VICINITY MAP

## Plan Index

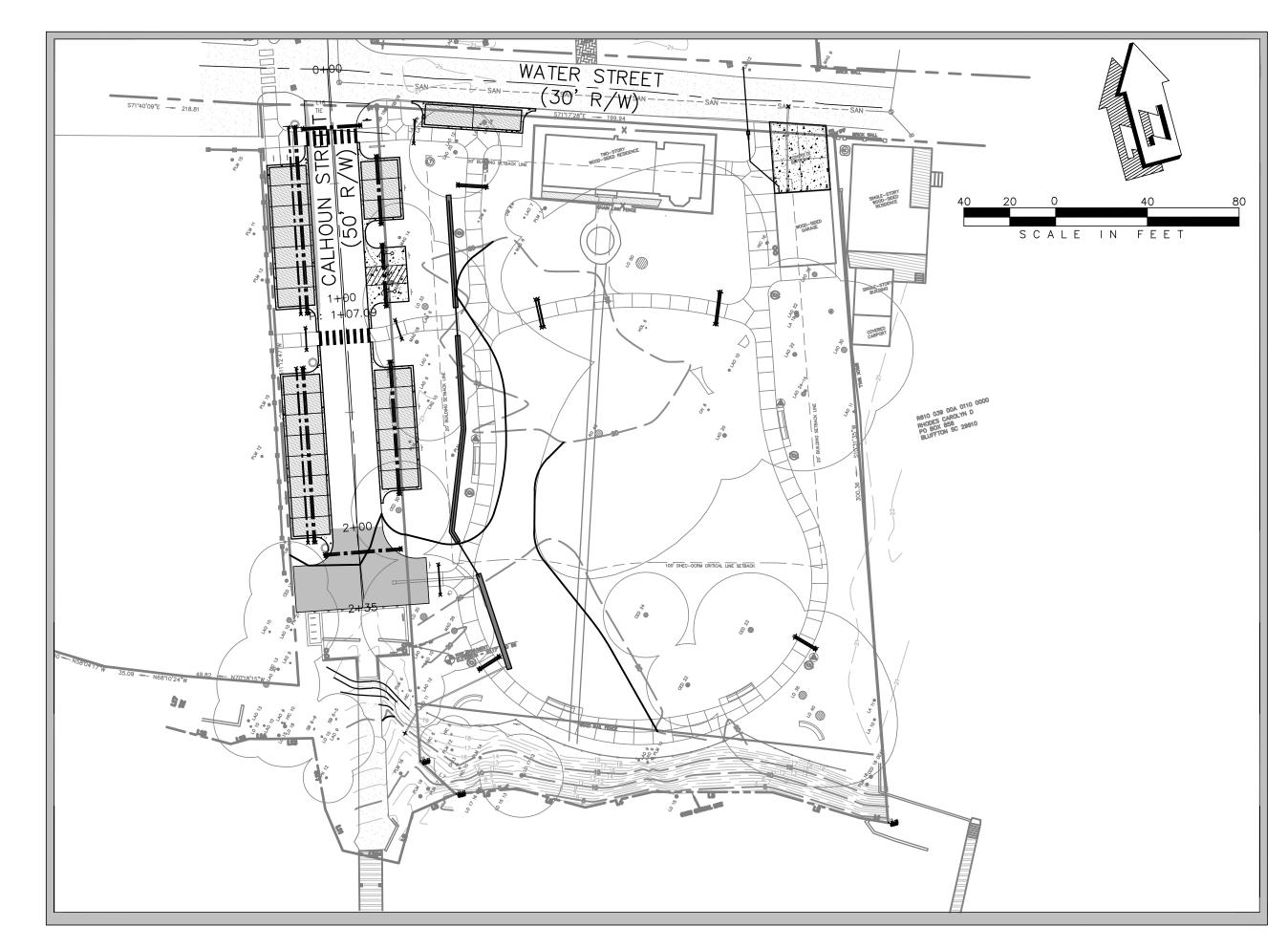
Sheet Number Sheet Title TITLE SHEET C1.0 C1.1 GENERAL NOTES AND LEGEND C2.0 **EXISTING CONDITIONS** C3.0 SWPP & DEMOLITION PLAN C3.1 **SWPPP DETAILS** C4.0 SITE PLAN C5.0 GRADING AND DRAINAGE PLAN C6.0 SITE & DRAINAGE DETAILS C6.1 SITE & DRAINAGE DETAILS C7.0 **UTILITY PLAN** C7.1 UTILITY DETAILS

# WRIGHT FAMILY PARK

PREPARED FOR

# TOWN OF BLUFFTON

20 BRIDGE STREET BLUFFTON, SC 29910



PREPARED BY



## **ENGINEERS - PLANNERS - SURVEYORS**

14 Westbury Park Way, Suite 202, Bluffton, SC 29910 Telephone 843-815-3191 mail@CranstonEngineering.com

3/5/2019





## PROJECT DATA:

1. ACREAGE OF PROPERTY: 1.72 ACRES 1.72 ACRES 2. ACREAGE OF DEVELOPMENT: 3. OWNER/DEVELOPER: TOWN OF BLUFFTON 20 BRIDGE STREET BLUFFTON, SC 29910 PHONE: 843-706-4521 24 HOUR CONTACT: NAME: PAT ROONEY PHONE: 843-706-4521 4. TAX MAP NUMBERS: R610 039 00A0111 0000 5. ZONING: RIVERFRONT EDGE - HD 6. STORM WATER OUTFALL: MAY RIVER 7. DRAINAGE AREA THIS PROJECT: 1.72 ACRES 8. IMPERVIOUS AREA: EXISTING: 0.26 ACRES 0.39 ACRES PROPOSED: 9. PERVIOUS AREA: **EXISTING:** 1.46 ACRES PROPOSED: 1.33 ACRES MAY RIVER 10. RECEIVING STREAM: MAY RIVER 11. ULTIMATE STREAM: 12. EXISTING LAND USE: RECREATIONAL 13. PROPOSED LAND USE: RECREATIONAL

## **REVISION LOG:**

REVISION NUMBER: 1
DATE: 3/5/2019
REASON: BID AND PERMIT PLANS ISSUED TO TOWN
SHEETS ISSUED: ALL

REVISION NUMBER: 2

DATE: 3/15/2019 REASON: BID AND PERMIT PLAN REVISIONS ISSUED TO TOWN SHEETS ISSUED: ALL

REVISION NUMBER: 3 DATE: 3/26/2019

REASON: RÉVISIONS FOR BID ADDENDUM; WATER SERVICE; STOP SIGNS SHEETS ISSUED: ALL



PROPOSED WATER METER

WVLT

WATER VAULT

PROJECT MANAGER PAT ROONEY TOWN OF BLUFFTON (843) 706-4521

### ENGINEER OF RECORD

ANDREW BAJOCZKY, P.E. CRANSTON ENGINEERING GROUP P.C. (843) 314-1965

## **UTILITIES:**

WATER AND SEWER
BEAUFORT-JASPER WATER & SEWER AUTHORITY SERVICE CONTACT: 843-987-9200 REPORT OUTAGE: 843-987-3200

SERVICE CONTACT: 800-251-7234 REPORT OUTAGE: 888-333-4465

# COMMUNICATION HARGRAY

SERVICE CONTACT: 843-815-1600 REPORT OUTAGE: 843-686-1138

#### **GENERAL NOTES:**

- 1. PLANS CONTAINED HEREIN ARE FOR IMPROVEMENTS APPROVED BY THE TOWN OF BLUFFTON (OWNER) AND BEAUFORT JASPER WATER AND SEWER AUTHORITY (BJWSA). ANY VARIATION FROM THE APPROVED PLANS MUST BE APPROVED IN WRITING BY THE
- 2. A PRE-CONSTRUCTION CONFERENCE SHALL BE HELD WITH THE OWNER AND ENGINEER PRIOR TO BEGINNING CONSTRUCTION. THIS
- MEETING SHALL BE SCHEDULED WITH THE OWNER AND ENGINEER AT THE TIME NOTICE TO PROCEED IS GIVEN. 3. THE OWNER AND ENGINEER SHALL BE NOTIFIED AT LEAST 48 HOURS IN ADVANCE, DURING REGULAR HOURS (8:00 AM TO 5:00 PM,
- 4. ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION FOR THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION (SCDOT), TOWN OF BLUFFTON SPECIFICATIONS, AND
- THE PROJECT SPECIFICATIONS 5. THE CONTRACTOR WILL BE REQUIRED TO HAVE ON SITE A COPY OF SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION STANDARD
- SPECIFICATIONS AND STANDARD DRAWINGS, LATEST EDITION.

MONDAY THROUGH FRIDAY, EXCLUDING HOLIDAYS), BEFORE THE COMMENCEMENT OF ANY CONSTRUCTION ACTIVITY.

- 6. NO WORK SHALL COMMENCE WITHIN SCDOT'S RIGHT-OF-WAY UNTIL AN APPROVED SCDOT ENCROACHMENT PERMIT HAS BEEN
- 7. ANY DISCREPANCIES, ERRORS, OR OMISSIONS DISCOVERED ON THE PLANS OR IN THE SPECIFICATIONS SHOULD BE IMMEDIATELY BROUGHT TO THE ENGINEERS ATTENTION, NOTED ON THE CONTRACTOR'S PROPOSAL, AND DOES NOT RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITY TO CORRECT THE SAME AND CONSTRUCT THE PROJECT AS DESIGNED.

