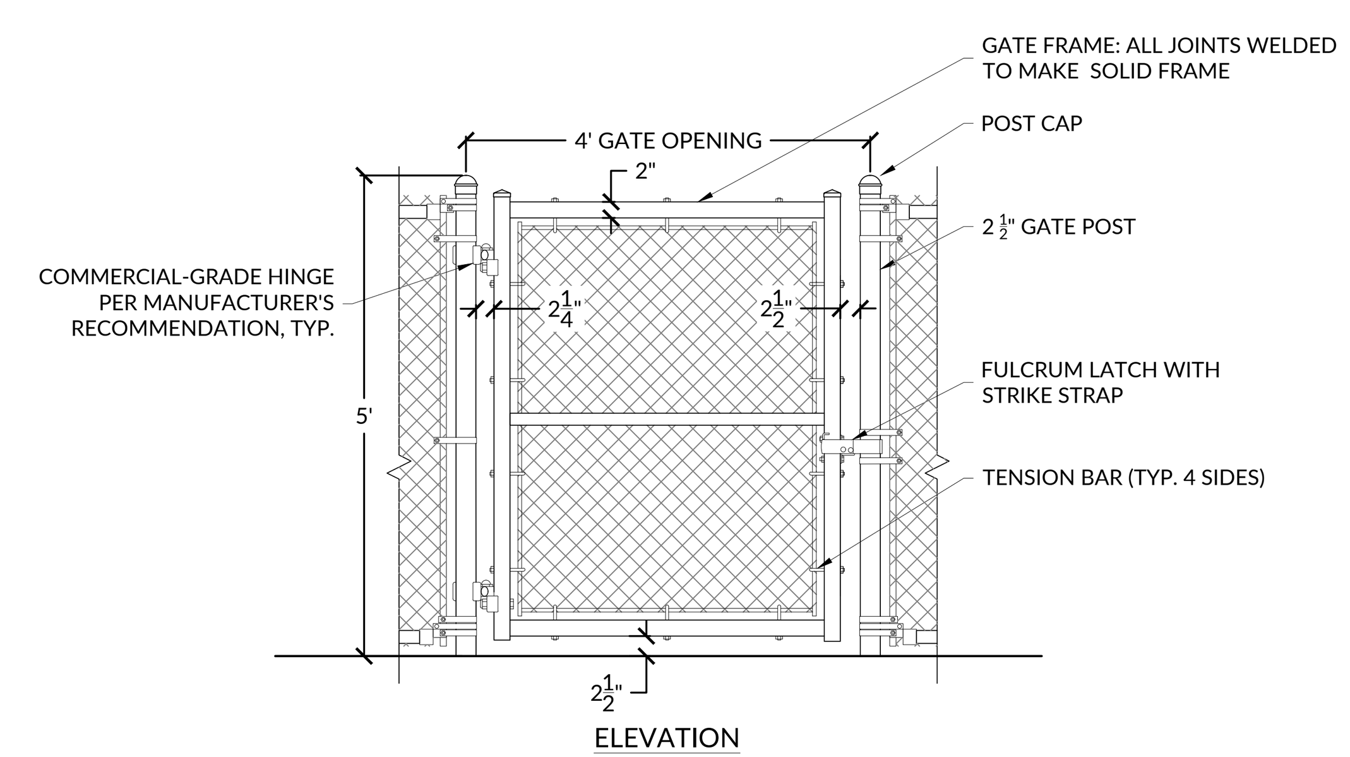


NOTES:
1. CONCRETE FOOTINGS TO BE SET BELOW THE FROST LINE.
2. ALL FENCE MATERIALS TO BE BLACK VINYL-COATED STEEL.
3. ALL HARDWARE TO BE GALVANIZED STEEL.
4. GATE FRAME, HINGES, AND HARDWARE ARE TO MEET REQUIREMENTS OF FENCE MANUFACTURER.

07 60IN CHAINLINK FENCE — SECTION
SCALE: 1/4" = 1'-0"



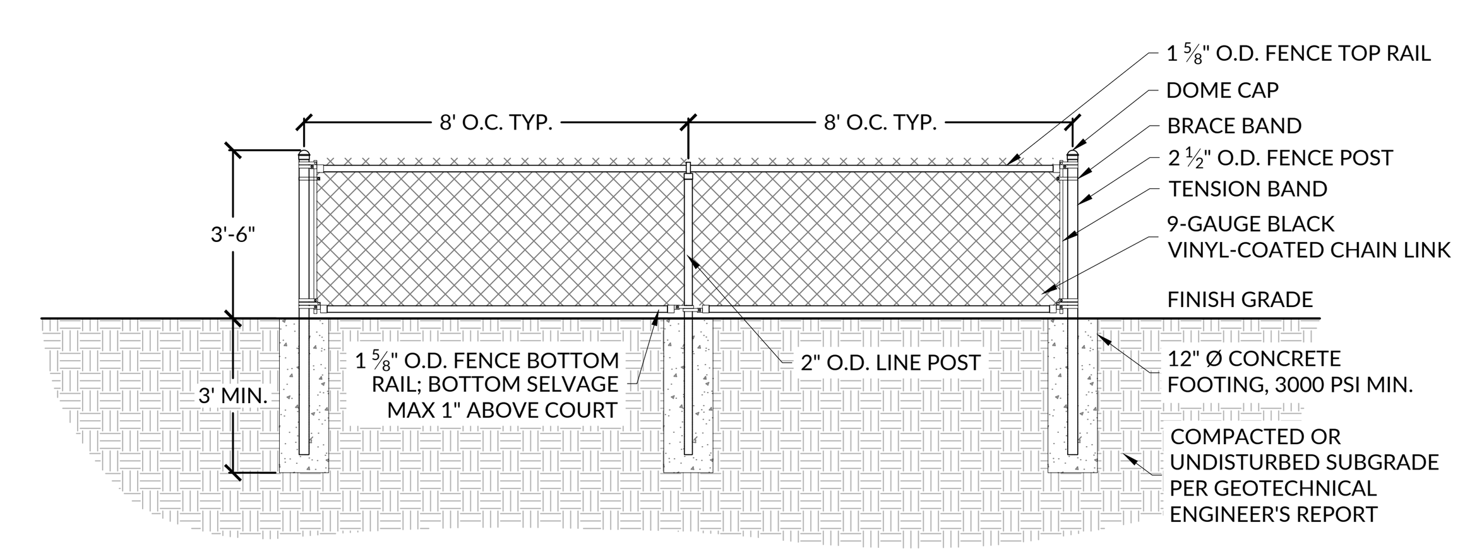
PLAN



ELEVATION

NOTES:
1. ALL FENCE AND GATE MATERIALS TO BE VINYL-COATED STEEL.
2. ALL FENCE AND GATE HARDWARE TO BE HEAVY DUTY AND GALVANIZED STEEL.
3. GATE FRAME, HINGES AND HARDWARE ARE TO MEET REQUIREMENTS OF FENCE MANUFACTURER.

08 60IN CHAINLINK GATE — SECTION
SCALE: 1/2" = 1'-0"



NOTES:
1. CONCRETE FOOTINGS TO BE SET BELOW THE FROST LINE.
2. ALL FENCE MATERIALS TO BE BLACK VINYL-COATED STEEL.
3. ALL HARDWARE TO BE GALVANIZED STEEL.
4. GATE FRAME, HINGES, AND HARDWARE ARE TO MEET REQUIREMENTS OF FENCE MANUFACTURER.

09 42IN CHAINLINK FENCE — SECTION
SCALE: 1/4" = 1'-0"

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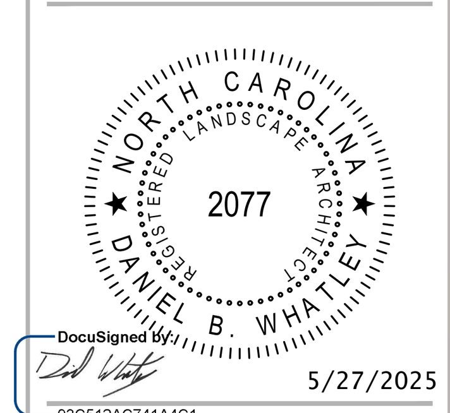

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5/27/2025

INITIAL PLAN DATE: 05/23/2025
REVISIONS:
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WR JOB NUMBER	23-1177
DRN: WR DGN: WR	CKD: WR

SITE DETAILS

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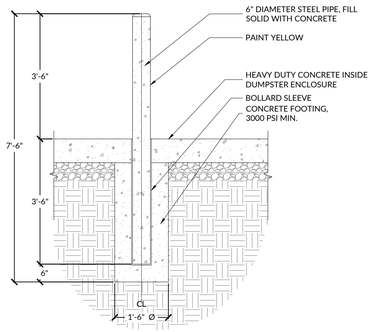
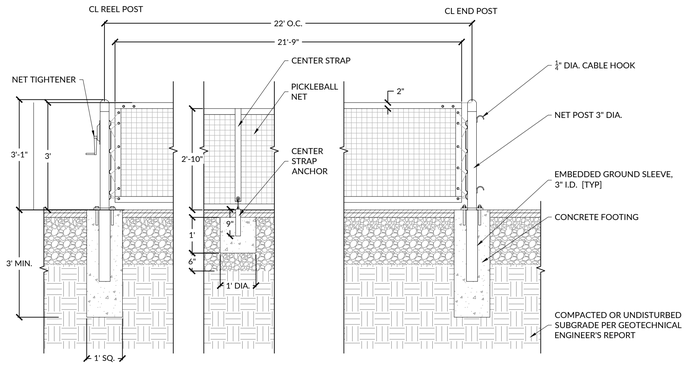


NOTE:

1. REFER TO PLANS FOR EXACT LOCATION & NUMBER OF BOLLARDS
2. FOR BOLLARD PRODUCT INFORMATION SEE FINISHES AND FURNISHING SCHEDULE.

01 CONCRETE FILLED BOLLARD — SECTION

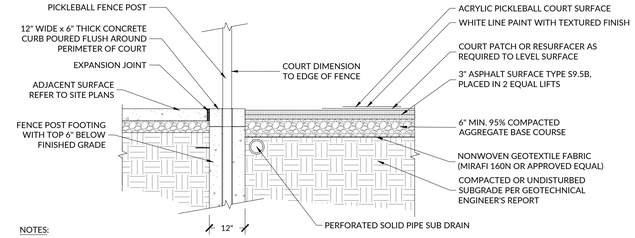
SCALE: 1/2" = 1'-0"



NOTES:
1. PICKLEBALL NET POSTS AND STRAP ANCHORS ARE TO BE INSTALLED PRIOR TO PAVING THE COURT TO MAINTAIN THE INTEGRITY OF THE NEW PAVEMENT. POSTS AND ANCHORS ARE TO BE INSTALLED PER MANUFACTURER'S REQUIREMENTS.

02 PICKLEBALL COURT NET & POST FOOTING — SECTION

SCALE: 1/2" = 1'-0"



NOTES:

1. PRIOR TO APPLICATION OF COURT SURFACE SYSTEM, ASPHALT SURFACE SHALL BE LEVELED SO THAT NO DEPRESSIONS GREATER THAN 1/16" ARE PRESENT. LEVELING AND PATCHING ARE TO MEET USTA & MANUFACTURER'S REQUIREMENTS (MAX 1/8" PER 10 FEET).
2. ACRYLIC COURT SURFACE SHALL BE APPLIED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, AND MEET REQUIREMENTS FOR COVERAGE, SMOOTHNESS AND PLAYABILITY. MATERIALS SHALL BE PROVIDED BY ONE MANUFACTURER TO ENSURE COMPATIBILITY OF PRODUCTS.
3. COURT SURFACE COLOR IS TO BE PANTONE BLUE (2965) IN-BOUNDS AND PANTONE GREEN (357U) FOR OUTSIDE. COLOR COATS SHALL CONTAIN SAND PER USTA REQUIREMENTS.
4. MASKING TAPE FOR PLAYING LINES SHALL BE PRIMED PRIOR TO PAINTING THE LINES TO PREVENT PAINT FROM BLEEDING UNDER THE TAPE. PLAYING LINES SHALL BE HAND BRUSHED OR ROLLED, NOT SPRAYED, PER USTA REQUIREMENTS.
5. THE USE OF RAP OR OTHER MATERIALS THAT COULD IMPACT PAVEMENT LONGEVITY OR STAIN THE COURT SURFACE ACRYLICS SHALL BE PROHIBITED. ASPHALT SHALL BE VIRGIN LIMESTONE OR GRANITE TYPE AGGREGATE ONLY.
6. WHERE PICKLEBALL COURT ABUTS RETAINING WALL, TOP OF WALL IS TO MEET FLUSH WITH COURT SURFACE WITH FENCE POSTS EMBEDDED INTO IT.

03 PICKLEBALL COURT SURFACE — SECTION

SCALE: 1/2" = 1'-0"

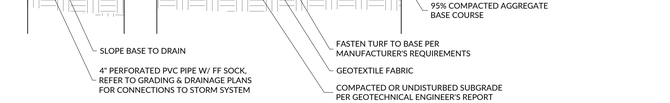
NOTES;
1. REFERENCE CONSTRUCTION SCHEDULE FOR ALL COLORS AND FINISHES
2. CONTRACTOR TO PROVIDE PRODUCT DATA AND SAMPLES FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
3. SYNTHETIC TURF INSTALLATION IS TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER SPECIFICATIONS AND BY AN AUTHORIZED INSTALLER.
4. THE SYNTHETIC GRASS MUST BE INSTALLED AND SEAMED WITH ADJACENT PIECES RUNNING IN THE SAME DIRECTION.
5. ALL SEAMS ARE TO UTILIZE SUITABLE SEAMING GLUE AND SEAMING CLOTH. CONTRACTOR IS TO PROVIDE PRODUCT DATA FOR REVIEW AND APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO USE.

04 BOCCE TURF — SECTION

SCALE: 1 1/2" = 1'-0"

05 METAL EDGING — SECTION

SCALE: 1 1/2" = 1'-0"

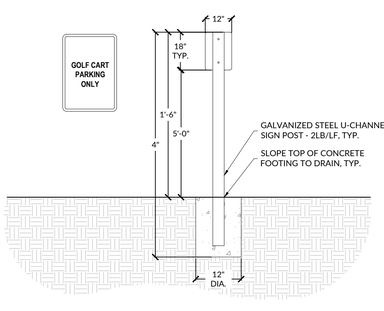


NOTES:

1. SYNTHETIC TURF BASIS OF DESIGN PRODUCT: SYNAUGUSTINE X47 SYNTHETIC TURF BY SYNLAWN (www.synlawn.com), OR APPROVED EQUAL.
2. SYNTHETIC TURF IS TO BE INSTALLED AND SEAMED PER MANUFACTURER'S REQUIREMENTS, WITH ADJACENT PIECES RUNNING IN THE SAME DIRECTION.
3. SEAMS SHALL BE GLUED WITH SUITABLE SEAMING GLUE AND SEAMING CLOTH; ADHESIVE TAPE SHALL NOT BE USED.
4. INFILL MATERIAL IS TO MEET SPECIFICATIONS AND REQUIREMENTS OF MANUFACTURER, AND BE INSTALLED TO MEET MANUFACTURER'S REQUIREMENTS.
5. TURF IS TO BE INSTALLED TO SIT BETWEEN 1/4" AND 1/2" BELOW ADJACENT PAVEMENT GRADES.

06 SYNTHETIC TURF — SECTION

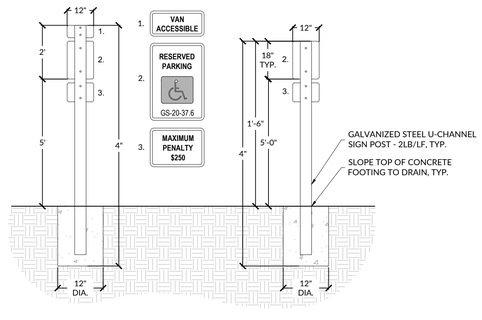
SCALE: 1" = 1'-0"



NOTE:
1. THE RESERVED PARKING SIGN IS TO BE 5'-0" IF THE PEDESTRIAN PATH DOES NOT PASS UNDER OR AROUND SIGN.
2. THE RESERVED PARKING SIGN IS TO BE 7'-0" IF THE PEDESTRIAN PATH GOES BY, UNDER, OR AROUND THE SIGN.

07 GOLF CART PARKING — SECTION

SCALE: 3/8" = 1'-0"



NOTE:
1. THE RESERVED PARKING SIGN IS TO BE 5'-0" IF THE PEDESTRIAN PATH DOES NOT PASS UNDER OR AROUND SIGN.
2. THE RESERVED PARKING SIGN IS TO BE 7'-0" IF THE PEDESTRIAN PATH GOES BY, UNDER, OR AROUND THE SIGN.

08 ADA PARKING SIGNAGE — SECTION

SCALE: 3/8" = 1'-0"

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 2077 DANIEL B. WHITLEY

DocuSigned by:
5/27/2025
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INITIAL PLAN DATE: 05/23/2025
REVISIONS:
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WR JOB NUMBER 23-1177
DRN: WR DGN: WR CKD: WR

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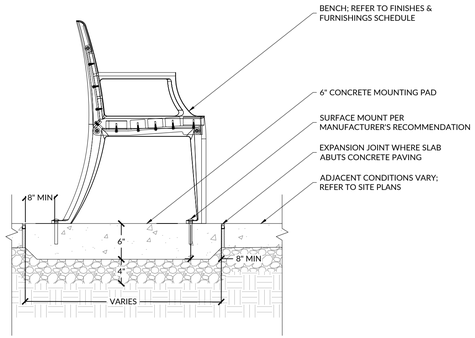
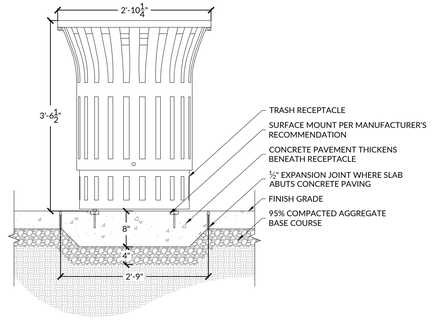


NOTES:

1. ANCHORS FOR SURFACE MOUNTING BENCHES ARE TO BE STAINLESS STEEL & MEET REQUIREMENTS OF MANUFACTURER.
2. SEE APPROPRIATE DETAILS FOR ADJACENT PAVING CONDITIONS
3. SEE FINISHES & FURNISHINGS SCHEDULE \\FOR BENCH PRODUCT INFORMATION.

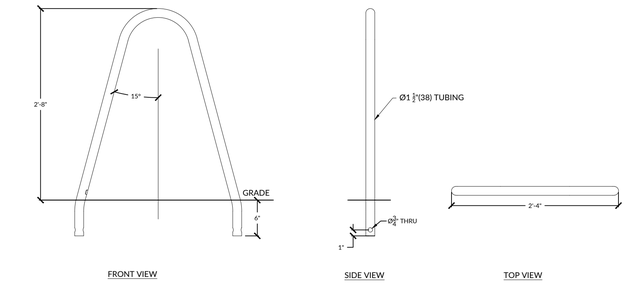
01 BENCH MOUNTED ON CONCRETE — SECTION
SCALE: 1" = 1'-0"



NOTES:

1. FOR WASTE RECEPTACLE PRODUCT INFORMATION SEE FINISHES & FURNISHINGS SCHEDULE.
2. ANCHORS FOR SURFACE MOUNTING BENCHES ARE TO BE STAINLESS STEEL & MEET REQUIREMENTS OF MANUFACTURER.

02 WASTE RECEPTACLE — SECTION
SCALE: 3/4" = 1'-0"



NOTES:
1. FRAME IS TO BE STAINLESS STEEL TUBING WITH BLACK POWDER COAT FINISH.
2. BIKE RACK IS TO BE EMBEDDED MINIMUM 6 INCHES INTO CONCRETE PER MANUFACTURER'S REQUIREMENTS.
3. PRODUCT: BALA BIKE RACK BY LANDSCAPE FORMS (www.landscapeforms.com) OR APPROVED EQUAL.
4. BIKE RACKS ARE TO BE SPACED A MINIMUM OF 3 FEET FROM EDGE OF PAVING AND ADJACENT BIKE RACKS, UNLESS NOTED OTHERWISE.

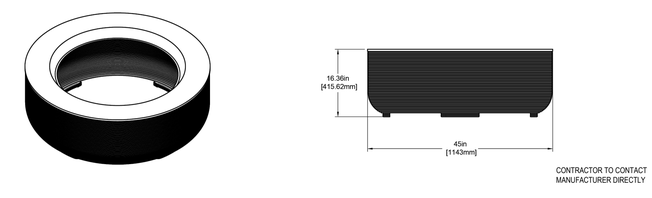
03 BIKE RACK — SECTION
SCALE: 1" = 1'-0"

CONTRACTOR TO CONTACT MANUFACTURER DIRECTLY

04 SPORTS PLAZA — PRODUCT
SCALE: NTS

CONTRACTOR TO CONTACT MANUFACTURER DIRECTLY

05 CABANA — PRODUCT
SCALE: NTS



CONTRACTOR TO CONTACT MANUFACTURER DIRECTLY

06 FIRE PIT — PRODUCT
SCALE: NTS

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DocuSigned by: 5/27/2025
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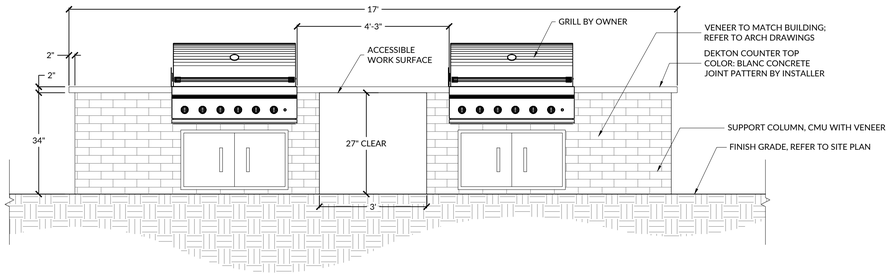
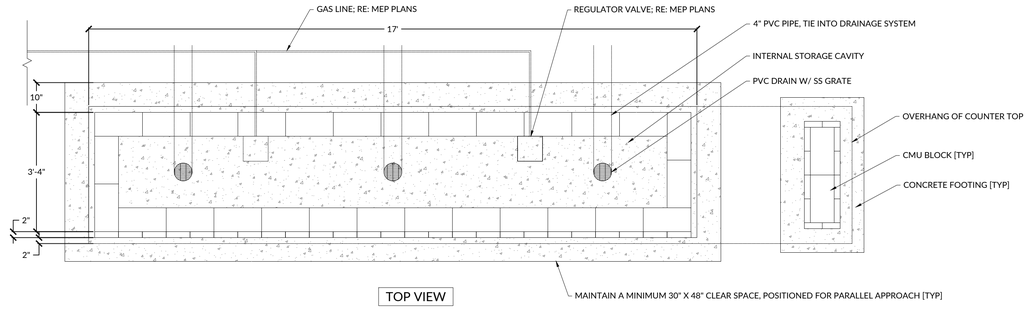


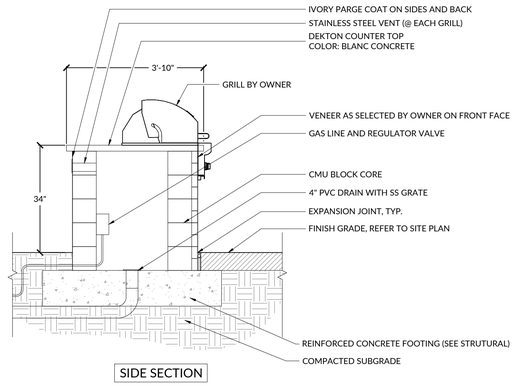
FRONT ELEVATION

01 GRILL STATION ELEVATION — ELEVATION
SCALE: 1/2" = 1'-0"



TOP VIEW

02 GRILL STATION PLAN — PLAN
SCALE: 1/2" = 1'-0"



SIDE SECTION

03 GRILL STATION SECTION — SECTION
SCALE: 1/2" = 1'-0"

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5/27/2025

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WR JOB NUMBER 23-1177
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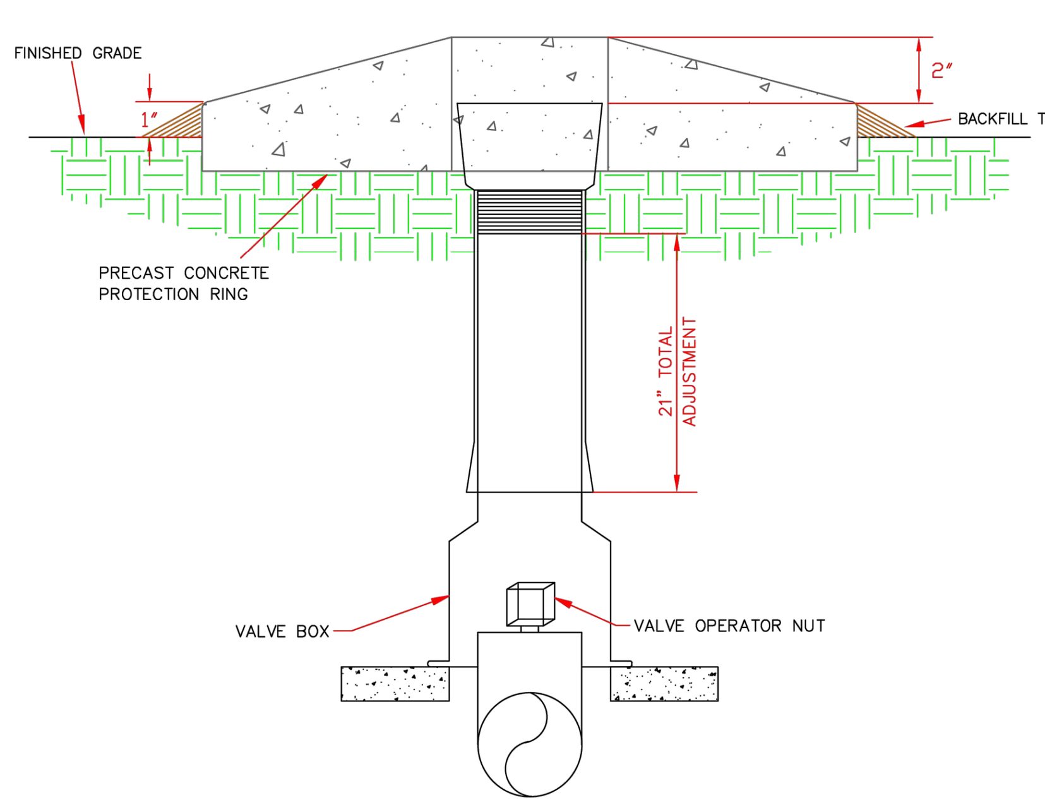
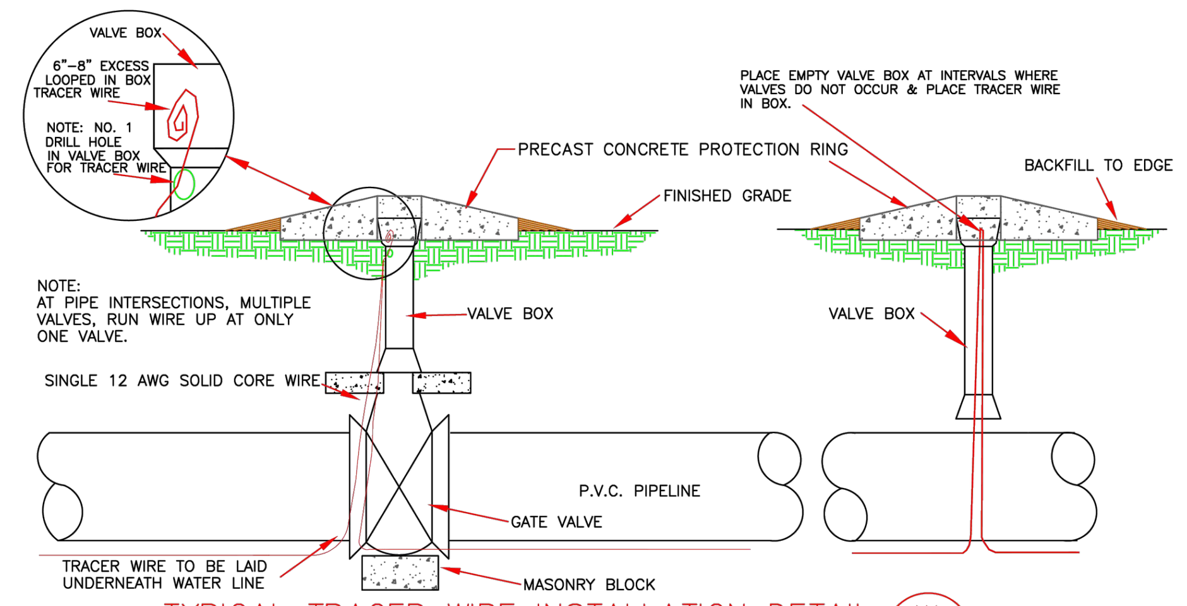
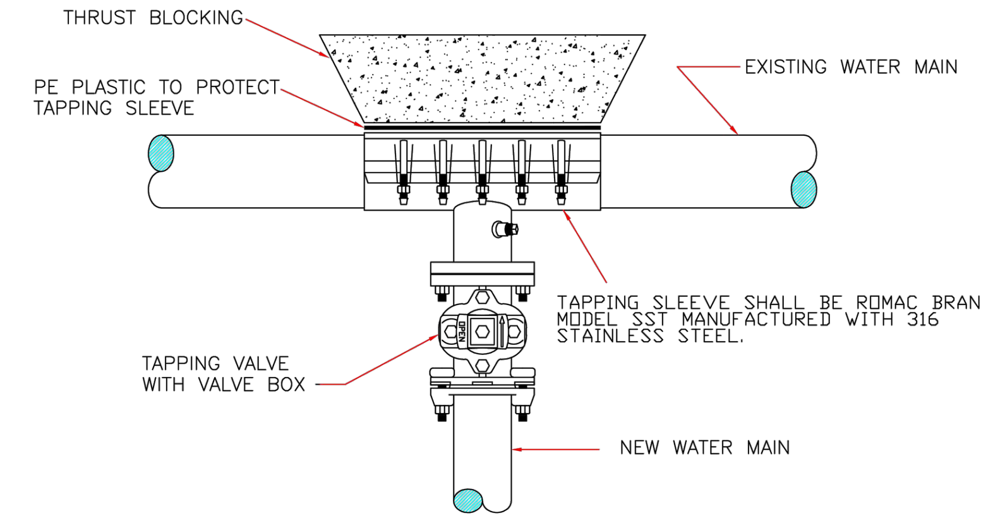


TYPICAL VALVE BOX DETAIL (W 2)
NO SCALE

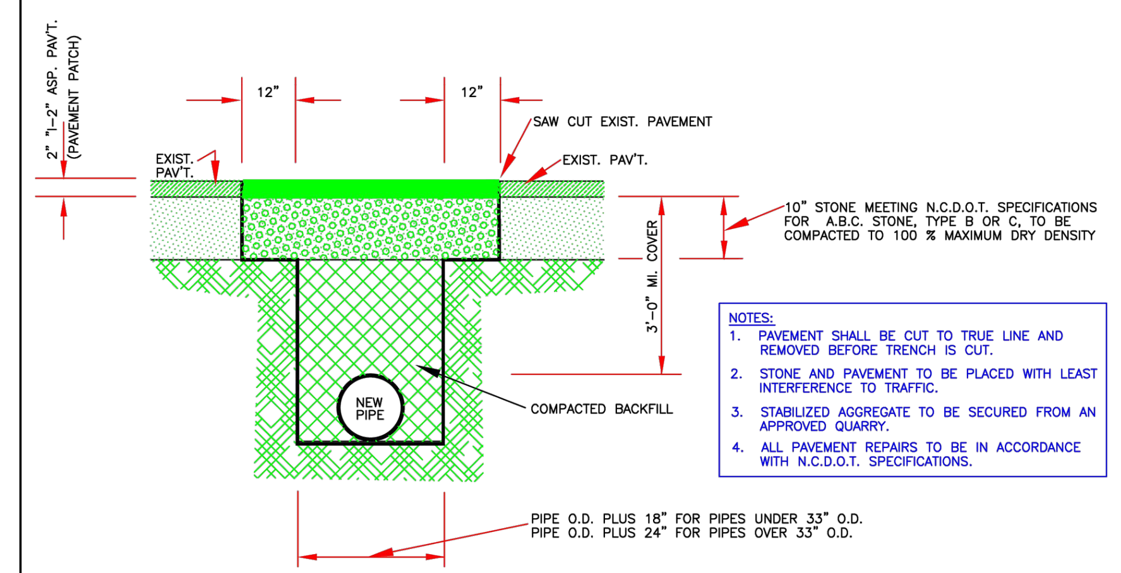


TYPICAL TRACER WIRE INSTALLATION DETAIL (W 3)
NO SCALE

NOTES:
1. DRILL HOLE IN VALVE BOX TO INSERT TRACER WIRE,BRING UP TO INSIDE AND ROLL UP AT LEAST 6"–8" EXCESS
2. PLACE TRACER WIRE IN VALVE BOX AT 1,000' INTERVALS OR AS NOTED ON THE PLANS, TYPICAL.
3. DO NOT SPLICE WIRE WHEN BEGINNING A NEW SPOOL. INSTEAD INSTALL A VALVE BOX AND ATTACH EACH WIRE WITH A BRASS SCREW TO THE VALVE BOX.



