HORIZONTAL DATUM: NAD 83 SC STATE PLANE, INTERNATIONAL FOOT (SC83IF)

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

SITE ZONING:

ADJACENT SITE ZONING: R-1 and R-2

TAX MAP SEQUENCE NUMBER (TMS #): N/A - SCDOT RIGHT OF WAY

FEMA FLOOD MAP: 45019C0501K, IN COMMUNITY #450042 **EFFECTIVE 01/09/2021** FLOOD ZONE 'X', 'X-SHADED', AND 'AE' (ELEV. 10)

PROJECT AREAS: SITE AREA = 1.1 AC. **DISTURBED AREA = 0.9AC.**

MS4 PERMIT #: City of North Charleston #2020-82

NPDES COVERAGE #: SCR10Z6U2

CZC CERTIFICATION #: HP2-RT37-JDYNE

ADDITIONAL APPROVALS OR VARIANCES: SCDOT Encroachment; Pending R/W Acquisition

RAILROAD INVOLVEMENT

SCDOT STANDARD DETAILS								
DETAIL REFERENCE #	DETAIL NAME							
651-110-00	FLAT SHEET SIGN MOUNTING							
714-005-00	PIPE CULVERTS (PIPE TRENCH TYPICAL PREPARATION)							
714-105-00	PIPE CULVERTS RIGID PIPE COMPLETED TRENCH							
719-000-01, -02, -03, -04	DRAINAGE STRUCTURE GENERAL NOTES							
719-105-01	24" X 24" DROP INLET							
719-205-01	TRENCH DRAIN (4" HARDWARE)							
719-305-00	DRAINAGE SUBSTRUCTURE RECTANGULAR (PRECAST SOLID WALL BOX)							
720-105-01	CURB & GUTTER; CONCRETE							
720-150-00 & 720-155-00	CONCRETE SIDEWALK ADJACENT TO CURB							
720-405-00	DRIVEWAY WITH SIDEWALK ADJACENT TO CURB							
720-910-01 & -02	DETECTABLE WARNING SURFACE							
720-952-11	PARALLEL PEDESTRIAN RAMP							
720-929-02	STANDARD PEDESTRIAN RAMPS							
815-001-01	EROSION CONTROL - TYPE A INLET STRUCTURE FILTERS							
815-205-00	SEDIMENT TUBE DITCH APPLICATION							
815-605-00	SILT FENCE							
815-605-30	EROSION CONTROL - ROLLED PRODUCT TURF REINFORCEMENT							
804-305-03	OUTLET PROTECTION WITH NO DEFINED CHANNEL							

NOTE: THE CONTRACTOR SHOULD GO TO THE SCDOT WEBSITE AT WWW.SCDOT.ORG/BUSINESS/STANDARD-DRAWINGS.ASPX TO REFERENCE THE MOST CURRENT VERSION OF THE STANDARD DRAWINGS.

PROPOSED PLANS FOR

AZALEA DRIVE SIDEWALK

FROM:

INTERSECTION OF COSGROVE AVENUE TO EAST OF ELEGANS DRIVE / THE LOWCOUNTRY FOOD BANK



FOR: CHARLESTON COUNTY PUBLIC WORKS

> LOCATION: NORTH CHARLESTON



NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE

MATERIALS AND WORKMANSHIP ON THIS PROJECT

PLANS OR IN THE SPECIAL PROVISIONS, ALL

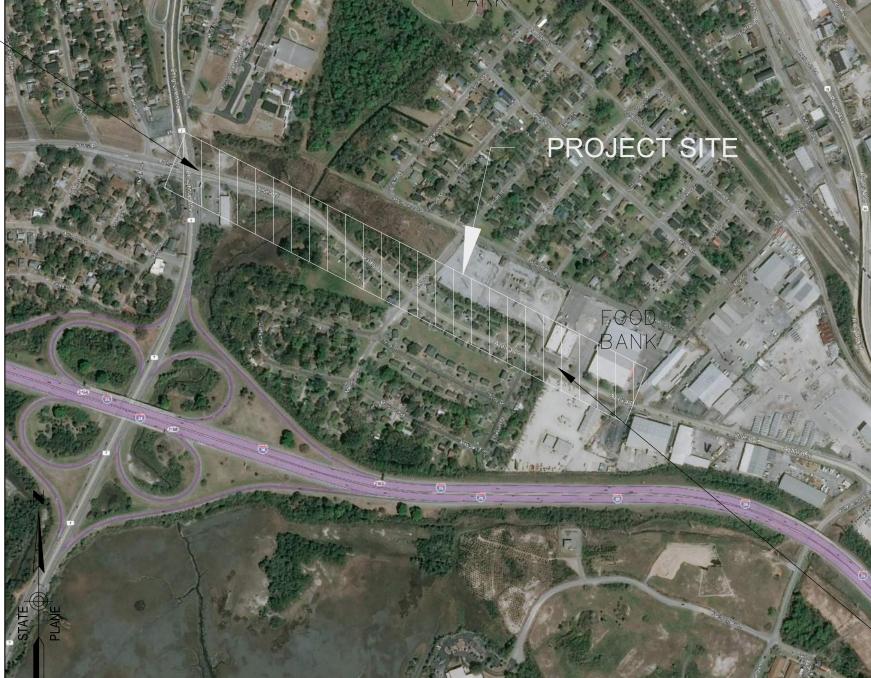
SHALL CONFORM TO THE SOUTH CAROLINA

DEPARTMENT OF TRANSPORTATION STANDARD

SPECIFICATIONS FOR HIGHWAY CONSTRUCTION

(2007 EDITION) AND THE STANDARD DRAWINGS FOR

ROAD CONSTRUCTION IN EFFECT AT THE TIME OF



LOCATION MAP SCALE: 1" = 500'

CURRENT ADT: 10,000

20 YEAR PROJECTION: 14,800 (@2%)

PERCENTAGE OF TRUCKS: 5%

Project Area = 1.1 Acres Approximate Location of Project Is:

Disturbed Area = 0.9 Acres

32° 50' 49.3" N Longitued 79° 58' 45.6" W

Hydraulic Design Reference for these plans is the:

2009

Edition of SCDOT's "Requirements for

Hydraulic Design Studies"

Design Reference for these plans is the:

2017

SCDOT "Roadway Design Manual"

TRAFFIC DATA

NPDES DATA

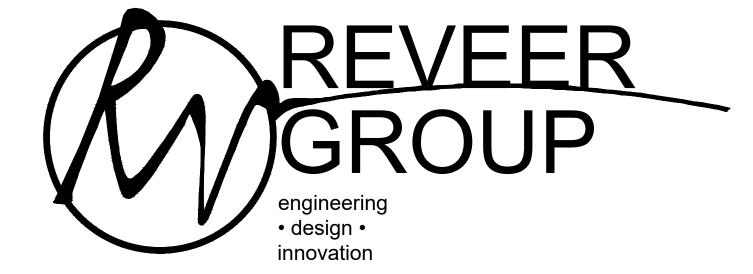
32° 50′ 38.9″ N Longitude 79° 58' 23.7" W

SHEET SHEET NO. DESCRIPTION SUBTOTALS TITLE AND INDEX SHEET IL1 SHEET LAYOUT SUMMARY OF ESTIMATED QUANTITIES 2 TYPICAL SECTIONS 3, 3A PROPERTY STRIP MAP 4A **ROW DATA TABLE** GENERAL NOTES REFERENCE DATA PLAN AND PROFILE SHEETS 11-27 **DETAILS CROSS SECTIONS** X1-X9

INDEX LAYOUT SHEETS

SUBMITTAL: ISSUED FOR CONSTRUCTION REVEER PROJECT #: 200102.05 DATE: 02/02/2021

Consulting Engineer Firm



CONTACT: 2971 W. MONTAGUE AVE., STE. 101 NORTH CHARLESTON, SC 29418 843.297.4103 www.reveergroup.com

PROJECT DESCRIPTION:

CHARLESTON COUNTY PLANS TO CONSTRUCT 2,100 LINEAR FEET OF CONCRETE SIDEWALK ON THE NORTH SIDE OF AZALEA DRIVE BETWEEN COSGROVE AVENUE AND THE LOWCOUNTRY FOOD BANK (JUST EAST OF ELEGANS DRIVE). ADDITIONAL WORK CONSISTS OF IMPROVEMENTS TO THE ADJACENT ROADSIDE DITCH, NEW DRIVEWAY APRONS, CROSSWALK AND HANDICAP RAMPS, AND TWO BUS STOP PADS.