## GENERAL EXISTING CONDITIONS & SURVEY NOTES:

- DATE OF SURVEY 09/10/2018 BY SEA ISLAND LAND SURVEY, LLC THE DATA, TOGETHER WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS, OR INDICATED IN ANY WAY THEREBY, WHETHER BY DRAWINGS OR NOTES OR ANY OTHER MANNER, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF ACTUAL CONDITIONS. HOWEVER, THE SAME ARE SHOWN AS INFORMATION ONLY AND ARE NOT GUARANTEED
- 3. ACCORDING TO THE FEMA FIRM PANEL NO. 0001A COMMUNITY NO. 450251, DATED 09/29/86, THIS PROJECT IS LOCATED WITHIN
- FLOOD ZONES 'A6' & 'C' WITH A BASE FLOOD ELEVATION OF 14.0' AND N/A. 4. THE CONTRACTOR WILL IMMEDIATELY NOTIFY THE OWNER IN THE EVENT THAT PREVIOUSLY UNKNOWN HISTORICAL OR ARCHEOLOGICAL
- SITES ARE DISCOVERED DURING CONSTRUCTION. NO ADDITIONAL WORK IN SUCH AREAS WILL BE ALLOWED UNTIL AUTHORIZED IN
- 5. PROPERTY LINES SHOWN HEREIN HAVE BEEN DERIVED BY PLAT INFORMATION AND GIS DATA OBTAINED FROM THE TOWN OF
- 6. DISTURBANCES TO ANY SURVEY MARKERS OR MONUMENTS REQUIRES RE-ESTABLISHMENT BY A LICENSED SURVEYOR AT THE CONTRACTOR'S EXPENSE.

### GENERAL EROSION CONTROL NOTES:

1. ALL SILT BARRIERS MUST BE PLACED PRIOR TO LAND DISTURBING ACTIVITIES.

2. ALL DRAINAGE EASEMENTS & DISTURBED AREAS MUST BE GRASSED AND/OR RIP-RAPPED AS REQUIRED TO CONTROL

## GENERAL UTILITIES NOTES:

- 1. THE EXISTENCE, ABSENCE, LOCATION AND ELEVATION OF UNDERGROUND UTILITIES ON THE PLANS ARE NOT BASED ON FIELD MARKS. ARE NOT GUARANTEED, AND SHALL BE INVESTIGATED, UNEARTHED IF NECESSARY, AND VERIFIED BY CONTRACTOR BEFORE BEGINNING CONSTRUCTION.
- 2. THE CONTRACTOR SHALL CONTACT SOUTH CAROLINA 811, "CALL BEFORE YOU DIG" SERVICE IN ORDER TO LOCATE UTILITIES PRIOR TO STARTING ANY EXCAVATION OR CONSTRUCTION.
- 3. CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES, ABOVE GROUND OR BELOW GROUND. 4. CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH APPROPRIATE UTILITIES PRIOR TO AND/OR DURING CONSTRUCTION.
- CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY BEFORE DIGGING NEAR WATER AND SANITARY SEWER LINES.
- NO EXTRA PAYMENT WILL BE MADE FOR REPAIRS TO DAMAGE OF EXISTING UTILITIES. THE CONTRACTOR WILL NOT BE PAID FOR DELAYS OR EXTRA EXPENSE CAUSED BY UTILITY FACILITIES, OBSTRUCTIONS, OR ANY
- OTHER ITEMS NOT REMOVED OR RELOCATED TO CLEAR CONSTRUCTION IN ADVANCE OF HIS WORK.

## GENERAL TRAFFIC CONTROL NOTES:

- 1. THE CONTRACTOR WILL BE RESPONSIBLE FOR SUBMITTING A TRAFFIC CONTROL PLAN FOR APPROVAL AND THE INSTALLATION OF ALL TRAFFIC CONTROL SIGNAGE, SIGNALS, AND/OR DEVICES IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL
- 2. THE CONTRACTOR WILL BE RESPONSIBLE FOR INITIAL INSTALLATION OF ALL TRAFFIC CONTROL SIGNAGE REQUIRED FOR
- 3. ROAD CLOSURES AND DETOURS, SHOULD THEY BE NEEDED, SHALL BE COORDINATED AND APPROVED WITH THE OWNER A MINIMUM
- OF TWO (2) CALENDAR WEEKS PRIOR TO PLANNED CLOSURE AND/OR DETOUR. 4. CERTIFIED FLAGGERS AND/OR ARROW BOARDS WILL BE REQUIRED TO MAINTAIN TRAFFIC CONTROL WHILE WORKING WITHIN THE LIMITS
- OF PUBLIC OR PRIVATE ROADWAYS. 5. CONTRACTOR SHALL MAINTAIN ONE (1) LANE OF TRAVEL OPEN AT ALL TIMES IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST ADDITION.

## **GENERAL CONSTRUCTION NOTES:**

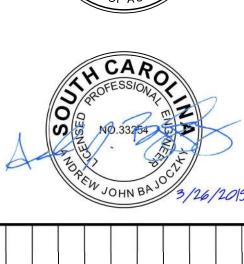
- 1. ALL STRUCTURES, TREES AND SHRUBS WHICH ARE WITHIN THE DESIGNATED CONSTRUCTION EASEMENT, BUT OUTSIDE THE LIMITS OF
- CONSTRUCTION SHALL NOT BE DISTURBED UNLESS OTHERWISE INSTRUCTED BY THE ENGINEER. UNSUITABLE AND SURPLUS EXCAVATION MATERIAL NOT REQUIRED FOR FILL SHALL BE DISPOSED OF OFFSITE.
- CONTRACTOR IS TO CLEAN ALL STORM WATER INLETS AND PIPE AT THE COMPLETION OF CONSTRUCTION TO REMOVE ANY SILT AND DEBRIS. THE CLEANING OF DROP INLETS, CULVERTS, AND PIPES (EXISTING AND PROPOSED) SHALL BE CONSIDERED INCIDENTAL TO
- THE PROJECT, NO ADDITIONAL PAYMENT WILL BE MADE THEREFOR. 4. ANY DAMAGE TO THE SIDE STREETS DUE TO CONSTRUCTION ACTIVITY SHALL BE REPAIRED IN AN EXPEDIENT MANNER AT THE CONTRACTOR'S EXPENSE.





