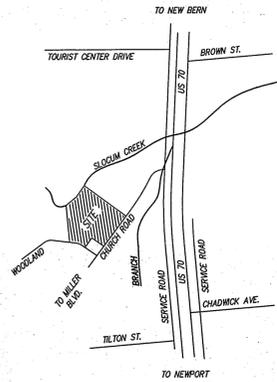


# City of Havelock

## Slocum Park - Ph. IV Improvements



VICINITY MAP

### GENERAL NOTES:

- CONTACT NORTH CAROLINA ONE-CALL CENTER, INC. (NC-811) TO HAVE ALL UNDERGROUND UTILITIES LOCATED PRIOR TO EXCAVATING OR TRENCHING.
- ELECTRIC AND TELEPHONE UTILITIES SHALL BE INSTALLED UNDERGROUND.
- ALL REQUIRED IMPROVEMENTS SHALL COMPLY WITH THE CITY OF HAVELOCK MANUAL OF STANDARD DESIGNS AND DETAILS AND THE MANUAL FOR THE DESIGN AND CONSTRUCTION OF WATER AND WASTEWATER SYSTEM EXTENSIONS FOR THE CITY OF HAVELOCK.
- CONSTRUCTION PLAN APPROVAL FROM THE CITY OF HAVELOCK SHALL BE OBTAINED PRIOR TO CONSTRUCTION OF ANY STREET, WATER, AND/OR SANITARY SEWER AND STORM DRAINAGE SYSTEMS.
- PROPERTY IS LOCATED WITHIN ZONE 'X' (AREA DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN), ZONE 'X' SHADED (AREA OUTSIDE THE 1% ANNUAL CHANCE FLOODPLAIN), AND ZONE 'AE' (AREAS WITHIN THE 1% ANNUAL CHANCE FLOODPLAIN) AS SHOWN ON FLOOD INSURANCE RATE MAP 372064220J, EFFECTIVE JULY 2, 2004.
- SOIL EROSION AND SEDIMENTATION CONTROL PLAN APPROVAL BY THE CITY ENGINEER IS REQUIRED PRIOR TO THE INITIATION OF ANY LAND DISTURBING ACTIVITIES.
- THIS SITE DISTURBS GREATER THAN ONE-HALF ACRE. STORMWATER MANAGEMENT SHALL BE PROVIDED IN ACCORDANCE WITH THE NCDENR NEUSE RIVER BASIN - NUTRIENT SENSITIVE WATER MANAGEMENT STRATEGY.
- BUILDINGS MUST MEET ALL APPLICABLE BUILDING CODES. SITE SHALL MEET ALL RELATIVE NORTH CAROLINA ACCESSIBILITY CODE REQUIREMENTS.
- ALL DIMENSIONS ARE TO EDGE OF GRAVEL UNLESS OTHERWISE NOTED.
- APPROVAL OF SITE PLAN DOES NOT CONSTITUTE APPROVAL OF SIGNS. SEPARATE SIGN PERMITS ARE REQUIRED.
- CLEANOUTS LOCATED IN PAVED AREAS SHALL BE INSTALLED WITH A SEWER CLEANOUT BOX SET TO FINISHED GRADE AS SHOWN IN HAVELOCK'S STANDARD DETAIL DRAWINGS.
- CONTRACTOR SHALL NOTIFY PUBLIC WORKS STREET MAINTENANCE DIVISION 48 HOURS PRIOR TO MAKING CONNECTIONS TO EXISTING STORM DRAINS LOCATED WITHIN PUBLIC STORM DRAINAGE EASEMENTS OR R/W.
- ACCESS TO PUBLIC UTILITIES MUST BE MADE AVAILABLE AT ALL TIMES.
- FINAL OCCUPANCY SHALL NOT BE ISSUED UNTIL ALL FIRE HYDRANTS HAVE BEEN TESTED AND ACCEPTED BY THE CITY OF HAVELOCK.
- ELECTRIC EASEMENT IS 10' IN WIDTH AND CENTERED OVER ELECTRIC LINES AS INSTALLED.
- NO BUILDINGS, STRUCTURES OR OTHER IMPROVEMENTS, MATERIALS AND SURFACES, INCLUDING BUT NOT LIMITED TO PRINCIPAL AND ACCESSORY STRUCTURES AND ADDITIONS AND APPURTENANCES THERETO, SIGNAGE, FENCES, WALLS, MECHANICAL EQUIPMENT, CANOPIES, ANTENNAS, MASTS, DEBRIS, SOLID WASTE COLLECTION CONTAINERS, MAIL RECEPTACLES AND IMPERVIOUS SURFACES SHALL ENCRoACH WITHIN ANY DEDICATED EASEMENT WITHOUT PRIOR APPROVAL OF THE CITY OF HAVELOCK.
- THIS SITE IS WITHIN THE AIR INSTALLATION COMPATIBILITY USE ZONE (AICUZ) OF MARINE CORPS AIR STATION (MCAS) CHERRY POINT. (NOISE EXPOSURE LEVEL N2 (65 TO 74 LDN)
- PARKING LOT LIGHTS MUST SHINE DOWNWARD DUE TO PROXIMITY TO MCAS CHERRY POINT.

### SITE DATA:

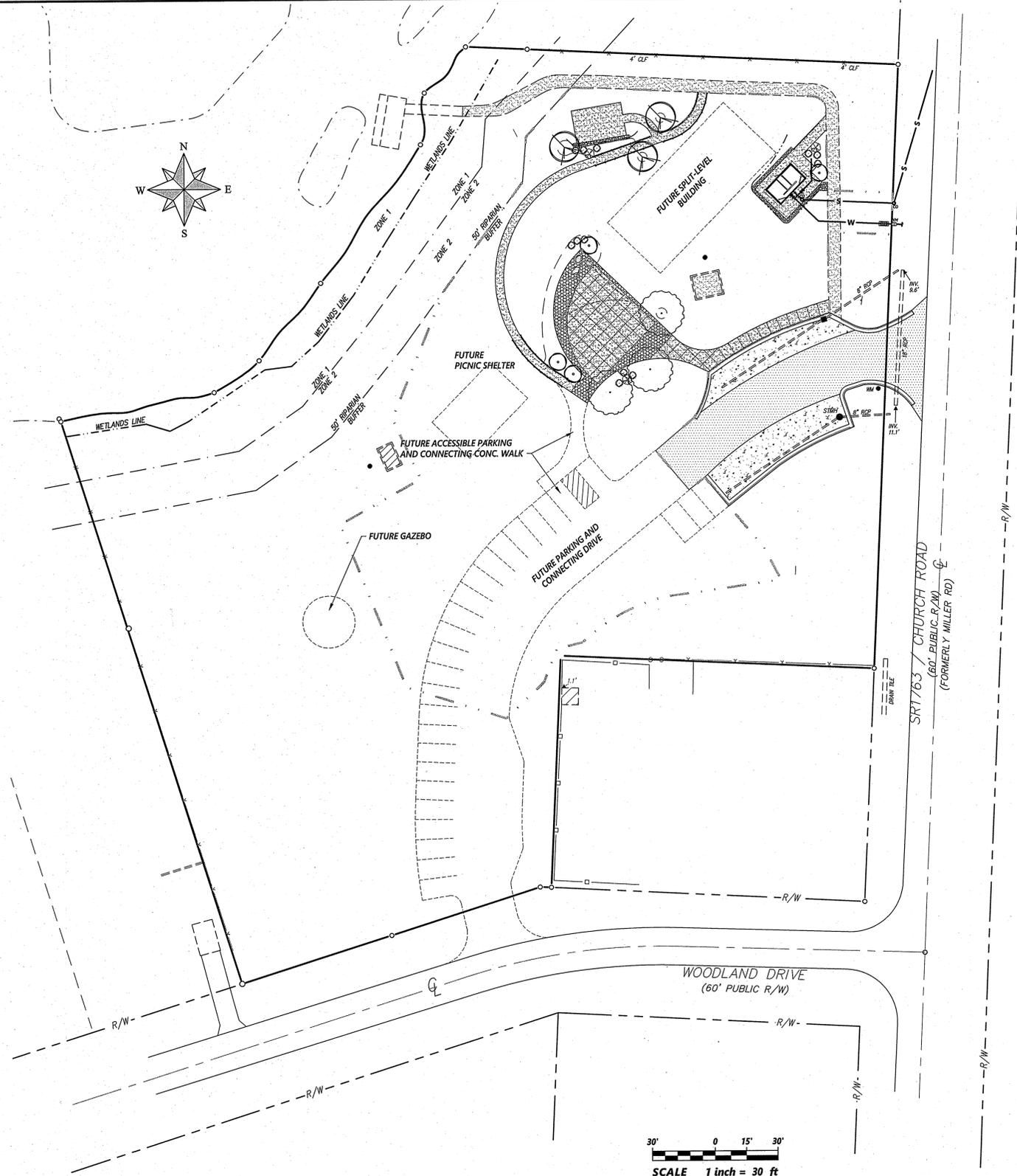
TOTAL ACREAGE IN SITE:	2.59 ACRES
PROJECT LIMITS:	43,497 SF (1.0 ACRES)
CURRENT ZONING:	R10
PARCEL NUMBER:	6-053-003-A
GROSS FLOOR AREA (PROPOSED):	170 SF RESTROOM
BUILDING LOT COVERAGE:	0.39%
BUILDING HEIGHT (IN FEET AND STORIES):	>35 FT - 1 STORY
TOTAL PROPOSED IMPERVIOUS AREA:	4,568 SF (4.05%)
PROPOSED PARKING SPACES:	N/A (UNCHANGED)

### SHEET INDEX

#	Description
C1	Cover
C2	Topographic Survey
C3	Demolition & Erosion Control Plan
C4	Site, Utilities, Grading & Drainage Plan
L1	Planting Plan
D1	Misc. Construction Details
D2	Pre-Engineered Bath House Schematic
E1	Site Plan - Electrical
E2	One-Line Diagram & Electrical Details

### OWNER / DEVELOPER:

CITY OF HAVELOCK  
 PO BOX 368  
 HAVELOCK, NC 28532  
 ATTN: Mark Sayer - (252) 444-6400



SCALE 1 inch = 30 ft

REVISIONS:

NO.	DATE	DESCRIPTION
6-SEPA-17	JDW	
	REL	



COVER  
 Slocum Park - Phase IV Improvements  
**City of Havelock**  
 CRAVEN COUNTY NORTH CAROLINA

**Rivers**  
 NC License: F-4834  
 ENGINEERS, PLANNERS, SURVEYORS  
 LANDSCAPE ARCHITECTS  
 107 East Second Street  
 Greenville, NC 27838  
 (252) 792-4135



August 8, 2017

SURVEY	- DRAFT	LC
DESIGN	- CHECK	JDW
PROJECT No.	2017027	
DRAWING No.	W-3722	
SCALE:	AS NOTED	
SHEET No.	OF 9	

**C1**

P:\Projects\Havelock - Slocum Park Ph. IV - 2017027\Drawn - Utility\W-3722 - Slocum Park Ph. IV - 2017027.dwg, 8/1/17 11:54:52 AM  
 CALL BEFORE YOU DIG! WWW.NC811.ORG N.C. ONE-CALL CENTER IT'S THE LAW!