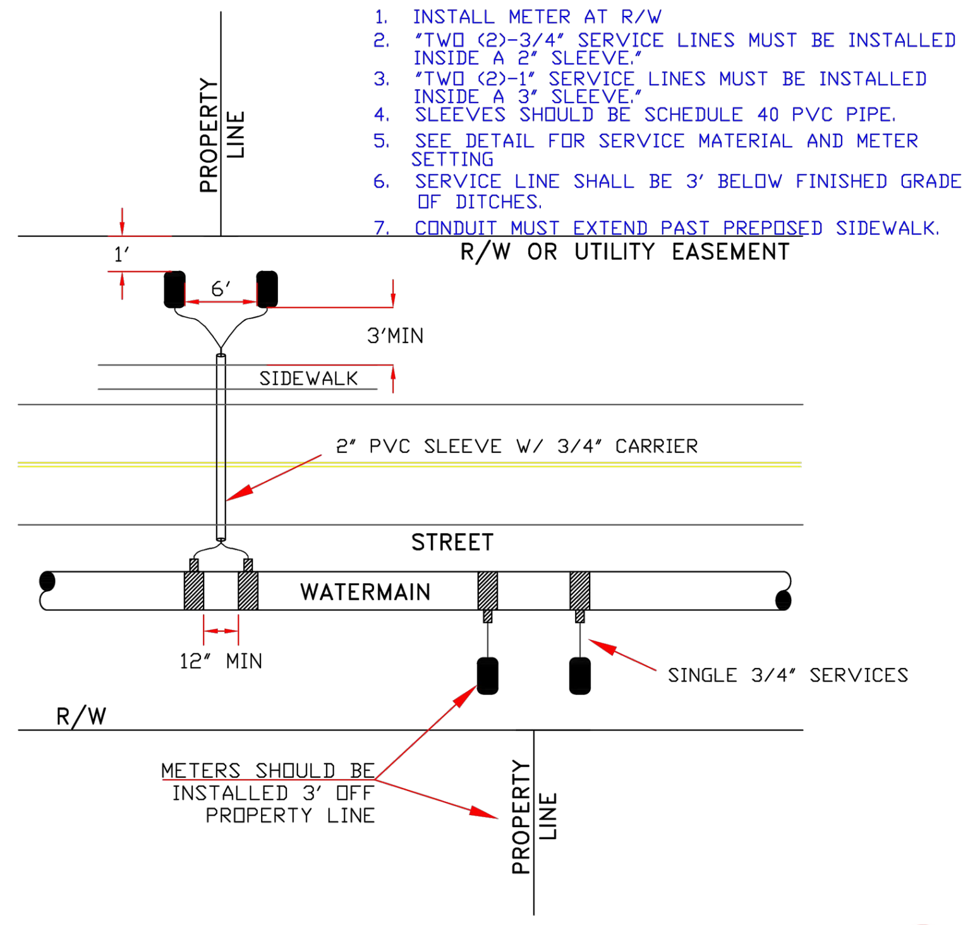
TYPICAL TAPPING SLEEVE AND VALVE ASSEMBLY DETAIL (W 5)
NO SCALE



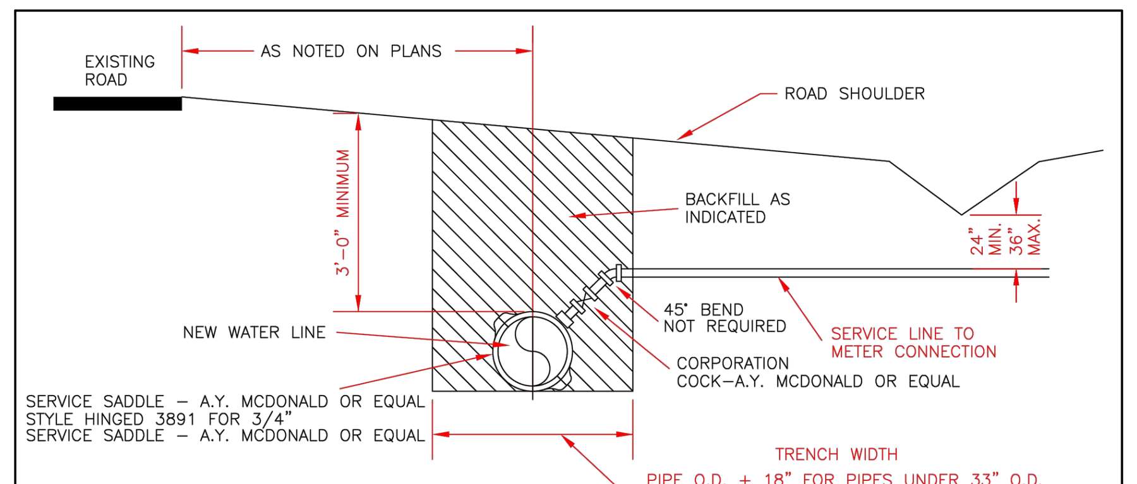
NOTES:
1. PAVEMENT SHALL BE CUT TO TRUE LINE AND REMOVED BEFORE TRENCH IS CUT.
2. STONE AND PAVEMENT TO BE PLACED WITH LEAST INTERFERENCE TO TRAFFIC.
3. STABILIZED AGGREGATE TO BE SECURED FROM AN APPROVED QUARRY.
4. ALL PAVEMENT REPAIRS TO BE IN ACCORDANCE WITH N.C.D.O.T. SPECIFICATIONS.

TYPICAL TRENCH IN BITUMINOUS SURFACE AREAS DETAIL (W 10)
NO SCALE

NOTES:
1. INSTALL METER AT R/W
2. "TWO (2)-3/4" SERVICE LINES MUST BE INSTALLED INSIDE A 2" SLEEVE."
3. "TWO (2)-1" SERVICE LINES MUST BE INSTALLED INSIDE A 3" SLEEVE."
4. SLEEVES SHOULD BE SCHEDULE 40 PVC PIPE.
5. SEE DETAIL FOR SERVICE MATERIAL AND METER SETTING
6. SERVICE LINE SHALL BE 3' BELOW FINISHED GRADE OF DITCHES.
7. CONDUIT MUST EXTEND PAST PREPOSED SIDEWALK.

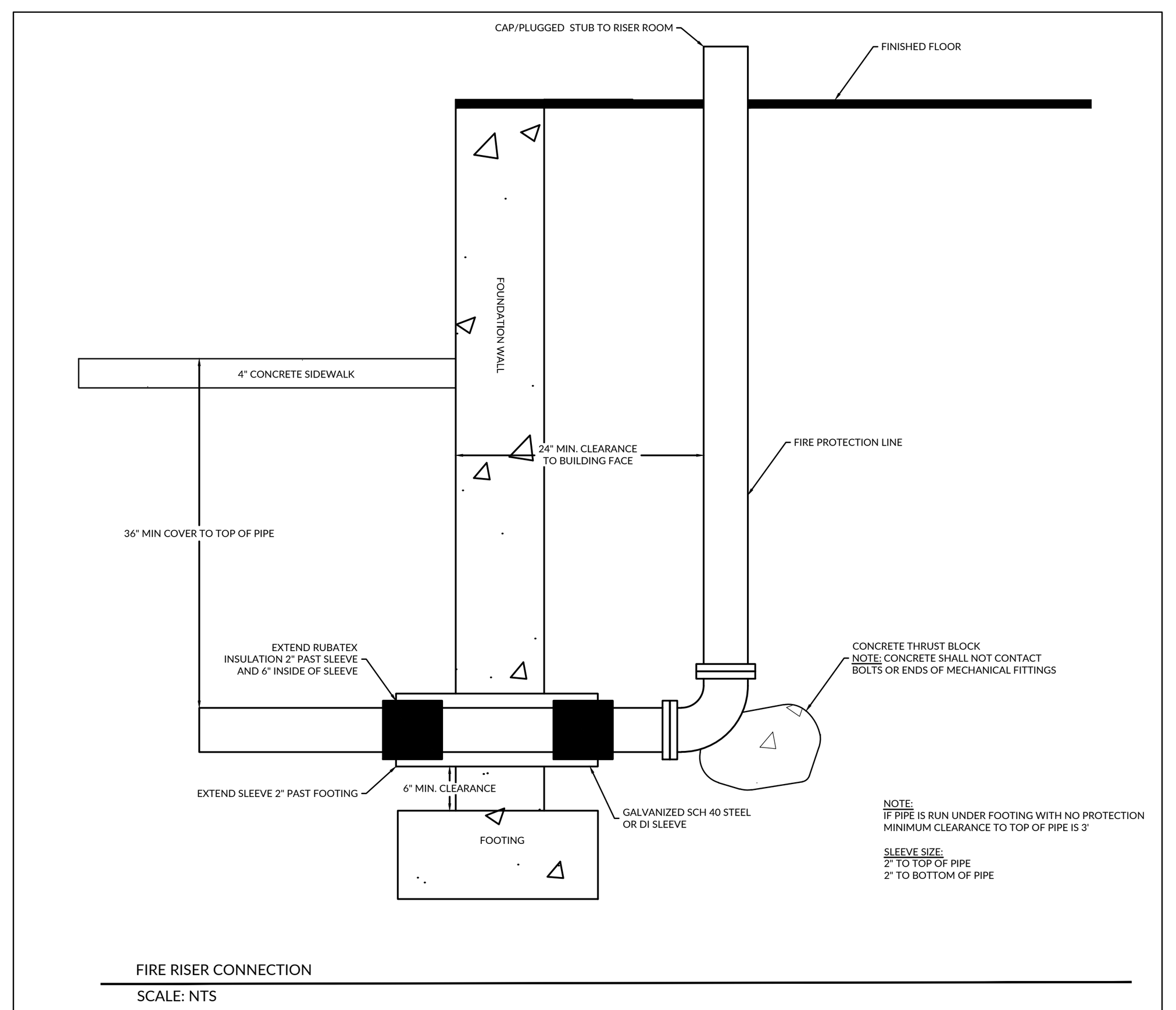


TYPICAL DOMESTIC WATER SERVICE INSTALLATION DETAIL (W 12)
NO SCALE

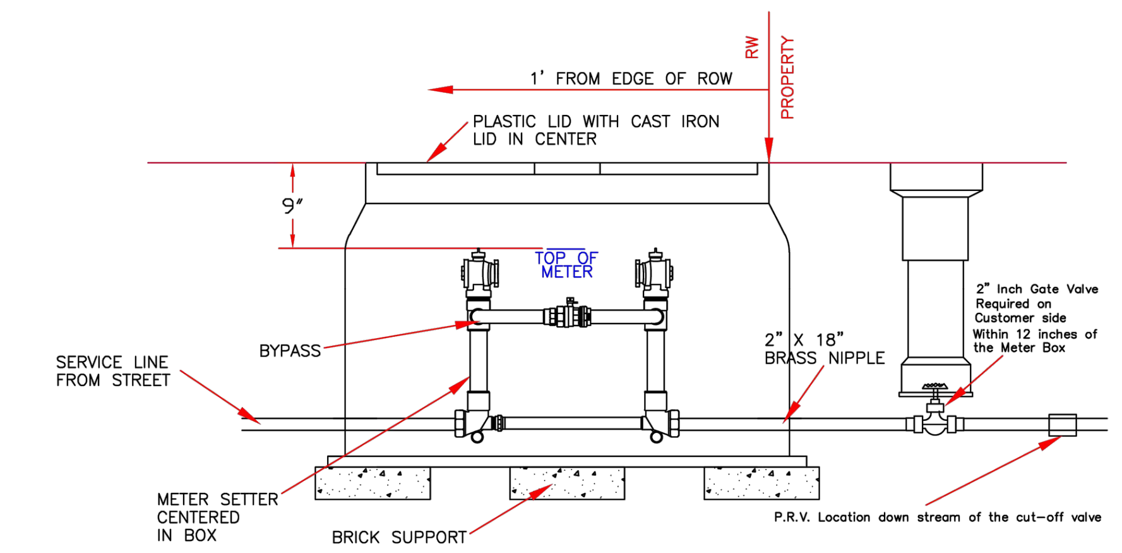


NOTE:
1. "SERVICE CONNECTION" IN PROPOSAL TO INCLUDE SERVICE SADDLE, 45° BEND, CORPORATION COCK AND ALL LABOR INVOLVED IN MAKING A COMPLETE SERVICE CONNECTION.
2. SERVICE PIPING TO BE 3/4" SDR–9 PE TUBING
3. ALL BRASS FITTINGS SHALL BE COMPRESSION TYPE

TYPICAL WATER SERVICE CONNECTION USING TAPPING SADDLE DETAIL (W 13)
NO SCALE



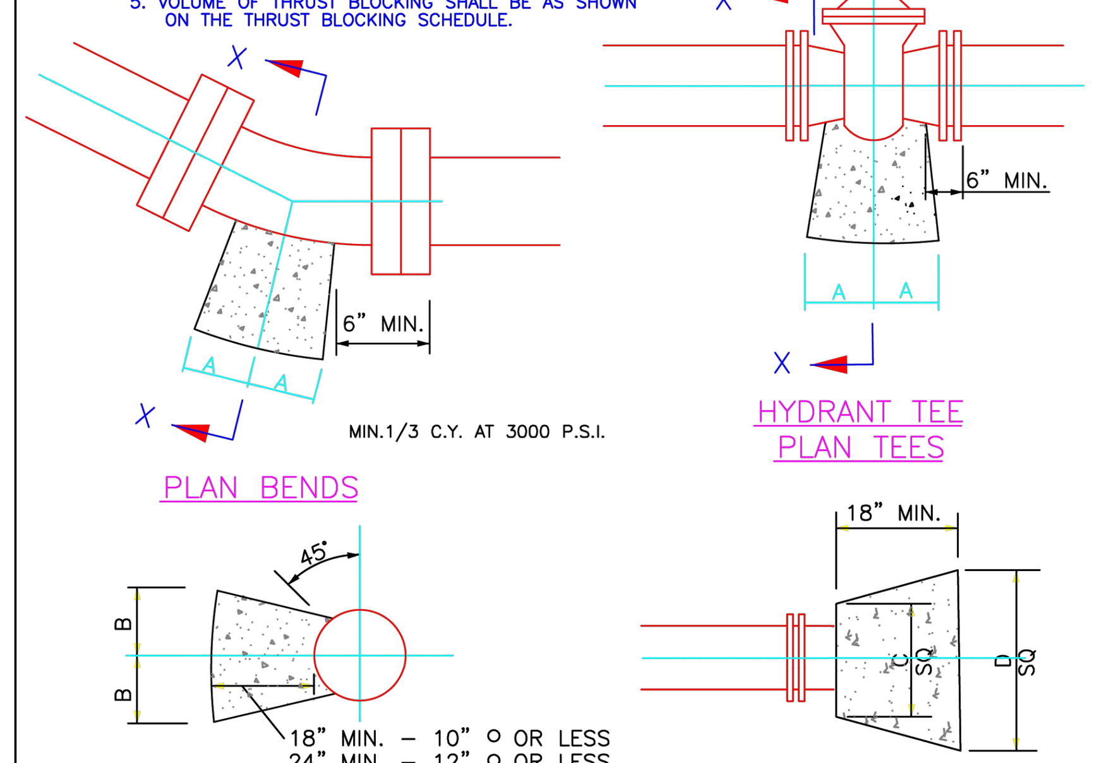
FIRE RISER CONNECTION
SCALE: NTS



1. METER AND PRIVATE SERVICE LINE NOT IN CONTRACT UNLESS SPECIFIED
2. METER SETTER SIZE AS NOTED ON PLANS.
3. ALL BRASS FITTINGS SHALL BE COMPRESSION TYPE.
4. 17 1/4" SPREAD (FLANGE TO FLANGE).

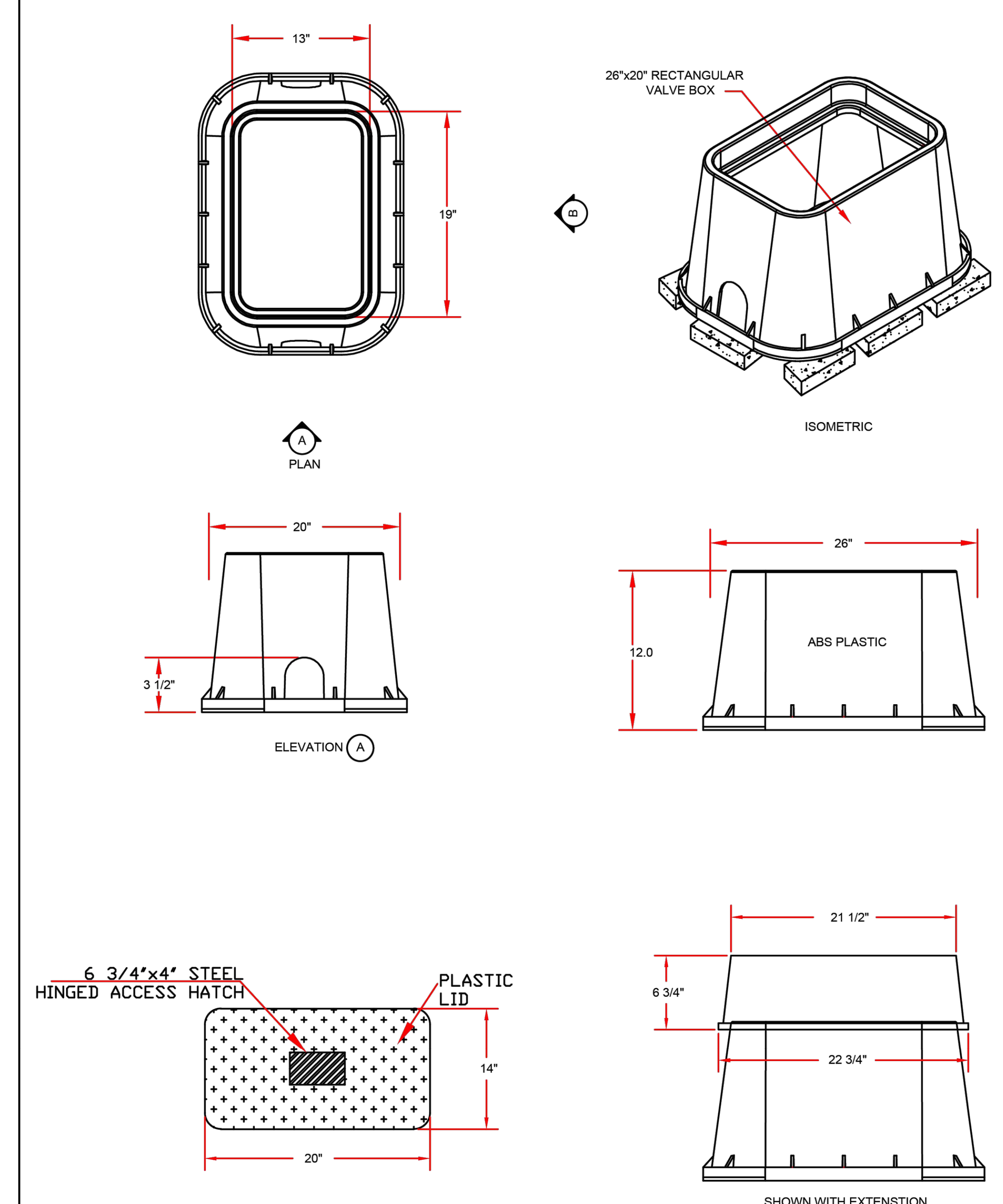
TYPICAL 2" METER SETTER INSTALLATION DETAIL (W 18)
NO SCALE

NOTES:
1. CONCRETE SHALL BE 3,000 PSI MIN.
2. CONCRETE FOR THRUST BLOCKING SHALL BE KEPT FAIRLY DRY, THUS MAKING THE CONCRETE WEDGE SHAPE MORE EASILY FORMED WITH THE WIDEST PART (BLOCKING AREA) AGAINST UNDISTURBED SOIL.
3. NO CONCRETE SHALL COVER ANY BOLTS OR GLANDS.
4. ALL PIPING AND ACCESSORIES TO BE WRAPPED WITH 10 MIL. POLYETHYLENE PRIOR TO POURING BLOCKING.
5. VOLUME OF THRUST BLOCKING SHALL BE AS SHOWN ON THE THRUST BLOCKING SCHEDULE.

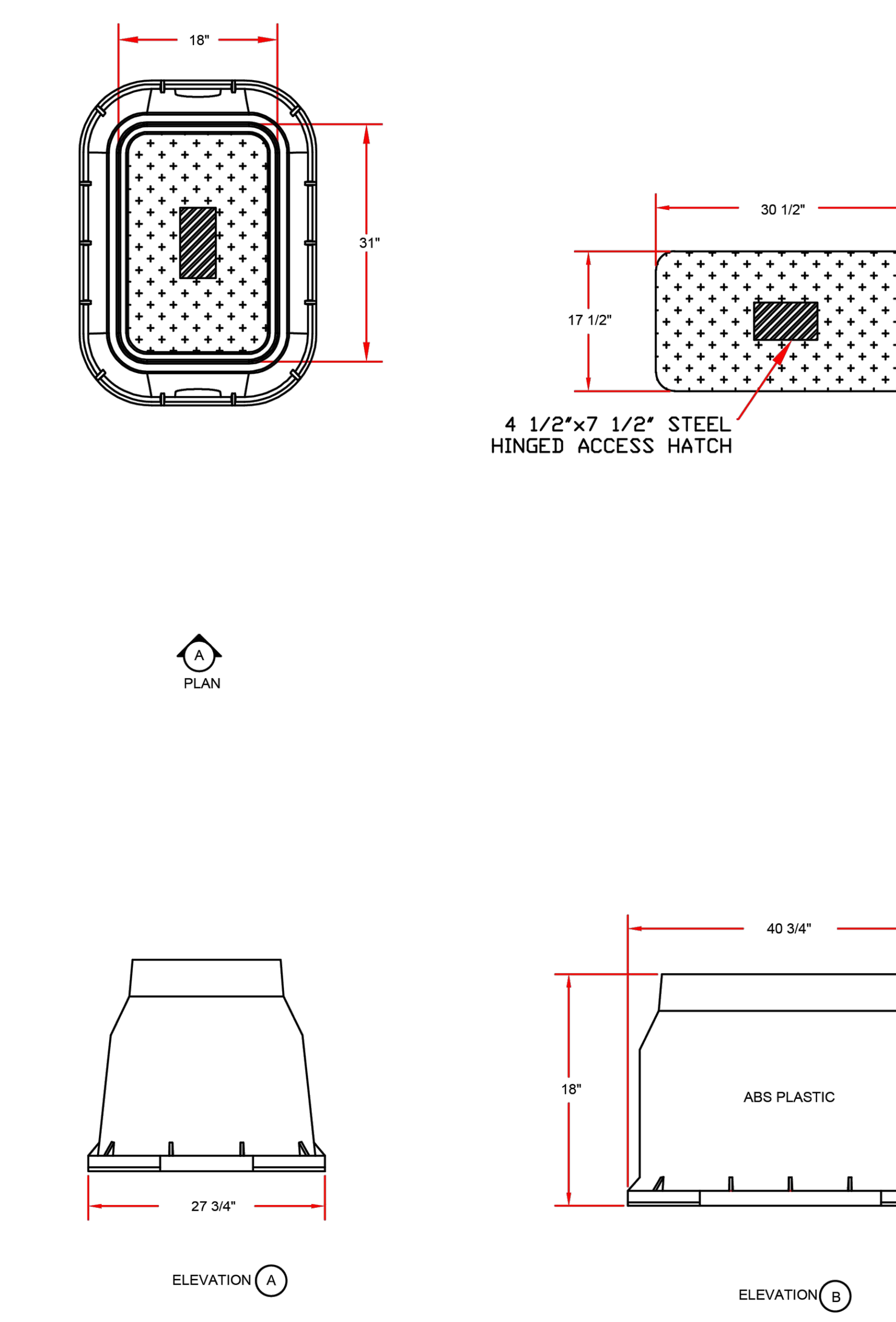


PIPE SIZE	90° BEND		45° BEND		221/2° BEND		11/4° BEND		TEE		PLUG	
	A	B	A	B	A	B	A	B	A	B	C	D
4"	8"	12"	8"	8"	6"	6"	6"	6"	8"	9"	10"	16"
6"	10"	12"	8"	10"	8"	8"	8"	8"	10"	10"	12"	18"
8"	15"	13"	10"	10"	8"	8"	8"	8"	10"	12"	12"	24"
10"	16"	14"	10"	12"	6"	10"	6"	10"	11"	14"	14"	25"
12"	20"	16"	12"	14"	8"	12"	8"	12"	14"	16"	16"	30"
14"	22"	18"	14"	16"	10"	14"	10"	14"	16"	18"	18"	34"
16"	26"	20"	16"	18"	12"	16"	12"	16"	18"	20"	20"	36"

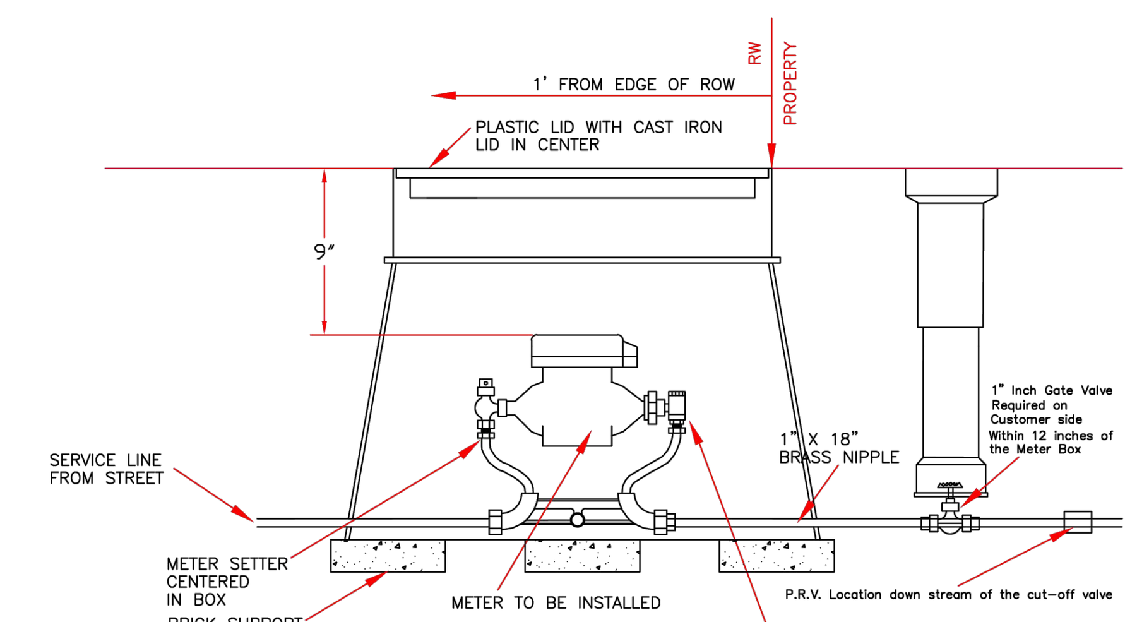
TYPICAL THRUST BLOCK DETAIL (W 7)
NO SCALE



TYPICAL METER BOX DETAIL FOR 1" SERVICE (W 17)
NO SCALE



TYPICAL METER BOX DETAIL FOR 2" SERVICE (W 19)
NO SCALE



1. METER AND PRIVATE SERVICE LINE NOT IN CONTRACT UNLESS SPECIFIED
2. METER SETTER SIZE AS NOTED ON PLANS.
3. ALL BRASS FITTINGS SHALL BE COMPRESSION TYPE.

TYPICAL 1" METER SETTER INSTALLATION DETAIL (W 16)
NO SCALE

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CONSTRUCTION PLANS
TRI POINTE HOMES SERENITY AMENITY
STREAMSIDE TERRACE | HARNETT COUNTY, NORTH CAROLINA

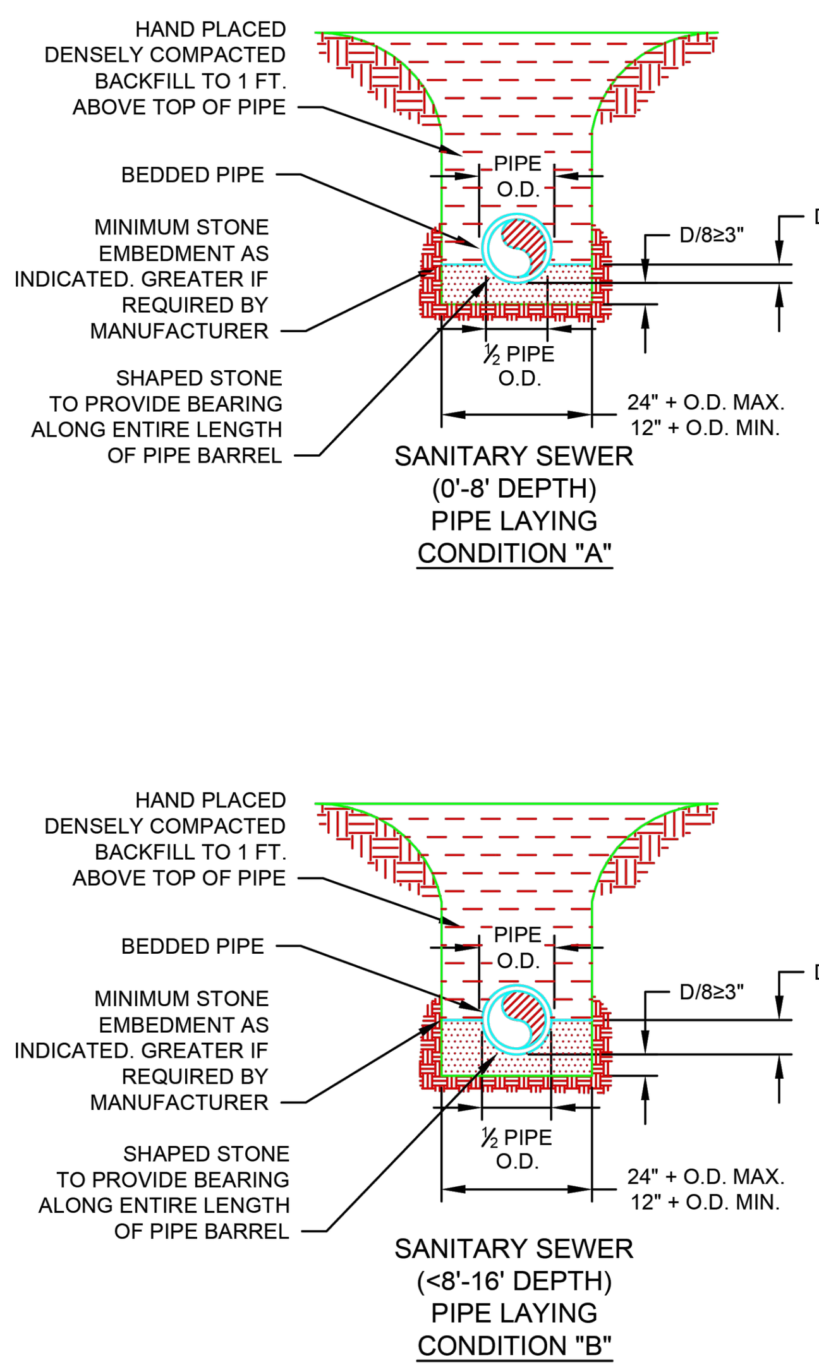
NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 046230 DAVID L. STARKEL
Signed by: David Starkel 5/27/2025

INITIAL PLAN DATE: 05/23/2025
REVISIONS:

WR JOB NUMBER 23-1177
DRN: WR DGN: WR CKD: WR

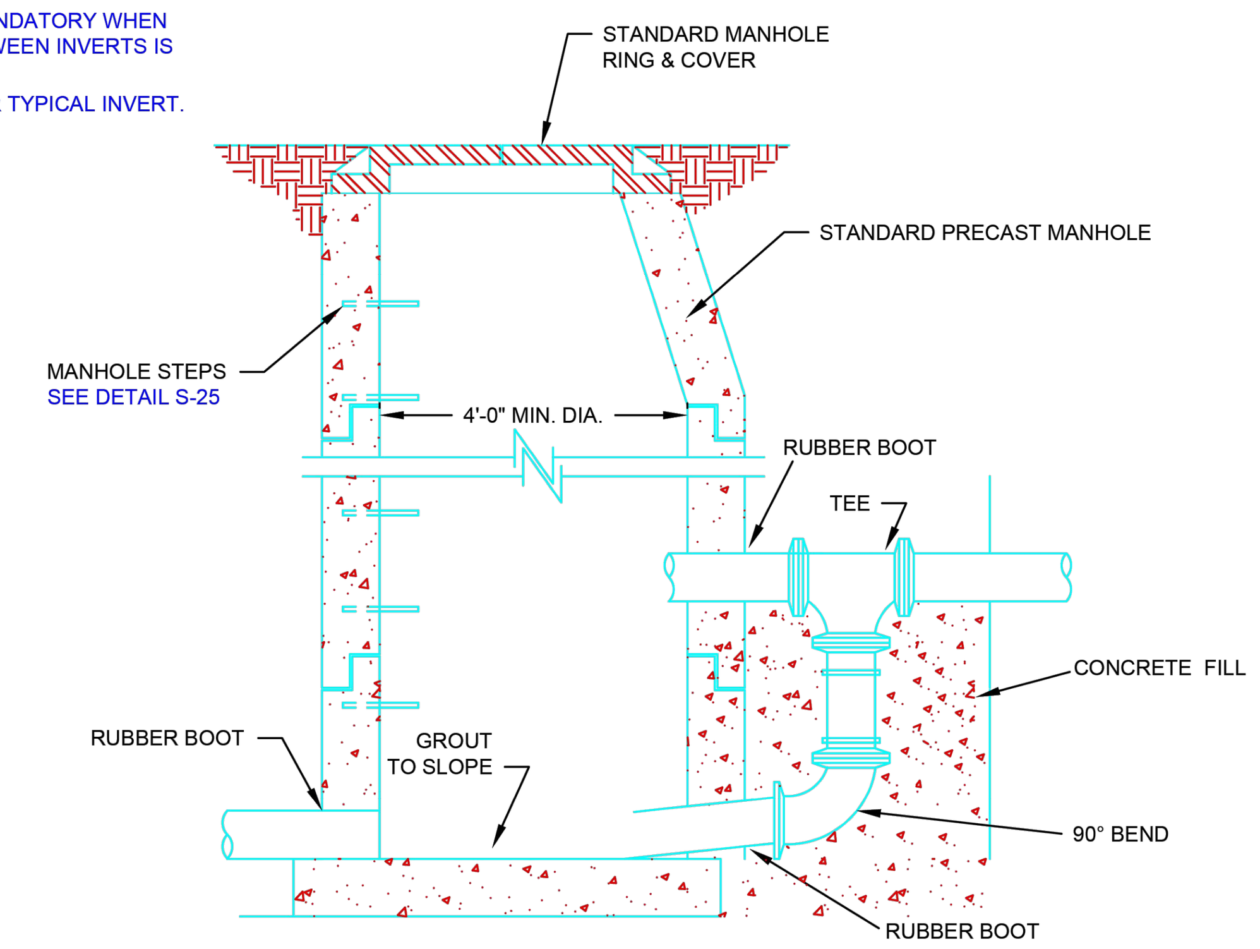
WATER DETAILS

C5.07



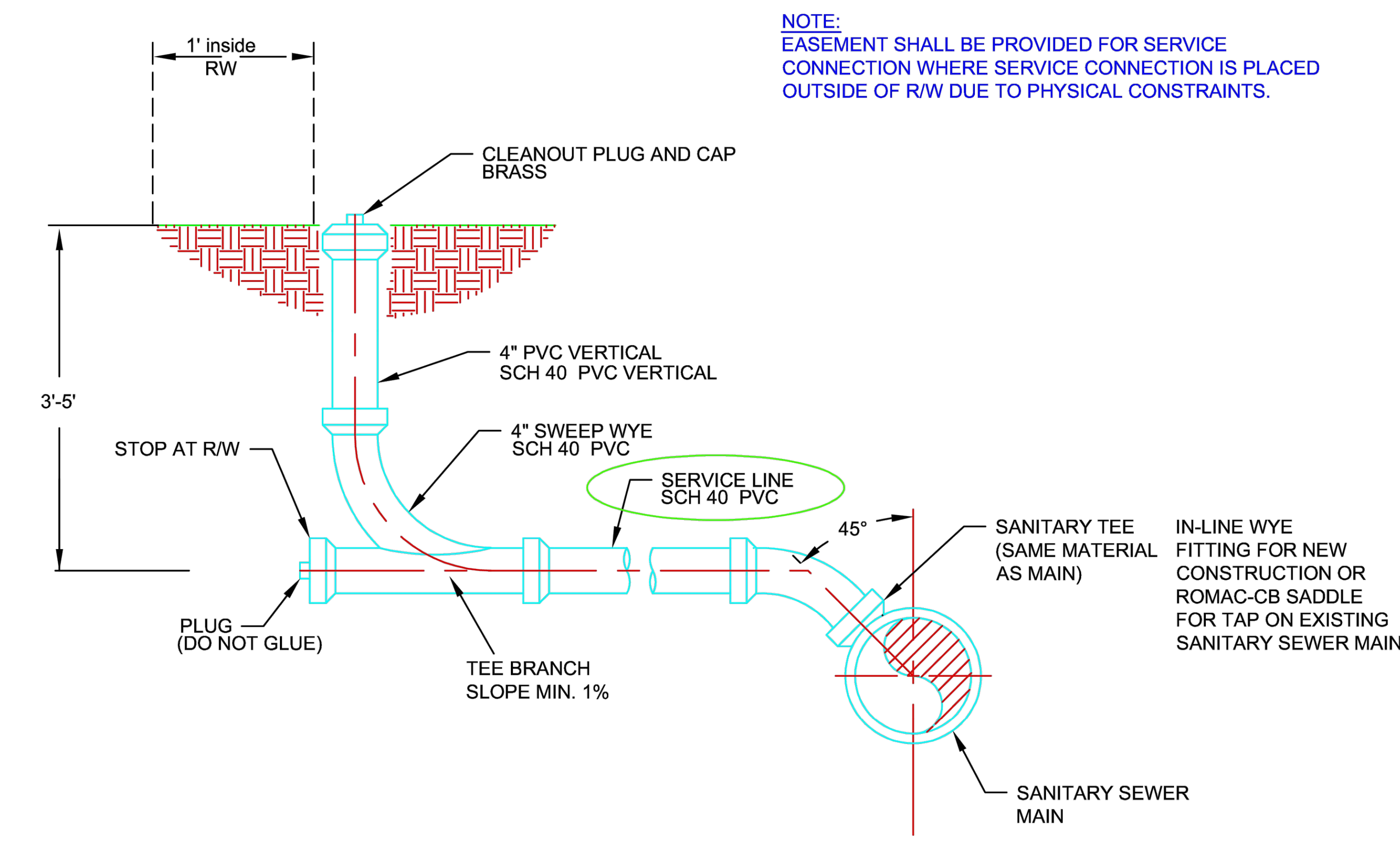
TYPICAL PIPE LAYING CONDITION DETAIL S 16
NO SCALE

NOTE:
1. PIPE SIZE FOR DROP TO EQUAL INFLOW SEWER PIPE SIZE.
2. FITTINGS FOR DROPS SHALL BE C-900 OR SCHEDULE 40 PVC.
3. SAW-CUT OR DRILL ALL HOLES FOR PIPE AND BOLTS.
4. DROP-MANHOLE MANDATORY WHEN DIFFERENTIAL BETWEEN INVERTS IS GREATER THAN 24".
5. SEE DETAIL S-28 FOR TYPICAL INVERT.