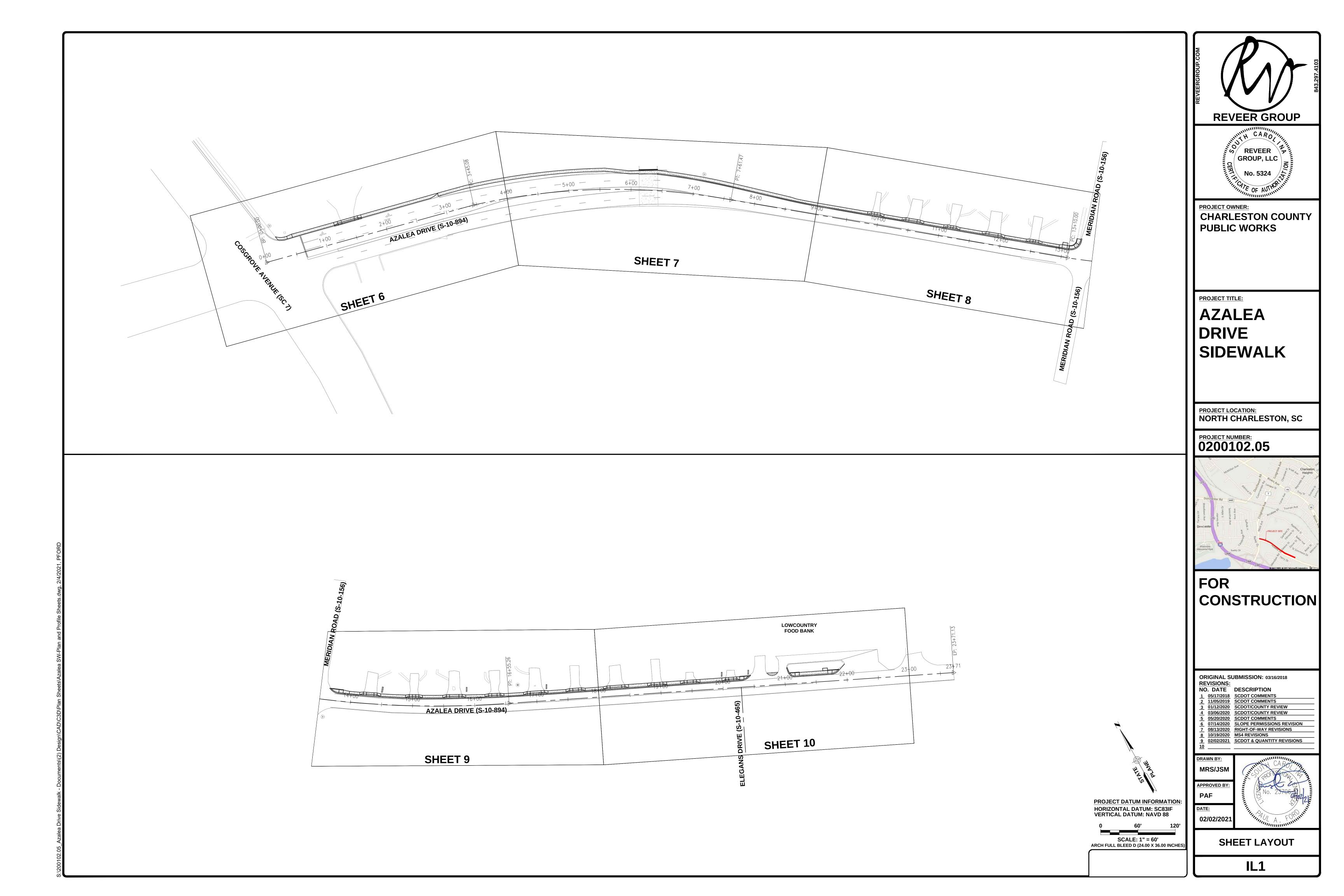
STA. 21+97

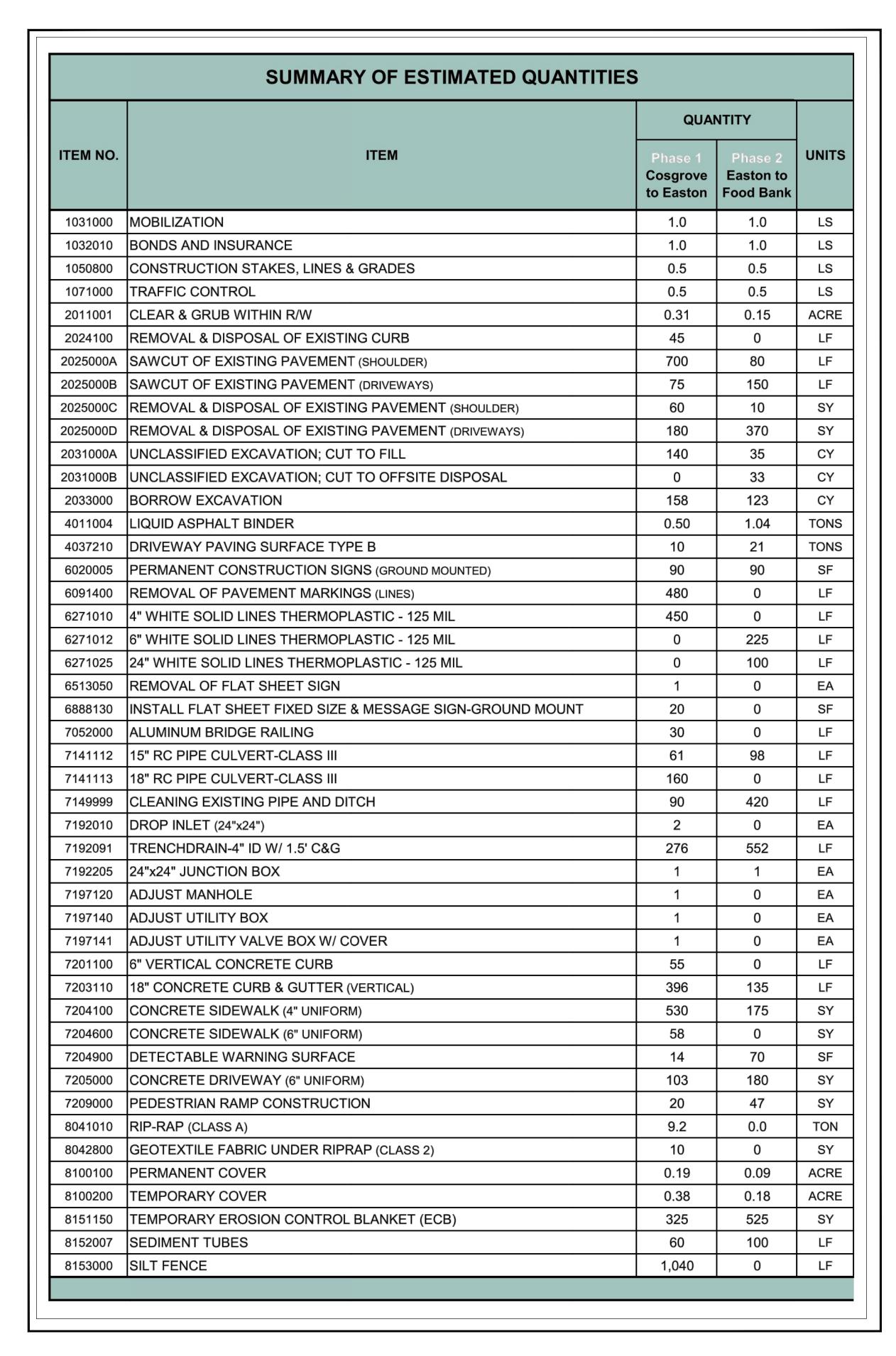
Engineer of Record





ESE DRAWINGS AND THE DESIGN THEREON AF









PROJECT OWNER:

CHARLESTON COUNTY

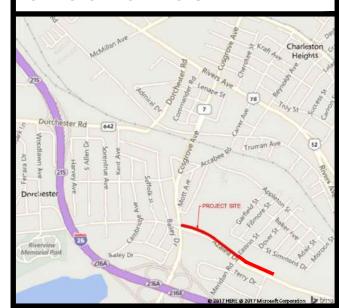
PUBLIC WORKS

PROJECT TITLE:

AZALEA DRIVE SIDEWALK

PROJECT LOCATION:
NORTH CHARLESTON, SC

PROJECT NUMBER: 0200102.05



FOR CONSTRUCTION

ORIGINAL SUBMISSION: 03/16/2018
REVISIONS:
NO. DATE DESCRIPTION
1 05/17/2018 SCDOT COMMENTS

 1
 05/17/2018
 SCDOT COMMENTS

 2
 11/05/2019
 SCDOT COMMENTS

 3
 01/12/2020
 SCDOT/COUNTY REVIEW

 4
 03/06/2020
 SCDOT/COUNTY REVIEW

 5
 05/20/2020
 SCDOT COMMENTS

6 07/14/2020 SLOPE PERMISSIONS REVISION
7 08/13/2020 RIGHT-OF-WAY REVISIONS
8 10/19/2020 MS4 REVISIONS
9 02/02/2021 SCDOT & QUANTITY REVISIONS

8 10/19/2020 MS4 REVISIONS 9 02/02/2021 SCDOT & QUANTITY

MRS/JSM

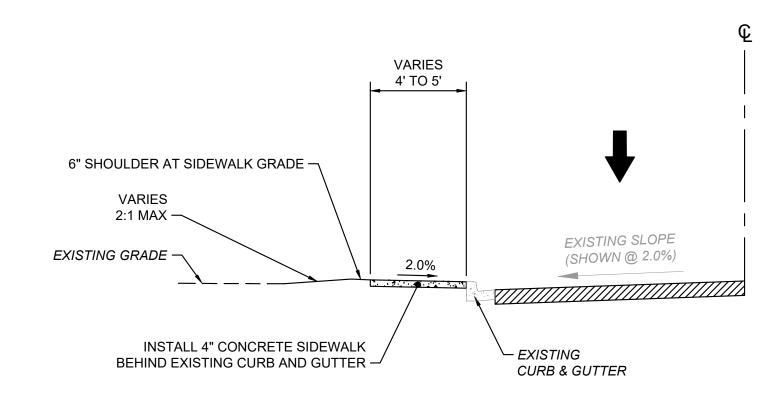
APPROVED BY:
PAF

DATE:

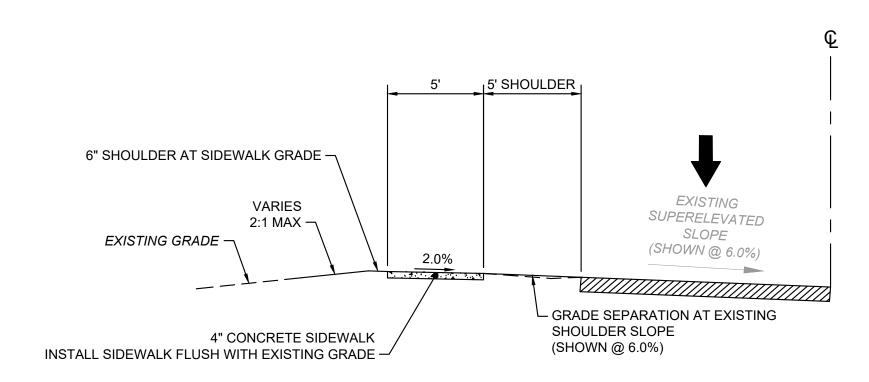
02/02/2021

SUMMARY OF ESTIMATED QUANTITIES

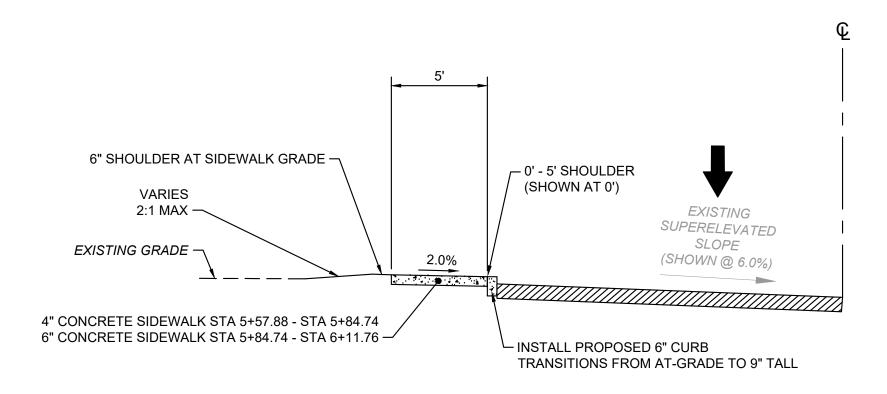
2



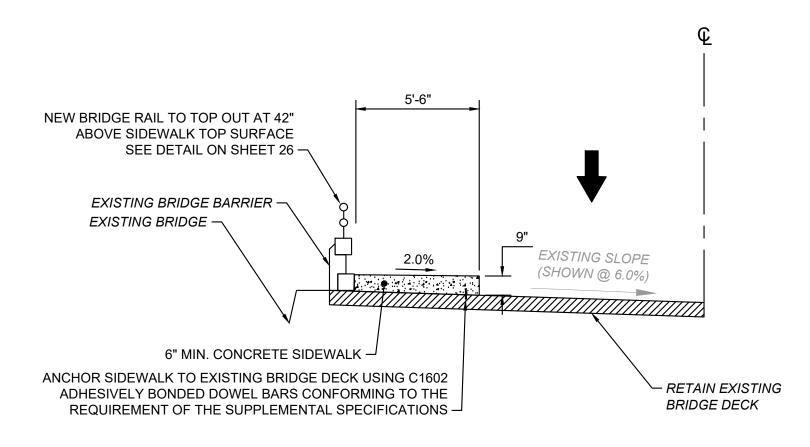
AZALEA DRIVE TYPICAL SECTION 1 STATION 0+24.35 TO STATION 2+99.53 N.T.S.



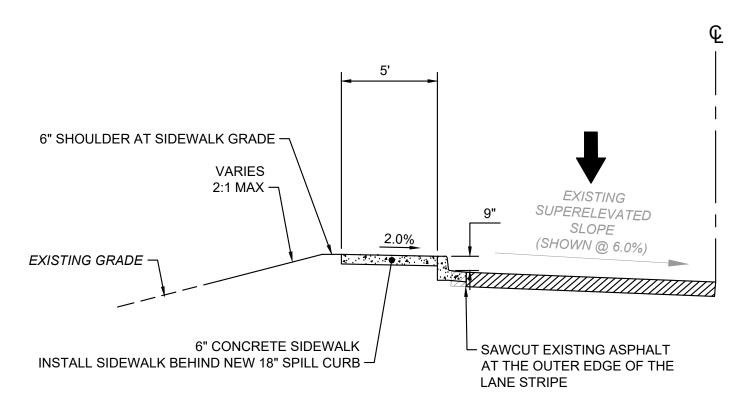
AZALEA DRIVE TYPICAL SECTION 2 STATION 3+39.51 TO STATION 5+57.88



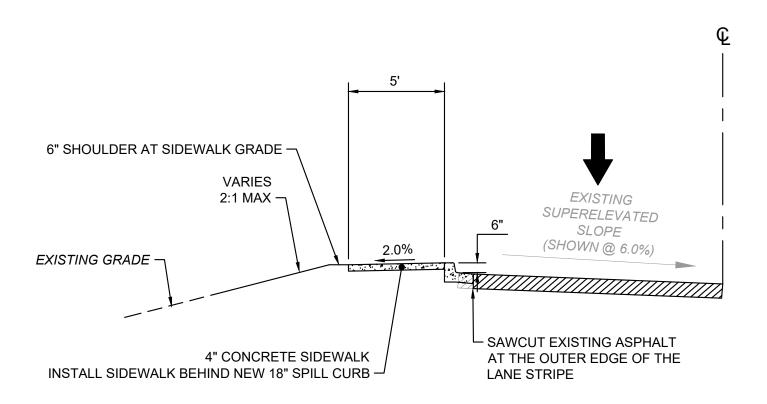
AZALEA DRIVE TYPICAL SECTION 3 STATION 5+57.88 TO STATION 6+11.76



AZALEA DRIVE TYPICAL SECTION 4 STATION 6+11.76 TO STATION 6+41.06 N.T.S.



AZALEA DRIVE TYPICAL SECTION 5 **STATION 6+41.06 TO STATION 6+71.06**



AZALEA DRIVE TYPICAL SECTION 6 **STATION 6+81.06 TO STATION 8+55.00**

- SIDEWALK CROSS SLOPE CAN RANGE FROM A MINIMUM 0.5% TO A MAXIMUM 2.0%.
- 2. FOR DIMENSIONS THAT VARY, REFER TO PLAN SHEETS 6 TO 10.
- 3. FOR SIDEWALK DETAILS REFER TO SCDOT DETAIL 720-150-00 ON SHEET 20. 4. FOR CURB AND GUTTER DETAILS REFER TO
- SCDOT DETAIL 720-105-01 ON SHEET 16. 5. FOR TYPICAL SECTIONS 7, 8, 9, AND 10; VARIOUS AREAS OF THE PROJECT WILL REQUIRE DITCH WORK ON THE FORESLOPE. FOR ANY DITCH WORK ON THE BACKSLOPE OF THE DITCH REFER TO THE PLAN SHEETS AND CROSS SECTION SHEETS OF THIS
- CONSTRUCTION PLAN SET. 6. FOR ROLLED EROSION CONTROL DETAILS REFER TO SHEET 14, SCDOT DETAIL 815-605-30.
- 7. INSTALL TRENCH DRAIN AND 6" PVC PIPE PER SCDOT DETAIL 719-205-01, SHEET 23. OUTFALL 6" PVC INTO LOCATION SPECIFIED ON PLANS.