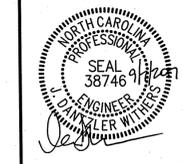
DATE	BY	DESCRIPTION
6-SEP-17	JDW	Comments



**TOPOGRAPHIC SURVEY**  
**Slocum Park - Phase IV Improvements**  
**City of Havelock**  
 NORTH CAROLINA  
 CRAVEN COUNTY

**Rivers & Associates, Inc.**  
 107 East Second Street  
 Greenville, NC 27659  
 (852) 752-4135

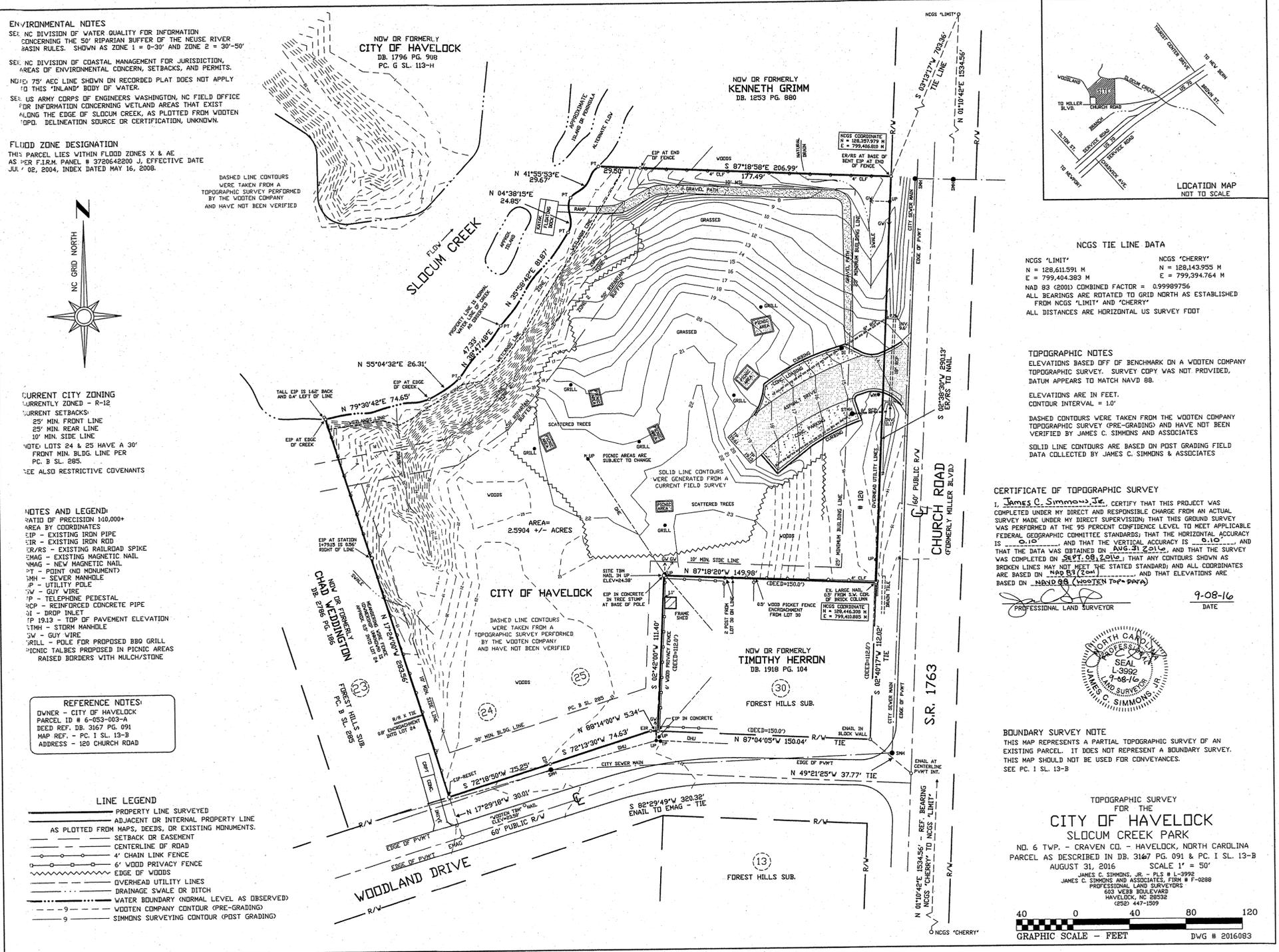
Engineers  
 Planners  
 Surveyors  
 Landscape Architects



August 8, 2017

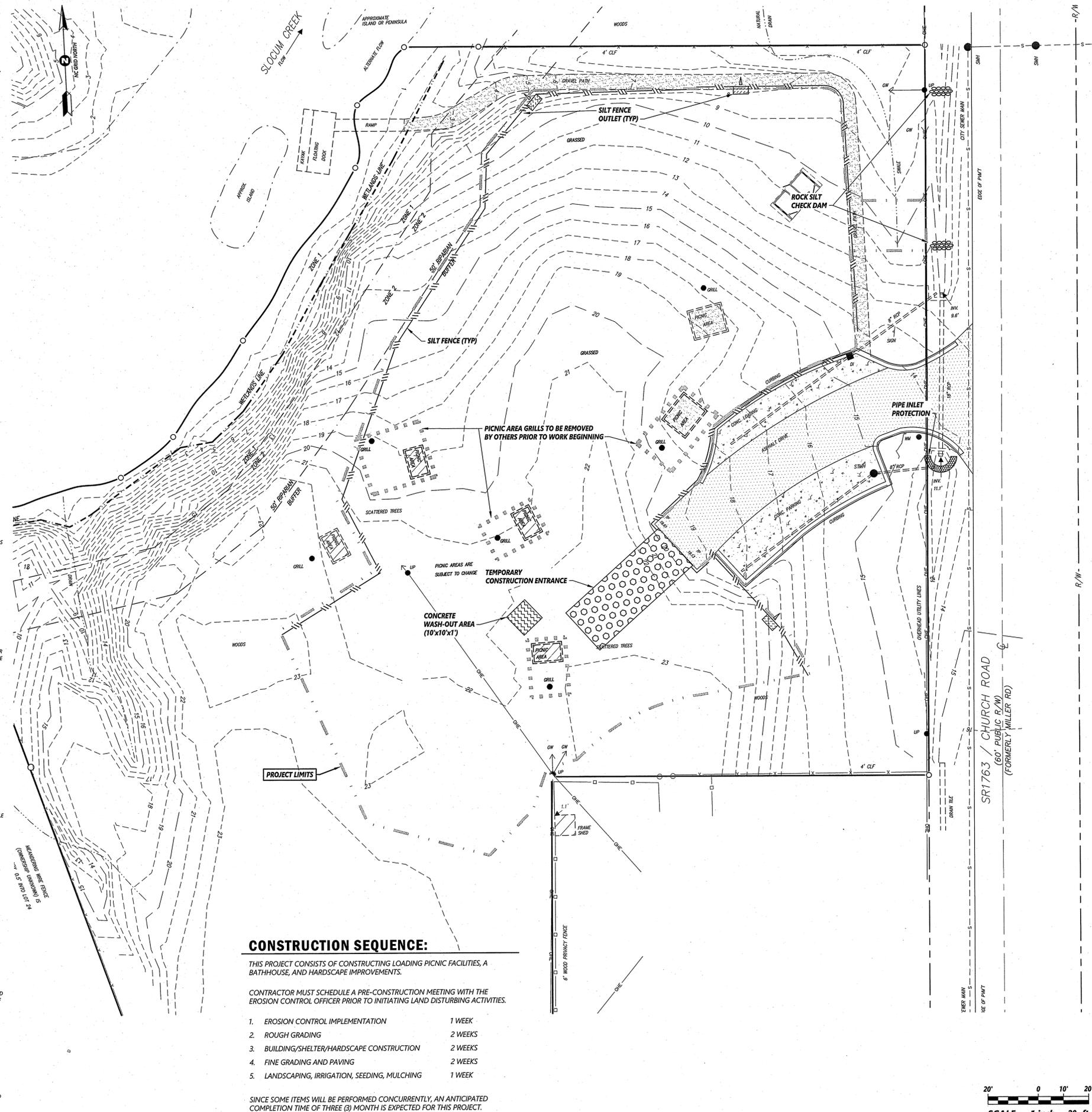
SURVEY	DRAFT
DESIGN	CHECK
PROJECT No.	2017027
DRAWING No.	W-3722
SCALE	AS NOTED
SHEET No.	OF 9

