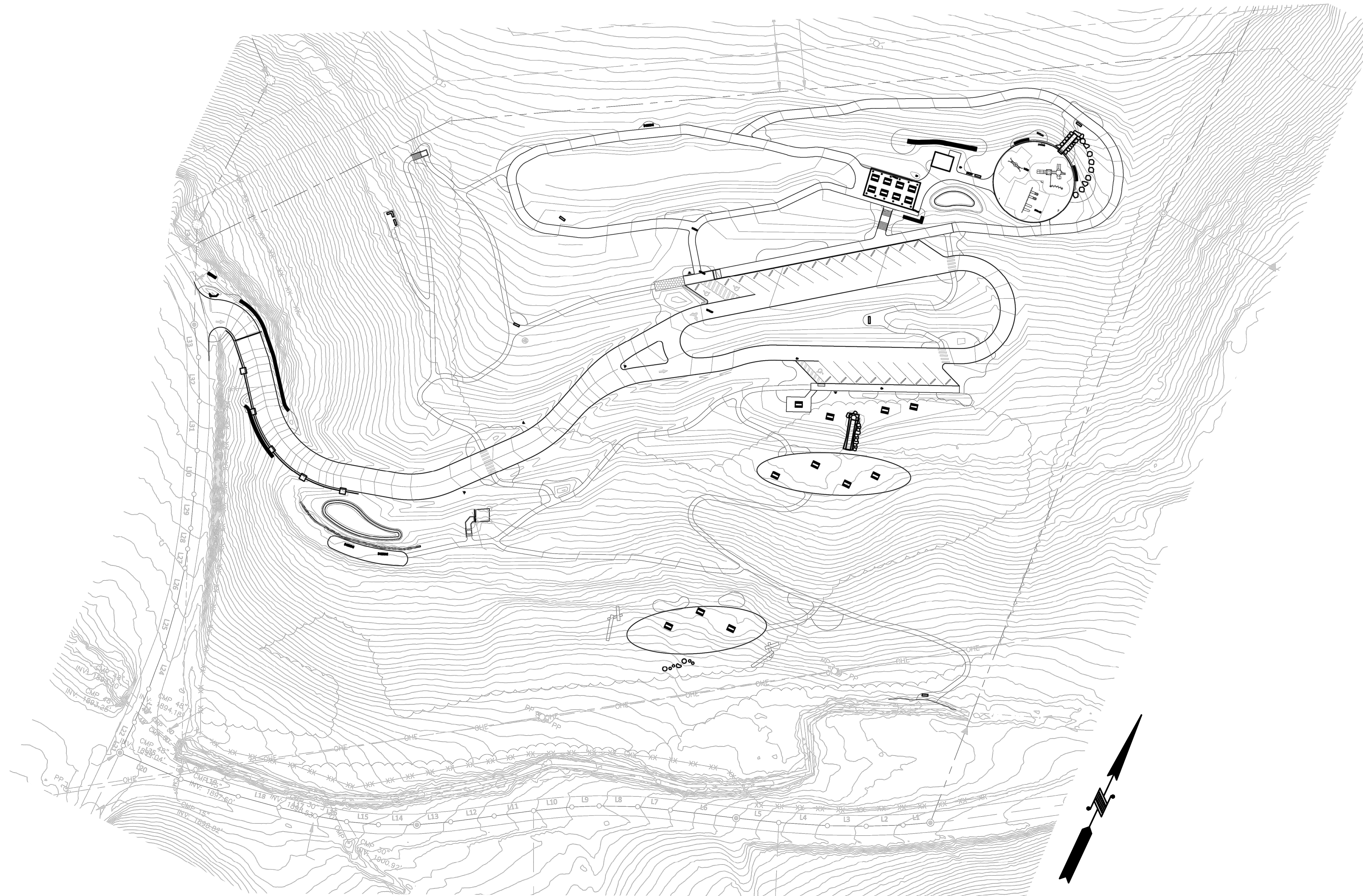


QUALLA/WHITTIER COMMUNITY PARK

BID SET



PREPARED FOR:



CLIENT/OWNER:
Jackson County Parks &
Recreation 88 Cullhowee Mtn
Rd
Sylva, NC 28779
(828) 293-3053

PREPARED BY:



EQUINOX

LANDSCAPE ARCHITECT:
Equinox
14 O'Henry Avenue, Suite 206
Asheville, NC 28801
(828) 253-6856 (x202)
david@equinoxenvironmental.com

PROJECT INFORMATION:

ADDRESS:
TR 1 Sunset Farms Road
Whittier, NC 28789
Latitude: 35.426324° N
Longitude: -83.324217° W

PROJECT SIZE:
Approximately 10.5 Ac Total
Disturbance area is 6.80 Ac

All aspects of work shall be performed in accordance with all applicable local, state, and federal regulations pertaining to worker safety.

OTHER CONTACTS

PROFESSIONAL LAND SURVEYOR:
WithersRavenel
Marshall Wight
115 MacKenan Drive
Cary, NC 27511
(919) 469-3340

ELECTRICAL & UTILITY ENGINEER:
WithersRavenel
Jason Bertoncino
115 MacKenan Drive
Cary, NC 27511
(919) 469-3340

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| L0.2.2 | WithersRavenel Survey |
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VICINITY MAP



NOTES & GENERAL SPECIFICATIONS

- GENERAL:**
- CALL 811 TO LOCATE ALL UTILITIES PRIOR TO DIGGING.
 - SEDIMENTATION OF THE STORMWATER CONTROL MEASURES WILL CAUSE FAILURE, THEREFORE, INSTALL ALL STORMWATER CONTROL MEASURES ONLY AFTER ALL SEDIMENT AND EROSION ON-SITE IS CONTROLLED AND SITE IS STABILIZED AND SEEDDED. (SEE EROSION CONTROL MEASURE SECTION IN NOTES FOR MORE DETAIL).
 - WHERE CONFLICTS OCCUR BETWEEN NOTES, DRAWINGS, OR SPECIFICATIONS, THE CONTRACTOR SHALL NOT PROCEED WITH THE AFFECTED WORK UNTIL THE LANDSCAPE ARCHITECT ISSUES A CLARIFICATION.
- APPROVALS**
- PRIOR TO CUTTING IN THE GREENWAY, THE CENTER LINE OF THE GREENWAY SHALL BE FLAGGED AND REVIEWED BY THE CLIENT AND THE PROJECT LANDSCAPE ARCHITECT.
 - PRIOR TO FINAL GRADING THE DRAINAGE IN THE PROJECT AREA SHALL BE REVIEWED BY THE CLIENT AND PROJECT LANDSCAPE ARCHITECT.
- CONSTRUCTION:**
- SEE CONSTRUCTION SEQUENCE ON EROSION CONTROL SHEETS.
 - BURNING IS NOT PERMITTED.
 - EDGE OF WATER AT TIME OF SURVEY SHOWN - ACTUAL WATER ELEVATION MAY VARY.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL APPLICABLE BUILDING PERMITS, LABOR, MATERIALS, AND EQUIPMENT REQUIRED TO PERFORM THE SPECIFIED WORK.
 - ALL ASPECTS OF WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS PERTAINING TO WORKER SAFETY.
 - ALL PAVING MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NC DOT "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES".
 - CONTRACTOR SHALL COORDINATE ALL SITE ACTIVITIES WITH OWNER OR DESIGNATED REPRESENTATIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING DELIVERY, STORAGE, AND HANDLING OF ALL MATERIALS REQUIRED FOR THE PROJECT.
 - ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 30 WORKING DAYS FOLLOWING THE COMPLETION OF LAND DISTURBING ACTIVITIES. IF THERE ARE MORE STRINGENT SOIL STABILIZATION GUIDELINES PUT IN PLACE BY LOCAL, COUNTY, STATE, OR FEDERAL AGENCIES OR CALLED FOR BASED ON PERMIT REQUIREMENTS THEN THE MORE STRINGENT GUIDELINES SHALL CONTROL AND GOVERN ON THE PROJECT.
 - CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL SPOIL MATERIAL OFF OF THE OWNER'S PROPERTY IN COMPLIANCE WITH ALL FEDERAL, STATE, AND LOCAL ENVIRONMENTAL LAWS AND REGULATIONS AT THE PRE-DETERMINED LANDFILL SITE. LANDFILL FEES SHALL BE INCLUDED IN THE CONTRACTOR'S PROJECT FEE. THIS INCLUDES ALL SURPLUS SOIL MATERIAL, UNSUITABLE TOPSOIL, ROCK, OBSTRUCTIONS, DEMOLISHED MATERIALS AND WASTE MATERIALS (INCLUDING TRASH AND DEBRIS). ANY BORROW SITE UTILIZED FOR BORROW MATERIAL IS REQUIRED AN APPROVED EROSION AND SEDIMENT CONTROL CERTIFICATE/PERMIT PRIOR TO THE INITIATION OF THE LAND DISTURBING ACTIVITY.
 - REMOVE ALL DAMAGED TREES NEAR GREENWAY, PARKING, AND TRAILHEAD THAT POSE A SAFETY HAZARD.
 - CONTRACTOR TO FURNISH AND PROVIDE THIRD PARTY MATERIAL TESTING AS PART OF CONSTRUCTION BID.
 - CONTRACTOR TO FURNISH AND PROVIDE THIRD PARTY GEOTECHNICAL EVALUATION OF SUBGRADE TO ENSURE ADEQUATE BEARING.
 - CONTRACTOR TO CONFORM TO OWNER'S SAFETY PROTOCOL AND PROVIDE A SITE SPECIFIC SAFETY PLAN AND OTHER DOCUMENTATION AS NECESSARY.
 - FOR PLASTIC SEWER PIPING, STORM AND SANITARY, AN INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO AND OVER THE FULL LENGTH OF THE PIPING. THE TRACER WIRE SIZE SHALL BE NOT LESS THAN 14 AWG AND THE INSULATION TYPE SHALL BE LISTED FOR DIRECT BURIAL.
 - ALL FASTENERS TO BE GALVANIZED STEEL UNLESS OTHERWISE SPECIFIED
 - ALL WOOD TO BE PRESSURE TREATED UNLESS OTHERWISE SPECIFIED.
 - SEE SPECIFICATIONS FOR COMPOSITE TIMBER.
- GRADING:**
- ALL PROPOSED SPOT GRADES AND CONTOURS SHOW FINISH GRADE.
 - ALL CUT SLOPES AND FILL SLOPES TO BE 2:1 AND 3:1 RESPECTIVELY UNLESS OTHERWISE INDICATED.
 - CROSS SLOPES ON SIDEWALKS SHALL NOT EXCEED 1.9%
 - GROUND SURFACE SHALL BE SHAPED TO PROVIDE POSITIVE DRAINAGE. A MIN. OF 2% IN THE DIRECTION OF DESIRED FLOW IS REQUIRED FOR NON PAVED SURFACES AND A MIN. OF 1% FOR PAVED SURFACES.
- PLANTING:**
- CONTRACTOR SHALL VERIFY ALL QUANTITIES, MEASUREMENTS AND SITE CONDITIONS. NO PLANT SUBSTITUTIONS ALLOWED UNLESS WRITTEN PERMISSION FROM LANDSCAPE ARCHITECT IS GIVEN.
 - IF THERE IS A DISCREPANCY BETWEEN THE QUANTITY OF PLANTS SHOWN ON THE PLAN AND THE QUANTITIES IN THE PLANT SCHEDULE USE THE HIGHER NUMBER OF PLANTS. IF THIS OCCURS NOTIFY THE PROJECT LANDSCAPE ARCHITECT, EQUINOX.
 - ALL PLANTING BEDS ARE TO BE CLEANED OF ROCKS AND DEBRIS >1", TILLED TO 12" DEPTH AND AMENDED WITH 3" OF NATURES HELPER (OR APPROVED EQUAL), THEN THOROUGHLY TILLED TOGETHER. SEE STONE & ROCK.
 - PLANTING SOIL SHALL BE TOPSOIL AMENDED WITH 3" OF NATURES HELPER (OR APPROVED EQUAL) AND THOROUGHLY TILLED TOGETHER.
 - ANY REMAINING DISTURBED, NON-PLANTED AREAS ARE TO BE FINE GRADED AND SEEDED WITH FESCUE BLEND OR MULCHED AS NOTED ON PLAN.
 - ALL PLANTS, MATERIALS, PLANTING AND SEEDING ACTIVITIES SHALL CONFORM TO LANDSCAPE INDUSTRY STANDARDS, COMPLY WITH SIZING AND GRADING STANDARDS OF THE LATEST EDITION OF "AMERICAN STANDARD OF NURSERY STOCK", PROVIDE STOCK TRUE TO BOTANICAL NAME AND LEGIBLY TAGGED.
 - STOCKPILE LOCATION(S) TO BE APPROVED BY LANDSCAPE ARCHITECT.
 - KEEP PLANT SPECIES MOIST AND SHADED UNTIL INSTALLATION. DO NOT LEAVE IN THE SUN OR LET PLANTS DRY OUT. SATURATE PLANTS AFTER INSTALLATION. PLANTS SHALL NOT BE DELIVERED ON-SITE PRIOR TO 5 DAYS BEFORE INSTALLATION.
 - DIG, PACK, TRANSPORT AND HANDLE ALL PLANTS WITH CARE TO ENSURE PROTECTION FROM INJURY. STORE PLANTS IN THE MANNER NECESSARY TO ACCOMMODATE THEIR HORTICULTURAL REQUIREMENTS. HEEL-IN PLANTS IF NECESSARY TO PROTECT ROOT BALLS AND KEEP FROM DRYING OUT.
 - ALL PLANTS TO BE INSPECTED BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. IF ANY PLANTS ARE IN POOR CONDITION, UNHEALTHY LOOKING, DISEASED, OR DYING THE CONTRACTOR WILL REPLACE AS REQUESTED BY LANDSCAPE ARCHITECT OR THE OWNER.
 - DURING INSTALLATION, THE CONTRACTOR SHALL NOTIFY LANDSCAPE ARCHITECT OF ANY CONDITIONS WHICH MAY BE HARMFUL TO PLANT LIFE, SUCH AS HAZARDOUS MATERIALS, ETC. LANDSCAPE ARCHITECT SHALL MAKE RECOMMENDATIONS TO ADDRESS THE SPECIFIC SITUATION.
 - CONTRACTOR TO REMOVE ALL STONES OVER 1" IN DIA. AND ALL CONSTRUCTION DEBRIS INCLUDING GRAVEL, CONCRETE, ROOTS, AND OTHER MATERIAL THAT MAY BE HARMFUL OR PREVENT PROPER ESTABLISHMENT AND OR MAINTENANCE OF PLANTING AREAS.
 - IN AREAS WHERE CONSTRUCTION MATERIAL IS EMBEDDED IN THE SOIL, CONTRACTOR SHALL REMOVE CONTAMINATED SOIL TO A DEPTH OF 8" AND ADD FILL WITH CLEAN, WEED-FREE PLANTING SOIL.
 - LARGE MATURING TREES SHALL NOT BE PLANTED UNDER OVERHEAD POWER LINES OR WITHIN SEWER RIGHTS-OF-WAY. CONTRACTOR SHALL CONTACT LANDSCAPE ARCHITECT TO RESOLVE ANY ISSUES BEFORE PLANTING.
 - FOR ALL B&B TREES, ROOT BALL SHALL REMAIN MOIST AT ALL TIMES AND SHOULD RETAIN SHAPE WHEN REMOVING TOP 1/2 - 2/3 OF WIRE BASKET FOR TRANSPLANTING. CONTRACTOR SHALL REMOVE TOP 1/2 OF BURLAP FROM ROOT BALL.
 - ALL PLANTINGS TO BE WATERED AFTER PLANTING IMMEDIATELY (SAME DAY) AND TO BE CONTINUED TO BE WATERED REGULARLY (2X A DAY) UNTIL CONSTRUCTION IS COMPLETE.
 - ALL CONTAINER, B&B TREES AND SHRUBS TO BE GUARANTEED FOR 1 YEAR (MINIMUM).
 - ALL MULCH TO BE DOUBLE GROUND HARDWOOD MULCH, UNLESS OTHERWISE SPECIFIED.
 - ALL PLANTING BEDS, CONTAINER TREES AND SHRUBS, AND B&B TREES TO BE MULCHED WITH NO MORE THAN 2 1/2" OF MULCH.
 - ALL EXISTING AND PROPOSED TREES WITHIN LIMITS OF DISTURBANCE AND NOT CONTAINED WITHIN A MULCHED BED ARE TO RECEIVE A 5' DIAMETER CIRCLE OF MULCH.
 - AREAS UNDER EXISTING TREE DRILINES ARE NOT TO BE TILLED.
 - ALL PLANT LOCATIONS TO BE APPROVED BY EQUINOX PRIOR TO INSTALLATION.
 - PLANTS TO BE PLANTED IN NATURALIZED DRIFTS, IN TRIANGULATED PATTERNS TO BLEND INTO NATURAL SETTINGS. TYPICALLY TREES AND SHRUBS CAN BE PLANTED ON 10' O.C. (ON CENTERS, TYP.) PLANTS TO BE PLANTED IN GROUPS OF 1, 3, 5, 7, 9, AND 11, TYPICAL.
 - PLANTINGS CAN BE A VARIETY OF TREE AND SHRUB MATERIALS, INCLUDING CONTAINERS AND BALL & BURLAP - SEE PLANTING DETAILS FOR INSTALLATION PROCEDURES.
- STONE & ROCK:**
- IF EXISTING STONE AND ROCK MATERIAL ON SITE IS SUITABLE AND EQUIVALENT TO THE MATERIAL SPECIFIED, CONTRACTOR MAY UTILIZE ON SITE MATERIAL INSTEAD OF QUARRY MATERIAL WITH PRIOR APPROVAL REQUIRED BY LANDSCAPE ARCHITECT.
 - SAMPLES OF EACH TYPE OF ROCK, INCLUDING RIVER ROCK, BOULDERS, AND FIELDSTONE ARE TO BE APPROVED ON SITE BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
 - RIVER ROCK TO BE MIXED SIZES UNLESS OTHERWISE SPECIFIED. AVERAGE SIZE: 2"-4" (SMALL); 6"-8" (MEDIUM); AND 10"-12" (LARGE) / NOTIFY LANDSCAPE ARCHITECT IF PRODUCTS VARY FROM THIS SIZE RANGE.
- EC2.0 Erosion Control Details**
- MAINTENANCE: PRUNE UP TREES FOR CLEARANCE AT 6'0" TYPICAL.
 - IF THERE IS A DISCREPANCY BETWEEN THE QUANTITY OF PLANTS SHOWN ON THE PLAN AND THE QUANTITIES IN THE PLANT SCHEDULE USE THE HIGHER NUMBER OF PLANTS. IF THIS OCCURS NOTIFY THE PROJECT LANDSCAPE ARCHITECT, EQUINOX.
- UNIVERSAL ACCESS TRAIL GUIDELINES:**
- ADA ACCESS PATHS
 - CLEAR TREAD WIDTH: 60 INCH MINIMUM
 - CROSS SLOPE: NO MORE THAN 1.9%
 - RUNNING SLOPE (TRAIL GRADE) MEETS ONE OR MORE OF THE FOLLOWING:
 - 5% OR LESS FOR ANY DISTANCE.
 - UP TO 8.33% FOR 80' MAX. RESTING INTERVALS NO MORE THAN 50' APART.
 - NO MORE THAN 30% OF THE TOTAL TRAIL LENGTH MAY EXCEED A RUNNING SLOPE OF 1:12.
 - SIGNS: SHALL BE PROVIDED INDICATING THE LENGTH OF THE ACCESSIBLE TRAIL SEGMENT.
 - THE MAXIMUM SLOPE OF A RAMP IS 1:12, THE MAXIMUM RISE FOR ANY RUN IS 30 INCHES, AND THE MINIMUM CLEAR WIDTH OF A RAMP IS 36 INCHES.
 - LEVEL LANDINGS ARE ALSO REQUIRED AT TOP AND BOTTOM OF EACH RAMP RUN.
 - NATURAL SURFACE TRAILS:
 - SEE SHEET L8.1 FOR DETAILED AND COMPREHENSIVE NOTES AND GUIDELINES.
- GENERAL ADA GUIDELINES:**
- HANDRAILS ARE REQUIRED ON RAMPS THAT RISE MORE THAN 6 INCHES OR ARE LONGER THAN 72 INCHES. HANDRAILS MUST BE BETWEEN 34 INCHES AND 38 INCHES ABOVE THE WALKING SURFACE AND BE EASY TO GRIP.
 - HANDRAILS REQUIRED ON ALL STAIRS THAT EXCEED 3 RISERS.
 - SEE DETAIL 5 ON SHEET L8.2 FOR HANDRAIL
- EROSION CONTROL MEASURES:**
- THOROUGHLY REVIEW THE SEDIMENT AND EROSION CONTROL PLAN.
 - CONTRACTOR TO FINE GRADE AND ADD EROSION CONTROL MATTING AND NATURAL SITE DEBRIS AT ACCESS AREAS USED BY GEOTECHNICAL ENGINEERS FOR BORING SITES.
 - STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN FOURTEEN (14) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
 - WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
 - WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, AND EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
 - ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITTEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION. IF THIS OCCURS, NOTIFY LANDSCAPE ARCHITECT.
 - PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
 - ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
 - THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED.
 - TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS. THESE TEMPORARY BERMS AND DITCHES SHALL BE PROTECTED WITH A ROLLED EROSION AND SEDIMENT CONTROL PRODUCT UNTIL VEGETATION CAN BE ESTABLISHED.
- ALL WATERS OF THE STATE (WOS), INCLUDING WETLANDS, ARE TO BE FLAGGED OR OTHERWISE CLEARLY MARKED IN THE FIELD. A DOUBLE ROW OF SILT FENCE IS TO BE INSTALLED IN ALL AREAS WHERE A 50-FOOT BUFFER CAN'T BE MAINTAINED BETWEEN THE DISTURBED AREA AND ALL WOS. A 10-FOOT BUFFER SHOULD BE MAINTAINED BETWEEN THE LAST ROW OF SILT FENCE AND ALL WOS.
- LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
- A COPY OF THE INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
- INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
- MINIMIZE SOIL COMPACTION AND, UNLESS UNFEASIBLE, PRESERVE TOPSOIL.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
- MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMP'S (SEDIMENT BASIN, FILTER BAG, ETC).
- MAINTAIN ALL BUFFER REQUIREMENTS AS INDICATED ON THE PLAN.
- THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
- WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
 - WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS;
 - FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
 - SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
- AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS ARE EXPECTED TO BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

14 O'Henry Ave.
Suite 206
Asheville, NC 28801
t 828.253.6856
f 828.253.8256

SEAL

NOTE: Drawings are invalid without signed stamp by professional

DESIGN BY: DRAWN BY: CHECKED BY:

| DATE | REVISIONS |
|------|-----------|
| | |
| | |
| | |
| | |
| | |
| | |

Jackson County
QUALLA WHITTIER PARK
Sunset Farms Rd.
Whittier, NC 28789

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PHASE
BID SET

DATE
August 21, 2024

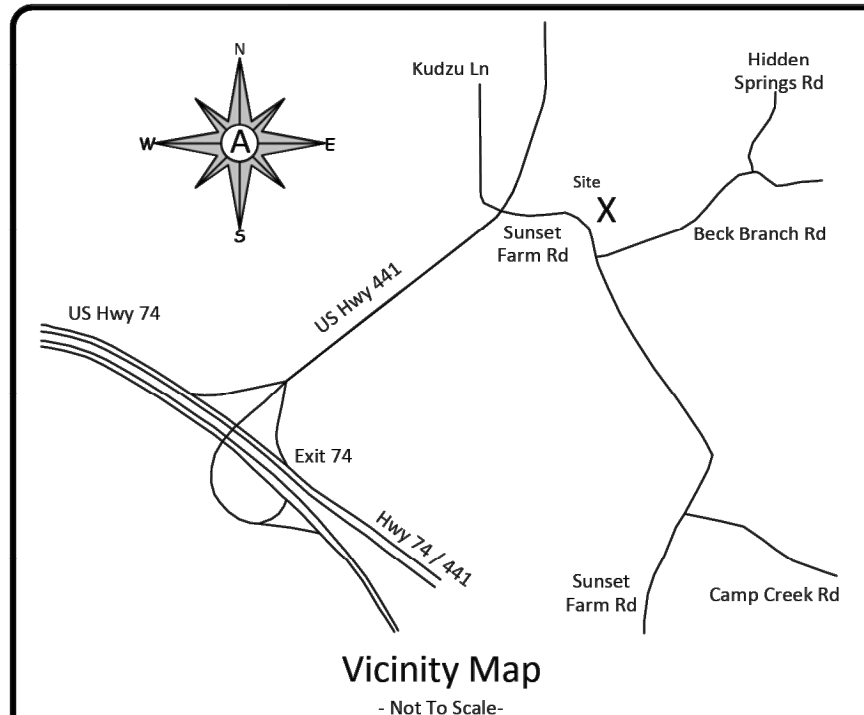
DRAWING SCALE
AS SHOWN

NOTE: If this drawing is not 24x36" it has been revised from its original size and the scales noted on drawings/details are no longer applicable.

DRAWING NAME
INDEX & NOTES

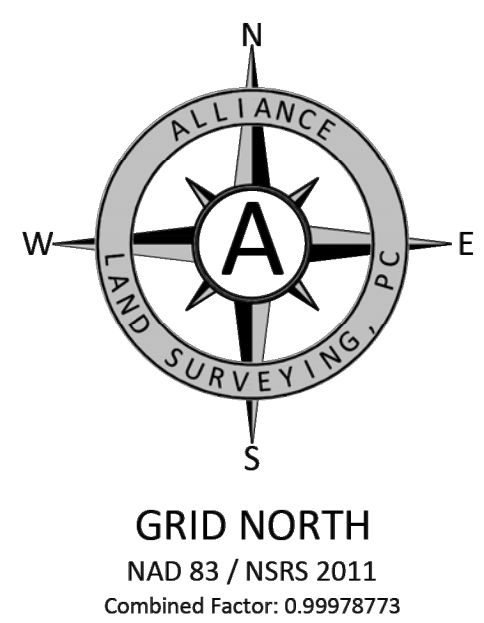
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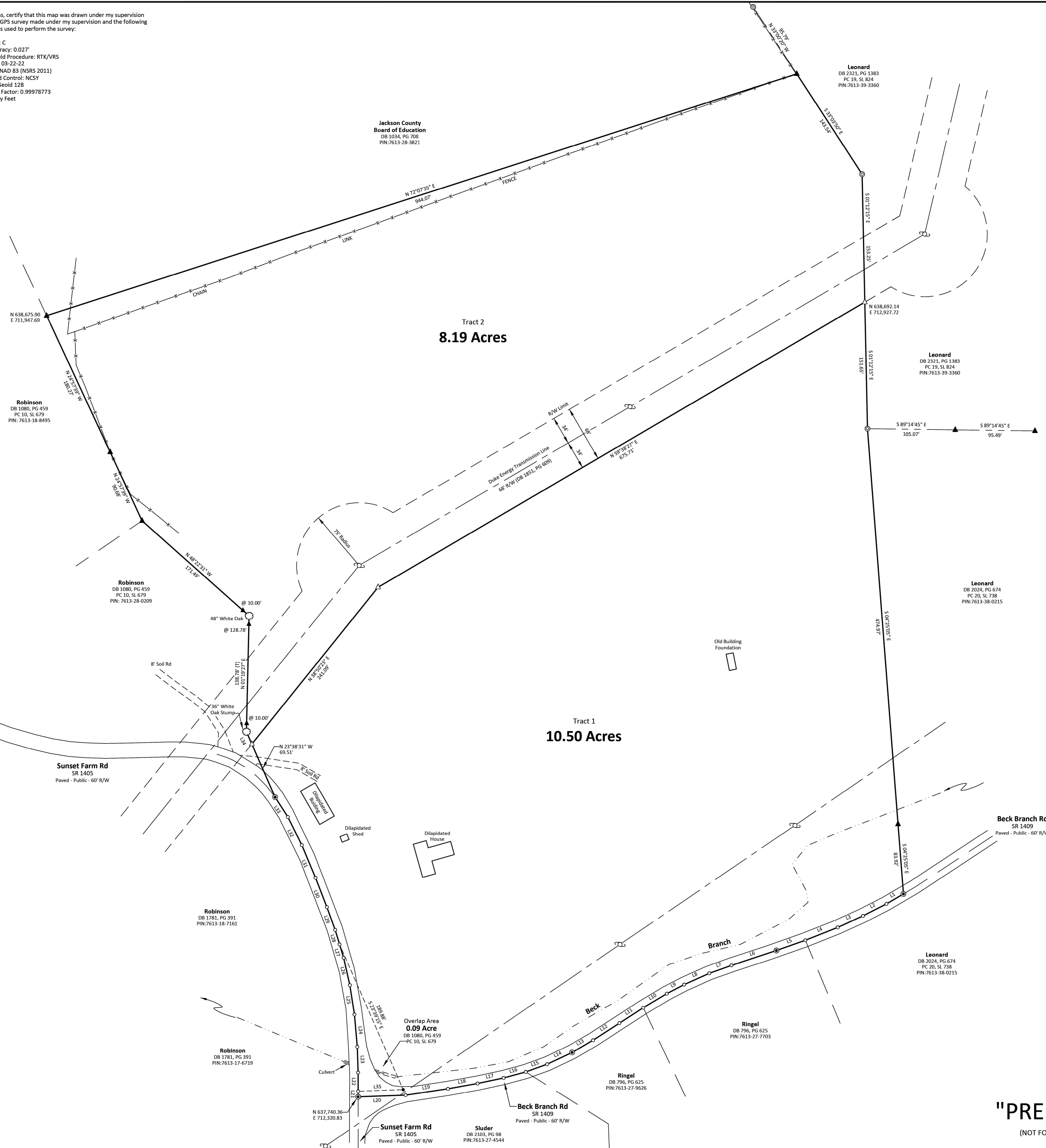


I, James Watkins, certify that this map was drawn under my supervision from an actual GPS survey made under my supervision and the following information was used to perform the survey:

Class of Survey: C
 Positional Accuracy: 0.027'
 Type of GPS Field Procedure: RTK/VRS
 Date of Survey: 03-22-22
 Datum/Epoch: NAD 83 (NSRS 2011)
 Published/Fixed Control: NCSY
 Geoid Model: Geoid 12B
 Combined Grid Factor: 0.99978773
 Units: US Survey Feet



- LEGEND**
- Monument (F)
 - Mag Nail (F)
 - ▲ 5/8" Rebar (F)
 - △ 5/8" Rebar (S)
 - 3/4" Iron Pipe (F)
 - Point (Not Set)
 - Cotton Gin Spike (F)
 - Power Pole
 - Survey Line
 - Power Line
 - Tie Line
 - Deed Line
 - x-x- Fence
 - - - Creek/Branch
 - C/L Centerline
 - N/F Now or Formerly
 - DB Deed Book
 - PG Page
 - (S) Set (F) Found (T) Total
 - PC Plat Cabinet SL Slide
 - R/W Right of Way



| LINE | BEARING | DISTANCE |
|------|---------------|----------|
| L1 | S 59°37'17" W | 23.50' |
| L2 | S 62°54'50" W | 31.62' |
| L3 | S 65°26'18" W | 33.24' |
| L4 | S 68°22'13" W | 41.16' |
| L5 | S 70°32'43" W | 36.70' |
| L6 | S 71°38'29" W | 56.76' |
| L7 | S 70°20'53" W | 28.14' |
| L8 | S 65°51'51" W | 33.00' |
| L9 | S 62°32'05" W | 23.39' |
| L10 | S 59°12'33" W | 33.02' |
| L11 | S 56°59'16" W | 34.00' |
| L12 | S 57°06'56" W | 37.59' |
| L13 | S 59°41'08" W | 29.08' |
| L14 | S 64°45'07" W | 32.90' |
| L15 | S 70°08'00" W | 27.40' |
| L16 | S 74°51'14" W | 27.43' |
| L17 | S 77°57'29" W | 31.83' |
| L18 | S 79°51'42" W | 36.00' |
| L19 | S 81°26'33" W | 51.33' |
| L20 | S 88°03'33" W | 56.87' |
| L21 | N 00°00'21" W | 6.58' |
| L22 | N 00°00'21" W | 22.42' |
| L23 | N 01°59'31" W | 30.82' |
| L24 | N 04°38'32" W | 38.83' |
| L25 | N 06°53'04" W | 35.61' |
| L26 | N 12°47'33" W | 33.83' |
| L27 | N 16°55'39" W | 16.54' |
| L28 | N 18°55'39" W | 18.15' |
| L29 | N 19°50'23" W | 29.09' |
| L30 | N 21°13'26" W | 37.61' |
| L31 | N 22°49'46" W | 42.43' |
| L32 | N 29°28'10" W | 37.61' |
| L33 | N 32°45'59" W | 28.25' |
| L34 | N 23°38'31" W | 16.12' |
| L35 | S 87°55'06" W | 53.97' |

Recombination Survey Prepared For:
Jackson County
 Reference Deed Book 1847, Page 541; Plat Cabinet 18, SL 541
 Current Owner: Thomas O. Reese, Jr and Linda R. Evans

Township: Qualla
 County: Jackson
 Survey Date: 03/22/2022
 Field Crew: JMW, JWW, JWW
 Property Address: Sunset Farm Rd, Whittier, NC
 PIN: 7613-28-5345, 7613-28-7554

SCALE IN FEET: 1" = 60'

NOTES:

- Survey is based on deed and existing measurements as shown.
- Parcel may be subject to easements, rights-of-way, reservations and restrictions written and unwritten; recorded and unrecorded.
- Measurements shown hereon are not a verification of title, zoning or freedom from encumbrances.
- This survey was prepared without benefit of abstract title and all matters of title should be determined by title insurance.
- All distances are NC GRID unless otherwise noted. (US Survey Feet)
- Property has not been inspected for wetlands or flood hazards.
- Information shown hereon is for informational purposes only. Information of a current or up to date.
- Area is calculated using Coordinate Computations.

I, _____ Review Officer of Jackson County, certify that the map or plat to which this certification is affixed meets all statutory requirements for recording.

Review Officer _____
 Date _____

North Carolina, Jackson County the foregoing certificate of James Watkins, PLS is certified to be correct. This instrument was presented and recorded in this office on Plat Cab. _____ Slide _____ this _____ day of _____ 20____ at _____ o'clock _____ m

Jackson County Register of Deeds _____

Certificate of Approval for Recording

I certify that the plat shown hereon complies with the Subdivision & Mountain and Hillside Development Ordinance and is approved for recording in the Register of Deeds Office.

Date _____ Planning Director or Designee _____

This property is not located within a public watershed and can be recorded in the Jackson County Register of Deeds.

Watershed Administrator _____ Date _____

"PRELIMINARY PLAT"
 (NOT FOR RECORDATION, CONVEYANCES, OR SALES)

G.S. 47-30 (f) (1) (i). This survey creates a subdivision of land within the area of a county or municipality that has an ordinance that regulates parcels of land.

G.S. 47-30 (f) (1) (ii). This survey is located in a portion of a county or municipality that is unregulated as to an ordinance that regulates parcels of land.

G.S. 47-30 (f) (1) (iii). This survey is of a existing street or parcel of land and does not create a new street or change an existing street.

G.S. 47-30 (f) (1) (iv). This survey is of a parcel of land that is the recombination of existing parcels, a survey ordered survey, or other exception to the definition of subdivision.

Prepared By:
ALLIANCE LAND SURVEYING, P.C.
 1000 US Hwy 441 S
 Sylva, NC 28788
 James M. Watkins, PLS L-4757
 Corporate# C-3302

MN
 1/2017/50'
 1/20 IN (NE) 8" DIP: 2012/50'
 1/20 OUT (NW) 8" DIP: 2012/50'



Survey Report

12/8/2022

RE: Whittier Feature Survey

The below certification statement is intended to be permanently attached to and accompany the digital file data deliverable for the survey services performed on November 18th 2022. This statement ensures the care and accuracy standards of the state of North Carolina 21 NCAC 56.1606 were met.

I, Marshall Wight, certify that the data represented in the digital files provided were created via a WithersRavenel (WR) GNSS survey, completed under my supervision. Project deliverables consist of a Cad format .dwg and a point file. The following information details the control survey:

- (1) Class of survey: Class A Horizontal, Class C Vertical
- (2) Positional accuracy: -0.07'
- (3) Type of GPS field procedure: Redundant VRS NC GNSS RTN Observations and RTK base
- (4) Dates of survey: 11/18/22
- (5) Datum/Epoch: NAD83(2011) Horizontal, NAVD88 Vertical
- (6) Published/Fixed control use: VRS NETWORK @ Nail #1
- (7) Geoid model: Geoid 18
- (8) Combined grid factor: 0.999787480
- (9) Units: US Survey Foot
- (10)

WR Control Nail #1 was shot twice at 300 epochs on VRS network and used a RTK base point for site collection. 4 existing property corners were located and coordinates scaled to ground @ grid to ground CGF:1.000212565, from Nail #1 base, all point were then adjust horizontally to a previous survey of the property corners from a .dwg provided by client. Property corner ties checked to -0.10'. No vertical datum or benchmarks were provided and elevation were kept in NAVD 88.