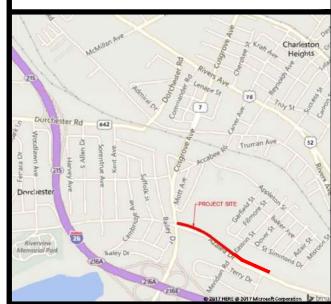
PROJECT OWNER: CHARLESTON COUNTY PUBLIC WORKS

PROJECT TITLE:

AZALEA DRIVE SIDEWALK

PROJECT LOCATION: NORTH CHARLESTON, SC

PROJECT NUMBER: 0200102.05



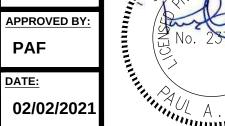
FOR CONSTRUCTION

ORIGINAL SUBMISSION: 03/16/2018 **REVISIONS:**

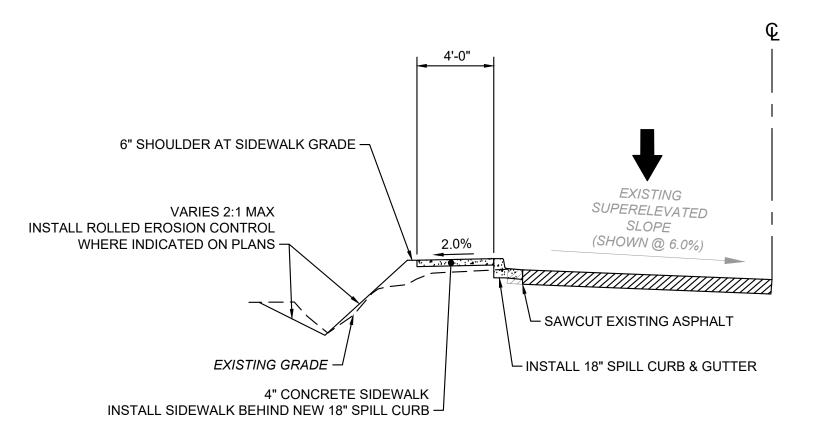
NO. DATE DESCRIPTION 1 05/17/2018 SCDOT COMMENTS SCDOT COMMENTS

3 01/12/2020 SCDOT/COUNTY REVIEW 4 03/06/2020 SCDOT/COUNTY REVIEW
5 05/20/2020 SCDOT COMMENTS
6 07/14/2020 SLOPE PERMISSIONS REVISION
7 08/13/2020 RIGHT-OF-WAY REVISIONS

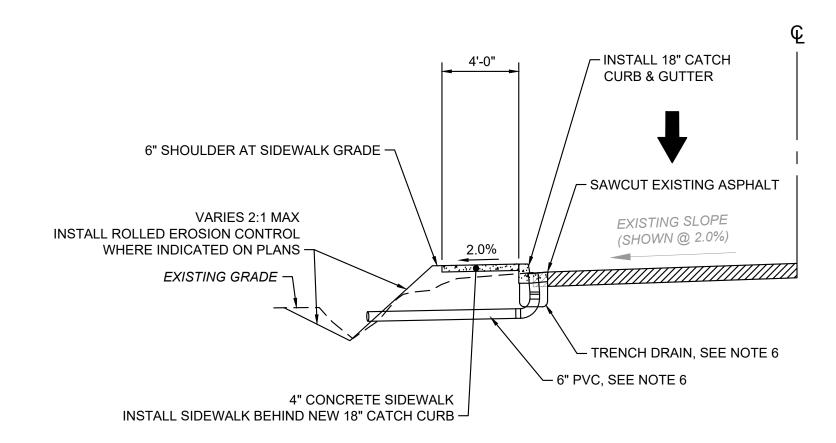
8 10/19/2020 MS4 REVISIONS 9 02/02/2021 SCDOT & QUANTITY REVISIONS



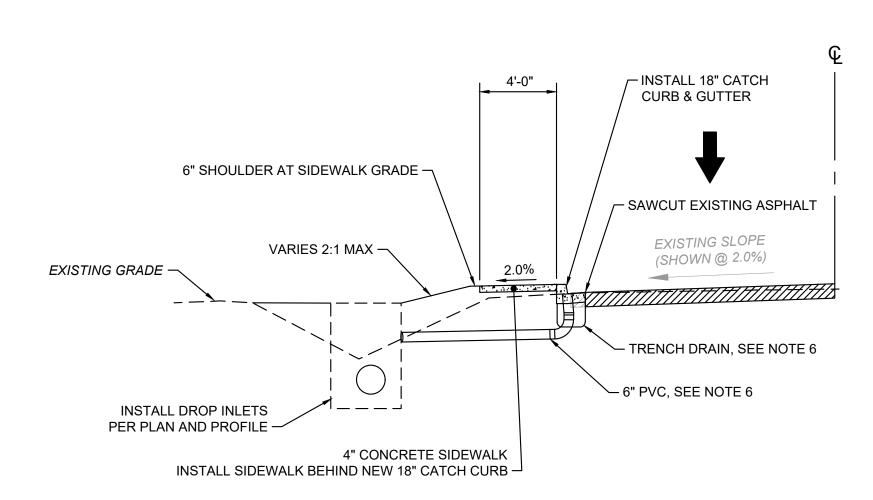
TYPICAL SECTIONS



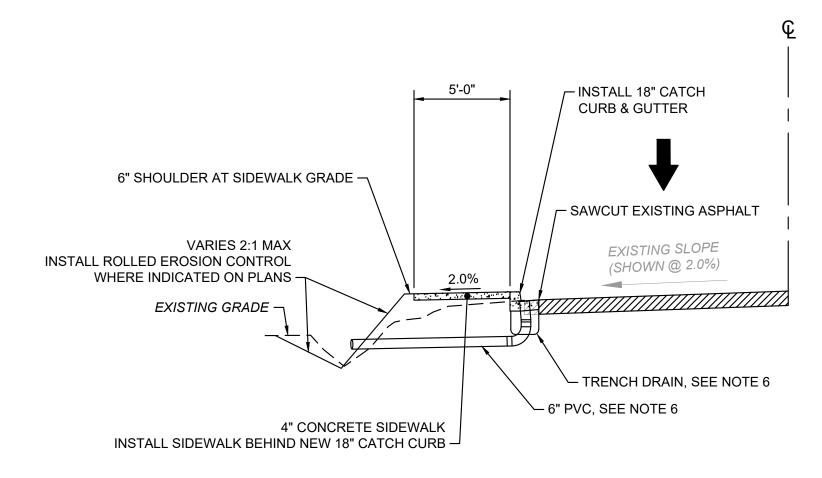
AZALEA DRIVE TYPICAL SECTION 7 STATION 8+65.00 TO STATION 9+21.91



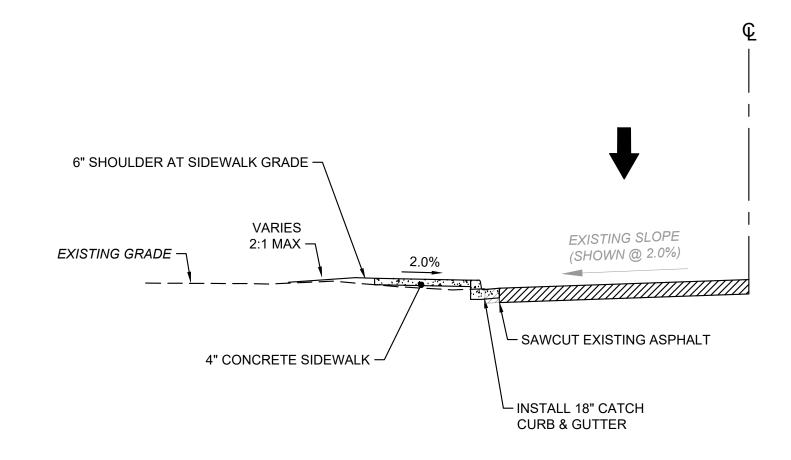
AZALEA DRIVE TYPICAL SECTION 8 STATION 9+31.91 TO STATION 9+29.96 AND STATION 11+29.96 TO STATION 18+07.94 (EXCLUDING DRIVEWAYS)



AZALEA DRIVE TYPICAL SECTION 9 STATION 9+70.00 TO STATION 11+29.96



AZALEA DRIVE TYPICAL SECTION 10 **STATION 18+48.61 TO STATION 19+99.00** (EXCLUDING DRIVEWAYS)



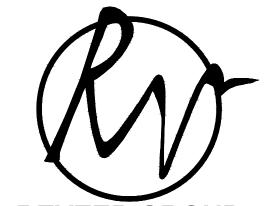
AZALEA DRIVE TYPICAL SECTION 11 STATION 21+23.90 TO STATION 21+69.58

NOTES:

- 1. SIDEWALK CROSS SLOPE CAN RANGE FROM A MINIMUM 0.5% TO A MAXIMUM 2.0%.
- 2. FOR DIMENSIONS THAT VARY, REFER TO
- PLAN SHEETS 6 TO 10. 3. FOR SIDEWALK DETAILS REFER TO SCDOT

SCDOT DETAIL 720-105-01 ON SHEET 16.

- DETAIL 720-150-00 ON SHEET 20. 4. FOR CURB AND GUTTER DETAILS REFER TO
- 5. FOR TYPICAL SECTIONS 7, 8, 9, AND 10; VARIOUS AREAS OF THE PROJECT WILL REQUIRE DITCH WORK ON THE FORESLOPE. FOR ANY DITCH WORK ON THE BACKSLOPE OF THE DITCH REFER TO THE PLAN SHEETS AND CROSS SECTION SHEETS OF THIS CONSTRUCTION PLAN SET.
- 6. FOR ROLLED EROSION CONTROL DETAILS REFER TO SHEET 14, SCDOT DETAIL 815-605-30.
- 7. INSTALL TRENCH DRAIN AND 6" PVC PIPE PER SCDOT DETAIL 719-205-01, SHEET 23. OUTFALL 6" PVC INTO LOCATION SPECIFIED ON PLANS.