**C2**



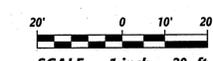
**EROSION CONTROL NOTES:**

- ALL WORK WILL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES. NO LAND DISTURBING ACTIVITY BEYOND THAT REQUIRED TO INSTALL THE APPROPRIATE EROSION CONTROL MEASURE MAY PROCEED UNTIL MEASURES ARE INSPECTED AND APPROVED.
- FOLLOWING STRIPPING OF SITE, ALL STORM DRAINAGE STRUCTURES SHALL BE INSTALLED AND OPERATIONAL PRIOR TO THE START OF CONSTRUCTION. SILT FENCES SHALL BE PLACED ALONG PROPERTY LINES AS INDICATED ON PLANS TO PROTECT ADJACENT DEVELOPMENTS. TRAPS SHALL BE INSTALLED AROUND ALL DRAINAGE STRUCTURES TO COLLECT SURFACE RUNOFF AND CONTROL SILTATION AND RELEASE WATER AT A GRADUAL RATE. ALL DISTURBED AREAS SHALL BE GRADED, SEEDED AND MULCHED.
- ALL SHOULDERS SHALL BE SEEDED TO STABILIZE THE SOIL. SEED BED PREPARATION SHALL BE CONDUCTED ACCORDING TO NORTH CAROLINA DEPARTMENT OF ENVIRONMENT AND NATURAL RESOURCES SPECIFICATIONS FOR ROADS AND STRUCTURES. THE GROUND SURFACES SHALL BE CLEAR OF STUMPS, STONES, ROOTS, CABLES, WIRE GRADE STAKES, AND OTHER MATERIALS THAT MIGHT HINDER PROPER GRADING, TILLAGE, SEEDING OR SUBSEQUENT MAINTENANCE OPERATIONS. GRADES ON THE AREA TO BE SEEDED SHALL BE MAINTAINED IN A TRUE AND EVEN CONDITION. MAINTENANCE SHALL INCLUDE ANY NECESSARY REPAIRS TO PREVIOUSLY GRADED AREAS. ALL GRADED AREAS SHALL BE THOROUGHLY TILLED TO A DEPTH OF AT LEAST FOUR (4) INCHES BY PLOWING, DISKING, HARROWING, OR OTHER APPROVED METHODS UNTIL THE CONDITION OF THE SOIL IS ACCEPTABLE. ON SITES WHERE SOIL CONDITIONS ARE SUCH THAT HIGH CLAY CONTENT AND EXCESSIVE COMPACTION CAUSE DIFFICULTY IN GETTING CLODS AND LUMPS EFFECTIVELY ALIGNED, THE CONTRACTOR SHALL USE THE ROTARY TILLAGE MACHINERY UNTIL THE MOISTURE OF THE SOIL IS ACCEPTABLE AND NO CLODS OR LUMPS REMAIN LARGER THAN 1 1/2 INCHES IN DIAMETER. A FIRM AND COMPACT SEED BED IS REQUIRED AND AFTER BEING GRADED, THE SEED BED SHALL BE LIGHTLY COMPACTED WITH A LAND ROLLER, SUCH AS A CULTIPACKER, BEFORE AND AFTER SEEDING. LIMESTONE SHALL BE DOLOMITIC AGRICULTURE GRADE LIMESTONE CONTAINING NOT LESS THAN 10 PERCENT MAGNESIUM OXIDE. LIME SHALL BE UNIFORMLY APPLIED AT THE RATE OF 2 TONS PER ACRE AS TESTING REQUIRES PER THE SPECIFICATIONS. IF REQUIRED FOR SPECIFIC AREAS, FERTILIZER SHALL BE INCORPORATED INTO THE UPPER THREE OR FOUR INCHES OF PREPARED SEED BED JUST PRIOR TO THE LAST TILLAGE OPERATION, BUT IN NO CASE SHALL IT BE APPLIED MORE THAN THREE DAYS PRIOR TO SEEDING. FERTILIZER SHALL BE USED IMMEDIATELY AFTER DELIVERY OR STORED IN A MANNER THAT WILL NOT PERMIT IT TO HARDEN OR DESTROY ITS EFFECTIVENESS.
- PERMANENT SEEDING**  
 APPLY DOLOMITIC LIMESTONE AT THE RATE OF 2 TONS PER ACRE. IF HYDRATED LIME IS USED, FOLLOW RECOMMENDATION FROM SOIL TEST. COST OF THE TEST SHALL BE BORNE BY THE CONTRACTOR.  
 APPLY 10-10-10 FERTILIZER OUTSIDE OF NCDDOT RIGHT-OF-WAY AT A RATE OF 1,000 POUNDS PER ACRE.  
 APPLY 10-20-20 FERTILIZER WITHIN NCDDOT RIGHT-OF-WAY AT A RATE OF 500 POUNDS PER ACRE.  
 PROVIDE PERMANENT SEEDING IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:  
 OUTSIDE OF NCDDOT R/W  
 (JANUARY 1 - MARCH 31)  
 COMMON BERMLUDA GRASS (UNHULLED) - 20 POUNDS PER ACRE  
 (APRIL 1 - JULY 31)  
 COMMON BERMLUDA GRASS (HULLED) - 15 POUNDS PER ACRE  
 CENTIPEDE - 8 POUNDS PER ACRE  
 (AUGUST 1 - DECEMBER 31)  
 COMMON BERMLUDA GRASS (UNHULLED) - 15 POUNDS PER ACRE  
 TALL FESCUE - 100 POUNDS PER ACRE  
 CENTIPEDE - 8 POUNDS PER ACRE  
 WITHIN NCDDOT R/W  
 (JANUARY 1 - DECEMBER 31)  
 FESCUE - 50 POUNDS PER ACRE  
 PENNSYLVANIA BAHAGRASS - 25 POUNDS PER ACRE  
 CENTIPEDE - 5 POUNDS PER ACRE
- GROUND STABILIZATION (PER NCG01000)**  
 A. SOIL STABILIZATION SHALL BE ACHIEVED ON ANY AREA OF A SITE WHERE LAND-DISTURBING ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED ACCORDING TO THE FOLLOWING SCHEDULE:  
 I. ALL PERIMETER DYES, SWALES, DITCHES, PERIMETER SLOPES AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1) SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.  
 II. ALL OTHER DISTURBED AREAS SHALL BE PROVIDED TEMPORARY OR PERMANENT STABILIZATION WITH GROUND COVER AS SOON AS PRACTICABLE BUT IN ANY EVENT WITHIN 14 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACTIVITY.  
 B. CONDITIONS - IN MEETING THE STABILIZATION REQUIREMENTS ABOVE, THE FOLLOWING CONDITIONS OR EXEMPTIONS SHALL APPLY:  
 I. EXTENSIONS OF THIS MAY BE APPROVED BY THE PERMITTING AUTHORITY BASED ON WEATHER OR OTHER SITE SPECIFIC CONDITIONS THAT MAKE COMPLIANCE IMPRACTICABLE.  
 II. ALL SLOPES 5:1 IN LENGTH OR GREATER SHALL APPLY THE GROUND COVER WITHIN 7 DAYS EXCEPT WHEN THE SLOPE IS FLATTER THAN 4:1. SLOPES LESS THAN 5:1 SHALL APPLY GROUND COVER WITHIN 14 DAYS EXCEPT WHEN SLOPES ARE STEEPER THAN 3:1, THE 7 DAY REQUIREMENT APPLIES.  
 III. ANY SLOPE AREA FLATTER THAN 4:1 SHALL BE EXEMPT FROM THE 7-DAY GROUND COVER REQUIREMENT.  
 IV. SLOPES 1:1 OR LESS IN LENGTH SHALL BE EXEMPT FROM THE 7-DAY GROUND COVER REQUIREMENT EXCEPT WHEN THE SLOPE IS STEEPER THAN 2:1.  
 V. ALTHOUGH STABILIZATION IS USUALLY SPECIFIED AS GROUND COVER, OTHER METHODS, SUCH AS CHEMICAL STABILIZATION, MAY BE ALLOWED ON A CASE-BY-CASE BASIS.  
 VI. FOR PORTIONS OF PROJECTS WITHIN ONE MILE AND DRAINING TO TRIBUTARY WATERS AND HIGH QUALITY WATERS AS CLASSIFIED BY THE ENVIRONMENTAL MANAGEMENT COMMISSION, STABILIZATION WITH GROUND COVER SHALL BE AS PRACTICABLE BUT IN ANY EVENT ON ALL AREAS OF THE SITE WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACT.  
 VII. FOR PORTIONS OF PROJECTS LOCATED IN OUTSTANDING RESOURCE WATERS WATERSHEDS AS CLASSIFIED BY THE ENVIRONMENTAL MANAGEMENT COMMISSION, STABILIZATION WITH GROUND COVER SHALL BE ACHIEVED AS SOON AS PRACTICABLE BUT IN ANY EVENT ON ALL AREAS WITHIN 7 CALENDAR DAYS FROM THE LAST LAND-DISTURBING ACT.  
 VIII. PORTIONS OF A SITE THAT ARE LOWER IN ELEVATION THAN ADJACENT DISCHARGE LOCATIONS AND ARE NOT EXPECTED TO DISCHARGE DURING CONSTRUCTION MAY BE EXEMPT FROM THE TEMPORARY GROUND COVER REQUIREMENTS IF IDENTIFIED ON THE APPROVED EBSIC PLAN OR ADDED BY THE PERMITTING AUTHORITY.
- SELF INSPECTION AND REPORTING REQUIREMENTS (PER NCG01000)**  
 MINIMUM SELF INSPECTION AND REPORTING REQUIREMENTS ARE AS FOLLOWS UNLESS OTHERWISE APPROVED IN WRITING BY THE DIVISION OF WATER QUALITY.  
 A. A RAIN GAUGE SHALL BE MAINTAINED IN GOOD WORKING ORDER ON THE SITE UNLESS ANOTHER RAIN MONITORING DEVICE HAS BEEN APPROVED BY THE PERMITTING AUTHORITY.  
 B. A WRITTEN RECORD OF THE DAILY RAINFALL AMOUNTS SHALL BE RETAINED AND ALL RECORDS SHALL BE MADE AVAILABLE TO DWO OR AUTHORIZED AGENT UPON REQUEST (NOTE: IF NO RAINFALL OCCURRED, THE PERMITTEE MUST RECORD "ZERO").  
 C. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. INSPECTION RECORDS MUST BE MAINTAINED FOR EACH INSPECTION EVENT AND FOR EACH MEASURE. AT A MINIMUM, INSPECTIONS OF THE MEASURES MUST OCCUR AT THE FREQUENCY INDICATED BELOW:  
 I. ALL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE INSPECTED BY OR UNDER THE DIRECTION OF THE PERMITTEE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS, AND  
 II. ALL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE INSPECTED BY OR UNDER THE DIRECTION OF THE PERMITTEE WITHIN 24 HOURS AFTER ANY STORM EVENT OF GREATER THAN 0.50 INCHES OF RAIN PER 24 HOUR PERIOD.  
 III. THOSE WHEN A DETERMINATION THAT ADVERSE WEATHER CONDITIONS PREVENTED INSPECTIONS SHOULD BE DOCUMENTED ON THE INSPECTION RECORD.  
 D. ONCE LAND DISTURBANCE HAS BEGUN ON THE SITE, STORMWATER RUNOFF DISCHARGE OUTFALLS SHALL BE INSPECTED BY OBSERVATION FOR EROSION, SEDIMENTATION AND OTHER STORMWATER DISCHARGE CHARACTERISTICS SUCH AS CLARITY, FLOATING SOLIDS, AND OIL SHEENS. INSPECTIONS OF THE OUTFALLS SHALL BE MADE AT LEAST ONCE EVERY SEVEN CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT OF GREATER THAN 0.50 INCHES OF RAIN PER 24 HOUR PERIOD.  