Control points used:

| Point | Northing | Easting | Elevation | Description |
|-------|------------|------------|-----------|-------------|
| 1 | 638208.047 | 712483.355 | 1970.63 | NAIL |
| 20002 | 638350.675 | 712344.649 | 1988.25 | RBF 1000 |
| 20003 | 637983.273 | 712974.056 | 1921.92 | MNF 1002 |
| 20004 | 637793.380 | 712577.104 | 1905.44 | MNF 1003 |
| 20005 | 638162.854 | 712193.426 | 1919.73 | RBF 1004 |

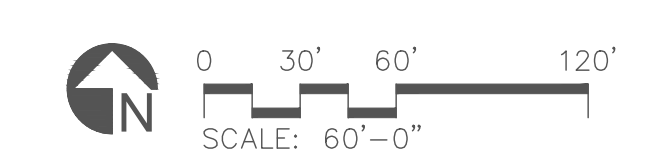
Field crews located the stream North of Beck Branch Road, the dilapidated house, old foundations, rock wall along the drive and the treeline on the property below the power line easement.

I, Marshall Wight, certify that this project was completed under my direct and responsible charge from an actual survey made under my supervision; that this bathymetric sonar survey was performed at the 25 percent confidence level to meet Federal Geographic Data Committee Standards; that this survey was performed to meet the requirements for a topographic/planimetric survey to the accuracy of Class A and vertical accuracy when applicable to the Class C standard, and that the original data was obtained on 11/18/22 that the survey was completed on 11/18/22; and all coordinates are based on NAD 83(2011) adjusted to site control and all elevations are based on NAVD 88.

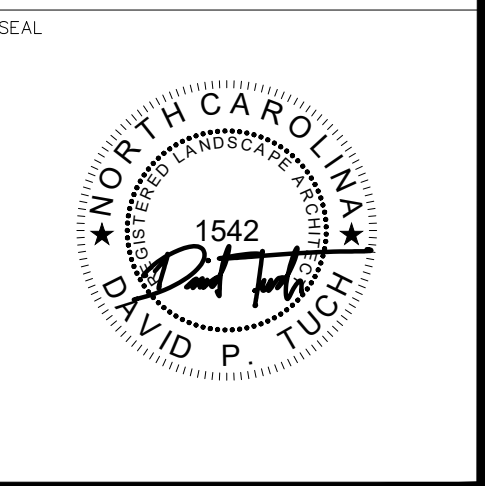
12/8/2022
 Marshall Wight
 82C73F4418864C1
 Marshall Wight, PLS L-5034



| | | |
|---|---|---|
| Whittier Survey Whittier Jackson County NC | Survey Report Existing Condition Survey Project # 08221054.00 | WithersRavenel Engineers Planners Surveyors 133 Hargett Street, Suite 200 Charlotte, NC 28203 Tel: 704.375.1000 www.withersravenel.com |
|---|---|---|



14 O'Henry Ave.
 Suite 206
 Asheville, NC 28801
 t 828.253.6856
 f 828.253.8256



| DESIGN BY: | DRAWN BY: | CHECKED BY: |
|------------|-----------|-------------|
| | | |
| DATE | | |
| | | |
| REVISIONS | | |
| | | |

Jackson County
QUALLA WHITTIER PARK
 Sunset Farms Rd.
 Whittier, NC 28789

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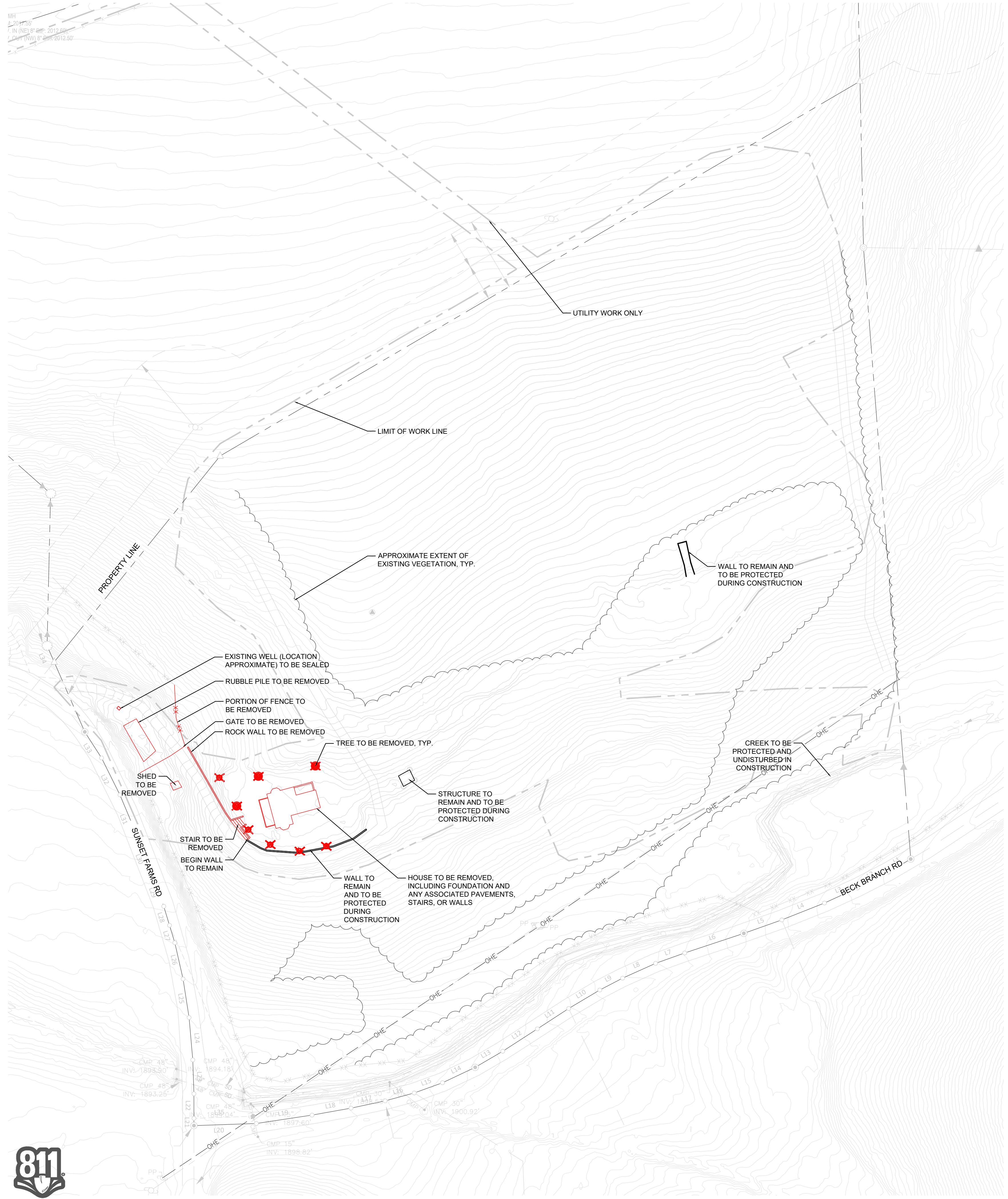
PHASE
BID SET

DATE
August 21, 2024

DRAWING SCALE
AS SHOWN
 NOTE: If this drawing is not 24x36" it has been revised from its original size and the scales noted on drawings/details are no longer applicable.

DRAWING NAME
WITHERSRAVENEL SURVEY

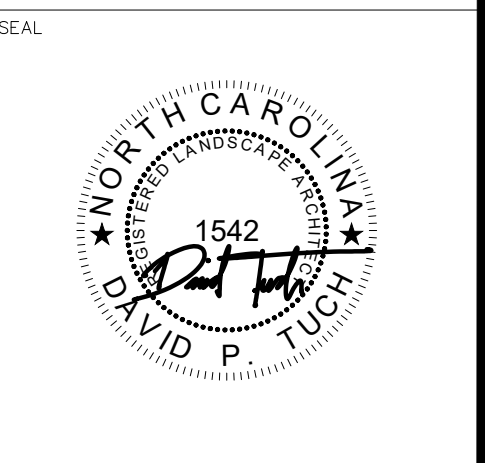
0.2.2



- NOTE:
- UTILITY REMOVAL TO BE COORDINATED BETWEEN CONTRACTOR AND UTILITY PROVIDER. ENGINEERING SHEETS TO CONTAIN MORE DETAIL IN FUTURE PHASE.
 - SEE GRADING PLANS FOR GRADING INFORMATION.
 - TREE PROTECTION TO BE ESTABLISHED FOR ALL TREES ADJACENT TO GRADING EXTENTS.
 - NOT ALL TREES ON SITE HAVE BEEN SURVEYED. UNLESS BEING GRADED THROUGH OR MARKED FOR REMOVAL, ALL TREES ARE TO BE PROTECTED AND MAINTAINED. ALL TREES TO BE DEMOLISHED ARE INDICATED WITH **X**
 - BRAMBLES AND OTHER NON-NATIVE INVASIVES TO BE REMOVED FROM PROJECT AREA WITHIN GRADING OR PLANTING EXTENTS. LOCATIONS OF THESE PLANTS TO BE IDENTIFIED IN THE FIELD.

LEGEND

| | |
|--|--------------------------------------|
| | PROPERTY LINE |
| | EXISTING CONTOURS (1FT) |
| | EDGE OF EXISTING VEGETATION (APPROX) |
| | EXISTING FENCE TO REMAIN |
| | EXISTING UTILITY TO REMAIN |
| | SITE FEATURE TO BE DEMOLISHED |



| | | |
|------------|-----------|-------------|
| DESIGN BY: | DRAWN BY: | CHECKED BY: |
| DATE | | |
| REVISIONS | | |

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PHASE
BID SET

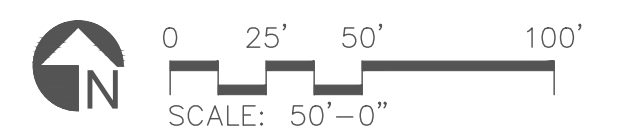
DATE
August 21, 2024

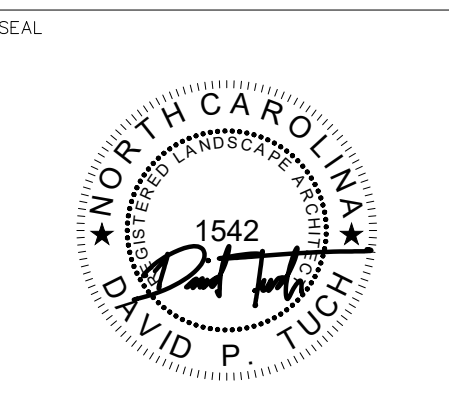
DRAWING SCALE
AS SHOWN

NOTE: If this drawing is not 24x36" it has been revised from its original size and the scales noted on drawings/details are no longer applicable.

DRAWING NAME
SITE PREPARATION

L2.0





DESIGN BY: DRAWN BY: CHECKED BY:

| DATE | REVISIONS |
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PHASE: **BID SET**

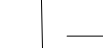




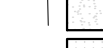




DATE: **August 21, 2024**

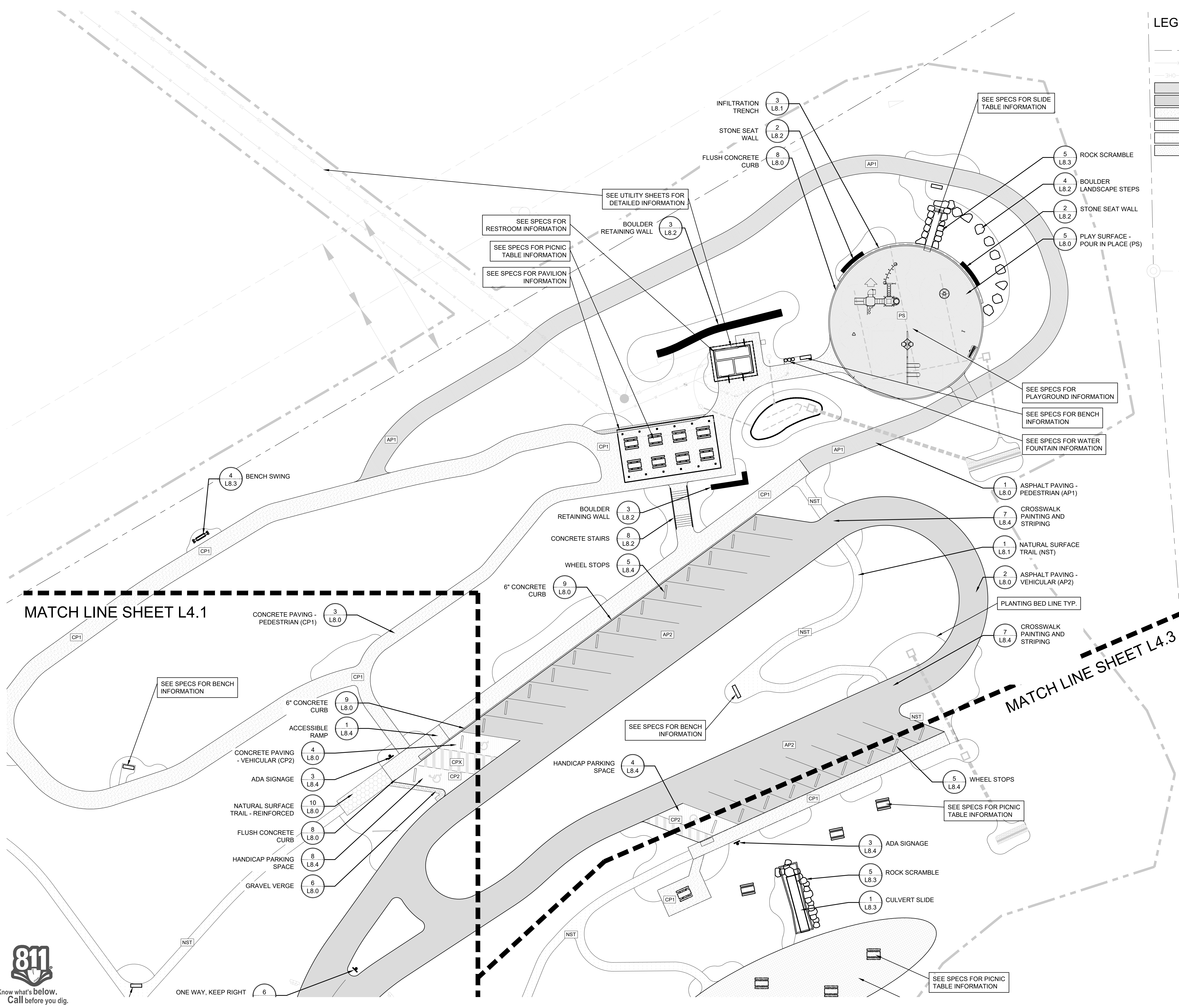
DRAWING SCALE: **AS SHOWN**
NOTE: If this drawing is not 24x36" it has been revised from its original size and the scales noted on drawings/details are no longer applicable.

DRAWING NAME: **MATERIALS PLAN ENLARGEMENT**

L4.2

LEGEND

-  PROPERTY LINE
-  EXISTING FENCE TO REMAIN
-  EXISTING UTILITY TO REMAIN
-  ASPHALT PAVING (PEDESTRIAN)
-  ASPHALT PAVING (VEHICULAR)
-  CONCRETE PAVING (PEDESTRIAN)
-  CONCRETE PAVING (VEHICULAR)
-  NATURAL SURFACE TRAIL
-  EXISTING SURFACE TO BE MAINTAINED FOR REGULAR ACCESS AND GATHERING
-  MUTCD SIGNAGE



LEGEND

- EXISTING TOPO
- PROPOSED TOPO
- - - WETTED PERIMETER
- PIPE
- UNDERDRAIN
- ENERGY DISSIPATOR
- ▲ SWALE
- PERMANENT SWALE CHECK

| CONVEYANCE ID | TYPE | LENGTH (FT.) | INVERT IN | INVERT OUT | SLOPE | BOTTOM WIDTH (FT.) | DITCH DEPTH (In.) | CHANNE L LINING | CHECK TREATMENT |
|---------------|-------|--------------|-----------|------------|--------|--------------------|-------------------|-----------------|-----------------|
| A | SWALE | 122 | 1930 | 1914 | 13.1% | 1 | 12 | SC150BN | YES |
| B | SWALE | 41 | 1934 | 1927 | 17.1% | 0.5 | 12 | SC150BN | YES |
| C | SWALE | 167 | 1952 | 1932 | 6%-20% | 1.5 | 12 | SC150BN | YES |
| D | SWALE | 56 | 1944 | 1938 | 10.7% | 1 | 12 | S75BN | |
| E | SWALE | 66 | 1950 | 1945 | 7.6% | 2 | 12 | S75BN | |
| F | SWALE | 184 | 1971 | 1952 | 10.3% | 1.5 | 12 | SC150BN | YES |
| G | SWALE | 157 | 1967 | 1952 | 9.6% | 1.5 | 12 | SC150BN | YES |
| H | SWALE | 211 | 1964 | 1947 | 8.1% | 1 | 6 | S75BN | |
| I | SWALE | 87 | 1967.5 | 1964.5 | 3.4% | 1 | 6 | NA | |
| J | SWALE | 89 | 1975 | 1967 | 9.0% | 2 | 6 | S75BN | |
| K | SWALE | 102 | 1964.75 | 1962.75 | 2.0% | 2 | 6 | NA | |

NOTE: SIDE SLOPES NO STEEPER THAN 3:1
REFER TO PLANTING PLAN FOR SURFACE TREATMENT

| PIPE ID | TYPE | INV IN | INV OUT | LENGTH (FT) | SIZE (In.) |
|---------|---------------|---------|---------|-------------|------------|
| PIPE 1 | HDPE (smooth) | 1911.50 | 1911.00 | 43 | 24 |
| PIPE 2 | HDPE (smooth) | 1925.00 | 1922.00 | 38 | 15 |
| PIPE 3 | HDPE (smooth) | 1919.00 | 1911.00 | 38 | 15 |
| PIPE 4 | HDPE (smooth) | 1940.50 | 1940.00 | 27 | 18 |
| PIPE 5 | HDPE (smooth) | 1950.50 | 1950.20 | 28 | 15 |
| PIPE 6 | HDPE (smooth) | 1950.10 | 1949.60 | 55 | 15 |
| PIPE 7 | HDPE (smooth) | 1946.00 | 1943.50 | 28 | 15 |
| PIPE 8 | HDPE (smooth) | 1981.25 | 1981.00 | 21 | 6 |
| PIPE 9 | HDPE (smooth) | 1982.00 | 1981.50 | 19 | 6 |
| PIPE 10 | HDPE (smooth) | 1977.85 | 1977.10 | 74 | 15 |
| PIPE 11 | HDPE (smooth) | 1979.00 | 1978.00 | 35 | 15 |
| PIPE 12 | HDPE (smooth) | 1961.00 | 1960.00 | 49 | 15 |
| PIPE 13 | HDPE (smooth) | 1958.20 | 1957.20 | 26 | 15 |

| SCM ID | TYPE | TREATMET DEPTH (In.) | OUTFALL ELEVATION | STORAGE VOLUME (CF) | MAX SIDE SLOPES | DETAILS |
|--------|--------------|----------------------|-------------------|---------------------|-----------------|---------|
| SCM 1 | BIORETENTION | 12 | 1943.25 | 1,818 | 3:1 | 4/L8.3 |
| SCM 2 | BIORETENTION | 12 | 1981.50 | 795 | 3:1 | 4/L8.3 |

| STRUCTURE ID | TYPE | TOP TREATMENT | RIM ELEV. | DETAIL | NOTES |
|--------------|----------------|-------------------------|-----------|--------|------------------|
| DI 1 | CONCRETE BOX | OPEN THROAT, FOUR SIDES | 1931.90 | 3/L8.5 | |
| DI 2 | CONCRETE BOX | OPEN THROAT, FOUR SIDES | 1925.90 | 3/L8.5 | |
| DI 3 | CONCRETE BOX | OPEN THROAT, FOUR SIDES | 1943.20 | 3/L8.5 | ANTI-SEEP COLLAR |
| DI 4 | CONCRETE BOX | OPEN THROAT, FOUR SIDES | 1952.00 | 3/L8.5 | |
| DI 5 | CONCRETE BOX | OPEN THROAT, FOUR SIDES | 1952.30 | 3/L8.5 | |
| DI 6 | CONCRETE BOX | OPEN THROAT, FOUR SIDES | 1981.00 | 3/L8.5 | ANTI-SEEP COLLAR |
| DI 7 | CONCRETE BOX | OPEN THROAT, FOUR SIDES | 1984.20 | 3/L8.5 | |
| DI 8 | CONCRETE BOX | OPEN THROAT, FOUR SIDES | 1965.80 | 3/L8.5 | |
| DI 9 | CONCRETE BOX | OPEN THROAT, FOUR SIDES | 1962.80 | 3/L8.5 | |
| AD 1 | AREA CATCHMENT | METAL GRATE | 1981.90 | NA | |
| AD 2 | AREA CATCHMENT | METAL GRATE | 1983.20 | NA | |
| W 1 | CONCRETE WEIR | WEIR NOTCH | 1971.50 | 6/L8.5 | |
| LS 1 | LEVEL SPREADER | SMOOTH CONCRETE | 1942.00 | 7/L8.5 | LENGTH TO BE 15' |
| LS 2 | LEVEL SPREADER | SMOOTH CONCRETE | 1977.00 | 7/L8.5 | LENGTH TO BE 25' |
| LS 3 | LEVEL SPREADER | SMOOTH CONCRETE | 1956.20 | 7/L8.5 | LENGTH TO BE 15' |



DESCRIPTION OF THE STORMWATER SYSTEMS

BIORETENTION

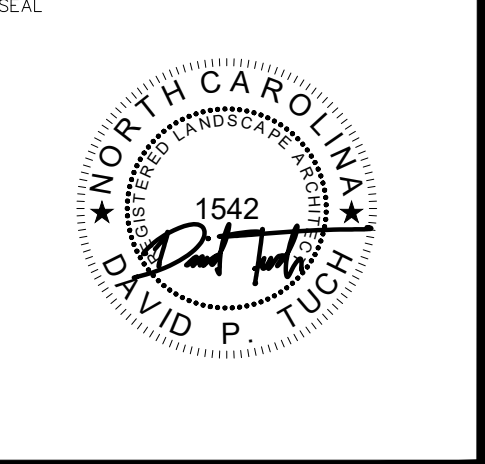
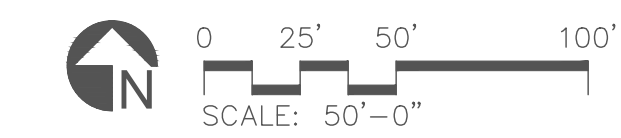
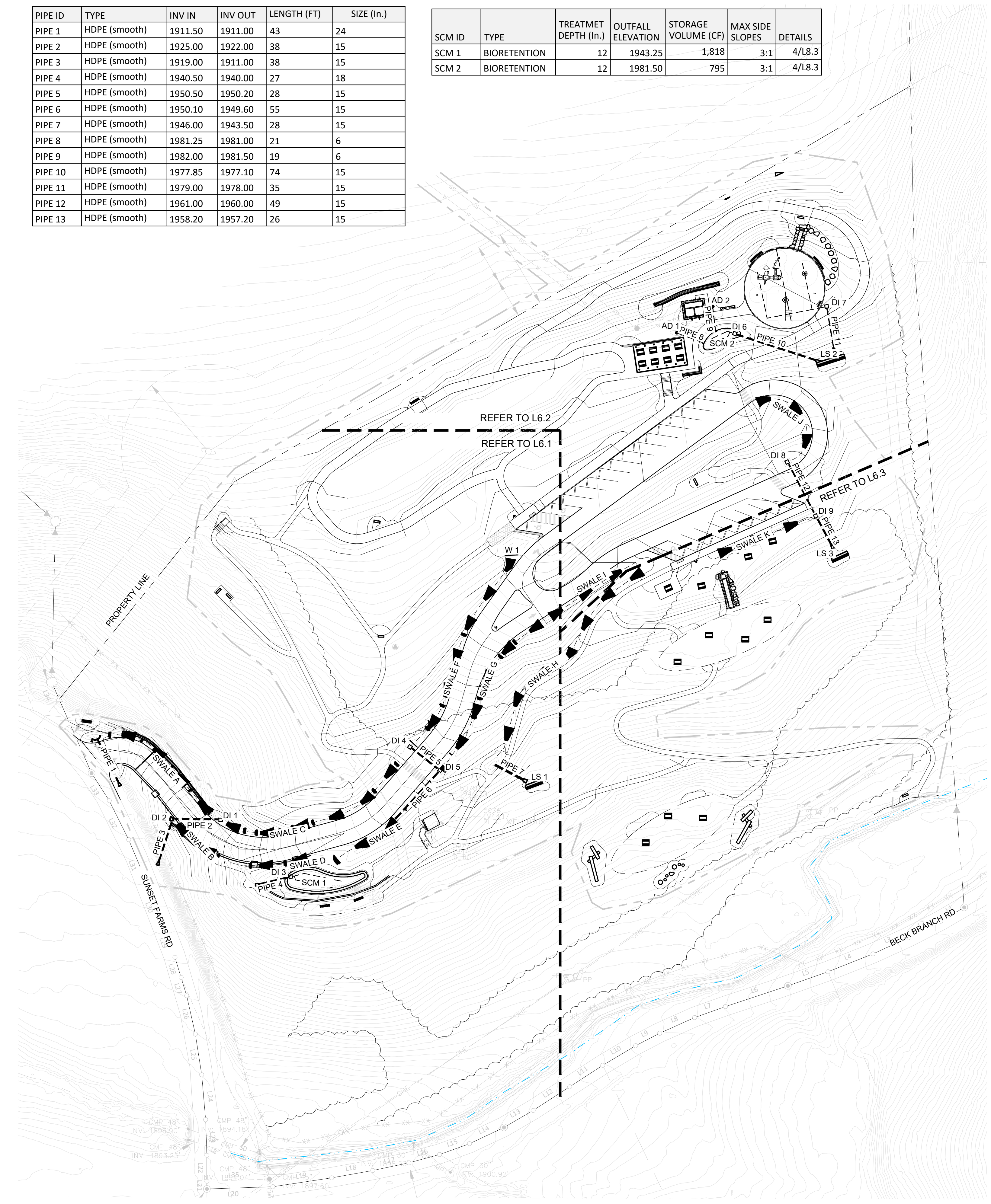
- THIS PROJECT UTILIZES TWO BIORETENTION CELLS.
- BIORETENTION IS DESIGNED TO FILTER WATER THROUGH BIORETENTION MEDIA BEFORE EXITING THE SYSTEM THROUGH UNDERDRAINS.
- THE MOST COMMON FAILURE POINTS OF BIORETENTION IS WATER BYPASSING FILTRATION BY RUNNING DOWN ALONG THE DROP INLET AND FOLLOWING THE OUTFALL PIPE (ON THE OUTSIDE). THIS IS AVOIDED THROUGH THE USE OF AN ANTI-SEEP COLLAR AND PROPER COMPACTION AROUND THE PIPE, DROP INLET AND THE EMBANKMENT OF THE BIORETENTION CELL.

LEVEL SPREADER:

- THIS PROJECT UTILIZES THREE LEVEL SPREADERS.
- LEVEL SPREADERS ARE DESIGNED TO SPREAD WATER EVENLY ACROSS THE CONCRETE SPREADER. THE LEVEL SPREADER IS COMPOSED OF THREE PARTS, THE BLIND SWALE, THE LEVEL SPREADER, AND THE TRANSITION ZONE OR VERGE.
 - THE BLIND SWALE MOVES WATER BEHIND THE LEVEL SPREADER AND ALLOWS WATER TO ACCUMULATE BEHIND THE LEVEL SPREADER SUCH THAT THE WATER WILL TOP THE LEVEL SPREADER FOR THE FULL LENGTH AT ONE TIME.
 - TO ENSURE EVEN SPREAD, THE CONCRETE LEVEL SPREADER SHOULD BE AT THE SAME ELEVATION ALL THE WAY ACROSS. A LOW POINT OR EDGE WILL CAUSE THE WATER TO FUNNEL AND CAN CAUSE SCOUR DOWN HILL.
 - THE VERGE DISSIPATES THE ENERGY OFF OF THE SPREADER AND ALLOWS FOR SOME INFILTRATION.
- THE MOST COMMON FAILURES OF A LEVEL SPREADER ARE SCOUR AROUND THE EDGES OF THE SPREADER AND THE SETTLING OF THE SPREADER CAUSING WATER TO CHANNELIZE. TO AVOID THIS, THE LEVEL SPREADER SHOULD BE EMBEDDED ON EITHER SIDE INTO COMPACTED EARTH AND SET DEEP ENOUGH ON TOP OF COMPACTED EARTH. BE SURE TO COMPACT SUB-BASE TO 98% PROCTOR PRIOR TO PLACING IN THE AGGREGATE BASE COARSE. COMPACT AGGREGATE BASE COARSE (CABC) TO 98% PROCTOR PRIOR TO SETTING CONCRETE FORMS. IF BEDROCK IS HIT WHEN DIGGING FOR FOOTERS, TIE FOOTERS DIRECTLY TO BEDROCK.

GENERAL NOTES

- SEDIMENTATION OF THE STORMWATER CONTROL MEASURES WILL CAUSE FAILURE, THEREFORE, INSTALL ALL STORMWATER CONTROL MEASURES ONLY AFTER ALL SEDIMENT AND EROSION ON-SITE IS CONTROLLED AND SITE IS STABILIZED AND SEEDED.
- ALL SIDE SLOPES SHALL BE 3:1 OR SHALLOWER.
- FOR SWALES RECEIVING CHECK TREATMENT, REFER TO 8/L8.3



| DESIGN BY: | DRAWN BY: | CHECKED BY: |
|------------|-----------|-------------|
| | | |

| DATE | REVISIONS |
|------|-----------|
| | |

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Sunset Farms Rd.
Whittier, NC 28789

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| PHASE |
|---------|
| BID SET |

| DATE |
|-----------------|
| August 21, 2024 |

DRAWING SCALE

AS SHOWN

NOTE: If this drawing is not 24x36" it has been revised from its original size and the scales noted on drawings/details are no longer applicable.

DRAWING NAME

STORMWATER PLAN

L6.0

| CONVEYANCE ID | TYPE | LENGTH (FT.) | INVERT IN | INVERT OUT | SLOPE | BOTTOM WIDTH (FT.) | DITCH DEPTH (In.) | CHANNE L LINING | CHECK TREATMENT |
|---------------|-------|--------------|-----------|------------|--------|--------------------|-------------------|-----------------|-----------------|
| A | SWALE | 122 | 1930 | 1914 | 13.1% | 1 | 12 | SC150BN | YES |
| B | SWALE | 41 | 1934 | 1927 | 17.1% | 0.5 | 12 | SC150BN | YES |
| C | SWALE | 167 | 1952 | 1932 | 6%-20% | 1.5 | 12 | SC150BN | YES |
| D | SWALE | 56 | 1944 | 1938 | 10.7% | 1 | 12 | S75BN | |
| E | SWALE | 66 | 1950 | 1945 | 7.6% | 2 | 12 | S75BN | |
| F | SWALE | 184 | 1971 | 1952 | 10.3% | 1.5 | 12 | SC150BN | YES |
| G | SWALE | 157 | 1967 | 1952 | 9.6% | 1.5 | 12 | SC150BN | YES |
| H | SWALE | 211 | 1964 | 1947 | 8.1% | 1 | 6 | S75BN | |
| I | SWALE | 87 | 1967.5 | 1964.5 | 3.4% | 1 | 6 | NA | |
| J | SWALE | 89 | 1975 | 1967 | 9.0% | 2 | 6 | S75BN | |
| K | SWALE | 102 | 1964.75 | 1962.75 | 2.0% | 2 | 6 | NA | |

NOTE: SIDE SLOPES NO STEEPER THAN 3:1
REFER TO PLANTING PLAN FOR SURFACE TREATMENT. REFER TO 8/L8.5 FOR CHECK DETAIL.