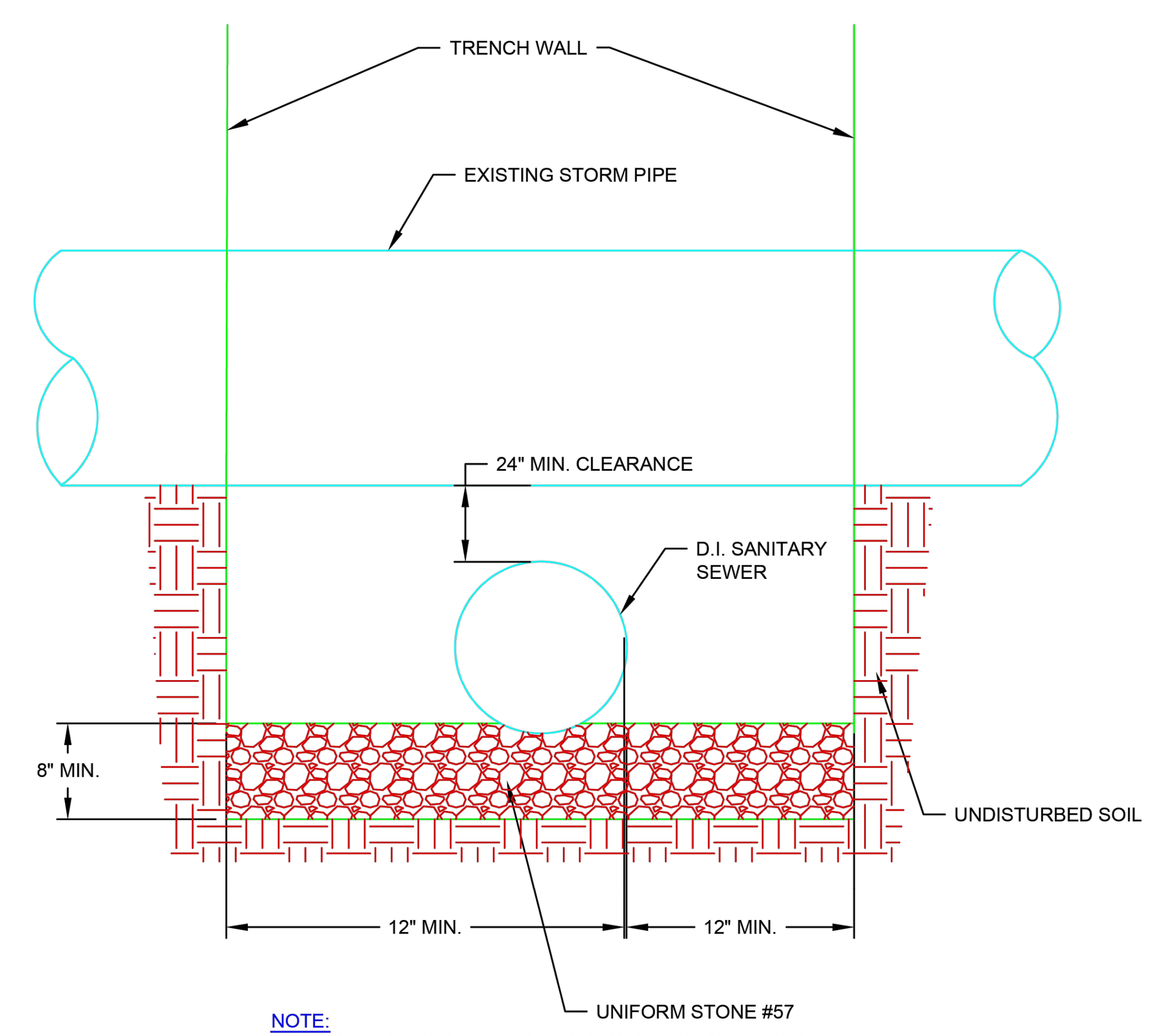


TYPICAL OUTSIDE DROP MANHOLE DETAIL S 26
NO SCALE

NOTE:
EASEMENT SHALL BE PROVIDED FOR SERVICE CONNECTION WHERE SERVICE CONNECTION IS PLACED OUTSIDE OF R/W DUE TO PHYSICAL CONSTRAINTS.



TYPICAL SEWER SERVICE CONNECTION DETAIL S 29
NO SCALE



NOTE:
1 EA. JOINT OF DUCTILE IRON PIPE SHALL BE CENTERED UNDER STORM PIPE FOR ALL CROSSINGS.

TYPICAL STORM SEWER CROSSING FOR SANITARY SEWER DETAIL S 31
NO SCALE

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CONSTRUCTION PLANS
TRI POINTE HOMES SERENITY AMENITY
STREAMSIDE TERRACE | HARNETT COUNTY, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 046230 ENGINEER DAVID L. STARKEL

Signed by:
David Starkel
5/27/2025

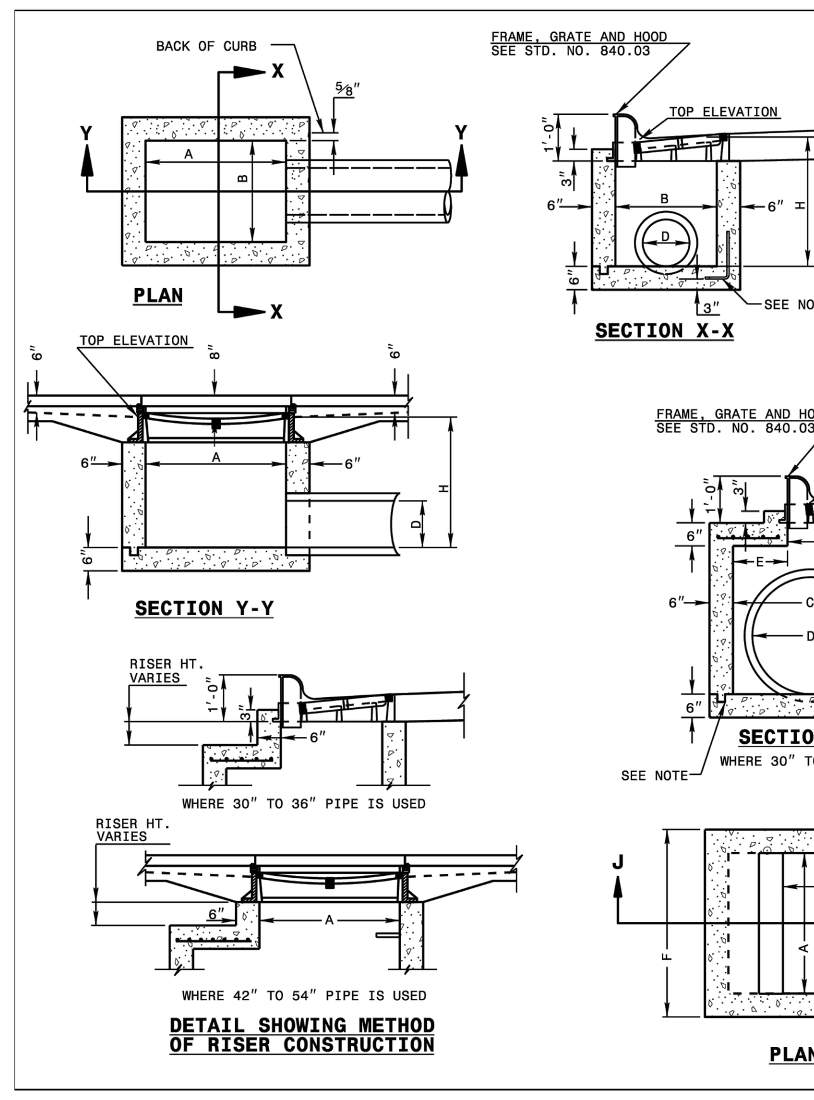
INITIAL PLAN DATE: 05/23/2025
REVISIONS:
-
-
-

WR JOB NUMBER	23-1177
DRN: WR DGN: WR	CKD: WR

SEWER DETAILS

C5.08

ROADWAY STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. — 1-24 — SHEET 1 OF 2 — 840.02



GENERAL NOTES:

USE CLASS "B" CONCRETE THROUGHOUT.

PROVIDE ALL CATCH BASINS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.

OPTIONAL CONSTRUCTION - MONOLITHIC POUR, 2" KEYWAY, OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.

USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.

IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.

USE TYPE "E", "F" AND "G" GRATES UNLESS OTHERWISE INDICATED.

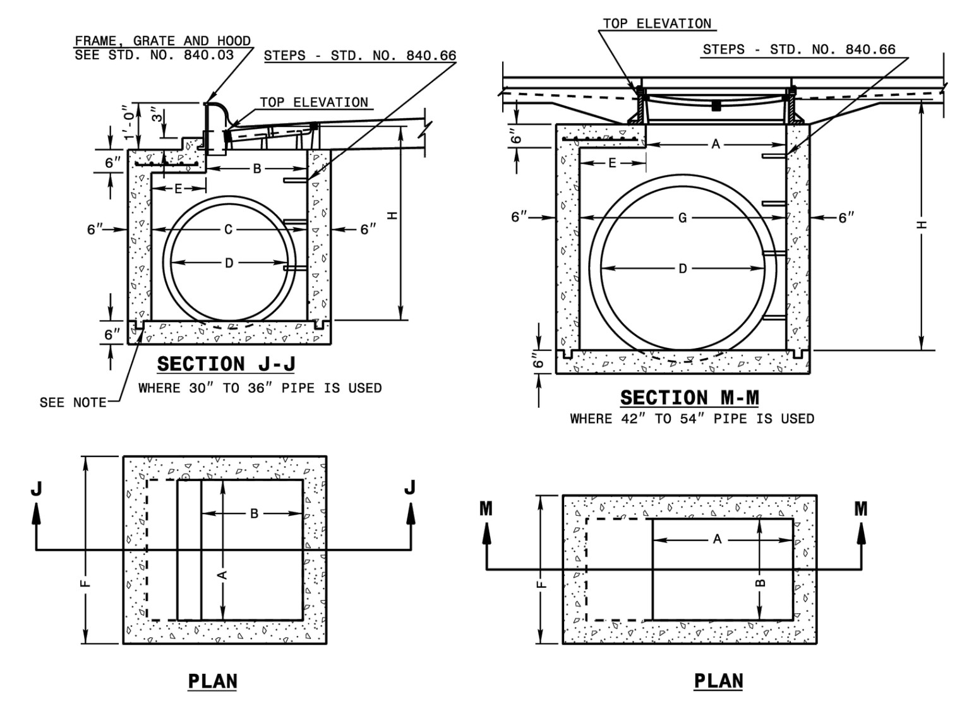
FOR 8'-0" IN HEIGHT OR LESS USE 6" WALLS AND BOTTOM SLAB. OVER 8'-0" TO 16'-0" IN HEIGHT USE 8" WALLS AND BOTTOM SLAB. ADJUST QUANTITIES ACCORDINGLY.

MAXIMUM DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 16'-0". STD. NO. 840.45 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.

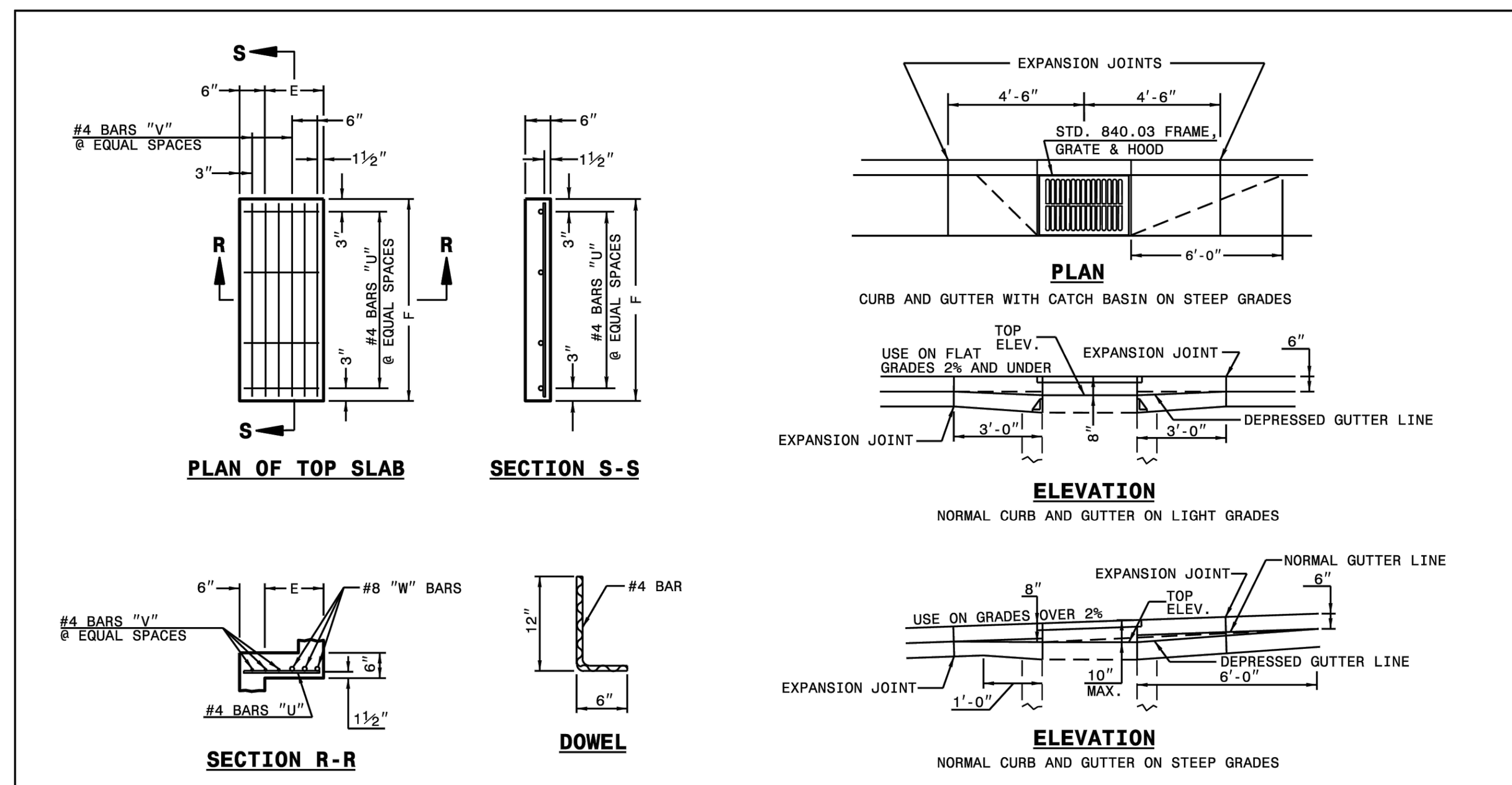
CONSTRUCT WITH PIPE CROWNS MATCHING.

CHAMFER ALL EXPOSED CORNERS 1".

DRAWING NOT TO SCALE.



ROADWAY STANDARD DRAWING FOR CONCRETE CATCH BASIN 12" THRU 54" PIPE
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. — 1-24 — SHEET 2 OF 2 — 840.02



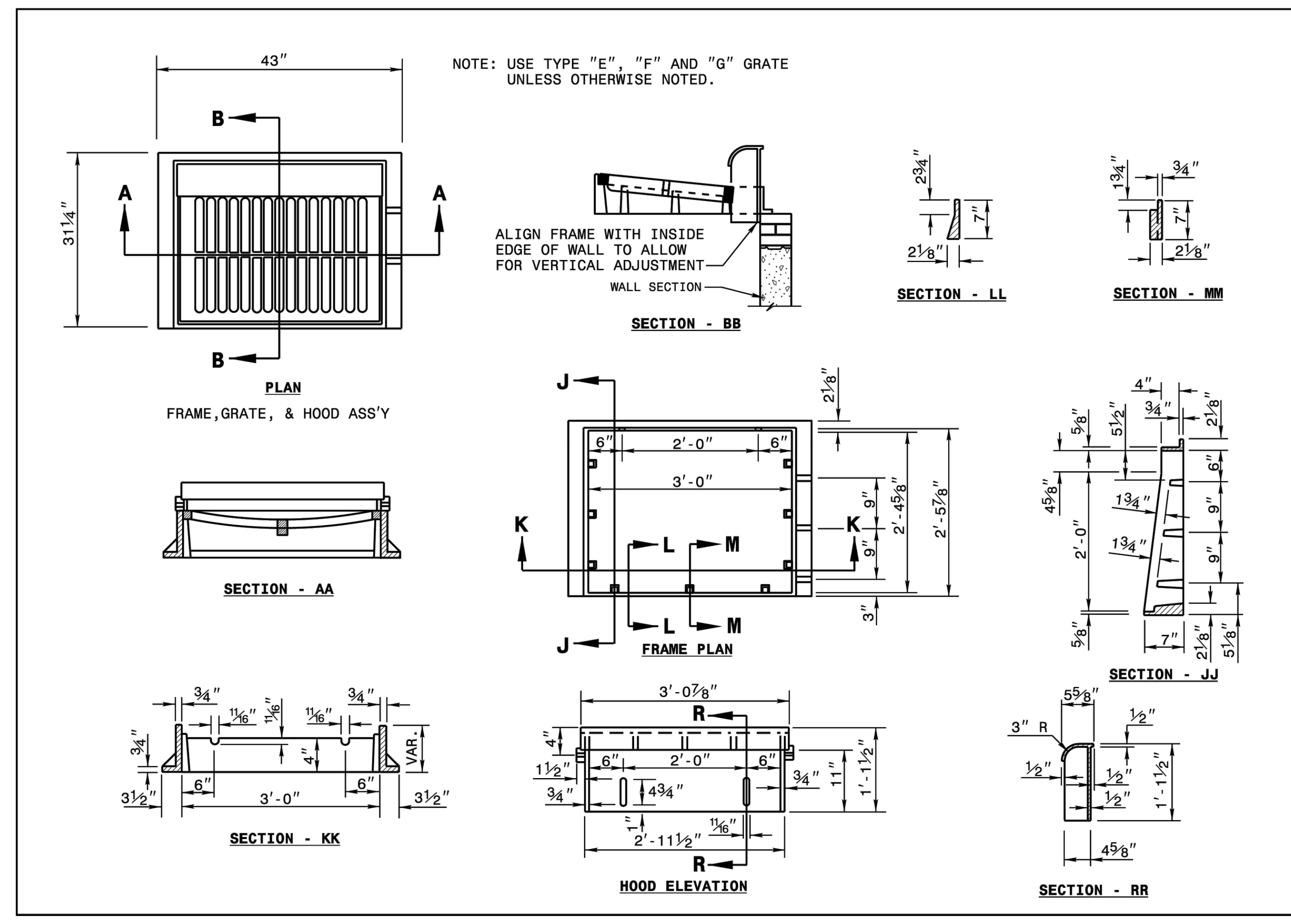
MINIMUM DIMENSIONS AND QUANTITIES FOR CONCRETE CATCH BASIN(BASED ON MIN. HEIGHT, H, WITH NO RISER) *

DIMENSIONS OF BOX AND PIPE						COVER DIMENSION		BARS-U		BARS-V		BARS-W		TOTAL LBS.	CU.YDS. CONC. IN BOX			DEDUCTIONS ONE PIPE	
PIPE	SPAN	WIDTH	WIDTH	SPAN	MIN. HEIGHT										TOP SLAB	BOTTOM SLAB	TOT. CONC. FOR MINIMUM HEIGHT, H		
D	A	B	C	G	H	E	F	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH					C.M.	R.C.
12"	3'-0"	2'-2"	--	--	2'-9"	--	--	--	--	--	--	--	--	--	--	0.235	0.772	0.015	0.026
15"	3'-0"	2'-2"			3'-0"											0.235	0.829	0.023	0.036
18"	3'-0"	2'-2"			3'-3"											0.235	0.887	0.033	0.049
24"	3'-0"	2'-2"			3'-9"											0.235	1.001	0.059	0.085
30"	3'-0"	2'-2"	3'-4"		4'-3"	1'-2"	4'-0"	4	1'-5"	2	3'-9"	3	3'-9"	39	0.123	0.321	1.433	0.092	0.127
36"	3'-0"	2'-2"	3'-10"		4'-9"	1'-8"	4'-0"	4	1'-11"	3	3'-9"	3	3'-9"	43	0.161	0.358	1.714	0.132	0.178
42"	3'-0"	2'-2"		4'-5"	5'-3"	1'-5"	3'-2"	4	1'-8"	2	2'-11"	3	2'-11"	32	0.112	0.318	1.738	0.180	0.243
48"	3'-0"	2'-2"		5'-0"	5'-9"	2'-0"	3'-2"	4	2'-3"	3	2'-11"	3	2'-11"	35	0.145	0.352	2.052	0.235	0.317
54"	3'-0"	2'-2"		5'-7"	6'-3"	2'-7"	3'-2"	4	2'-10"	5	2'-11"	3	2'-11"	41	0.180	0.386	2.387	0.297	0.401

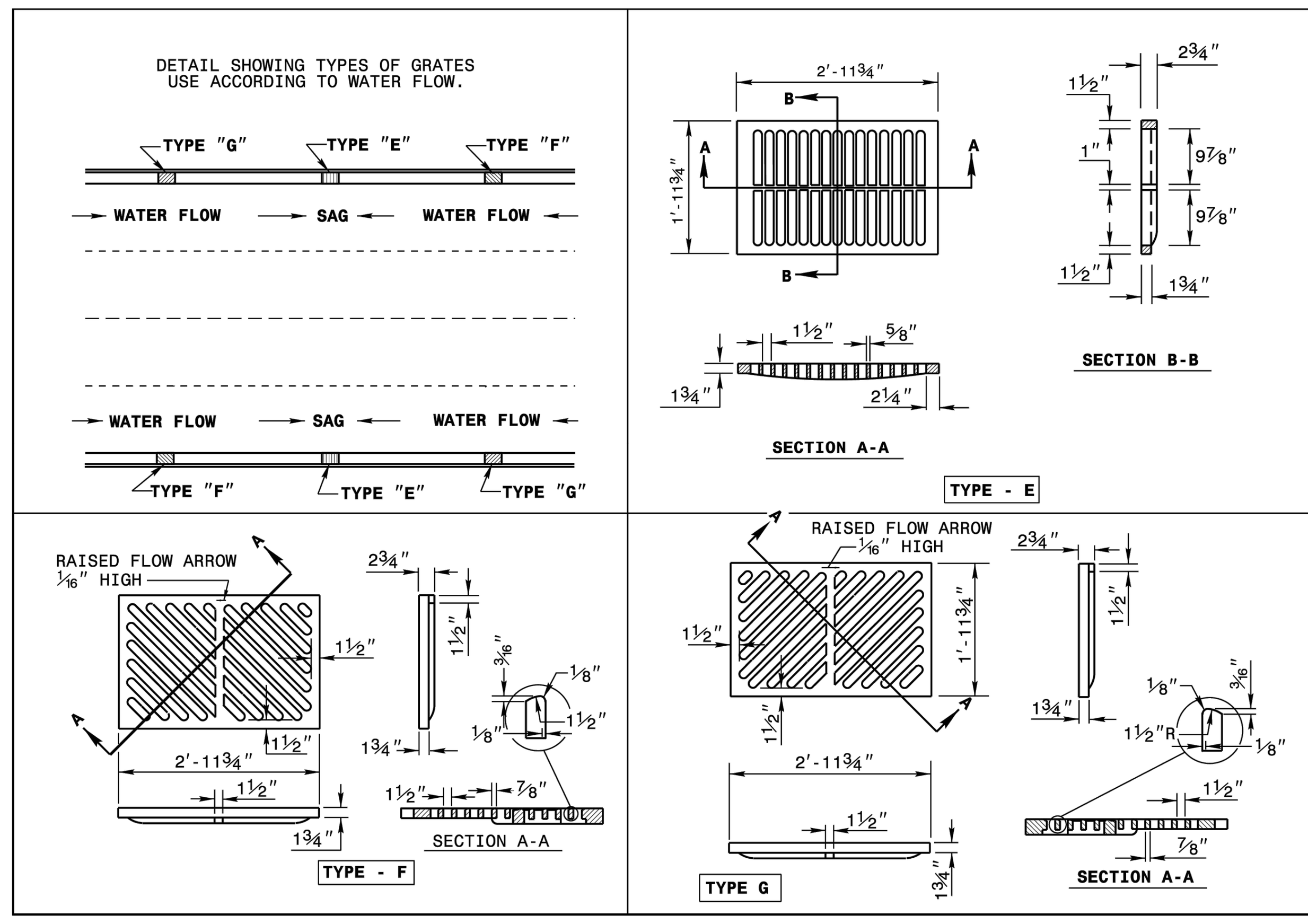
* RISER HAS .228 CUBIC YARDS OF CONCRETE PER FOOT HEIGHT

ROADWAY STANDARD DRAWING FOR FRAME, GRATES, AND HOOD FOR USE ON STANDARD CATCH BASIN
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. — 1-24 — SHEET 1 OF 2 — 840.03

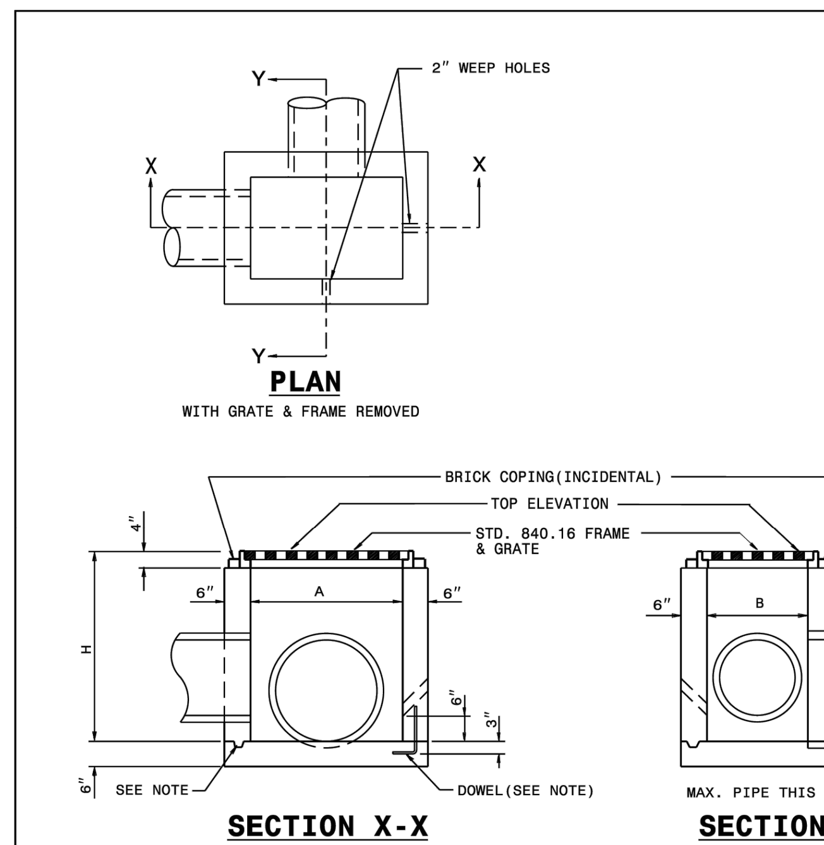
NOTE: USE TYPE "E", "F" AND "G" GRATE UNLESS OTHERWISE NOTED.



ROADWAY STANDARD DRAWING FOR FRAME, GRATES, AND HOOD FOR USE ON STANDARD CATCH BASIN
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. — 1-24 — SHEET 2 OF 2 — 840.03



ROADWAY STANDARD DRAWING FOR CONCRETE DROP INLET 12" THRU 30" PIPE
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. — 1-24 — SHEET 1 OF 1 — 840.14



GENERAL NOTES:

USE CLASS "B" CONCRETE THROUGHOUT.

PROVIDE ALL DROP INLETS OVER 3'-6" IN DEPTH WITH STEPS 12" ON CENTER. USE STEPS WHICH COMPLY WITH STD. DRAWING 840.66.

OPTIONAL CONSTRUCTION - MONOLITHIC POUR 2" KEYWAY OR #4 BAR DOWELS AT 12" CENTERS AS DIRECTED BY THE ENGINEER.

USE FORMS FOR THE CONSTRUCTION OF THE BOTTOM SLAB.

IF REINFORCED CONCRETE PIPE IS SET IN BOTTOM SLAB OF BOX, ADD TO SLAB AS SHOWN ON STD. NO. 840.00.

MAX.DEPTH OF THIS STRUCTURE FROM TOP OF BOTTOM SLAB TO TOP ELEVATION IS 12'-0". STD. DWG. 840.45 OR 840.46 CONTROLS MAXIMUM DEPTH IF PRECAST BOX IS USED.

CONSTRUCT WITH PIPE CROWNS MATCHING.

SEE STANDARD DRAWING 840.25 FOR ATTACHMENT OF FRAMES AND GRATES NOT SHOWN.

INSTALL 2" WEEPHOLES AS DIRECTED BY THE ENGINEER.

INSTALL STONE DRAINS, OF A MINIMUM OF 1 CUBIC FOOT OF NO. 78M STONE IN A POROUS FABRIC BAG OR WRAP, AT EACH WEEP HOLE OR AS DIRECTED BY THE ENGINEER.

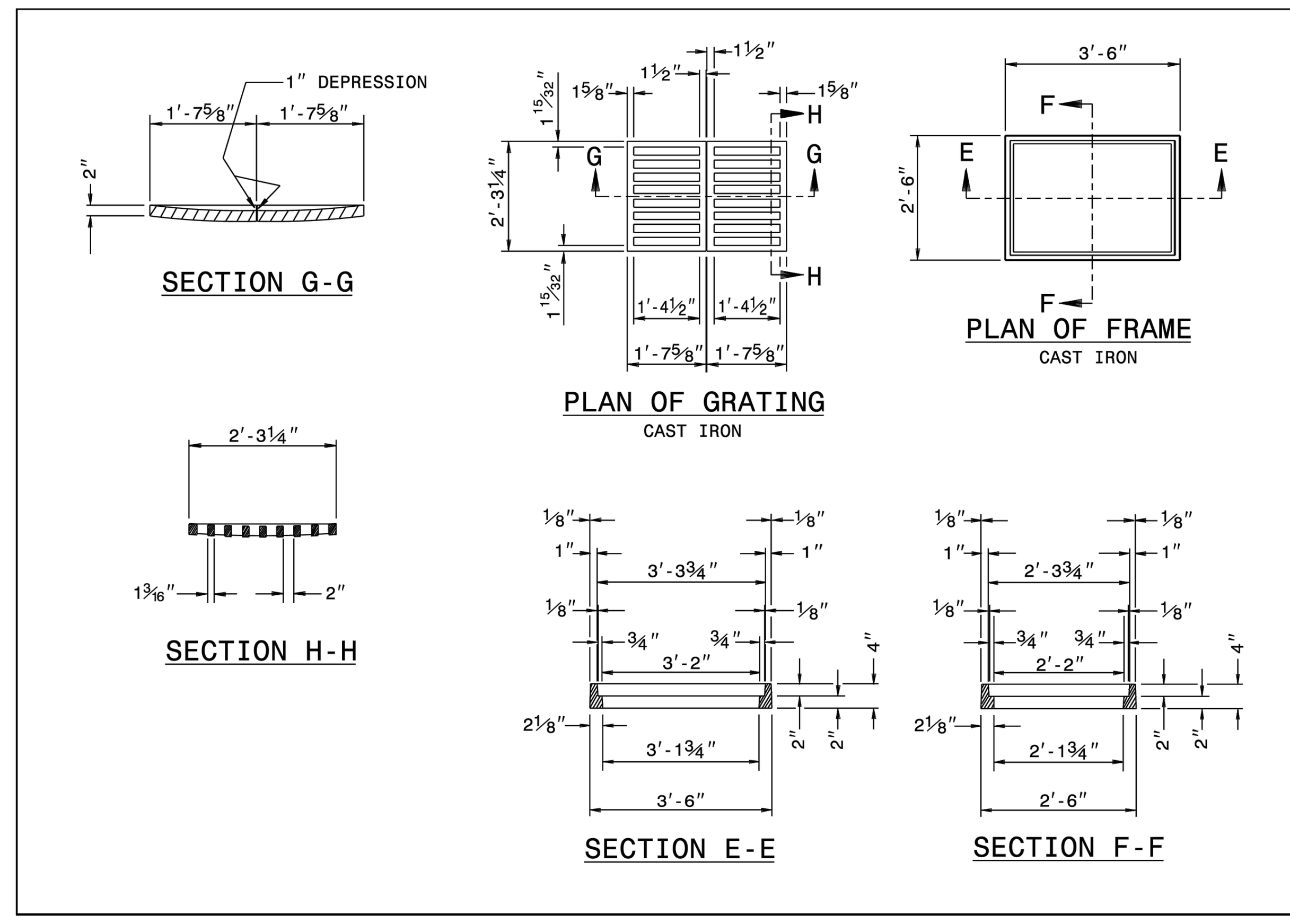
CHAMFER ALL EXPOSED CORNERS 1".