 E. INSPECTIONS ARE ONLY REQUIRED TO BE MADE DURING NORMAL BUSINESS HOURS. WHEN ADVERSE WEATHER CONDITIONS WOULD CAUSE THE SAFETY OF THE INSPECTION PERSONNEL TO BE IN JEOPARDY, THE INSPECTION CAN BE DELAYED UNTIL IT IS DEEMED SAFE TO PERFORM THESE DUTIES. IF THE INSPECTION CANNOT BE DONE ON THAT DAY, IT MUST BE COMPLETED ON THE FOLLOWING BUSINESS DAY.  
 F. TWENTY-FOUR HOUR REPORTING FOR VISIBLE SEDIMENT DEPOSITION  
 I. THE PERMITTEE SHALL REPORT TO THE DIVISION OF WATER QUALITY CENTRAL OFFICE OR THE APPROPRIATE REGIONAL OFFICE ANY VISIBLE SEDIMENT BEING DEPOSITED IN ANY STREAM OR WETLAND OR ANY NONCOMPLIANCE WHICH MAY ENDANGER HEALTH OR THE ENVIRONMENT. (SEE SECTION IX OF THIS PERMIT FOR CONTACT INFORMATION) ANY INFORMATION SHALL BE PROVIDED ORALLY OR ELECTRONICALLY WITHIN 24 HOURS FROM THE TIME THE PERMITTEE BECAME AWARE OF THE CIRCUMSTANCES. VISIBLE DISCOLORATION OR SUSPENDED SOLIDS IN THE EFFLUENT SHOULD BE RECORDED ON THE INSPECTION RECORD AS PROVIDED BELOW.  
 II. A WRITTEN SUBMISSION SHALL BE PROVIDED TO THE APPROPRIATE REGIONAL OFFICE OF THE DWO WITHIN 5 DAYS OF THE TIME THE PERMITTEE BECAME AWARE OF THE CIRCUMSTANCES. THE WRITTEN SUBMISSION SHALL CONTAIN A DESCRIPTION OF THE SEDIMENT DEPOSITION AND ACTIONS TAKEN TO ADDRESS THE CAUSE OF THE DEPOSITION. THE DIVISION OF WATER QUALITY STAFF MAY WAIVE THE REQUIREMENT FOR A WRITTEN REPORT FOR A CASE-BY-CASE BASIS.  
 G. RECORDS OF INSPECTIONS MADE DURING THE PREVIOUS 30 DAYS SHALL REMAIN ON THE SITE AND AVAILABLE FOR AGENCY INSPECTORS AT ALL TIMES DURING NORMAL WORKING HOURS, UNLESS THE PERMITTING AUTHORITY PROVIDES A SITE-SPECIFIC EXEMPTION THAT MAKE THIS REQUIREMENT NOT PRACTICAL. OLDER RECORDS MUST BE MAINTAINED FOR A PERIOD OF ONE YEAR AFTER PROJECT COMPLETION AND MADE AVAILABLE UPON REQUEST. THE RECORDS MUST PROVIDE THE DETAILS OF EACH INSPECTION INCLUDING OBSERVATIONS, AND ACTIONS TAKEN IN ACCORDANCE WITH THIS PERMIT. THE PERMITTEE SHALL ENTER A STREAM SEGMENT THAT IS LISTED ON THE IMPAIRED STREAM LIST FOR SEDIMENT-RELATED CAUSES, AND A TOTAL MAXIMUM DAILY LOAD (TMDD) HAS BEEN PREPARED FOR THOSE POLLUTANTS, THE PERMITTEE MUST IMPLEMENT MEASURES TO ENSURE THAT THE DISCHARGE OF POLLUTANTS FROM THE SITE IS CONSISTENT WITH THE ASSUMPTIONS AND MEETS THE REQUIREMENTS OF THE APPROVED TDM. THE DWO 303(d) LIST CAN BE FOUND AT: [http://d20.enr.state.nc.us/tmdl/general\\_303d.htm](http://d20.enr.state.nc.us/tmdl/general_303d.htm)  
 H. INSPECTION RECORDS MUST INCLUDE, AT A MINIMUM, THE FOLLOWING:  
 I. CONTROL MEASURE INSPECTION RECORDS MUST INCLUDE AT A MINIMUM:  
 1. IDENTIFICATION OF THE MEASURES INSPECTED.  
 2. DATE AND TIME OF THE INSPECTION.  
 3. NAME OF THE PERSON PERFORMING THE INSPECTION.  
 4. INDICATION OF WHETHER THE MEASURES WERE OPERATING PROPERLY.  
 5. DESCRIPTION OF MAINTENANCE NEEDS FOR THE MEASURE.  
 6. CORRECTIVE ACTIONS TAKEN AND  
 7. DATE OF ACTIONS TAKEN.  
 II. STORMWATER DISCHARGE INSPECTIONS: INSPECTION RECORDS MUST INCLUDE AT A MINIMUM:  
 1. IDENTIFICATION OF THE DISCHARGE OUTFALL INSPECTED.  
 2. DATE AND TIME OF THE INSPECTION.  
 3. NAME OF THE PERSON PERFORMING THE INSPECTION.  
 4. EVIDENCE OF INDICATORS OF STORMWATER POLLUTION SUCH AS OIL SHEEN, FLOATING OR SUSPENDED SOLIDS OR DISCOLORATION.  
 5. INDICATION OF VISIBLE SEDIMENT LEAVING THE SITE.  
 6. ACTIONS TAKEN TO CORRECT/PREVENT SEDIMENTATION AND  
 7. DATE OF ACTIONS TAKEN.  
 III. VISIBLE SEDIMENTATION FOUND OUTSIDE THE SITE LIMITS: INSPECTION RECORDS MUST INCLUDE:  
 1. AN EXPLANATION AS TO THE ACTIONS TAKEN TO CONTROL FUTURE RELEASES.  
 2. ACTIONS TAKEN TO CLEAN UP OR STABILIZE THE SEDIMENT THAT HAS LEFT THE SITE LIMITS AND  
 3. THE DATE OF ACTIONS TAKEN.  
 IV. VISIBLE SEDIMENTATION FOUND IN STREAMS OR WETLANDS: ALL INSPECTIONS SHOULD INCLUDE EVALUATION OF STREAMS OR WETLANDS ON-SITE OR OFF-SITE (WHERE ACCESSIBLE) TO DETERMINE IF VISIBLE SEDIMENTATION HAS OCCURRED.  
 I. VISIBLE STREAM TURBIDITY - IF THE DISCHARGE FROM A SITE RESULTS IN VISIBLE STREAM TURBIDITY, INSPECTION RECORDS MUST RECORD THAT EVIDENCE AND ACTIONS TAKEN TO REDUCE SEDIMENT CONTRIBUTIONS TO STREAMS NAMED ON THE STATE'S 303(d) LIST AS IMPAIRED FOR SEDIMENT-RELATED CAUSES MAY BE REQUIRED TO PERFORM ADDITIONAL MONITORING. INSPECTIONS OR APPLICATION OF MORE-STRINGENT MANAGEMENT PRACTICES IF IT IS DETERMINED THAT THE ADDITIONAL REQUIREMENTS ARE NEEDED TO ASSURE COMPLIANCE WITH THE FEDERAL OR STATE IMPAIRED WATERS CONDITIONS. IF A DISCHARGE COVERED BY THIS PERMIT ENTERS A STREAM SEGMENT THAT IS LISTED ON THE IMPAIRED STREAM LIST FOR SEDIMENT-RELATED CAUSES, AND A TOTAL MAXIMUM DAILY LOAD (TMDD) HAS BEEN PREPARED FOR THOSE POLLUTANTS, THE PERMITTEE MUST IMPLEMENT MEASURES TO ENSURE THAT THE DISCHARGE OF POLLUTANTS FROM THE SITE IS CONSISTENT WITH THE ASSUMPTIONS AND MEETS THE REQUIREMENTS OF THE APPROVED TDM. THE DWO 303(d) LIST CAN BE FOUND AT: [http://d20.enr.state.nc.us/tmdl/general\\_303d.htm](http://d20.enr.state.nc.us/tmdl/general_303d.htm)  
 6. IN THE EVENT OF A CONFLICT BETWEEN THE REQUIREMENTS OF THE SEDIMENTATION POLLUTION CONTROL ACT, THE SUBMITTED PLAN AND/OR THE CONTRACT SPECIFICATIONS, THE MORE RESTRICTIVE REQUIREMENT SHALL PREVAIL. THE LAND-DISTURBING ACTIVITY SHALL BE CONDUCTED IN ACCORDANCE WITH THE APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.  
 7. THE LATEST APPROVED EROSION AND SEDIMENTATION CONTROL PLAN WILL BE USED DURING PERIODIC UNANNOUNCED INSPECTIONS TO DETERMINE COMPLIANCE AND A COPY OF THE PLAN MUST BE ON FILE AT THE JOB SITE. IF IT IS DETERMINED THAT THE IMPLEMENTED PLAN IS INADEQUATE, THIS OFFICE MAY REQUIRE THE INSTALLATION OF ADDITIONAL MEASURES AND/OR THAT THE PLAN BE REVISED TO COMPLY WITH STATE LAW.  
 8. THE CERTIFICATE OF PLAN APPROVAL MUST BE POSTED AT THE PRIMARY ENTRANCE TO THE JOB SITE AND REMAIN UNTIL THE SITE IS PERMANENTLY STABILIZED.  
 9. A BUFFER ZONE SUFFICIENT TO RESTRAIN VISIBLE SEDIMENTATION WITHIN THE FIRST 25% OF THE WIDTH CLOSEST TO THE LAND DISTURBANCE, MUST BE PROVIDED AND MAINTAINED BETWEEN THE LAND-DISTURBING ACTIVITY AND ANY ADJACENT PROPERTY OR WATERCOURSE.  
 10. IN ORDER TO COMPLY WITH THE INTENT OF THE ACT, THE SCHEDULING OF THE LAND-DISTURBING ACTIVITIES IS TO BE SUCH THAT BOTH THE AREA OF EXPOSURE AND THE TIME BETWEEN LAND DISTURBANCE AND PROVIDING GROUND COVER IS MINIMIZED.  
 11. UNLESS A TEMPORARY, MANUFACTURED, LINING MATERIAL HAS BEEN SPECIFIED, A CLEAN STRAW MULCH MUST BE APPLIED, AT A MINIMUM RATE OF 2 TONS/ACRE, TO ALL SEEDED AREAS. THE MULCH MUST COVER AT LEAST 70% OF THE SEEDED AREA AFTER IT IS EITHER TRACKED WITH AN ACCEPTABLE TACKING MATERIAL, OR CRIMPED IN PLACE.  
 12. ADEQUATE AND APPROPRIATE MEASURES MUST BE PROPERLY INSTALLED DOWNSTREAM, WITHIN THE LIMITS OF DISTURBANCE, OF ANY LAND-DISTURBING ACTIVITY TO PREVENT SEDIMENT FROM LEAVING THE LIMITS OF DISTURBANCE, ENTERING EXISTING DRAINAGE SYSTEMS, IMPACTING AN ON-SITE NATURAL WATERCOURSE OR ADJOINING PROPERTY.  
 13. SILT FENCES, INCLUDING OUTLET PROTECTION WITH EQUAL OR GREATER AMOUNT OF RIP-RAP WITHIN 15 DAYS OF DISTURBANCE - OR AS REQUIRED BY NCDDOT/DWO.  
 14. WHERE THE AREA AROUND AN OUTLET IS DISTURBED AND NO OUTLET PROTECTION EXISTS, CLASS "1" RIP-RAP SHALL BE PLACED AROUND PIPE OUTLET AS DIRECTED BY THE ENGINEER.  
 15. PROVIDE EROSION CONTROL MATTING WHERE INDICATED UNLESS DIRECTED OTHERWISE BY THE ENGINEER.  
 16. PROVIDE PERMANENT SEEDING IN ACCORDANCE WITH THE SEEDING SCHEDULE.  
 17. REPORT EROSION CONTROL DEFICIENCIES TO THE ENGINEER IMMEDIATELY.  
 18. ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL ALL SEEDING IS ESTABLISHED AND CONSTRUCTION AREAS HAVE BEEN STABILIZED.  
 19. CONTRACTOR SHALL INSPECT AND MAINTAIN ALL EROSION CONTROL DEVICES ON A WEEKLY BASIS AND AFTER EACH MAJOR STORM EVENT. WHEN INSPECTION REVEALS THE TRAP TO BE REDUCED TO 10% OF DESIGN CAPACITY OR THE DEVICE TO BE DEFICIENT IN ITS INTENDED PURPOSE SUCH AS FABRIC DETERIORATION FOR SILT FENCES THE CONTRACTOR SHALL RESTORE THE DEVICE TO ITS ORIGINAL CONDITION. FAILURE TO KEEP ALL EROSION CONTROL DEVICES IN PROPER WORKING ORDER MAY RESULT IN A STOP WORK ORDER OR CIVIL PENALTIES UP TO \$5,000.00 PER DAY OF VIOLATION.