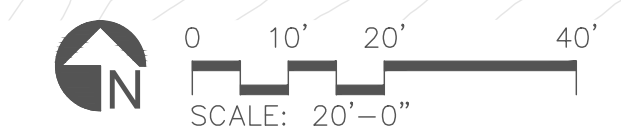
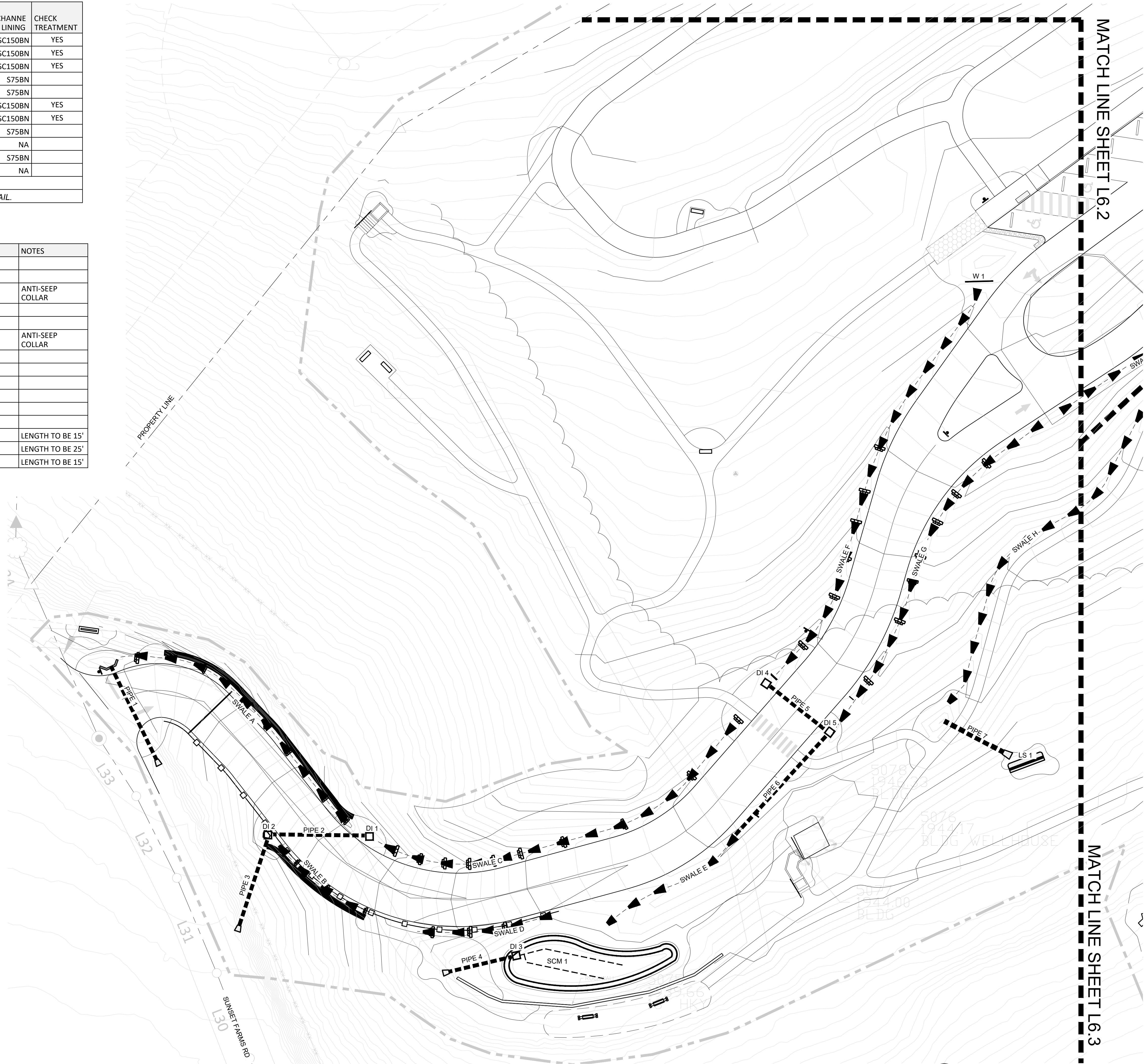
| STRUCTURE ID | TYPE | TOP TREATMENT | RIM ELEV. | DETAIL | NOTES |
|--------------|----------------|-------------------------|-----------|--------|------------------|
| DI 1 | CONCRETE BOX | OPEN THROAT, FOUR SIDES | 1931.90 | 3/L8.5 | |
| DI 2 | CONCRETE BOX | OPEN THROAT, FOUR SIDES | 1925.90 | 3/L8.5 | |
| DI 3 | CONCRETE BOX | OPEN THROAT, FOUR SIDES | 1943.20 | 3/L8.5 | ANTI-SEEP COLLAR |
| DI 4 | CONCRETE BOX | OPEN THROAT, FOUR SIDES | 1952.00 | 3/L8.5 | |
| DI 5 | CONCRETE BOX | OPEN THROAT, FOUR SIDES | 1952.30 | 3/L8.5 | |
| DI 6 | CONCRETE BOX | OPEN THROAT, FOUR SIDES | 1981.00 | 3/L8.5 | ANTI-SEEP COLLAR |
| DI 7 | CONCRETE BOX | OPEN THROAT, FOUR SIDES | 1984.20 | 3/L8.5 | |
| DI 8 | CONCRETE BOX | OPEN THROAT, FOUR SIDES | 1965.80 | 3/L8.5 | |
| DI 9 | CONCRETE BOX | OPEN THROAT, FOUR SIDES | 1962.80 | 3/L8.5 | |
| AD 1 | AREA CATCHMENT | METAL GRATE | 1981.90 | NA | |
| AD 2 | AREA CATCHMENT | METAL GRATE | 1983.20 | NA | |
| W 1 | CONCRETE WEIR | WEIR NOTCH | 1971.50 | 6/L8.5 | |
| LS 1 | LEVEL SPREADER | SMOOTH CONCRETE | 1942.00 | 7/L8.5 | LENGTH TO BE 15' |
| LS 2 | LEVEL SPREADER | SMOOTH CONCRETE | 1977.00 | 7/L8.5 | LENGTH TO BE 25' |
| LS 3 | LEVEL SPREADER | SMOOTH CONCRETE | 1956.20 | 7/L8.5 | LENGTH TO BE 15' |

| PIPE ID | TYPE | INV IN | INV OUT | LENGTH (FT) | SIZE (In.) |
|---------|---------------|---------|---------|-------------|------------|
| PIPE 1 | HDPE (smooth) | 1911.50 | 1911.00 | 43 | 24 |
| PIPE 2 | HDPE (smooth) | 1925.00 | 1922.00 | 38 | 15 |
| PIPE 3 | HDPE (smooth) | 1919.00 | 1911.00 | 38 | 15 |
| PIPE 4 | HDPE (smooth) | 1940.50 | 1940.00 | 27 | 18 |
| PIPE 5 | HDPE (smooth) | 1950.50 | 1950.20 | 28 | 15 |
| PIPE 6 | HDPE (smooth) | 1950.10 | 1949.60 | 55 | 15 |
| PIPE 7 | HDPE (smooth) | 1946.00 | 1943.50 | 28 | 15 |
| PIPE 8 | HDPE (smooth) | 1981.25 | 1981.00 | 21 | 6 |
| PIPE 9 | HDPE (smooth) | 1982.00 | 1981.50 | 19 | 6 |
| PIPE 10 | HDPE (smooth) | 1977.85 | 1977.10 | 74 | 15 |
| PIPE 11 | HDPE (smooth) | 1979.00 | 1978.00 | 35 | 15 |
| PIPE 12 | HDPE (smooth) | 1961.00 | 1960.00 | 49 | 15 |
| PIPE 13 | HDPE (smooth) | 1958.20 | 1957.20 | 26 | 15 |

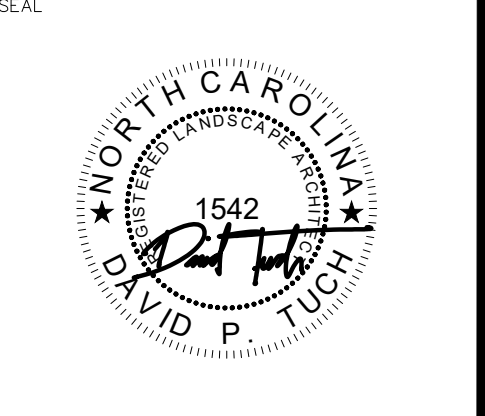
| SCM ID | TYPE | TREATMET DEPTH (In.) | OUTFALL ELEVATION | STORAGE VOLUME (CF) | MAX SIDE SLOPES | DETAILS |
|--------|--------------|----------------------|-------------------|---------------------|-----------------|---------|
| SCM 1 | BIORETENTION | 12 | 1943.25 | 1,818 | 3:1 | 4/L8.3 |
| SCM 2 | BIORETENTION | 12 | 1981.50 | 795 | 3:1 | 4/L8.3 |

LEGEND

- EXISTING TOPO
- PROPOSED TOPO
- - - WETTED PERIMETER
- - - PIPE
- - - UNDERDRAIN
- ⊠ ENERGY DISSIPATOR
- ▲ SWALE
- ⊠ PERMANENT SWALE CHECK



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t 828.253.6856
f 828.253.8256



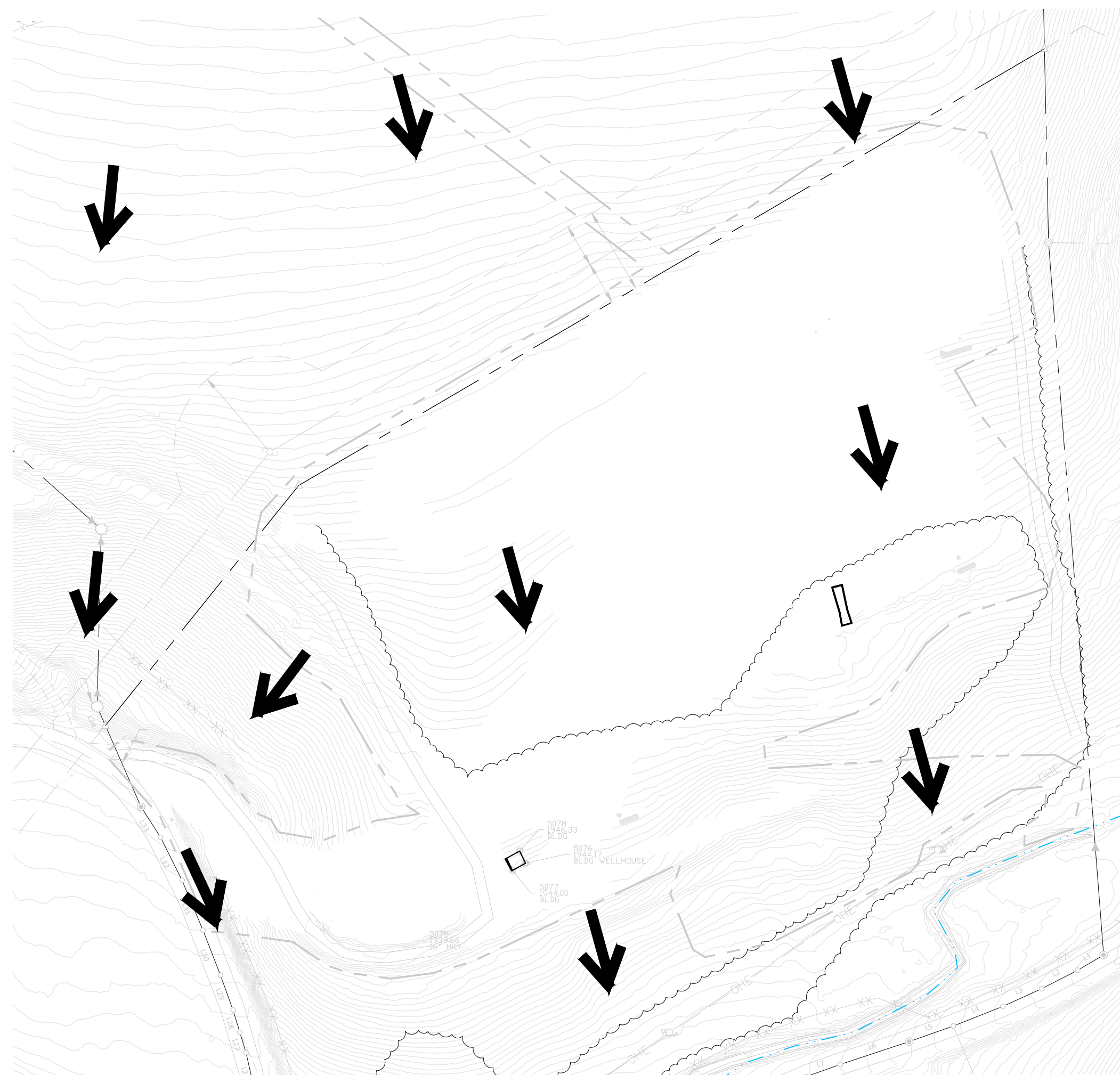
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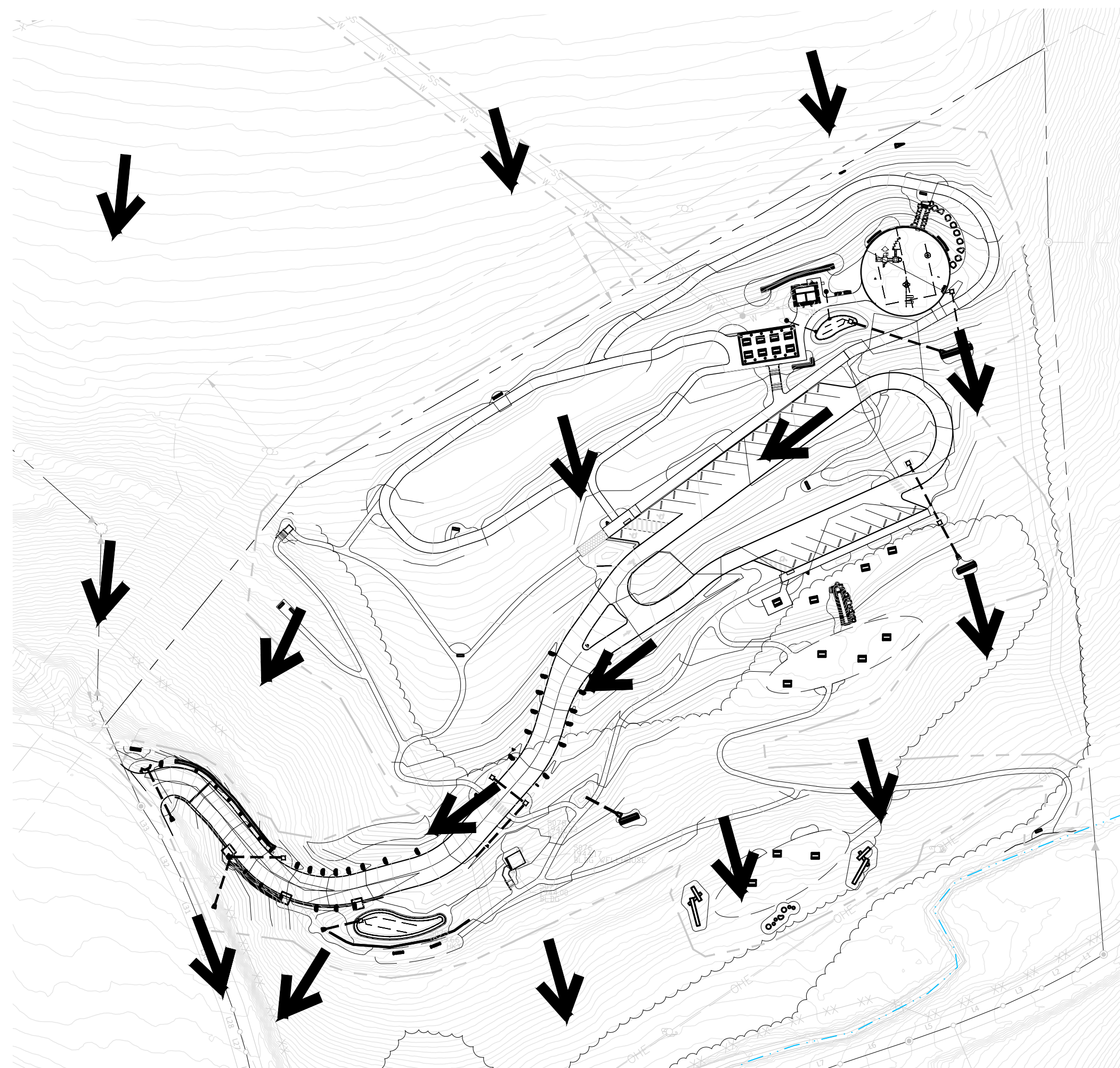
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Whittier, NC 28789

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PHASE: BID SET
DATE: August 21, 2024
DRAWING SCALE: AS SHOWN
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DRAWING NAME: STORMWATER PLAN ENLARGEMENT

L6.1



PRE-DEVELOPMENT FLOW



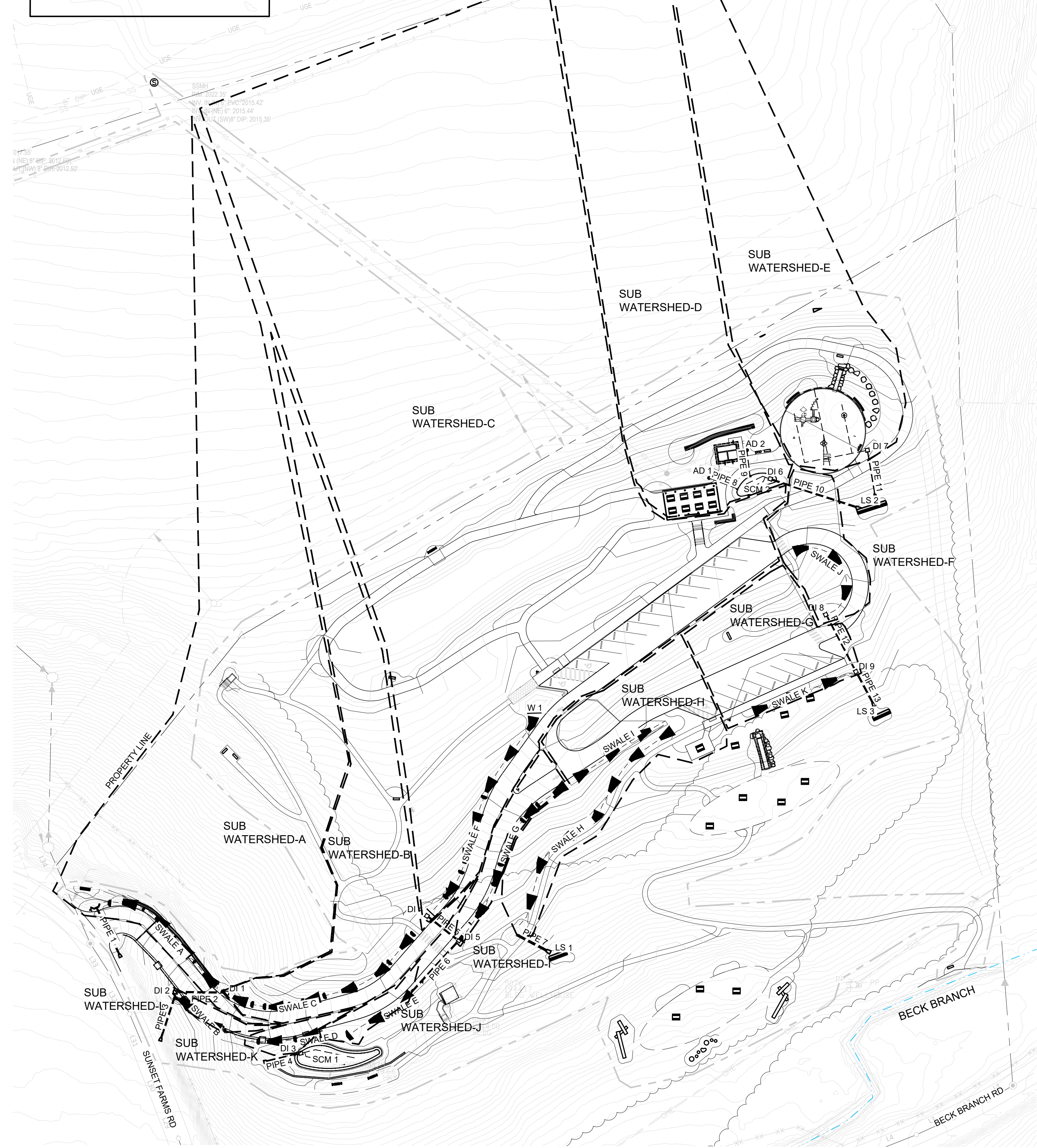
POST-DEVELOPMENT FLOW

LEGEND

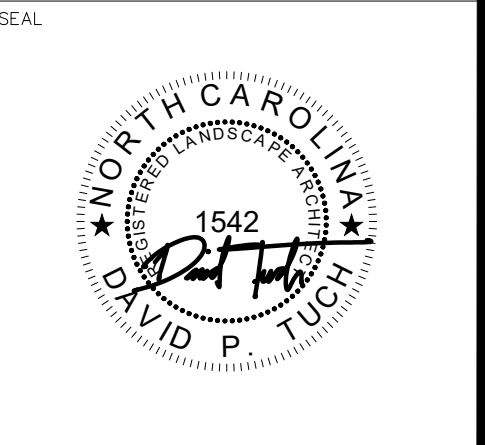
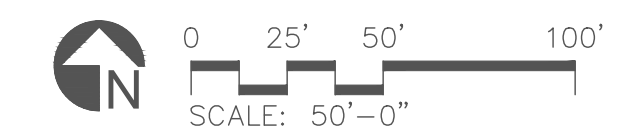
- EXISTING TOPO
- PROPOSED TOPO
- WETTED PERIMETER
- PIPE
- UNDERDRAIN
- ENERGY DISSIPATOR
- SWALE

RECEIVING WATERS: BECK BRANCH
 CLASSIFICATION: C
 RIVER BASIN: LITTLE TENNESSEE

RECEIVING WATERS: BECK BRANCH
 CLASSIFICATION: C
 RIVER BASIN: LITTLE TENNESSEE



DELINEATION MAP



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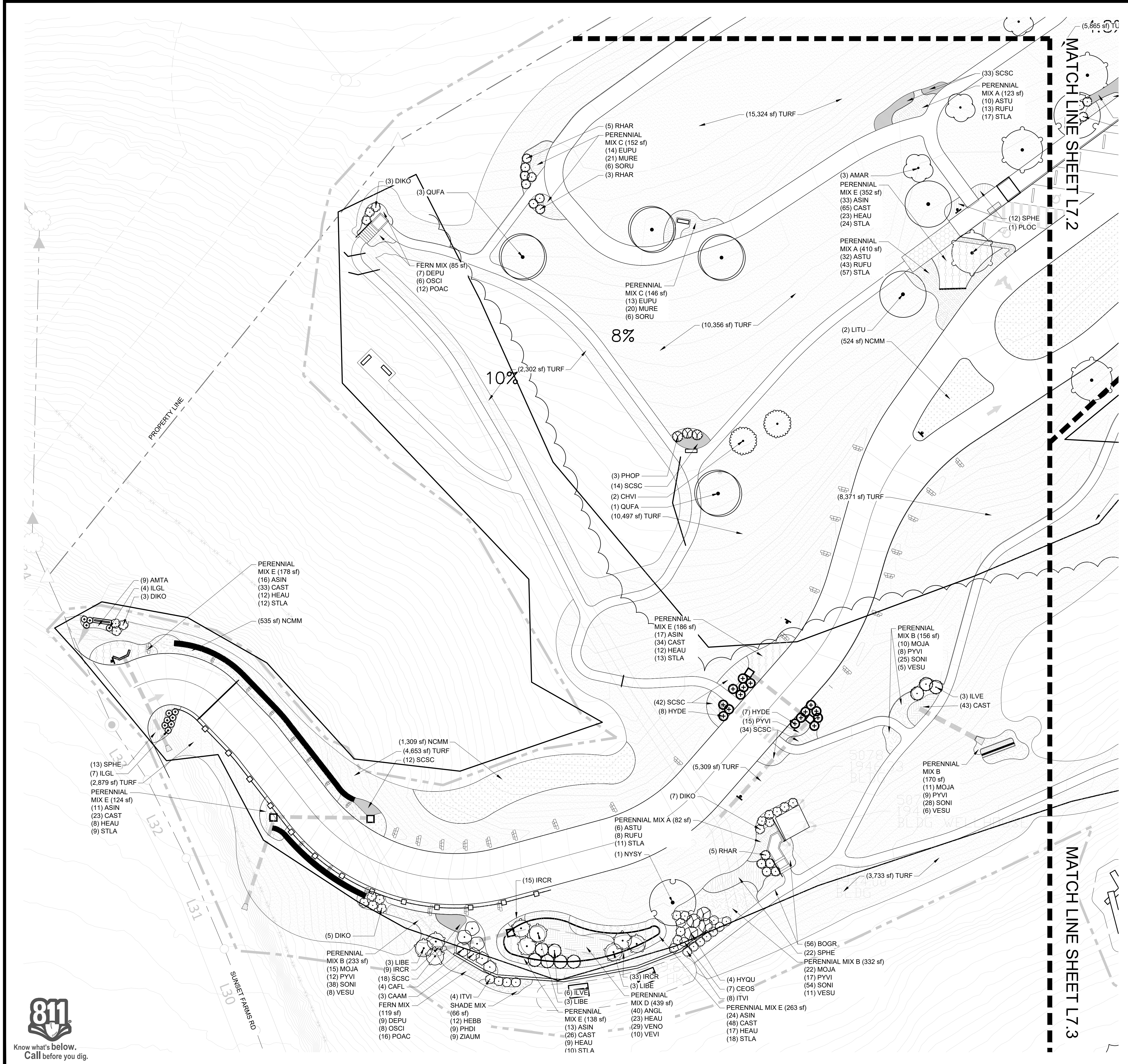
PHASE: BID SET

DATE: August 21, 2024

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DRAWING NAME: DELINEATION MAP

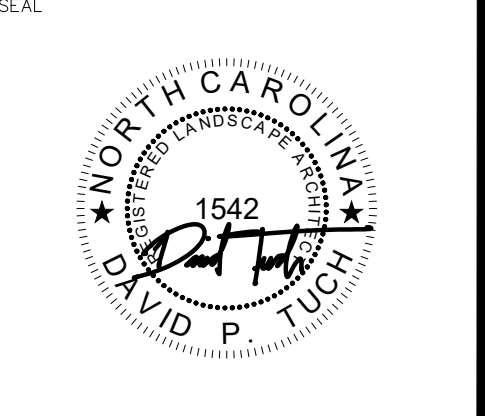
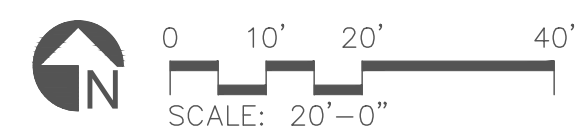
L6.4



LEGEND

| SYMBOL | CODE | COMMON NAME |
|-----------------------------|-----------------|-----------------------------------|
| TREES | | |
| | PLOC | American Sycamore |
| | AMAR | Downy Serviceberry |
| | QUFA | Southern Red Oak |
| | LITU | Tulip Poplar |
| | NYSY | Tupelo |
| | CHVI | White Fringetree |
| SHRUBS | | |
| | CAAM | American Beautyberry |
| | HYDE | Bushy St. John's Wort |
| | PHOP | Dart's Gold Ninebark |
| | RHAR | Gro-Low Fragrant Sumac |
| | ILGL | Inkberry Holly |
| | DIKO | Kodiak Orange Diervilla |
| | ITVI | Little Henry® Sweetspire |
| | HYQU | Oakleaf Hydrangea |
| | LIBE | Spicebush |
| | CEOS | Sugar Shack Buttonbush |
| | CAFL | Sweetshrub |
| | ILVE | Winterberry |
| GROUND COVERS | | |
| | SHADE MIX | |
| | HEBB | Dolce® Blackberry Ice Coral Bells |
| | PHDI | Blue Moon Woodland Phlox |
| | ZIAUM | Golden Alexander |
| | PERENNIAL MIX A | |
| | ASTU | Butterfly Milkweed |
| | RUFU | Coneflower |
| | STLA | Stokes' Aster |
| | PERENNIAL MIX B | |
| | MOJA | Jacob Cline Bee Balm |
| | PYVI | Mountain Mint |
| | SONI | Indian Steel Indian Grass |
| | VESU | Swan Song Ironweed |
| | PERENNIAL MIX C | |
| | EUPU | Baby Joe Dwarf Joe Pye Weed |
| | MURE | Seep Muhly |
| | SORU | Fireworks Winkleleaf Goldenrod |
| | PERENNIAL MIX D | |
| | ANGL | Bushy Bluestem |
| | HEAU | Sneezeweed |
| | VENO | Comon Ironweed |
| | VEVI | Culver's Root |
| | PERENNIAL MIX E | |
| | ASIN | Swamp Milkweed |
| | CAST | Tussock Sedge |
| | HEAU | Sneezeweed |
| | STLA | Stokes' Aster |
| | FERN MIX | |
| | DEPU | Hay-scented Fern |
| | OSCI | Cinnamon Fern |
| | POAC | Christmas Fern |
| GRASSES & SEDGES | | |
| | BOGR | Blue Grama |
| | SCSC | Carousel Little Bluestem |
| | SPHE | Prairie Dropseed |
| | CAST | Tussock Sedge |
| PERENNIALS | | |
| | IRCR | Dwarf Crested Iris |
| | AMTA | Eastern Bluestar |
| | PYVI | Mountain Mint |
| SOD/SEED | | |
| | TURF | Drought Tolerant Fescue Blend |
| | NCMM | NC Mountains UPL Meadow Mix |

NOTE: REFER TO L7.4 FOR FULL PLANT SCHEDULE.



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| DATE | REVISIONS |
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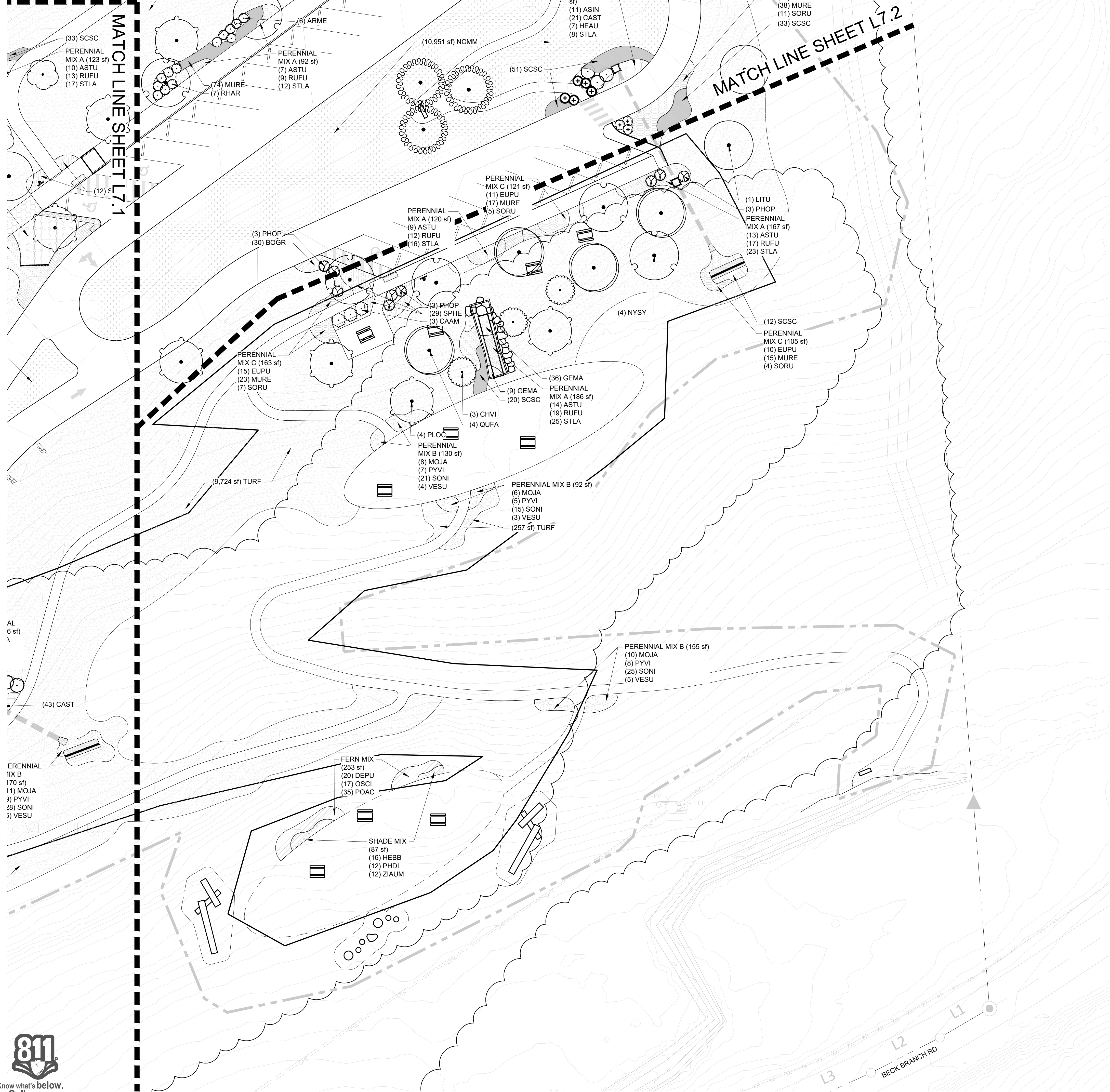
DATE: **August 21, 2024**

DRAWING SCALE: **AS SHOWN**
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DRAWING NAME: **PLANTING PLAN ENLARGEMENT**

L7.1

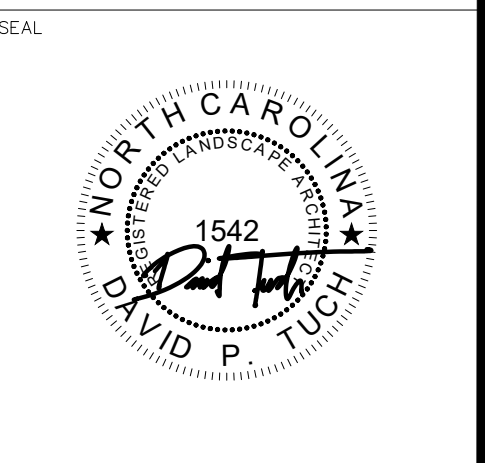




LEGEND

| SYMBOL | CODE | COMMON NAME |
|-----------------------------|----------|-----------------------------------|
| TREES | | |
| | PLOC | American Sycamore |
| | QUFA | Southern Red Oak |
| | LITU | Tulip Poplar |
| | NYSY | Tupelo |
| | CHVI | White Fringetree |
| SHRUBS | | |
| | CAAM | American Beautyberry |
| | PHOP | Dart's Gold Ninebark |
| GROUND COVERS | | |
| | SHAD MIX | |
| | HEBB | Dolce® Blackberry Ice Coral Bells |
| | PHDI | Blue Moon Woodland Phlox |
| | ZIAUM | Golden Alexander |
| PERENNIAL MIX A | | |
| | ASTU | Butterfly Milkweed |
| | RUFU | Coneflower |
| | STLA | Stokes' Aster |
| PERENNIAL MIX B | | |
| | MOJA | Jacob Cline Bee Balm |
| | PYVI | Mountain Mint |
| | SONI | Indian Steel Indian Grass |
| | VESU | Swan Song Ironweed |
| PERENNIAL MIX C | | |
| | EUPU | Baby Joe Dwarf Joe Pye Weed |
| | MURE | Seep Mulhy |
| | SORU | Fireworks Wrinkleleaf Goldenrod |
| FERN MIX | | |
| | DEPU | Hay-scented Fern |
| | OSCI | Cinnamon Fern |
| | POAC | Christmas Fern |
| GRASSES & SEDGES | | |
| | SCSC | Carousel Little Bluestem |
| | SPHE | Prairie Dropseed |
| PERENNIALS | | |
| | GEMA | Spotted Geranium |
| SOD/SEED | | |
| | TURF | Drought Tolerant Fescue Blend |

NOTE: REFER TO L7.4 FOR FULL PLANT SCHEDULE.



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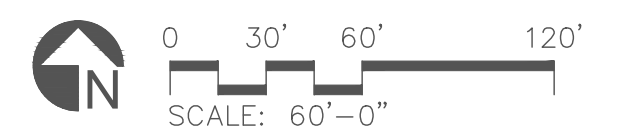
PHASE: **BID SET**

DATE: **August 21, 2024**

DRAWING SCALE: **AS SHOWN**
NOTE: If this drawing is not 24x36" it has been revised from its original size and the scales noted on drawings/details are no longer applicable.