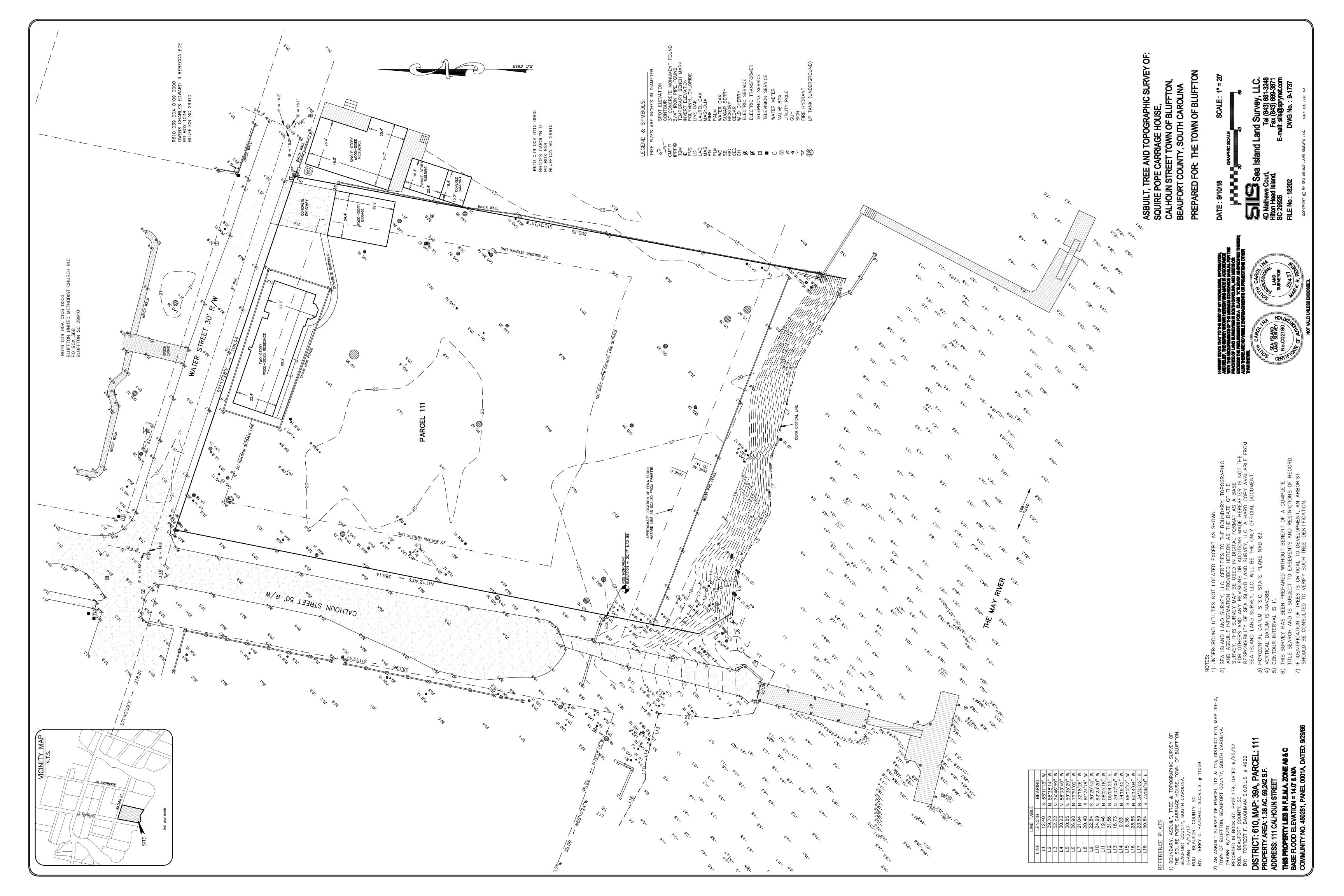


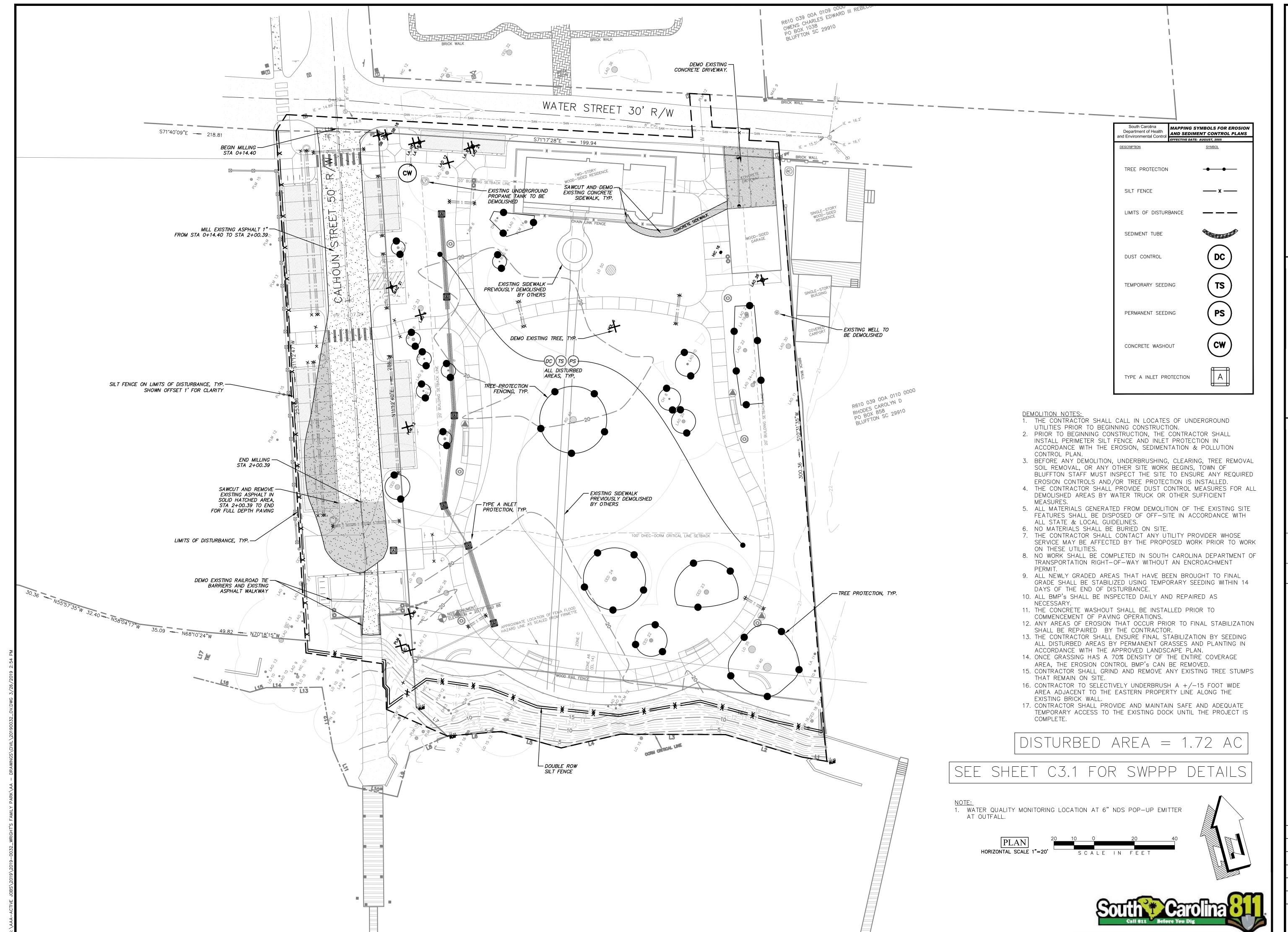




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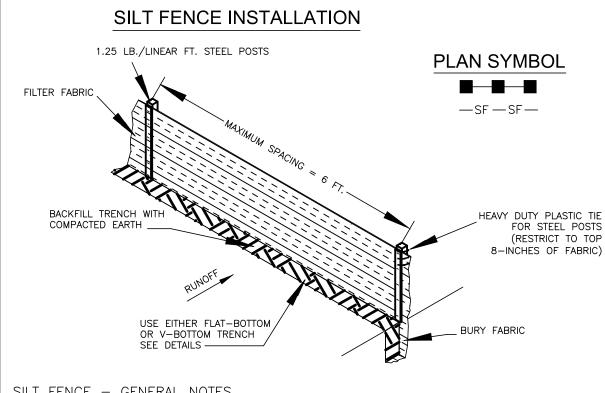


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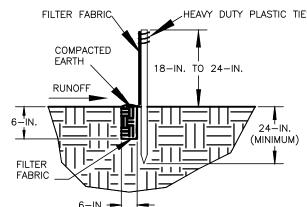
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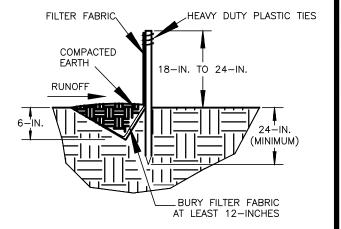


- SILT FENCE GENERAL NOTES 1. Do not place silt fence across channels or in other areas subject to concentrated flows. Silt fence should not be used as a velocity control BMP. Concentrated flows are any flows greater than 0.5 cfs.
- . Maximum sheet or overland flow path length to the silt fence shall be 100—feet
- . Maximum slope steepness (normal [perpendicular] to the fence line) shall be 2:1.
- . Silt fence joints, when necessary, shall be completed by one of the following options: - Wrap each fabric together at a support post with both ends fastened to the post, with a 1-foot
- Overlap silt fence by installing 3-feet passed the support post to which the new silt fence roll is attached. Attach old roll to new roll with heavy-duty plastic ties; or, - Overlap entire width of each silt fence roll from one support post to the next support post.
- Attach filter fabric to the steel posts using heavy—duty plastic ties that are evenly spaced within the top
- . Install the silt fence perpendicular to the direction of the stormwater flow and place the silt fence the proper distance from the toe of steep slopes to provide sediment storage and access for maintenance and cleanout. Install Silt Fence Checks (Tie-Backs) every 50-100 feet, dependent on slope, along silt fence that is installed with slope and where concentrated flows are expected or are documented along the proposed/installed silt

## FLAT-BOTTOM TRENCH DETAIL HEAVY DUTY PLASTIC TIES



## V-SHAPED TRENCH DETAIL



## South Carolina Department of Health and Environmental Contro

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ARD DRAWING NO.	SC-	03	Page	1	of
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#### FENCE - POST REQUIREMENTS the following physical characteristics. — Composed of a high strength steel with a minimum yield strength of

- Include a standard "T" section with a nominal face width of 1.38-inches and a nominal "T" length of 1.48—inches. - Weigh 1.25 pounds per foot ( $\pm$  8%)

Posts shall be equipped with projections to aid in fastening of filter fabric.

Steel posts may need to have a metal soil stabilization plate welded near the bottom when installed along steep slopes or installed in loose soils. The plate should have a minimum cross section of 17-square inches and be composed of 15 gauge steel, at a minimum. The metal soil stabilization plate should be

. Install posts to a minimum of 24-inches. A minimum height of 1- to 2inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.

Post spacing shall be at a maximum of 6—feet on center.

completely buried.

ILT FENCE - FABRIC REQUIREMENTS Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements: - Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or polyamides that are formed into a network such that the filaments or yarns retain dimensional stability

relative to each other: - Free of any treatment or coating which might adversely alter its physical properties after installation; - Free of any defects or flaws that significantly affect its physical and/or filtering properties; and, - Have a minimum width of 36-inches.

Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.

12-inches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.

Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.

. Filter Fabric shall be installed at a minimum of 24—inches above the ground.