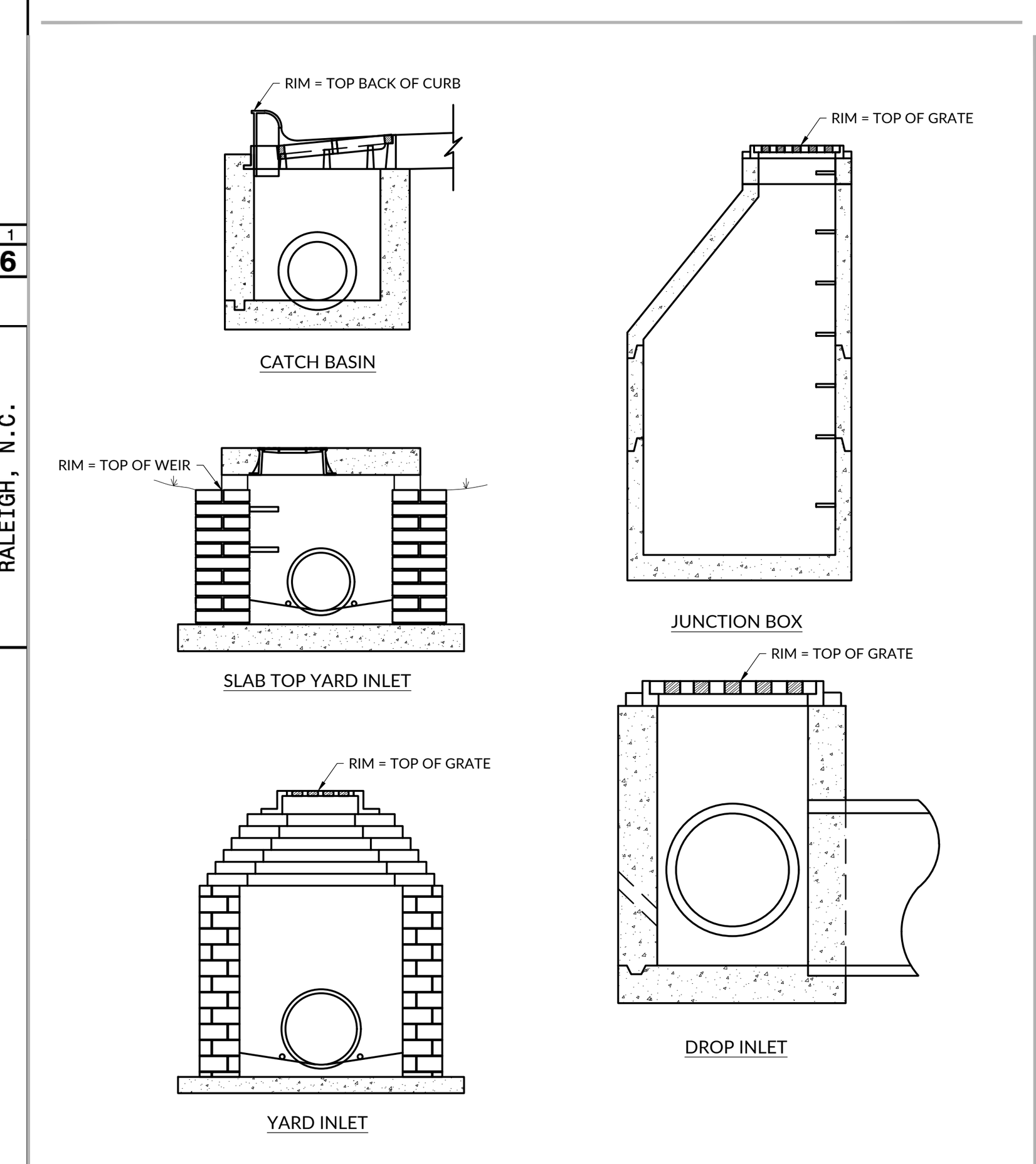
DRAWING NOT TO SCALE.

DIMENSIONS AND QUANTITIES FOR DROP INLET(BASED ON MIN. HEIGHT, H)

DIMENSIONS OF BOX & PIPE				CUBIC YARDS CONC. IN BOX			DEDUCTIONS FOR ONE PIPE	
PIPE	SPAN	WIDTH	MIN. HEIGHT					
D	A	B	H	BOTTOM SLAB	WALL PER FT. HT.	TOTAL CONCRETE FOR MINIMUM HEIGHT, H	C.M.	R.C.
12"	3'-0"	2'-0"	2'-0"	0.222	0.222	0.592	0.015	0.026
15"	↕	↕	2'-3"	↕	↕	0.648	0.023	0.036
18"			2'-6"			0.703	0.033	0.049
24"			3'-0"			0.814	0.059	0.085
30"	3'-0"	2'-0"	3'-6"	0.222	0.222	0.925	0.092	0.127

ROADWAY STANDARD DRAWING FOR DROP INLET FRAME AND GRATES FOR USE WITH STD. DWG.S 840.14 AND 840.15
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. — 1-24 — SHEET 1 OF 1 — 840.16

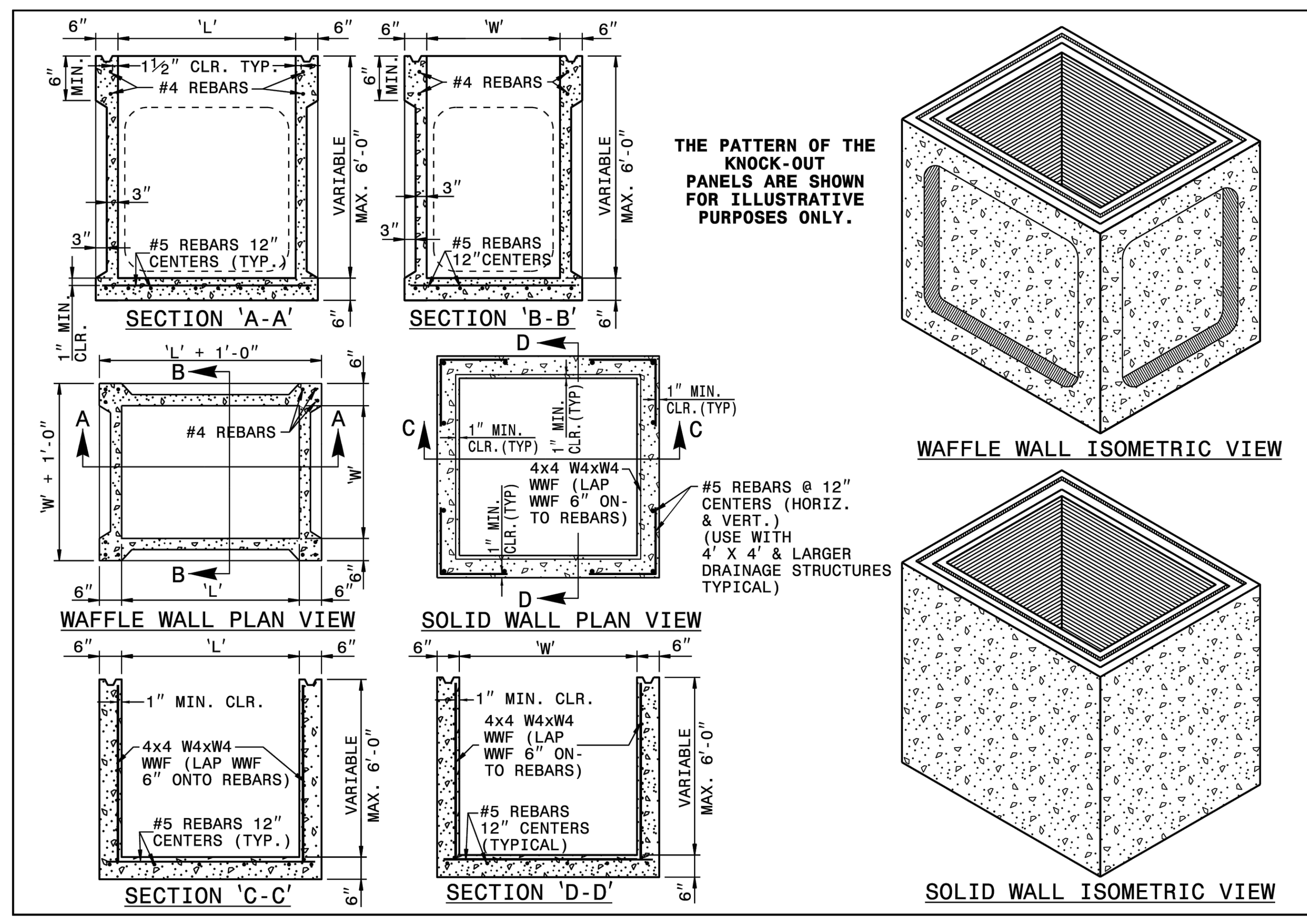




NOTES:
1. THIS DETAIL IS PROVIDED TO CLARIFY RIM ELEVATIONS ONLY.
2. REFER TO OTHER DETAILS AS APPROPRIATE FOR DETAILED REQUIREMENTS.
3. FOR RETROFIT PROJECTS, A RIM ELEVATION OF THE CATCH BASIN GRATE MAY BE REQUIRED.

STRUCTURE RIM ELEVATIONS — Scale:NTS — STORM DRAINAGE COLLECTION SYSTEMS — C8013

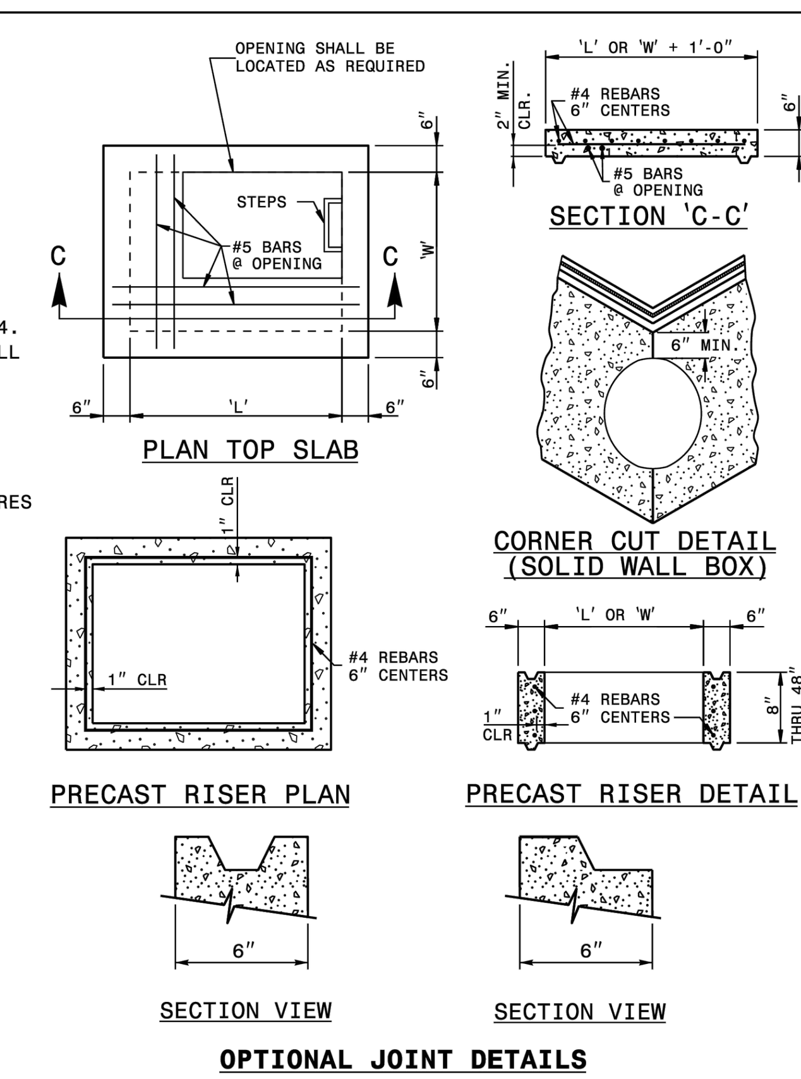
ROADWAY STANDARD DRAWING FOR PRECAST DRAINAGE STRUCTURE (SOLID AND WAFFLE WALL)
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. — 1-24 — SHEET 2 OF 2 — 840.45



ROADWAY STANDARD DRAWING FOR PRECAST DRAINAGE STRUCTURE (GENERAL NOTES AND DETAILS)
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. — 1-24 — SHEET 1 OF 2 — 840.45

GENERAL NOTES:

* THIS PRECAST BOX MAY BE USED FOR THE FOLLOWING STANDARDS: 840.01, 840.02, 840.04, 840.05, 840.13, 840.14, 840.15, 840.17, 840.18, 840.19, 840.26, 840.27, 840.28, 840.31, 840.32 AND 840.41.
* INSTALL PRECAST DRAINAGE STRUCTURES AND PAY FOR IN ACCORDANCE WITH SPECIFICATION SECTION 840.
* DO NOT PLACE PRECAST DRAINAGE STRUCTURES UNDER TRAFFIC OR WHERE TRAFFIC WILL BE DETOURED.
* USE 4000 PSI CONCRETE.
* PROVIDE ALL REINFORCING STEEL WHICH MEETS ASTM A615 FOR GRADE 60 AND WELDED WIRE FABRIC CONFORMING TO ASTM A1064.
* LIMIT MAXIMUM DEPTH TO TOP OF BOTTOM SLAB FOR WAFFLE WALL STRUCTURE TO 10'-0"; LIMIT SOLID WALL STRUCTURE TO 15'-0".
* PLACE LIFT HOLES OR PINS IN ACCORDANCE WITH OSHA STANDARD 1926.704.
* CUT OR FORM OPENINGS FOR PIPE TO PROVIDE REQUIRED SIZE AND LOCATION. ORIENT WAFFLE WALL STRUCTURES SO THAT PIPES ENTER THROUGH THE KNOCKOUT/WAFFLE PANELS ONLY. PIPES MAY ENTER THROUGH THE CORNERS OF SOLID WALL BOXES IF A MINIMUM OF 6" OF WALL IS PROVIDED ABOVE THE HOLE.
* ALL ELEMENTS PRECAST TO MEET ASTM C913.
* FRAME AND GRATE HEIGHT MAY BE ADJUSTED WITH CONCRETE OR BRICK IN ACCORDANCE WITH STANDARD 840.25.
* PROVIDE PRECAST STRUCTURES OVER 3'-6" IN DEPTH WITH STEPS AS DIRECTED BY THE ENGINEER.
* WELDED WIRE FABRIC MAY BE SUBSTITUTED FOR REBAR AS LONG AS THE SAME AREA OF STEEL IS PROVIDED.
* SEAL JOINTS WITH A FLEXIBLE BUTYL RUBBER BASE CONFORMING TO FEDERAL SPECIFICATION SS-S-21A, AASHTO M-198, TYPE B - BUTYL RUBBER.
* LIMIT MAXIMUM STRUCTURE SIZE TO INSIDE CLEAR DIMENSIONS OF 5'-0" X 5'-0".
* THE OUTSIDE PIPE DIAMETER PLUS 2" OR THE OPENING REQUIRED FOR FRAME AND GRATE IS THE MINIMUM STRUCTURE SIZE WHICHEVER IS GREATER.
* USE MANHOLE FRAME AND COVER AS INDICATED ON THE PLANS. REINFORCE OPENING AS SHOWN ON THIS SHEET.



ROADWAY STANDARD DRAWING FOR PRECAST MANHOLE 4', 5' AND 6' DIAMETER 12" THRU 48" PIPE
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. — 1-24 — SHEET 1 OF 1 — 840.52

GENERAL NOTES

USE 4000 PSI MINIMUM COMPRESSIVE STRENGTH CONCRETE.

USE ASTM A615 GRADE 60 REINFORCING STEEL. USE ASTM A1064 WELDED WIRE FABRIC (WWF).

FABRICATE, ASSEMBLE AND DESIGN PRECAST MANHOLE COMPONENTS ACCORDANCE WITH AASHTO M199.

ASSEMBLE RISER AND GRADE RINGS WITH THE STEPS SPACED 12" FROM THE TOP TO THE BOTTOM OF THE MANHOLE.

THE HEIGHT OF GRADE ADJUSTMENT RINGS PLUS FRAME AND COVER SHALL NOT EXCEED 24".

WHERE THE MANHOLE IS EXPOSED TO ROAD TRAFFIC, CONSTRUCT THE TOP OF THE MANHOLE FLUSH WITH THE GROUND AND A MINIMUM OF 9" ABOVE THE GROUND AT OTHER LOCATIONS.

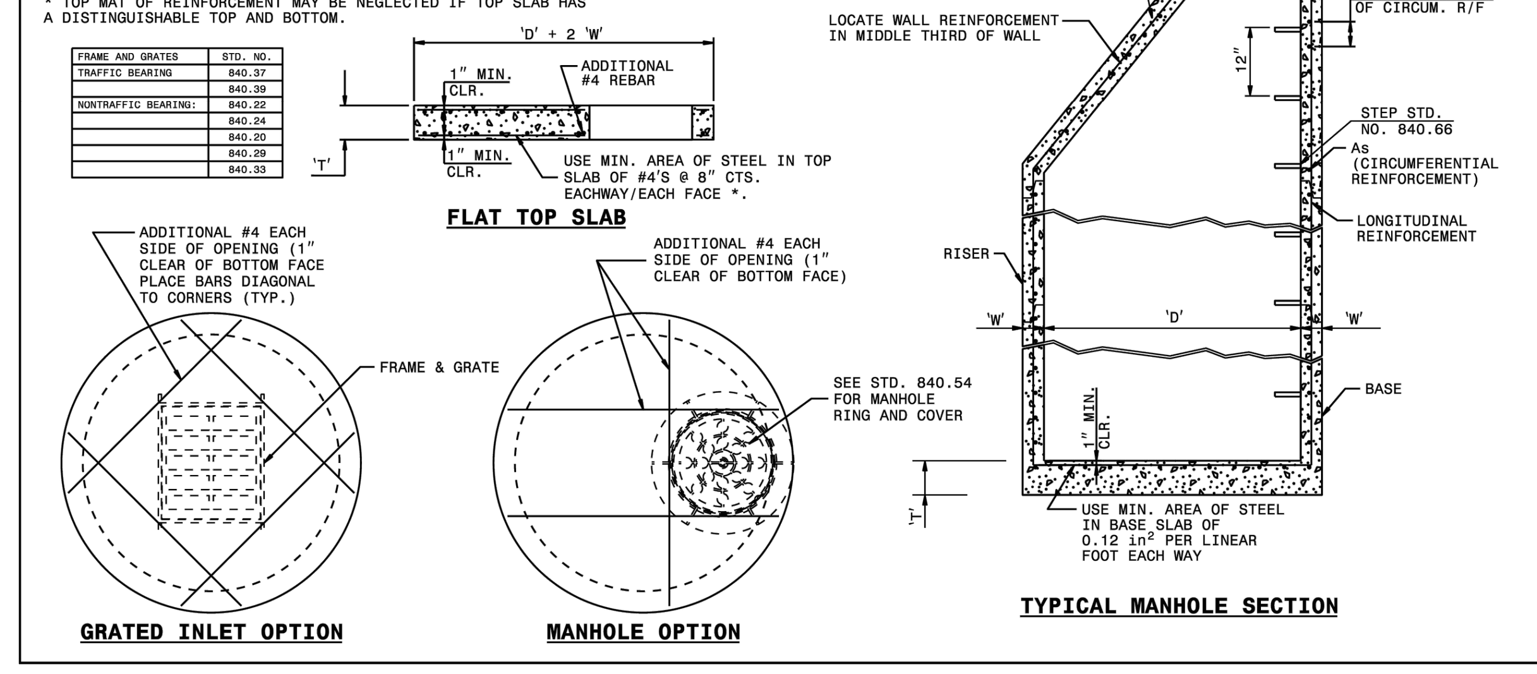
LIMIT DEPTH OF FILL TO 30'-0" FROM FINISH GRADE TO TOP OF BOTTOM SLAB.

THE MIN. SLAB THICKNESS 'T' IS THE DIMENSION OF THE THINNEST PORTION OF THE TOP/BOTTOM SLAB.

* TOP MAT OF REINFORCEMENT MAY BE NEGLECTED IF TOP SLAB HAS A DISTINGUISHABLE TOP AND BOTTOM.

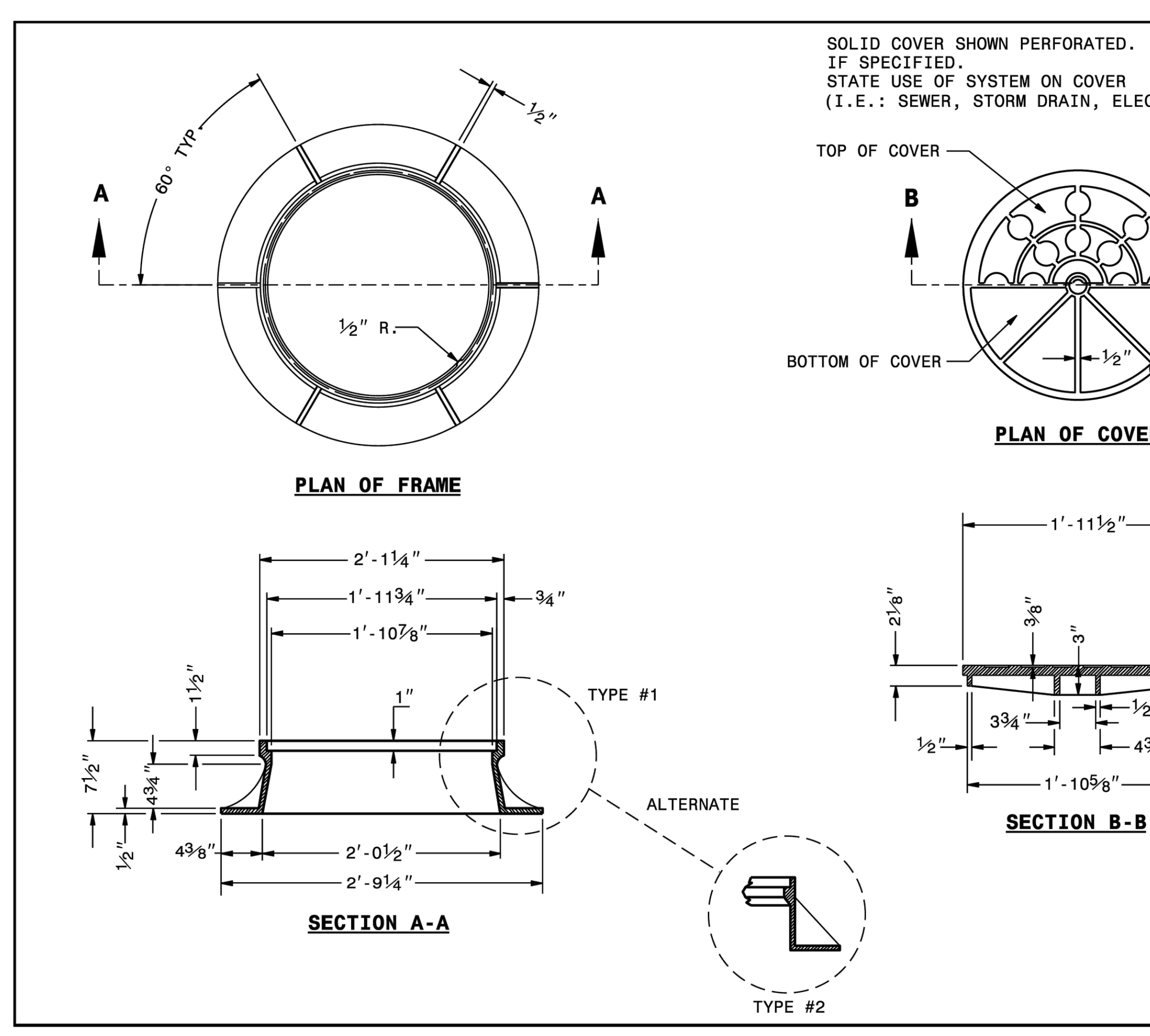
D	W	T	As
INTERNAL DIAMETER (FT.)	MIN. WALL THICKNESS (IN.)	MIN. TOP/BOTTOM SLAB THICKNESS (IN.)	MIN. CIRCUMFERENTIAL AREA OF STEEL PER VERTICAL FT. (SQ. IN.)
4	4	6	0.12
5	5	8	0.15
6	6	8	0.18

FRAME AND GRATES	STD. NO.
TRAFFIC BEARING	840.37
	840.39
NONTRAFFIC BEARING:	840.22
	840.24
	840.20
	840.29
	840.33



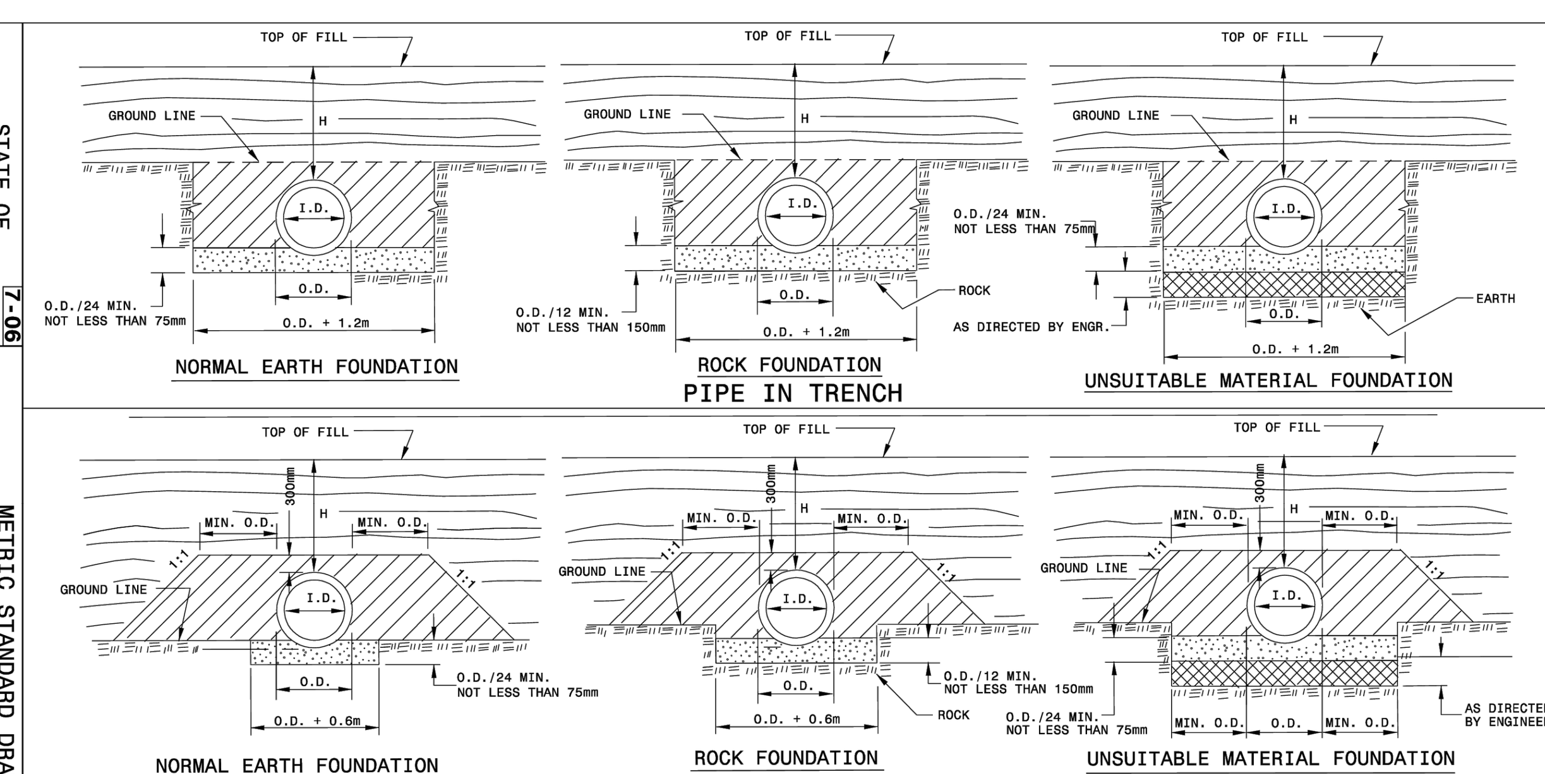
ROADWAY STANDARD DRAWING FOR MANHOLE FRAME AND COVER
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. — 1-24 — SHEET 1 OF 1 — 840.54

SOLID COVER SHOWN PERFORATED. PERFORATED AVAILABLE IF SPECIFIED.
STATE USE OF SYSTEM ON COVER (I.E.: SEWER, STORM DRAIN, ELECTRICAL)



MINIMUM WEIGHTS - LBS.
FRAME - 180
COVER - 120
TOTAL - 300

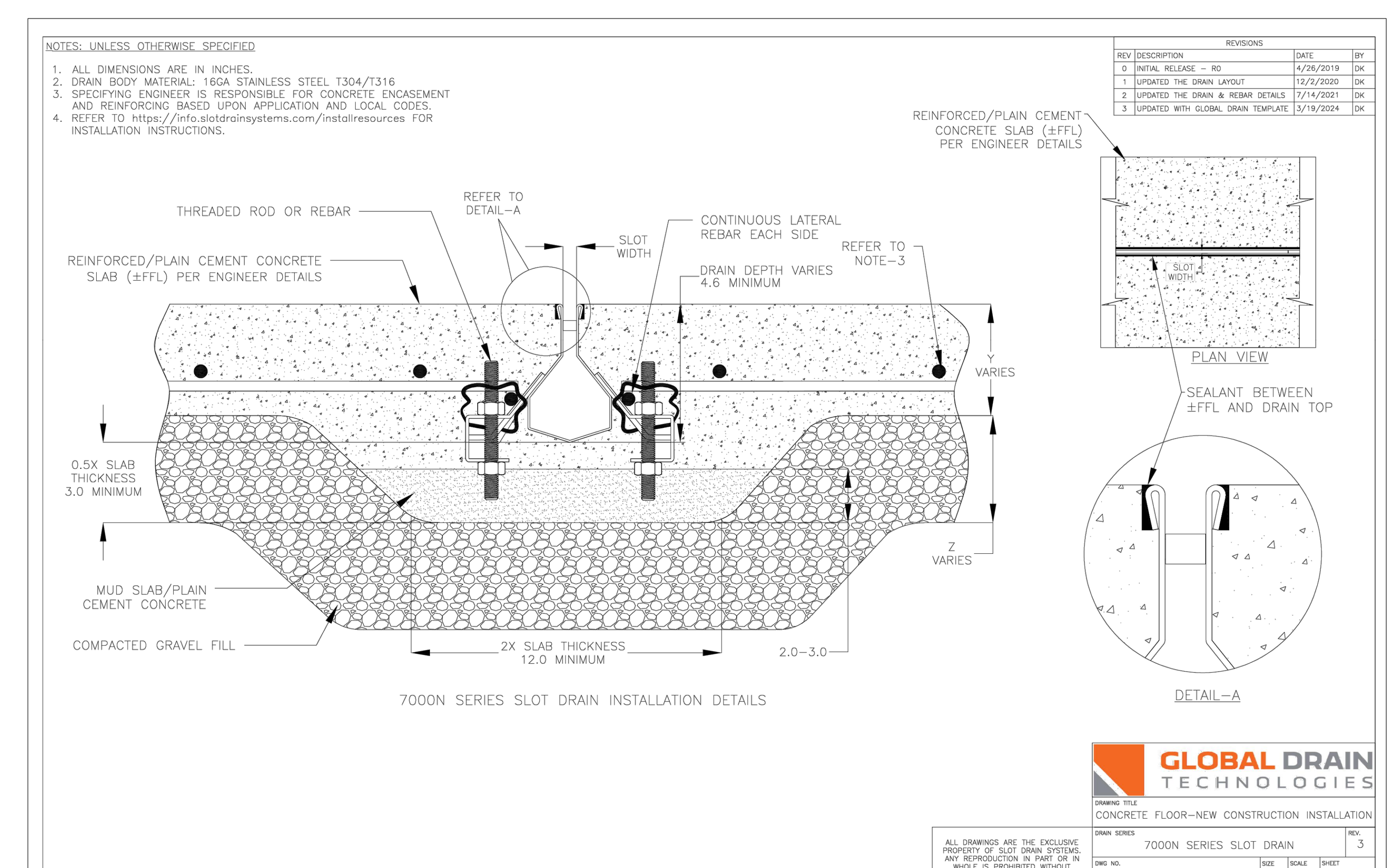
METRIC STANDARD DRAWING FOR METHOD OF PIPE INSTALLATION METHOD 'A'
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. — 7-06 — SHEET 1 OF 1 — 300.01



GENERAL NOTES:
I.D. = THE MAXIMUM HORIZONTAL INSIDE DIMENSION.
O.D. = THE MAXIMUM HORIZONTAL OUTSIDE DIMENSION.
H = THE FILL HEIGHT MEASURED VERTICALLY AT ANY POINT ALONG THE PIPE FROM THE TOP OF THE PIPE TO THE TOP OF THE EMBANKMENT AT THAT POINT.

Note: This drawing is dimensioned in millimeters unless otherwise depicted within the drawing.

7000N SERIES SLOT DRAIN INSTALLATION DETAILS



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CONSTRUCTION PLANS
TRI POINTE HOMES SERENITY AMENITY
STREAMSIDE TERRACE | HARNETT COUNTY, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 046230 DAVID L. STARKEL

Signed by: David Starkel 5/27/2025
438D5C988B8F438...