REVEER GROUP



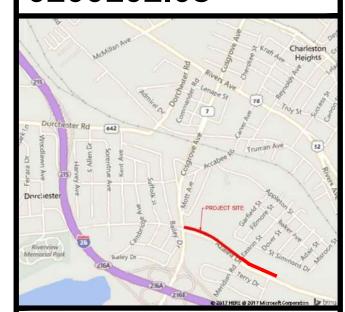
PROJECT OWNER: CHARLESTON COUNTY PUBLIC WORKS

PROJECT TITLE:

AZALEA DRIVE SIDEWALK

PROJECT LOCATION: NORTH CHARLESTON, SC

PROJECT NUMBER: 0200102.05



FOR CONSTRUCTION

ORIGINAL SUBMISSION: 03/16/2018 **REVISIONS:**

NO. DATE DESCRIPTION

1 05/17/2018 SCDOT COMMENTS SCDOT COMMENTS

3 01/12/2020 SCDOT/COUNTY REVIEW 4 03/06/2020 SCDOT/COUNTY REVIEW

5 05/20/2020 SCDOT COMMENTS 6 07/14/2020 SLOPE PERMISSIONS REVISION 7 08/13/2020 RIGHT-OF-WAY REVISIONS

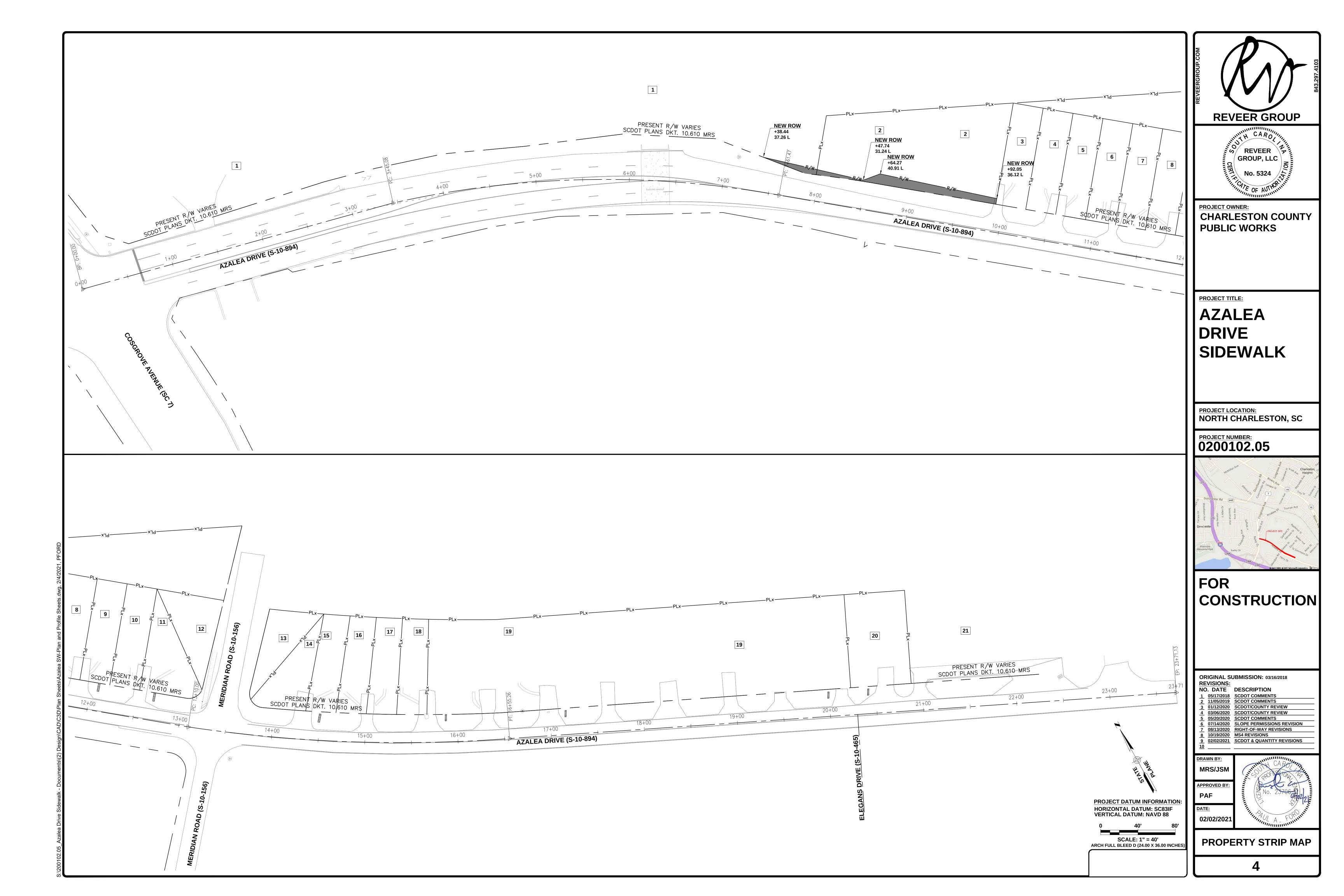
8 10/19/2020 MS4 REVISIONS

9 02/02/2021 SCDOT & QUANTITY REVISIONS

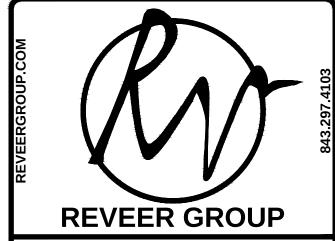
02/02/2021

TYPICAL SECTIONS

3A



									RIGH	T-OF-WAY DAT	ГА					
	TAX MAP REFERENCE	PROPERTY OWNER	TOTAL TRACT		OBTAIN (ACRES)			DEMAINIDED DEMAINIDED DIGHT	-	TYPE OF	OUTFALL DITCH SLOPE	DRAINAGE	EROSION CONTROL	ENTRANCE CONSTRUCTION		
TRACT NO.			ACRES	OUTFALL DITCH ACRES	LEFT	RIGHT	TOTAL	LEFT ACRES	REMAINDER REMAINDER RIGHT LEFT ACRES ACRES	DATE ACQUIRED	INSTRUMENT	PERMISSION (YES)	STRUCTURE PERMISSION (YES	PERMISSION (YES)	PERMISSION (YES)	REMARKS
1	469-13-00-143	DW OPP FUND LLC	6.50		0.005		0.005	6.495					NO			SLOPE PERMISSION DENIED
2	469-13-00-134	DW OPP FUND LLC	0.39		0.031		0.031	0.359					NO			SLOPE PERMISSION DENIED
3	469-13-00-144	US VET CORPS RESOURCES	0.08													
4	469-13-00-145	US VET CORPS RESOURCES	0.08													
5	469-13-00-146	KYLE FRANKLIN	0.08													
6	469-13-00-147	US VET CORPS RESOURCES	0.08													
7	469-13-00-148	JAMES JONES	0.08													
8	469-13-00-149	JAMES JONES	0.08													
9	469-13-00-150	26 LIME ST LLC	0.08													
10	469-13-00-151	26 LIME ST LLC	0.08													
11	469-13-00-152	26 LIME ST LLC	0.08													
12	469-13-00-153	26 LIME ST LLC	0.08													
13	469-13-00-154	BECKRIDGE HOLDINGS LLC	0.07													
14	469-13-00-155	WATSON ACQUISITIONS LLC	0.07													
15	469-13-00-156	PATRICIA A. COHEN	0.07													
16	469-13-00-157	PATRICIA A. COHEN	0.07													
17	469-13-00-158	ROBERT STONE LLC	0.07													
18	469-13-00-159	ROBERT STONE LLC	0.07													
19	469-13-00-004	SANDERS LOWE V LLC	7.20													
20	469-13-00-116	SOUTH CAROLINA ELECTRIC	0.16													
21	469-13-00-140	LOWCOUNTRY FOOD BANK	5.30													



GROUP, LLC

PROJECT OWNER: CHARLESTON COUNTY PUBLIC WORKS

PROJECT TITLE:

AZALEA DRIVE SIDEWALK

PROJECT LOCATION:
NORTH CHARLESTON, SC

PROJECT NUMBER: 0200102.05



FOR CONSTRUCTION

ORIGINAL SUBMISSION: 03/16/2018 REVISIONS:
NO. DATE DESCRIPTION

9 02/02/2021 SCDOT & QUANTITY REVISIONS

02/02/2021

ROW DATA TABLE

4A

GENERAL CONSTRUCTION NOTES:

- 1. ELEVATION DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
- 2. HORIZONTAL DATUM: SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM OF 1983 BASED ON INTERNATIONAL FEET (SC83IF)
- 3. HORIZONTAL AND VERTICAL SURVEY PERFORMED BY CORNERSTONE SURVEYING & ENGINEERING, INC.
- 4. THE CONTRACT DOCUMENTS FOR THIS PROJECT INCLUDE THE PLANS AND ASSOCIATED TECHNICAL SPECIFICATIONS. THE CONTRACTOR SHALL USE BOTH THE PLANS AND THE SPECIFICATIONS IN ORDER TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE OWNER'S REQUIREMENTS. IF THERE IS A CONFLICT BETWEEN DRAWINGS AND TECHNICAL SPECIFICATIONS, THE TECHNICAL SPECIFICATIONS SHALL GOVERN. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO UNDERSTAND THE EXISTING CONDITIONS AND WORK ENVIRONMENT.
- 5. THE CONTRACTOR MUST PERFORM ALL WORK IN ACCORDANCE WITH THE SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION (SCDOT) STANDARD DRAWINGS (LATEST EDITION), SCDOT STANDARD SPECIFICATIONS (LATEST EDITION), SCDOT SUPPLEMENTAL SPECIFICATIONS, SCDOT SPECIAL PROVISIONS, AND THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES MUTCD (2009 EDITION).
- 6. THE CONTRACTOR SHALL PROVIDE A DETAILED TRAFFIC CONTROL PLAN TO THE COUNTY AND SCDOT FOR APPROVAL BEFORE STARTING ANY WORK. CONTRACTOR SHALL FURNISH INSTALL, AND MAINTAIN ALL NECESSARY PROVISIONS FOR TRAFFIC CONTROL FOR THE DURATION OF THE PROJECT. LUMP SUM COST FOR TRAFFIC CONTROL SHALL INCLUDE ALL WORK AS DIRECTED ABOVE AND SHALL INCLUDE TEMPORARY CONSTRUCTION SIGNS, BARRICADES, DRUMS, CONES, LIGHTS, AND OTHER ITEMS AS REQUIRED TO COMPLETE THIS WORK.
- 7. CONTRACTOR SHALL REFER TO SCDOT STD. DWG. 605-010-02 FOR THE PLACEMENT OF PERMANENT CONSTRUCTION SIGNS.
- 8. CONTRACTOR SHALL PROCURE AND CONFORM TO ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS.
- 9. CONTRACTOR SHALL PROVIDE ALL BONDS AND INSURANCE REQUIRED BY PUBLIC AND/OR PRIVATE AGENCIES HAVING JURISDICTION.
- 10. THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THE PROJECT IN ACCORDANCE WITH THE APPROVED CONSTRUCTION PLANS AND SPECIFICATIONS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET APPLICABLE AGENCY REQUIREMENTS AND PROVIDE A COMPLETE PROJECT.
- 11. THE GENERAL CONTRACTOR SHALL REVIEW AND STAMP APPROVED ANY AND ALL SHOP DRAWINGS AND SUBMITTALS PRIOR TO SUBMITTING TO THE ENGINEER FOR REVIEW.
- 12. CONTRACTOR SHALL HOLD ALL PERMITS IN HAND PRIOR TO COMMENCEMENT OF WORK.
- 13. THE CONTRACTOR SHALL IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES TO PREVENT THE TRANSFER OF SUSPENDED SOLIDS AND/OR CHEMICAL SOLUTIONS OFF-SITE, AND TO PREVENT EXCESSIVE SILTATION OF EXISTING DRAINAGE PIPES, CULVERTS, AND DITCHES. THE CONTRACTOR SHALL ROUTINELY INSPECT AND MAINTAIN THESE DEVICES.
- 14. CLEAR AND GRUB WITHIN WORK LIMITS FOR ALL SURFACE VEGETATION, STUMPS, BRUSH, ROOTS, ETC. DO NOT DAMAGE OR REMOVE TREES EXCEPT AS APPROVED BY THE ENGINEER OR AS SHOWN ON THE DRAWINGS.
- 15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, COMPLIANCE WITH OSHA REQUIREMENTS, LOCAL POLICIES AND PROCEDURES, SCOPE OF WORK, CITY OF NORTH CHARLESTON REQUIREMENTS, AND ALL NECESSARY PERMITS.
- 16. THE CONTRACTOR SHALL DESIGNATE ONE SET OF DRAWINGS FOR "AS-BUILT DRAWINGS." THE CONTRACTOR SHALL INDICATE ON THESE DRAWINGS ALL FIELD CHANGES AFFECTING THE DESIGN AS WELL AS LOCATIONS AS ACTUALLY INSTALLED. THE "AS-BUILT DRAWINGS" SHALL BE KEPT CURRENT BY THE CONTRACTOR. THE "AS-BUILT DRAWINGS" SHALL BE DELIVERED TO THE OWNER UPON COMPLETION AND ACCEPTANCE OF THE WORK, FINAL PAYMENT FOR THE WORK WILL NOT BE MADE UNTIL THE "AS-BUILT DRAWINGS" HAVE BEEN COMPLETED AND DELIVERED AS INDICATED ABOVE.
- 17. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL LINES, GRADES, AND STAKING FOR THE PROJECT
- 18. THE CONTRACTOR SHALL ADVISE ENGINEER IF EXISTING GRADES THAT ARE TO REMAIN ARE IN CONFLICT WITH PROPOSED WORK, CAUSING LIMITATIONS IN DRAINAGE PERFORMANCE OR SIGNIFICANT CHANGES IN CONSTRUCTION LIMITS DEFINED WITH CUT OR FILL LIMITS; SPECIFICALLY THAT WHICH RESULTS IN ANY CONSTRUCTION TAKING PLACE OUTSIDE OF PROPOSED CONSTRUCTION LIMITS.
- 19. THE CONTRACTOR SHALL NOTIFY THE CITY OF NORTH CHARLESTON AND SCDOT PRIOR TO CONSTRUCTION FOR REQUIRED INSPECTIONS AND SCHEDULES.
- 20. CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF ANY EXISTING VISIBLE TRASH, DEBRIS, CONSTRUCTION DEBRIS, ETC. SUCH DEBRIS AND MATERIAL SHALL BE REMOVED, HAULED, AND DISPOSED OF OFFSITE IN A PROPER AND LEGAL MANNER. REMOVAL AND DISPOSAL IS CONSIDERED INCIDENTAL TO THE COST OF THE SIDEWALK.

EXISTING UTILITIES AND FACILITIES NOTES:

- 1. THE LOCATION AND DESCRIPTIONS OF EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS AND ARE PROVIDED FOR THE CONVENIENCE OF THE CONTRACTOR. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE OR ASSUME RESPONSIBILITY FOR THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION. EXERCISE EXTREME CAUTION WHEN WORKING NEAR EXISTING UTILITIES. THE LOCATION OF UTILITIES SHOWN ON THE PLANS SHOULD BE CONSIDERED APPROXIMATE ONLY. DAMAGE CAUSED TO EXISTING UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- 2. CONTRACTOR SHALL CALL PALMETTO UTILITY PROTECTION SERVICE (PUPS) AND ANY LOCAL UTILITY COMPANY NOT REPRESENTED BY PUPS A MINIMUM OF 72 HOURS PRIOR TO STARTING ANY PROPOSED WORK (811). KNOWN AREA UTILITY PROVIDERS INCLUDE CHARLESTON WATER SYSTEM, DOMINION ENERGY, SCPSA (SANTEE COOPER), AND AT&T.
- 3. ALL EXISTING FACILITIES SHALL BE MAINTAINED IN-PLACE BY THE CONTRACTOR UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO SUPPORT, MAINTAIN, OR OTHERWISE PROTECT EXISTING UTILITIES AND OTHER FACILITIES NOT INDICATED TO BE REMOVED AT ALL TIMES DURING CONSTRUCTION. ALL EXISTING STRUCTURES, INCLUDING BUT NOT LIMITED TO SIGNS AND DRIVES DISTURBED DURING CONSTRUCTION THAT ARE NOT SHOWN TO BE PERMANENTLY DEMOLISHED, SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER.
- 4. CONTRACTOR SHALL REMOVE AND REPLACE ALL EXISTING SURFACE FEATURES (UNLESS INDICATED TO BE PERMANENTLY DEMOLISHED) NECESSARY FOR INSTALLATION/REMOVAL OF ALL UNDERGROUND AND ABOVE GROUND WORK AS INDICATED ON THESE PLANS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, FENCES, CURB & GUTTER, LANDSCAPING, SIDEWALKS, AND PAVEMENT.
- 5. ALL PAVEMENT DAMAGED DURING CONSTRUCTION THAT IS NOT INDICATED TO BE PERMANENTLY DEMOLISHED SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST.
- 6. THE CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING PROPERTY AND STREET MONUMENTS PRIOR TO CONSTRUCTION. ANY MONUMENTS DISTURBED DURING CONSTRUCTION OF THE PROJECT SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR AT THE CONTRACTOR'S EXPENSE.
- 7. DRAINAGE PIPES DESTROYED DURING CONSTRUCTION (WHICH ARE NOT INDICATED TO BE PERMANENTLY DEMOLISHED) ARE TO BE REPLACED WITH NEW CLASS III-WALL B REINFORCED CONCRETE PIPE COMPLYING WITH ASTM C76. ALL JOINTS SHALL HAVE A GASKET MEETING ASTM C443 SPECIFICATIONS AND BE WRAPPED WITH A MINIMUM OF 18" OF FILTER FABRIC, UNLESS OTHERWISE NOTED.
- 8. ANY UNKNOWN WELLS, TANKS, PIPES, STRUCTURES, ETC. ENCOUNTERED SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE OWNER AND ENGINEER. IN THE EVENT CONTAMINATED OR HAZARDOUS MATERIAL IS ENCOUNTERED, THE CONTRACTOR SHALL CONTACT THE SOUTH CAROLINA DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL (SCDHEC).
- 9. SHUT DOWNS AND TRANSFERS SHALL BE COORDINATED WITH UTILITY PROVIDER. SOME UTILITY SHUT DOWNS MAY BE REQUIRED AFTER NORMAL BUSINESS HOURS. SHUT DOWNS SHALL BE KEPT TO A MINIMUM AND UTILITY PROVIDER SHALL HAVE AT LEAST 48 HOURS NOTICE.