DRAWING NAME: **PLANTING PLAN ENLARGEMENT**

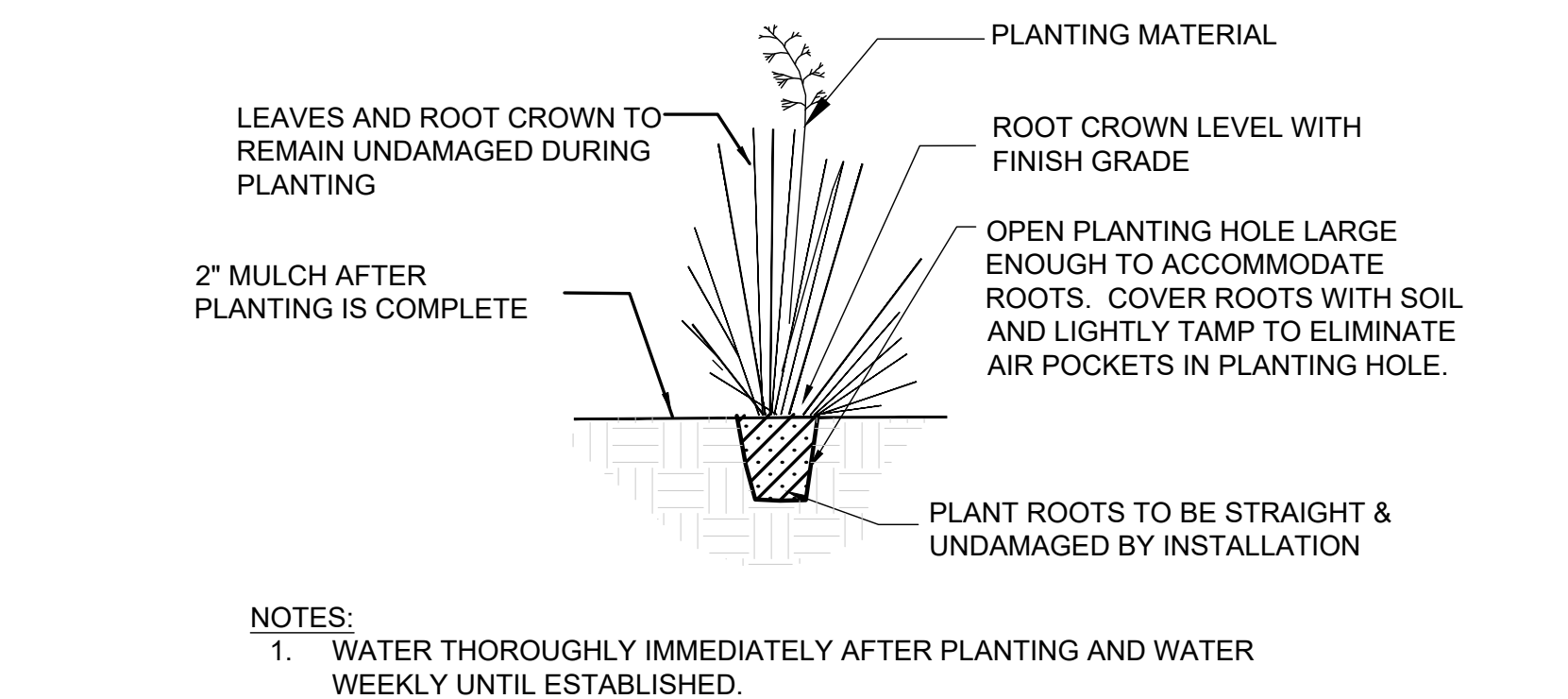
L7.3



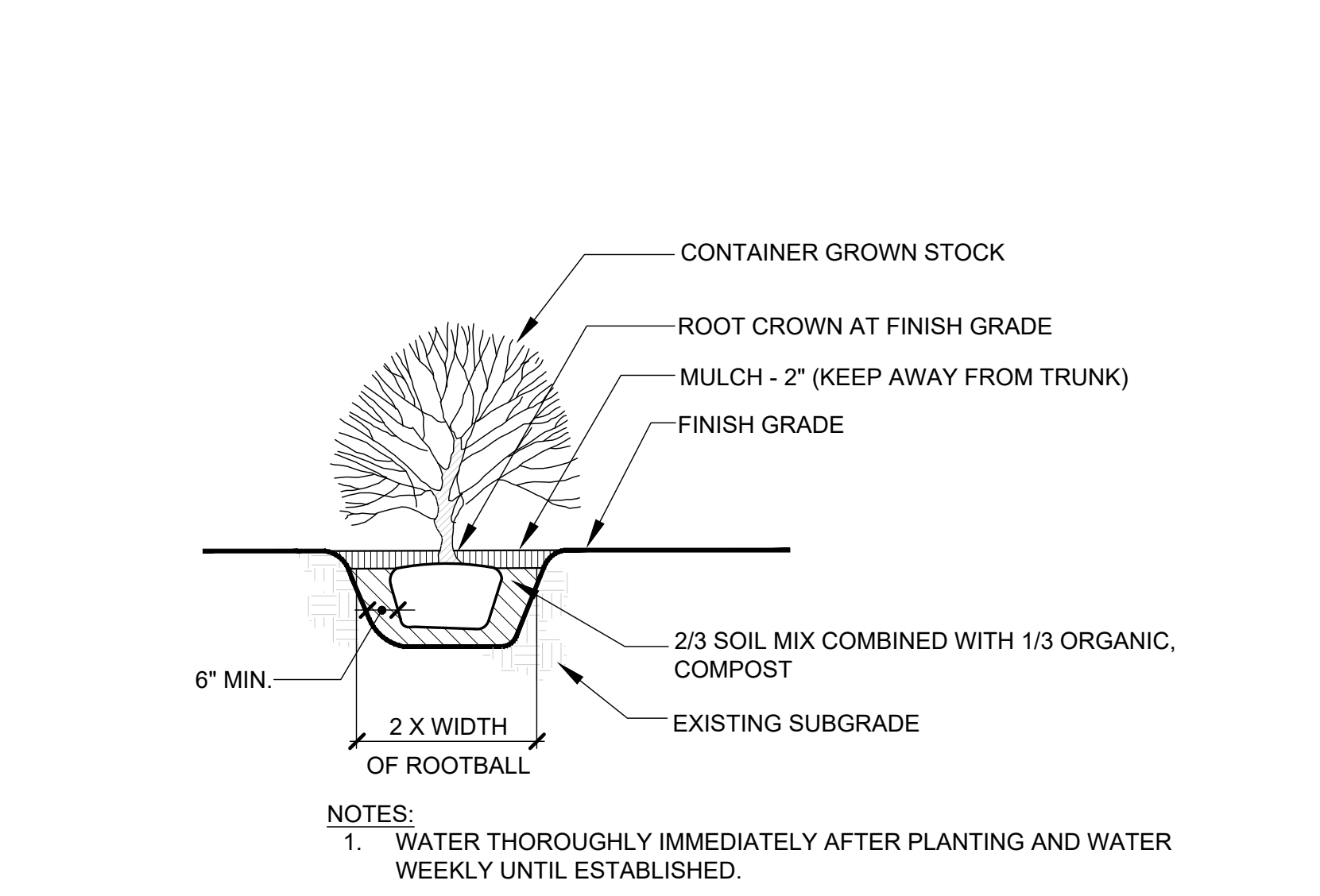
| PLANT SCHEDULE | | | | | |
|----------------|------|-----|---|---------|-----------|
| SYMBOL | CODE | QTY | BOTANICAL / COMMON NAME | HEIGHT | CONTAINER |
| TREES | | | | | |
| | AMAR | 9 | Amelanchier arborea Downy Serviceberry | 6' Ht. | B&B |
| | CHVI | 8 | Chionanthus virginicus White Fringetree | 6' Ht. | B&B |
| | GLTR | 3 | Gleditsia triacanthos inermis 'Suncole' Sunburst® Honey Locust | 10' Ht. | B&B |
| | LITU | 6 | Liriodendron tulipifera Tulip Poplar | 10' Ht. | B&B |
| | NYSY | 10 | Nyssa sylvatica Tupelo | 10' Ht. | B&B |
| | PLOC | 11 | Platanus occidentalis American Sycamore | 10' Ht. | B&B |
| | QUFA | 9 | Quercus falcata Southern Red Oak | 10' Ht. | B&B |
| SYMBOL | CODE | QTY | BOTANICAL / COMMON NAME | SIZE | CONTAINER |
| SHRUBS | | | | | |
| | ARME | 14 | Aronia melanocarpa Black Chokeberry | 3 gal. | Pot |
| | CAAM | 6 | Callicarpa americana American Beautyberry | 5 gal. | Pot |
| | CAFL | 15 | Calycanthus floridus Sweetshrub | 3 gal. | Pot |
| | CEOS | 12 | Cephalanthus occidentalis 'SMCOSS' TM Sugar Shack Buttonbush | 5 gal. | Pot |
| | DIKO | 23 | Diervilla x 'G2X88544' TM Kodiak Orange Diervilla | 3 gal. | Pot |
| | FOBL | 22 | Fothergilla gardenii 'Blue Mist' Blue Mist Dwarf Fothergilla | 3 gal. | Pot |
| | HYQU | 4 | Hydrangea quercifolia Oakleaf Hydrangea | 5 gal. | Pot |
| | HYDE | 25 | Hypericum densiflorum Bushy St. John's Wort | 3 gal. | Pot |
| | ILGL | 19 | Ilex glabra 'Densa' Inkberry Holly | 5 gal. | Pot |
| | ILVE | 12 | Ilex verticillata Winterberry 1 male plant for a maximum of 6 female plants. If not straight species, males and females to be of corresponding cultivars. | 10 gal. | Pot |
| | ITVI | 17 | Itea virginica 'Sprich' Little Henry® Sweetspire | 3 gal. | Pot |
| | LIBE | 9 | Lindera benzoin Spicebush | 10 gal. | Pot |
| | PHOP | 12 | Physocarpus opulifolius 'Dart's Gold' Dart's Gold Ninebark | 5 gal. | Pot |
| | RHAR | 49 | Rhus aromatica 'Gro-Low' Gro-Low Fragrant Sumac | 5 gal. | Pot |

| PLANT SCHEDULE | | | | | |
|-----------------------------|-------|------------|---|--------|----------------|
| SYMBOL | CODE | QTY | BOTANICAL / COMMON NAME | SIZE | SPACING |
| GROUND COVERS | | | | | |
| | | 152 sf | SHADE MIX | | |
| | HEBB | 28 | Heuchera x 'Blackberry Ice' Dolce® Blackberry Ice Coral Bells | #1 | 40" @ 18" o.c. |
| | PHDI | 21 | Phlox divaricata 'Blue Moon' Blue Moon Woodland Phlox | #1 | 30" @ 18" o.c. |
| | ZIAUM | 21 | Zizia aurea Golden Alexander | #1 | 30" @ 18" o.c. |
| | | 1,180 sf | PERENNIAL MIX A | | |
| | ASTU | 92 | Asclepias tuberosa Butterfly Milkweed | 1 gal. | 30" @ 24" o.c. |
| | RUFU | 122 | Rudbeckia fulgida Coneflower | #1 | 40" @ 24" o.c. |
| | STLA | 163 | Stokesia laevis Stokes' Aster | #1 | 30" @ 18" o.c. |
| | | 2,183 sf | PERENNIAL MIX B | | |
| | MOJA | 141 | Monarda didyma 'Jacob Cline' Jacob Cline Bee Balm | #1 | 25" @ 24" o.c. |
| | PYVI | 114 | Pycnanthemum virginianum Mountain Mint | #1 | 20" @ 24" o.c. |
| | SONI | 355 | Sorghastrum nutans 'Indian Steel' Indian Steel Indian Grass | plug | 35" @ 18" o.c. |
| | VESU | 74 | Vernonia x 'Summer's Swan Song' Swan Song Ironweed | 1 gal. | 20" @ 30" o.c. |
| | | 1,343 sf | PERENNIAL MIX C | | |
| | EUPU | 122 | Eutrochium purpureum 'Baby Joe' Baby Joe Dwarf Joe Pye Weed | #1 | 35" @ 24" o.c. |
| | MURE | 186 | Muhlenbergia reverchonii Seep Muhly | plug | 30" @ 18" o.c. |
| | SORU | 54 | Solidago rugosa 'Fireworks' Fireworks Wrinkleleaf Goldenrod | #1 | 35" @ 36" o.c. |
| | | 439 sf | PERENNIAL MIX D | | |
| | ANGL | 40 | Andropogon glomeratus Bushy Bluestem | Pint | 35" @ 24" o.c. |
| | HEAU | 23 | Helenium autumnale Sneezeweed | #1 | 20" @ 24" o.c. |
| | VENO | 29 | Vernonia noveboracensis Common Ironweed | #2 | 25" @ 24" o.c. |
| | VEVI | 10 | Veronicastrum virginicum Culver's Root | 1 gal. | 20" @ 36" o.c. |
| | | 1,707 sf | PERENNIAL MIX E | | |
| | ASIN | 158 | Asclepias incarnata Swamp Milkweed | #1 | 20" @ 18" o.c. |
| | CAST | 315 | Carex stricta Tussock Sedge | plug | 40" @ 18" o.c. |
| | HEAU | 111 | Helenium autumnale Sneezeweed | #1 | 25" @ 24" o.c. |
| | STLA | 118 | Stokesia laevis Stokes' Aster | #1 | 15" @ 18" o.c. |
| | | 457 sf | FERN MIX | | |
| | DEPU | 35 | Dennstaedtia punctilobula Hay-scented Fern | #1 | 30" @ 24" o.c. |
| | OSCI | 31 | Osmunda cinnamomea Cinnamon Fern | #1 | 40" @ 30" o.c. |
| | POAC | 63 | Polystichum acrostichoides Christmas Fern | #1 | 30" @ 18" o.c. |
| GRASSES & SEDGES | | | | | |
| | BOGR | 213 | Bouteloua gracilis Blue Grama | plug | 18" o.c. |
| | CAST | 43 | Carex stricta Tussock Sedge | plug | 18" o.c. |
| | ERSP | 399 | Eragrostis spectabilis Purple Lovegrass | plug | 12" o.c. |
| | MURE | 74 | Muhlenbergia reverchonii Seep Muhly | plug | 18" o.c. |
| | SCSC | 318 | Schizachyrium scoparium 'Carouse!' Carouse! Little Bluestem | #1 | 24" o.c. |
| | SPHE | 76 | Sporobolus heterolepis Prairie Dropseed | 1 gal. | 36" o.c. |
| PERENNIALS | | | | | |
| | AMHU | 35 | Amsonia hubrichtii Arkansas Bluestar | 1 gal. | 36" o.c. |
| | AMTA | 113 | Amsonia tabernaemontana Eastern Bluestar | #1 | 18" o.c. |
| | COVE | 10 | Coreopsis verticillata 'Moonbeam' Moonbeam Tickseed | #1 | 24" o.c. |
| | GEMA | 45 | Geranium maculatum Spotted Geranium | #1 | 18" o.c. |
| | IRCR | 57 | Iris cristata Dwarf Crested Iris | #1 | 12" o.c. |
| | PYVI | 15 | Pycnanthemum virginianum Mountain Mint | #1 | 24" o.c. |
| | ZIAUM | 4 | Zizia aurea Golden Alexander | #1 | 18" o.c. |
| SOD/SEED | | | | | |
| | NCMM | 13,318 sf | ERNMX-303 NC Mountains UPL Meadow Mix Apply at rate of 20 lbs/acre. See Ernst Seeds for appropriate cover crop and rate of application. | seed | |
| | TURF | 119,041 sf | Turf Seed Drought Tolerant Fescue Blend | seed | |

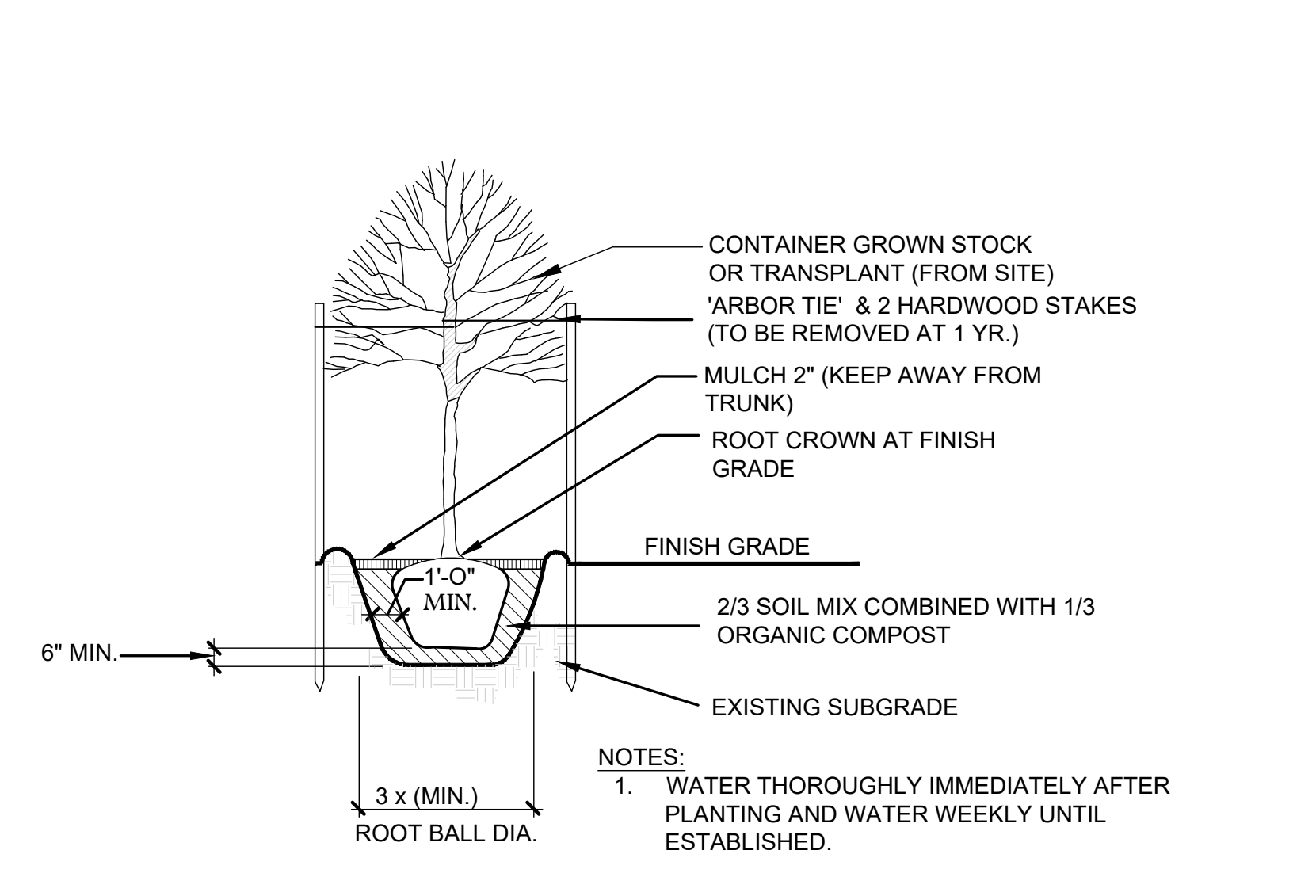
* NOTE: SOME GROUNDCOVERS AND GRASSES ARE CALLED OUT IN MIXES ON PLANTING SHEETS. THESE ARE NOT SEED MIXES; THEY ARE PLUGS OR POTS. MIXES ARE TO BE PLANTED IN GROUPS BY SPECIES, WITH SPECIES DISTRIBUTED THROUGHOUT THE PLANTING AREA. MINIMUM GROUPING TO BE 3, NO EVEN NUMBERS, AS IS POSSIBLE.



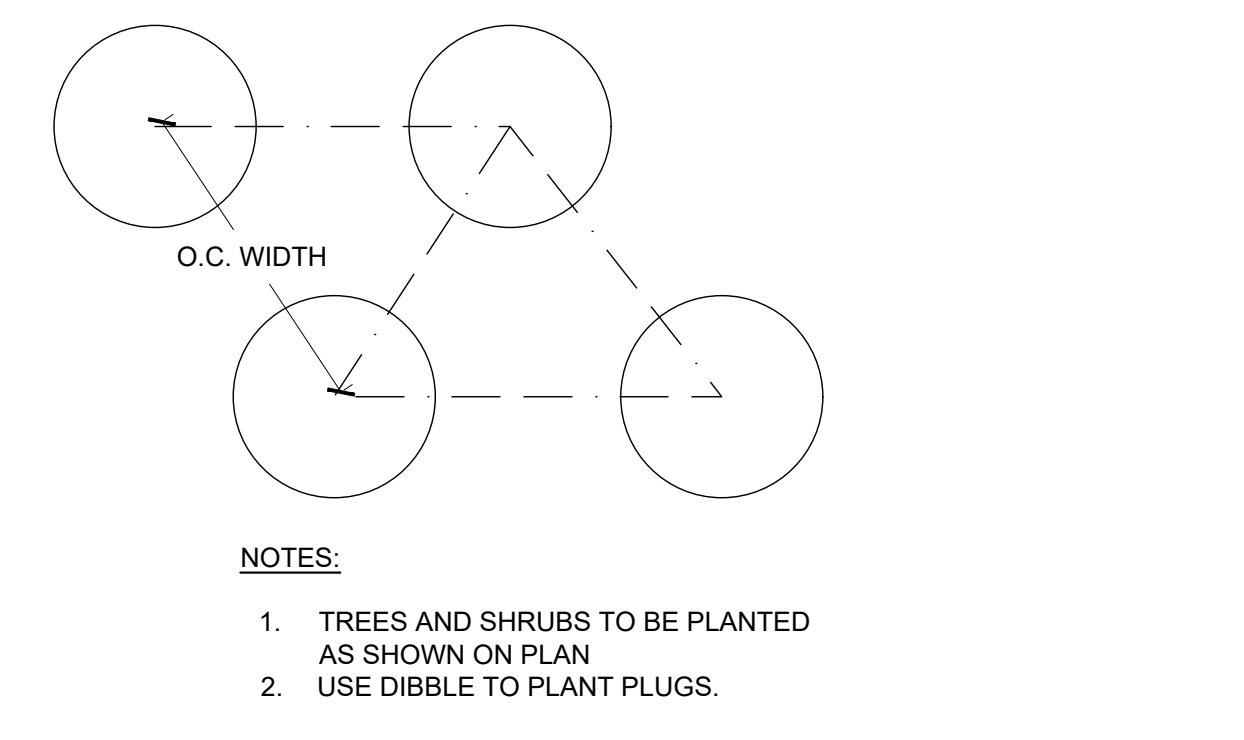
1 PERENNIAL PLANTING (TYPICAL SECTION)
SCALE: NOT TO SCALE



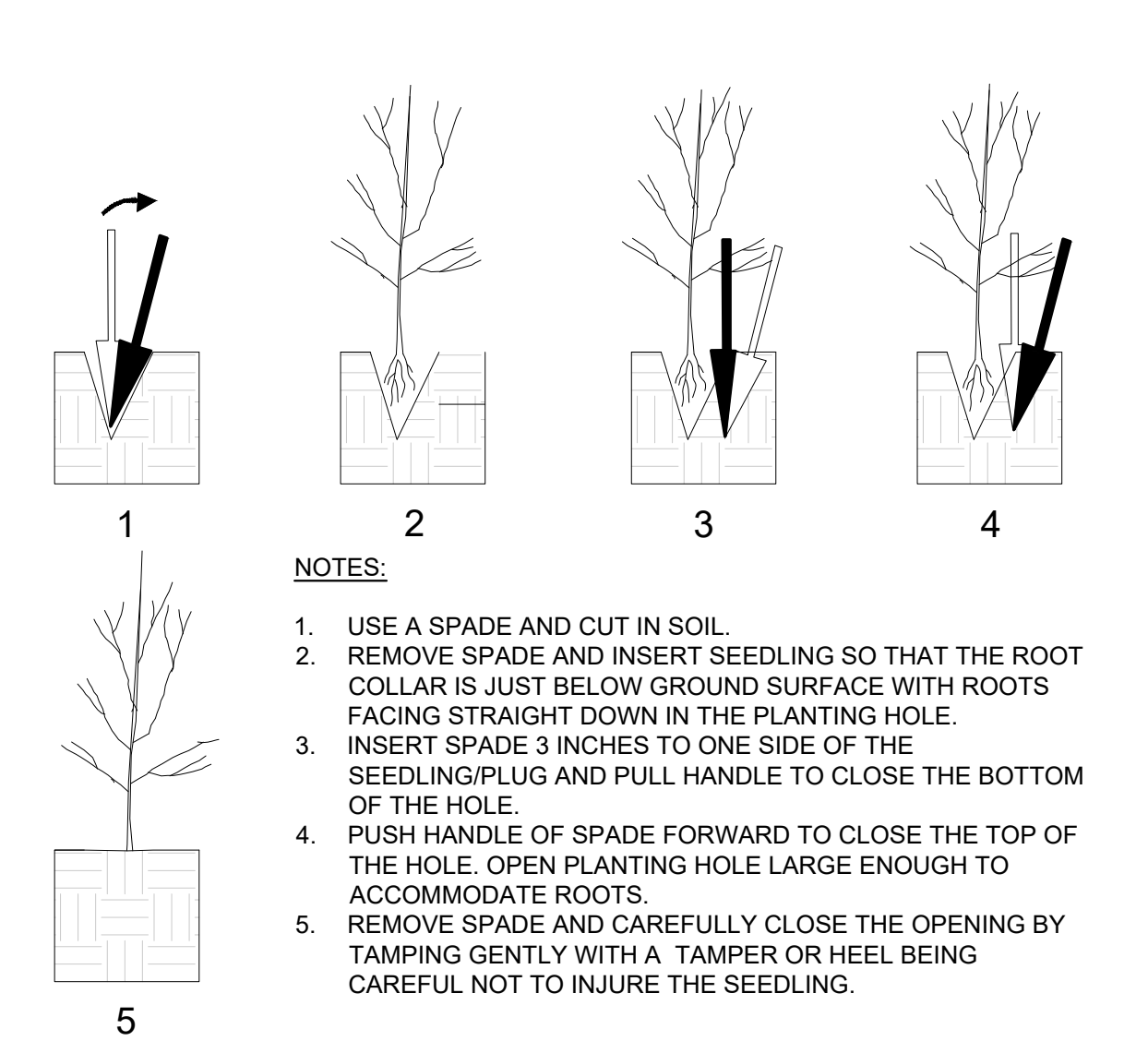
2 SHRUB PLANTING (TYPICAL SECTION)
SCALE: NOT TO SCALE



3 TREE PLANTING (TYPICAL SECTION)
SCALE: NOT TO SCALE



4 PLUG SPACING
SCALE: NOT TO SCALE

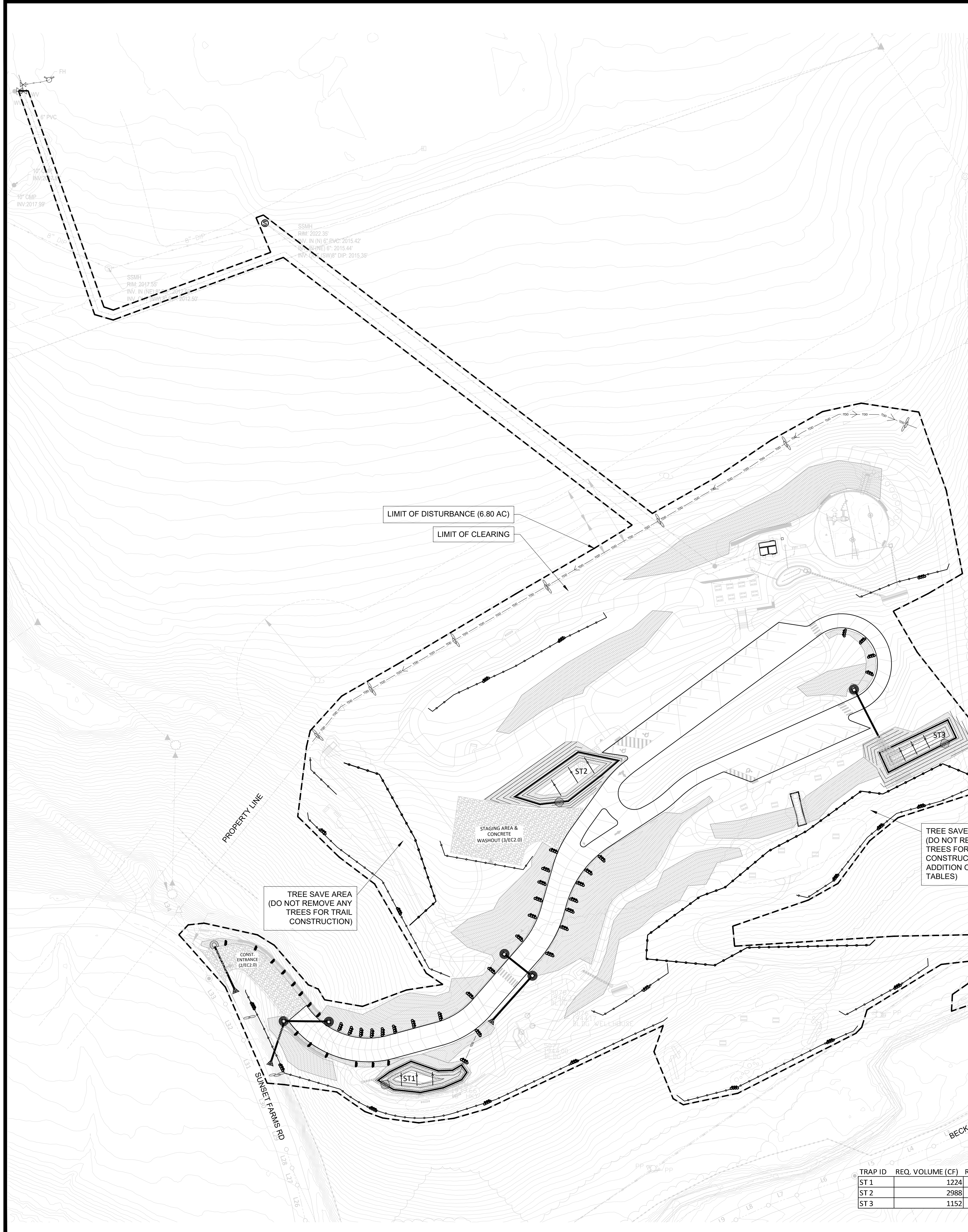


5 PLUG PLANTING
SCALE: NOT TO SCALE



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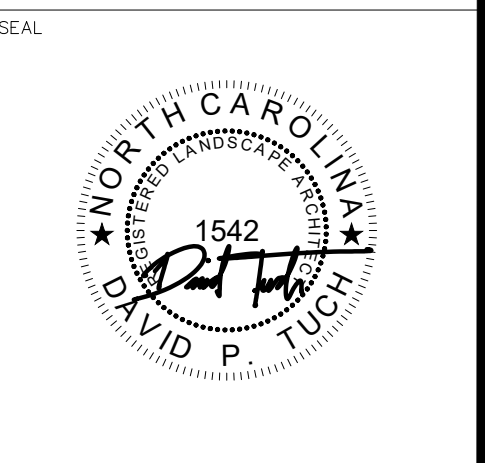
- ### EROSION CONTROL SEQUENCE PHASE 1
- AFTER FOLLOWING THE EROSION CONTROL SEQUENCE OUTLINED FOR THE PREVIOUS PHASE, THEN PROCEED AS FOLLOWS:
- HOLD PRE-CONSTRUCTION MEETING TO IDENTIFY SITE CONSTRAINTS, CONSTRUCTION ROUTING, AND STAGING.
 - INSTALL CONSTRUCTION ENTRANCE AND CONSTRUCTION ACCESS.
 - INSTALL PERIMETER EC MEASURES AROUND AREAS TO BE DEMO-ED, INCLUDING SILT FENCE AND TEMPORARY DIVERSIONS DITCHES TO KEEP UPSLOPE CLEAN WATERS FROM ENTERING THE SITE.
 - ESTABLISH STAGING AREA AND STOCKPILE AREA.
 - INSTALL SEDIMENT TRAPS.
 - ONCE THE SEDIMENT TRAPS ARE FULLY INSTALLED AND FUNCTIONAL WITH A CONNECTED OUTFALL, BEGIN DEMOLITION OF EXISTING FEATURES (REFER TO THE SITE PREPARATION SHEET).
 - MASS GRADE.
 - GRADE IN ROAD, SWALES, AND PARKING.
 - ESTABLISH MATTING AND CHECK DAMS IN SWALES
 - INSTALL PIPES, DROP INLETS, INLET & OUTFALL PROTECTION.
 - INSTALL WALLS.
 - LAY UTILITIES.
 - FINE GRADE ROAD AND LAY BASE COURSE FOR ROAD AND PARKING. MAY CONNECT TO PERMANENT CHECKS ONCE BASE COURSE ON ROAD AND PARKING IS ESTABLISHED
 - MAINTAIN EROSION CONTROL DEVICES AS NOTED IN EC DETAILS ON EC2.0 – EC2.2 SHEETS.

| TRAP ID | REQ. VOLUME (CF) | REQ. AREA (SF) | DESIGNED VOLUME | DESIGNED AREA |
|---------|------------------|----------------|-----------------|---------------|
| ST 1 | 1224 | 439 | 2168 | 1445 |
| ST 2 | 2988 | 1083 | 3309 | 2206 |
| ST 3 | 1152 | 409 | 1353 | 1353 |

LEGEND

| SYMBOL | DESCRIPTION | DETAIL |
|--------|---------------------------------------|-----------|
| | LIMIT OF DISTURBANCE | |
| | EROSION CONTROL MATTING | 4/ EC2.0 |
| | OUTLET PROTECTION (ENERGY DISSIPATER) | 6/ EC2.0 |
| | INLET PROTECTION | 1/ EC2.0 |
| | TREE SAVE ZONE | |
| | REINFORCED SILT FENCE | 7/ EC2.0 |
| | TEMPORARY DIVERSION DITCH | 5/ EC2.0 |
| | TEMPORARY SEED | 4/ EC2.1 |
| | SEDIMENT TRAP/SPILLWAY | 1/ EC 2.2 |
| | PERMANENT PIPE | |
| | SEDIMENT SOCK | 1/ EC2.1 |
| | ROCK CHECK DAM | 2/ EC2.1 |
| | SURFACE ROUGHENING | 3/ EC2.1 |

- ### EROSION CONTROL MEASURE NOTES:
- THOROUGHLY REVIEW THE SEDIMENT AND EROSION CONTROL PLAN, ADDING EXTRA AS NECESSARY TO ELIMINATE SEDIMENTATION OFFSITE.
 - STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED, BUT IN NO CASE MORE THAN SEVEN (7) DAYS AFTER WORK HAS CEASED, EXCEPT AS STATED BELOW.
 - WHERE STABILIZATION BY THE 7TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS STABILIZATION MEASURES MUST BE INITIATED AS SOON AS PRACTICABLE.
 - ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE INSPECTED ONCE EVERY CALENDAR WEEK. IF PERIODIC INSPECTION OR OTHER INFORMATION INDICATES THAT A BMP HAS BEEN INAPPROPRIATELY OR INCORRECTLY INSTALLED, THE PERMITEE MUST ADDRESS THE NECESSARY REPLACEMENT OR MODIFICATION REQUIRED TO CORRECT THE BMP WITHIN 48 HOURS OF IDENTIFICATION. IF THIS OCCURS, NOTIFY LANDSCAPE ARCHITECT.
 - PROVIDE SILT FENCE AND/OR OTHER CONTROL DEVICES, AS MAY BE REQUIRED, TO CONTROL SOIL EROSION DURING UTILITY CONSTRUCTION. ALL DISTURBED AREAS SHALL BE CLEANED, GRADED, AND STABILIZED WITH GRASSING IMMEDIATELY AFTER THE UTILITY INSTALLATION. FILL, COVER, AND TEMPORARY SEEDING AT THE END OF EACH DAY ARE RECOMMENDED. IF WATER IS ENCOUNTERED WHILE TRENCHING, THE WATER SHOULD BE FILTERED TO REMOVE ANY SEDIMENTS BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
 - ALL EROSION CONTROL DEVICES SHALL BE PROPERLY MAINTAINED DURING ALL PHASES OF CONSTRUCTION UNTIL THE COMPLETION OF ALL CONSTRUCTION ACTIVITIES AND ALL DISTURBED AREAS HAVE BEEN STABILIZED. ADDITIONAL CONTROL DEVICES MAY BE REQUIRED DURING CONSTRUCTION IN ORDER TO CONTROL EROSION AND/OR OFFSITE SEDIMENTATION. ALL TEMPORARY CONTROL DEVICES SHALL BE REMOVED ONCE CONSTRUCTION IS COMPLETE AND THE SITE IS STABILIZED.
 - THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO PAVED ROADWAY(S) FROM CONSTRUCTION AREAS AND THE GENERATION OF DUST. THE CONTRACTOR SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED. OTHER MEASURES TO REDUCE TRACKING MAY INCLUDE WASHING DOWN TRACKS OF HEAVY EQUIPMENT.
 - TEMPORARY DIVERSION BERMS AND/OR DITCHES WILL BE PROVIDED AS NEEDED DURING CONSTRUCTION TO PROTECT WORK AREAS FROM UPSLOPE RUNOFF AND/OR TO DIVERT SEDIMENT-LADEN WATER TO APPROPRIATE TRAPS OR STABLE OUTLETS. THESE TEMPORARY BERMS AND DITCHES SHALL BE PROTECTED WITH A ROLLED EROSION AND SEDIMENT CONTROL PRODUCT UNTIL VEGETATION CAN BE ESTABLISHED.
 - LITTER, CONSTRUCTION DEBRIS, OILS, FUELS, AND BUILDING PRODUCTS WITH SIGNIFICANT POTENTIAL FOR IMPACT (SUCH AS STOCKPILES OF FRESHLY TREATED LUMBER) AND CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.
 - A COPY OF THE INSPECTION RECORDS, AND RAINFALL DATA MUST BE RETAINED AT THE CONSTRUCTION SITE OR A NEARBY LOCATION EASILY ACCESSIBLE DURING NORMAL BUSINESS HOURS, FROM THE DATE OF COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE DATE THAT FINAL STABILIZATION IS REACHED.
 - INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND-DISTURBING ACTIVITIES HAVE PERMANENTLY OR TEMPORARILY CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS.
 - MINIMIZE SOIL COMPACTION AND, UNLESS UNFEASIBLE, PRESERVE TOPSOIL FOR FUTURE PLANTING.
 - MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT AND VEHICLE WASHING, WHEEL WASH WATER, AND OTHER WASH WATERS. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE.
 - MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMP'S (SEDIMENT BASIN, FILTER BAG, ETC).
 - MAINTAIN ALL BUFFER REQUIREMENTS AS INDICATED ON THE PLAN.
 - THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:
 - 16.1. WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL;
 - 16.2. WASTEWATER FROM WASHOUT AND CLEANOUT OF STUCCO, PAINT, FORM RELEASE OILS, CURING COMPOUNDS, AND OTHER CONSTRUCTION MATERIALS;
 - 16.3. FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE AND EQUIPMENT OPERATION AND MAINTENANCE; AND
 - 16.4. SOAPS OR SOLVENTS USED IN VEHICLE AND EQUIPMENT WASHING.
 - AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS ARE EXPECTED TO BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK AND MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.
 - IF THE SAME PERSON CONDUCTS THE LAND-DISTURBING ACTIVITY AND ANY RELATED BORROW OR WASTE ACTIVITY, THE RELATED BORROW OR WASTE ACTIVITY SHALL CONSTITUTE PART OF THE LAND-DISTURBING ACTIVITY UNLESS THE BORROW OR WASTE ACTIVITY IS REGULATED UNDER THE MINING ACT OF 1971, OR IS A LANDFILL REGULATED BY THE DIVISION OF WASTE MANAGEMENT. IF THE LAND-DISTURBING ACTIVITY AND ANY RELATED BORROW OR WASTE ACTIVITY ARE NOT CONDUCTED BY THE SAME PERSON, THEY SHALL BE CONSIDERED SEPARATE LAND-DISTURBING ACTIVITIES AND MUST BE PERMITTED EITHER THROUGH THE SEDIMENTATION POLLUTION CONTROL ACT AS A ONE-USE BORROW SITE OR THROUGH THE MINING ACT.



| DESIGN BY: | DRAWN BY: | CHECKED BY: |
|------------|-----------|-------------|
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| DATE | REVISIONS |
|------|-----------|
| | |

Jackson County
QUALLA WHITTIER PARK
Sunset Farms Rd.
Whittier, NC 28789

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| PHASE |
|---------|
| BID SET |

DATE: August 21, 2024

DRAWING SCALE: AS SHOWN

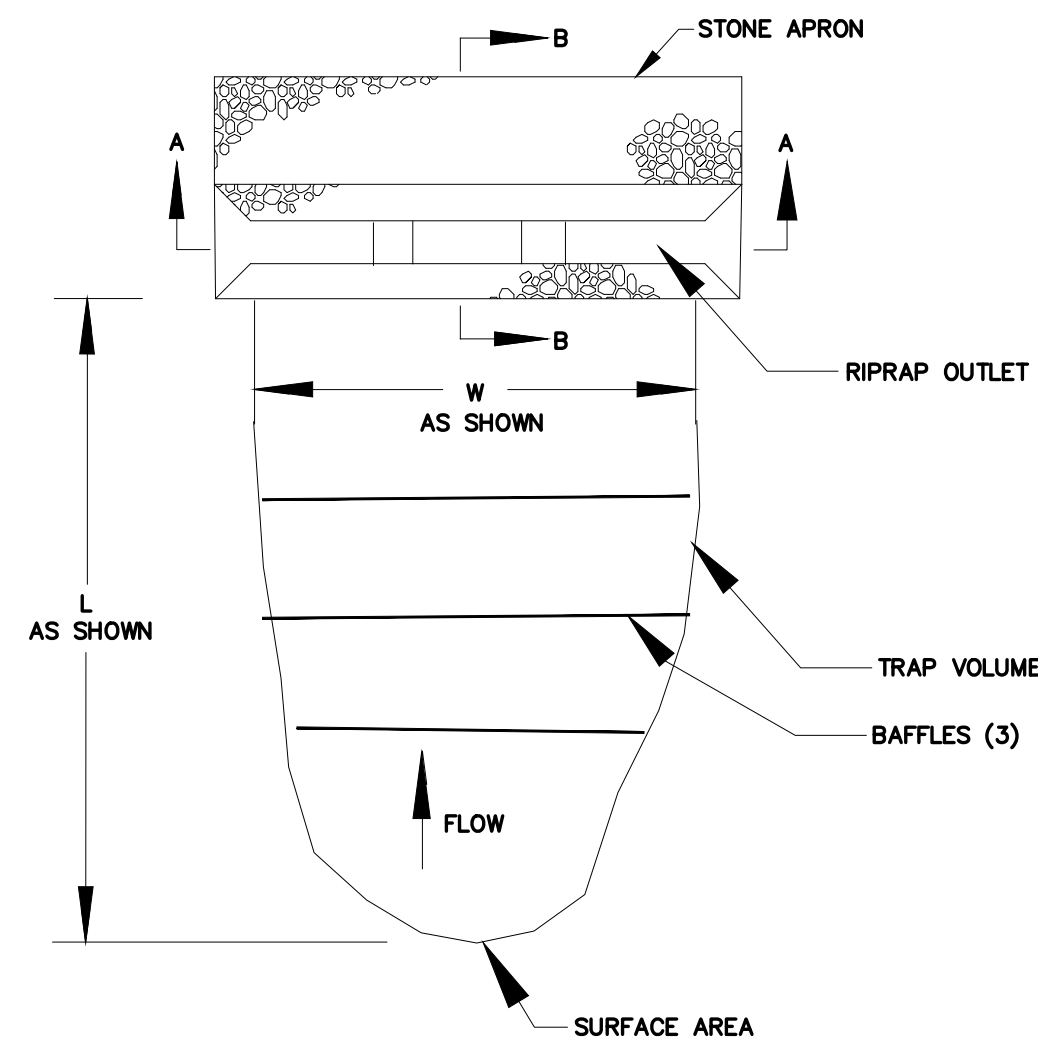
NOTE: If this drawing is not 24x36" it has been revised from its original size and the scales noted on drawings/details are no longer applicable.