INITIAL PLAN DATE: 05/23/2025
REVISIONS:
-
-
-

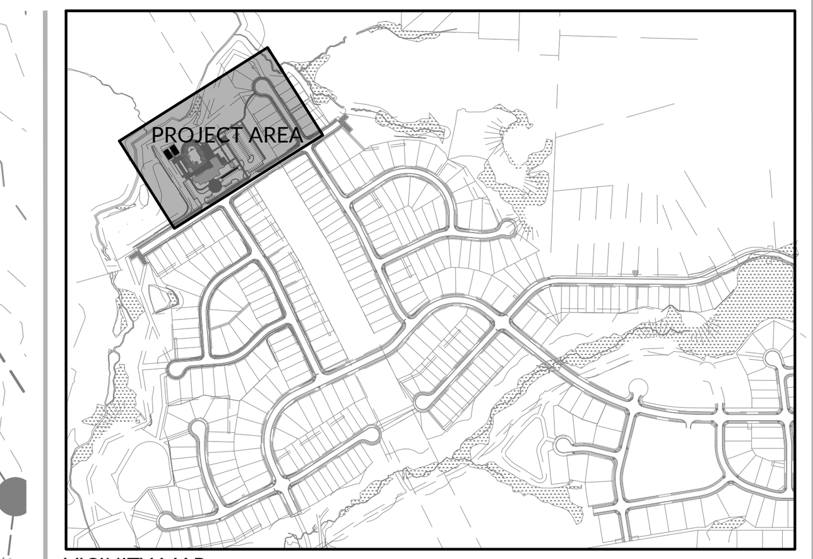
WR JOB NUMBER 23-1177
DRN: WR DGN: WR CKD: WR

STORM DETAILS

C5.09

EST. 1983

GREENFIELD SERENITY INVESTCO LLC
D.B. 3952, PG. 793
SERENITY OS 12
B.M. 2022, PG. 45-50
B.M. 2021, PG. 21-26
PIN: 0645-95-3686.000
PID: 080655 0029 03
EXISTING WETLAND
LIMITS OF DISTURBANCE, TYP.
SILT FENCE, TYP.
LP: 329.17
331-DI
RIM: 328.67'
INV. IN: 323.65' (332-DI)
INV. OUT: 320.50' (OUTFALL - 2)
72-MH
RIM: 335.96'
INV. IN: 322.54'
INV. OUT: 322.34'
EXISTING STREAM
332-DI
RIM: 331.95'
INV. IN: 326.20' (333-DI)
INV. OUT: 326.00' (331-DI)
333-DI
RIM: 345.10'
INV. IN: 334.95' (336-CB)
INV. IN: 341.90' (334-DI)
INV. OUT: 334.75' (332-DI)
74-MH
RIM: 337.64'
INV. IN: 325.62'
INV. OUT: 325.42'
76-MH
RIM: 340.28'
INV. IN: 328.35'
INV. OUT: 326.92'
337-CB
RIM: 344.91'
INV. IN: 337.00' (338-CB)
INV. OUT: 336.50' (336-CB)
INLET PROTECTION
DIRECT RUNOFF INTO PROTECTED INLET
71-MH
RIM: 339.69'
INV. IN: 322.19'
INV. OUT: 321.99'
73-MH
RIM: 337.43'
INV. IN: 323.85'
INV. OUT: 323.65'
334-DI
RIM: 346.21'
INV. IN: 342.80' (335-DI)
INV. OUT: 342.60' (333-DI)
336-CB
RIM: 346.01'
INV. IN: 336.05' (337-CB)
INV. OUT: 335.85' (333-DI)
77-MH
RIM: 346.46'
INV. IN: 336.52'
INV. OUT: 336.32'
OUTFALL - 2
RIM: 323.88'
INV. IN: 319.50' (331-DI)
EXISTING RETAINING WALL #9 W/ SAFETY FENCE
CONCENTRATION OUTLET, TYP.
GREENFIELD SERENITY DEVCO LLC D.B. 3952, PG. 789
SERENITY
IOS 7 AMENITY AREA
B.M. 2022, PG. 45-50
B.M. 2021, PG. 26
PIN: 0645-84-9879.000
PID: 080655 0034 04
IOS 7 AMENITY AREA
NEW AREA
7.894 ACRES-343,842 S.F.
OLD AREA
7.684 ACRES
335-DI
RIM: 352.17'
INV. OUT: 348.90' (334-DI)
341-CB
RIM: 353.82'
INV. OUT: 349.20' (340-CB)
SCM 3
CONCRETE WASHOUT, TYP.
CONSTRUCTION ENTRANCE, TYP.
(MAINTAIN CONSTRUCTION ENTRANCE UNTIL DRIVEWAY IS PAVED)
TRANQUILITY WAY 50' PUBLIC R/W & UE
EXISTING R/W
EXISTING 5' SIDEWALK
314A-CB
RIM: 347.76'
INV. IN: 343.10' (314B-CB)
INV. OUT: 342.90' (313-CB)
78-MH
RIM: 362.05'
INV. IN: 345.45'
INV. IN: 347.23'
INV. OUT: 345.25'
STREAMSIDE TERRACE 60' PUBLIC R/W & UE
STREAMSIDE TERRACE 50' PUBLIC R/W & UE
8" C900 PVC
8" SDR-35 PVC
66-MH
RIM: 339.42'
INV. IN: 320.27'
INV. IN: 331.36'
INV. OUT: 320.16'
308-CB
RIM: 343.47'
INV. IN: 337.50' (309-CB)
INV. OUT: 337.30' (307-CB)
67-MH
RIM: 345.51'
INV. IN: 334.90'
INV. OUT: 334.70'
313-CB
RIM: 347.76'
INV. IN: 341.20' (315-CB)
INV. IN: 342.55' (314A-CB)
INV. OUT: 341.00' (312-CB)
315-CB
INV. IN: 343.40' (316-YI)
INV. OUT: 342.90' (313-CB)
352-CB
RIM: 363.06'
307-CB
RIM: 334.61'
INV. IN: 328.60' (308-CB)
INV. OUT: 328.40' (302-CB)
309-CB
RIM: 346.55'
INV. IN: 339.85' (310-CB)
INV. IN: 339.10' (312-CB)
INV. OUT: 338.60' (308-CB)
312-CB
RIM: 346.55'
INV. IN: 339.65' (313-CB)
INV. OUT: 339.45' (309-CB)
SERENE CROSSING 60' PUBLIC R/W & UE



VICINITY MAP

EROSION CONTROL LEGEND

- LIMITS OF DISTURBANCE
- SILT FENCE
- INLET PROTECTION
- SILT FENCE OUTLET
- TEMPORARY CONCRETE WASHOUT AREA
- TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

TOTAL LIMITS OF DISTURBANCE: 3.73 AC

WithersRavenel
our people • your success
201 S Tryon Street | Suite 800 | Charlotte, NC 28202
License #: F-1479 | t: 704.919.1242 | www.withersravenel.com

Tri Pointe Homes
5440 Wade Park Blvd Suite 400
Raleigh, NC 27607

CONSTRUCTION PLANS
TRI POINTE HOMES SERENITY AMENITY
STREAMSIDE TERRACE | HARNETT COUNTY, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL ENGINEER
SEAL 046230
DAVID L. STARKEL

Signed by:
David Starkel
5/27/2025

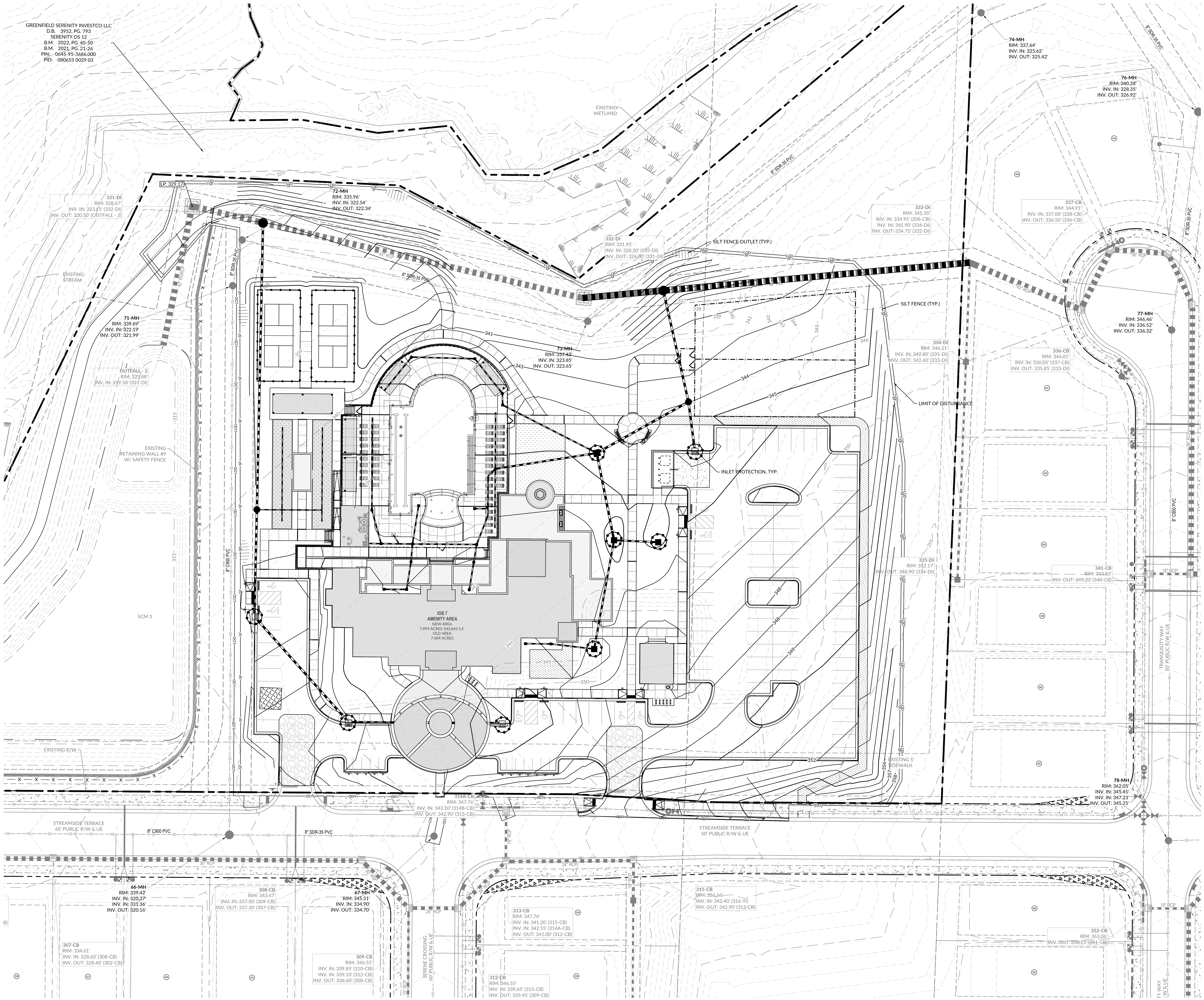
SCALE: 1 inch = 30 ft.

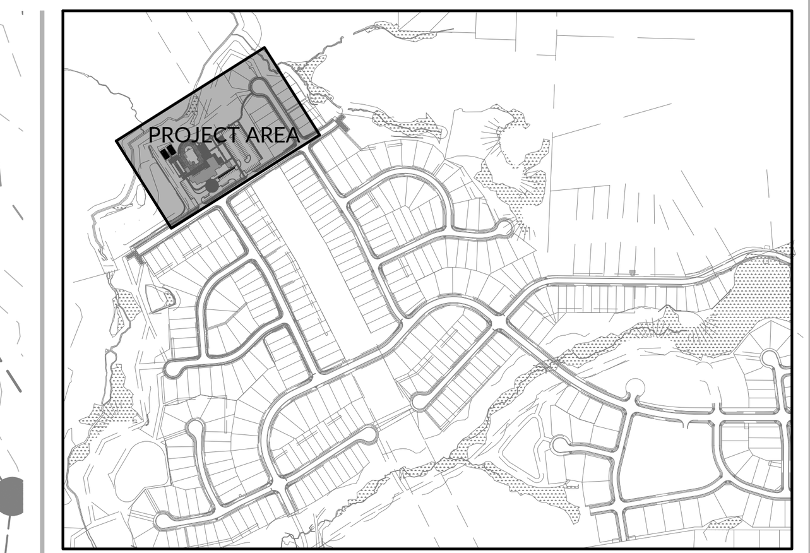
INITIAL PLAN DATE: 05/23/2025
REVISIONS:

WR JOB NUMBER	23-1177
DRN: WR	DGN: WR CKD: WR

INITIAL PHASE EROSION CONTROL

C6.00





VICINITY MAP

EROSION CONTROL LEGEND

LOD	LIMITS OF DISTURBANCE
SF	SILT FENCE
	INLET PROTECTION
	SILT FENCE OUTLET
	TEMPORARY CONCRETE WASHOUT AREA
	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

TOTAL LIMITS OF DISTURBANCE: 3.73 AC

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CONSTRUCTION PLANS
TRI POINTE HOMES SERENITY AMENITY
STREAMSIDE TERRACE | HARNETT COUNTY, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 046230 ENGINEER DAVID L. STARKEL

Signed by:
David Starkel
5/27/2025

SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 05/23/2025
REVISIONS:

WR JOB NUMBER	23-1177	
DRN: WR	DGN: WR	CKD: WR

FINAL PHASE EROSION CONTROL

C6.01

TEMPORARY SEEDING:

COMPLETE GRADING BEFORE PREPARING SEEDBEDS AND INSTALL ALL NECESSARY EROSION CONTROL PRACTICES SUCH AS DIKES, WATERWAYS, AND BASINS. MINIMIZE STEEP SLOPES BECAUSE THEY MAKE SEEDBED PREPARATION DIFFICULT AND INCREASE THE EROSION HAZARD.

SEEDBED PREPARATION:

GOOD SEEDBED PREPARATION IS ESSENTIAL TO SUCCESSFUL PLANT ESTABLISHMENT. A GOOD SEEDBED IS WELL-PULVERIZED, LOOSE, AND UNIFORM. WHERE HYDROSEEDING METHODS ARE USED, THE SURFACE MAY BE LEFT WITH A MORE IRREGULAR SURFACE OF LARGE CLODS AND STONES.

1. CHISEL COMPACTED AREAS AND SPREAD TOPSOIL 3 INCHES DEEP OVER ADVERSE SOIL CONDITIONS, WITH STOCKPILED TOPSOIL. CONTRACTOR SHALL RESERVE SUFFICIENT TOPSOIL FOR SEEDBED PREPARATION.
2. RIP THE ENTIRE AREA TO 6-INCH DEPTH.
3. REMOVE ALL LOOSE ROCK, ROOTS, AND OTHER OBSTRUCTIONS LEAVING SURFACE REASONABLY SMOOTH AND UNIFORM.
4. APPLY AGRICULTURAL LIME, FERTILIZER, AND SUPER-PHOSPHATE UNIFORMLY AND MIX WITH SOIL (SEE BELOW*).
5. CONTINUE TILLAGE UNTIL A WELL-PULVERIZED, FIRM, REASONABLY UNIFORM SEEDBED IS PREPARED 4 TO 6 INCHES DEEP.
6. SEED ON A FRESHLY PREPARED SEEDBED AND COVER SEED LIGHTLY WITH SEEDING EQUIPMENT OR CULTIPACK AFTER SEEDING.
7. MULCH IMMEDIATELY AFTER SEEDING AND ANCHOR MULCH.
8. INSPECT ALL SEEDED AREAS AND MAKE NECESSARY REPAIRS OR RESEEDINGS WITHIN THE PLANTING SEASON, IF POSSIBLE. IF THE STAND IS LESS THAN 60% ESTABLISHED, THE ENTIRE AREA SHALL BE RESEEDED ACCORDING TO SPECIFICATIONS USING THE ORIGINAL LIME, FERTILIZER AND SEEDING RATES.
9. CONSULT A CONSERVATION INSPECTOR ON MAINTENANCE TREATMENT AND FERTILIZATION AFTER PERMANENT COVER IS ESTABLISHED.

LIME AND FERTILIZER:

BOTH LIME AND FERTILIZER 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.

PLANT SELECTION:

SELECT AN APPROPRIATE SPECIES OR SPECIES MIXTURE FROM THE APPLICABLE SEEDING RECOMMENDATION TABLES DEPENDING ON THE PLANTING SEASON AND WHETHER OR NOT TEMPORARY OR PERMANENT SEEDING. IN THE MOUNTAINS, DECEMBER AND JANUARY SEEDINGS HAVE POOR CHANCES OF SUCCESS. WHEN IT IS NECESSARY TO PLANT AT THESE TIMES, USE RECOMMENDATIONS FOR FALL AND A SECURELY TACKED MULCH.

SEEDING:

EVENLY APPLY SEED USING A CYCLONE SEEDER (BROADCAST), DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. USE SEEDING RATES GIVEN IN TEMPORARY SEEDING RECOMMENDATIONS TABLES. BROADCAST SEEDING AND HYDROSEEDING ARE APPROPRIATE FOR STEEP SLOPES WHERE EQUIPMENT CANNOT BE DRIVEN. HAND BROADCASTING IS NOT RECOMMENDED BECAUSE OF THE DIFFICULTY IN ACHIEVING A UNIFORM DISTRIBUTION. SMALL GRAINS SHOULD BE PLANTED NO MORE THAN 1 INCH DEEP, AND GRASSES AND LEGUMES NO MORE THAN 1/2 INCH. BROADCAST SEED MUST BE COVERED BY RAKING OR CHAIN DRAGGING, AND THEN LIGHTLY FIRMED WITH A ROLLER OR CULTIPACKER. HYDROSEEDED MIXTURES SHOULD INCLUDE A WOOD FIBER (CELLULOSE) MULCH.

MULCHING:

THE USE OF AN APPROPRIATE MULCH WILL HELP ENSURE ESTABLISHMENT UNDER NORMAL CONDITIONS AND IS ESSENTIAL TO SEEDING SUCCESS UNDER HARSH SITE CONDITIONS (NCDEQ PRACTICE 6.14, MULCHING). HARSH SITE CONDITIONS INCLUDE:

- SEEDING IN FALL FOR WINTER COVER (WOOD FIBER MULCHES ARE NOT CONSIDERED ADEQUATE FOR THIS USE),
- SLOPES STEEPER THAN 3:1,
- EXCESSIVELY HOT OR DRY WEATHER,
- ADVERSE SOILS (SHALLOW, ROCKY, OR HIGH IN CLAY OR SAND), AND
- AREAS RECEIVING CONCENTRATED FLOW.

IF THE AREA TO BE MULCHED IS SUBJECT TO CONCENTRATED WATERFLOW, AS IN CHANNELS, ANCHOR MULCH WITH NETTING (NCDEQ PRACTICE 6.14, MULCHING).

TABLE 1 - TEMPORARY SEEDING RECOMMENDATIONS FOR LATER WINTER AND EARLY SPRING

SEEDING MIXTURE	
SPECIES	RATE (LBS/ACRE)
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 2,500 FEET BELOW 2,500 FEET	 FEBRUARY 15 - MAY 15 FEBRUARY 1 - MAY 1
PIEDMONT	JANUARY 1 - MAY 1
COASTAL PLAIN	DECEMBER 1 - APRIL 15
SOIL AMENDMENTS: FOLLOW RECOMMENDATIONS OF SOIL TEST OR APPLY 2,000 LBS/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.	
MULCH: APPLY 4,000 LBS/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: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILZE AND MULCH IMMEDIATELY	

TABLE 2 - TEMPORARY SEEDING RECOMMENDATIONS FOR SUMMER

SEEDING MIXTURE	
SPECIES	RATE (LBS/ACRE)
GERMAN MILLET	40
IN THE PIEDMONT AND MOUNTAINS, A SMALL-STEMMED SUDANGRASS MAY BE SUBSTITUTED	50
SEEDING DATES	
MOUNTAINS	MAY 15 - AUGUST 15
PIEDMONT	MAY 1 - AUGUST 15
COASTAL PLAIN	APRIL 15 - AUGUST 15
SOIL AMENDMENTS: FOLLOW RECOMMENDATIONS OF SOIL TEST OR APPLY 2,000 LBS/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.	
MULCH: APPLY 4,000 LBS/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: REFERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, REFERTILZE AND MULCH IMMEDIATELY	

TABLE 3 - TEMPORARY SEEDING RECOMMENDATIONS FOR FALL

SEEDING MIXTURE	
SPECIES	RATE (LBS/ACRE)
RYE (GRAIN)	120
SEEDING DATES	
MOUNTAINS	AUGUST 15 - DECEMBER 15
PIEDMONT	AUGUST 15 - DECEMBER 30
COASTAL PLAIN	AUGUST 15 - DECEMBER 30
SOIL AMENDMENTS: FOLLOW RECOMMENDATIONS OF SOIL TEST OR APPLY 2,000 LBS/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LB/ACRE 10-10-10 FERTILIZER.	
MULCH: APPLY 4,000 LBS/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 REFERTILIZE DAMAGED AREAS IMMEDIATELY. TOP DRESS WITH 50 LBS/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LBS/ACRE KOBE (PIEDMONT AND COASTAL PLAIN) OR KOREAN (MOUNTAINS) LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.	

PERMANENT SEEDING:

GENERAL REQUIREMENTS:

1. PREPARATION FOR PRIMARY/PERMANENT STABILIZATION SHALL NOT BEGIN UNTIL ALL CONSTRUCTION AND UTILITY WORK WITHIN THE PREPARATION AREA IS COMPLETE. HOWEVER, IT MAY BE NECESSARY TO PREPARE FOR NURSE CROPS PRIOR TO THE COMPLETION OF CONSTRUCTION AND INSTALLATION OF UTILITIES.
2. A NORTH CAROLINA DEPARTMENT OF AGRICULTURE SOILS TEST (OR EQUAL) SHALL BE OBTAINED FOR ALL AREAS TO BE SEEDED, SPRIGGED, SODDED OR PLANTED. RECOMMENDED FERTILIZER AND PH ADJUSTING PRODUCTS SHALL BE INCORPORATED INTO THE PREPARED AREAS AND BACKFILL MATERIAL PER THE TEST.
3. ALL AREAS TO BE SEEDED OR PLANTED SHALL BE TILLED OR RIPPED TO A DEPTH OF SIX INCHES (6"). RIPPING CONSISTS OF CREATING FISSURES IN A CRISS-CROSS PATTERN OVER THE ENTIRE SURFACE AREA, UTILIZING AN IMPLEMENT THAT WILL NOT GLAZE THE SIDE WALLS OF THE FISSURES. SITE PREPARATION THAT DOES NOT COMPLY WITH THESE DOCUMENTS SHALL NOT BE ACCEPTABLE. THE DEPTH OF SOIL PREPARATION MAY BE ESTABLISHED AS A RANGE BASED ON THE APPROVAL OF THE REVIEWING STATE OR LOCAL AGENCY. ONCE TILLED OR RIPPED ACCORDING TO THE APPROVED PLAN, ALL AREAS ARE TO BE RETURNED TO THE APPROVED FINAL GRADE. PH MODIFIERS AND/OR OTHER SOIL AMENDMENTS SPECIFIED IN THE SOIL TESTS CAN BE ADDED DURING THE SOIL PREPARATION PROCEDURE OR AS DESCRIBED BELOW.

AREAS TO BE SEEDED:

1. TILL OR DISC THE PREPARED AREAS TO BE SEEDED TO A MINIMUM DEPTH OF SIX (6) INCHES. REMOVE STONES LARGER THAN THREE (3) INCHES ON ANY SIDE, STICKS, ROOTS AND OTHER EXTRANEOUS MATERIALS THAT SURFACE. IF NOT INCORPORATED DURING THE SOIL PREPARATION PROCESS, ADD PH MODIFIER AND FERTILIZERS AT THE RATE SPECIFIED IN THE SOIL TEST REPORT.
2. RE-COMPACT THE AREA UTILIZING A CULTIPACKER ROLLER. THE FINISHED GRADE SHALL BE A SMOOTH EVEN SOIL SURFACE WITH A LOOSE, UNIFORMLY FINE TEXTURE. ALL RIDGES AND DEPRESSIONS SHALL BE REMOVED AND FILLED TO PROVIDE THE APPROVED SURFACE DRAINAGE. SEEDING OF GRADED AREAS IS TO BE DONE IMMEDIATELY AFTER FINISHED GRADES ARE OBTAINED AND SEEDBED PREPARATION IS COMPLETED.

TABLE 4 - PERMANENT SEEDING RECOMMENDATIONS FOR SHOULDERS, SIDE DITCHES AND SLOPE (3:1 MAX)

SEEDING MIXTURE		
SPECIES	RATE (LBS/ACRE)	DATE
TALL FESCUE	300	AUGUST 15 - NOVEMBER 1
TALL FESCUE & ABRUZZI RYE	300	NOVEMBER 1 - MARCH 2
TALL FESCUE	300	MARCH 1 - APRIL 15
HULLED COMMON BERMUDA GRASS	25	APRIL 15 - JUNE 30
TALL FESCUE AND ***BROWN TOP MILLET OR ***SORGHUM-SUDAN HYBRIDS	125 35 30	JULY 15 - AUGUST15
***TEMPORARY - RESEED ACCORDING TO THE OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12 INCHES IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.		
A CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE SHALL BE CONSULTED FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE. ANY VARIATION FROM THIS LIST SHALL BE PRE-APPROVED BY THE AUTHORITY HAVING JURISDICTION.		

TABLE 5 - PERMANENT SEEDING RECOMMENDATIONS FOR SLOPES 3:1 TO 2:1

SEEDING MIXTURE		
SPECIES	RATE (LBS/ACRE)	DATE
SERICEA LESPEDEZA (SCARIFIED) AND	50	MARCH 1 - JUNE 1
ADD TALL FESUCE AND	120	MARCH 1 - APRIL 15
ADD WEEPING LOVE GRASS OR	10	MARCH 1 - JUNE 30
ADD COMMON BERMUDA GRASS	25	MARCH 1 - JUNE 30
TALL FESCUE AND ***BROWN TOP MILLET OR ***SORGHUM-SUDAN HYBRIDS	125 35 30	JUNE 1 - SEPTEMBER 1
SERICEA LESPEDEZA (UNHULLED-UNSCARIFIED) AND TALL FESCUE	70 120	SEPTEMBER 1 - MARCH 1
ADD ABRUZZI RYE	25	NOVEMBER 1 - MARCH 1
***TEMPORARY - RESEED ACCORDING TO THE OPTIMUM SEASON FOR DESIRED PERMANENT VEGETATION. DO NOT ALLOW TEMPORARY COVER TO GROW OVER 12 INCHES IN HEIGHT BEFORE MOWING, OTHERWISE FESCUE MAY BE SHADED OUT.		
A CONSERVATION ENGINEER OR SOIL CONSERVATION SERVICE SHALL BE CONSULTED FOR ADDITIONAL INFORMATION CONCERNING OTHER ALTERNATIVES FOR VEGETATION OF DENUDED AREAS. THE ABOVE VEGETATION RATES ARE THOSE WHICH DO WELL UNDER LOCAL CONDITIONS; OTHER SEEDING RATE COMBINATIONS ARE POSSIBLE. ANY VARIATION FROM THIS LIST SHALL BE PRE-APPROVED BY THE AUTHORITY HAVING JURISDICTION.		

TABLE 6 - PERMANENT SEEDING SOIL AMENDMENTS

AGRICULTURAL LIMESTONE	2 TONS/ACRE (3 TONS/ACRE IN CLAY SOILS)
FERTILIZER	1,000 LBS/ACRE - 10-10-10
SUPER-PHOSPHATE	500 LBS/ACRE – 20% ANALYSIS
MULCH	2 TONS/ACRE – SMALL GRAIN STRAW
ANCHOR	ASPHALT EMULSION @ 300 GAL/ACRE

SEEDING NON-WETLAND AREAS:

1. TEMPORARY NON-WETLAND SEEDING
   a. SEEDING SCHEDULE - IN ACCORDANCE WITH TABLE 6
   b. SOIL AMENDMENTS
      i. FOLLOW RECOMMENDATIONS OF SOIL TEST OR APPLY 2,000 LBS/ACRE GROUND AGRICULTURAL LIMESTONE AND 750 LBS/ACRE OF 10-10-10 FERTILIZER.
   c. MULCH
      i. APPLY 4,000 LBS/ACRE OF STRAW. ANCHOR STRAW BY TACKING WITH ASPHALT, NETTING, OR MULCH ANCHORING TOOL. A DISK WITH BLADES SET NEARLY STRAIGHT CAN BE USED AS A MULCH ANCHORING TOOL.
   d. MAINTENANCE
      i. WINTER, EARLY SPRING, AND SUMMER
         1. RE-FERTILIZE IF GROWTH IS NOT FULLY ADEQUATE. RESEED, RE-FERTILIZE, AND MULCH IMMEDIATELY EROSION OR OTHER DAMAGE.
      ii. FALL
         1. REPAIR AND RE-FERTILIZE DAMAGED AREAS IMMEDIATELY. TOP DRESS WITH 50 LBS/ACRE OF NITROGEN IN MARCH. IF IT IS NECESSARY TO EXTEND TEMPORARY COVER BEYOND JUNE 15, OVERSEED WITH 50 LBS/ACRE OF KOBE LESPEDEZA IN LATE FEBRUARY OR EARLY MARCH.
   e. TEMPORARY SEEDING MUST BE FOLLOWED WITH PERMANENT SEEDING AS SOON AS PRACTICAL.
2. PERMANENT NON-WETLAND SEEDING
   a. SEED ALL DISTURBED AREAS OF CONSTRUCTION.
   b. NO SEEDING SHOULD BE UNDERTAKEN IN WINDY OR UNFAVORABLE WEATHER, WHEN THE GROUND IS TOO WET TO RAKE EASILY, WHEN IT IS IN A FROZEN CONDITION, OR TOO DRY.
   c. THE SUBGRADE OF ALL AREAS TO BE SEEDED SHALL BE RAKED AND ALL RUBBISH, STICKS, ROOTS, AND STONES LARGER THAN 2 INCHES SHALL BE REMOVED.
   d. THE SUBGRADE SHALL BE SCARIFIED OR OTHERWISE LOOSENED TO A MINIMUM DEPTH OF 4 INCHES.
   e. APPLY GROUND AGRICULTURAL LIMESTONE AT A RATE OF 3,000 - 4,000 LB/ACRE.
   f. APPLY 10-10-10 FERTILIZER AT A RATE OF 1,000 LB/ACRE. FERTILIZER SHALL BE UNIFORMLY SPREAD AND DISKED OR ROTOTILLED TO A DEPTH OF AT LEAST 4 INCHES.
   g. PERMANENT SEEDING
      i. IMMEDIATELY FOLLOWING THIS PREPARATION, PERMANENT SEED SHALL BE UNIFORMLY APPLIED AND LIGHTLY RAKED INTO THE SURFACE. LIGHTLY ROLL THE SURFACE AND WATER WITH FINE SPRAY. PERMANENT SEED SHALL BE APPLIED AT THE FOLLOWING RATES:
      ii. THE BEST SEEDING DATES ARE BETWEEN SEPTEMBER 1 THROUGH SEPTEMBER 30 AND FEBRUARY 15 THROUGH MARCH 20.
      iii. POSSIBLE SEEDING DATES ARE BETWEEN SEPTEMBER 1 THROUGH OCTOBER 31 AND FEBRUARY 15 THROUGH APRIL 30.
      iv. BETWEEN APRIL 15 AND AUGUST 15, ADD 10 LB/ACRE GERMAN MILLET OR 15 LB/ACRE OF SUDANGRASS.
      v. PRIOR TO MAY 1 OR AFTER AUGUST 15 ADD 25 LB/ACRE RYE (GRAIN).
   h. APPLY MULCH AT A RATE OF 4,000 LB/ACRE.
   i. APPLY TACKIFIER AT A RATE OF 10 GAL/1,000FT2.
   j. THE CONTRACTOR SHALL KEEP ALL SEEDED AREAS WATERED AND IN GOOD CONDITION. RESEEDING SHALL BE DONE IF AND WHEN NECESSARY UNTIL A GOOD, HEALTHY, UNIFORM GROWTH IS ESTABLISHED OVER THE ENTIRE AREA SEEDED.
   k. ON SLOPES, THE CONTRACTOR SHALL PROVIDE AGAINST WASHOUTS BY AN APPROVED METHOD. ANY WASHOUT THAT OCCURS SHALL BE REGRADED AND RESEEDED AT THE CONTRACTOR'S EXPENSE UNTIL GOOD SOD IS ESTABLISHED.

TABLE 7 - PERMANENT SEEDING OF NON-WETLAND AREAS

SEEDING MIXTURE		
SPECIES	RATE (LBS/ACRE)	DATE
BERMUDA GRASS	25	APRIL 1 - JUNE 30
KOBE LESPEDEZA	40	MAY 1 - SEPTEMBER 1
TALL FESCUE	120	SEPTEMBER 1 - APRIL 1
SERICEA LESPEDEZA	80	SEPTEMBER 1 - MAY 1

RIPARIAN SEED MIX:

AREAS WITHIN FIFTY FEET (50') OF THE RIPARIAN BUFFER SHALL BE STABILIZED WITH NATIVE SEED MIX. ALL NATIVE SEED MIXTURES SHALL BE FROM MELLOW MARSH FARM (MMF) OR APPROVED EQUAL AND SHALL BE INSTALLED AS NOTED ON THESE PLANS. THE FOLLOWING INSTALLATION OF ALL NATIVE SEED MIXTURES SHALL FOLLOW MANUFACTURER'S BEST PRACTICES FOR NATIVE SEED ESTABLISHMENT. IF AN ALTERNATE SEED MIXTURE IS PROPOSED, THE CONTRACTOR SHALL PROVIDE THE BEST PRACTICES FOR ENGINEER REVIEW PRIOR TO INSTALLATION.

NATIVE SEED MIX SHALL BE INSTALLED AT THE FOLLOWING RATES (OR ALTERNATE AS PROVIDED BY MANUFACTURER AND APPROVED BY ENGINEER).

TABLE 8 – RIPARIAN SEED MIX

SEEDING MIXTURE	
SPECIES	RATE (LBS/ACRE)
MMF NATIVE GRASS MIX	20-25
MMF POLLINATOR MIX	20-25
MMF RIPARIAN BUFFER MIX	20-25
MMF SHADE MIX	20-25
MMF STABILIZATION MIX	20-25
MMF STORMWATER POND MIX	20-25
MMF WETLAND MIX	20-25
MMF WETLAND SHADE MIX	20-25

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CONSTRUCTION PLANS
TRI POINTE HOMES
SERENITY AMENITY
STREAMSIDE TERRACE | HARNETT COUNTY, NORTH CAROLINA

NORTH CAROLINA PROFESSIONAL SEAL 046230 ENGINEER DAVID L. STARKEL

Signed by: David Starkel 5/27/2025

INITIAL PLAN DATE: 05/23/2025
REVISIONS:
-
-
-

WR JOB NUMBER 23-1177
DRN: WR DGN: WR CKD: WR

EROSION CONTROL NOTES & DETAILS

C6.02

CONSTRUCTION SEQUENCE:

FOLLOW THE CONSTRUCTION SEQUENCE THROUGHOUT THE PROJECT DEVELOPMENT. WHEN CHANGES IN CONSTRUCTION ACTIVITIES ARE NEEDED, AMEND THE SEQUENCE SCHEDULE IN ADVANCE TO MAINTAIN MANAGEMENT CONTROL.

ORDERLY MODIFICATION ASSURES COORDINATION OF CONSTRUCTION AND EROSION CONTROL PRACTICES TO MINIMIZE EROSION AND SEDIMENTATION PROBLEMS. WHEN MAJOR CHANGES ARE NECESSARY, SEND A COPY OF THE MODIFIED SCHEDULE TO THE LOCAL SEDIMENT CONTROL AGENCY.

LAND GRADING:

PERIODICALLY, CHECK ALL GRADED AREAS AND THE SUPPORTING EROSION AND SEDIMENTATION CONTROL PRACTICES, ESPECIALLY AFTER HEAVY RAINFALLS. PROMPTLY REMOVE ALL SEDIMENT FROM DIVERSIONS AND OTHER WATER-DISPOSAL PRACTICES. IF WASHOUTS OR BREAKS OCCUR, REPAIR THEM IMMEDIATELY. PROMPT MAINTENANCE OF SMALL ERODED AREAS BEFORE THEY BECOME SIGNIFICANT GULLIES IS AN ESSENTIAL PART OF AN EFFECTIVE EROSION AND SEDIMENTATION CONTROL PLAN.

SURFACE ROUGHENING:

PERIODICALLY CHECK THE SEEDED SLOPES FOR RILLS AND WASHES. FILL THESE AREAS SLIGHTLY ABOVE THE ORIGINAL GRADE, THEN RESEED AND MULCH AS SOON AS POSSIBLE.

TOPSOILING:

NO MAINTENANCE MEASURES SPECIFIED IN NCDEQ MANUAL. IF NEEDED, COORDINATE W/ PM OR AUTHORITIES HAVING JURISDICTION.