GRADING, DRAINAGE, AND PAVING NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MANAGING CONSTRUCTION ACTIVITIES AROUND THE CLOCK TO ENSURE THAT PUBLIC STREETS AND RIGHTS-OF-WAY ARE KEPT CLEAN OF MUD, DUST, AND DEBRIS. DUST ABATEMENT SHALL BE MAINTAINED BY ADEQUATE WATERING OF THE SITE BY THE CONTRACTOR.

- 2. UNLESS OTHERWISE SHOWN ON THE DRAWINGS. NO FILL SLOPES SHALL BE CONSTRUCTED STEEPER THAN 2H:1V.
- 3. RESTORE ALL AREAS DISTURBED BY CONSTRUCTION TO GRADES THAT RESULT IN POSITIVE DRAINAGE.
- 4. DURING THE USE OF PUMPS TO REMOVE ANY WATER, CONTRACTOR SHALL RETAIN THE WATER IN SPECIAL RETENTION AREAS AND NOT DISCHARGED INTO THE STORM PONDS, STORM INLETS, OR INTO RECEIVING WATERS. THE WATER SHALL BE TREATED ON SITE PRIOR TO DISCHARGE TO THE RECEIVING WATERS. THIS TREATMENT MAY BE BY PUMPING INTO GRASSED AREAS, FILTER BAGS, ISOLATED SEDIMENT BASINS, OR CONFINED BY AN APPROPRIATE ENCLOSURE.
- 5. THE CONTRACTOR'S DEWATERING OPERATION SHALL BE IN COMPLIANCE WITH ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS AND STANDARDS FOR WATER QUALITY AND QUANTITY. SEE SOIL MANAGEMENT PLAN (IF APPLICABLE) FOR ADDITIONAL REQUIREMENTS.

SCDHEC STANDARD NOTES:

- 1. IF NECESSARY, SLOPES, WHICH EXCEED EIGHT (8) VERTICAL FEET SHOULD BE STABILIZED WITH SYNTHETIC OR VEGETATIVE MATS, IN ADDITION TO HYDROSEEDING. IT MAY BE NECESSARY TO INSTALL TEMPORARY SLOPE DRAINS DURING CONSTRUCTION. TEMPORARY BERMS MAY BE NEEDED UNTIL THE SLOPE IS BROUGHT TO GRADE.
- 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 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 14 DAYS, TEMPORARY STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE.
- 3. 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.
- 4. 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 SEDIMENT BEFORE BEING PUMPED BACK INTO ANY WATERS OF THE STATE.
- 5. 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.
- 6. 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.
- 7. RESIDENTIAL SUBDIVISIONS REQUIRE EROSION CONTROL FEATURES FOR INFRASTRUCTURE AS WELL AS FOR INDIVIDUAL LOT CONSTRUCTION. INDIVIDUAL PROPERTY OWNERS SHALL FOLLOW THESE PLANS DURING CONSTRUCTION OR OBTAIN APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C. REG. 72-300 ET SEO. AND SCR100000.
- APPROVAL OF AN INDIVIDUAL PLAN IN ACCORDANCE WITH S.C REG. 72-300 ET SEQ. AND SCR100000.

 8. 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.

- 9. 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
- 10. 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.
- 11. A COPY OF THE SWPPP, INSPECTIONS 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.
- 12. 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.
- 13. MINIMIZE SOIL COMPACTION AND, UNLESS INFEASIBLE, PRESERVE TOPSOIL.
- 14. 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;
- 15. MINIMIZE THE DISCHARGE OF POLLUTANTS FROM DEWATERING OF TRENCHES AND EXCAVATED AREAS. THESE DISCHARGES ARE TO BE ROUTED THROUGH APPROPRIATE BMPS (SEDIMENT BASIN, FILTER BAG, ETC.).
- 16. THE FOLLOWING DISCHARGES FROM SITES ARE PROHIBITED:

SILT FENCE AND ALL WOS.

- •• 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.
- 17. AFTER CONSTRUCTION ACTIVITIES BEGIN, INSPECTIONS MUST 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.
- 18. IF EXISTING BMPS NEED TO BE MODIFIED OR IF ADDITIONAL BMPS ARE NECESSARY TO COMPLY WITH THE REQUIREMENTS OF THIS PERMIT AND/OR SC'S WATER QUALITY STANDARDS, IMPLEMENTATION MUST BE COMPLETED BEFORE THE NEXT STORM EVENT WHENEVER PRACTICABLE. IF IMPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTICABLE, THE SITUATION MUST BE DOCUMENTED IN THE SWPPP AND ALTERNATIVE BMPS MUST BE IMPLEMENTED AS SOON AS REASONABLY POSSIBLE.
- 19. A PRE-CONSTRUCTION CONFERENCE MUST BE HELD FOR EACH CONSTRUCTION SITE WITH AN APPROVED ON-SITE SWPPP PRIOR TO THE IMPLEMENTATION OF CONSTRUCTION ACTIVITIES. FOR NON-LINEAR PROJECTS THAT DISTURB 10 ACRES OR MORE THIS CONFERENCE MUST BE HELD ON-SITE UNLESS THE DEPARTMENT HAS APPROVED OTHERWISE.

CONSTRUCTION SEQUENCE

- 1. RECEIVE NPDES COVERAGE FROM DHEC AND MS4 APPROVAL FROM CITY OF NORTH CHARLESTON.
- 2. CONDUCT PRE-CONSTRUCTION MEETING. ALL PARTIES INVOLVED SHALL BE INVITED.
- NOTIFY DHEC EQC REGIONAL OFFICE OR OCRM OFFICE, CITY OF NORTH CHARLESTON, AND SCDOT 48 HOURS PRIOR TO BEGINNING LAND DISTURBING ACTIVITIES.
- 4. INSTALL TEMPORARY AND PERMANENT PERIMETER EROSION CONTROL BEST MANAGEMENT PRACTICES.
- 5. PERFORM CLEARING, TOPSOIL REMOVAL, AND EARTHWORK FOR DRIVEWAY AND SIDEWALK CONSTRUCTION.
- REMOVE EROSION TEMPORARY CONTROL BEST MANAGEMENT PRACTICES

6. PERMANENT/FINAL STABILIZATION OF ALL DISTURBED AREA AND LANDSCAPING.

- 8. CONTACT CITY OF NORTH CHARLESTON FOR INSPECTION OF STABILIZATION MEASURES.
- 9. SUBMIT NOTICE OF TERMINATION (NOT) TO DHEC AND CITY OF NORTH CHARLESTON.

EXISTING CONDITION NOTES:

- 1. ALL BOUNDARY AND ORIGINAL TOPOGRAPHIC INFORMATION HAS BEEN PROVIDED BY OTHERS
- 2. THIS SURVEY DEPICTS THE EXPECTED EXISTING CONDITIONS AND TOPOGRAPHY AT THE BEGINNING OF CONSTRUCTION FOR THIS PROJECT.
- 3. US ARMY CORPS OF ENGINEERS JURISDICTIONAL WETLAND DETERMINATIONS HAVE BEEN MADE FOR THIS SURVEY.
- 4. BY GRAPHIC PLOTTING ONLY, THE MAJORITY OF THIS PROJECT APPEARS TO BE IN FLOOD ZONE 'AE' AS SHOWN ON FLOOD INSURANCE RATE MAPS #45019C0501K IN COMMUNITY #450042, EFFECTIVE JANUARY 20, 2021
- 5. SOME EXISTING CONDITIONS WERE OBTAINED FROM AVAILABLE RECORD DRAWINGS AND FIELD SURVEYS. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. CONTRACTOR SHALL VERIFY EXACT LOCATION OF ALL UTILITIES, LANDSCAPING, AND OTHER SITE FEATURES IN THE FIELD PRIOR TO THE START OF ANY WORK.
- 6. SOME UNDERGROUND CONDUITS MAY NOT BE SHOWN ON THESE PLANS. PRIOR TO ANY EXCAVATION, CONTRACTOR TO CALL PALMETTO UTILITY PROTECTION SERVICE (PUPS) AND ANY LOCAL UTILITY COMPANY NOT REPRESENTED BY PUPS TO LOCATE ALL EXISTING UTILITIES BY CALLING 811.