SILT FENCE - INSPECTION & MAINTENANCE The key to functional silt fence is weekly inspections, routine maintenance, and

regular sediment removal

2. Regular inspections of silt fence shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces

3. Attention to sediment accumulations along the silt fence is extremely important. Accumulated sediment should be continually monitored and removed when

4. Remove accumulated sediment when it reaches 1/3 the height of the silt

5. Removed sediment shall be placed in stockpile storage areas or spread thinly Check for areas where stormwater runoff has eroded a channel beneath the silt fence, or where the fence has sagged or collapsed due to runoff overtopping the silt fence. Install checks/tie-backs and/or reinstall silt fence,

7. Check for tears within the silt fence, areas where silt fence has begun to decompose, and for any other circumstance that may render the silt fence ineffective. Removed damaged silt fence and reinstall new silt fence

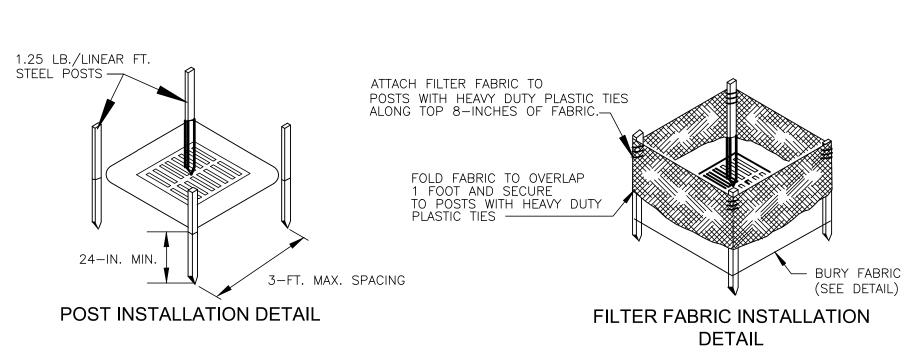
8. Silt fence should be removed within 30 days after final stabilization is achieved and once it is removed, the resulting disturbed area shall be permanently

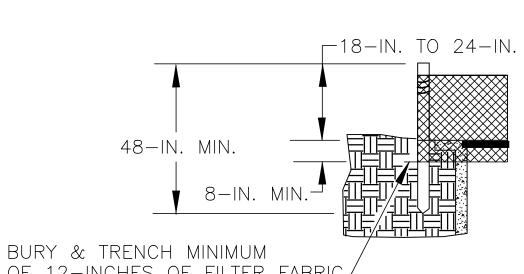
> South Carolina Department of Health and Environmental Contro

SILT FENCE STANDARD DRAWING NO. SC-03 PAGE 2 of

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DATE





FILTER FABRIC BURIAL DETAIL

OF 12-INCHES OF FILTER FABRIC-

PLAN SYMBOL



South Carolina Department of Health and Environmental Contro

Type A FILTER FABIC INLET PROTECTION tandard drawing nd. SC-07 PAGE 1 of 2NOT TO SCALE FEBRUARY 2014

DATE

TYPE A - FILTER FABRIC REQUIREMENTS . Silt fence must be composed of woven geotextile filter fabric that consists of the following requirements: Composed of fibers consisting of long chain synthetic polymers of at least 85% by weight of polyolefins, polyesters, or

polyamides that are formed into a network such that the

filaments or yarns retain dimensional stability relative to each - Free of any treatment or coating which might adversely alter its physical properties after installation;

Free of any defects or flaws that significantly affect its physical and/or filtering properties; and, Have a minimum width of 36-inches.

2. Use only fabric appearing on SC DOT's Qualified Products Listing (QPL), Approval Sheet #34, meeting the requirements of the most current edition of the SC DOT Standard Specifications for Highway Construction.

nches of the fabric should be placed within excavated trench and toed in when the trench is backfilled.

4. Filter Fabric shall be purchased in continuous rolls and cut to the length of the barrier to avoid joints.

5. Filter Fabric shall be installed at a minimum of 24—inches above the

TYPE A - POST REQUIREMENTS

. Silt Fence posts must be 48—inch long steel posts that meet, at a minimum, the following physical characteristics.

Composed of a high strength steel with a minimum yield strength of 50,000 psi. Include a standard "T" section with a nominal face width of 1.38—inches and a nominal "T" length of 1.48—inches.

- Weigh 1.25 pounds per foot (± 8%)

2. Posts shall be equipped with projections to aid in fastening of filter

3. Install posts to a minimum of 24-inches. A minimum height of 1- to 2— inches above the fabric shall be maintained, and a maximum height of 3 feet shall be maintained above the ground.

4. Post spacing shall be at a maximum of 3-feet on center.

TYPE A - INSPECTION & MAINTENANCE 1. The key to functional inlet protection is weekly inspections, routine maintenance, and regular sediment removal.

2. Regular inspections of inlet protection shall be conducted once every calendar week and, as recommended, within 24-hours after each rainfall even that produces 1/2—inch or more of precipitation.

3. Attention to sediment accumulations along the filter fabric is extremely important. Accumulated sediment should be continually monitored and removed when necessary.

4. Remove accumulated sediment when it reaches 1/3 the height of the filter fabric. When a sump is installed in front of the fabric, sediment should be removed when it fills approximately 1/3 the depth of the

5. Removed sediment shall be placed in stockpile storage areas or spread thinly across disturbed area. Stabilize the removed sediment

6. Check for areas where stormwater runoff has eroded a channel beneath the filter fabric, or where the fabric has sagged or collapsed due to runoff overtopping the inlet protection.

7. Check for tears within the filter fabric, areas where fabric has begun to decompose, and for any other circumstance that may render the inlet protection ineffective. Removed damaged fabric and reinstall new

8. Inlet protection structures should be removed after all the disturbed areas are permanently stabilized. Remove all construction material and sediment, and dispose of them properly. Grade the disturbed area to the elevation of the drop inlet structure crest. Stabilize all bare areas immediately.

filter fabric immediately.

## South Carolina Department of Health and Environmental Control

Type A

FILTER FABIC INLET PROTECTION

tandard drawing No. SC-07 PAGE 2 of 2

GENERAL NOTES FEBRUARY 2014
DATE

INSTALL INLET PROTECTION & PERFORM SITE DEMOLITION

INSTALL SILT FENCE & TREE PROTECTION FENCE MAINTENANCE OF EROSION CONTROL BMP's

PAVING

1. THE TIME AND PERIODS ABOVE ARE NOT EXACT OR READILY DETERMINABLE BUT IN ALL CASES SOIL EROSION AND SEDIMENT CONTROL STRUCTURES WILL BE INCORPORATED INTO THE CONSTRUCTION IN THE SEQUENCE AS SHOWN ABOVE AND/ OR AS DIRECTED BY TOWN OF HILTON HEAD ISLAND OR SCDHEC. 2. GRASSING WILL BE ACCEPTED WHEN A 95% COVER BY PERMANENT GRASSES IS

"I HAVE PLACED MY SIGNATURE AND SEAL ON THE DESIGN DOCUMENTS SUBMITTED SIGNIFYING THAT I ACCEPT RESPONSIBILITY FOR THE DESIGN OF THE SYSTEM. I CERTIFY TO THE BEST OF MY KNOWLEDGE AND BELIEF THAT THE DESIGN IS

STANDARD NOTES: 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 & TEMPORARY SEEDING AT THE END OF THE 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

2. 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 14 DAYS AFTER THE WORK HAS CEASED, EXCEPT AS NOTED A. WHERE STABILIZATION BY THE 14TH DAY IS PRECLUDED BY SNOW COVER OR FROZEN GROUND CONDITIONS. STABILIZATION MEASURES MUST BE INITIATED AS SOON AS

PRACTICABLE B. WHERE CONSTRUCTION ACTIVITY ON A PORTION OF THE SITE IS TEMPORARILY CEASED, & EARTH-DISTURBING ACTIVITIES WILL BE RESUMED WITHIN 14 DAYS, TEMPORARY

STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE 3. THE CONTRACTOR MUST TAKE NECESSARY ACTION TO MINIMIZE THE TRACKING OF MUD ONTO THE PAVED ROADWAY FROM THE CONSTRUCTION AREA & THE GENERATION OF DUST. THE CONTRACTOR

SHALL DAILY REMOVE MUD/SOIL FROM PAVEMENT, AS MAY BE REQUIRED. 4. 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 CONTRUCTION 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.

5. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS

OR OBTAIN APPROVAL FOR AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 & SCR100000. 6. LITTER, CONSTRUCTION DEBRIS, OILS, FUELS & BUILDING PRODUCTS WITH THE SIGNIFICANT POTENTIAL IMPACT (SUCH AS STOCK-PILES OF FRESHLY TREATED LUMBER) & CONSTRUCTION CHEMICALS THAT COULD BE EXPOSED TO STORM WATER MUST BE PREVENTED FROM BECOMING A POLLUTANT SOURCE IN STORM WATER DISCHARGES.

7. ALL SEDIMENT & 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.

8. INITIATE STABILIZATION MEASURES ON ANY EXPOSED STEEP SLOPE (3H:1V OR GREATER) WHERE LAND DISTURBING ACTIVITIES HAVE CEASED, AND WILL NOT RESUME FOR A PERIOD OF 7 CALENDAR DAYS. 9. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.

10. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM EQUIPMENT & VEHICLE WASHING, WHEEL WASH WATER, & OTHER WASH WATER. WASH WATERS MUST BE TREATED IN A SEDIMENT BASIN OR ALTERNATIVE CONTROL THAT PROVIDES EQUIVALENT OR BETTER TREATMENT PRIOR TO DISCHARGE. 11. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES & EXCAVATED AREAS.

THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMP's (SEDIMENT BASIN, FILTER BAG, ETC.) 12. THE FOLLOWING DISCHARGES FROM THE SITE ARE PROHIBITED: WASTEWATER FROM WASHOUT OF CONCRETE, UNLESS MANAGED BY AN APPROPRIATE CONTROL

WASTEWATER FROM WASHOUT & CLEANOUT OF STUCCO, PAINT, FROM RELEASE OILS, CURING COMPOUNDS & OTHER CONSTRUCTION MATERIALS · FUELS, OILS, OR OTHER POLLUTANTS USED IN VEHICLE & EQUIPMENT OPERATION & MAINTENANCE

SOAPS OR SOLVENTS USED IN VEHICLE & EQUIPMENT WASHING 13. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST BE CONDUCTED AT A MINIMUM OF AT LEAST ONCE EVERY CALENDAR WEEK & MUST BE CONDUCTED UNTIL FINAL STABILIZATION IS REACHED ON ALL AREAS OF THE CONSTRUCTION SITE.