**CONSTRUCTION SEQUENCE:**

- THIS PROJECT CONSISTS OF CONSTRUCTING LOADING PICNIC FACILITIES, A BATHHOUSE, AND HARDSCAPE IMPROVEMENTS.
- CONTRACTOR MUST SCHEDULE A PRE-CONSTRUCTION MEETING WITH THE EROSION CONTROL OFFICER PRIOR TO INITIATING LAND DISTURBING ACTIVITIES.
- |   |         |
|---|---------|
| 1. EROSION CONTROL IMPLEMENTATION             | 1 WEEK  |
| 2. ROUGH GRADING                              | 2 WEEKS |
| 3. BUILDING/SHELTER/HARDSCAPE CONSTRUCTION    | 2 WEEKS |
| 4. FINE GRADING AND PAVING                    | 2 WEEKS |
| 5. LANDSCAPING, IRRIGATION, SEEDING, MULCHING | 1 WEEK  |
- SINCE SOME ITEMS WILL BE PERFORMED CONCURRENTLY, AN ANTICIPATED COMPLETION TIME OF THREE (3) MONTH IS EXPECTED FOR THIS PROJECT.



**REVISIONS:**

NO.	DATE	DESCRIPTION
1	6-SEP-17	JDW
2		RPD

Owner's comments

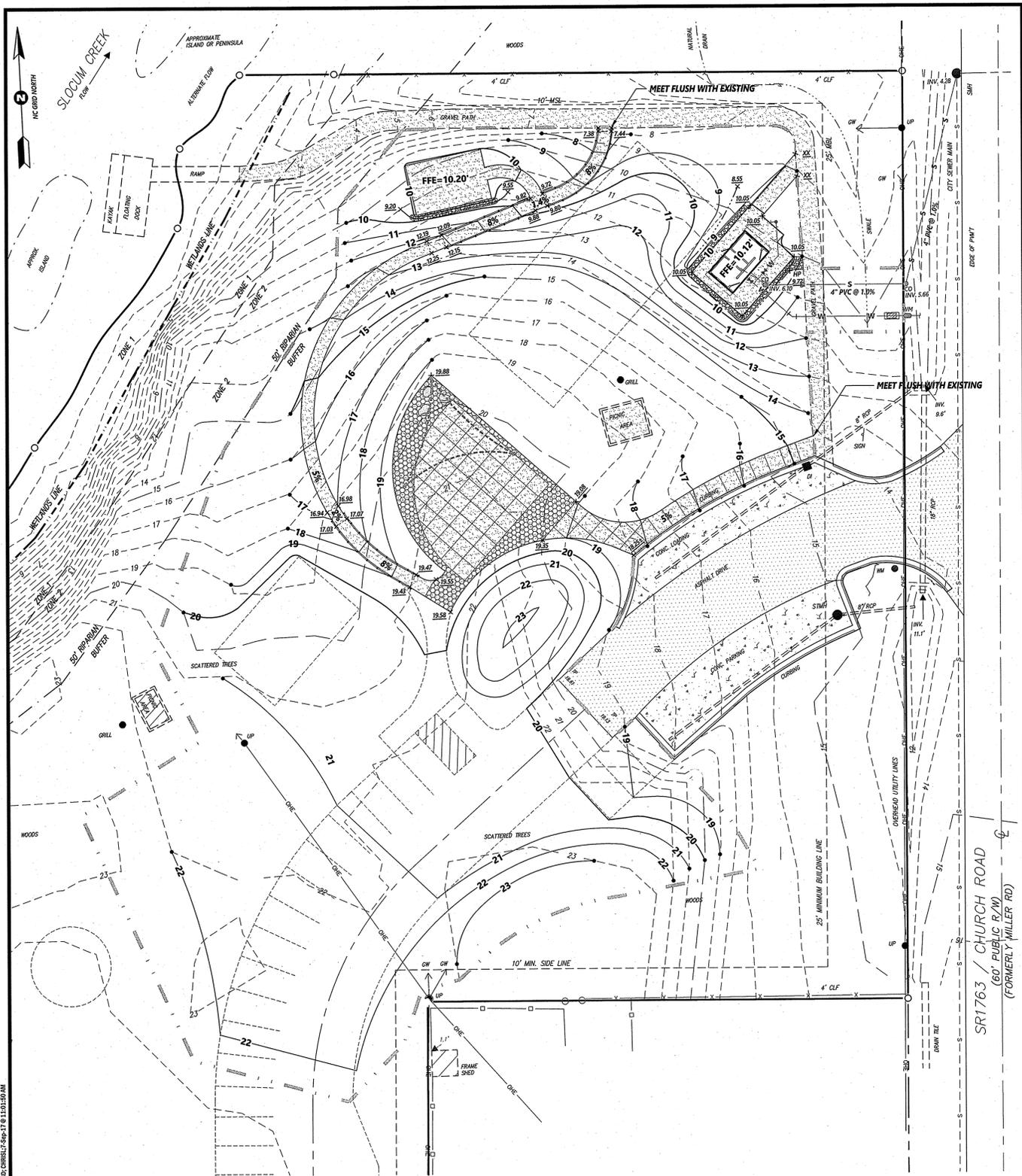
**Rivers & Associates, Inc.**  
 107 East Second Street  
 Greenville, NC 27838  
 (252) 756-4158  
 Landscape Architects

**City of Havelock**  
 Slocum Park - Phase IV Improvements  
 NORTH CAROLINA  
 CRAVEN COUNTY

**August 8, 2017**

SURVEY - DRAFT LC  
 DESIGN DW/SR CHECK JDW  
 PROJECT No. 2017027  
 DRAWING No. W-3722  
 SCALE: AS NOTED  
 SHEET No. OF 9

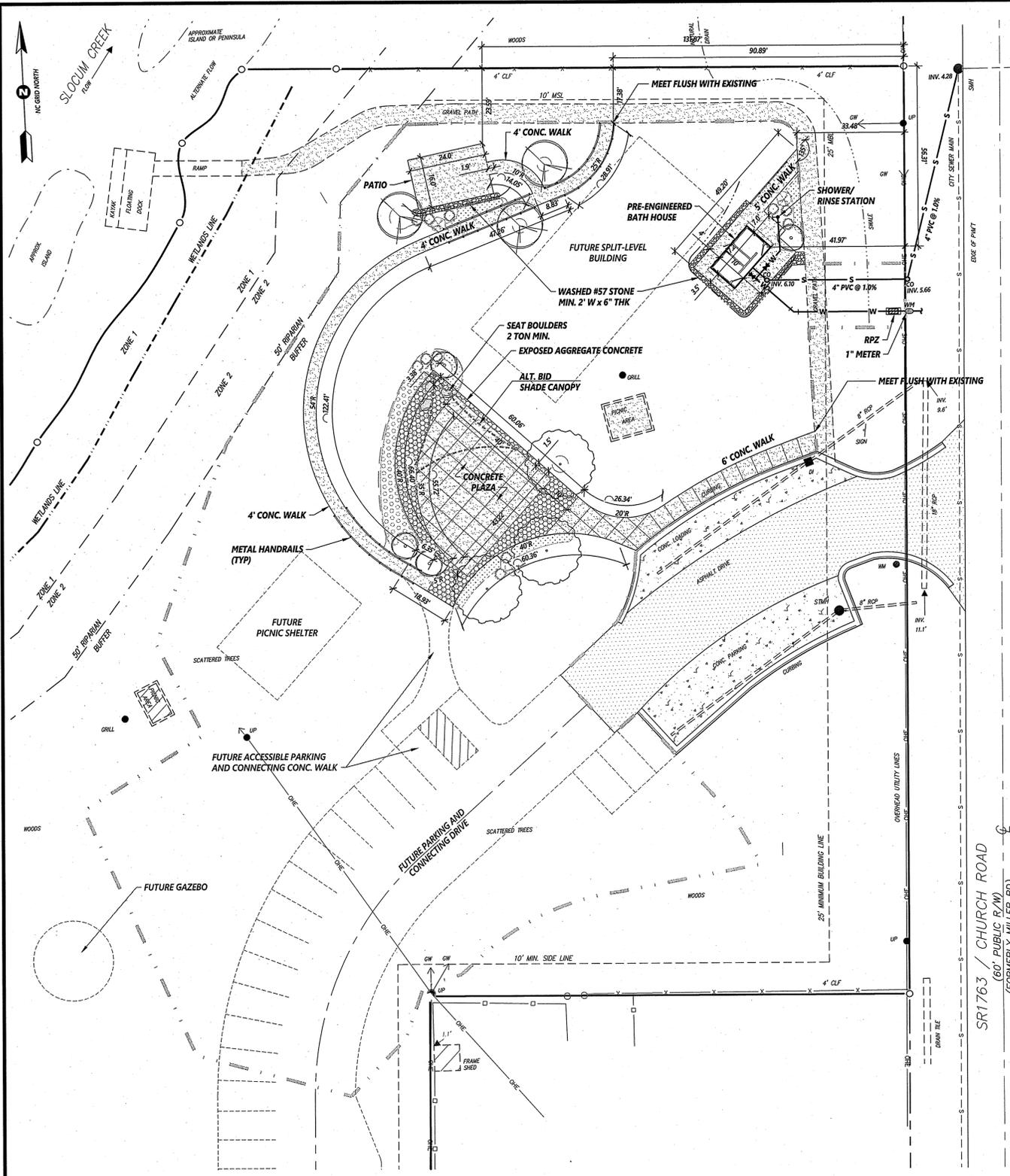
**C3**



**GRADING & DRAINAGE PLAN**

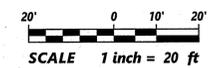
SCALE: 1" = 20'

**NOTE:**  
 ALL SLOPES INDICATED ARE MAXIMUMS  
 IN-LINE WITH DIRECTION OF TRAVEL  
 CROSS-SLOPE IN ALL LOCATIONS ALONG  
 SIDEWALK SHALL NOT EXCEED 2%.