DRAWING NAME: EROSION CONTROL PLAN P1

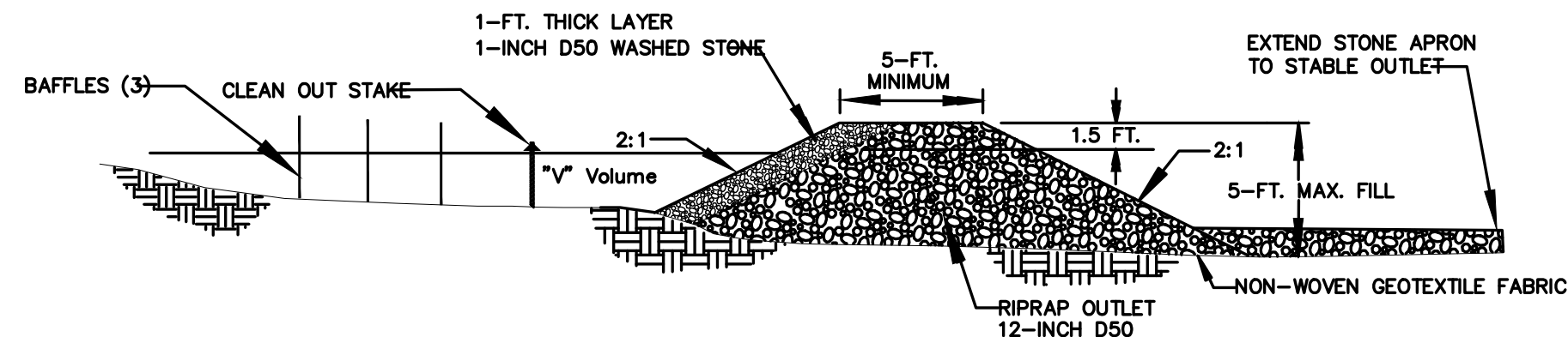
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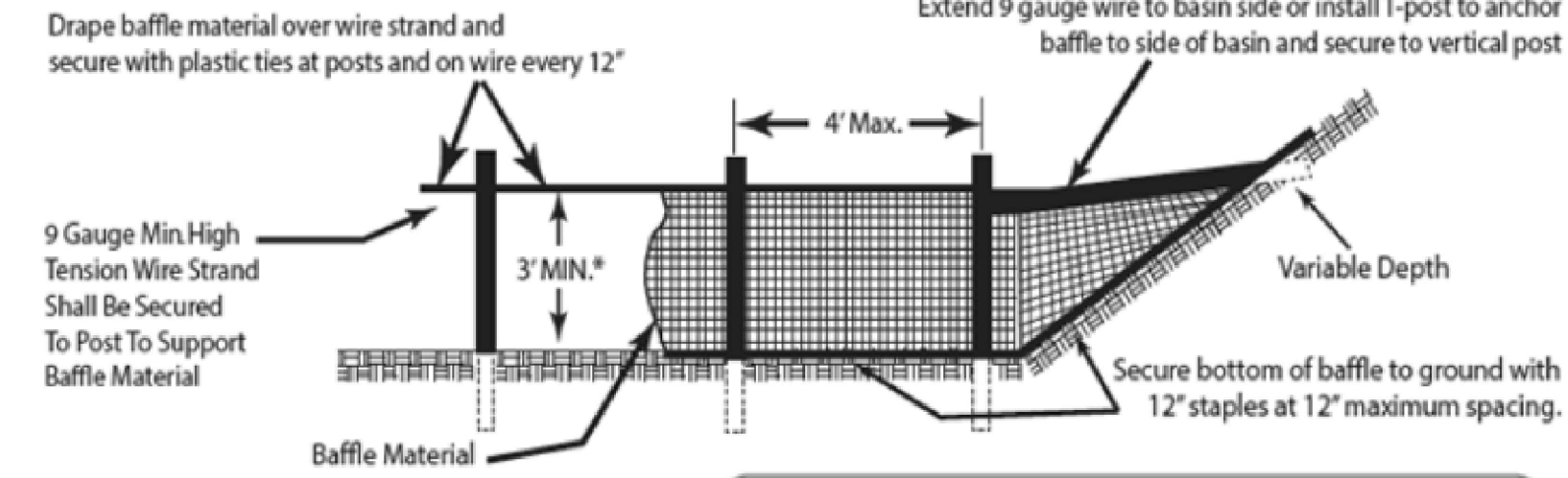
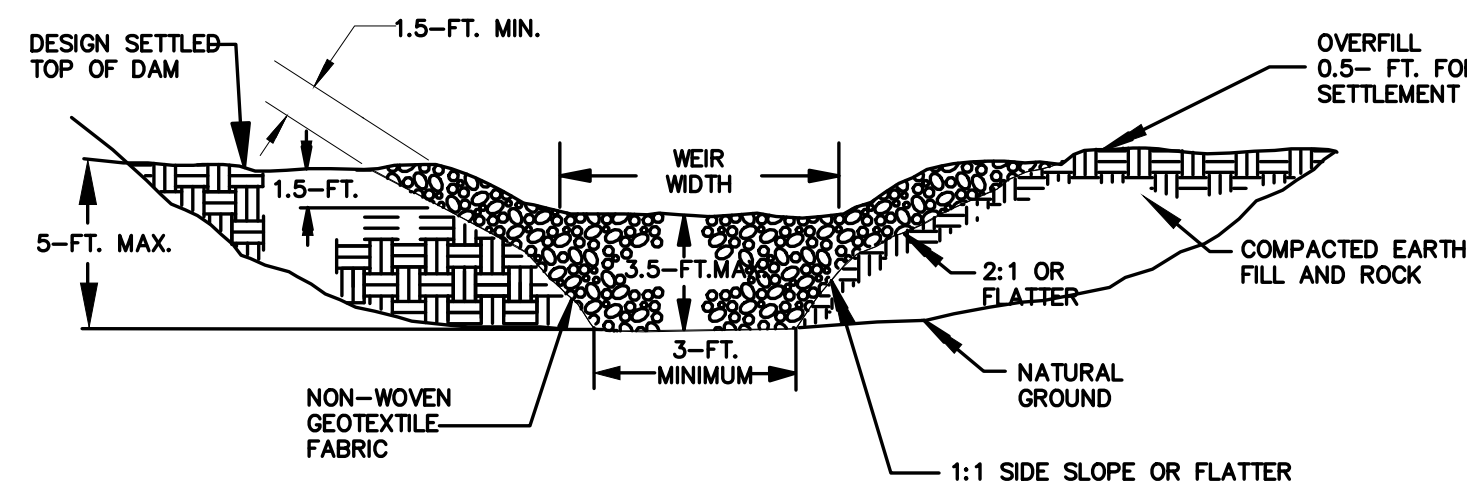
SEDIMENT TRAP PLAN VIEW



SECTION B - B



SECTION A - A



* If the temporary sediment basin will be converted to a permanent stormwater basin of greater depth, the baffle height should be based on the pool depth during use as a temporary sediment basin.

Note: Install three (3) coir fiber baffles in basins at drainage outlets with a spacing of 1/4 the basin length. Two (2) coir fiber baffles can be installed in the basins less than 20 ft. in length with a spacing of 1/3 the basin length.

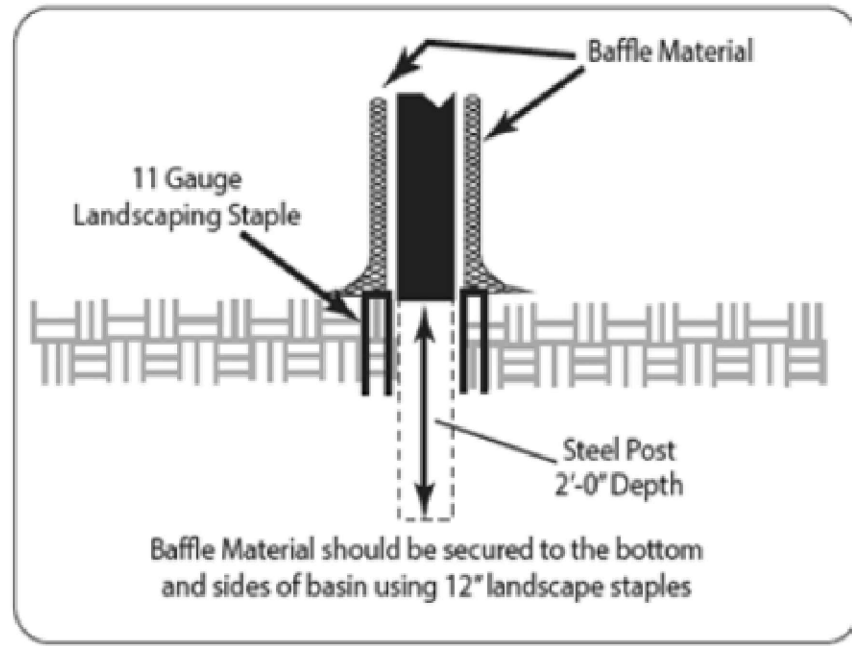
MATERIALS

- Use matting made of 100% coconut fiber (coir) twine woven into high strength matrix with the properties shown in Table 6.65a.
- Staples should be made of 0.125 inch diameter new steel wire formed into a 'U' shape not less than 12 inches in length with a throat of 1 inch in width. The staples anchor the porous baffles into the sides and bottom of the basin.
- Ensure that steel posts for porous baffles are of a sufficient height to support baffles at desired height. Posts should be approximately 1-3/8" wide measured parallel to the fence, and have a minimum weight of 1.25 lb/linear ft. The posts must be equipped with an anchor plate having a minimum area of 14.0 square inches and be of the self-fastener angle steel type to have a means of retaining wire and coir fiber mat in the desired position without displacement.
- Use 9-gauge high tension wire for support wire.

| Coir Fiber Baffle Material Property Requirements | |
|--|--|
| Thickness | 0.30 in. minimum |
| Tensile Strength (Wet) | 900 x 650 lbf minimum |
| Elongation (Wet) | 60% x 34% maximum |
| Flow Velocity | 10-12 ft/sec |
| Weight | 20 oz/SY (680 g/m ²) minimum |
| Minimum Width | 6.5 feet |
| Open Area | 50% maximum |

BAFFLE INSTAL NOTES:

The percent of surface area for each section of the baffle is as follows:
 • inlet zone: 25%
 • first cell: 25%
 • second cell: 25%
 • outlet zone: 25%
 Baffle spacing in future permanent stormwater basins is beyond forebay.
 Be sure to construct baffles up the sides of the trap or basin banks so water does not flow around the structures. Most of the sediment will be captured in the inlet zone. Smaller particle size sediments are captured in the latter cells. Be sure to maintain access to the trap for maintenance and sediment removal.
 The design life of the fabric is 6-12 months, but may need to be replaced more often if damaged or clogged.



GENERAL NOTES

- SEDIMENT TRAPS SHOULD NOT BE PLACED IN WATERS OF THE STATE OR USGS BLUE-LINED STREAMS (UNLESS APPROVED BY FEDERAL AUTHORITIES).
- BOTH OUTLET BERM AND THE STONE APRON SHALL HAVE AN UNDERLYING LAYER OF NON-WOVEN GEOTEXTILE FILTER FABRIC.
- ALL INTERNAL SIDE SLOPES OF THE SEDIMENT TRAP SHOULD BE 2.5:1 OR FLATTER.
- A SEDIMENT CLEANOUT STAKE SHOULD BE INSTALLED AND MARKED TO REMOVE SEDIMENT AT 50% OF THE SEDIMENT STORAGE VOLUME.
- AFTER CONSTRUCTION OF EACH SEDIMENT TRAP, THE AREA DISTURBED TO CONSTRUCT THE TRAP SHOULD BE PROMPTLY STABILIZED, INCLUDING ALL SIDE SLOPES.
- THE FOLLOWING SEDIMENT TRAP REQUIREMENTS SHALL BE MAINTAINED:
 - MAXIMUM EMBANKMENT HEIGHT SHALL BE 5 FEET.
 - MAXIMUM RIPRAP OUTLET HEIGHT SHALL BE 3.5 FEET.
 - MINIMUM FLOW LENGTH AT TOP OF RIPRAP OUTLET SHALL BE 5 FEET.
- INSTALL PER NC DEQ EROSION CONTROL MANUAL.

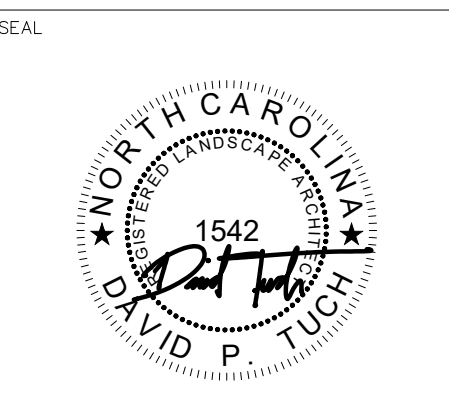
INSPECTION AND MAINTENANCE

- THE KEY TO A FUNCTIONAL SEDIMENT TRAP OS WEEKLY INSPECTIONS, ROUTINE MAINTENANCE, AND REGULAR SEDIMENT REMOVAL.
- ATTENTION TO SEDIMENT ACCUMULATIONS WITHIN THE TRAP IS EXTREMELY IMPORTANT. ACCUMULATED SEDIMENT DEPOSITION SHOULD BE CONTINUALLY MONITORED IN THE TRAP AND REMOVED WHEN NECESSARY.
- REMOVED ACCUMULATED SEDIMENT WHEN IT REACHES 50% OF THE DESIGNED SEDIMENT STORAGE VOLUME, AS MARKED BY THE CLEANOUT STAKE.
- REMOVED SEDIMENT FROM THE TRAP SHALL BE PLACED IN STOCKPILE STORAGE AREAS OR SPREAD THINLY ACROSS THE DISTURBED AREA, STABILIZE THE REMOVED SEDIMENT IT IS RELOCATED.
- REGULAR INSPECTIONS OF SEDIMENT TRAPS SHOULD BE CONDUCTED ONCE EVERY CALENDAR WEEK AND, AS RECOMMENDED, AND WITHIN 24-HOURS AFTER EACH RAINFALL EVENT THAT PRODUCES 1/2-INCH OR MORE OF PRECIPITATION.
- DISTURBED AREAS RESULTING FROM THE REMOVAL OF THE SEDIMENT TRAP SHOULD BE PERMANENTLY STABILIZED AND ADDITIONAL BMP'S, SUCH AS SILT FENCE, SHOULD BE UTILIZED TO HANDLE STORMWATER RUNOFF FROM THIS DISTURBED AREA UNTIL FINAL STABILIZATION IS REACHED.

PLAN SYMBOL



1 SEDIMENT TRAP
 EC2.2 NTS



DESIGN BY: DRAWN BY: CHECKED BY:

DATE

REVISIONS

Jackson County
QUALLA WHITTIER PARK

Sunset Farms Rd.
 Whittier, NC 28789

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PHASE
 BID SET

DATE
 August 21, 2024

DRAWING SCALE
 AS SHOWN
 NOTE: If this drawing is not 24x36" it has been revised from its original size and the scales noted on drawings/details are no longer applicable.

DRAWING NAME
 EROSION CONTROL DETAILS

EC2.2

**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 the permit. If the inspection is delayed, the permittee shall notify the Division in writing. The permittee shall perform all self-inspection activities in accordance with the requirements of this permit. The permittee shall be responsible for the safety of all personnel performing the inspection. The permittee shall be notified in the inspection report.

| Inspect | Frequency (during normal business hours) | Inspection records must include: |
|---|---|--|
| (1) Rain gauge discharge good working order | Daily | Daily rainfall amounts. Observations are made during weekend or holiday periods, and no individual-day rainfall information is available, record the cumulative rain measurement for those unattended days (note: this will determine if a site inspection is warranted). The permittee may use another rain-measuring device "near" the permittee may use another rain-measuring device approved by the Division. |
| (2) EESC Measures | At least once per 7 calendar days and within 24 hours | 1. Identification of the measures inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection, properly, day of maintenance needs for the measures. 4. Indication of whether the measures were operating properly. 5. Description, evidence, and date of corrective actions taken. |
| (3) Stormwater discharge outfalls (DOCs) | At least once per 7 calendar days and within 24 hours of a rain event 2.0 inch in | 1. Identification of the discharge outfalls inspected. 2. Date and time of the inspection. 3. Name of the person performing the inspection, properly, day of maintenance needs for the measures. 4. Evidence of indicators of stormwater pollution such as oil sheen, floating or suspended solids or discoloration. 5. Indication of visible sediment leaving the site. 6. Description, evidence, and date of corrective actions taken. |
| (4) Perimeter of site | At least once per 7 calendar days and within 24 hours of a rain event 2.0 inch in | If visible sedimentation is found outside site limits, then a record of the following shall be made: 1. Actions taken to clean up or stabilize the sediment that has left the site. 2. Description, evidence, and date of corrective actions taken, and reasons. 3. An explanation of the actions taken to control future rain events. |
| (5) Swales or offsite (where accessible) | At least once per 7 calendar days and within 24 hours of a rain event 2.0 inch in | If swales or offsite have increased turbidity, sedimentation or a stream has visible increased turbidity from the construction activity, then a record of the following shall be made: 1. Description, evidence and date of corrective actions taken, and reasons. 2. Date and time of the inspection. 3. Name of the person performing the inspection, properly, day of maintenance needs for the measures. 4. Regional Office per Part III, Section C, Item (2)(f) of this permit. |
| (6) Ground stabilization measures | After each phase of grading | 1. The phase of grading (installation of perimeter EESC measures, clearing and grubbing, installation of stormwater management devices, construction or redevelopment, permanent ground cover). 2. Documentation that the required ground stabilization measures have been installed and maintained in accordance with the timeframe or an assurance that they will be provided as soon as possible. |

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

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

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

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

**PART III
SELF-INSPECTION, RECORDKEEPING AND REPORTING**

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

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

Item to Document Documentation Requirements

- 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.
- 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 plan or complete, date and sign an inspection report to indicate the completion of the construction phase.
- Ground cover is located and installed in accordance with the approved E&SC plan.
- The maintenance and repair requirements for all E&SC measures have been performed.
- Corrective actions have been taken to E&SC measures.

2. Additional Documentation to be Kept on Site

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

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

3. Documentation to be Retained for Three Years

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

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

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

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department 5 Environmental Emergency Center personnel at (800) 855-0368.

Occurrence

Reporting Timeframes (After Discovery) and Other Requirements

- Visible sediment deposition in a stream or wetland:
 - Within 24 hours, an oral or electronic notification. Division staff may take the requirement for a written report on a case-by-case basis.
 - Within 24 hours, a report that contains a description of the sediment and actions taken to address the cause of the deposition.
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 - Within 24 hours, a report that contains a description of the sediment and actions taken to address the cause of the deposition.
- Oil spills and release of hazardous substances, per item 1(b)-(c) above:
 - Anticipated bypasses: 140 CFR 122.41(m)(3)
 - Unanticipated bypasses: 140 CFR 122.41(m)(3)
 - Within 24 hours, an oral or electronic notification. The report shall include an evaluation of the anticipated quality and effect of the bypass.
 - Within 24 hours, a report that includes an evaluation of the effect of the bypass.
 - Within 24 hours, a report that includes an evaluation of the effect of the bypass.
 - Within 24 hours, a report that includes an evaluation of the effect of the bypass.
- Noncompliance with the conditions of this permit that may endanger health or the environment (40 CFR 122.41(l)(7)):
 - Within 24 hours, a report that contains a description of the 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 recurrence of the noncompliance. [40 CFR 122.41(l)(6).
 - Within 24 hours, a report that contains a description of the 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 recurrence of the noncompliance. [40 CFR 122.41(l)(6).
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- Case-by-case basis.

SECTION B: RECORDKEEPING

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- 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 plan or complete, date and sign an inspection report to indicate the completion of the construction phase.
- Ground cover is located and installed in accordance with the approved E&SC plan.
- The maintenance and repair requirements for all E&SC measures have been performed.
- Corrective actions have been taken to E&SC measures.

2. Additional Documentation to be Kept on Site

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

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

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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]

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

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- Anticipated bypasses and unanticipated bypasses.
- Noncompliance with the conditions of this permit that may endanger health or the environment.

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department 5 Environmental Emergency Center personnel at (800) 855-0368.

Occurrence

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SECTION C: REPORTING

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- Anticipated bypasses and unanticipated bypasses.
- Noncompliance with the conditions of this permit that may endanger health or the environment.

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- Case-by-case basis.

SECTION C: REPORTING

1. Occurrences that Must be Reported

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

2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department 5 Environmental Emergency Center personnel at (800) 855-0368.

Occurrence

Reporting Timeframes (After Discovery) and Other Requirements

- Visible sediment deposition in a stream or wetland:
 - Within 24 hours, an oral or electronic notification. Division staff may take the requirement for a written report on a case-by-case basis.
 - Within 24 hours, a report that contains a description of the sediment and actions taken to address the cause of the deposition.
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 - Within 24 hours, a report that contains a description of the sediment and actions taken to address the cause of the deposition.
- Oil spills and release of hazardous substances, per item 1(b)-(c) above:
 - Anticipated bypasses: 140 CFR 122.41(m)(3)
 - Unanticipated bypasses: 140 CFR 122.41(m)(3)
 - Within 24 hours, an oral or electronic notification. The report shall include an evaluation of the anticipated quality and effect of the bypass.
 - Within 24 hours, a report that includes an evaluation of the effect of the bypass.
 - Within 24 hours, a report that includes an evaluation of the effect of the bypass.
 - Within 24 hours, a report that includes an evaluation of the effect of the bypass.
- Noncompliance with the conditions of this permit that may endanger health or the environment (40 CFR 122.41(l)(7)):
 - Within 24 hours, a report that contains a description of the 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 recurrence of the noncompliance. [40 CFR 122.41(l)(6).
 - Within 24 hours, a report that contains a description of the 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 recurrence of the noncompliance. [40 CFR 122.41(l)(6).
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- Case-by-case basis.

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

- Visible sediment deposition in a stream or wetland.
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 - They are 25 gallons or more,
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- Case-by-case basis.

SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

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 - They are 25 gallons or more,
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SECTION C: REPORTING

1. Occurrences that Must be Reported

Permittees shall report the following occurrences:

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- Anticipated bypasses and unanticipated bypasses.
- Noncompliance with the conditions of this permit that may endanger health or the environment.

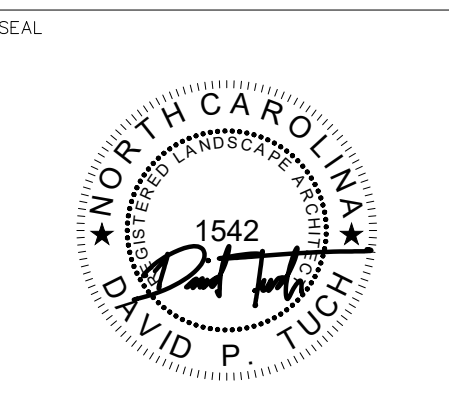
2. Reporting Timeframes and Other Requirements

After a permittee becomes aware of an occurrence that must be reported, he shall contact the appropriate Division regional office within the timeframes and in accordance with the other requirements listed below. Occurrences outside normal business hours may also be reported to the Department 5 Environmental Emergency Center personnel at (800) 855-0368.

Occurrence

Reporting Timeframes (After Discovery) and Other Requirements

- Visible sediment deposition in a stream or



DESIGN BY: DRAWN BY: CHECKED BY:

| DATE | REVISIONS |
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Jackson County
QUALLA WHITTIER PARK
 Sunset Farms Rd.
 Whittier, NC 28789

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PHASE: **BID SET**

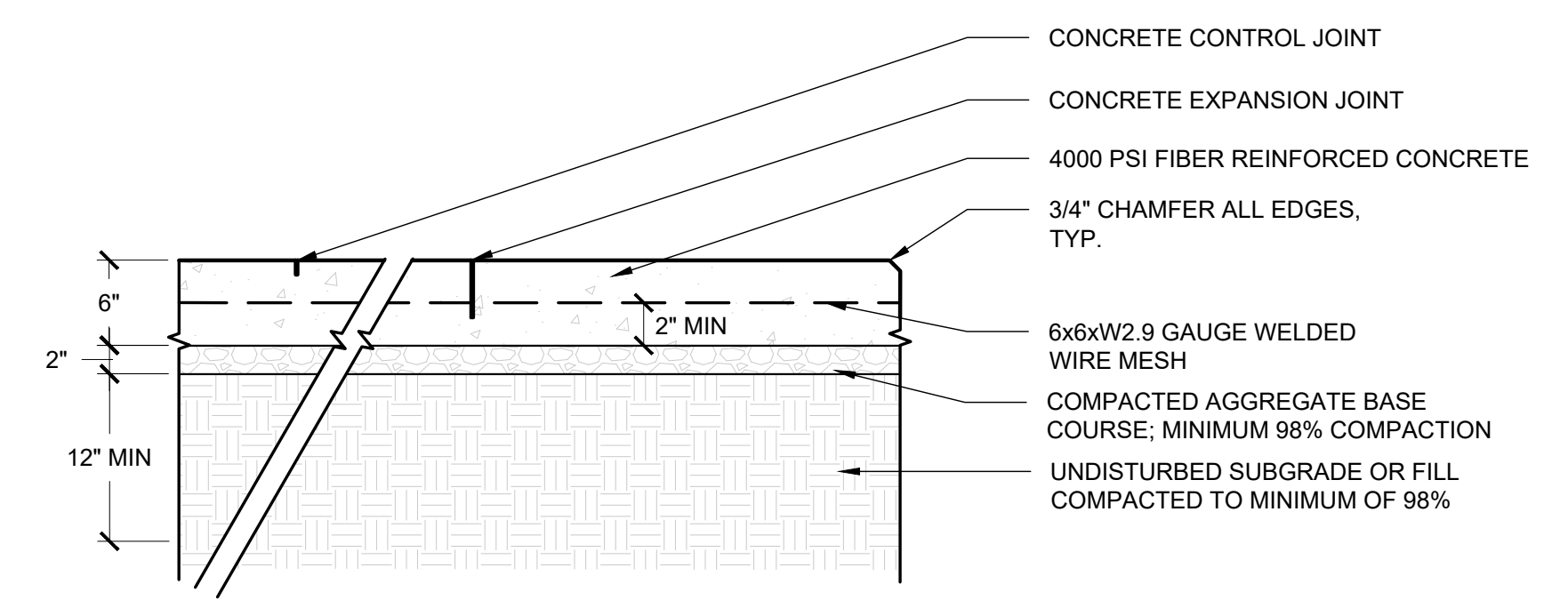
DATE: **August 21, 2024**

DRAWING SCALE: **AS SHOWN**
 NOTE: If this drawing is not 24x36" it has been revised from its original size and the scales noted on drawings/details are no longer applicable.

DRAWING NAME: **PAVING DETAILS**

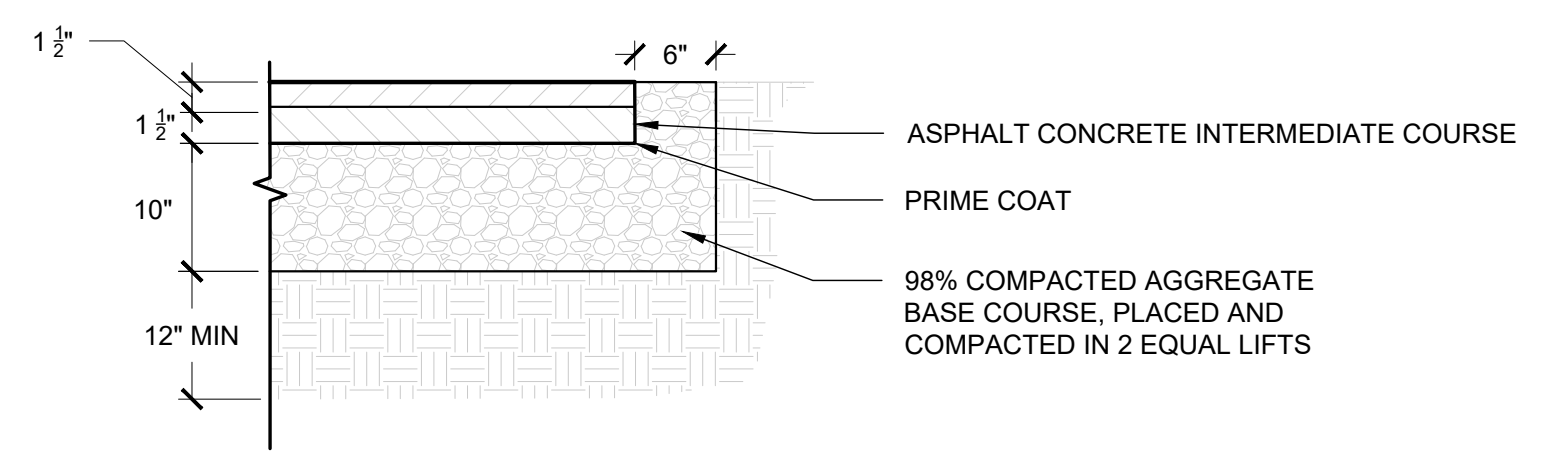
PAVING DETAILS

L8.0



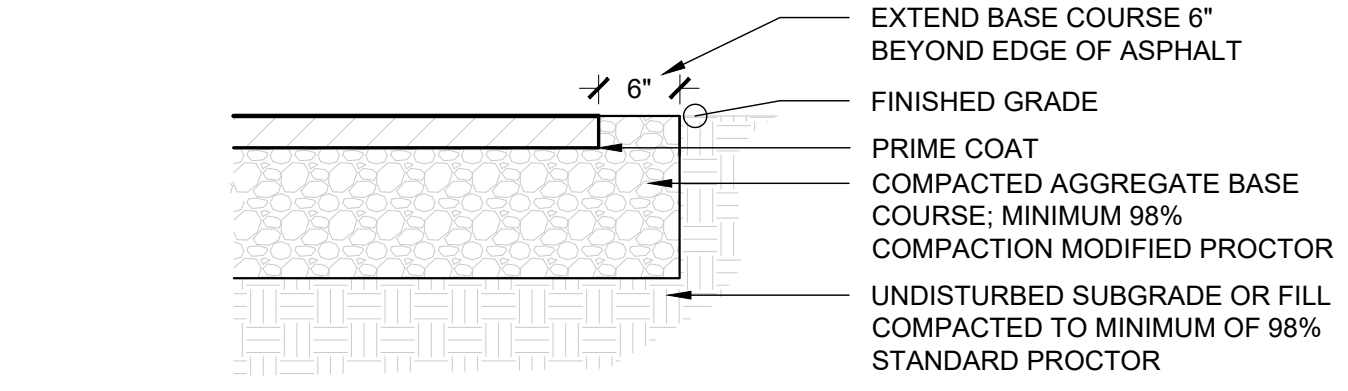
- NOTES:**
1. CONCRETE TO BE 1/2" TO 3/4" ABOVE THE GRADE IF ADJACENT TO VEGETATED SURFACE AND FLUSH WITH HARD SURFACE TO ACHIEVE POSITIVE DRAINAGE.
 2. PLACE A 1/8" SAW CUT CONTROL JOINT AS SHOWN ON PLAN TO 1 1/2" DEPTH.
 3. PLACE A 1/8" EXPANSION JOINT AT EVERY MATERIAL CHANGE.
 4. FINISH PER MATERIALS PLAN, SHEET L4.1/2/3.

3 CONCRETE PAVING - PEDESTRIAN (CP1)
 L8.0 1"=1"



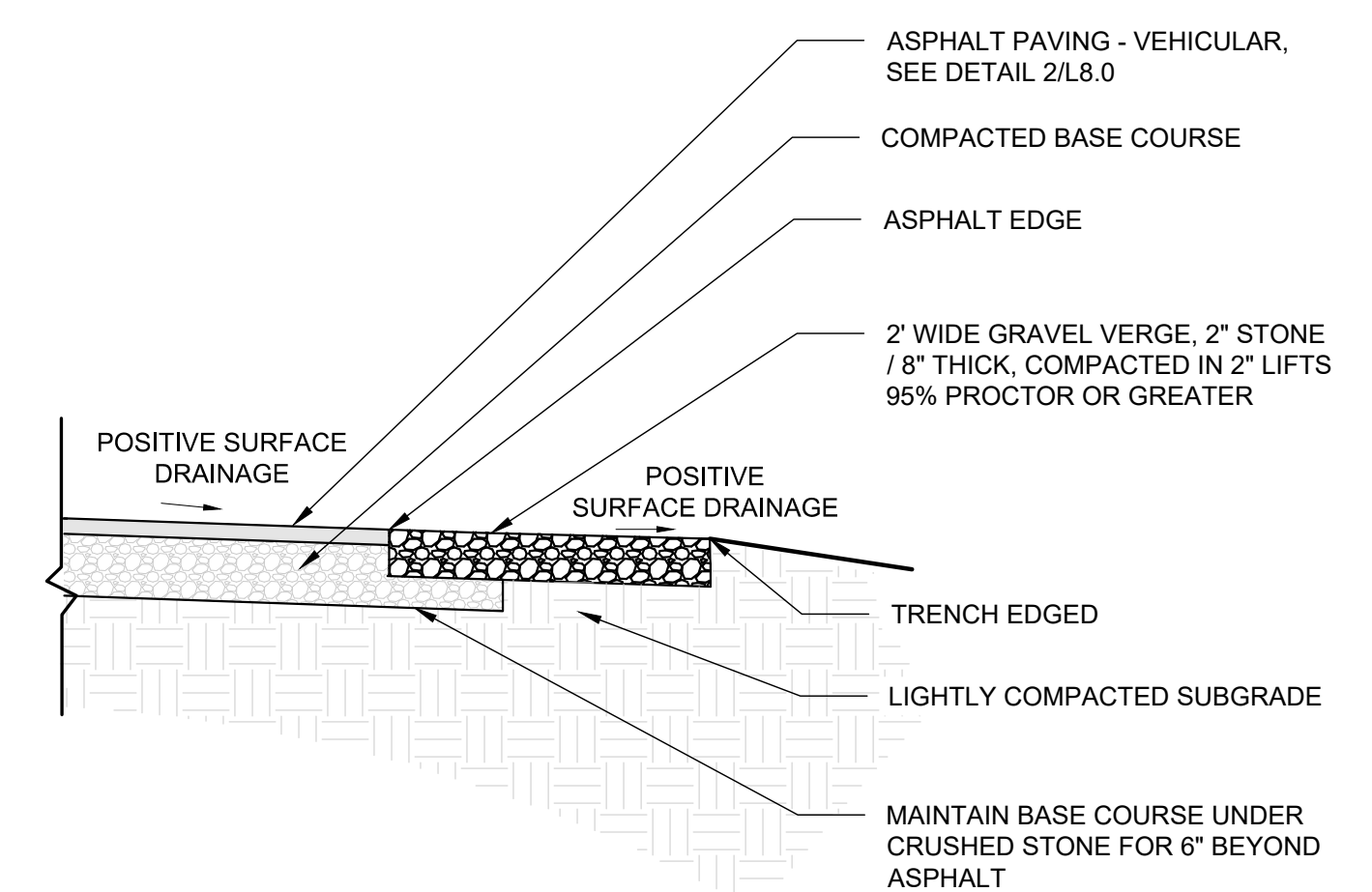
- NOTES:**
1. ALL PAVING WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE NC DOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
 2. ALL ASPHALT PAVEMENT AND BASE COURSE THICKNESS SPECIFIED SHALL BE AFTER COMPACTION.
 3. SUBGRADE AND BASE COURSE SHALL BE MECHANICALLY COMPACTED (ROLLED) IN ACCORDANCE WITH ASTM D698.
 4. POSITIVE DRAINAGE IS REQUIRED FOR ALL FINISHED GRADES OF BASE COURSES AND SURFACE COURSES TO ENSURE PROPER DRAINAGE AND NO SETTLING OCCURS (MIN.1%).