14. IF EXISTING BMP'S NEED TO BE MODIFIED OR IF ADDITIONAL BMP'S ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE NEXT STORM IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP & ALTERNATIVE BMP's MUST BE IMPLEMENTED AS SOON A REASONABLY POSSIBLE.

15. 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.

16. 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.

17. IF CABLE, ELECTRIC, AND NATURAL GAS UTILITIES ARE INSTALLED, THE INSTALLATION OF THESE IS TO BE WITHIN THE PERMITTED LIMITS OF DISTURBANCE AND INSTALLATION OUTSIDE OF THESE AREAS WILL REQUIRE A MODIFICATION TO THE PERMIT. 18. INLET PROTECTION SHALL BE PROVIDED AT ALL EXISTING INLETS THAT RECEIVE FLOWS FROM THE DISTURBED

19. CONSTRUCTION ENTRANCES SHALL BE PROVIDED AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC ACCESSES A PAVED ROADWAY

## **GRASSING REQUIREMENTS**

1. SEEDING SCHEDULE: TEMPORARY SEEDING: APRIL 15 - AUGUST 31, BROWNTOP MILLET @ 40 LBS/ACRE. SEPTEMBER 1, - DECEMBER 15, RYE GRAIN @ 56 LBS/ACRE PERMANENT SEEDING: APRIL 1 - OCTOBER 15. A MIXTURE OF KENTUCKY 31 FESCUE @ 20 LBS/ACRE AND CREEPING RED FESQUE @ 20 LBS/ACRE. SEPTEMBER 1 TO OCTOBER 15, ADD A NURSE CROP OF ABRUZZI RYE @ 75 LBS/ACRE. OCTOBER 15 TO MARCH 30 SEED ABRUZZI RYE AT 100 LBS/ACRE.

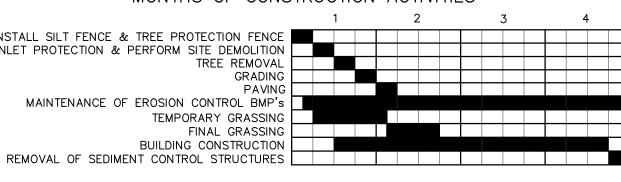
DOLOMITIC LIME WILL BE INCORPORATED AT THE RATE OF 3000 POUNDS/ACRE. FERTILIZER WILL BE A COMMERCIAL GRADE 10-10-10 INCORPORATED INTO THE SOIL AT A RATE OF 1500 POUNDS/ACRE.

3. FROM JUNE THROUGH AUGUST AND NOT LESS THAN 30 DAYS AFTER SEEDING, APPLY AMMONIUM NITRATE (NOT LESS THAN 20% NITRATE) AT A RATE EQUAL TO 60 POUNDS OF AVAILABLE

4. ALL SEEDED AREAS WILL BE MULCHED WITH HAY OR STRAW AT A RATE OF 1500 POUNDS/ACRE. 5. SEEDING AND MULCHING MAY BE ACCOMPLISHED IN A SINGLE HYDROSEEDING OPERATION. SEEDED AREAS WILL BE MULCHED WITH HAY, STRAW OR WOOD CELLULOSE AT A RATE OF 1500 LBS/ACRE.

1. MARCH 1-AUGUST 14 SHALL BE PEARL MILLET 50 LBS./ACRE COVERED WITH HEAVY MULCH. AUGUST 15-FEBRUARY 28 SHALL BE RYE GRASS 40 LBS./ACRE AND RYE GRAIN SIMULTANEOUSLY.

## MONTHS OF CONSTRUCTION ACTIVITIES



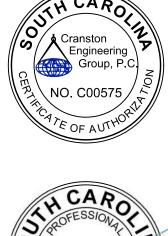
OBTAINED AND WEEDS ARE NOT DOMINANT. 3. GRASSING OF CONSTRUCTION AREAS WILL COMMENCE AT COMPLETION OF EACH PHASE OF CONSTRUCTION OR IN THE SEQUENCE AS SHOWN ABOVE. IN ANY CASE, GRASSING OF ANY CONSTRUCTION AREA WILL BEGIN AT THE EARLIEST POSSIBLE

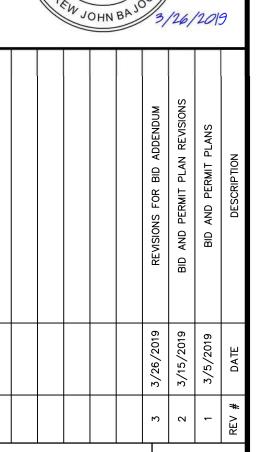
CONSISTENT WITH THE REQUIREMENTS OF TITLE 48, CHAPTER 14 OF THE CODE OF LAWS OF SC, 1976 AS AMENDED, PURSUANT TO REGULATION 72-300 ET SEQ. (IF APPLICABLE), AND IN ACCORDANCE WITH THE TERMS AND CONDITIONS OF SCR100000."



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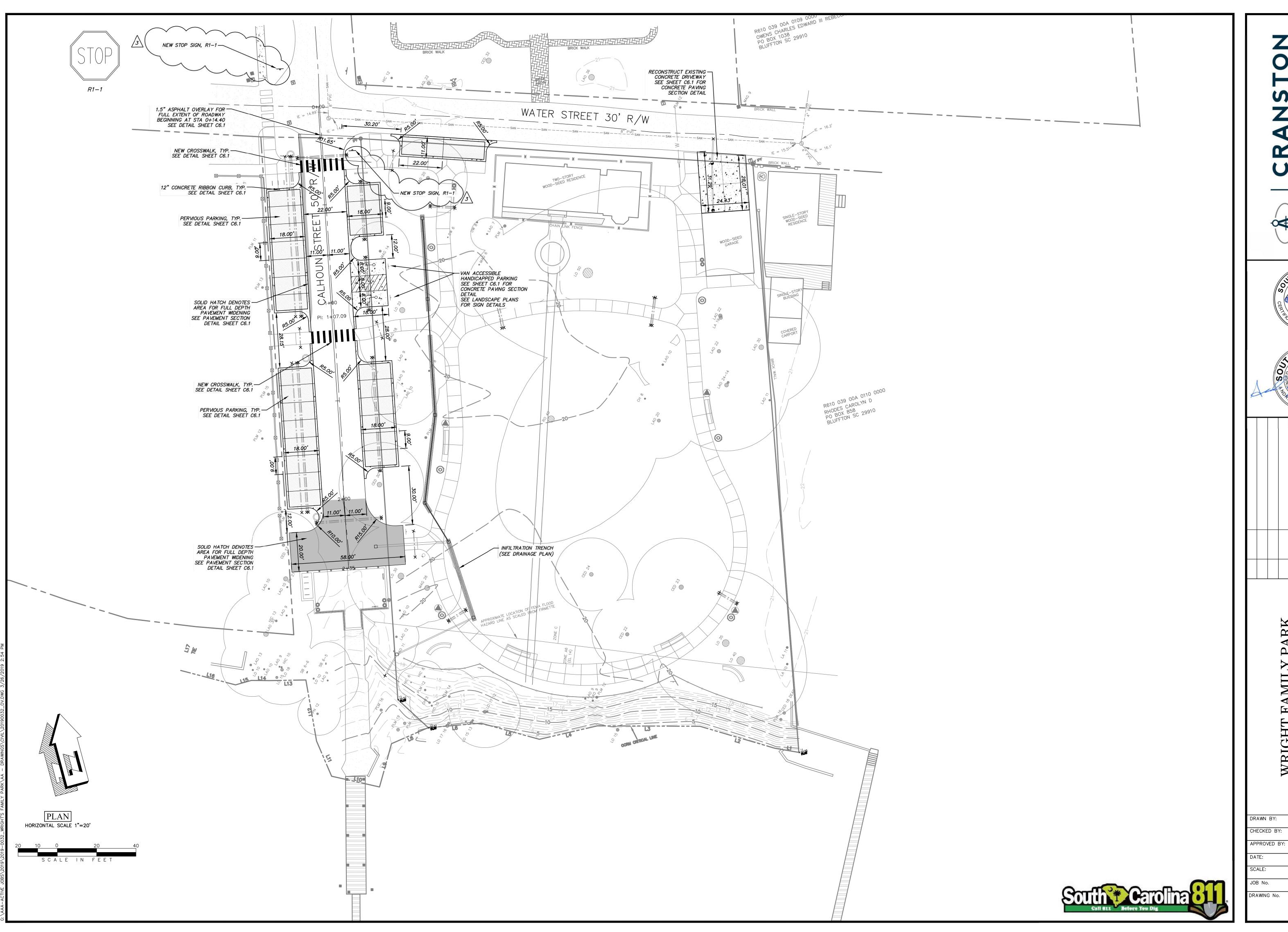