**SITE & UTILITIES PLAN**

SCALE: 1" = 20'



REVISIONS:

NO.	DATE	DESCRIPTION
1	6-SEP-17	JDW
2		RPD



**Rivers**  
 & ASSOCIATES, INC.  
 ENGINEERS  
 PLANNERS  
 SURVEYORS  
 LANDSCAPE ARCHITECTS

1107 East Second Street  
 Greenville, NC 27838  
 (252) 755-4195

**City of Havelock**  
 Slocum Park - Phase IV Improvements

SR1763 / CHURCH ROAD  
 (60' PUBLIC R/W)  
 (FORMERLY MILLER RD)

SR1763 / CHURCH ROAD  
 (60' PUBLIC R/W)  
 (FORMERLY MILLER RD)

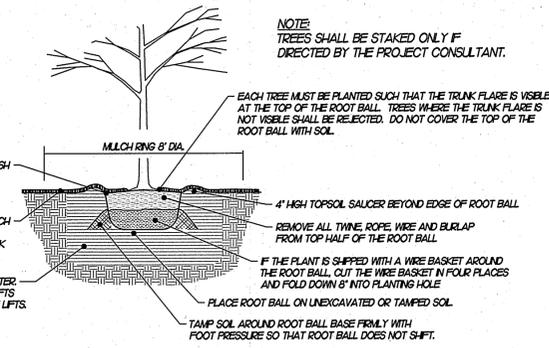
PROJECT No. **2017027**  
 DRAWING No. **W-3722**  
 SCALE: **AS NOTED**  
 SHEET No. **OF 9**

**C4**

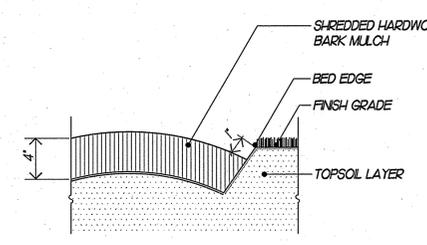


CALL BEFORE YOU DIG  
 WWW.NC811.ORG  
 N.C. ONE-CALL CENTER  
 IT'S THE LAW!

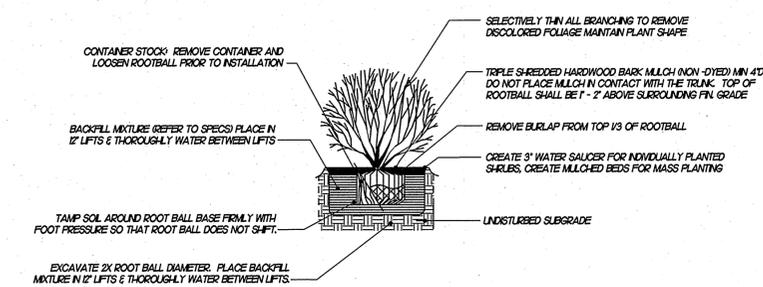
P:\Projects\Havelock - Slocum Park Ph IV - 2017\2017 CAD - DWG\3722 - Slocum Park Ph IV.dwg 6/28/17 11:03:50 AM



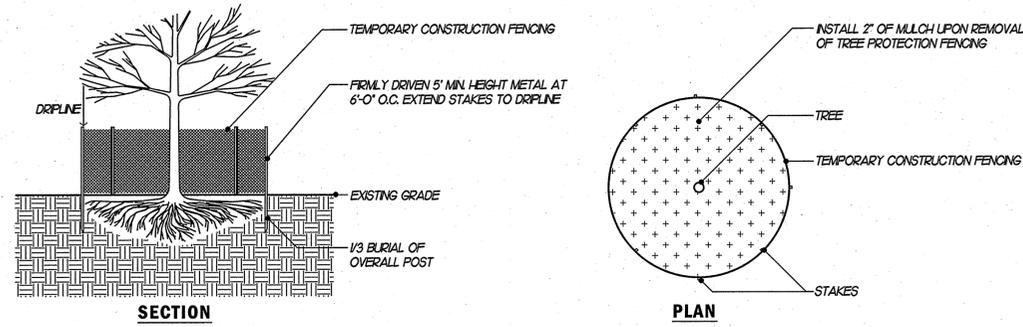
**TREE PLANTING**  
NTS



**PLANTING BED EDGE**  
NTS



**SHRUB PLANTING**  
NTS



**TREE PROTECTION FENCE**  
NTS

**PLANTING SCHEDULE**

SYMBOL	KEY	QTY	BOTANICAL NAME (COMMON NAME)	HEIGHT	SPREAD	CALIPER	CONT.	REMARKS
<b>SMALL TREES</b>								
QN	3	3	QUERCUS NUTTALLI (NUTTALL OAK)	12' MIN.	5' MIN.	3" MIN.	-	SINGLE, STRAIGHT LEADER, SYMMETRICAL, FULL CROWN
BN	3	3	BETULA NIGRA 'DURA HEAT' (DURA HEAT RIVER BIRCH)	7' MIN.	-	-	-	2 TO 3 CANES, FULL CROWN
CC	4	4	CERCIS CANADENSIS 'FOREST PANSY' (FOREST PANSY REDBUD)	6' MIN.	-	1.5" MIN.	-	SINGLE, STRAIGHT LEADER, FULL CROWN
<b>SHRUBS &amp; GRASSES</b>								
AA	3	3	ARTEMISIA VULGARIS 'BRILLIANTISSIMA' (RED CHOKEBERRY)	30" MIN.	-	-	-	FULL, PLANT AS SHOWN (5' O.C.)
IV	12	12	ITEA VIRGINICA 'LITTLE HENRY' (LITTLE HENRY SWEETSPRE)	18" MIN.	-	-	-	SINGLE, STRAIGHT LEADER, SYMMETRICAL, FULL CROWN
BG	74	74	BOUTELOUA GRAEUS 'BLONDE AMBITION' (BLONDE AMBITION GRAMA GRASS)	15" MIN.	-	-	-	FULL, PLANT @ 2' O.C.
PV	81	81	PANICUM VIRGATUM 'SHENANDOAH' (SHENANDOAH SWITCH GRASS)	18" MIN.	-	-	-	FULL, PLANT @ 2' O.C.

**PLANTING NOTES:**

The Contractor shall furnish plant material shown on the drawings, as specified and as indicated on the plant list. The Owner or his authorized representative shall be notified prior to the beginning of planting operations.

STANDARDS: All plants shall be in accordance with the American Standard For Nursery Stock, latest edition, published by the American Association of Nurserymen, Inc. with regard to sizing and description.

QUALITY: All plants shall be nursery grown and hardy under climatic conditions similar to those in the locality of the project. All plants shall be typical of their species or variety and shall have a normal habit of growth. They shall be sound, healthy and vigorous, well branched and densely foliated when in leaf. They should be free of disease and insect pests, eggs or larvae. They shall have healthy, well-developed root systems.

SUBSTITUTIONS: When plants of a specified kind or size are not available within a reasonable distance, the contractor may make substitutions upon request, if approved by the Project Consultant. Proposal for substitution of plant material shall be submitted at least 10 days prior to the final bid date for consideration.

SIZE: All plants shall conform to the measurements specified on the plant list unless otherwise authorized in writing by the Project Consultant.

PRUNING: Each tree and shrub shall be pruned in accordance with American Association of Nurserymen, Inc. standards to preserve the natural character of the plant. All dead wood or suckers and all broken or badly bruised branches shall be removed.

ROOT SYSTEMS: Balled & burlapped plants shall be dug with firm natural balls of earth of diameter and depth to include most of the fibrous roots. Container grown stock shall have been grown in a container long enough for the root system to have developed sufficiently to hold its soil together firm and whole. No plants shall be loose in container or ball.

PROTECTION: Root balls, trunks, branches and foliage of plants shall be adequately protected at all times from sun and drying wind or frost. Plants with broken root balls or excessive damage to the crown shall be replaced, in kind, prior to installation.

MULCH: Immediately following plant installations all tree and shrub planting pits shall be covered with four (4") layer of triple shredded hardwood mulch (non-dyed). The limits of this mulch for deciduous trees and single evergreen trees shall be the area of the pit; for evergreen tree clusters or shrub masses; a mulched bed shall be created.

ANTI-DESICCANT SPRAY: Trees and when planted in leaf shall be treated with anti-desiccant such as "Wilt-Proof".

PLANTING MIX: Before backfilling, the topsoil back fill mixture shall be prepared and mixed to the following proportions: Deciduous plants - two parts by volume of topsoil, one part organic compost and five pounds bone meal per cubic yard. Evergreen Plants - three parts by volume of topsoil and one part organic compost. Fertilizer - to the above mixtures, add three pounds of specified commercial fertilizer for trees up to three (3") inches in caliper and one pound per inch of caliper for larger trees. Shrubs shall be fertilized with six (6) ounces of fertilizer for shrubs four (4"-7") feet and over.

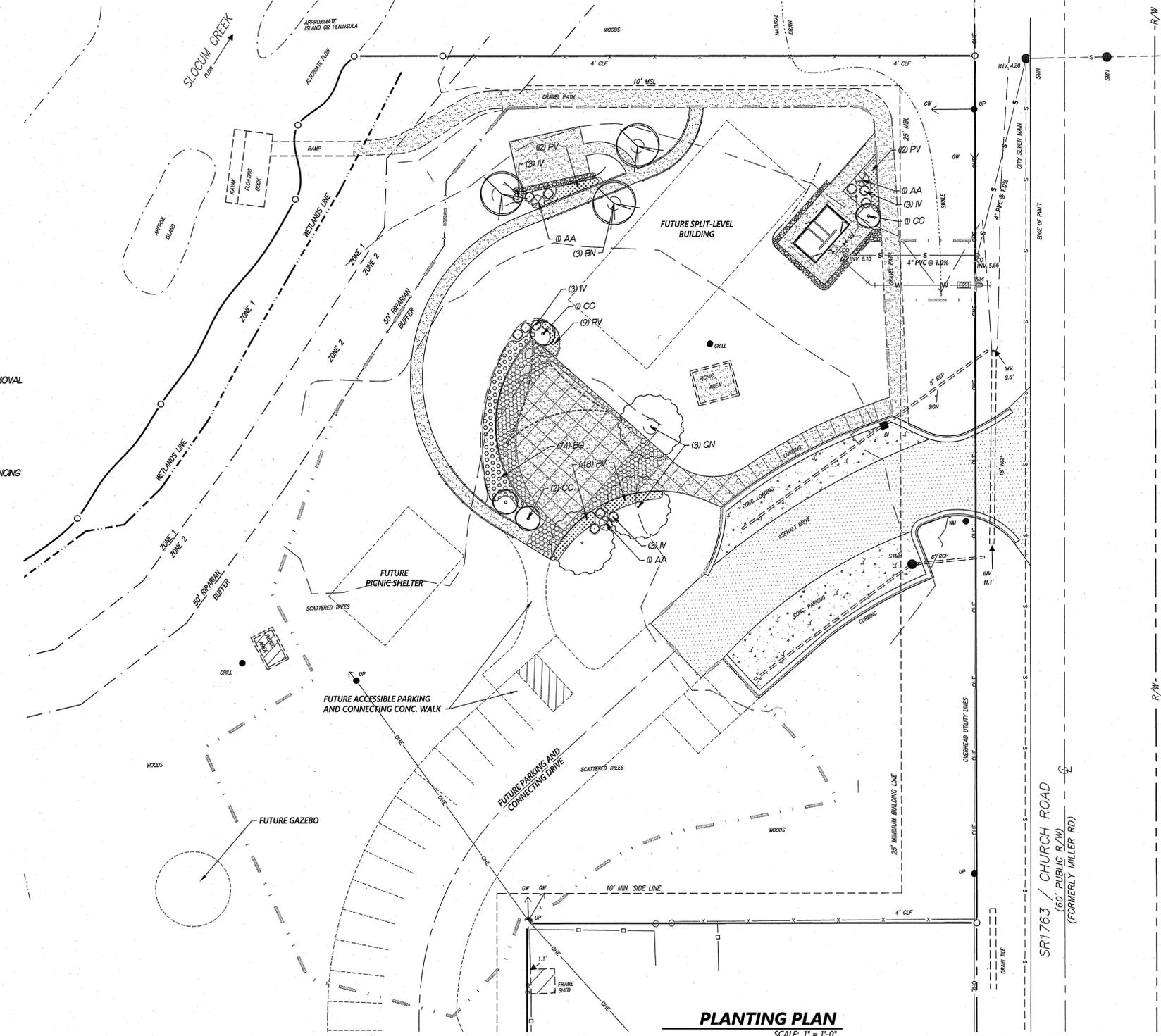
STAKING & GUYING: Trees shall be staked and guyed as is detailed on the drawings and according to accepted industry practice.