TREE PROTECTION:

TAKE THESE STEPS AFTER ALL MATERIALS AND EQUIPMENT HAVE BEEN REMOVED FOR THE SITE:

- REMOVE TREE PROTECTION ZONE FENCES.
- PRUNE ANY DAMAGED TREES. IN SPITE OF PRECAUTIONS, SOME DAMAGE TO PROTECTED TREES MAY OCCUR. IN SUCH CASES, REPAIR ANY DAMAGE TO THE CROWN, TRUNK, OR ROOT SYSTEM IMMEDIATELY.
  - REPAIR ROOTS BY CUTTING OFF THE DAMAGED AREAS AND PAINTING THEM WITH TREE PAINT. SPREAD PEAT MOSS OR MOIST TOPSOIL OVER EXPOSED ROOTS.
  - REPAIR DAMAGE TO BARK BY TRIMMING AROUND THE DAMAGED AREA AS SHOWN IN FIGURE 6.05D OF THE NCDEQ MANUAL TO AVOID PEELING BARK FROM HEALTHY AREAS OF THE TREE.
- CONTINUE MAINTENANCE CARE. PAY SPECIAL ATTENTION TO ANY STRESSED, DISEASED, OR INSECT-INFESTED TREES. REDUCE TREE STRESS CAUSED BY UNINTENDED CONSTRUCTION DAMAGE BY OPTIMIZING PLANT CARE WITH WATER, MULCH, AND FERTILIZER WHERE APPROPRIATE. CONSULT YOUR TREE EXPERT IF NEEDED.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE/EXIT:

MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2-INCH STONE. AFTER EACH RAINFALL, INSPECT ANY STRUCTURE USED TO TRAP SEDIMENT AND CLEAN IT OUT AS NECESSARY. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED, OR TRACKED ONTO PUBLIC ROADWAYS.

TEMPORARY SEEDING:

RESEED AND MULCH AREAS WHERE SEEDLING EMERGENCE IS POOR, OR WHERE EROSION OCCURS, AS SOON AS POSSIBLE. DO NOT MOW. PROTECT FROM TRAFFIC AS MUCH AS POSSIBLE.

SODDING:

AFTER THE FIRST WEEK, WATER AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE IN THE ROOT ZONE AND PREVENT DORMANCY OF THE SOD.

DO NOT REMOVE MORE THAN ONE-THIRD OF THE SHOOT IN ANY MOWING. GRASS HEIGHT SHOULD BE MAINTAINED BETWEEN 2 AND 3 INCHES UNLESS OTHERWISE SPECIFIED.

AFTER THE FIRST GROWING SEASON, ESTABLISHED SOD REQUIRES FERTILIZATION, AND MAY ALSO REQUIRE LIME. FOLLOW SOIL TEST RECOMMENDATIONS WHEN POSSIBLE OR USE THE RATES IN TABLE 6.12B OF THE NCDEQ MANUAL.

MULCHING:

INSPECT ALL MULCHES PERIODICALLY, AND AFTER RAINSTORMS TO CHECK FOR RILL EROSION, DISLOCATION OR FAILURE. WHERE EROSION IS OBSERVED, APPLY ADDITIONAL MULCH. IF WASHOUT OCCURS, REPAIR THE SLOPE GRADE, RESEED AND REINSTALL MULCH. CONTINUE INSPECTIONS UNTIL VEGETATION IS FIRMLY ESTABLISHED.

RIPRAP:

IN GENERAL, ONCE RIPRAP INSTALLATION HAS BEEN PROPERLY DESIGNED AND INSTALLED IT REQUIRES VERY LITTLE MAINTENANCE. RIPRAP SHOULD BE INSPECTED PERIODICALLY FOR SCOUR OR DISLODGED STONES. CONTROL OF WEED AND BRUSH GROWTH MAY BE NEEDED IN SOME LOCATIONS.

ROLLED EROSION CONTROL PRODUCTS:

INSPECT ROLLED EROSION CONTROL PRODUCTS (RECP) AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY.

GOOD CONTACT WITH THE GROUND MUST BE MAINTAINED, AND EROSION MUST NOT OCCUR BENEATH THE RECP.

ANY AREAS OF THE RECP THAT ARE DAMAGED OR NOT IN CLOSE CONTACT WITH THE GROUND SHALL BE REPAIRED AND STAPLED.

IF EROSION OCCURS DUE TO POORLY CONTROLLED DRAINAGE, THE PROBLEM SHALL BE FIXED, AND THE ERODED AREA PROTECTED.

MONITOR AND REPAIR THE RECP AS NECESSARY UNTIL GROUND COVER IS ESTABLISHED.

COMPOST BLANKETS:

INSPECT COMPOST BLANKETS WEEKLY AND WITHIN 24 HOURS OF A RAINFALL EVENT OF ½ INCH OR GREATER. IF FAILURE OR DAMAGE TO THE BLANKET OCCURS OR IF VEGETATION DOES NOT ESTABLISH WITHIN THE EXPECTED GERMINATION TIME OF THE SELECTED SEED TYPE, REAPPLY COMPOST AND SEED TO THE AFFECTED AREA TO RETURN IT TO THE ORIGINAL CONDITION. TAKE ADDITIONAL MEASURES AS NECESSARY TO ESTABLISH PERMANENT GROUND COVER. COMPOST BLANKETS SHALL BE INSPECTED UNTIL PERMANENT VEGETATION IS ESTABLISHED. ROLLED EROSION CONTROL PRODUCTS (RECP) PLACED OVER THE COMPOST BLANKET SHOULD BE REPAIRED IF IT HAS BEEN MOVED OR DAMAGED BY WIND OR STORM RUNOFF AND/OR IF PART OF OR THE WHOLE BLANKET IS NOT IN CONTACT WITH THE SOIL SURFACE.

TEMPORARY DIVERSIONS:

INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.

PERMANENT DIVERSIONS:

INSPECT PERMANENT DIVERSIONS AFTER EVERY RAINFALL DURING THE CONSTRUCTION OPERATION. IMMEDIATELY REMOVE ANY OBSTRUCTIONS FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE. CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED. MAINTAIN THE VEGETATION IN A VIGOROUS, HEALTHY CONDITIONS AT TALL TIMES.

DIVERSION DIKE:

INSPECT DIVERSION DIKES ONCE A WEEK AND AFTER EVERY RAINFALL EVENT. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIKE.

CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED TO AVOID GULLY FORMATION. WHEN THE AREA ABOVE THE TEMPORARY DIVERSION DIKE IS PERMANENTLY STABILIZED, REMOVE THE DIKE, AND FILL AND STABILIZE THE CHANNEL TO BLEND WITH THE NATURAL SURFACE.

RIGHT-OF-WAY DIVERSIONS:

PERIODICALLY INSPECT RIGHT-OF-WAY DIVERSIONS FOR WEAR AND AFTER EVERY HEAVY RAINFALL FOR EROSION DAMAGE. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIKE. CHECK OUTLET AREAS, AND MAKE TIMELY REPAIRS AS NEEDED. WHEN PERMANENT ROAD DRAINAGE IS ESTABLISHED AND THE AREA ABOVE THE TEMPORARY RIGHT-OF-WAY DIVERSIONS IS PERMANENTLY STABILIZED, REMOVE THE DIKE, AND FILL THE CHANNEL TO BLEND WITH THE NATURAL GROUND, AND APPROPRIATELY STABILIZED THE DISTURBED AREA.

GRASS-LINED CHANNELS:

DURING THE ESTABLISHMENT PERIOD, CHECK GRASS-LINED CHANNELS AFTER EVERY RAINFALL. AFTER GRASS IS ESTABLISHED, PERIODICALLY CHECK THE CHANNEL; CHECK IT AFTER EVERY RAINFALL EVENT. IMMEDIATELY MAKE REPAIRS. IT IS PARTICULARLY IMPORTANT TO CHECK THE CHANNEL OUTLET AND ALL ROAD CROSSINGS FOR BANK STABILITY AND EVIDENCE OF PIPING OR SCOUR HOLES. REMOVE ALL SIGNIFICANT SEDIMENT ACCUMULATIONS TO MAINTAIN THE DESIGNED CARRYING CAPACITY. KEEP THE GRASS IN A HEALTHY, VIGOROUS CONDITION AT ALL TIMES, SINCE IT IS THE PRIMARY EROSION PROTECTION FOR THE CHANNEL.

RIPRAP AND PAVED CHANNELS:

INSPECT CHANNELS AT REGULAR INTERVALS AS WELL AS AFTER MAJOR RAINS, AND MAKE REPAIRS PROMPTLY. GIVE SPECIAL ATTENTION TO THE OUTLET AND INLET SECTIONS AND OTHER POINTS WHERE CONCENTRATED FLOW ENTERS. CAREFULLY CHECK STABILITY AT ROAD CROSSINGS, AND LOOK FOR INDICATION OF PIPING, SCOUR HOLES, OR BANK FAILURES. MAKE REPAIRS IMMEDIATELY. MAINTAIN ALL VEGETATION ADJACENT TO THE CHANNEL IN A HEALTHY, VIGOROUS CONDITION TO PROTECT THE AREA FROM EROSION AND SCOUR DURING OUT-OF-BANK FLOW.

TEMPORARY SLOPE DRAINS:

INSPECT THE SLOPE DRAIN AND SUPPORTING DIVERSION AFTER EVERY RAINFALL AND PROMPTLY MAKE NECESSARY REPAIRS. WHEN THE PROTECTED AREA HAS BEEN PERMANENTLY STABILIZED, TEMPORARY MEASURES MAY BE REMOVED, MATERIALS DISPOSED OF PROPERLY, AND ALL DISTURBED AREAS STABILIZED APPROPRIATELY.

PAVED FLUME:

INSPECT FLUMES AFTER EACH RAINFALL UNTIL ALL AREAS ADJOINING THE FLUME ARE PERMANENTLY STABILIZED. REPAIR ALL DAMAGE NOTED IN INSPECTIONS IMMEDIATELY. AFTER THE SLOPES ARE STABILIZED, FLUMES NEED ONLY PERIODIC INSPECTION, AND INSPECTION AFTER MAJOR STORM EVENTS.

LEVEL SPREADER:

INSPECT LEVEL SPREADERS AFTER EVERY RAINFALL UNTIL VEGETATION IS ESTABLISHED AND PROMPTLY MAKE NEEDED REPAIRS. AFTER THE AREA HAS BEEN STABILIZED, MAKE PERIODIC INSPECTIONS, AND KEEP VEGETATION IN A HEALTHY, VIGOROUS CONDITION.

OUTLET STABILIZATION STRUCTURE:

INSPECT RIPRAP OUTLET STRUCTURES WEEKLY AND AFTER SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENTS TO SEE IF ANY EROSION AROUND OR BELOW THE RIPRAP HAS TAKEN PLACE, OR IF STONES HAVE BEEN DISLODGED. IMMEDIATELY MAKE ALL NEEDED REPAIRS TO PREVENT FURTHER DAMAGE.

EXCAVATED DROP INLET PROTECTION:

INSPECT, CLEAN AND PROPERLY MAINTAIN THE EXCAVATED BASIN AFTER EVERY STORM UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN PERMANENTLY STABILIZED. TO PROVIDE SATISFACTORY BASIN EFFICIENCY, REMOVE SEDIMENT WHEN THE VOLUME OF THE BASIN HAS BEEN REDUCED BY ONE-HALF. SPREAD ALL EXCAVATED MATERIAL EVENLY OVER THE SURROUNDING LAND AREA OR STOCKPILE AND STABILIZE IT APPROPRIATELY.

HARDWARE CLOTH AND GRAVEL INLET PROTECTION:

INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL. REPLACE STONE AS NEEDED.

BLOCK AND GRAVEL INLET PROTECTION:

INSPECT THE BARRIER AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL AND MAKE REPAIRS AS NEEDED.

REMOVE SEDIMENT AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR SUBSEQUENT RAINS.

WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND ANY UNSTABLE SOIL, AND EITHER SALVAGE OR DISPOSE OF IT PROPERLY. BRING THE DISTURBED AREA TO PROPER GRADE, THEN SMOOTH AND COMPACT IT. APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET.

SOD DROP INLET PROTECTION:

DURING THE FIRST FOUR WEEKS, WATER SOD AS OFTEN AS NECESSARY TO MAINTAIN MOIST SOIL TO A MINIMUM DEPTH OF 2 INCHES.

MAINTAIN GRASS HEIGHT AT LEAST 2 INCHES WITH NO MORE THAN ONE-THIRD THE SHOOT HEIGHT (GRASS LEAF) REMOVED IN ANY MOWING.

APPLY FERTILIZER AS NECESSARY TO MAINTAIN THE DESIRED GROWTH AND SOD DENSITY. ADD LIME AS NEEDED TO MAINTAIN THE PROPER PH.

ROCK DOUGHNUT INLET PROTECTION:

INSPECT ROCK DOUGHNUT INLET PROTECTION AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY.

TO PROVIDE SATISFACTORY INLET PROTECTION EFFICIENCY, REMOVE SEDIMENT FROM THE SEDIMENT POOL AREA WHEN THE VOLUME IS DECREASED BY HALF. THIS WILL HELP PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN. STABILIZE EXCAVATED MATERIAL APPROPRIATELY.

TAKE CARE NOT TO DAMAGE OR UNDERCUT THE STRUCTURE DURING SEDIMENT REMOVAL. REMOVE DEBRIS FROM THE INLET AND REPLACE STONE AS NEEDED. IF THE INLET WAS COVERED WITH WIRE MESH, THE MESH SHOULD BE CLEANED OF DEBRIS.

WHEN THE CONTRIBUTING DRAINAGE AREA HAS BEEN ADEQUATELY STABILIZED, REMOVE ALL MATERIALS AND DISPOSE OF SEDIMENT PROPERLY. BRING THE DISTURBED AREA TO THE GRADE OF THE DROP INLET. SMOOTH AND COMPACT AS NEEDED.

APPROPRIATELY STABILIZE ALL BARE AREAS AROUND THE INLET WITH GROUND COVER.

ROCK PIPE INLET PROTECTION:

INSPECT ROCK PIPE INLET PROTECTION AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE SEDIMENT STORAGE AREA TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN THE DESIGNATED DISPOSAL AREA AND REPLACE THE CONTAMINATED PART OF THE GRAVEL FACING.

CHECK THE STRUCTURE FOR DAMAGE. ANY RIPRAP DISPLACED FROM THE STONE HORSESHOE MUST BE REPLACED IMMEDIATELY.

AFTER ALL THE SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND PROVIDE PERMANENT GROUND COVER.

TEMPORARY SEDIMENT TRAP:

INSPECT TEMPORARY SEDIMENT TRAPS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE TRAP TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF OF THE DESIGN DEPTH OF THE TRAP. PLACE THE SEDIMENT THAT IS REMOVED IN THE DESIGNATED DISPOSAL AREA AND REPLACE THE PART OF THE GRAVEL FACING THAT IS IMPAIRED BY SEDIMENT.

CHECK THE STRUCTURE FOR DAMAGE FROM EROSION OR PIPING. PERIODICALLY CHECK THE DEPTH OF THE SPILLWAY TO ENSURE IT IS A MINIMUM OF 1.5 FEET BELOW THE LOW POINT OF THE EMBANKMENT. IMMEDIATELY FILL ANY SETTLEMENT OF THE EMBANKMENT TO SLIGHTLY ABOVE DESIGN GRADE. **ANY RIPRAP DISPLACED FROM THE SPILLWAY MUST BE REPLACED IMMEDIATELY.**

AFTER ALL SEDIMENT-PRODUCING AREAS HAVE BEEN PERMANENTLY STABILIZED, REMOVE THE STRUCTURE AND ALL UNSTABLE SEDIMENT. SMOOTH THE AREA TO BLEND WITH THE ADJOINING AREAS AND STABILIZE PROPERLY.

SEDIMENT BASIN:

INSPECT TEMPORARY SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN IT ACCUMULATES TO ONE-HALF THE DESIGN DEPTH. PLACE REMOVED SEDIMENT IN AN AREA WITH SEDIMENT CONTROLS.

CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE RISER AND POOL AREA.

SEDIMENT FENCE:

INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.

SHOULD THE FABRIC OF THE SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.

REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SEDIMENT BASIN WITH ROCK DAM:

CHECK SEDIMENT BASINS AFTER EACH RAINFALL. REMOVE SEDIMENT AND RESTORE ORIGINAL VOLUME WHEN SEDIMENT ACCUMULATES TO ABOUT ONE-HALF THE DESIGN VOLUME. SEDIMENT SHOULD BE PLACED ABOVE THE BASIN AND ADEQUATELY STABILIZED.

CHECK THE STRUCTURE FOR EROSION, PIPING, AND ROCK DISPLACEMENT WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINSTORM AND REPAIR IMMEDIATELY.

REMOVE THE STRUCTURE AND ANY UNSTABLE SEDIMENT IMMEDIATELY AFTER THE CONSTRUCTION SITE HAS BEEN PERMANENTLY STABILIZED. SMOOTH THE BASIN SITE TO BLEND WITH THE SURROUNDING AREA AND STABILIZE. ALL WATER AND SEDIMENT SHOULD BE REMOVED FROM THE BASIN PRIOR TO DAM REMOVAL. SEDIMENT SHOULD BE PLACED IN DESIGNATED DISPOSAL AREAS AND NOT ALLOWED TO FLOW INTO STREAMS OR DRAINAGE WAYS DURING STRUCTURE REMOVAL.

SKIMMER SEDIMENT BASIN:

INSPECT SKIMMER SEDIMENT BASINS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (ONE-HALF INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. REMOVE SEDIMENT AND RESTORE THE BASIN TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT ACCUMULATES TO ONE-HALF THE HEIGHT OF THE FIRST BAFFLE. PULL THE SKIMMER TO ONE SIDE SO THAT THE SEDIMENT UNDERNEATH IT CAN BE EXCAVATED. EXCAVATE THE SEDIMENT FROM THE ENTIRE BASIN, NOT JUST AROUND THE SKIMMER OR THE FIRST CELL. MAKE SURE VEGETATION GROWING IN THE BOTTOM OF THE BASIN DOES NOT HOLD DOWN THE SKIMMER.

REPAIR THE BAFFLES IF THEY ARE DAMAGED. RE-ANCHOR THE BAFFLES IF WATER IS FLOWING UNDERNEATH OR AROUND THEM.

IF THE SKIMMER IS CLOGGED WITH TRASH AND THERE IS WATER IN THE BASIN, USUALLY JERKING ON THE ROPE WILL MAKE THE SKIMMER BOB UP AND DOWN AND DISLODGE THE DEBRIS AND RESTORE FLOW. IF THIS DOES NOT WORK, PULL THE SKIMMER OVER TO THE SIDE OF THE BASIN AND REMOVE THE DEBRIS. ALSO CHECK THE ORIFICE INSIDE THE SKIMMER TO SEE IF IT IS CLOGGED, IF SO REMOVE THE DEBRIS.

IF THE SKIMMER ARM OR BARREL PIPE IS CLOGGED, THE ORIFICE CAN BE REMOVED, AND THE OBSTRUCTION CLEARED WITH A PLUMBER'S SNAKE OR BY FLUSHING WITH WATER. BE SURE AND REPLACE THE ORIFICE BEFORE REPOSITIONING THE SKIMMER.

CHECK THE FABRIC LINED SPILLWAY FOR DAMAGE AND MAKE ANY REQUIRED REPAIRS WITH THE FABRIC THAT SPANS THE FULL WIDTH OF THE SPILLWAY. CHECK THE EMBANKMENT, SPILLWAYS, AND OUTLET FOR EROSION DAMAGE, AND INSPECT THE EMBANKMENT FOR PIPING AND SETTLEMENT. MAKE ALL NECESSARY REPAIRS IMMEDIATELY. REMOVE ALL TRASH AND OTHER DEBRIS FROM THE SKIMMER AND POOL AREAS.

FREEZING WEATHER CAN RESULT IN ICE FORMING IN THE BASIN. SOME SPECIAL PRECAUTIONS SHOULD BE TAKEN IN THE WINTER TO PREVENT THE SKIMMER FROM PLUGGING WITH ICE.

POROUS BAFFLES:

INSPECT BAFFLES AT LEAST ONCE A WEEK AND AFTER EACH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.

BE SURE TO MAINTAIN ACCESS TO THE BAFFLES. SHOULD THE FABRIC OF A BAFFLE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.

REMOVE SEDIMENT DEPOSIT WHEN IT REACHES HALF FULL, TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND TO REDUCE PRESSURE ON THE BAFFLES. TAKE CARE TO AVOID DAMAGING THE BAFFLES DURING CLEANOUT AND REPLACE IF DAMAGED DURING CLEANOUT OPERATIONS. SEDIMENT DEPTH SHOULD NEVER EXCEED HALF THE DESIGNED STORAGE DEPTH.

AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED, REMOVE ALL BAFFLE MATERIALS AND UNSTABLE SEDIMENT DEPOSITS, BRING THE AREA TO GRADE, AND STABILIZE IT.

COMPOST SOCK:

INSPECT COMPOST SOCKS WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL EVENT (1/2 INCH OR GREATER). REMOVE ACCUMULATED SEDIMENT AND ANY DEBRIS. THE COMPOST SOCK MUST BE REPLACED IF CLOGGED OR TORN. IF PONDING BECOMES EXCESSIVE, THE SOCK MAY NEED TO BE REPLACED WITH A LARGER DIAMETER OR A DIFFERENT MEASURE. THE SOCK NEEDS TO BE REINSTALLED IF UNDERMINED OR DISLODGED. THE COMPOST SOCK SHALL BE INSPECTED UNTIL LAND DISTURBANCE IS COMPLETE AND THE AREA ABOVE THE MEASURE HAS BEEN PERMANENTLY STABILIZED.

EROSION CONTROL MAINTENANCE MEASURES (FROM CHAPTER 9)

CONSTRUCTION ROAD STABILIZATION:

INSPECT CONSTRUCTION ROADS AND PARKING AREAS PERIODICALLY FOR CONDITION OF SURFACE. TOP-DRESS WITH NEW GRAVEL AS NEEDED. CHECK ROAD DITCHES AND OTHER SEEDED AREAS FOR EROSION AND SEDIMENTATION AFTER RUNOFF-PRODUCING RAINS. MAINTAIN ALL VEGETATION IN A HEALTHY, VIGOROUS CONDITION. SEDIMENT-PRODUCING AREAS SHOULD BE TREATED IMMEDIATELY.

SUBSURFACE DRAIN:

A PROPERLY DESIGNED AND INSTALLED SUBSURFACE DRAIN REQUIRES LITTLE MAINTENANCE. HOWEVER, CHECK DRAINS PERIODICALLY AND ESPECIALLY AFTER HEAVY RAINS TO SEE THAT THEY ARE OPERATING PROPERLY. KEEP THE OUTLETS FREE OF SEDIMENT AND OTHER DEBRIS, AND KEEP THE ANIMAL GUARD IN PLACE AND FUNCTIONAL. INVESTIGATE ANY WET AREAS ALONG THE LINE FOR POSSIBLE CAVE-IN DUE TO VEHICLE TRAFFIC, BLOCKAGE BY ROOTS, OR OTHER PROBLEMS. MAKE ALL NEEDED REPAIRS PROMPTLY.

GRADE STABILIZATION STRUCTURE:

ONCE A GRADE STABILIZATION STRUCTURE HAS BEEN PROPERLY INSTALLED AND THE AREA AROUND IT STABILIZED, MAINTENANCE SHOULD BE MINIMAL. INSPECT THE STRUCTURE PERIODICALLY AND AFTER MAJOR STORMS THROUGHOUT THE LIFE OF THE STRUCTURE. CHECK THE FILL AROUND THE STRUCTURE FOR PIPING, EROSION, AND SETTLEMENT AND TO ENSURE THAT GOOD PROTECTIVE VEGETATION IS MAINTAINED. CHECK THE CHANNEL AT THE STRUCTURE ENTRANCE AND OUTLET FOR SCOUR AND DEBRIS ACCUMULATION THAT MAY CAUSE BLOCKAGE OR TURBULENCE. CHECK THE STRUCTURE ITSELF FOR CRACKING OR SPALLING OF THE CONCRETE, UNEVEN OR EXCESSIVE SETTLEMENT, PIPING, AND PROPER DRAIN FUNCTIONING. CHECK EMERGENCY BYPASS AREAS AROUND THE STRUCTURE FOR EROSION, ESPECIALLY WHERE FLOW RE-ENTERS THE CHANNEL. REPAIR OR REPLACE FAILING STRUCTURES IMMEDIATELY.

CHECK DAM:

INSPECT CHECK DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED.

ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE THE CHECK DAM AND EROSION FROM HIGH FLOWS AROUND THE EDGES OF THE DAM. CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, ADDITIONAL MEASURES CAN BE TAKEN SUCH AS, INSTALLING A PROTECTIVE RIPRAP LINER IN THAT PORTION OF THE CHANNEL.

REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

DUST CONTROL:

MAINTAIN DUST CONTROL MEASURES THROUGH DRY WEATHER PERIODS UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED.

SAND FENCE (WIND FENCE):

MAINTAIN SAND FENCES, AND ERECT ADDITIONAL FENCES AS NEEDED UNTIL THE ERODING AREA HAS BEEN PERMANENTLY STABILIZED, OR IN THE CASE OF DUNE BUILDING, UNTIL THE DUNE HAS REACHED THE DESIRED HEIGHT AND IS PROPERLY VEGETATED.

FLOCCULANTS:

DOSING SYSTEMS USING PUMPS SHOULD BE CHECKED DAILY.

FLOC LOGS SHOULD BE CHECKED AT LEAST WEEKLY OR AFTER A RAINFALL EVENT OF ½ INCH OR GREATER TO MAKE SURE THE LOGS REMAIN IN PLACE, ARE MOIST, AND ARE NOT COVERED IN SEDIMENT.

CHECK DAM WITH A WEIR:

INSPECT CHECK DAMS AND CHANNELS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT AND REPAIR IMMEDIATELY. CLEAN OUT SEDIMENT, STRAW, LIMBS, OR OTHER DEBRIS THAT COULD CLOG THE CHANNEL WHEN NEEDED.

ANTICIPATE SUBMERGENCE AND DEPOSITION ABOVE THE CHECK DAM AND EROSION FROM HIGH FLOWS AROUND THE EDGES OF THE DAMS. CORRECT ALL DAMAGE IMMEDIATELY. IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, ADDITIONAL MEASURES CAN BE TAKEN SUCH AS, INSTALLING A PROTECTIVE RIPRAP LINER IN THAT PORTION OF THE CHANNEL.

REMOVE SEDIMENT ACCUMULATED BEHIND THE DAMS AS NEEDED TO PREVENT DAMAGE TO CHANNEL VEGETATION, ALLOW THE CHANNEL TO DRAIN THROUGH THE STONE CHECK DAM, AND PREVENT LARGE FLOWS FROM CARRYING SEDIMENT OVER THE DAM. ADD STONES TO DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.

EROSION CONTROL SEQUENCE:

1. INSTALL PERIMETER MEASURES INCLUDING SILT FENCE & SILT FENCE OUTLETS.
2. INSTALL CONSTRUCTION ENTRANCE AND CONCRETE WASHOUT.
3. CLEAR ONLY AS NECESSARY TO INSTALL THESE DEVICES.
4. ONCE ALL MEASURES ARE INSTALLED AND APPROVED, CONTRACTOR MAY BEGIN CLEARING AND GRUBBING OF SITE & ROUGH GRADING.
5. STABILIZATION IS REQUIRED WITHIN 7 DAYS OF ANY ACTIVITY.
6. COMPLETE UTILITY AND ROUGH GRADING.
7. INSTALL INLET PROTECTION TO ALL STORM STRUCTURES AND ENSURE ALL DRAINAGE IS REACHING INTENDED BASINS.
8. ONCE THE STORM DRAINAGE & UTILITY INSTALLATION IS COMPLETE, THE STONE BASE COURSE SHALL BE INSTALLED. MAINTAIN INLET PROTECTION AT EACH INLET.
9. ONCE THE BASE COURSE IS INSTALLED, CONTRACTOR MAY INSTALL ALL BINDER ASPHALT.
10. ONCE THE STORM DRAINAGE SYSTEM IS COMPLETE, COMPLETE GRADING AND ENSURE THE AREA IS FULLY STABILIZED.
11. REMOVE SILT FENCE ONCE SITE IS FULLY STABILIZED.

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CONSTRUCTION PLANS
TRI POINTE HOMES SERENITY AMENITY
STREAMSIDE TERRACE | HARNETT COUNTY, NORTH CAROLINA

SEAL 046230
DAVID L. STARKEL

Signed by:
David Starkel
438D5C988B8F438...
5/27/2025

INITIAL PLAN DATE: 05/23/2025
REVISIONS:
-
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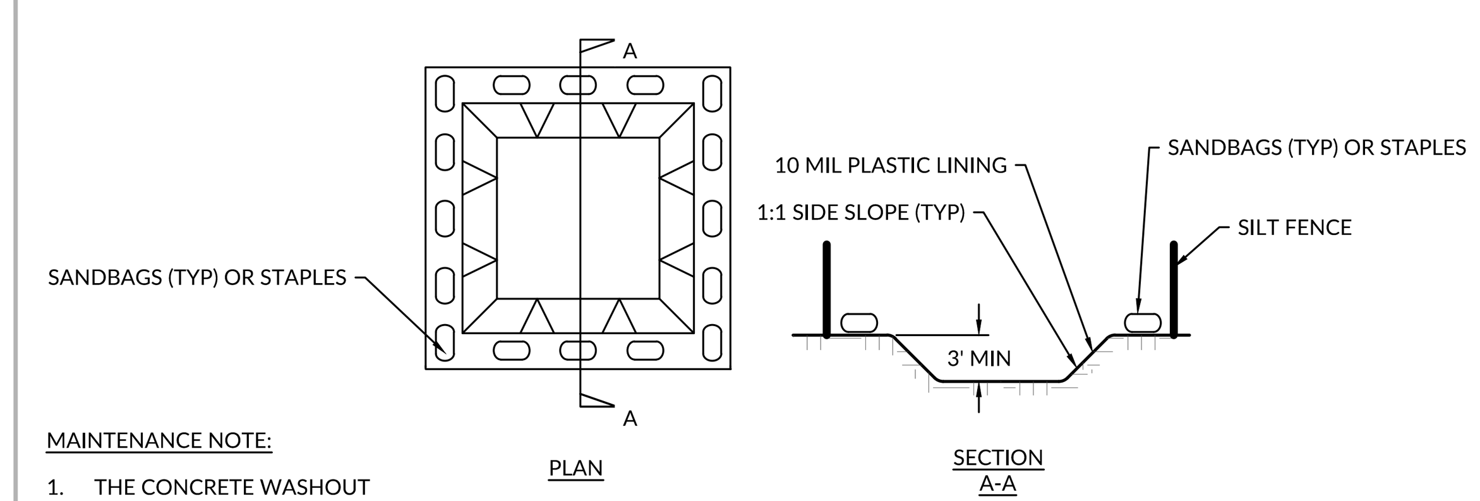
WR JOB NUMBER 23-1177
DRN: WR DGN: WR CKD: WR

EROSION CONTROL NOTES & DETAILS

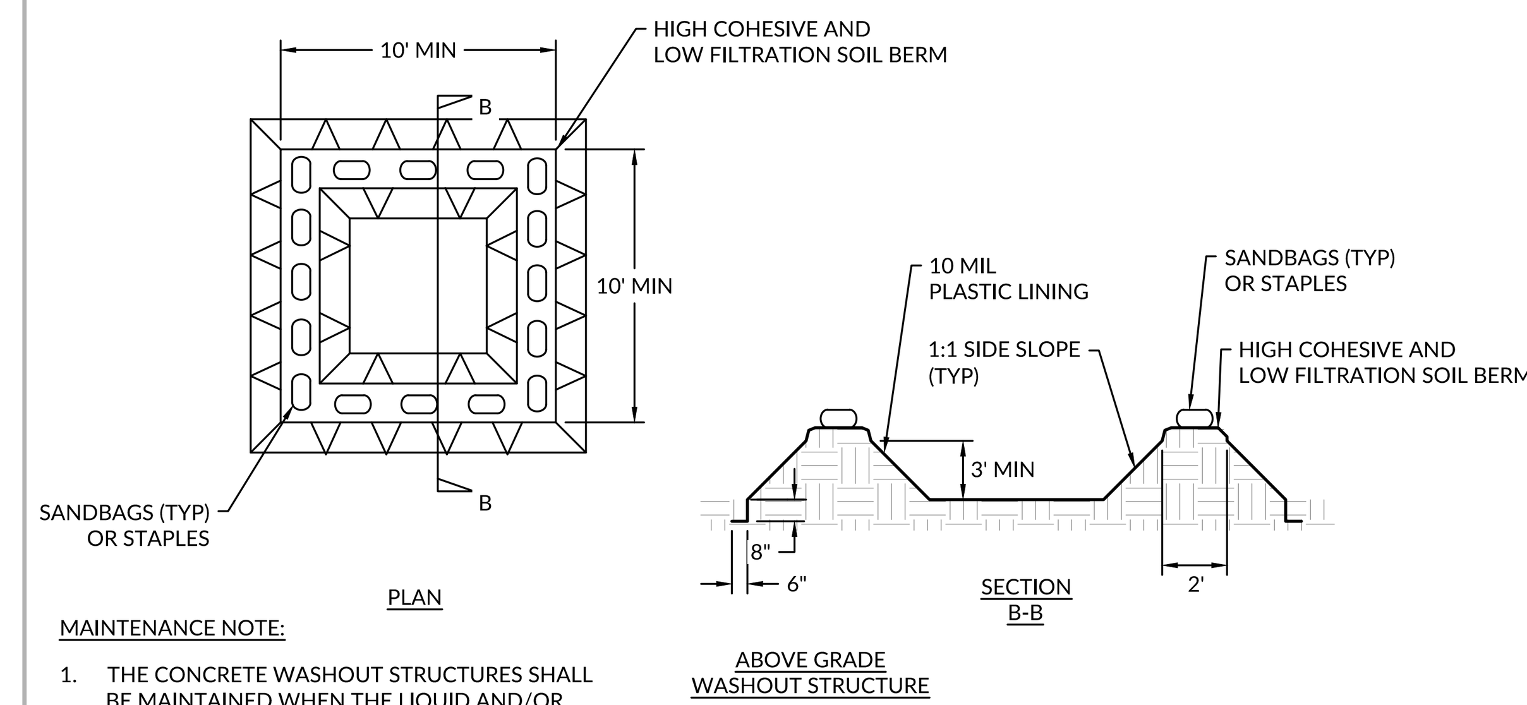
C6.03

EST. 1983



MAINTENANCE NOTE:

1. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY.

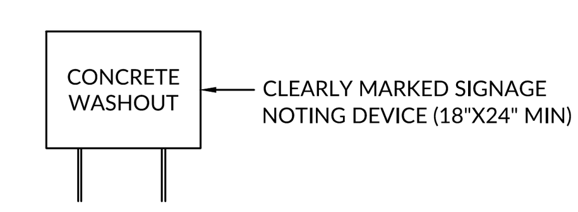


MAINTENANCE NOTE:

1. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.