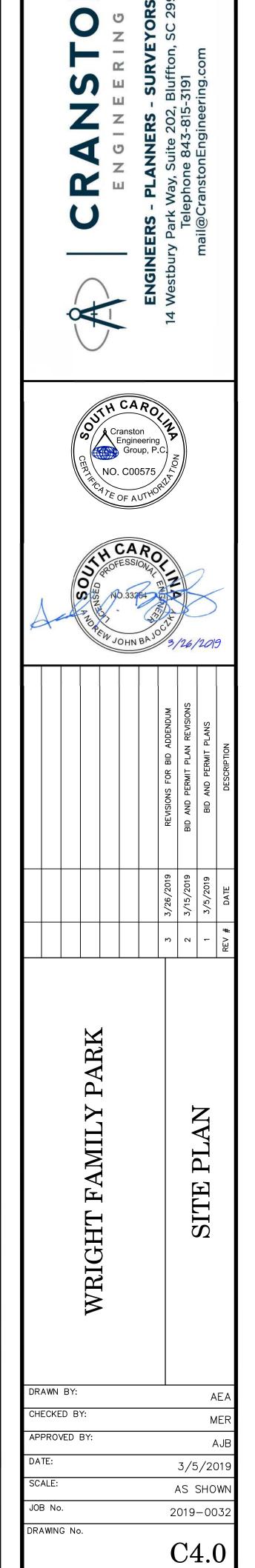
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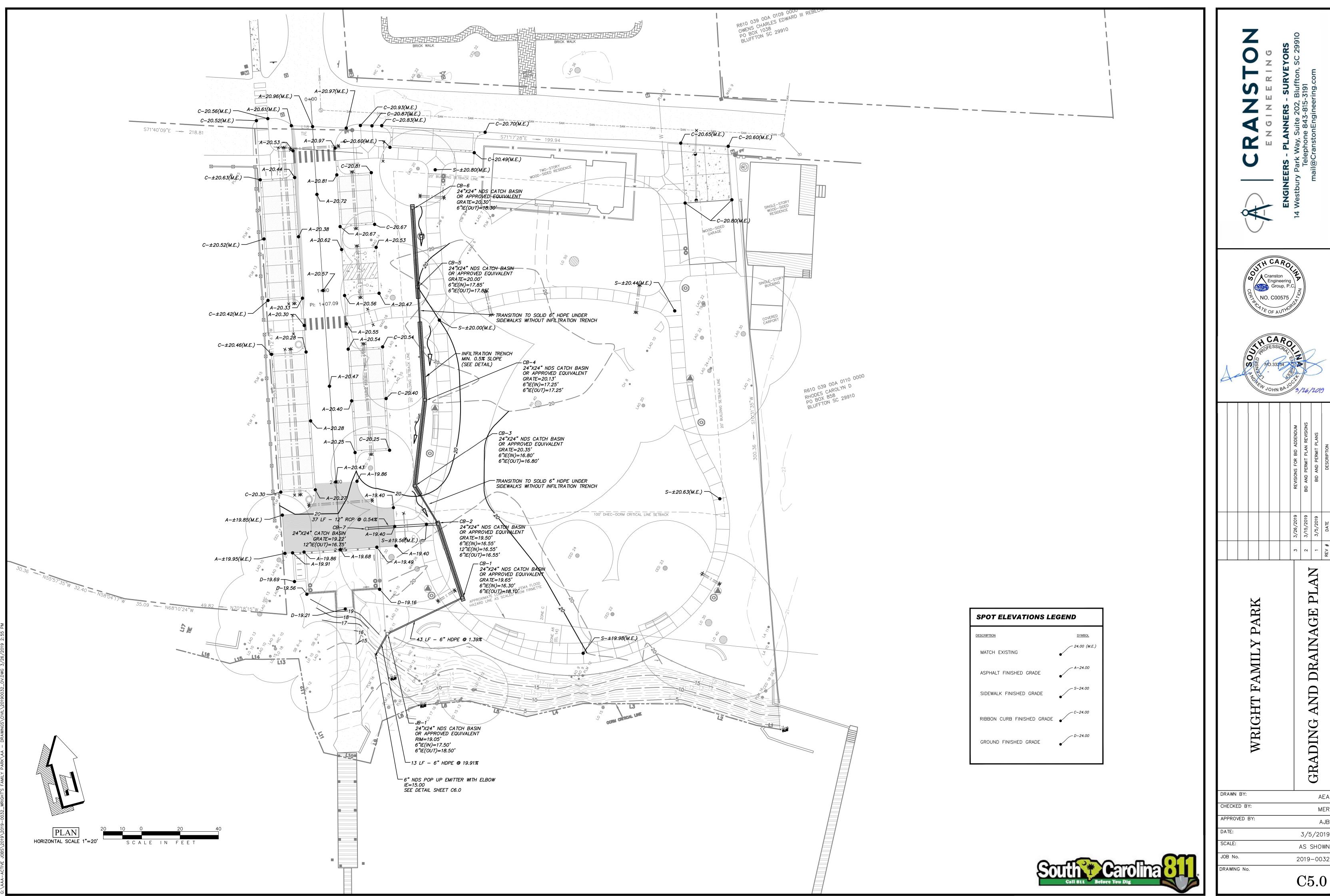
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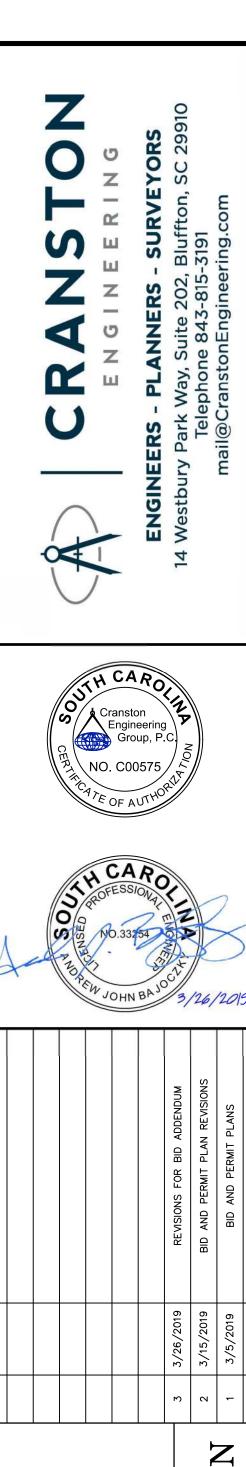
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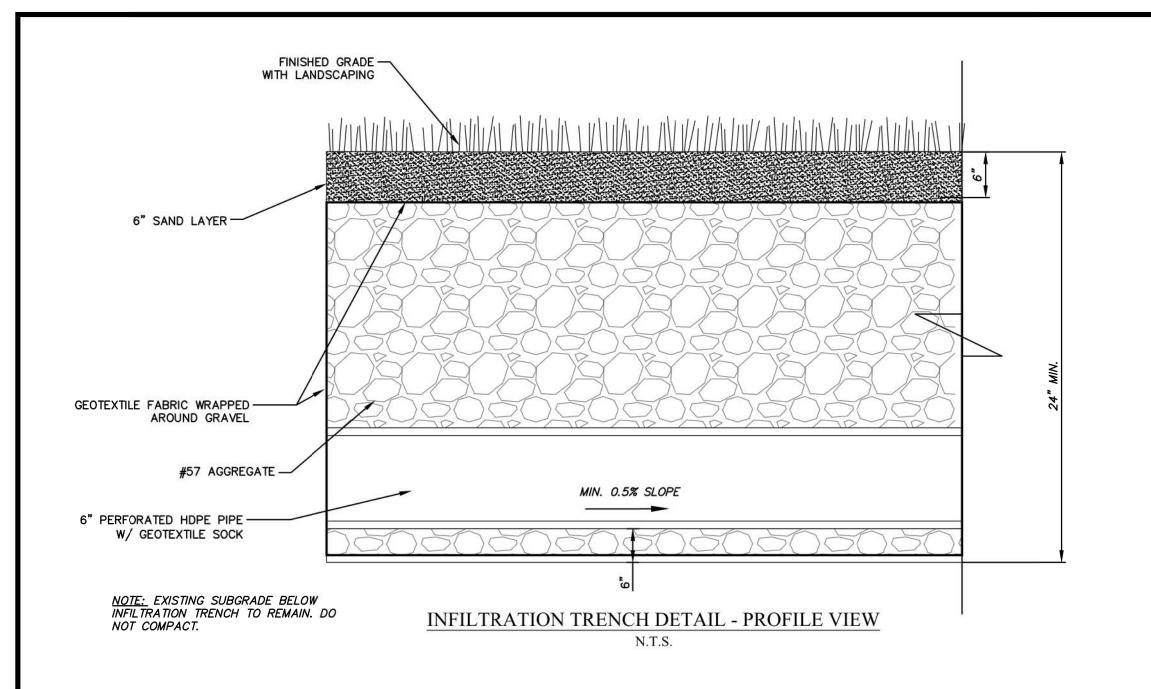