LAYOUT: The contractor shall layout with identifiable stakes, the location of all plants and the arrangement and outlines of planting beds as indicated on the drawings. Prior to any excavation of plant pits or preparation of planting beds, the Project Consultant shall approve the layout of planting. All planting shall be at the locations indicated on the drawings. The Contractor shall be responsible for planting at the correct grades, alignment and layout of planting beds. Minor adjustments to tree locations may be necessary due to field conditions and final grading. The Contractor shall notify the Project Consultant if major adjustments are anticipated.

ADVERSE CONDITIONS: The contractor shall notify the Project Consultant in writing of any soil or drainage conditions which the Contractor considers detrimental to plant growth. The documented conditions shall include a proposal for correcting the situation, including any change in cost, for review and acceptance by the Project Consultant.

QUANTITY: The quantity of plants in the Plant Schedule is for general reference only. The Contractor shall obtain quantities for pricing by compiling numbers from the plants illustrated on the drawings. Should there be a discrepancy between the drawings and the plant schedule, the quantities illustrated on the drawings shall take precedence.

GUARANTEE: The Contractor shall guarantee all plant material for a full year from the date of initial acceptance. The Owner shall be responsible for maintenance unless otherwise agreed. It is the Contractor's responsibility to monitor the project during the guarantee period and notify the Owner in writing if problems are occurring or situations developed that appear detrimental to the plant material. Any plant material that is 25% dead or more shall be considered dead and must be replaced at no charge to the Owner. A tree is considered dead when the main leader has died back or there is 25% of the crown dead.



**PLANTING PLAN**  
SCALE: 1" = 7'-0"

**REVISIONS:**

NO.	DATE	DESCRIPTION
1	6-SEP-17	JDW

**PLANTING PLAN**  
Slocum Park - Phase IV Improvements  
**City of Havelock**  
NORTH CAROLINA  
GRAVEN COUNTY

NC License: F-4084  
**Rivers**  
& ASSOCIATES, INC.  
riversandassociates.com Since 1918  
107 East Second Street  
Greenville, NC 27606  
(252) 752-4156  
Engineers  
Planners  
Surveyors  
Landscape Architects

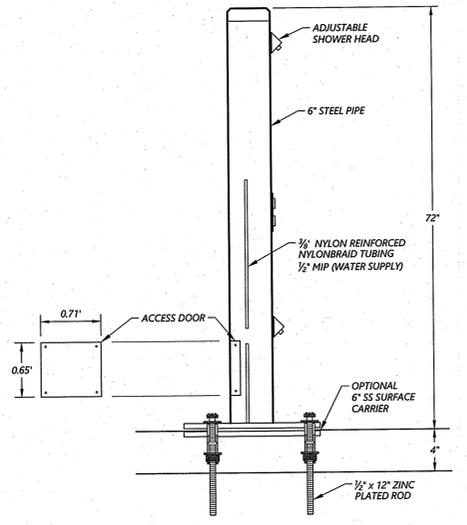
SEAL: NORTH CAROLINA PROFESSIONAL ENGINEERS AND SURVEYORS  
C-312  
August 8, 2017

SR1763 / CHURCH ROAD (60' PUBLIC R/W) (FORMERLY MILLER RD)  
SR1763 / CHURCH ROAD (60' PUBLIC R/W) (FORMERLY MILLER RD)

SURVEY	DRAWN	SR/LC
DESIGN	SKR	CHECK SKR

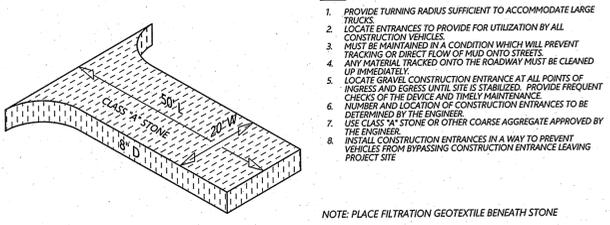
PROJECT No. 2017027  
DRAWING No. W-3722  
SCALE: AS NOTED  
SHEET No. OF 9

**L1**



NOTES:  
1. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS.

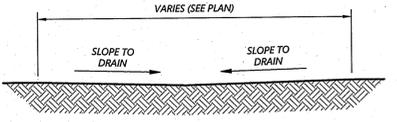
**12 FOOT WASH / RINSE STATION**  
N.T.S.



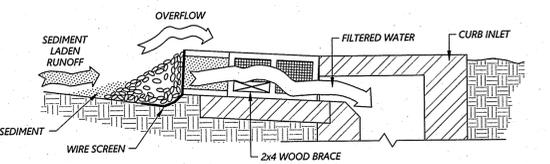
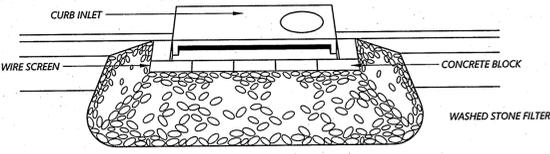
- NOTES:
1. PROVIDE TURNING RADIUS SUFFICIENT TO ACCOMMODATE LARGE TRUCKS.
  2. LOCATE ENTRANCES TO PROVIDE FOR UTILIZATION BY ALL CONSTRUCTION VEHICLES.
  3. MUST BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR DIRECT FLOW OF MUD ONTO STREETS.
  4. ANY MATERIAL TRACKED ONTO THE ROADWAY MUST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

NOTE: PLACE FILTRATION GEOTEXTILE BENEATH STONE

**9 TEMPORARY GRAVEL CONSTRUCTION ENTRANCE**  
N.T.S.  
EC-38



**10 GRADED SWALE**  
N.T.S.  
SS-18

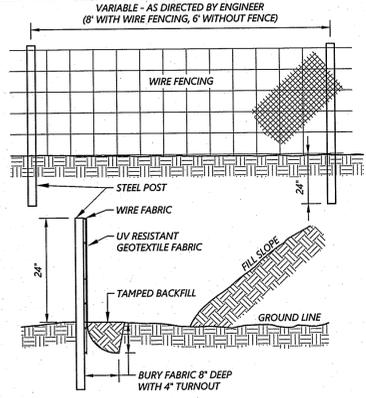


- NOTES:
1. SEDIMENT BARRIERS SHALL BE PROVIDED FOR ALL CURB INLETS IN THE IMMEDIATE AREA OF CONSTRUCTION.
  2. TWO (2) CONCRETE BLOCKS SHALL BE PLACED ON THEIR SIDES ABUTTING THE CURB AT EITHER SIDE OF THE INLET OPENING. A 2x4 STUD SHALL BE CUT AND PLACED THRU THE OUTER HOLES OF THE SPACER BLOCKS TO BRACE THE FRONT BLOCKS. FRONT BLOCKS ARE PLACED ON THEIR SIDES ACROSS THE INLET AND ABUTTING THE SPACER BLOCKS.
  3. WIRE MESH OR HARDWARE CLOTH WITH 1/2" OPENINGS SHALL BE PLACED OVER THE OUTSIDE VERTICAL FACE (WEBBING) OF THE BLOCKS, TO PREVENT STONE FROM BEING WASHED THROUGH THE HOLES IN THE BLOCKS.
  4. NCDOT #57 STONE SHALL BE PILED AGAINST THE WIRE TO THE TOP OF THE BLOCK.
  5. CHECK DEVICE AFTER EACH RAIN. REPLACE WASHED STONE IF IT CLOGS WITH SEDIMENT.

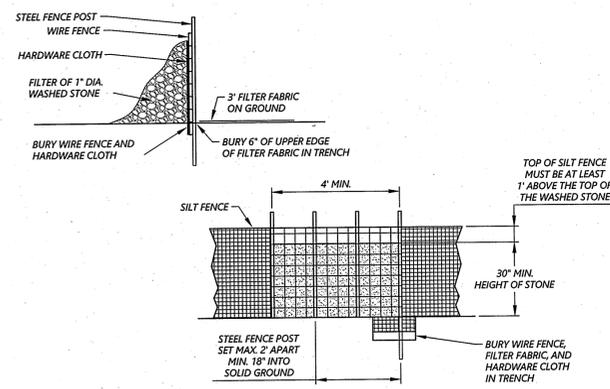
**11 BLOCK AND GRAVEL CURB INLET SEDIMENT BARRIER**  
N.T.S.  
EC-88

NOTES:

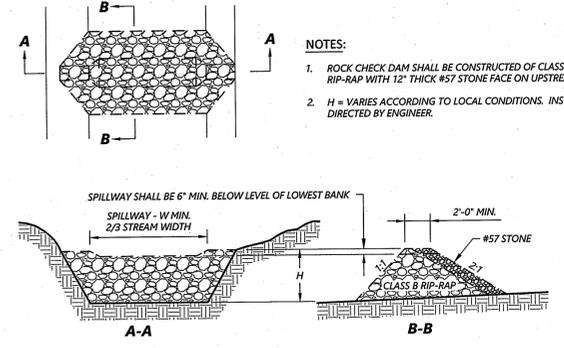
1. USE STANDARD STRENGTH FABRIC WITH 8" POST SPACING AND WIRE FENCING WHERE REINFORCED SILT FENCE IS REQUIRED.
2. WITH EXTRA STRENGTH FABRIC, USE 6" POST SPACING AND NO WIRE FENCING.
3. WIRE FENCING TO BE 32" WITH 6-LINE WIRES AND STAY WIRES ON 12" CENTERS/ BOTTOM AND TOP WIRES 10 GA., INTERMEDIATE WIRES 12.5 GA.



**5 TEMPORARY SILT FENCE**  
N.T.S.  
EC-1



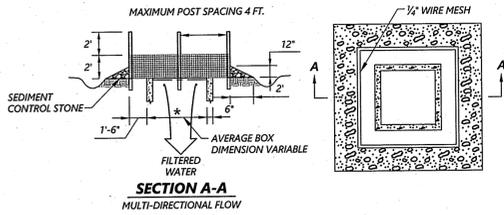
**6 SILT FENCE OUTLET**  
N.T.S.