NOTES:

1. ACTUAL LOCATION DETERMINED IN FIELD
2. CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE.



ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER — EROSION CONTROL

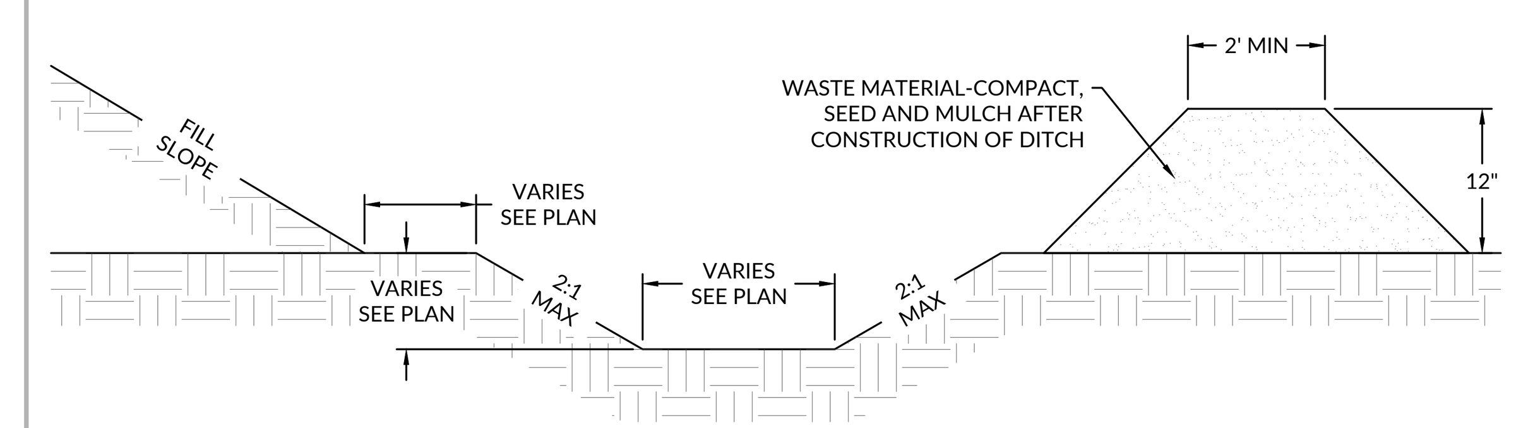
Scale:NTS — C4001

NOTES:

1. TEMPORARY DIVERSION DITCH TO BE USED TO INTERCEPT FLOW AND/OR DIVERT TO A SEDIMENT CONTROL MEASURE OR BMP.
2. SILT SHALL BE REMOVED WHEN DITCH IS ONE-HALF FULL.
3. DITCH SHALL BE RECONSTRUCTED WHEN DAMAGED BY EQUIPMENT OR COVERED BY FILL.
4. STABILIZE TEMPORARY DIVERSION WITH SEEDING, AND EROSION CONTROL MATTING.

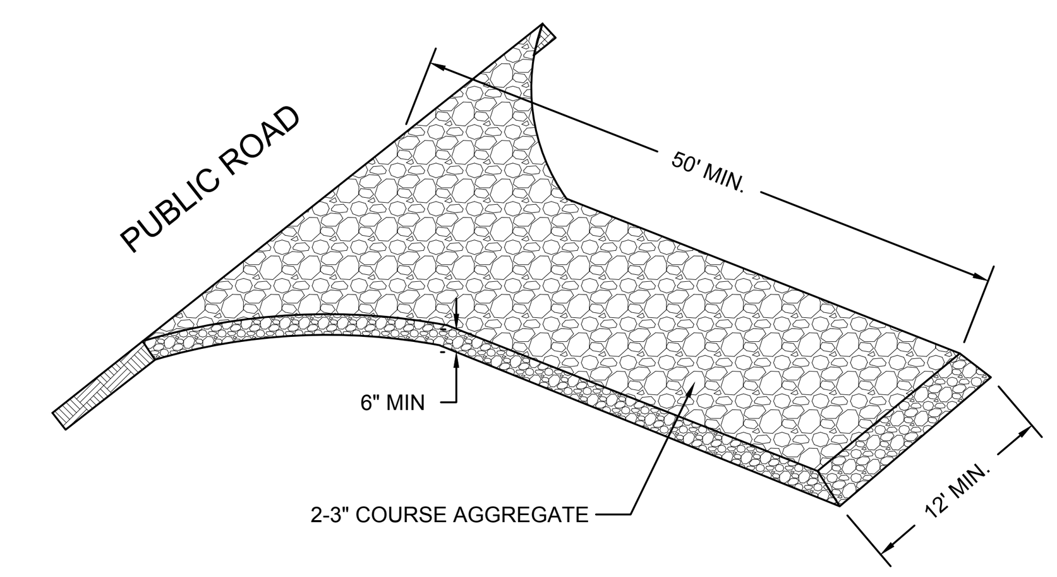
MAINTENANCE NOTES:

1. INSPECT TEMPORARY DIVERSIONS ONCE A WEEK AND AFTER EVERY RAINFALL.
2. IMMEDIATELY REMOVE SEDIMENT FROM THE FLOW AREA AND REPAIR THE DIVERSION RIDGE.
3. CAREFULLY CHECK OUTLETS AND MAKE TIMELY REPAIRS AS NEEDED.
4. WHEN THE AREA PROTECTED IS PERMANENTLY STABILIZED, REMOVE THE RIDGE AND THE CHANNEL TO BLEND WITH THE NATURAL GROUND LEVEL AND APPROPRIATELY STABILIZE IT.



TEMPORARY DIVERSION — EROSION CONTROL

Scale:NTS — C4021

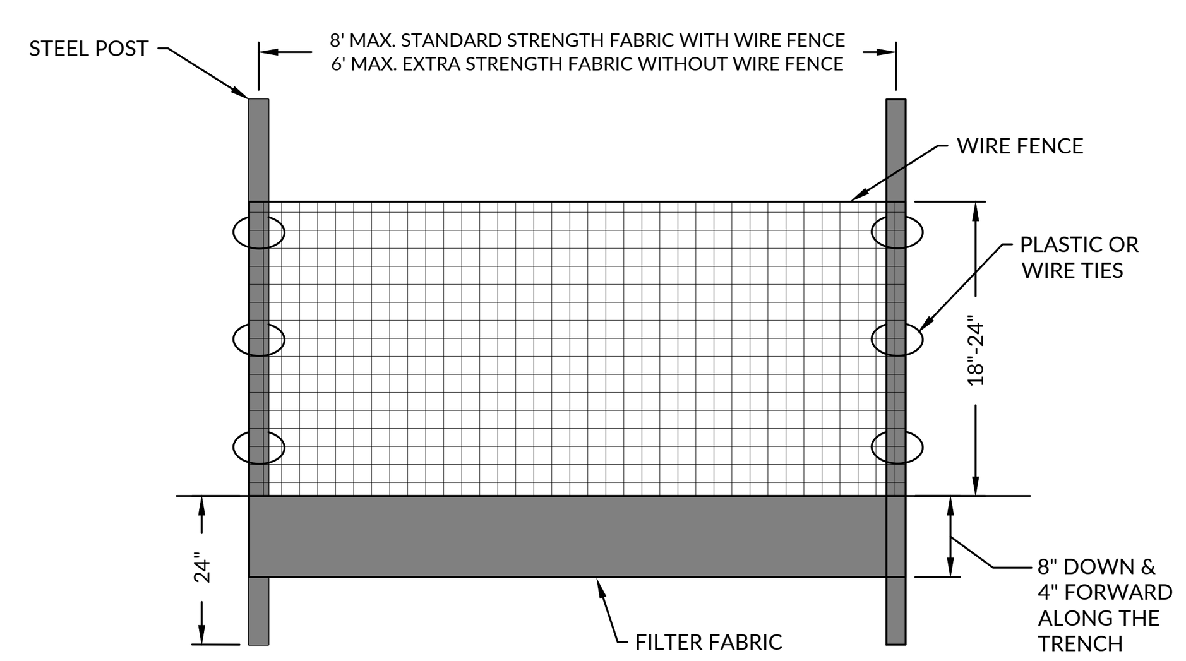


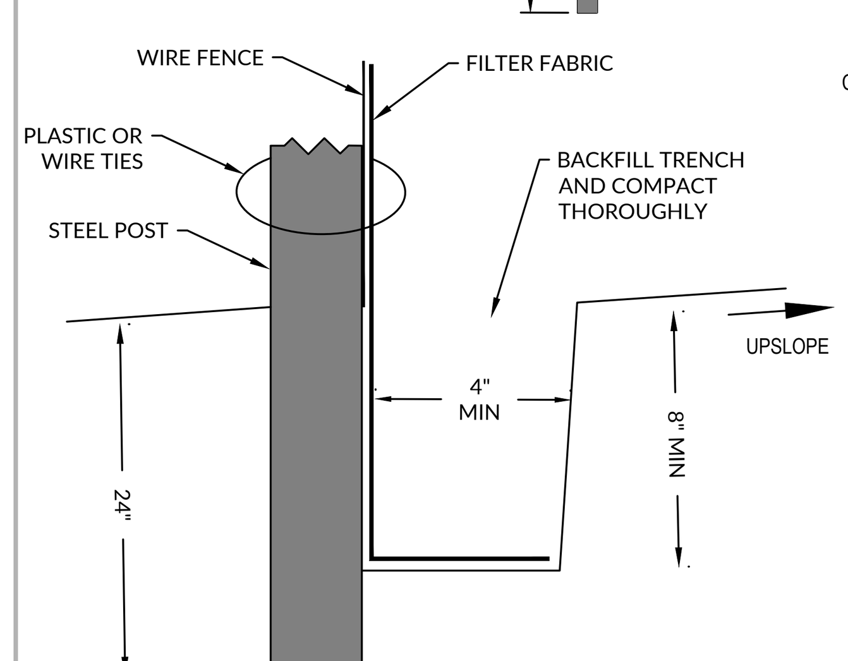
CONSTRUCTION:
1. CLEAR THE ENTRANCE AND EXIT AREA OF ALL VEGETATION, ROOTS, AND OTHER OBJECTIONABLE MATERIAL AND PROPERLY GRADE IT.
2. PLACE THE GRAVEL TO THE SPECIFIC GRADE AND DIMENSIONS SHOWN ON THE PLANS, AND SMOOTH IT.
3. PROVIDE DRAINAGE TO CARRY WATER TO A SEDIMENT TRAP OR OTHER SUITABLE OUTLET.
4. USE GEOTEXTILE FABRICS IN ORDER TO IMPROVE STABILITY OF THE FOUNDATION IN LOCATIONS SUBJECT TO SEEPAGE OR HIGH WATER TABLE.

MAINTENANCE:
1. PER NCG-01 INSPECT AT LEAST ONCE A WEEK AND AFTER EACH 1 INCH OR GREATER RAINFALL; MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. MAINTAIN THE GRAVEL PAD IN A CONDITION TO PREVENT MUD OR SEDIMENT FROM LEAVING THE CONSTRUCTION SITE. THIS MAY REQUIRE PERIODIC TOPDRESSING WITH 2 INCH STONE.
3. IMMEDIATELY REMOVE ALL OBJECTIONABLE MATERIALS SPILLED, WASHED OR TRACKED ONTO PUBLIC ROADWAYS.

CONSTRUCTION ENTRANCE / EXIT — EROSION CONTROL

Scale:NTS — C4002





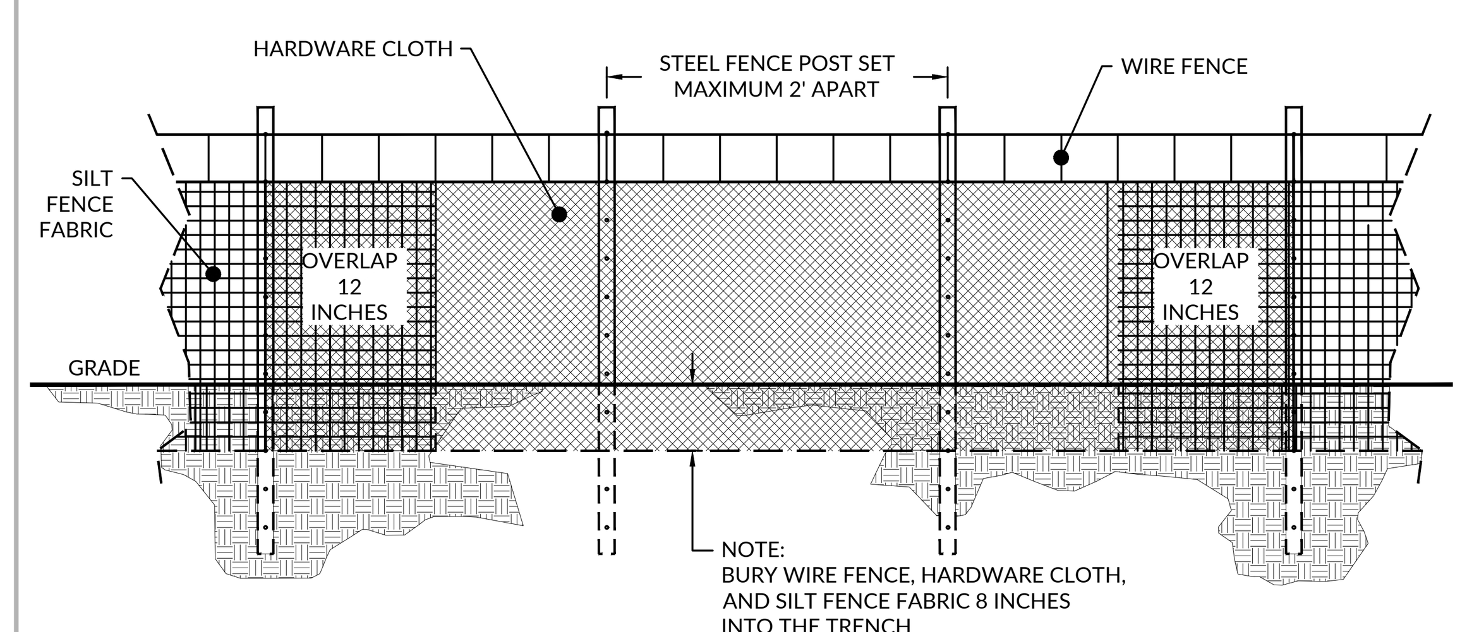
CROSS SECTION VIEW

CONSTRUCTION:
1. CONSTRUCT THE SEDIMENT BARRIER OF STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS.
2. ENSURE THAT THE HEIGHT OF THE SEDIMENT FENCE DOES NOT EXCEED 24 INCHES ABOVE THE GROUND. (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE OF THE STRUCTURE.)
3. CONSTRUCT THE FILTER FROM A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID JOINTS. WHEN JOINTS ARE NECESSARY, SECURELY FASTEN THE FILTER CLOTH ONLY AT A SUPPORT POST WITH 4 FEET MINIMUM OVERLAP TO THE NEXT POST.
4. SUPPORT STANDARD STRENGTH FILTER FABRIC BY WIRE MESH FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS. EXTEND THE WIRE MESH SUPPORT TO THE BOTTOM OF THE TRENCH. FASTEN THE WIRE REINFORCEMENT, THEN FABRIC ON THE UPSLOPE SIDE OF THE FENCE POST. WIRE OR PLASTIC ZIP TIES SHOULD HAVE A MINIMUM 50 POUND TENSILE STRENGTH.
5. WHEN A WIRE MESH SUPPORT FENCE IS USED, SPACE POSTS A MAXIMUM OF 8 FEET APART. SUPPORTS SHOULD BE DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 24 INCHES. WIRE MESH SHALL BE A MINIMUM 14-GAUGE WITH 6-INCH MESH SPACING.
6. EXTRA STRENGTH FILTER FABRIC WITH 6 FEET POST SPACING DOES NOT REQUIRE WIRE MESH SUPPORT FENCE. SECURELY FASTEN THE FILTER FABRIC DIRECTLY TO POSTS. WIRE OR PLASTIC ZIP TIES SHOULD HAVE A MINIMUM OF 50 POUND TENSILE STRENGTH.
7. EXCAVATE THE TRENCH APPROXIMATELY 4 INCHES WIDE AND 8 INCHES DEEP ALONG THE PROPOSED LINE OF THE POSTS AND UPSLOPE FROM THE BARRIER.
8. PLACE 12 INCHES OF FABRIC ALONG THE BOTTOM AND SIDE OF THE TRENCH.
9. BACKFILL THE TRENCH WITH SOIL PLACED OVER THE FILTER FABRIC AND COMPACT. THOROUGH COMPACTION OF THE BACKFILL IS CRITICAL TO SILT FENCE PERFORMANCE.
10. DO NOT ATTACH FILTER FABRIC TO EXISTING TREES.
11. DO NOT PLACE ACROSS DITCHES, STREAMS, OR ANY OTHER AREAS OF CONCENTRATED FLOW.

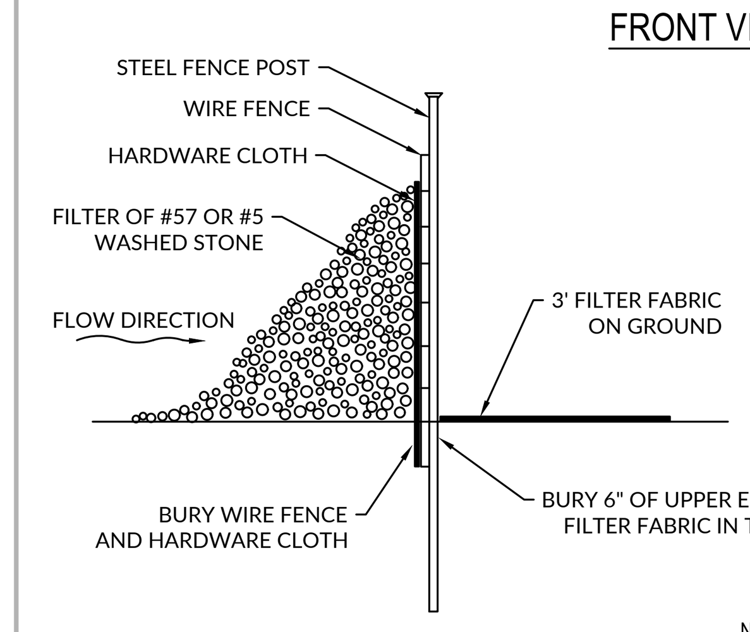
MAINTENANCE:
1. INSPECT SEDIMENT FENCES AT LEAST ONCE A WEEK AND AFTER EACH 1 INCH RAINFALL. MAKE ANY REQUIRED REPAIRS IMMEDIATELY.
2. SHOULD THE FABRIC OF A SEDIMENT FENCE COLLAPSE, TEAR, DECOMPOSE, OR BECOME INEFFECTIVE, REPLACE IT PROMPTLY.
3. REMOVE SEDIMENT DEPOSITS AS NECESSARY TO PROVIDE ADEQUATE STORAGE VOLUME FOR THE NEXT RAIN AND REDUCE PRESSURE ON THE FENCE. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEANOUT.
4. REMOVE ALL FENCING MATERIALS AND UNSTABLE SEDIMENT DEPOSITS AND BRING THE AREA TO GRADE AND STABILIZE IT AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.

SILT FENCE — EROSION CONTROL

Scale:NTS — C4067



FRONT VIEW



SECTION VIEW

NOTES:
1. HARDWARE CLOTH AND GRAVEL SHOULD OVERLAY THE SILT FENCE AT LEAST 12 INCHES.
2. STONE OUTLETS SHOULD BE PLACED ON LOW ELEVATION AREAS OF SILT FENCE AND BASED ON FIELD CONDITIONS.

MAINTENANCE:
1. PER NCG-01, INSPECT OUTLET AT LEAST ONCE A WEEK AND AFTER EACH 1 INCH OR GREATER RAINFALL EVENT. COMPLETE ANY REQUIRED REPAIRS IMMEDIATELY. FRESHEN STONE WHEN SEDIMENT ACCUMULATION EXCEEDS 6 INCHES. KEEP MESH FREE OF DEBRIS TO PROVIDE ADEQUATE FLOW.
2. REMOVE SEDIMENT WHEN HALF OF STONE OUTLET IS COVERED.
3. REPLACE STONE AS NEEDED TO FACILITATE DE-WATERING.

SILT FENCE OUTLET — EROSION CONTROL

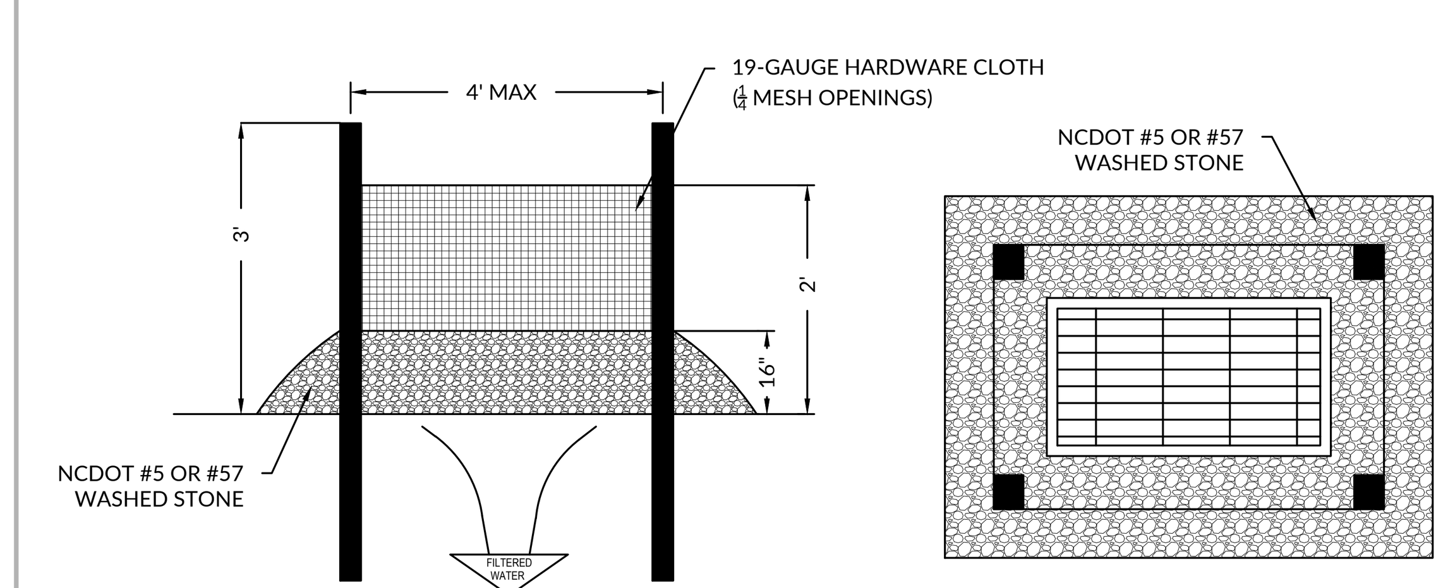
Scale:NTS — C4062

NOTES:

1. UNIFORMLY GRADE A SHALLOW DEPRESSION APPROACHING THE INLET.
2. DRIVE 5-FOOT STEEL POSTS 2 FEET INTO THE GROUND SURROUNDING THE INLET. SPACE POSTS EVENLY AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 4 FEET APART.
3. SURROUND THE POSTS WITH WIRE MESH HARDWARE CLOTH. SECURE THE WIRE MESH TO THE STEEL POSTS AT THE TOP, MIDDLE, AND BOTTOM. PLACE A 2-FOOT FLAP OF THE WIRE MESH UNDER THE GRAVEL FOR ANCHORING.
4. PLACE CLEAN GRAVEL (NC DOT #5 OR #57 STONE) ON A 2:1 SLOPE WITH A HEIGHT OF 16 INCHES AROUND THE WIRE AND SMOOTH TO AN EVEN GRADE.
5. ONCE THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED, REMOVE ACCUMULATED SEDIMENT AND ESTABLISH FINAL GRADING ELEVATIONS.
6. COMPACT THE AREA PROPERLY AND STABILIZED IT WITH GROUNDCOVER.

MAINTENANCE NOTES:

1. INSPECT INLETS AT LEAST WEEKLY AND AFTER EACH SIGNIFICANT (1/2 INCH OR GREATER) RAINFALL EVENT.
2. CLEAR THE MESH WIRE OF ANY DEBRIS OR OTHER OBJECTS TO PROVIDE ADEQUATE FLOW FOR SUBSEQUENT RAINS.
3. TAKE CARE NOT TO DAMAGE OR UNDERCUT THE WIRE MESH DURING SEDIMENT REMOVAL.
4. REPLACE STONE AS NEEDED.



HARDWARE CLOTH AND GRAVEL INLET PROTECTION — EROSION CONTROL

Scale:NTS — C4051

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CONSTRUCTION PLANS

TRI POINTE HOMES SERENITY AMENITY

STREAMSIDE TERRACE | HARNETT COUNTY, NORTH CAROLINA

Signed by: David Starkel 5/27/2025

INITIAL PLAN DATE: 05/23/2025
REVISIONS:
-
-
-

WR JOB NUMBER	23-1177
DRN: WR DGN: WR	CKD: WR

EROSION CONTROL NOTES & DETAILS

C6.04

Date:

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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 feet 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

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

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids.
2. Provide drip pans under any stored equipment.
3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the project.
4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).
5. Remove leaking vehicles and construction equipment from service until the problem has been corrected.
6. 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

1. Never bury or burn waste. Place litter and debris in approved waste containers.
2. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.
3. Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.
4. 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.
5. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.
6. Anchor all lightweight items in waste containers during times of high winds.
7. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.
8. Dispose waste off-site at an approved disposal facility.
9. On business days, clean up and dispose of waste in designated waste containers.

PAINT AND OTHER LIQUID WASTE

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

PORTABLE TOILETS

1. 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.
2. Provide staking or anchoring of portable toilets during periods of high winds or in high foot traffic areas.
3. 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.

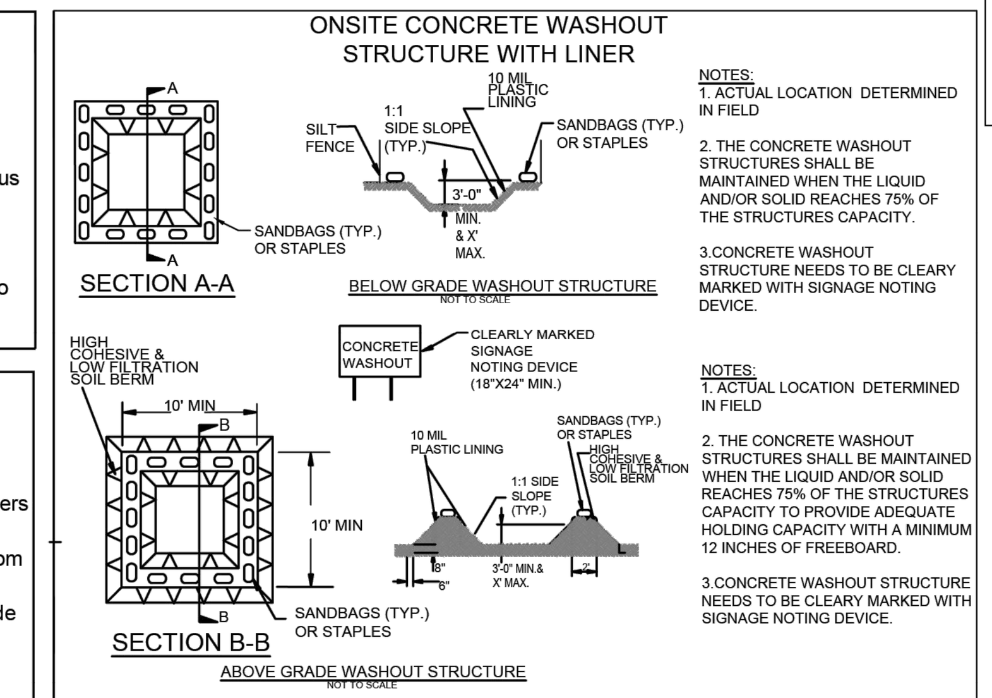
EARTHEN STOCKPILE MANAGEMENT

1. 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.
2. Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.
3. Provide stable stone access point when feasible.
4. 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.

HAZARDOUS AND TOXIC WASTE

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

ONSITE CONCRETE WASHOUT STRUCTURE WITH LINER



CONCRETE WASHOUTS

1. Do not discharge concrete or cement slurry from the site.
2. Dispose of, or recycle settled, hardened concrete residue in accordance with local and state solid waste regulations and at an approved facility.
3. 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.
4. 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.
5. 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.
6. 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.
7. 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.
8. 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.
9. 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.
10. 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

1. Store and apply herbicides, pesticides and rodenticides in accordance with label restrictions.
2. 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.
3. 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.
4. Do not stockpile these materials onsite.

NORTH CAROLINA *Environmental Quality*

EFFECTIVE DATE: 11/12/2020

NCG-01 GROUND COVER & MATERIALS HANDLING

Date:

Page:

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:

(a) 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,
(b) 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,
(c) 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
(d) 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,
(e) Velocity dissipation devices such as check dams, sediment traps, and riprap are provided at the discharge points of all dewatering devices, and
(f) 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 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 on holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (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 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 record of the following shall be made: 1) Actions taken to clean up or stabilize sediment that has left the site limits 2) Description, Evidence and date of corrective actions taken 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 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 2) Records of 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 assurance that they will be provided as soon as possible.

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

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	Document 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 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:

(a) This General Permit as well as the Certificate of Coverage, after it is received.

(b) 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:

(a) Visible sediment deposition in a stream or wetland.
(b) 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).

(c) 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.
(d) Anticipated bypasses and unanticipated bypasses.
(e) 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 Timeframe (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 caused, 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(I)(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(I)(6). • Division staff may waive the requirement for a written report on a case-by-case basis.

NORTH CAROLINA *Environmental Quality*

EFFECTIVE DATE:11/12/2020

NCG-01 SELF INSPECTION

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Raleigh, NC 27607

CONSTRUCTION PLANS
TRI POINTE HOMES SERENITY AMENITY
STREAMSIDE TERRACE | HARNETT COUNTY, NORTH CAROLINA

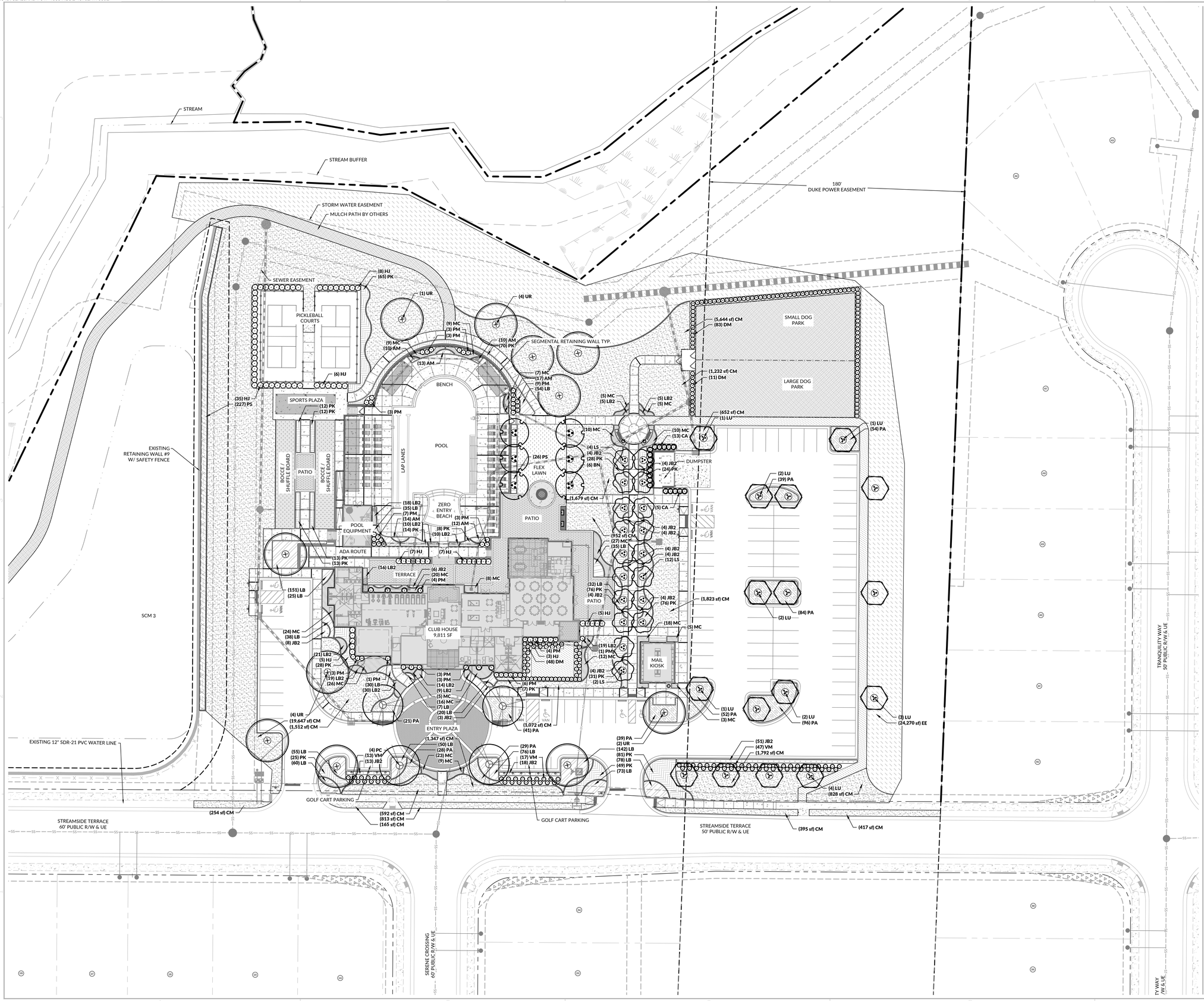
NORTH CAROLINA PROFESSIONAL SEAL 046230 ENGINEER DAVID L. STARKEL
Signed by: David Starkel 438D5C988B8F438... 5/27/2025

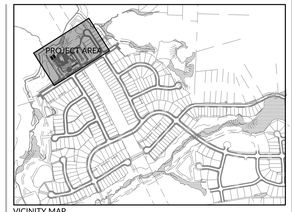
INITIAL PLAN DATE: 05/23/2025
REVISIONS:
-
-
-

WR JOB NUMBER	23-1177
DRN: WR DGN: WR	CKD: WR

NCG01 NOTES

C6.05





VICINITY MAP

PLANT SCHEDULE

SYMBOL	CODE	COMMON NAME
TREES		
	LU	ACOMA CRAPE MYRTLE
	PC	CHINESE PISTACHE
	UR	LACEBARK ELM
	LS	MUSKOGEE CRAPE MYRTLE MULTI-T
	BN	RIVER BIRCH MULTI-TRUNK
SHRUBS		
	CA	AUTUMN ROCKET CAMELLIA
	DM	CINNAMON GIRL® DISTYLIUM
	HJ	LITTLE LIME® PANICLE HYDRANGEA
	PM	MAKI YEW PODOCARPUS
	VM	MRS. SCHILLERS DELIGHT WALTER'S
GROUND COVERS		
	LB2	BECKY SHASTA DAISY
	CM	BERMUDAGRASS
	LB	BIG BLUE LILYTURF
	JB2	BLUE STAR JUNIPER
	PA	CASSIAN FOUNTAIN GRASS
	EE	ELLIOT'S LOVE GRASS
	PK	KARLEY ROSE FOUNTAIN GRASS
	AM	MILLENIUM ORNAMENTAL ONION
	MC	PINK MUHLY GRASS
	PS	SHENANDOAH SWITCH GRASS