2 ASPHALT PAVING - VEHICULAR (AP2)
 L8.0 1"=1"

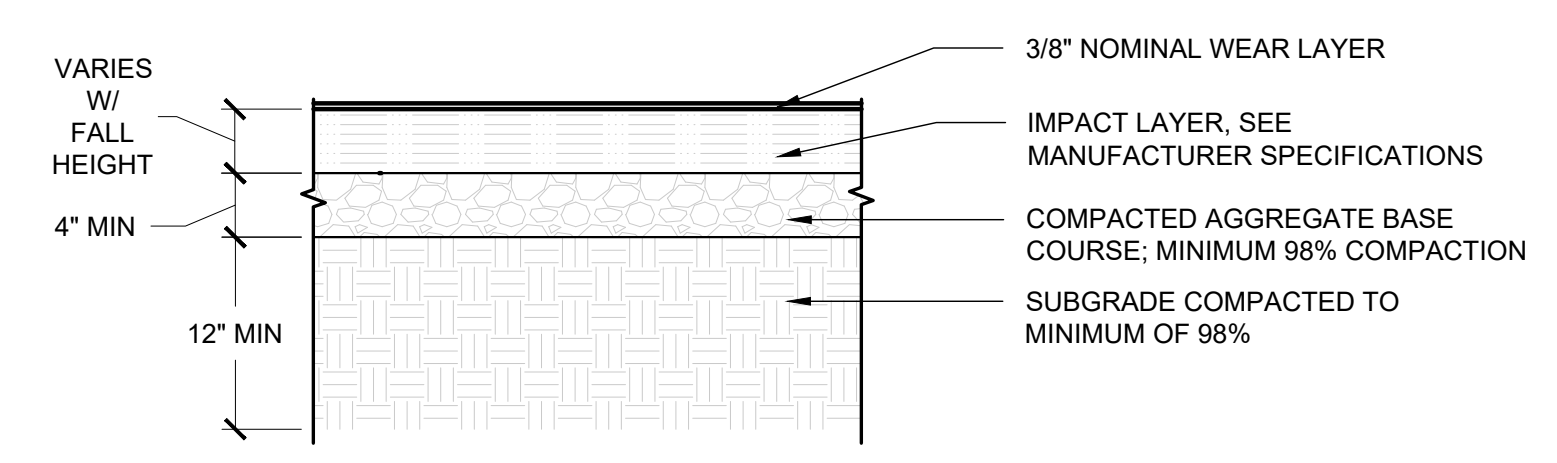


- NOTES:**
1. ALL PAVING WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE NC DOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES.
 2. ALL ASPHALT PAVEMENT AND BASE COURSE THICKNESS SPECIFIED SHALL BE AFTER COMPACTION.
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1 ASPHALT PAVING - PEDESTRIAN (AP1)
 L8.0 1"=1"

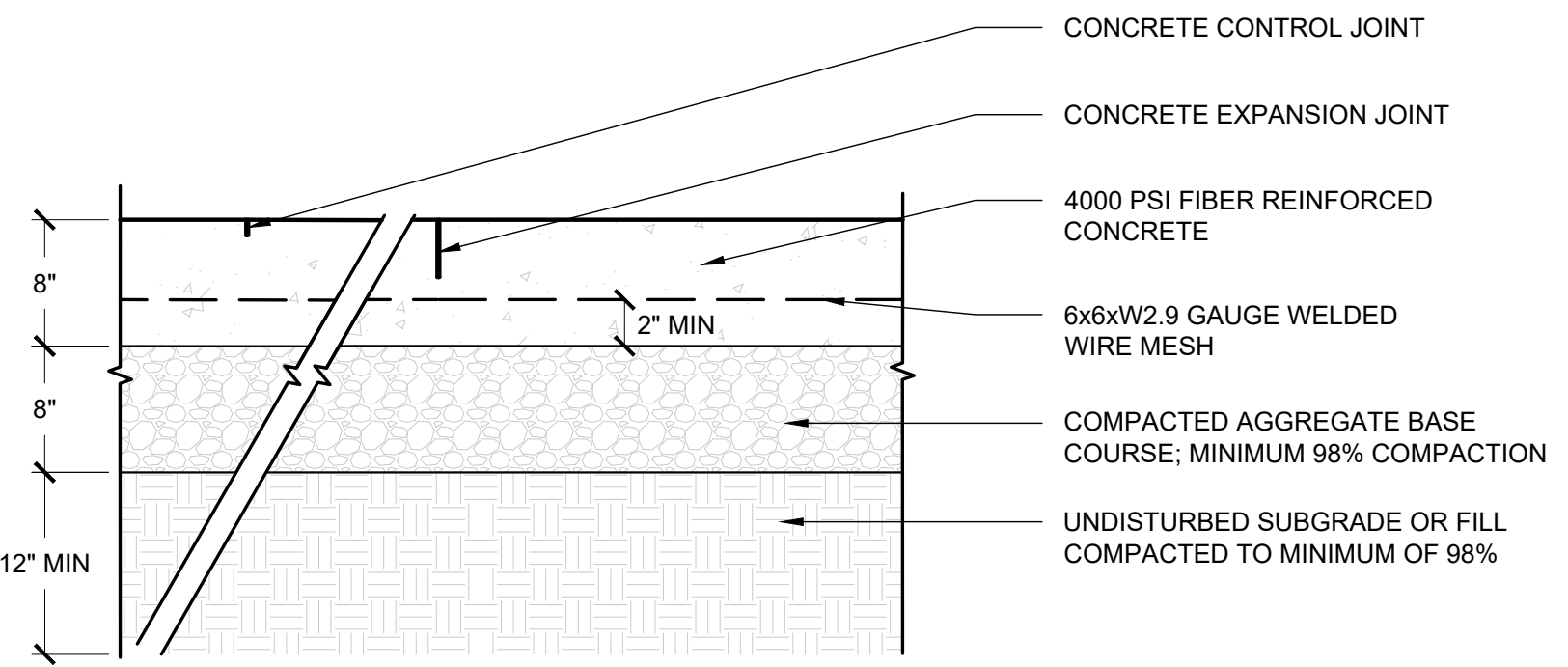


6 GRAVEL VERGE
 L8.0 1"=2"



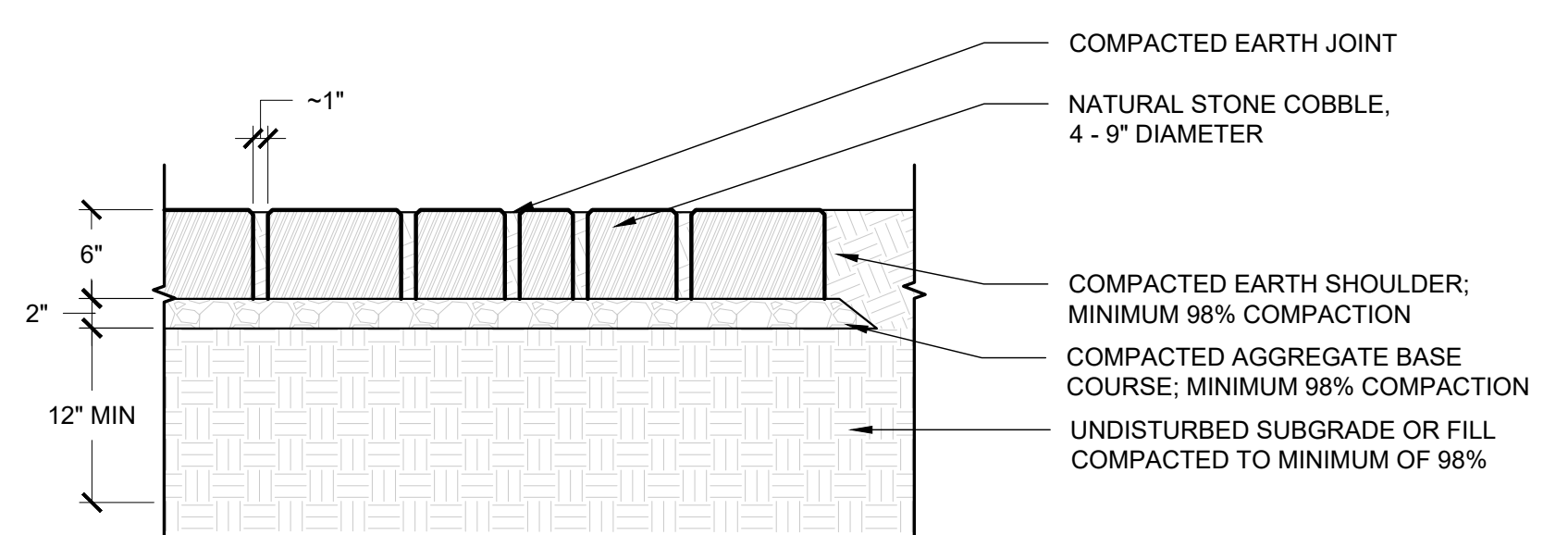
- NOTES:**
1. SURFACE TO BE 1/2" TO 3/4" ABOVE THE GRADE IF ADJACENT TO VEGETATED SURFACE AND FLUSH WITH HARD SURFACE TO ACHIEVE POSITIVE DRAINAGE.
 2. PLACE A 1/8" EXPANSION JOINT AS RECOMMENDED BY MANUFACTURER.

5 PLAY SURFACE - POUR IN PLACE
 L8.0 1"=1"



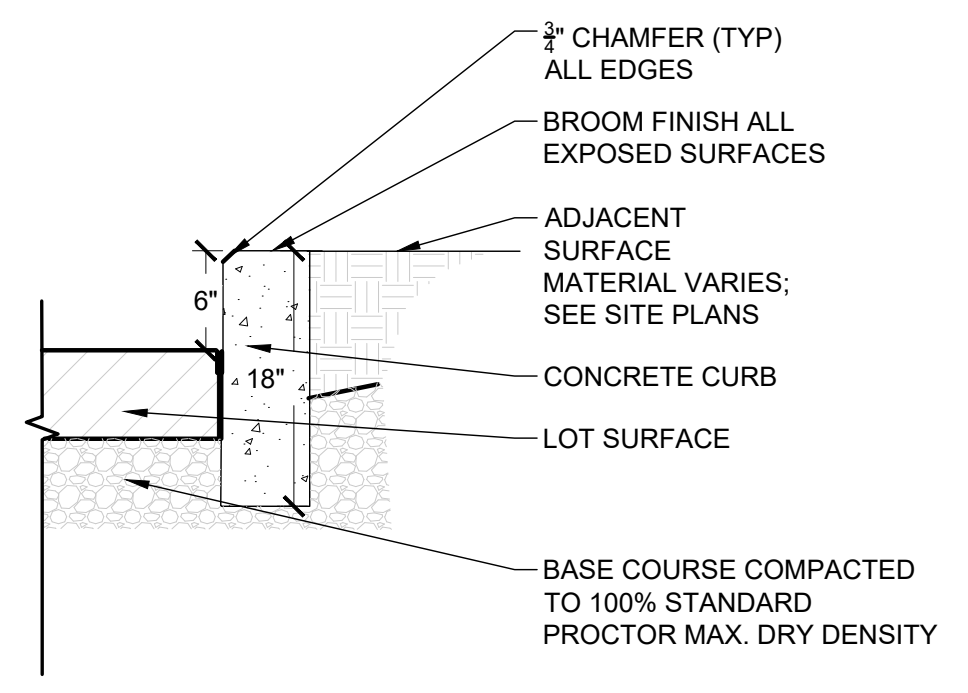
- NOTES:**
1. CONCRETE TO BE 1/2" TO 3/4" ABOVE THE GRADE IF ADJACENT TO A VEGETATED SURFACE AND FLUSH WITH HARD SURFACE TO ACHIEVE POSITIVE DRAINAGE.
 2. PLACE A 1/8" SAW CUT CONTROL JOINT AS SHOWN ON PLAN TO 1 1/2" DEPTH.
 3. PLACE A 1/8" EXPANSION JOINT AT EVERY MATERIAL CHANGE.
 4. FINISH PER MATERIALS PLAN, SHEET L4.1/2/3.

4 CONCRETE PAVING - VEHICULAR (CP2)
 L8.0 1"=1"

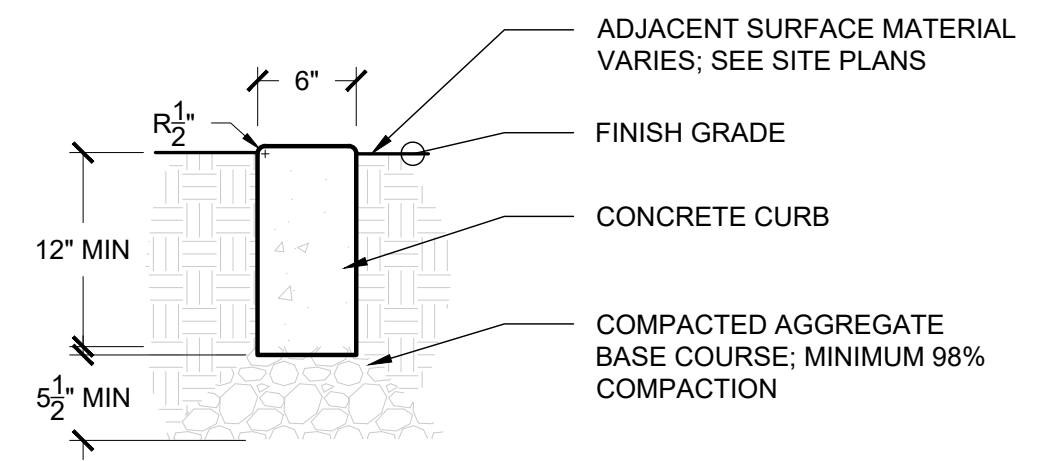


- NOTES:**
1. FOR MEANS OF CONSTRUCTION AND CROSS SLOPE, SEE NATURAL SURFACE TRAIL DETAILS (1, 2/L8.1)
 2. FOR EXTENTS, SEE LAYOUT PLAN, SHEET L3.1.

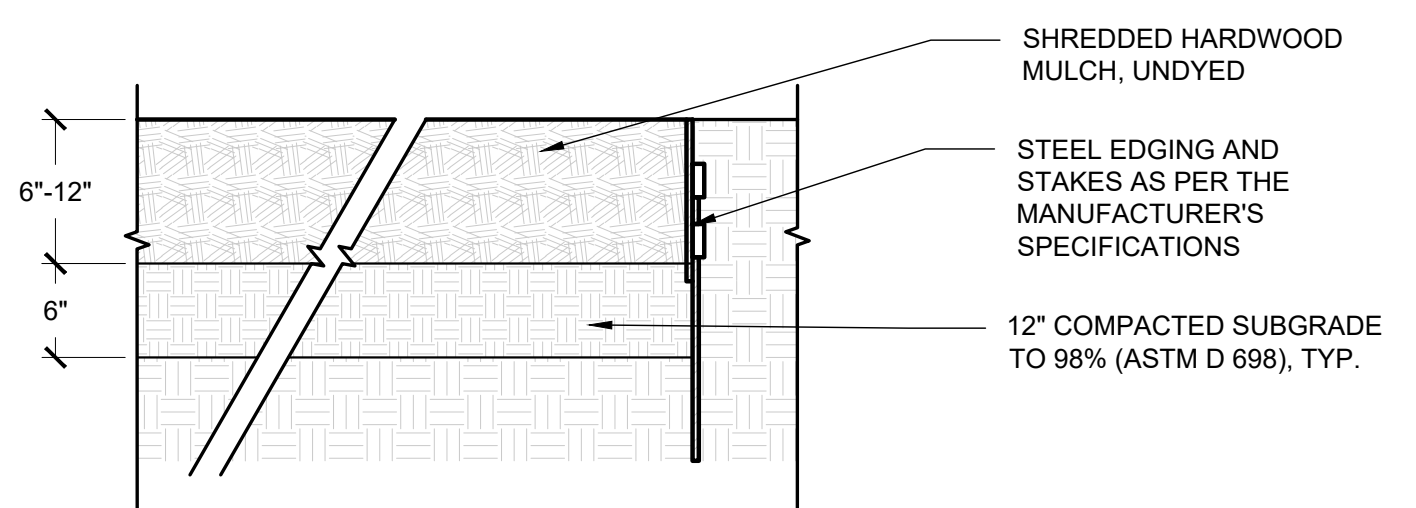
10 NATURAL SURFACE TRAIL - REINFORCED
 L8.0 1"=1"



9 CONCRETE CURB
 L8.0 1"=1"

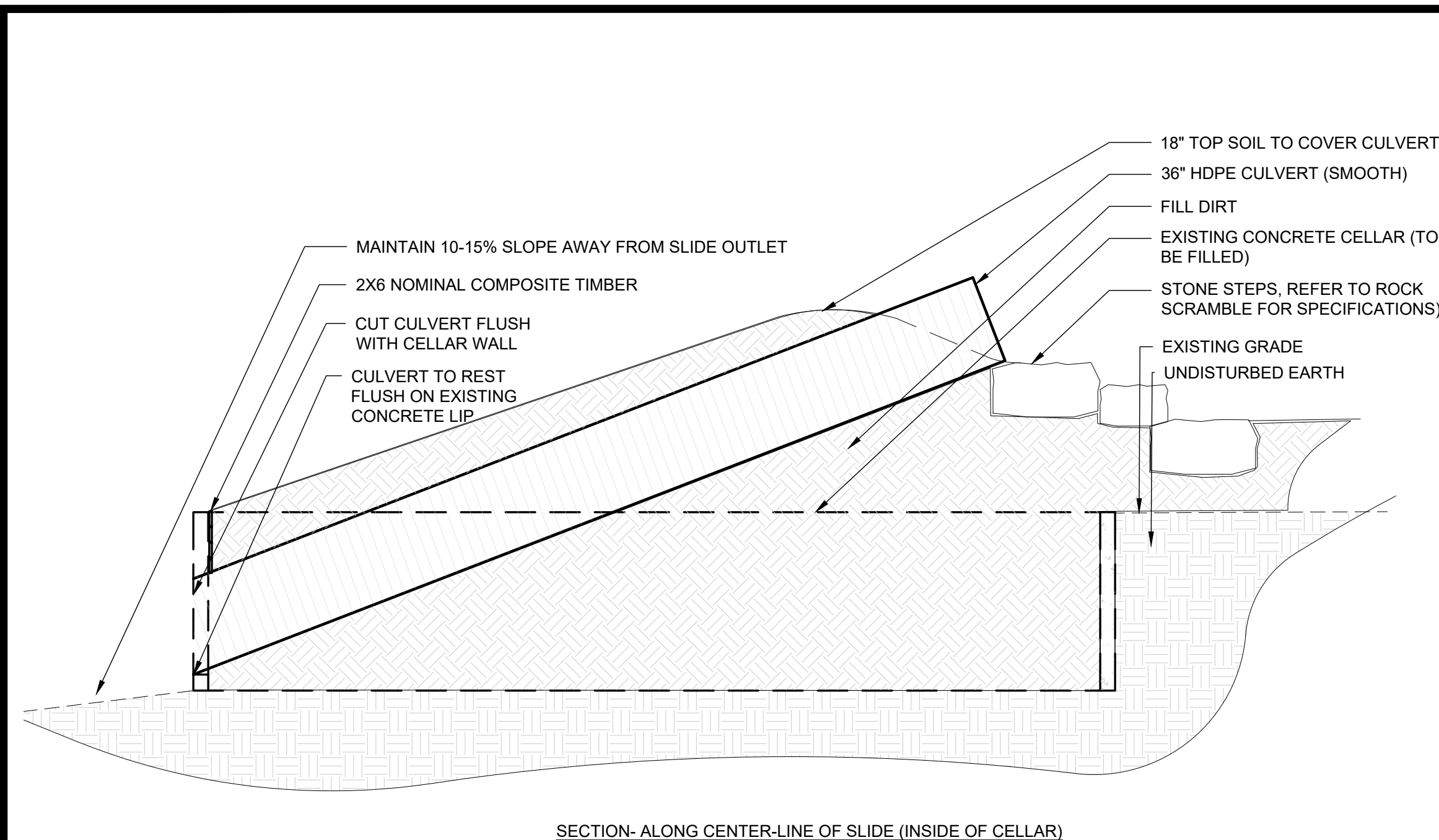


7 PLAYGROUND MULCH
 L8.0 1"=1"

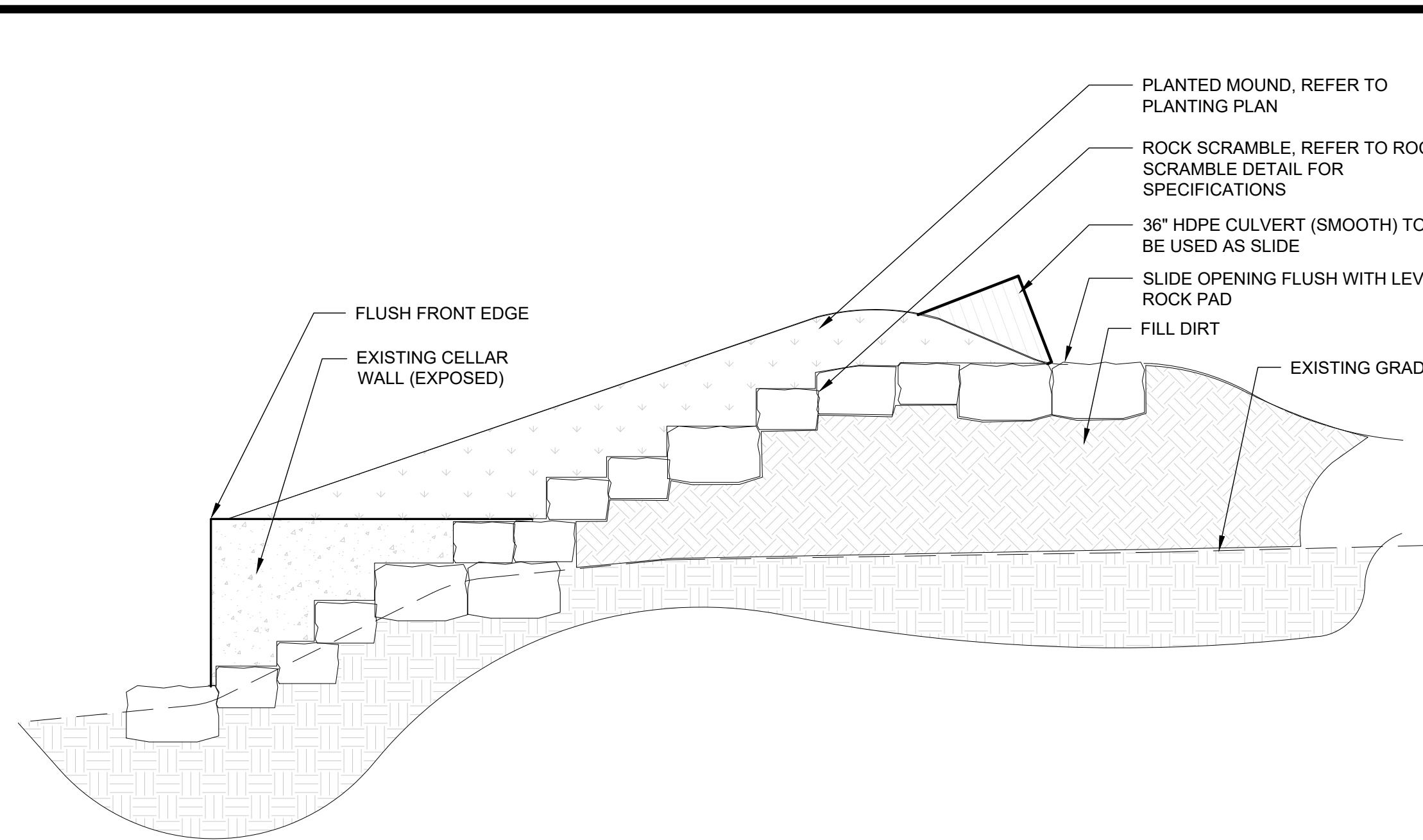


- NOTES:**
1. WITHIN FALL ZONES, MULCH DEPTH TO BE 9" MINIMUM.

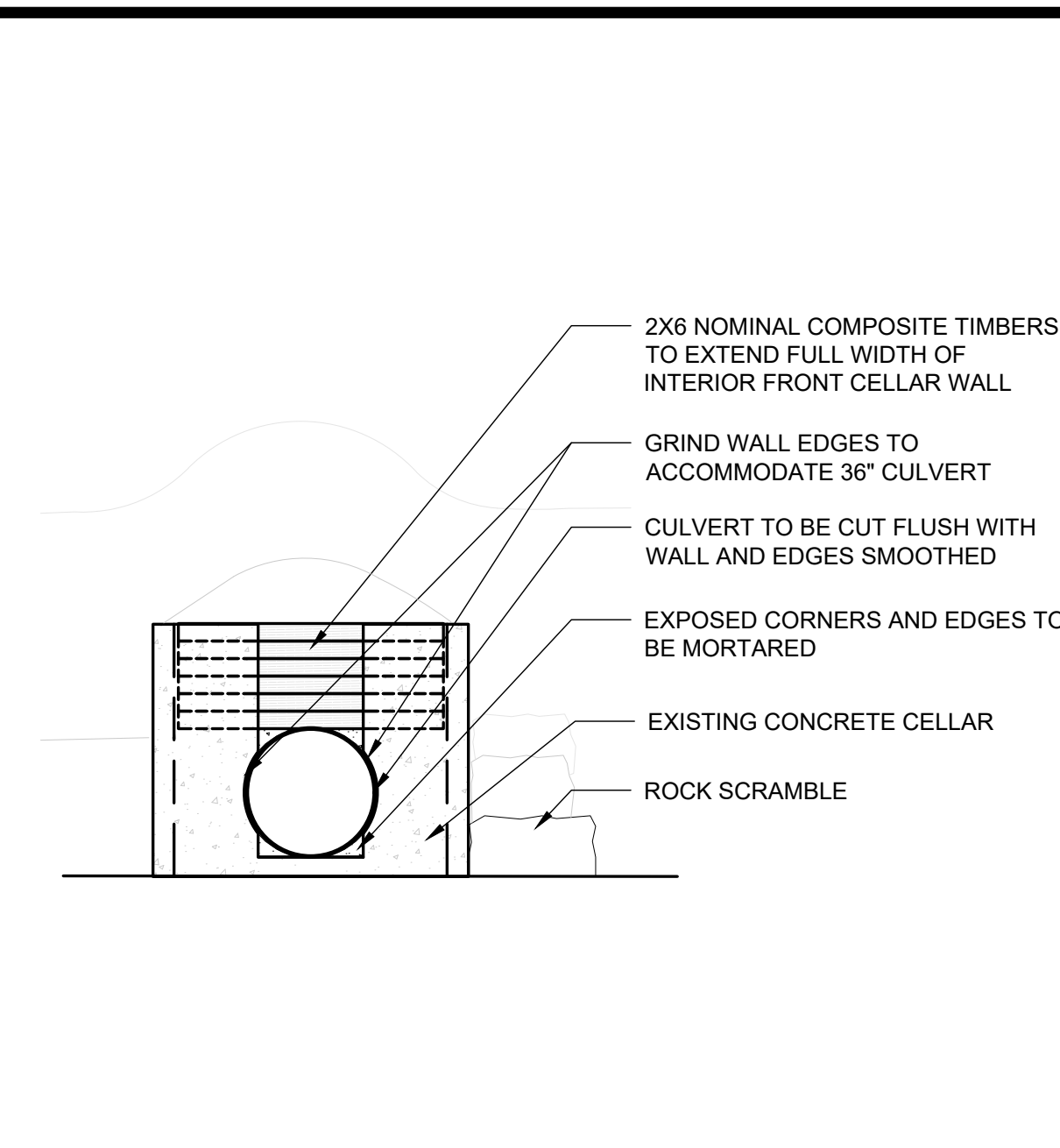
8 FLUSH CONCRETE CURB
 L8.0 1"=1"



SECTION- ALONG CENTER-LINE OF SLIDE (INSIDE OF CELLAR)



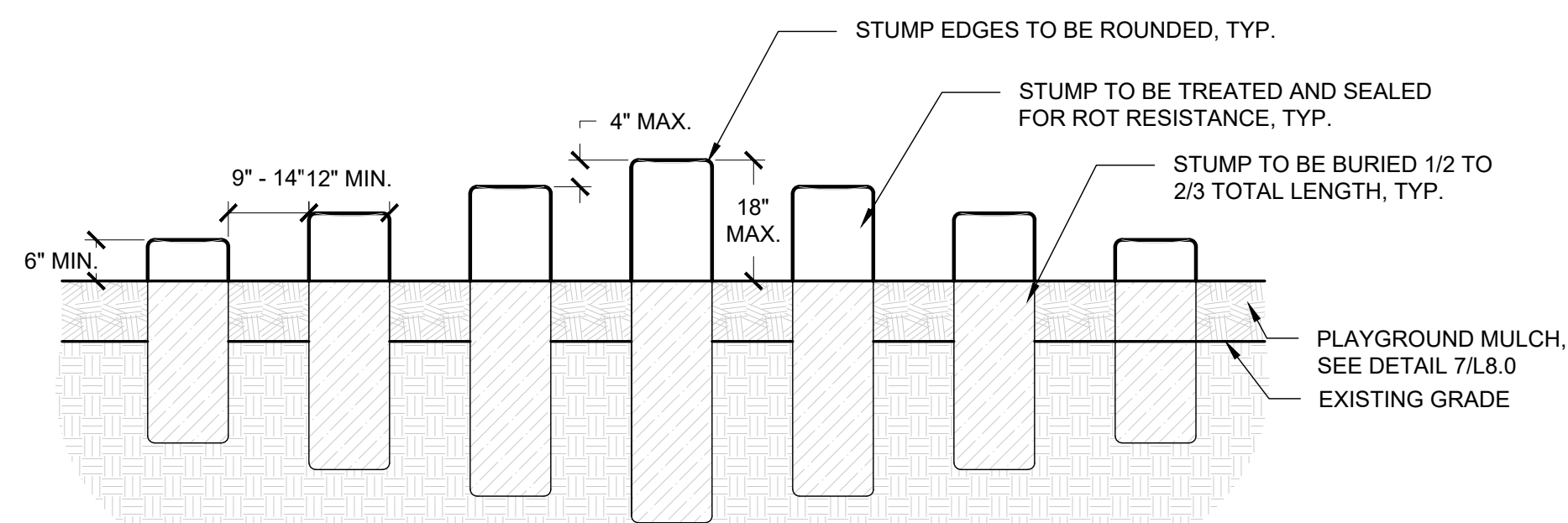
SECTION- ALONG ROCK SCRAMBLE (OUTSIDE OF CELLAR)



FRONT ELEVATION

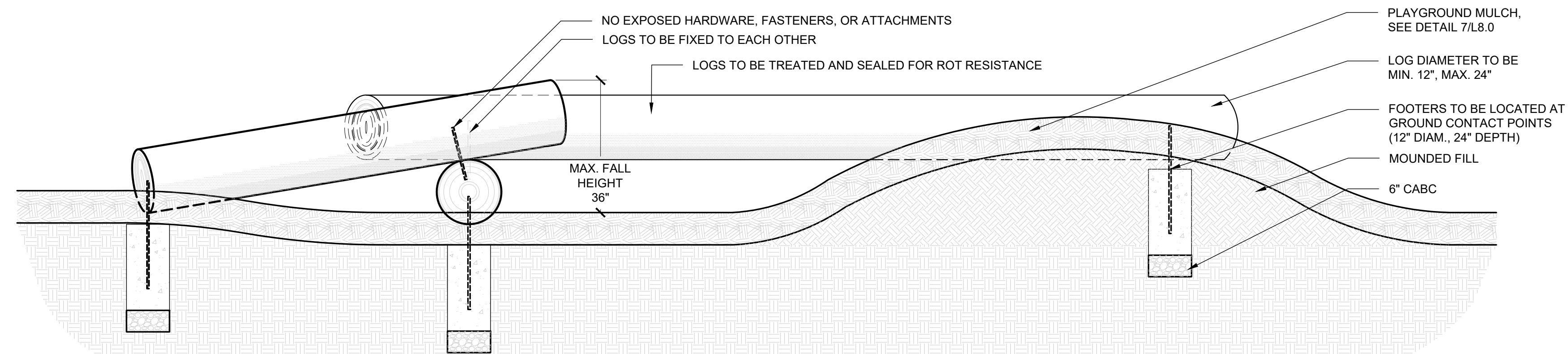
1 CULVERT SLIDE

L8.3 1"=4"



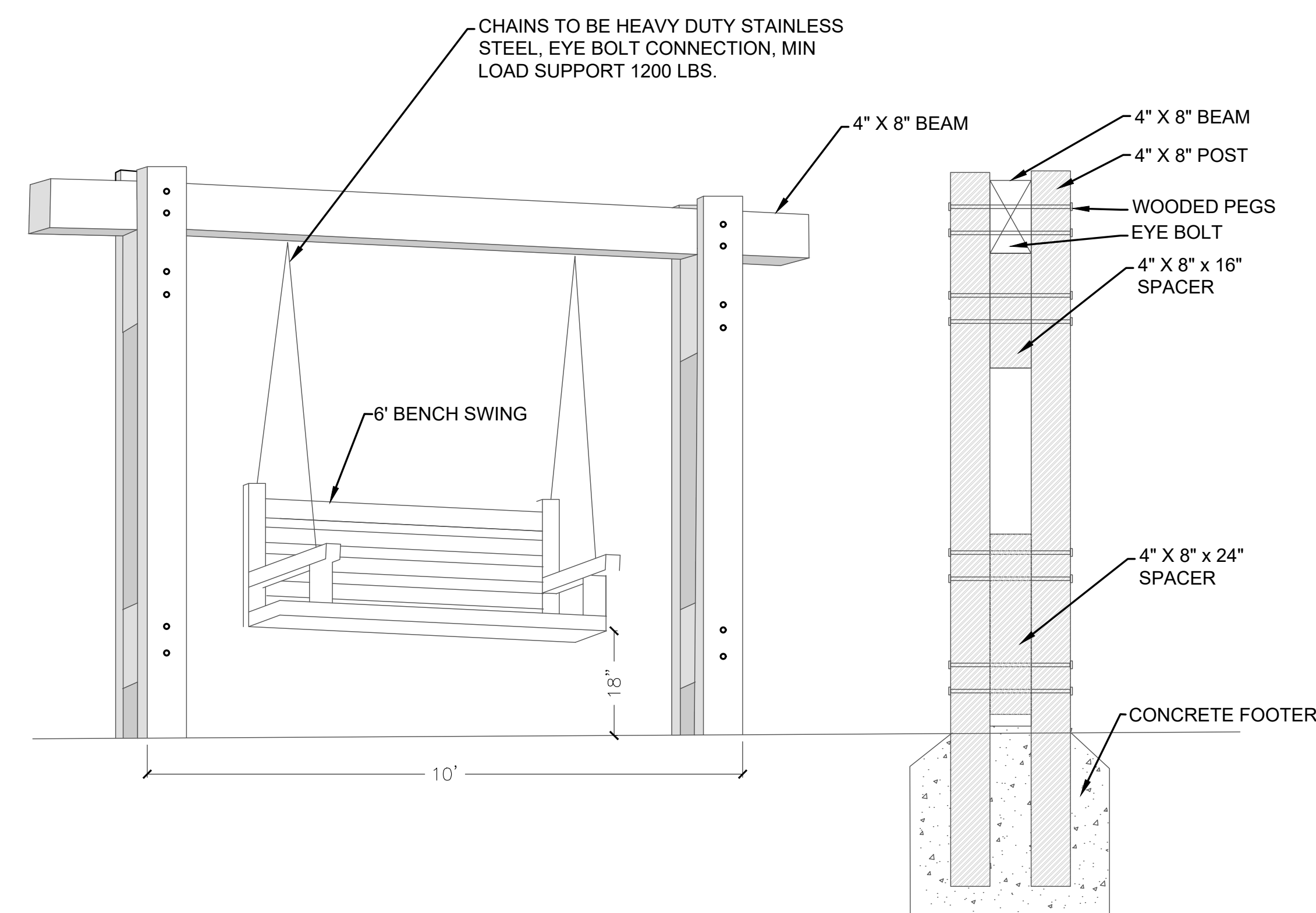
2 STEPPING STUMPS

L8.3 1"=2"