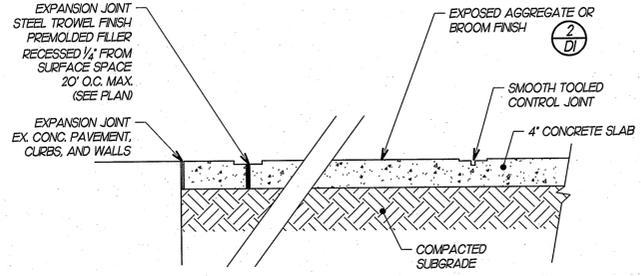
**7 TEMPORARY ROCK SILT CHECK DAM**  
N.T.S.  
EC-3

NOTE:

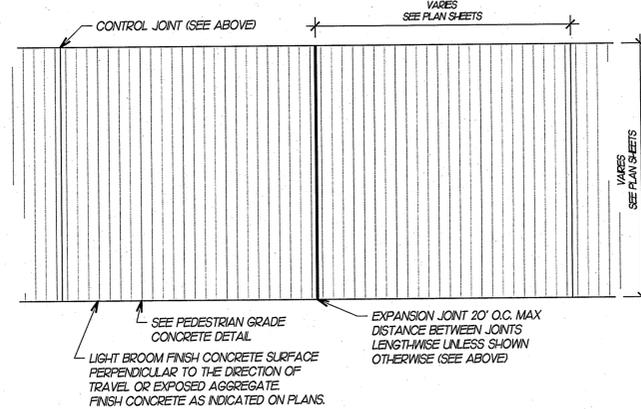
1. SEDIMENT CONTROL STONE SHALL BE NO. 5 OR NO. 57.
2. WIRE MESH SHALL BE HARDWARE CLOTH 23 GAUGE MIN. AND SHALL HAVE 1/4 INCH MESH OPENINGS.
3. TOP OF WIRE MESH SHALL BE A MINIMUM OF ONE FOOT BELOW THE SHOULDER OR ANY DIVERSION POINT.
4. STEEL POST SHALL BE 5 FT. IN HEIGHT, BE INSTALLED 1.5 FT. DEEP MINIMUM, AND BE OF THE SELF-FASTENER ANGLE STEEL TYPE.



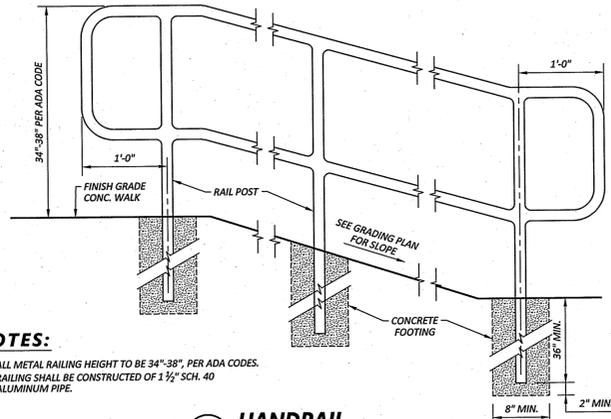
**8 ROCK INLET SEDIMENT BARRIER**  
N.T.S.  
EC-15



**1 PEDESTRIAN GRADE CONCRETE**  
N.T.S.



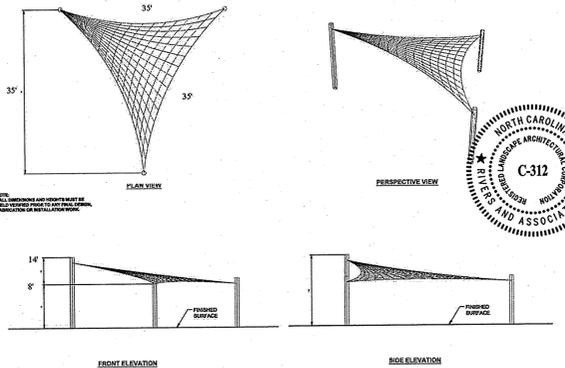
**2 CONCRETE FINISHING**  
N.T.S.



NOTES:

1. ALL METAL RAILINGS HEIGHT TO BE 34"-36", PER ADA CODES.
2. RAILING SHALL BE CONSTRUCTED OF 1 1/2" SCH. 40 ALUMINUM PIPE.

**3 HANDRAIL**  
N.T.S.



**4 SHADE STRUCTURE ALTERNATE BID**  
N.T.S.

REVISIONS:	
NO.	DATE
6-SEP-17	JDW
	BRP



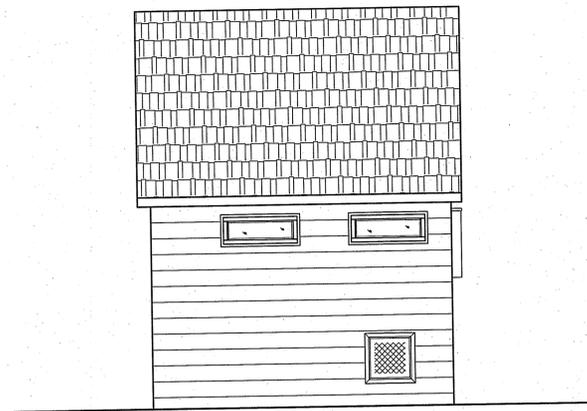
**MISC. CONSTRUCTION DETAILS**  
Slocum Park - Phase IV Improvements  
**City of Havelock**  
NORTH CAROLINA  
GRAVEN COUNTY

**Rivers**  
INC. License: F-4334  
riversandassociates.com Since 1916  
107 East Second Street Greenville, NC 27659  
(852) 782-4185  
Professional Engineer License No. 38746  
J. D. W. (JDW)

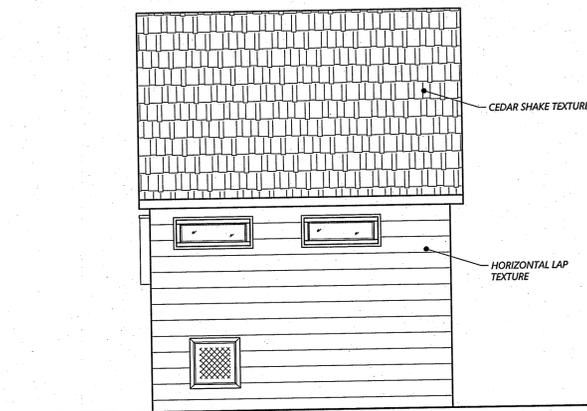
August 8, 2017

SURVEY	DRAFT	LC
DESIGN	DW/SR	CHECK DW/SR
PROJECT No.	2017027	
DRAWING No.	W-3722	
SCALE:	AS NOTED	
SHEET No.	OF 9	

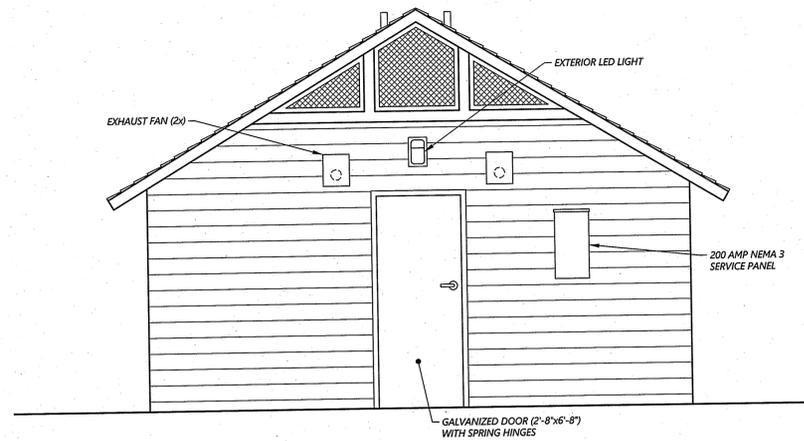
**D1**



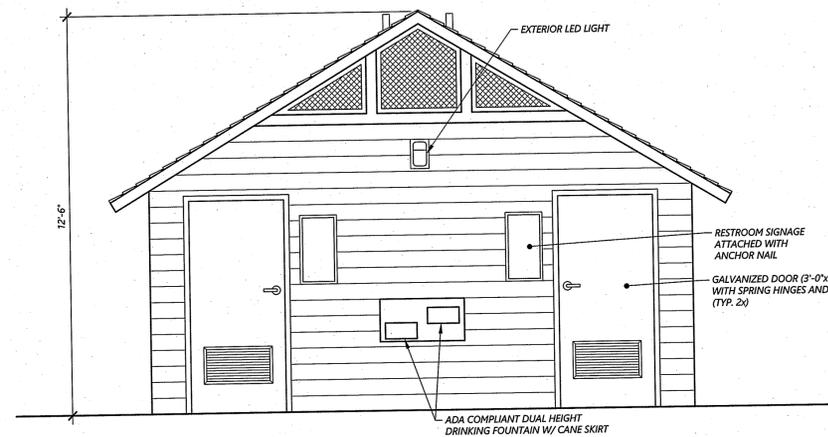
**RIGHT ELEVATION**



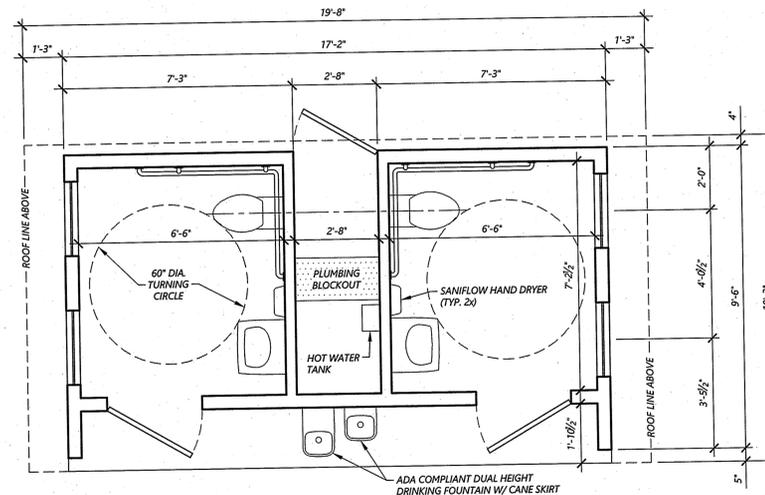
**LEFT ELEVATION**



**REAR ELEVATION**



**FRONT ELEVATION**



**PLAN**

REVISIONS:

NO.	DATE	BY	DESCRIPTION
1	6-SEP-17	JDW	OWNER COMMENTS
2		BE	



**PRE-ENGINEERED BATH HOUSE SCHEMATIC**  
 Slocum Park - Phase IV Improvements  
**City of Havelock**  
 CRAVEN COUNTY NORTH CAROLINA

**Rivers & Associates, Inc.**  
 No. License: F-4034  
 Since 1978  
 Engineers  
 Planners  
 Surveyors  
 Landscape Architects  
 107 East Second Street  
 Greenville, NC 27836  
 (252) 752-4185



**August 8, 2017**  
 KATHLEEN WILSON  
 ARCHITECT

SURVEY	DRAFT	LC/SR
DESIGN	DW/SR	CHECK DW/SR
PROJECT No.	2017027	
DRAWING No.	W-3722	
SCALE:	AS NOTED	
SHEET No.	OF 9	

**D2**

P:\landsc\havelock - Slocum Park Ph IV - 2017027 CAD - DWG\W3722 - Slocum Park Ph IV.dwg 02/28/17 10:02:12 AM