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CONSTRUCTION PLANS
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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 2077 DANIEL B. WHITLEY
DocuSigned by: Daniel Whitley 930512AD741A401...
5/27/2025

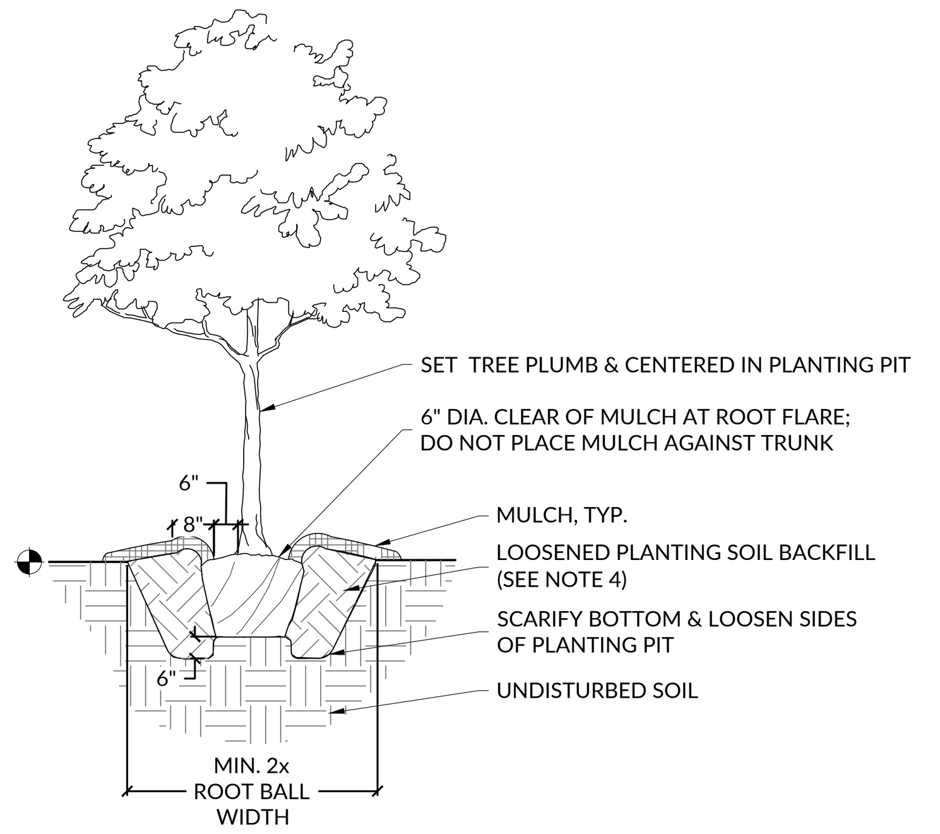
0 15 30
SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 05/23/2025
REVISIONS:

WR JOB NUMBER	23-1177
DRN: WR	DGN: WR CKD: WR

LANDSCAPE PLAN

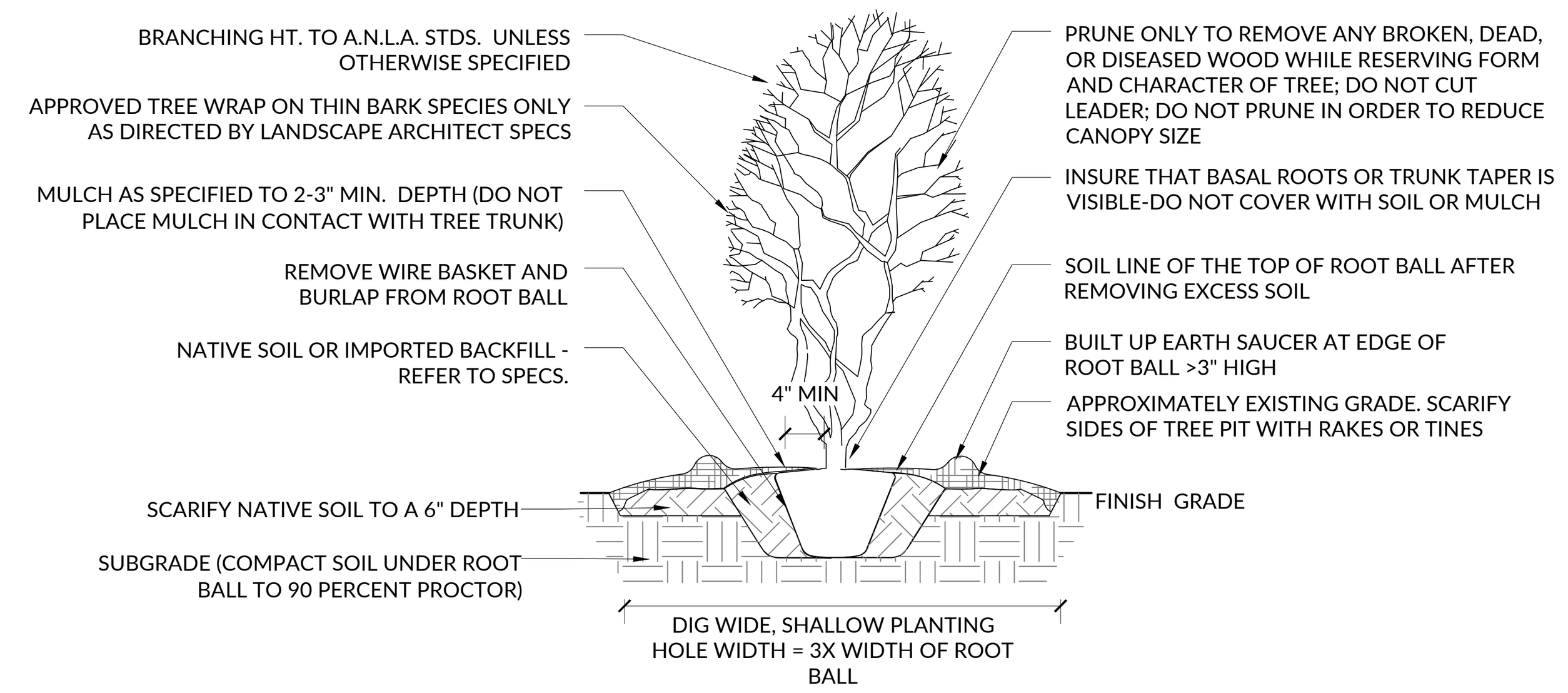
L1.00



NOTES:

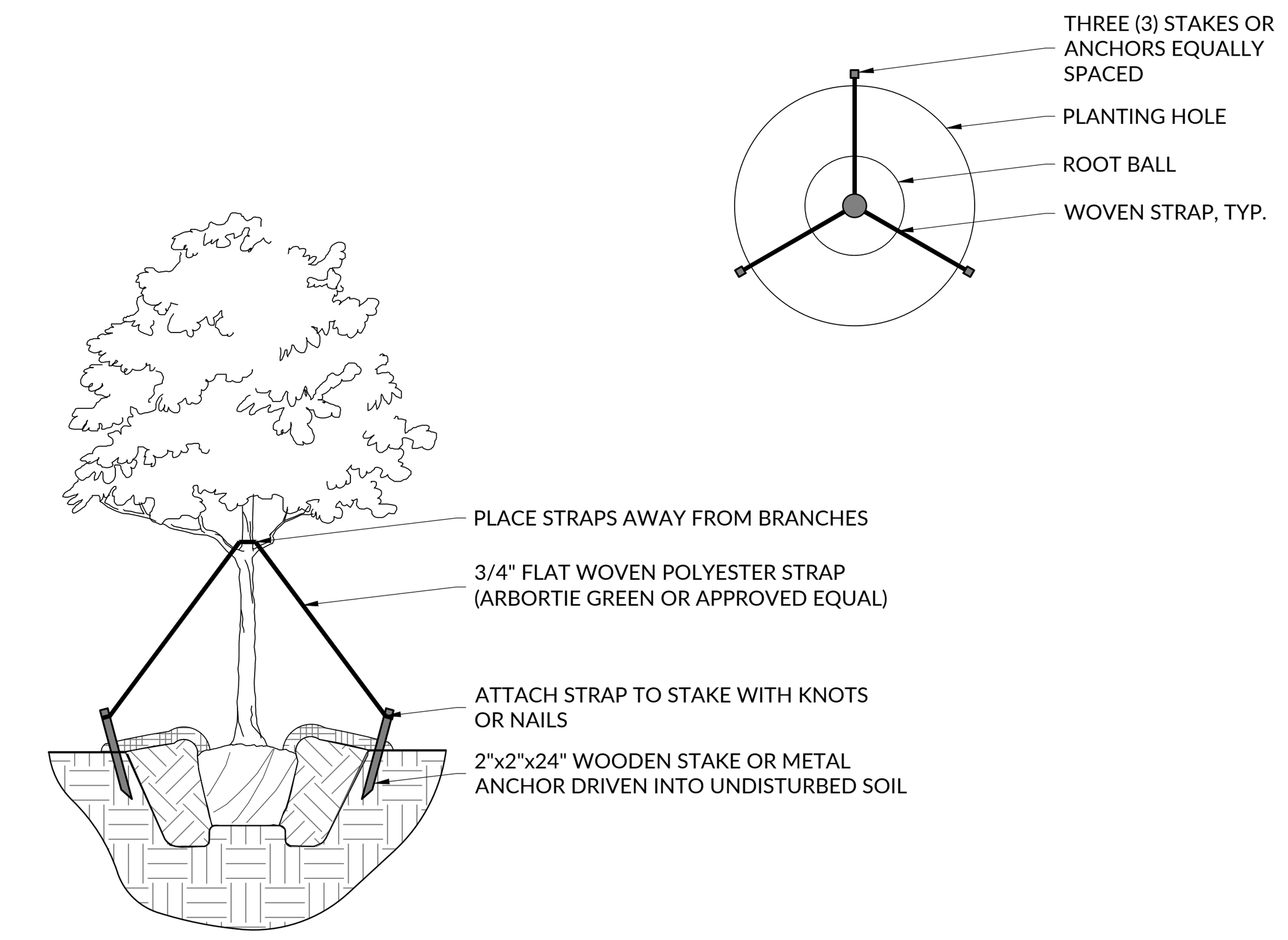
1. FOR CONTAINER PLANTS, REMOVE CONTAINER & SCARIFY ROOT MASS PRIOR TO PLANTING.
2. FOR B&B PLANTS, COMPLETELY REMOVE WIRE BASKET AND BURLAP MATERIAL; REMOVE ALL TWINE, ROPE,BURLAP, AND WIRE FROM ROOT BALL.
3. SET ROOT BALL ON UNDISTURBED STABLE SUBSOIL SO THAT TOP OF ROOT BALL IS 2-3" ABOVE FINISHED GRADE. TAMP SOIL FIRMLY AROUND BOTTOM OF ROOT BALL TO SET TREE PLUMB.
4. DIG & TURN PLANTING SOIL TO REDUCE COMPACTION. LIGHTLY TAMP SOIL AROUND ROOT BALL IN 6" LIFTS TO BRACE THE TREE. DO NOT OVER-COMPACT. MIX COMPOST INTO EACH LIFT OF BACKFILL AS RECOMMENDED IN SOIL REPORT. POUR WATER AROUND ROOT BALL TO SETTLE SOIL, AND BACKFILL AS REQUIRED TO MEET REQUIRED FINISHED GRADE.
5. A 3" HIGH x 8" WIDE BERM SHALL BE MADE AROUND THE ROOT BALL EDGE.
6. PRUNE TREES ONLY AS NEEDED TO REMOVE DEAD OR BROKEN BRANCHES.
7. TREES IN WINDY LOCATIONS OR ON STEEP SLOPES ARE TO BE ANCHORED PER DIRECTION FROM LANDSCAPE ARCHITECT.

1 TREE PLANTING — SECTION
SCALE: 1/4" = 1'-0"

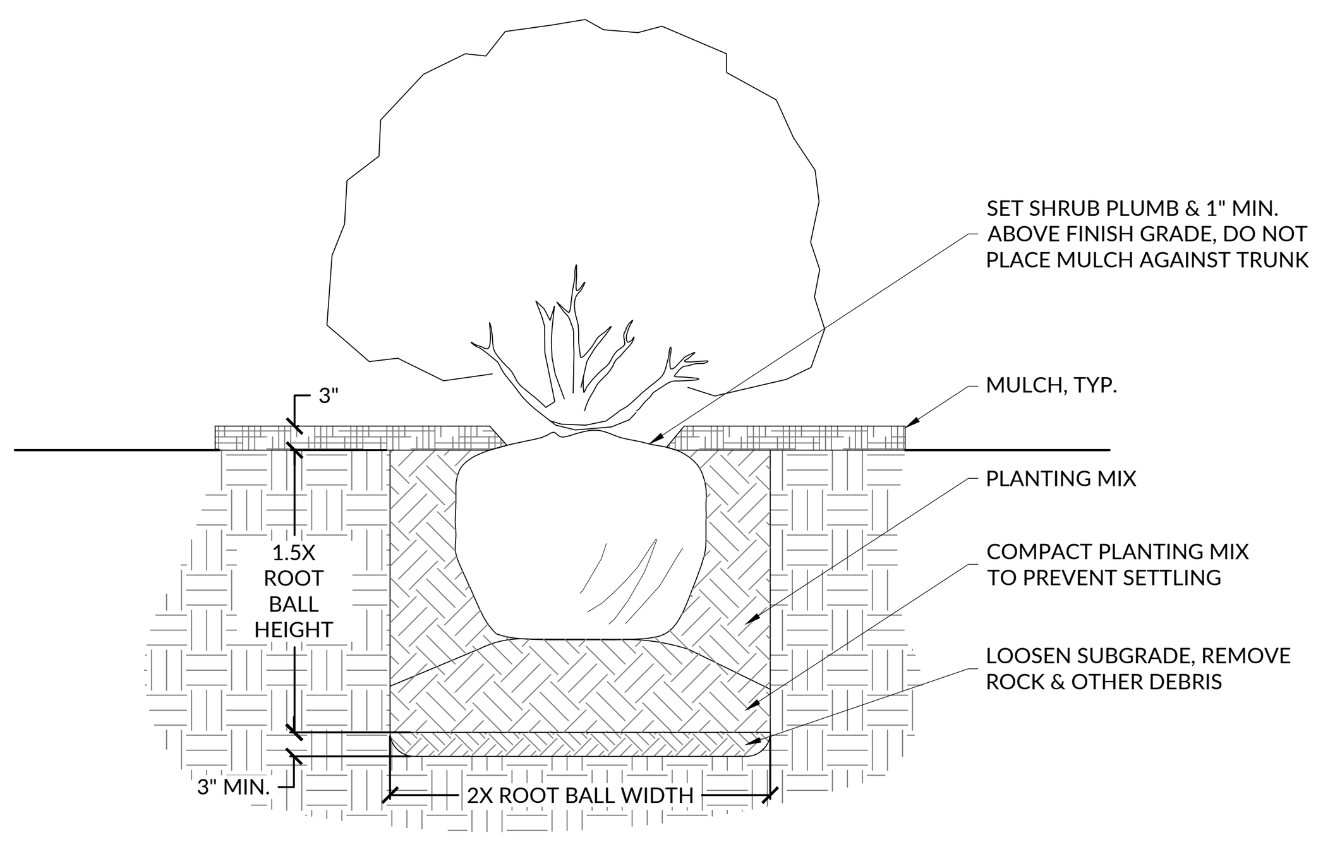


TREE PLANTING NOTES:
1. IF TREES SETTLE OR ARE BLOWN OUT OF PLUMB POSITION, THEY SHOULD BE STRAIGHTENED BY MAKING ADJUSTMENTS TO THE POSITION OF THE ROOTBALL - NOT BY PUSHING ON THE TRUNK AND/OR TIGHTENING THE GUY WIRE. TREES SHALL BE STRAIGHTENED DURING THE LIFE OF THE PROJECT AS THEY GET OUT OF PLUMB, NOT JUST AT THE END OF THE PROJECT.
2. BALL DEPTHS ON SOME TREES IN A SINGLE GROUP MAY VARY. IF DEPTHS VARY, ALL TREES IN A GROUP SHOULD BE SET SO THAT THE BASE OF THE TRUNKS WILL APPEAR TO BE AT THE SAME RELATIVE ELEVATION ABOVE GRADE.
3. NO DECIDUOUS OR EVERGREEN TREES WILL BE ACCEPTED IF THERE IS MORE THAN ONE LEADER, UNLESS THE TREE IS SPECIFIED AS MULTI-TRUNK.
4. CONTRACTOR TO VERIFY THAT ADEQUATE DRAINAGE EXISTS PRIOR TO PLANTING.
5. STAKING OF TREES IS NOT RECOMMENDED, EXCEPT ON WINDY SITES OR IF TREES ARE 3" CALIPER AND LARGER. IF STAKING IS DONE, FLEXIBLE STRAPS - NOT HOSE AND WIRE - SHOULD BE USED AND MUST BE REMOVED AT APPROPRIATE TIME. PROPERTY OWNER IS RESPONSIBLE FOR REPLACEMENT OF DESTROYED OR DAMAGED TREES.
6. ALL TREES SHALL CONFORM TO THE STANDARDS SET FORTH IN THE MOST RECENT EDITION (2004 OR LATER) OF AMERICAN STANDARD FOR NURSERY STOCK PUBLISHED BY A.N.L.A.
7. A ROOT COLLAR EXCAVATION FOR ALL TREES SPECIFIED WILL BE DONE BY THE TOWN ARBORIST TO ENSURE THAT TREES WERE PLANTED/GROWN TOO DEEPLY BY THE SOURCE (NURSERY). LANDSCAPE CONTRACTOR SHALL HAVE SUPPLIER MARK GROUND LEVEL LINE ABOVE ROOTBALL. IF TOWN ARBORIST DETERMINES THAT THERE IS EXCESSIVE SOIL OVER ROOT CROWN, THESE TREES WILL BE REJECTED.

2 MULTI-STEM TREE PLANTING — SECTION
SCALE: 1/4" = 1'-0"



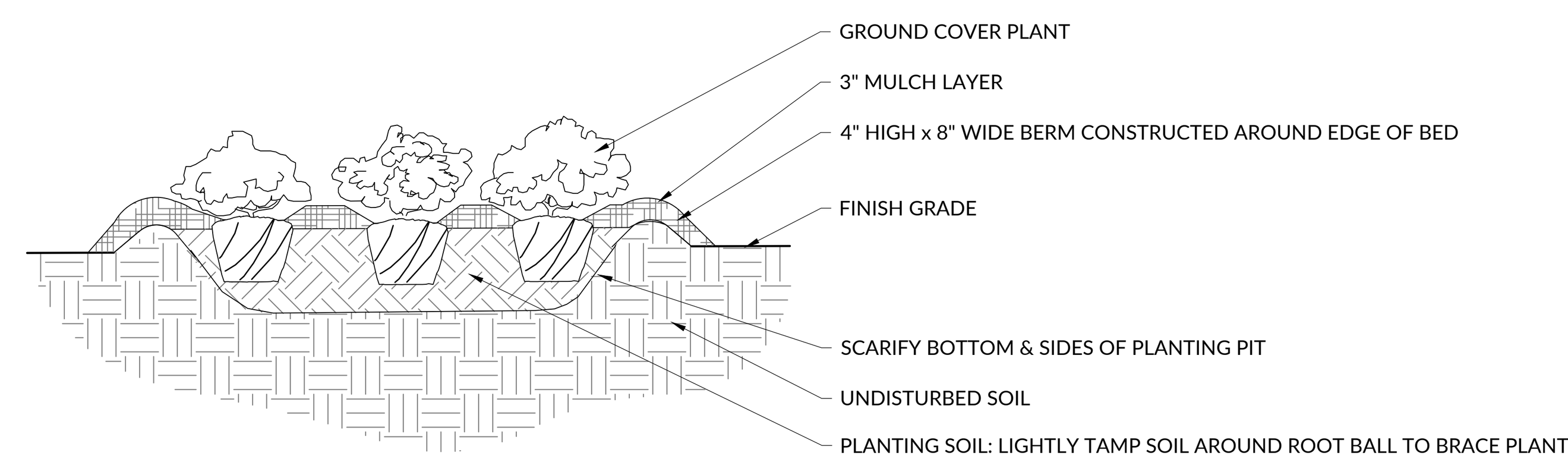
3 TREE STAKING — SECTION
SCALE: 1/4" = 1'-0"



NOTES:

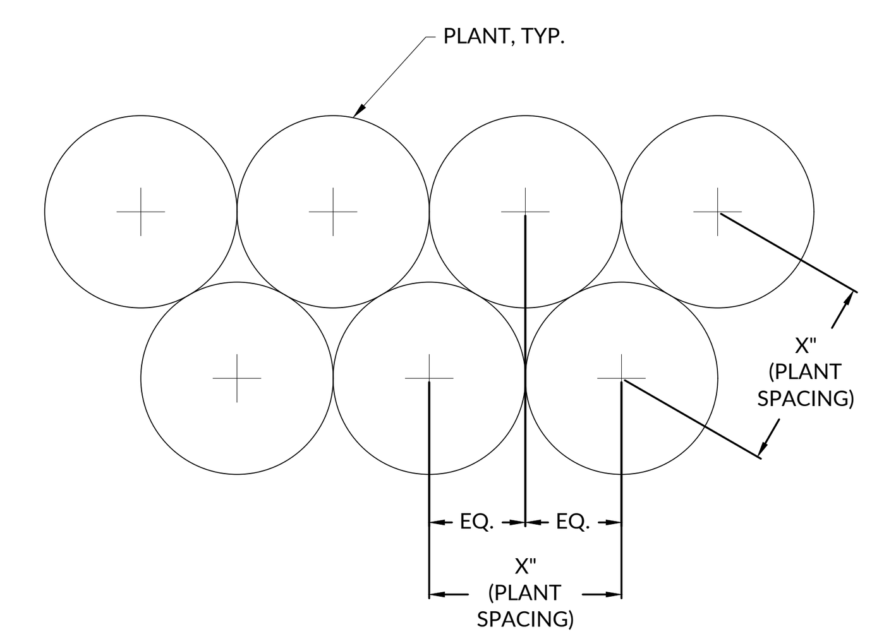
1. FOR CONTAINER PLANTS, SPLIT THE ROOT BALL WITH 4 EQUALLY SPACED VERTICAL CUTS & SCARIFY ROOT MASS PRIOR TO PLANTING.
2. FOR B&B PLANTS, REMOVE ALL TWINE, ROPE, WIRE, AND BURLAP FROM ROOT BALL.
3. A 3" HIGH x 8" WIDE BERM SHALL BE MADE AROUND THE ROOT BALL EDGE.
4. PLANTING AREAS WITH MULTIPLE SHRUBS ARE TO BE SIZED SO THAT THE OUTER EDGE OF PLANTING SOIL IS 8" MIN. FROM THE NEAREST SHRUB.
5. SHRUBS ARE TO BE LOCATED SUCH THAT MATURE CANOPY IS 5' MIN. FROM FIRE HYDRANTS AND 24" MIN. FROM CURB LINE.
6. SHRUBS ARE TO BE LOCATED WITH TRIANGULAR SPACING (SEE DETAIL) UNLESS OTHERWISE SHOWN ON THE PLANS.
7. PRUNE SHRUBS ONLY AS NEEDED TO REMOVE DEAD OR BROKEN BRANCHES.

4 SHRUB PLANTING — SECTION
SCALE: 1/2" = 1'-0"



PLANTING NOTES:
1. SPLIT PLANT ROOTS WITH 2-3 EQUALLY-SPACED VERTICAL CUTS.

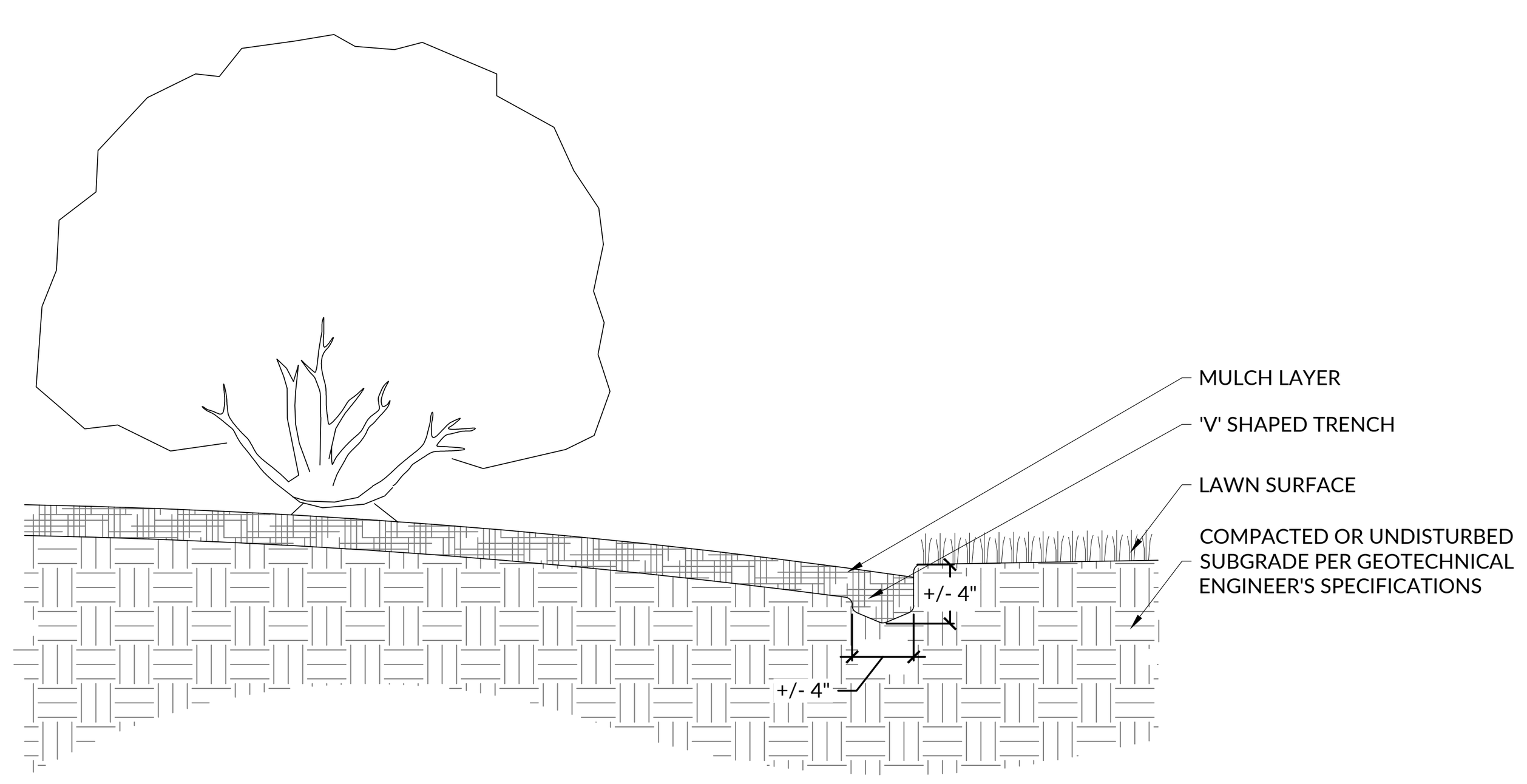
5 GROUNDCOVER PLANTING — SECTION
SCALE: 3/8" = 1'-0"



NOTES:

1. REFER TO PLANT SCHEDULE FOR SPACING REQUIREMENTS FOR EACH SPECIES.
2. PLANTS SHALL BE INSTALLED IN STRAIGHT AND PARALLEL ROWS FOLLOWING THIS PATTERN UNLESS OTHERWISE SHOWN ON DRAWINGS.

6 TYPICAL PLANT SPACING — SECTION
SCALE: 1/2" = 1'-0"



7 PLANTING BED — SECTION
SCALE: 1" = 1'-0"

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 2077 DANIEL B. WHATLEY
DocuSigned by:
5/27/2025

INITIAL PLAN DATE: 05/23/2025
REVISIONS:

WR JOB NUMBER 23-1177
DRN: WR DGN: WR CKD: WR

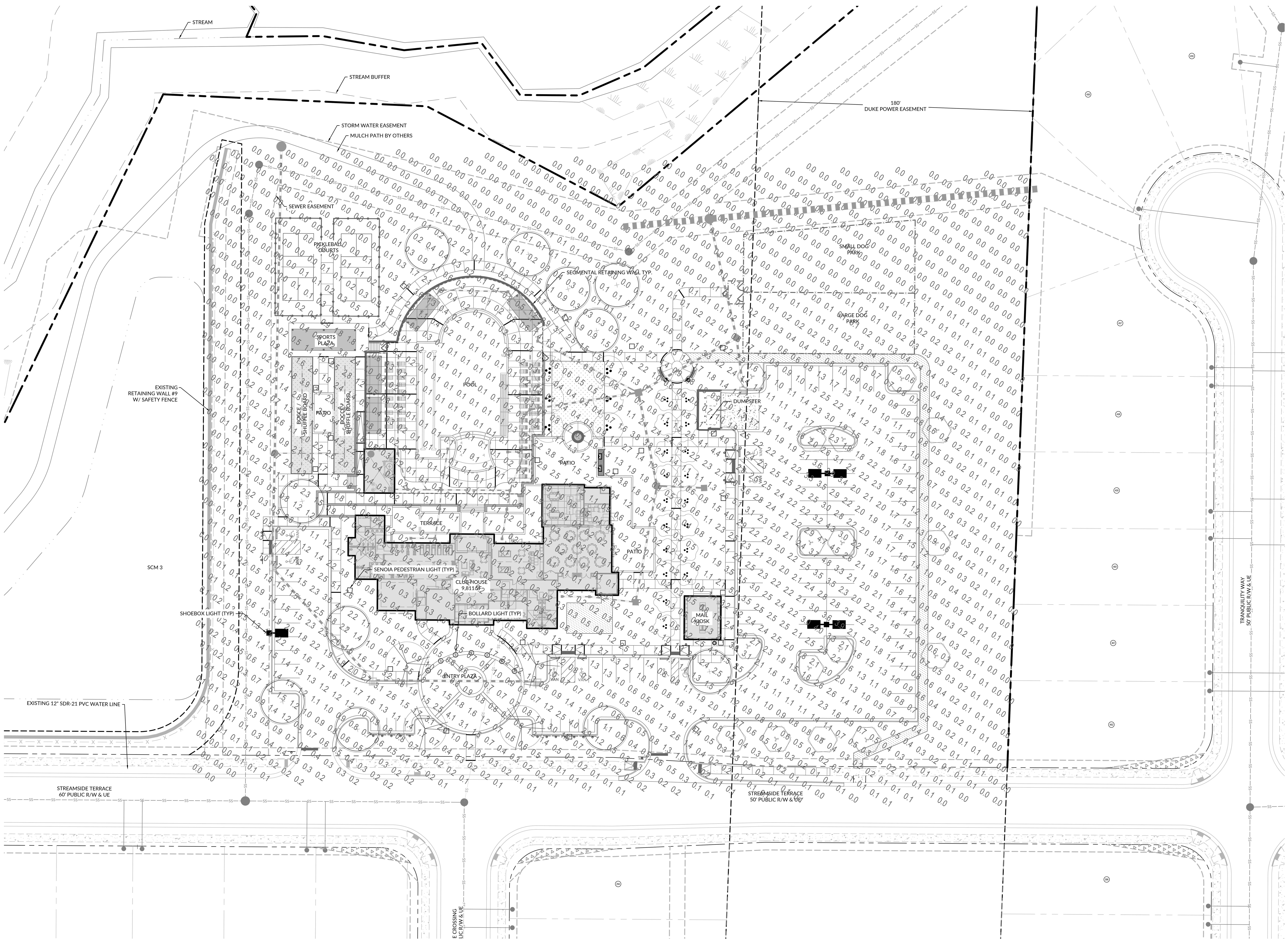
LANDSCAPE DETAILS

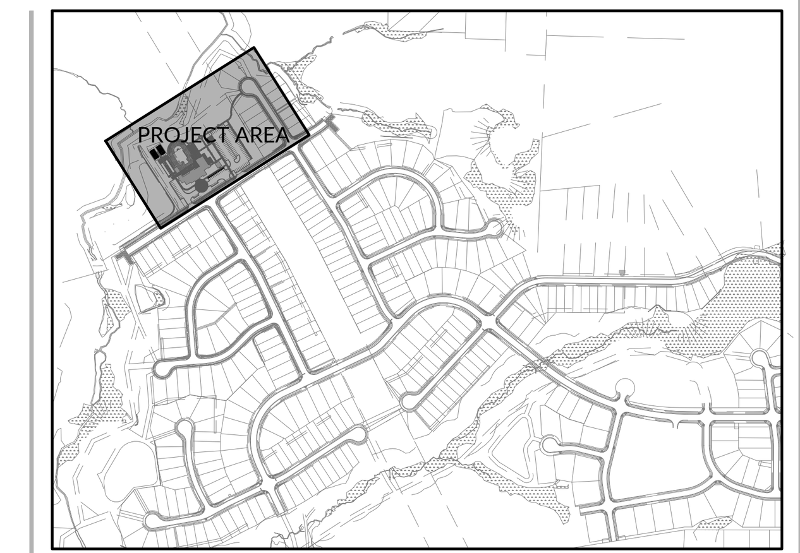
L2.00

PARKING LOT PHOTOMETRICS	
AVERAGE FOOT-CANDLES	1.8
MAXIMUM FOOT-CANDLES	5
MINIMUM FOOT-CANDLES	0.5
MINIMUM TO MAXIMUM FC RATIO	0.1
MAXIMUM TO MINIMUM FC RATIO	10.33
AVERAGE TO MINIMUM FC RATIO	3.69

LUMINAIRE SCHEDULE

CALLOUT	SYMBOL	LAMP	DESCRIPTION	BALLAST	MOUNTING	MODEL	VOLTS	QUANTITY
BLD	○	(1) 30W	Columbia LED Bollard, P40 Performance Package, 3000K, No internal reflector, Type 5, Acrylic White Smooth translucent lens	ELECTRONIC	44" BOLLARD	Holophane, CLBOLED P40 30K xxxxx NIO5 AWS	120V 1P 2W	7
PED	□	(4) 50W	ARBOR OUTDOOR ARCHITECTURAL POST TOP70 CRI, 3000K LEDS AND TYPE III OPTIC	ELECTRONIC	13' POLE	COOPER LIGHTING SOLUTIONS - INVUE (FORMERLY EATON), ARB-50-LED-T3-7030_54W	120V 1P 2W	22
SHBX	■	(48) 150W	GALLEON AREA AND ROADWAY LUMINAIRE(3) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS	ELECTRONIC	30' POLE	EATON - STREETWORKS (FORMER COOPER LIGHTING), GAN-AF-03-LED-U-T4W	120V 1P 2W	5





VICINITY MAP

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NORTH CAROLINA REGISTERED LANDSCAPE ARCHITECT 2077 DANIEL B. WHATLEY
DocuSigned by: 93C512AC741A4C1...
5/27/2025

0 15 30
SCALE: 1 inch = 30 ft.

INITIAL PLAN DATE: 05/23/2025
REVISIONS:

WR JOB NUMBER	23-1177	
DRN: WR	DGN: WR	CKD: WR

LIGHTING EXHIBIT

SL1.00

EST. 1983