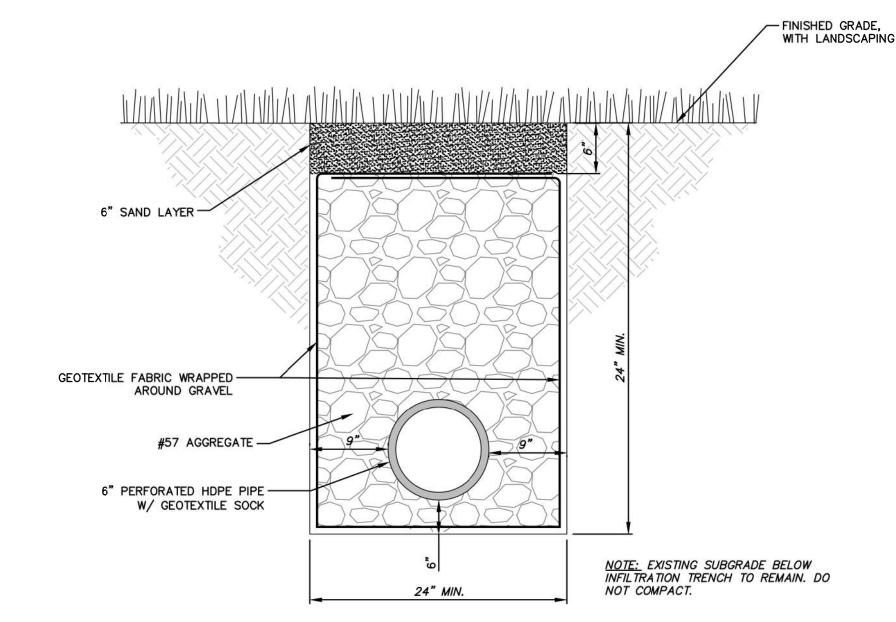






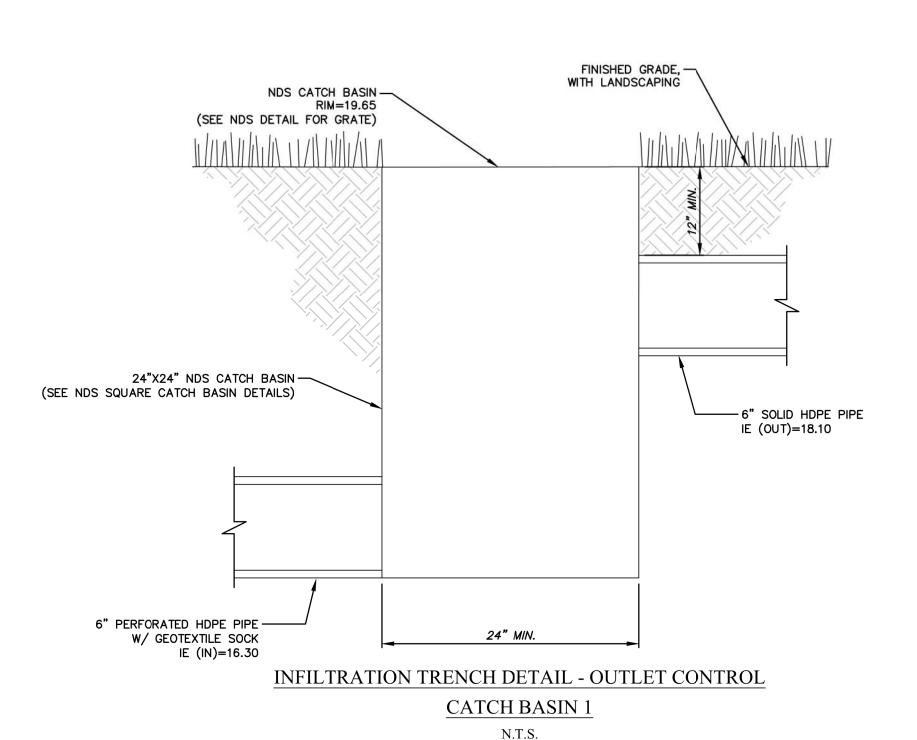
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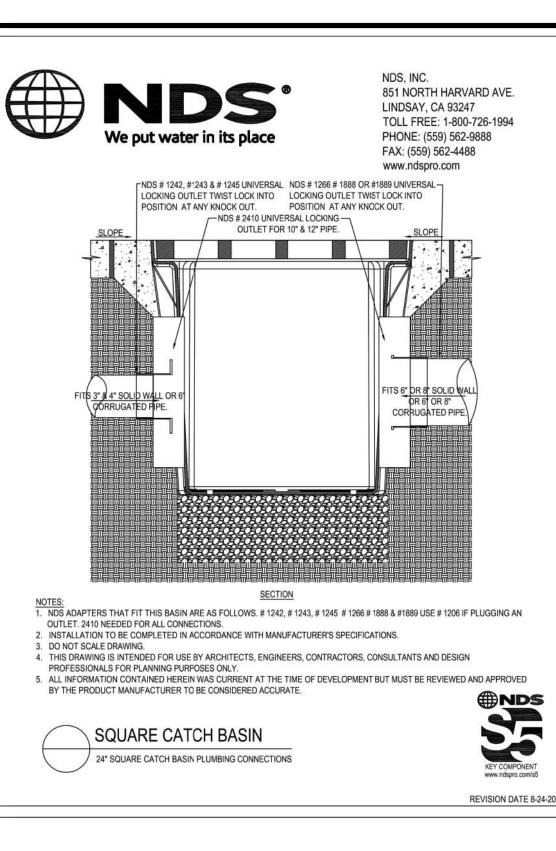


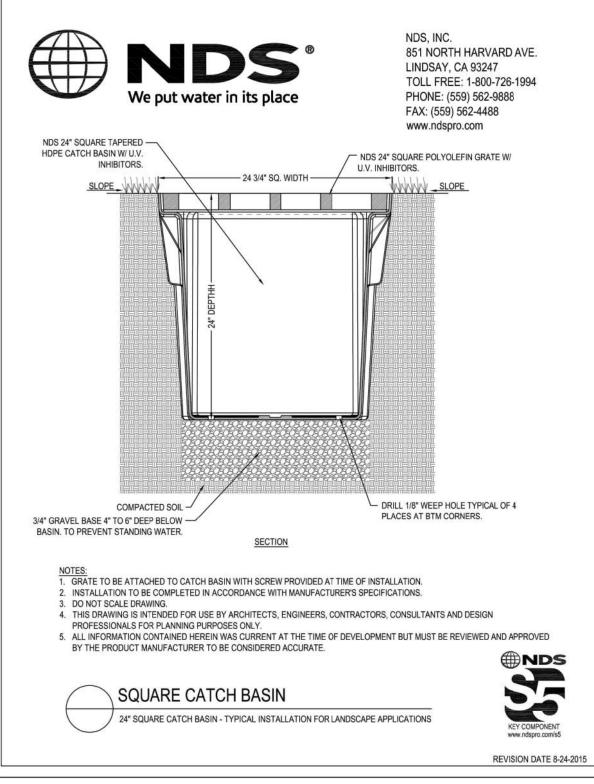


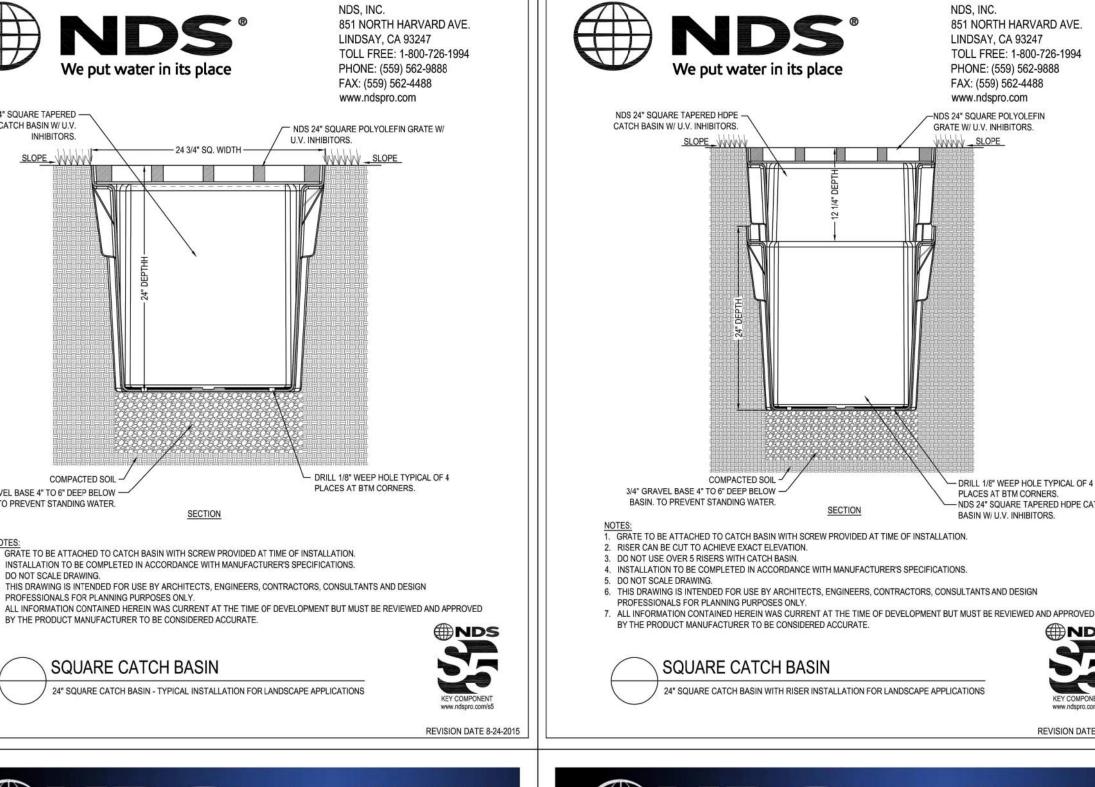
INFILTRATION TRENCH DETAIL - CROSS SECTION