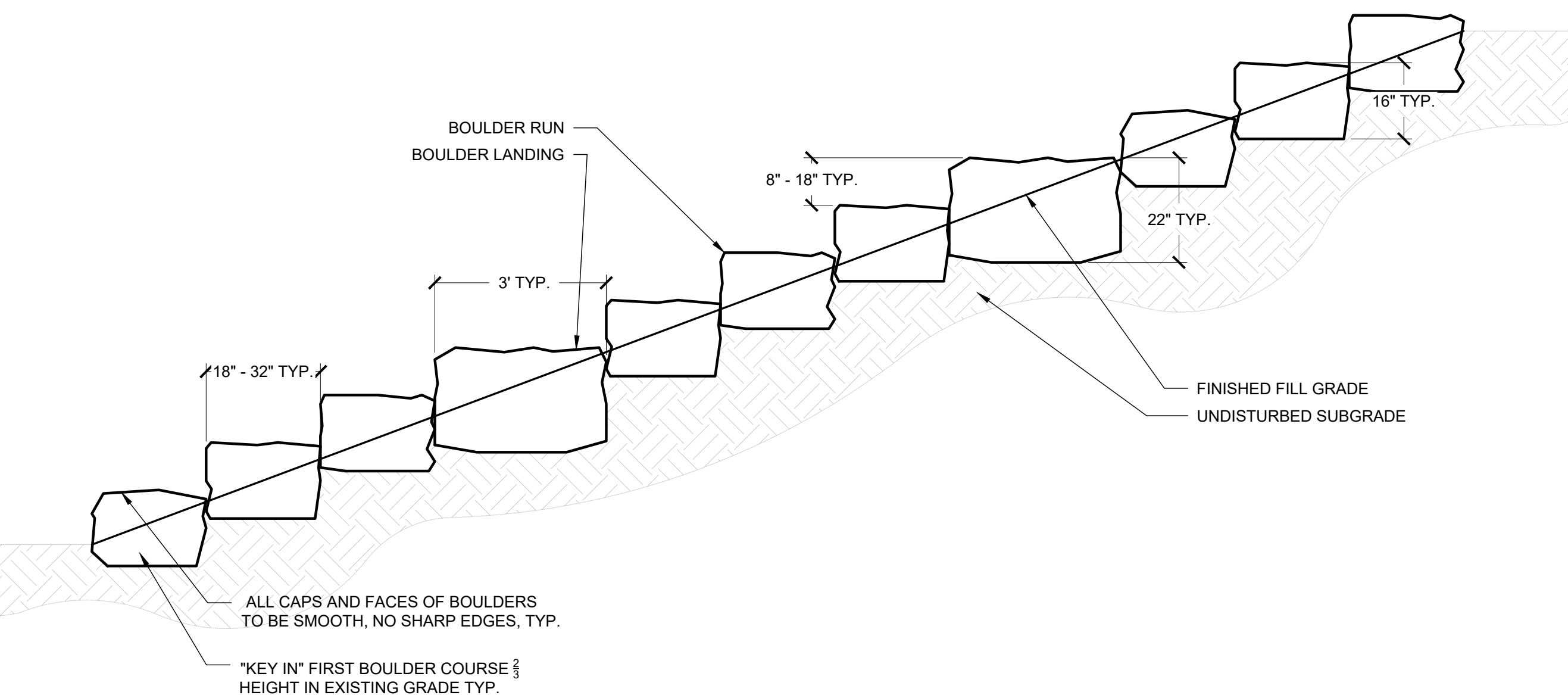
3 CLIMBING LOGS

L8.3 1"=2"



4 BENCH SWING

L8.3 NTS



5 ROCK SCRAMBLE (TYP.)

L8.3 1"=2"



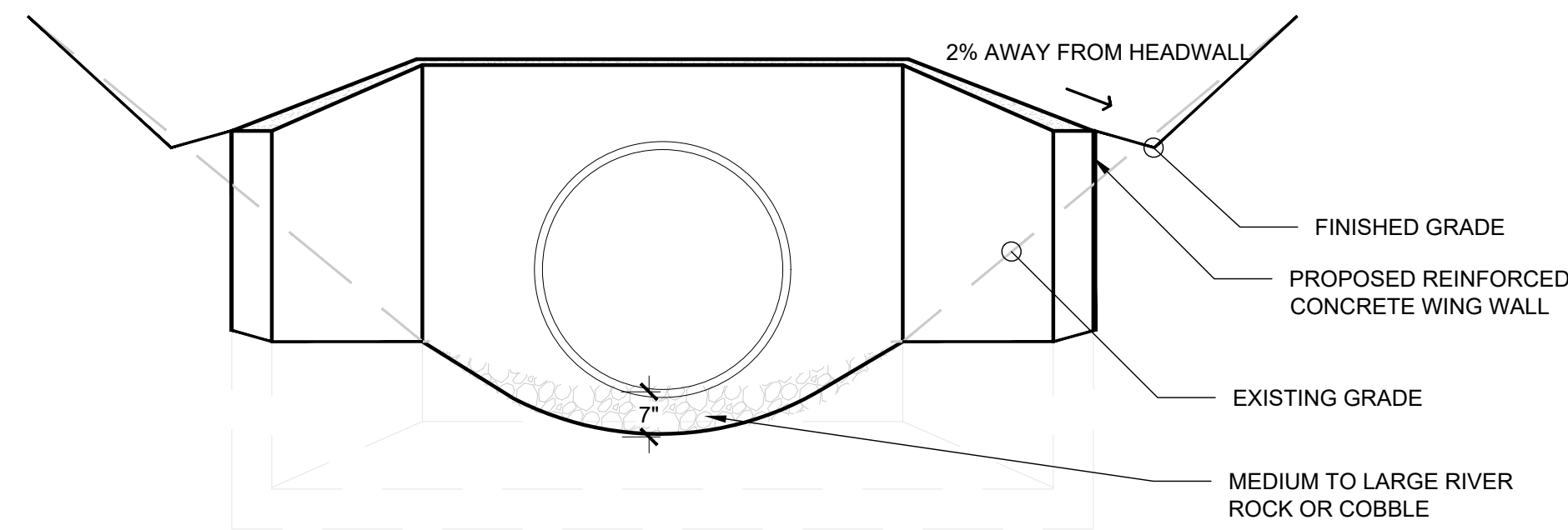
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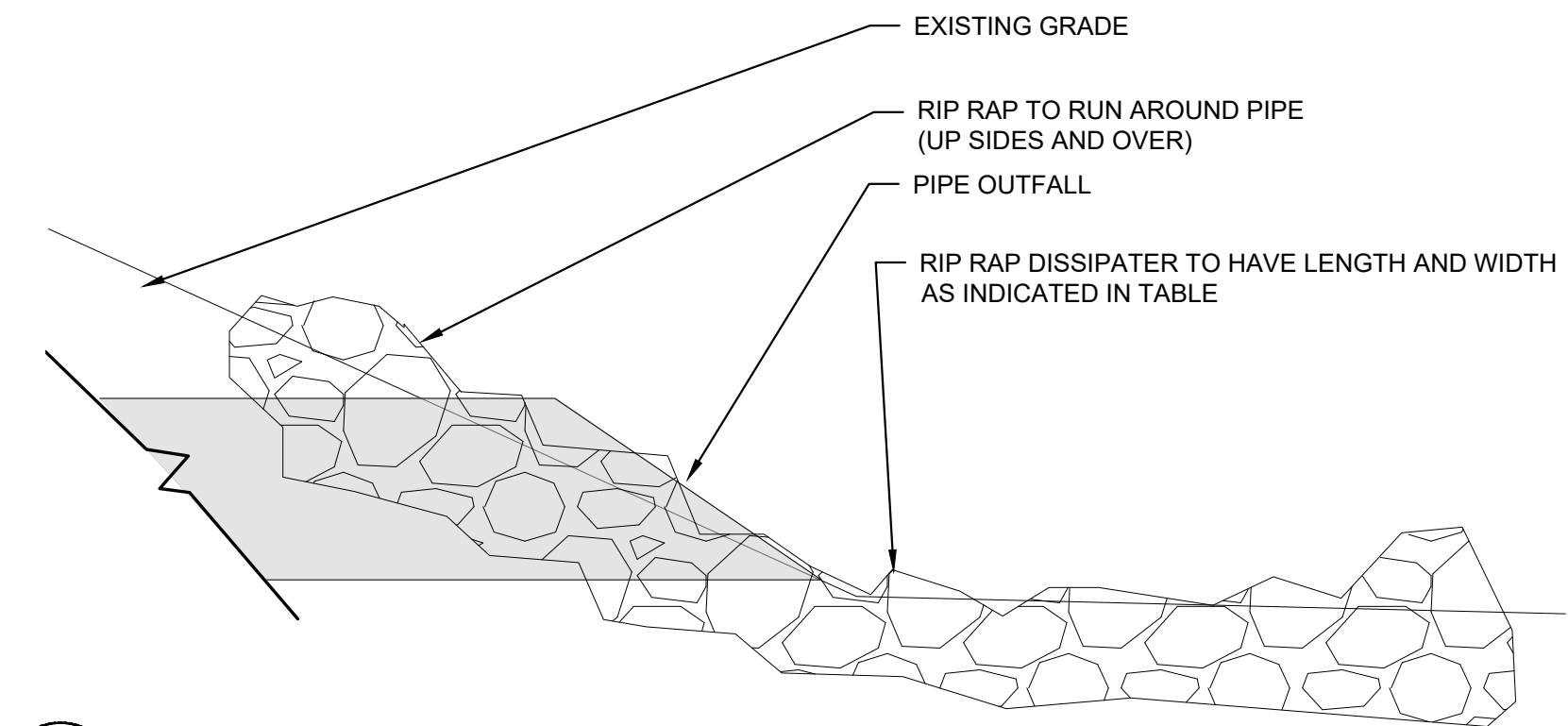
Jackson County
QUALLA WHITTIER PARK
 Sunset Farms Rd.
 Whittier, NC 28789

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 PHASE
BID SET
 DATE
August 21, 2024
 DRAWING SCALE
AS SHOWN
 NOTE: If this drawing is not 24x36" it has been revised from its original size and the scales noted on drawings/details are no longer applicable.
 DRAWING NAME
SITE DETAILS

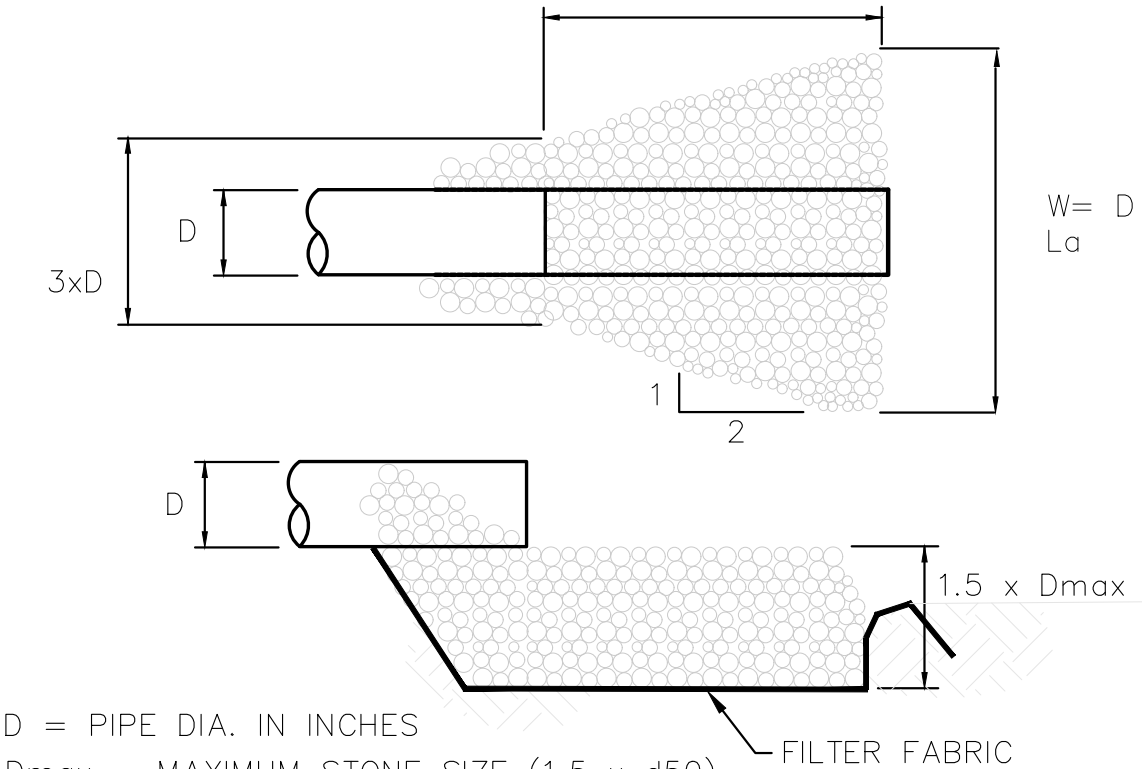
L8.3



1 HEADWALL
L8.5 1/2"=1'



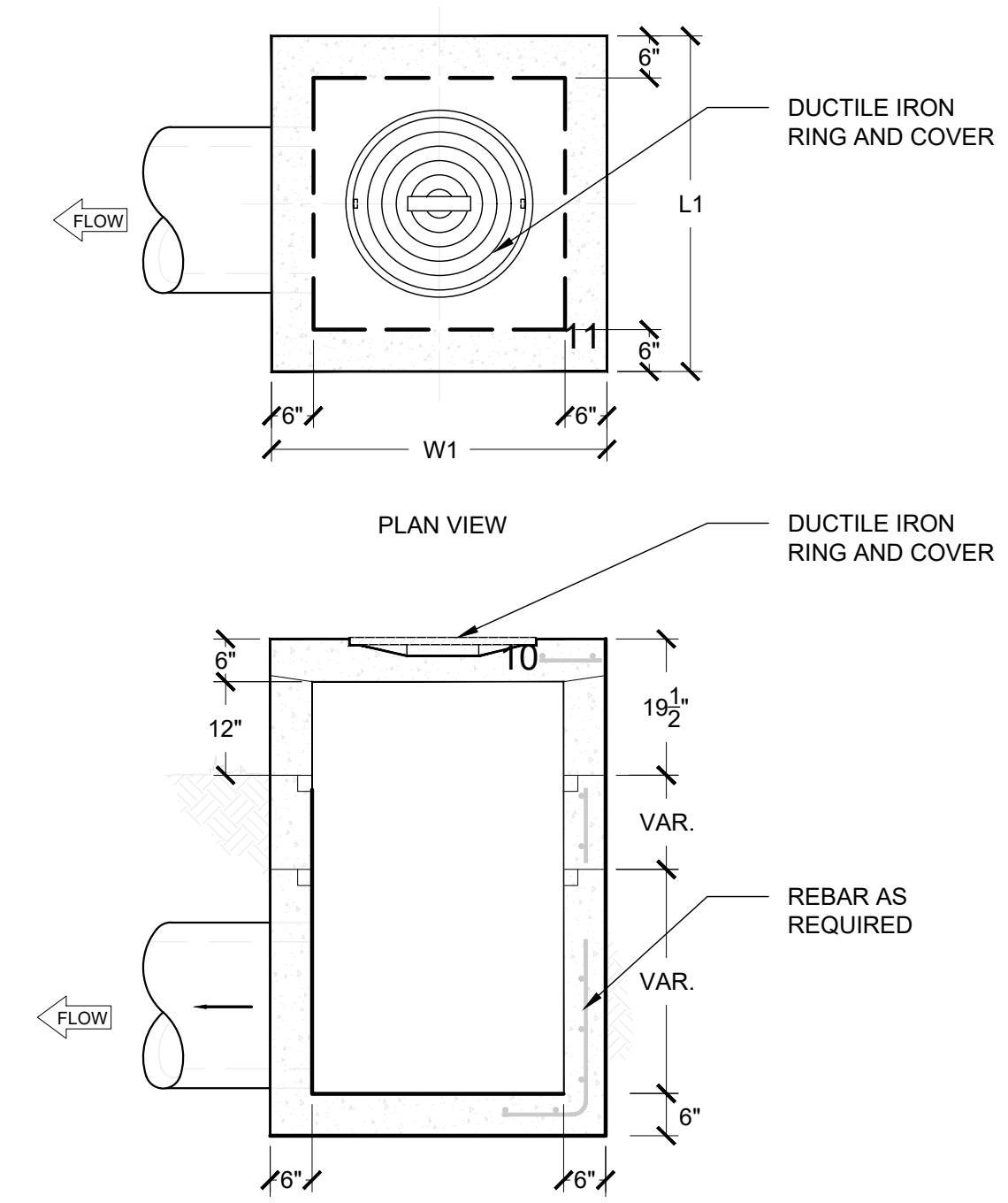
2 OUTLET PROTECTION
L8.5 1"=1'



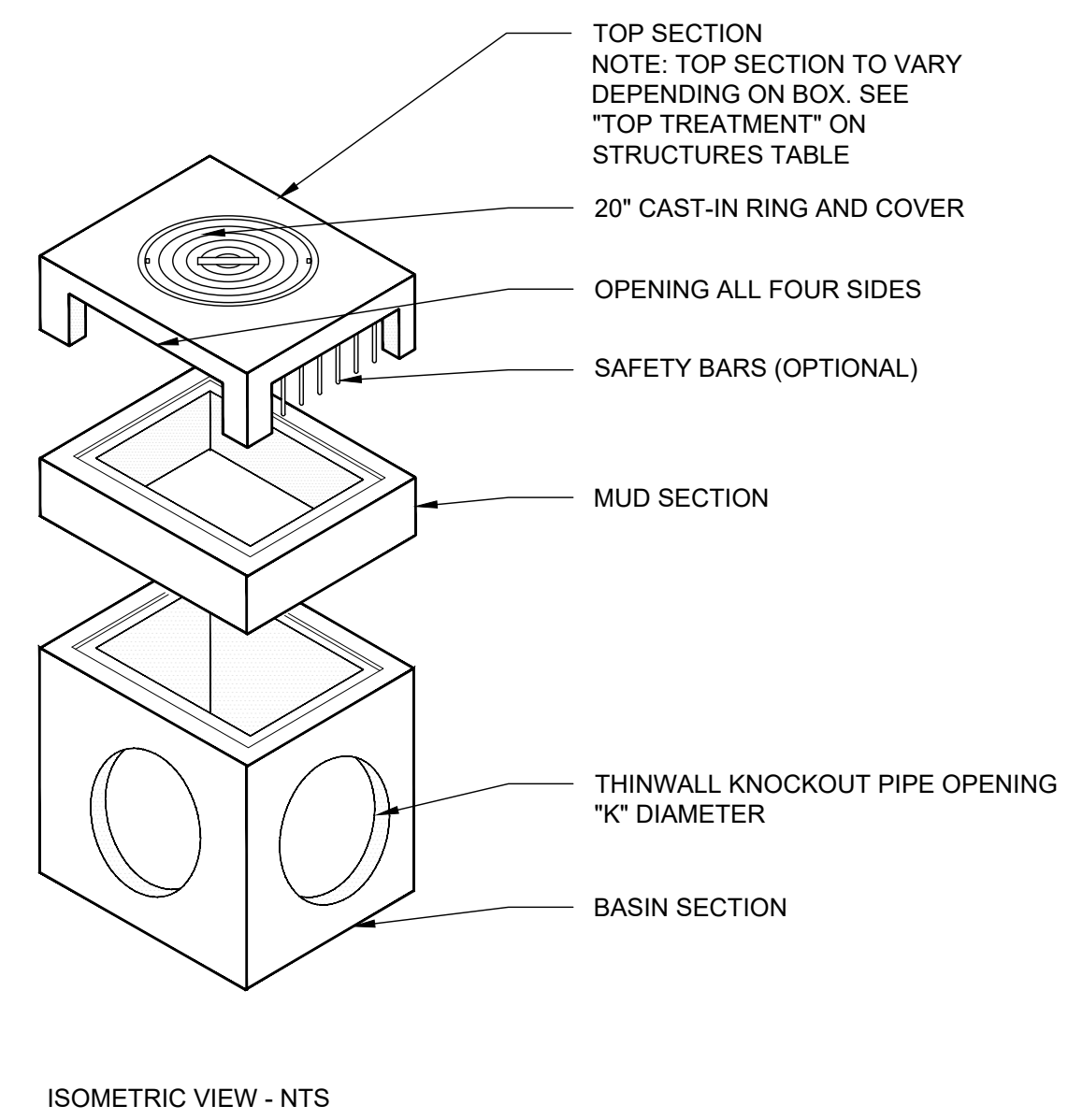
| PIPE OUTFALL | RIP RAP CLASS | La |
|--------------|---------------|----|
| 1 | B | 8' |
| 3 | 1 | 8' |
| 4 | B | 6' |
| 6 | B | 8' |
| 7 | B | 6' |
| 10 | B | 6' |
| 11 | B | 6' |
| 13 | B | 6' |

FOR METHOD SEE 8.06 OF NC EROSION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL.

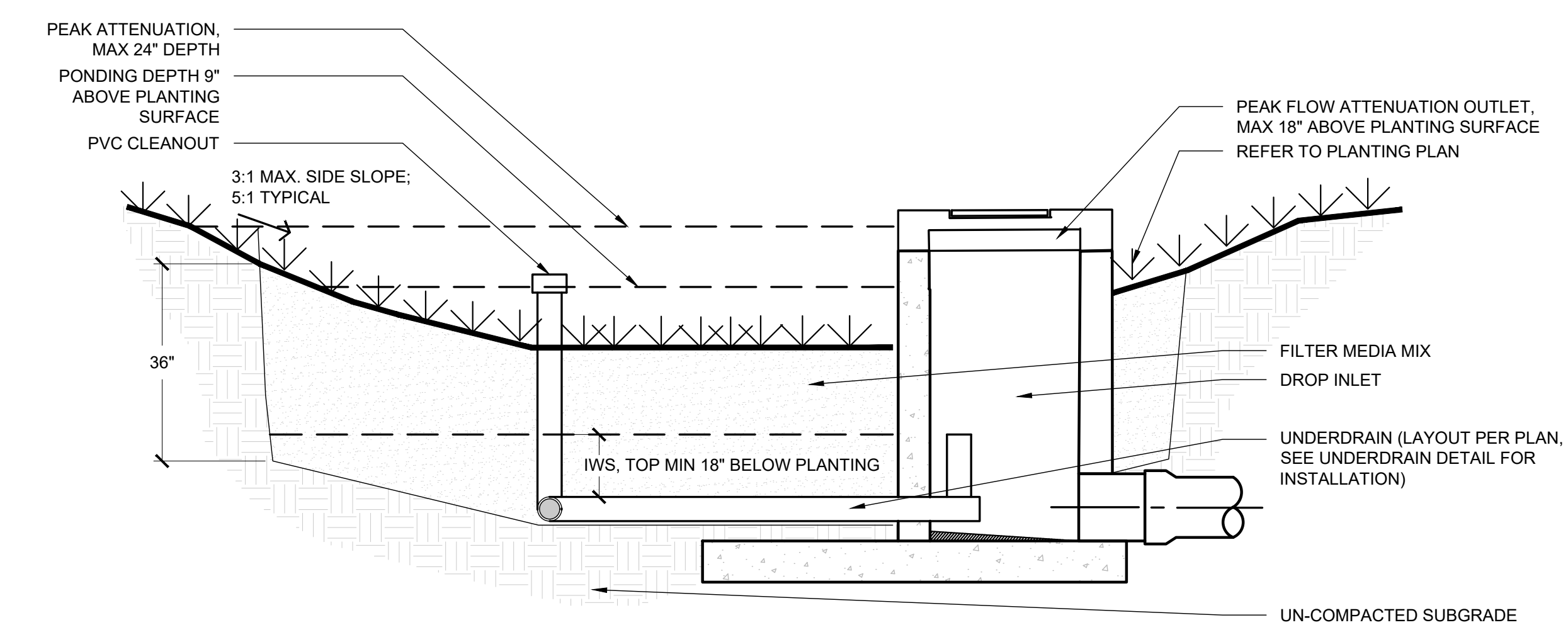
D = PIPE DIA. IN INCHES
Dmax = MAXIMUM STONE SIZE (1.5 x d50)



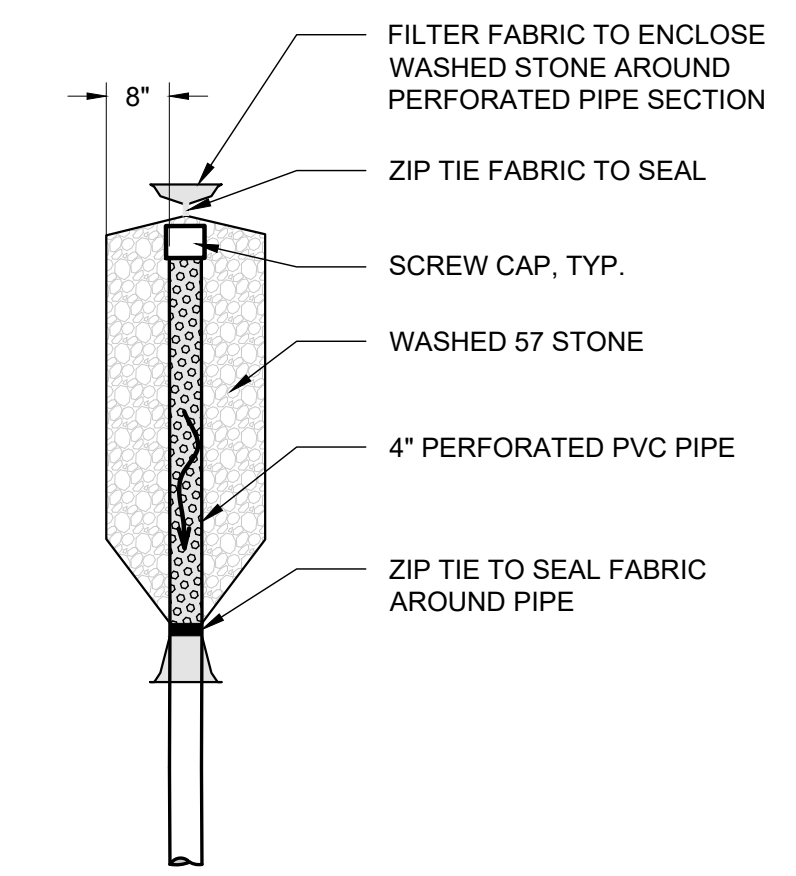
3 DROP INLET
L8.5 1/2"=1'



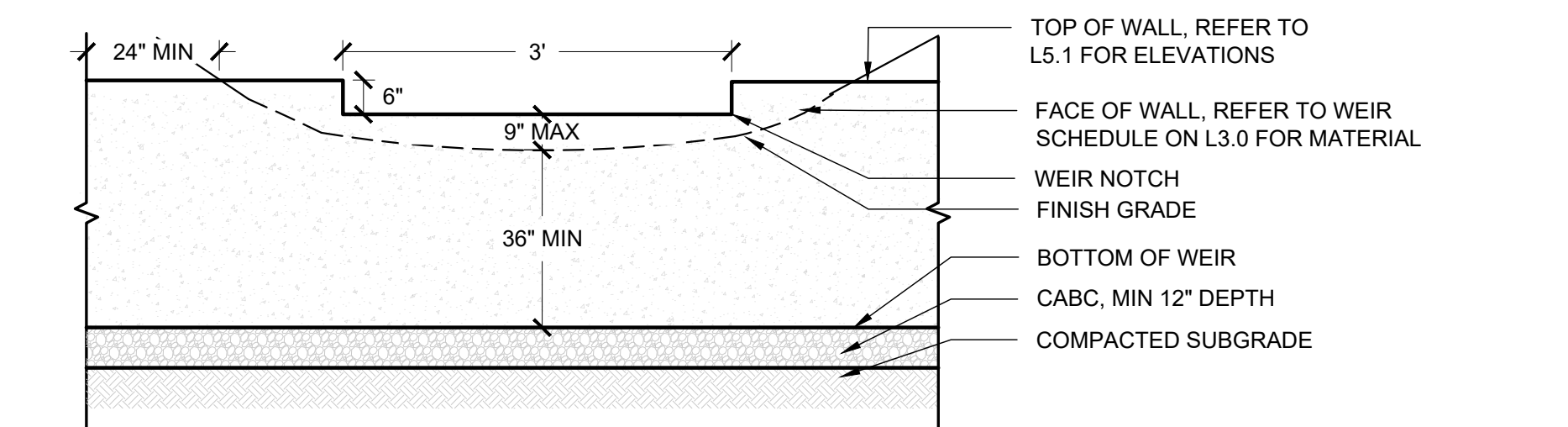
- NOTES:
1. SHALL BE DESIGNED TO ACHIEVE A FLOW DEPTH OF SIX INCHES OR LESS.
 2. AVOID COMPACTION OF SUBGRADE.
 3. BIORETENTION SOIL MIX SHOULD MEET NCDENR STANDARDS AND SHALL CONSIST OF SAND (75-85%), FINES (SILT AND CLAY) (8-10%) & AGED PINE BARK OR COMPOST (5-10%). PHOSPHORUS INDEX OF SOIL MIX MUST BE BELOW 30.
 4. AVOID SOIL COMPACTION WITHIN AND AROUND THE TREATMENT AREA; SHALL BE KEPT TO A MINIMUM.
 5. SEDIMENTATION OF THE SYSTEM WILL CAUSE FAILURE, THEREFORE INSTALL SOIL MIX ONLY AFTER ALL SEDIMENT AND EROSION ON-SITE IS CONTROLLED AND SITE IS STABILIZED.
 6. REFER TO GRADING PLAN FOR ELEVATIONS AND GRADING.
 7. MIN 2' SEPARATION FROM SEASONAL HIGH WATER TABLE.
 8. REFER TO PLANTING PLAN FOR PLANTING INFORMATION.



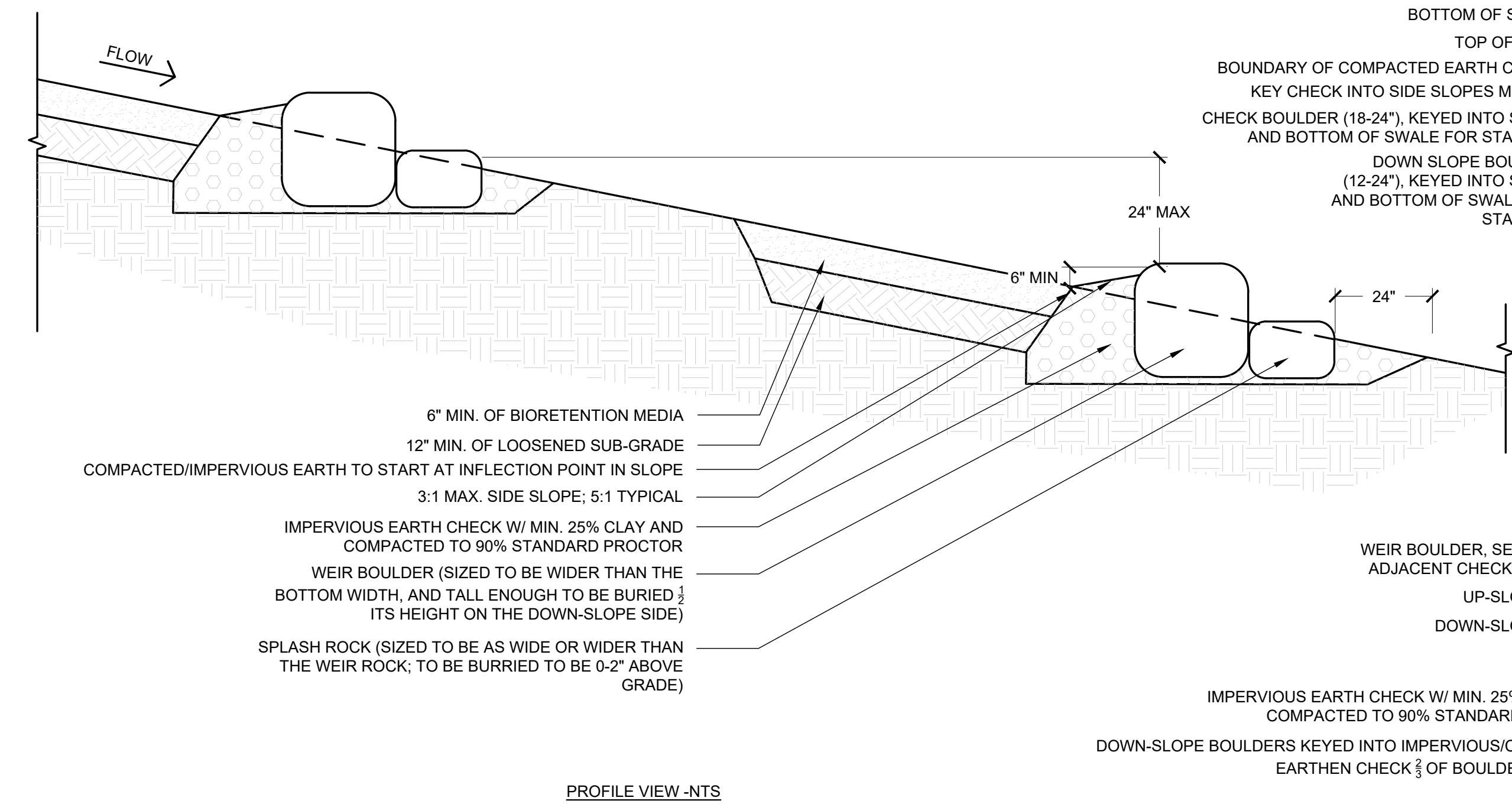
4 BIORETENTION
L8.5 1/2"=1'



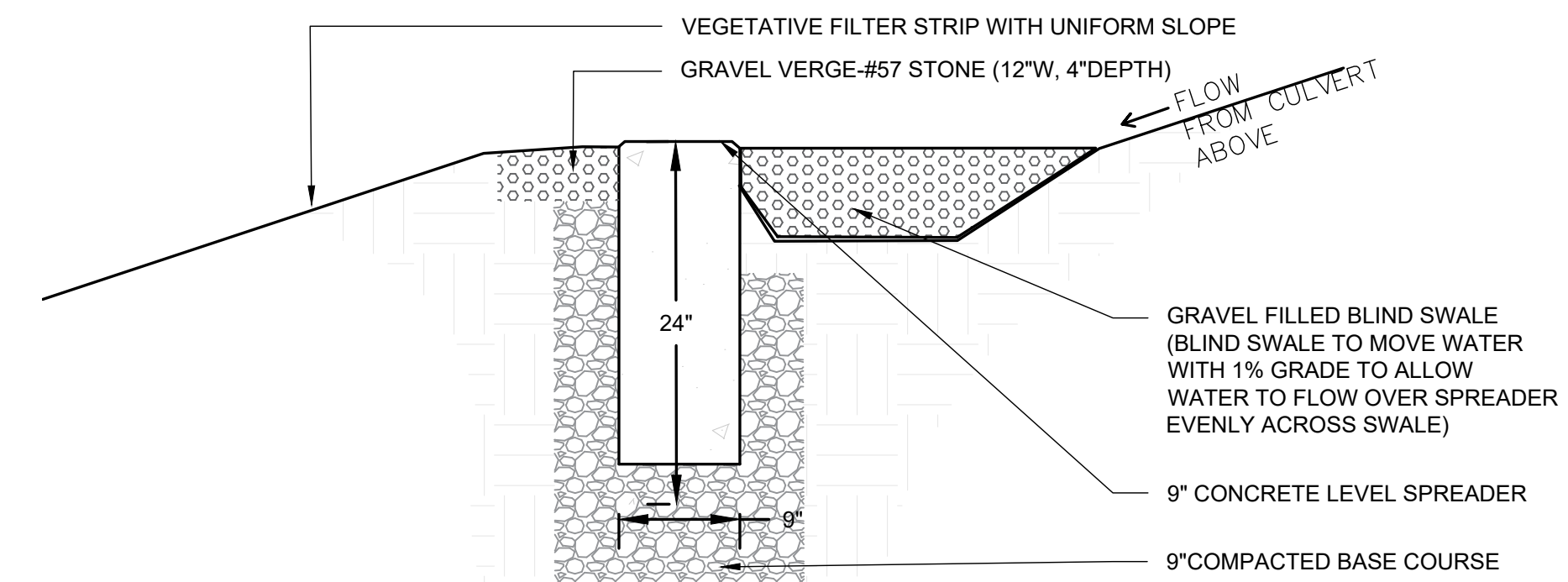
5 UNDERDRAIN
L8.5 1/2"=1'



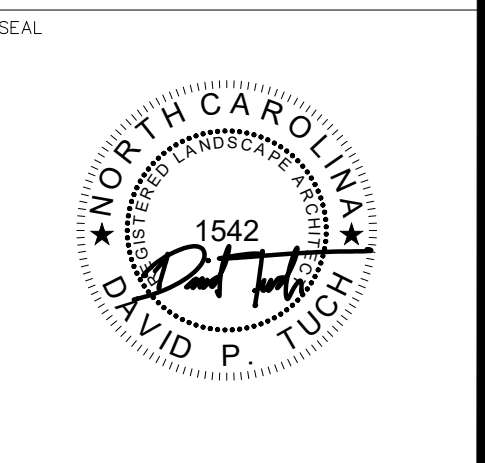
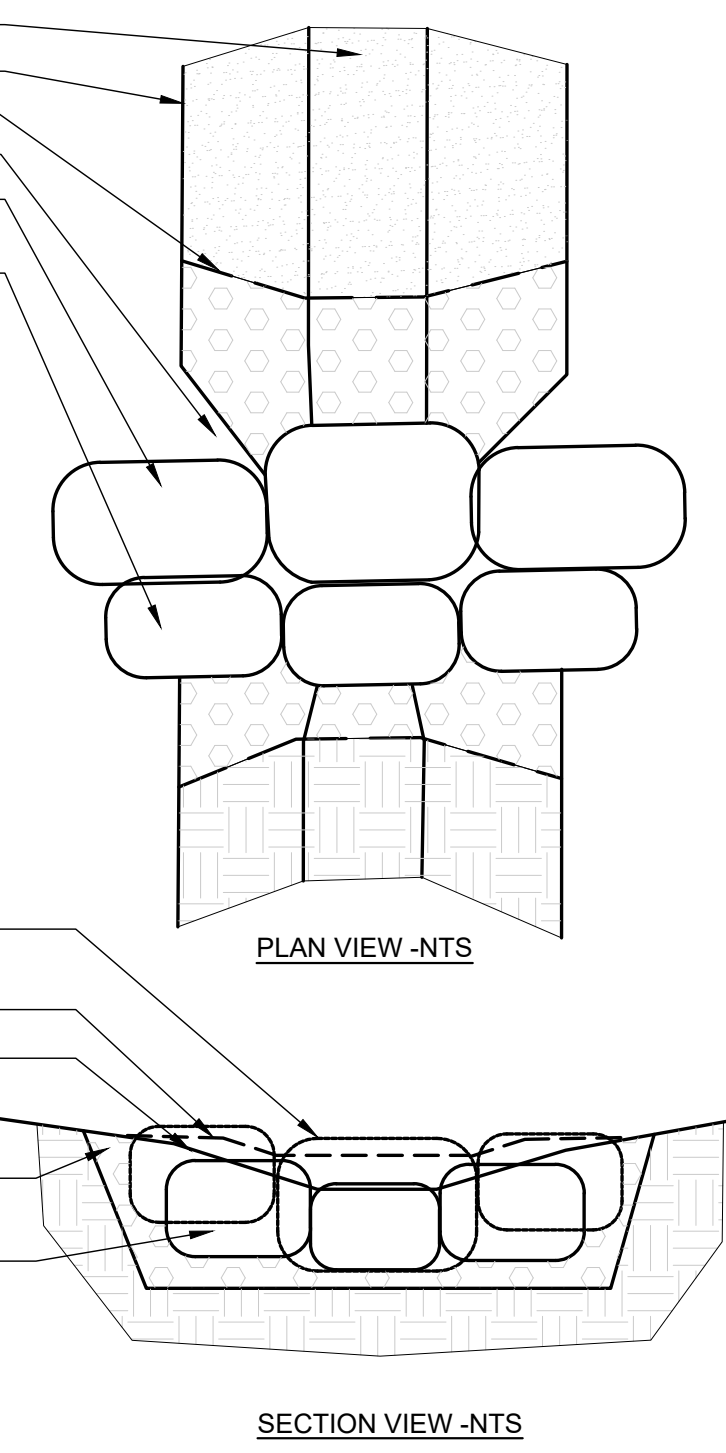
6 WEIR
L8.5 1/2"=1'



8 PERMANENT SWALE CHECKS
L8.5 NTS



7 LEVEL SPREADER
L8.5 1"=1'

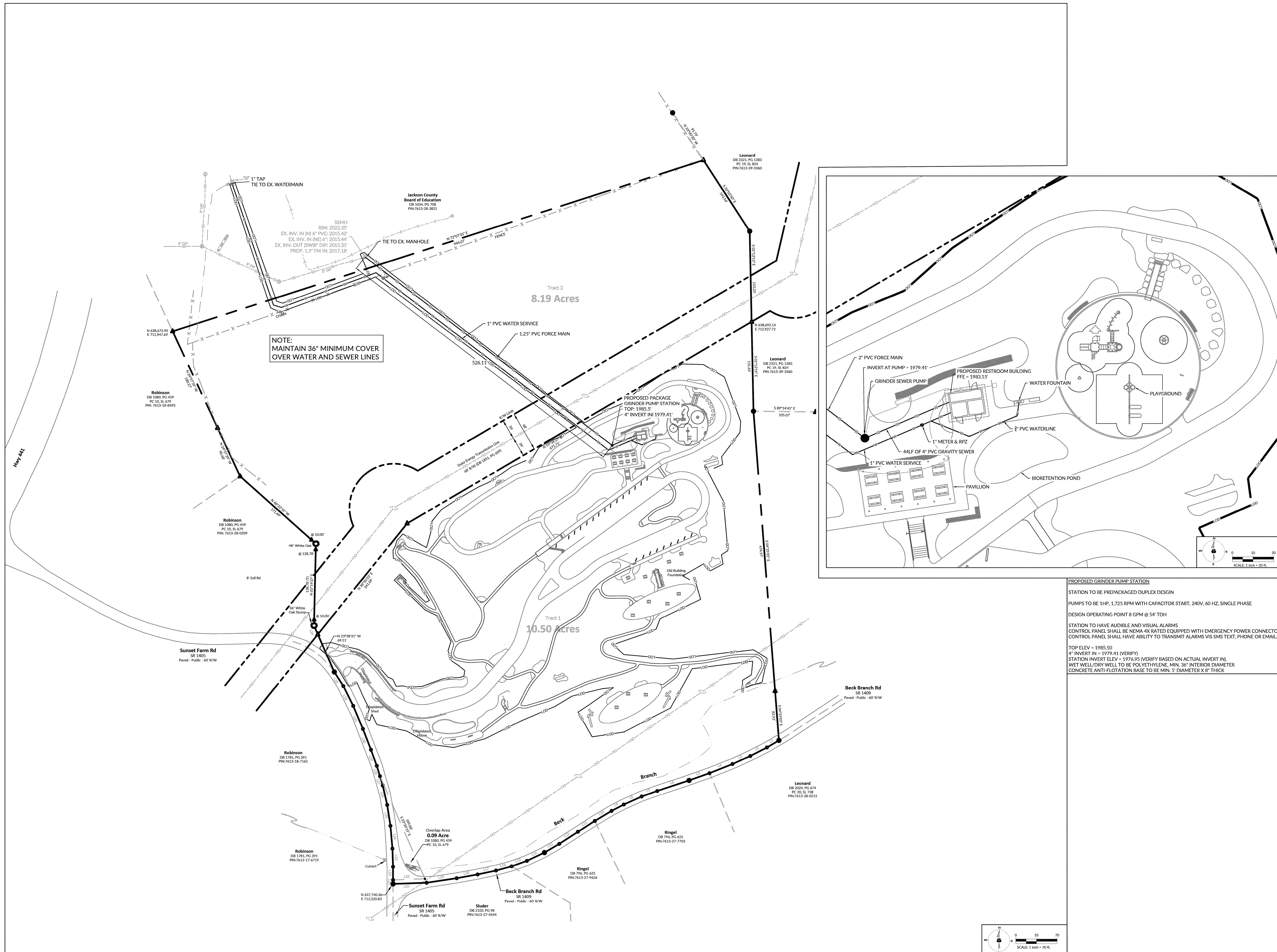


DESIGN BY: DRAWN BY: CHECKED BY:

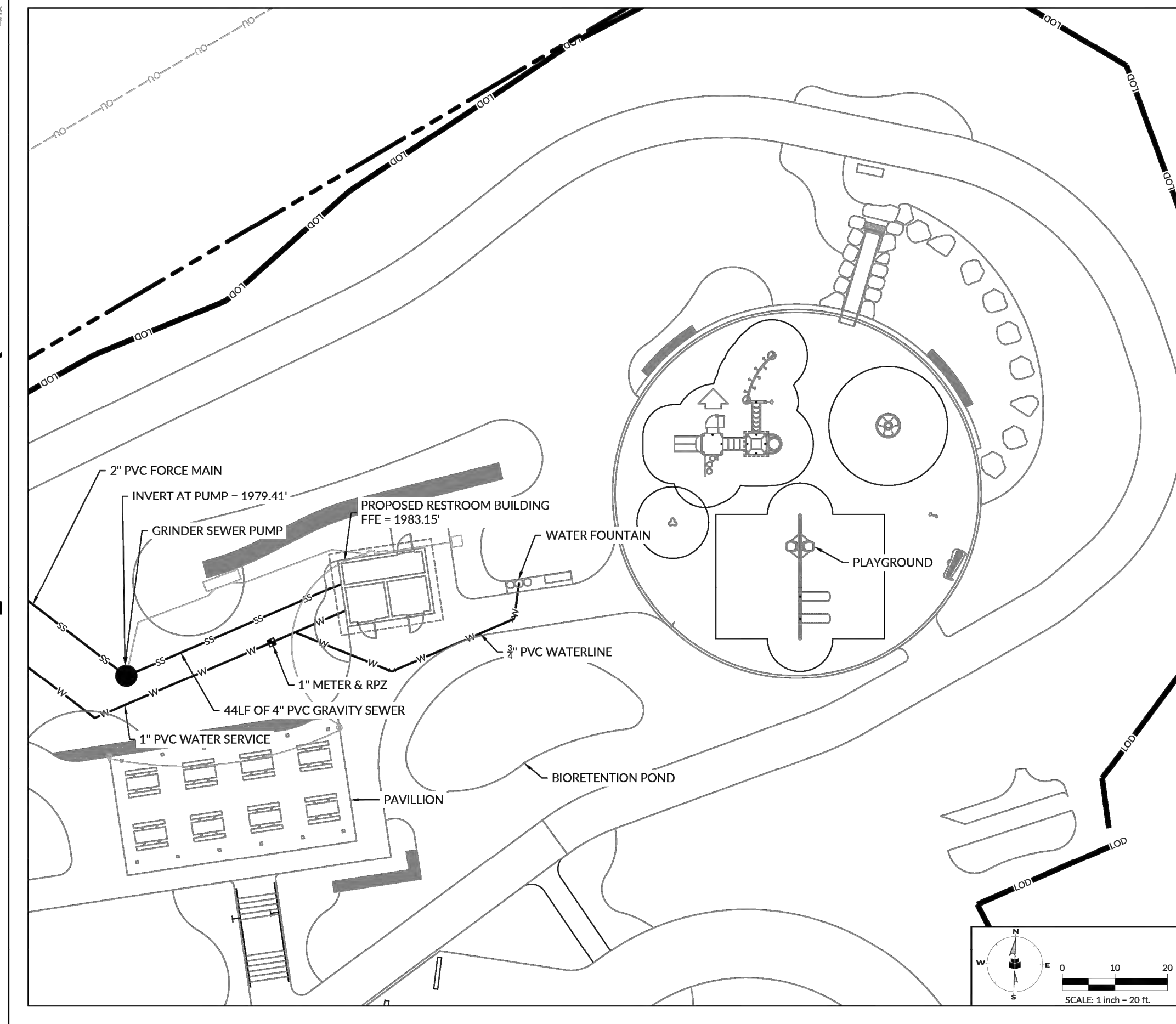
DATE

REVISIONS

V:\2024\06022404 Equinox - Children Recreation Site\CD\Drawings\Site\Water & Electric\CD\Whittier Utility Plan.dwg - Monday, June 17, 2025 10:46:04 AM - ATVDOR



NOTE: MAINTAIN 36" MINIMUM COVER OVER WATER AND SEWER LINES



PROPOSED GRINDER PUMP STATION

STATION TO BE PREPACKAGED DUPLEX DESIGN

PUMPS TO BE 1HP, 1,725 RPM WITH CAPACITOR START, 240V, 60 HZ, SINGLE PHASE

DESIGN OPERATING POINT 8 GPM @ 54' TDH

STATION TO HAVE AUDIBLE AND VISUAL ALARMS

CONTROL PANEL SHALL BE NEMA 4X RATED EQUIPPED WITH EMERGENCY POWER CONNECTOR

CONTROL PANEL SHALL HAVE ABILITY TO TRANSMIT ALARMS VIS SMS TEXT, PHONE OR EMAIL

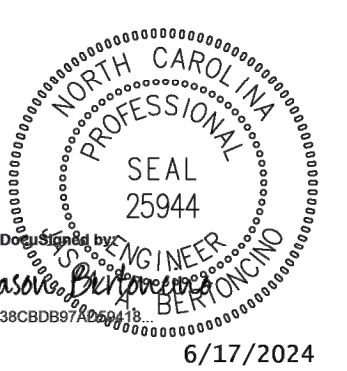
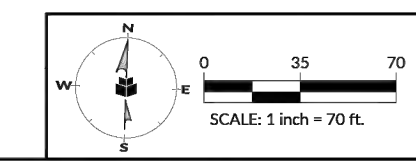
TOP ELEV = 1985.50

4" INVERT IN = 1979.41 (VERIFY)

STATION INVERT ELEV = 1976.95 (VERIFY BASED ON ACTUAL INVERT IN)

WET WELL/DRY WELL TO BE POLYETHYLENE, MIN. 36" INTERIOR DIAMETER

CONCRETE ANTI-FLOTATION BASE TO BE MIN. 5' DIAMETER X 8" THICK

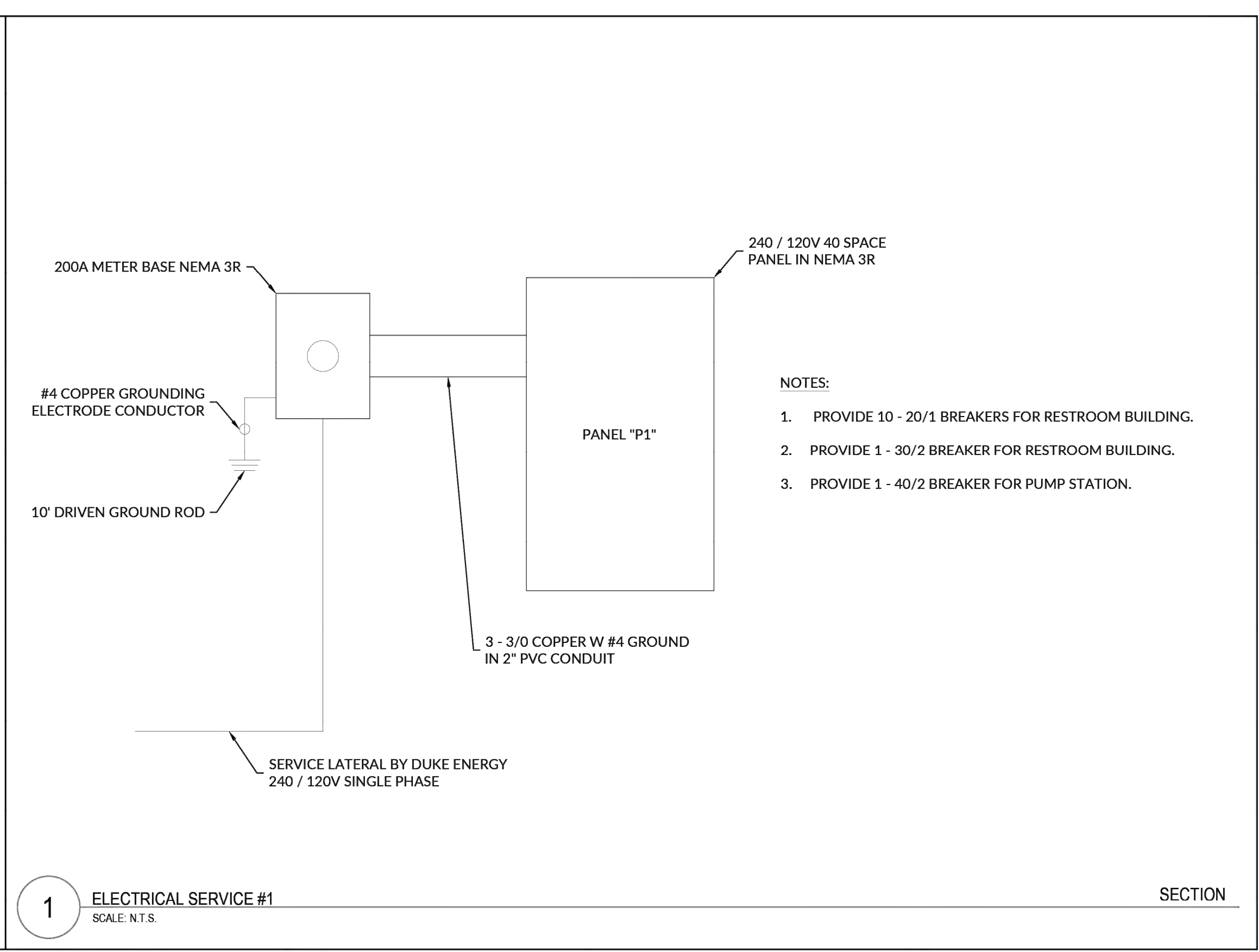
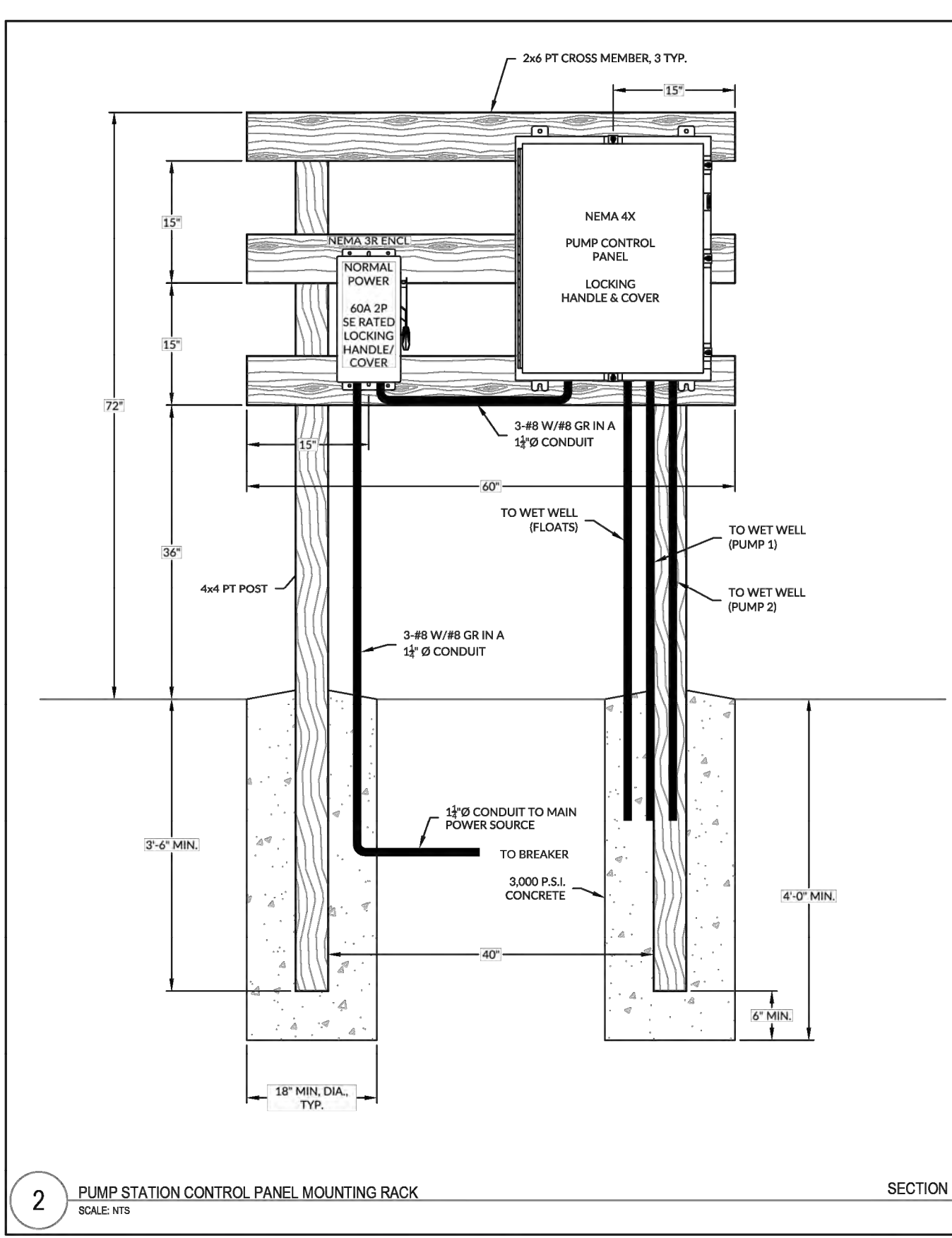
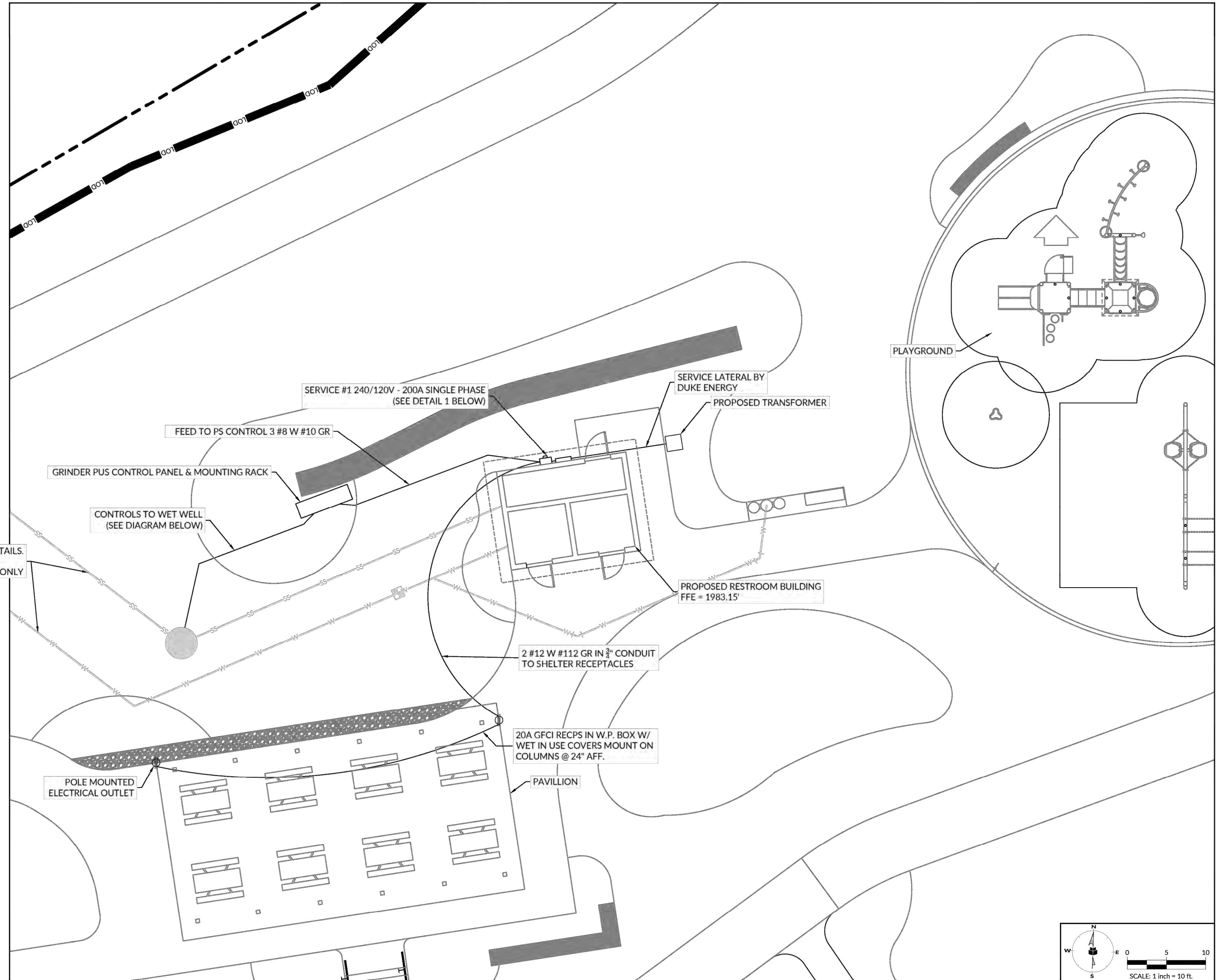


INITIAL PLAN DATE: 6/17/2024
 REVISIONS:

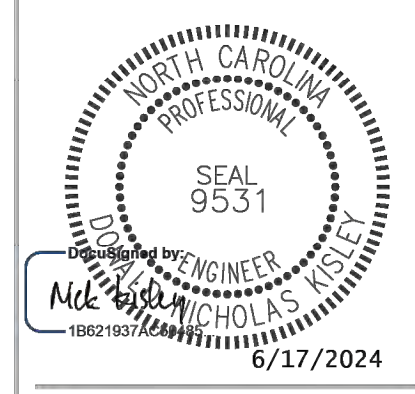
WR JOB NUMBER: 08221054
 DGN: WR CKD: WR

UTILITY PLAN

C1.00



- NOTES:
1. PROVIDE 10 - 20/1 BREAKERS FOR RESTROOM BUILDING.
 2. PROVIDE 1 - 30/2 BREAKER FOR RESTROOM BUILDING.
 3. PROVIDE 1 - 40/2 BREAKER FOR PUMP STATION.

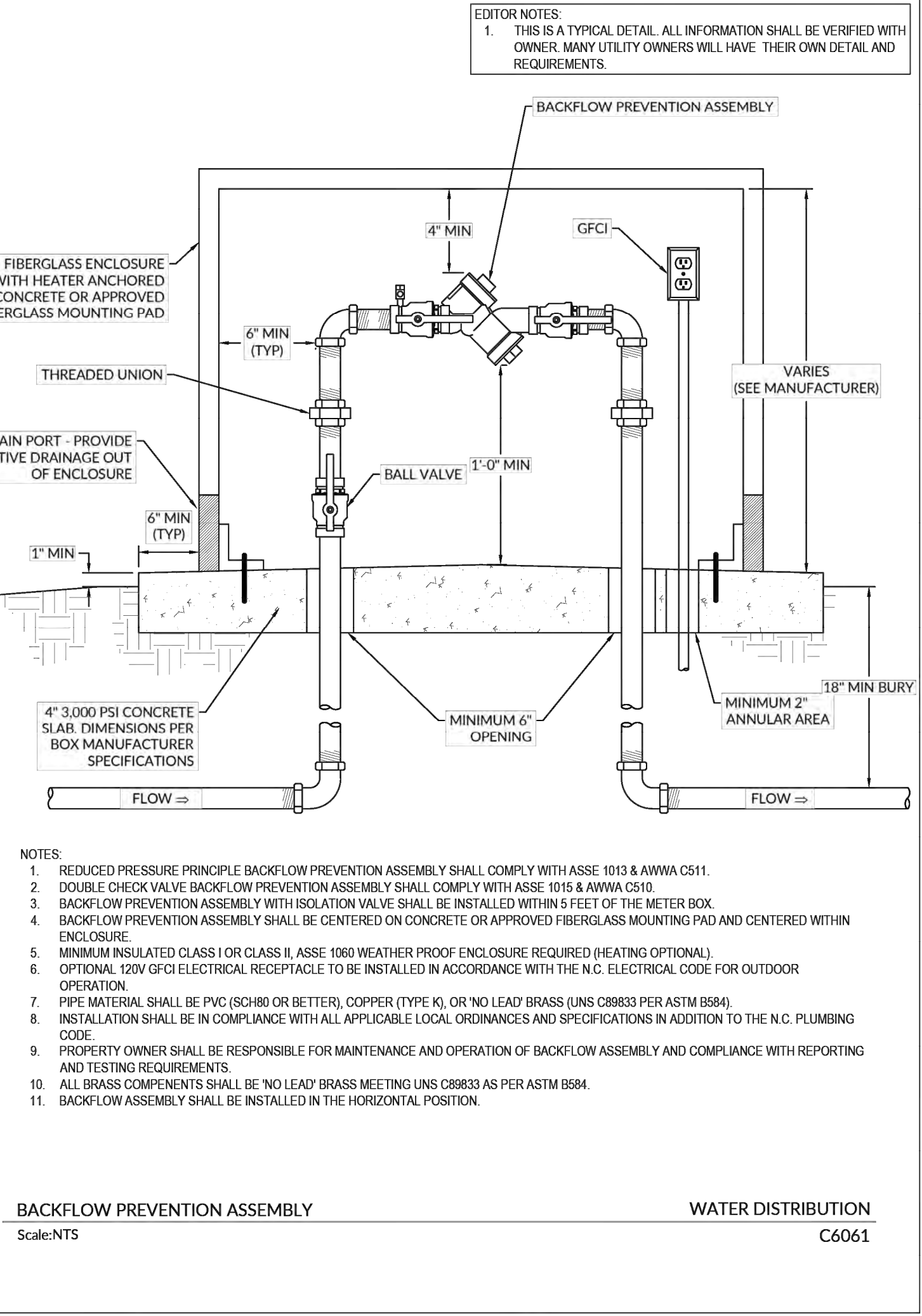
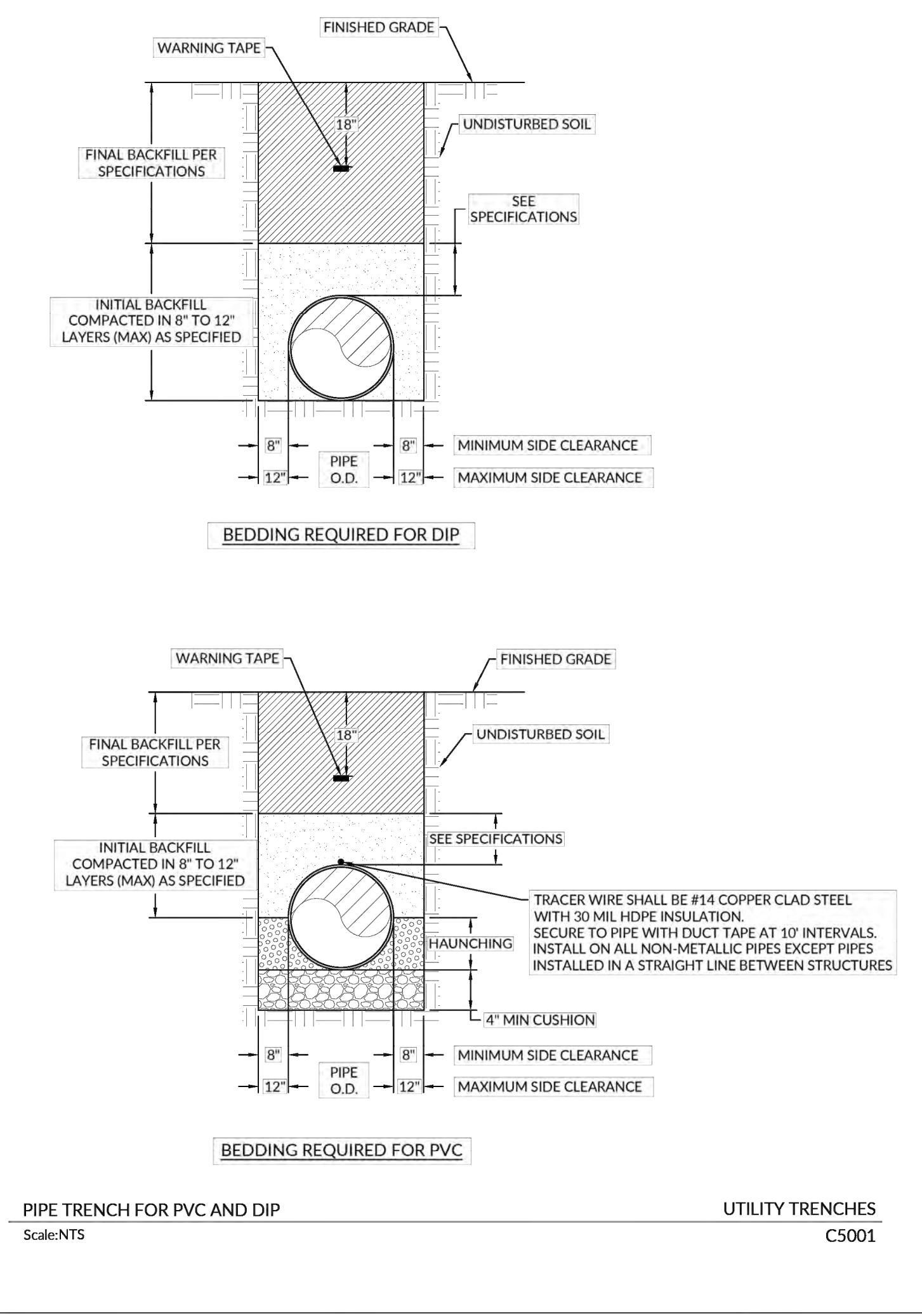
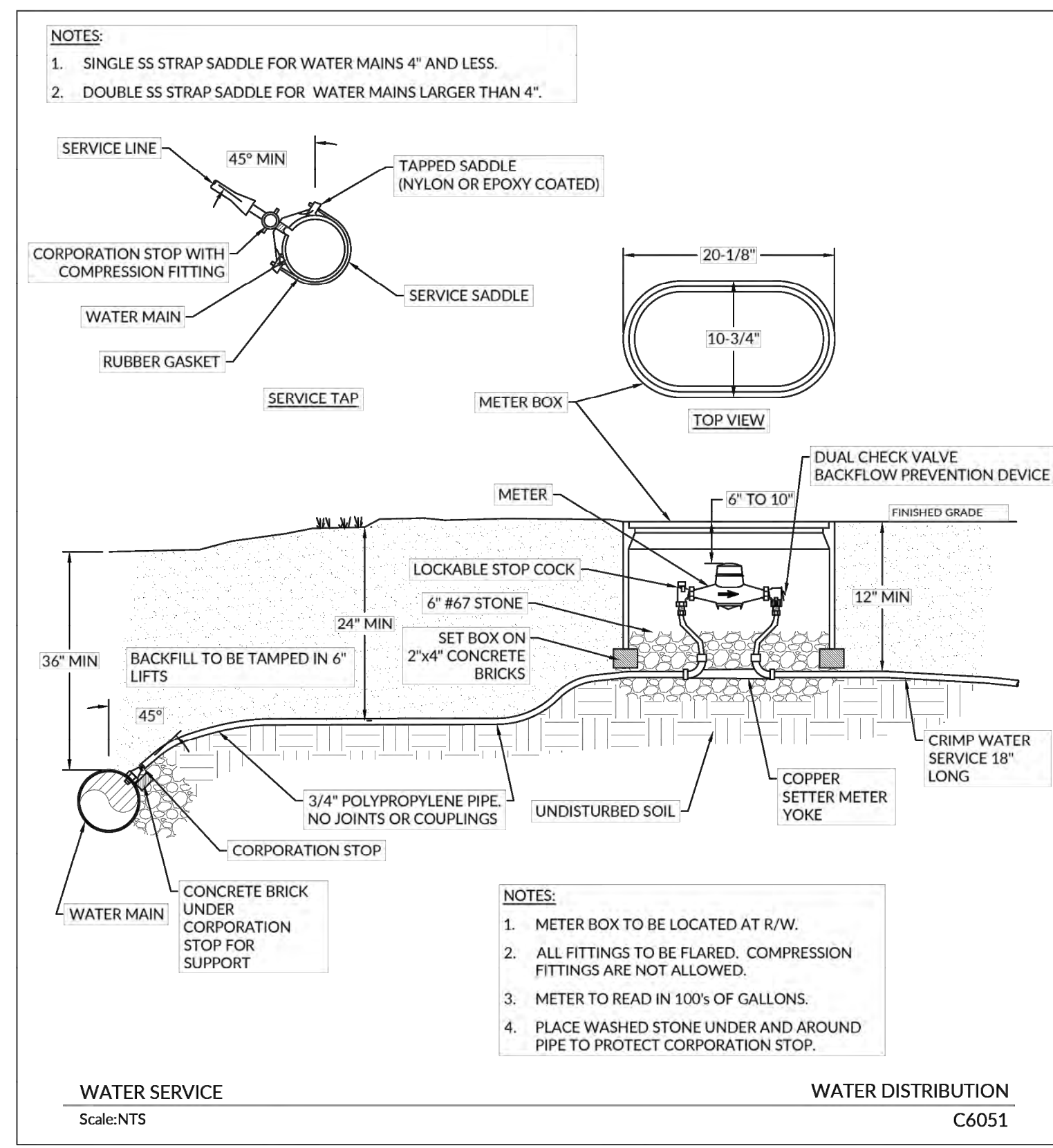


INITIAL PLAN DATE: 6/17/2024
 REVISIONS:

WR JOB NUMBER 08221054
 DRN: WR DGN: WR CKD: WR

ELECTRICAL PLAN

C2.00



EQUINOX ENVIRONMENTAL
37 HAYWOOD STREET, SUITE 100
ASHEVILLE, NORTH CAROLINA 28801

PRELIMINARY PLANS
QUALLA WHITTIER PARK
TR 1 SUNSET FARM ROAD | WHITTIER, NC | JACKSON COUNTY

PROFESSIONAL SEAL
25944
JASON B. BURTNER
REGISTERED PROFESSIONAL ENGINEER
6/17/2024

INITIAL PLAN DATE: 6/17/2024
REVISIONS:

WR JOB NUMBER 08221054
DRN: WR DGN: WR CKD: WR

DETAILS
C3.00