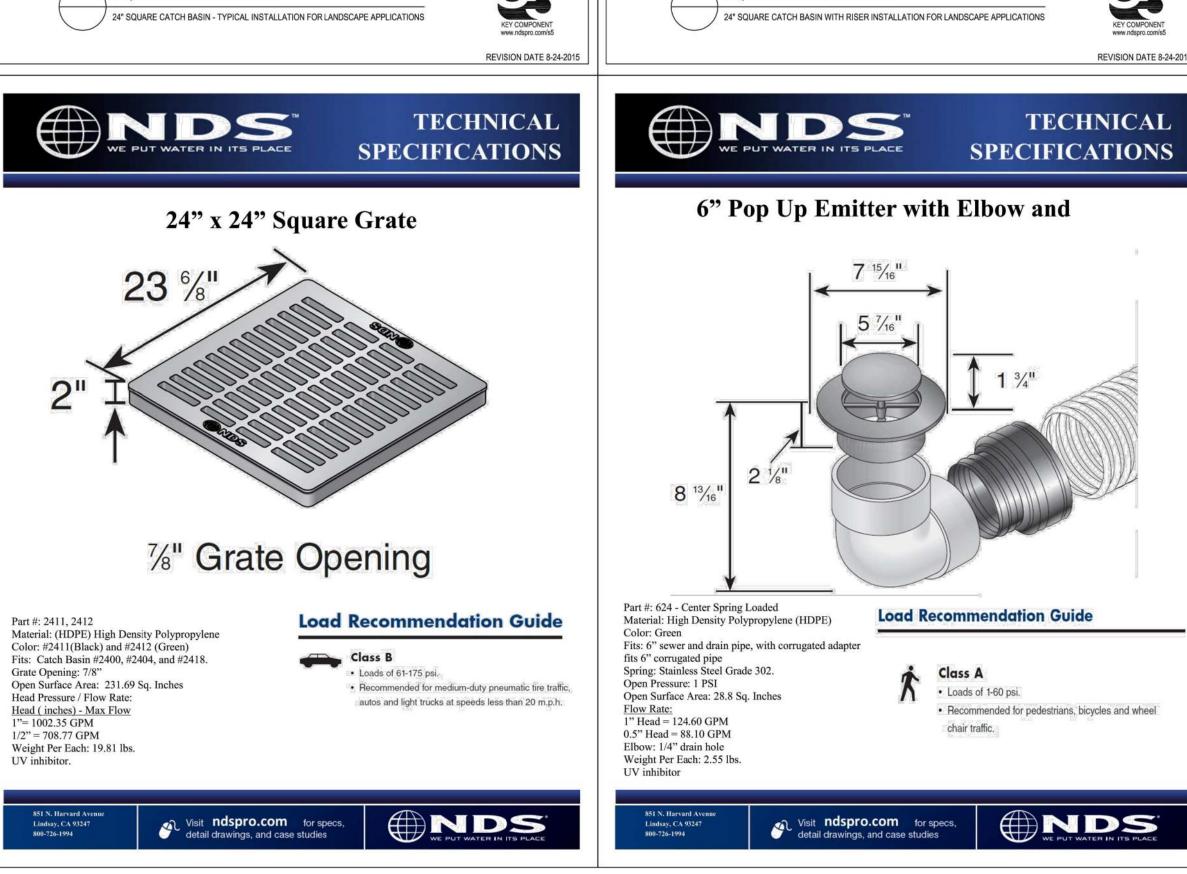
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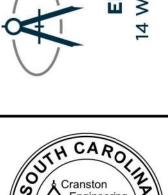
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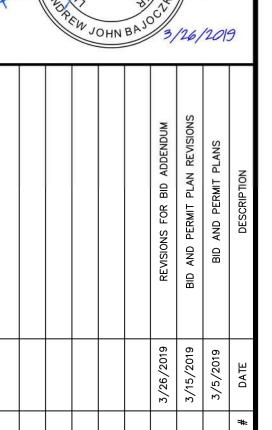
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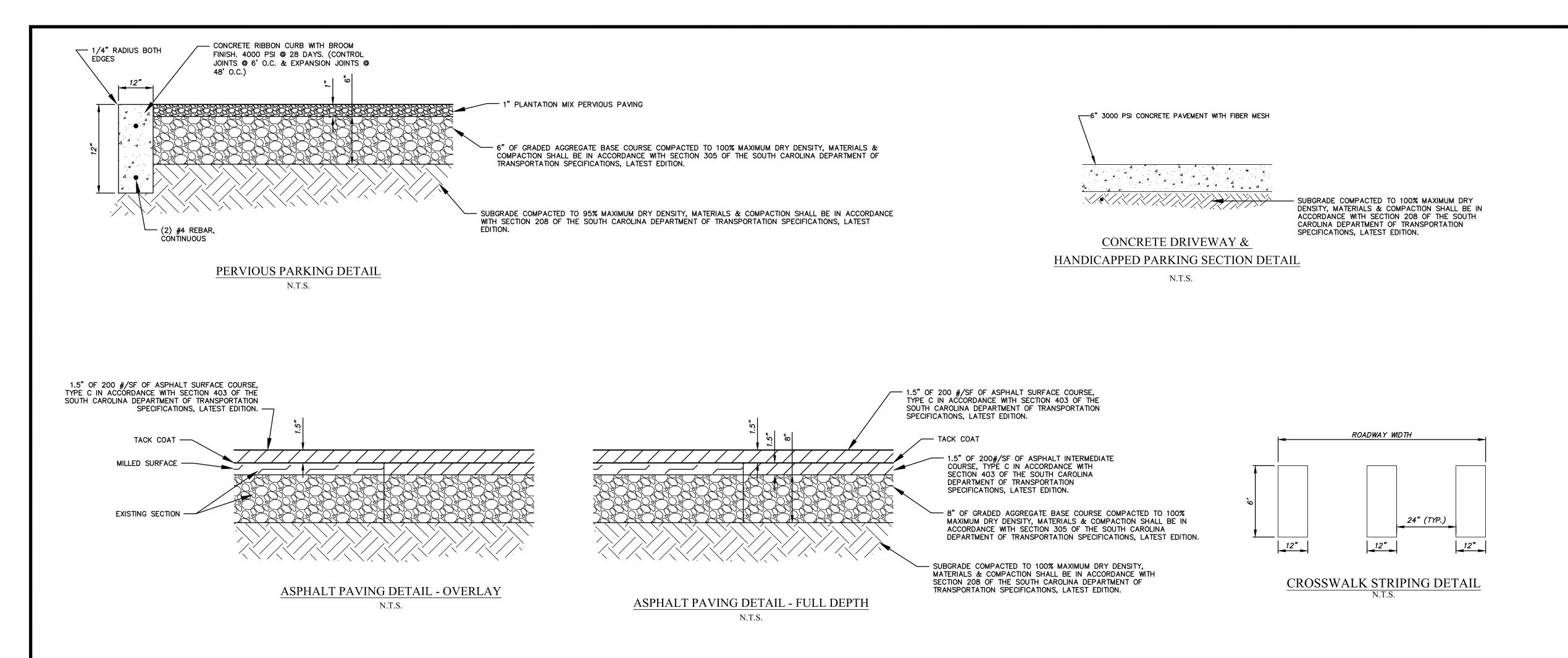


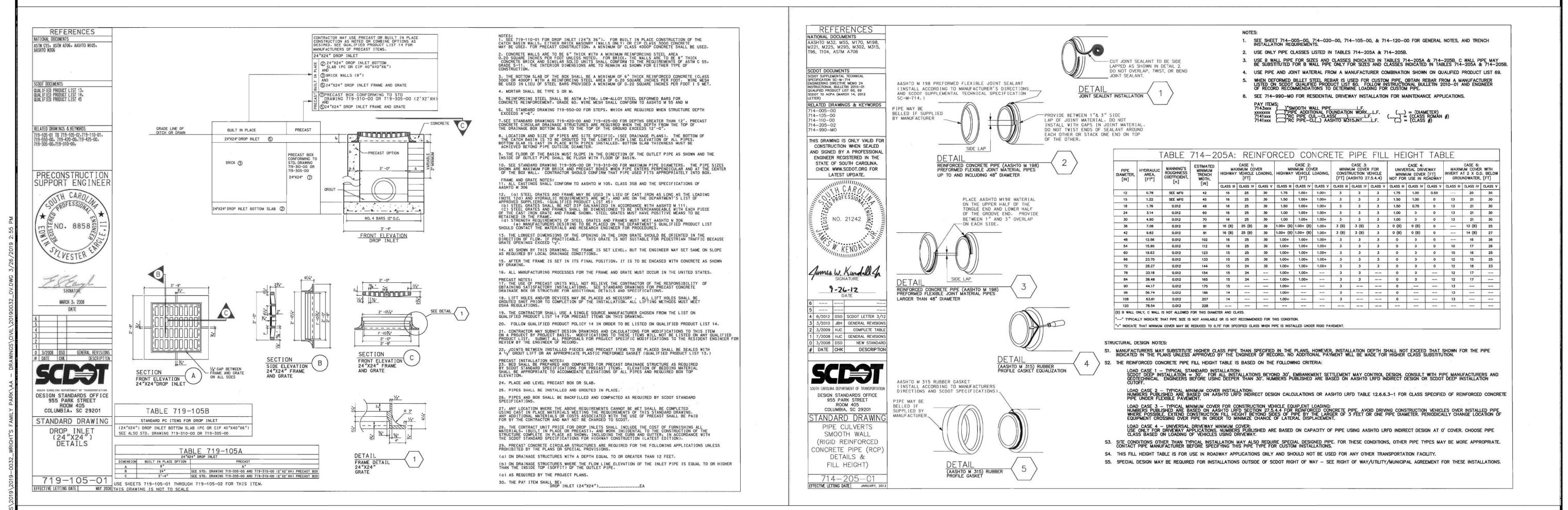
AGE & DRAINADETAILS WRIGHT

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