NORTH CHARLESTON MS4 STANDARD NOTES:

- 1. UPON COMPLETION FOR THIS DEVELOPMENT, THE OWNER SHALL PROVIDE THE CITY OF NORTH CHARLESTON WITH AN ASBUILT AND VIDEO INSPECTION OF THE COMPLETED STORM DRAINAGE SYSTEM, A FINAL INSPECTION REPORT (PREPARED BY A REGISTERED PROFESSIONAL ENGINEER) AND A MS4 CLOSEOUT APPLICATION FORM, IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 2.2.2 OF CITY OF NORTH CHARLESTON STORMWATER DESIGN MANUAL. THE OWNER SHALL PROVIDE THE CITY OF NORTH CHARLESTON WITH A VIDEO INSPECTION OF THE STORM DRAINAGE SYSTEM AT THE END OF THE 2-YEAR WARRANTY PERIOD.
- 2. THE OWNER SHALL COMPLETE THE STORM DRAINAGE SYSTEM IN ACCORDANCE WITH THE APPROVED PLANS. IN THE EVENT THAT THE DEVELOPMENT CANNOT BE COMPLETED, DUE TO CIRCUMSTANCES BEYOND THE OWNER'S CONTROL, THE OWNER SHALL ENSURE THAT THE COMPLETED STORM DRAINAGE SYSTEM WILL ACCOMMODATE THE STORMWATER RUNOFF GENERATED FROM THE PROJECT AND ADJOINING PHASES OF DEVELOPMENT AND IS COLLECTED AND DISCHARGED IN A PROPER MANNER. IN THIS CASE, THE OWNER SHALL SUBMIT A PLAN TO PUBLIC WORKS FOR REVIEW/APPROVAL OF THE TEMPORARY DRAINAGE PLAN.
- 3. THE ENGINEER/OWNER SHALL PROVIDE THE CITY OF NORTH CHARLESTON WITH AN AS-BUILT SURVEY OF THE SITE (TIED TO THE STATE PLAN COORDINATE SYSTEM), TO INCLUDE ALL STORM DRAINAGE LINES, BOTH EXISTING AND NEWLY INSTALLED. SURVEY SHALL ALSO INCLUDE THE PIPE SIZE, MATERIAL, AND INVERT ELEVATIONS, IN COMPLIANCE WITH THE CITY OF NORTH CHARLESTON STORMWATER DESIGN MANUAL AND NPDES PERMIT. (SEE SECITON 2.2.2.4 IN CITY OF NORTH CHARLESTON PERMITTING STANDARDS AND PROCEDURES MANUAL)





PROJECT OWNER:

CHARLESTON COUNTY

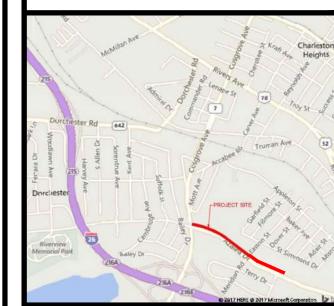
PUBLIC WORKS

PROJECT TITLE:

AZALEA DRIVE SIDEWALK

PROJECT LOCATION:
NORTH CHARLESTON, SC

PROJECT NUMBER: 0200102.05



FOR CONSTRUCTION

ORIGINAL SUBMISSION: 03/16/2018 REVISIONS:

 NO. DATE
 DESCRIPTION

 1
 05/17/2018
 SCDOT COMMENTS

 2
 11/05/2019
 SCDOT COMMENTS

 6
 07/14/2020 | SLOPE PERMISSIONS REVISION

 7
 08/13/2020 | RIGHT-OF-WAY REVISIONS

 8
 10/19/2020 | MS4 REVISIONS

 9
 02/02/2021 | SCDOT & QUANTITY REVISIONS

 10
 OUNCLOSED | SCDOT & QUANTITY REVISIONS

MRS/JSM

APPROVED BY:
PAF

PAF

DATE:

02/02/2021

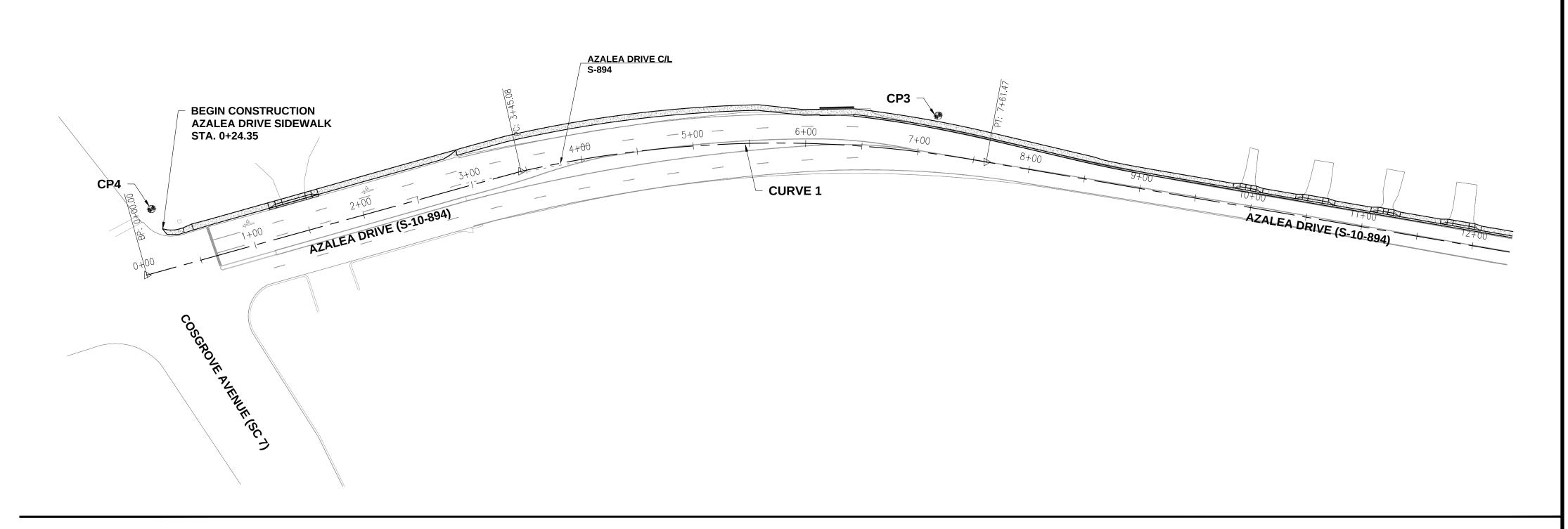
GENERAL NOTES

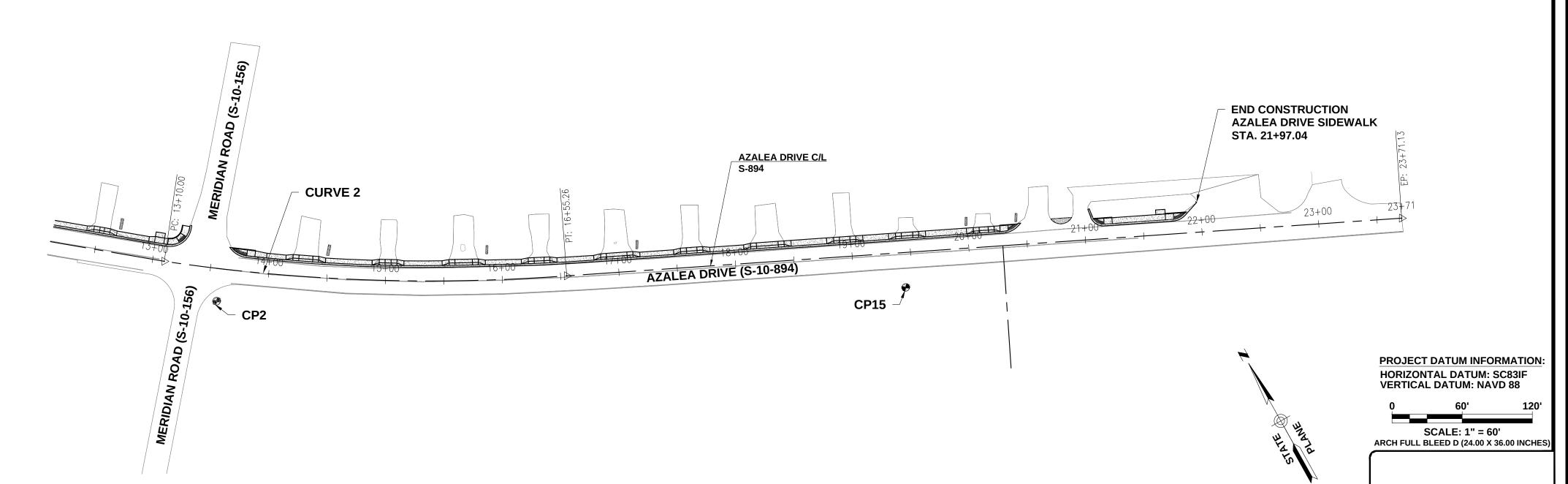
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End:	3+45.080	370287.6100	2313745.2640
	Tangent Data		
Parameter	Value	Parameter	Value
Length:	345.0800	Course:	S 76° 17' 41.5879" E
	343.0000	course.	41.3073 L
	Curve 1 Point Dat	a	
Description	Station	Northing	Easting
PC:	3+45.080	370287.6100	2313745.2640
RP:		369294.4430	2313450.0890
PT:	7+61.473	370093.0220	2314110.2270
	Circular 1 Curve Da	ta	
Parameter	Value	Parameter	Value
Delta:	23° 01' 34.5141"	Туре:	RIGHT
Padius		DOC:	05° 31'
Radius: Length:	1036.1030 416.3930		47.7467" 211.0450
Mid-Ord:		External:	211.0450
	20.8470	LACEITIAI.	S 61° 56'
Chord:	413.5970	Course:	04.5820" E
	Tangant Data		
Description	Tangent Data PT Station	Northing	Easting
Start:	7+61.473		2314110.2270
End:	13+10.000		2314536.5200
	Tangent Data	3037 17.0330	231 1330.3200
Parameter	Value	Parameter	Value
Leadh			S 51° 00'
Length:	548.5270	Course:	04.7268" E
	Curvo 2 Point Dat		
	CHIVE / POHIL Date	u	
Description	Curve 2 Point Dat	Northing	Easting
•	Station	_	
Description PC: RP:		369747.8330	2314536.5200
PC:	Station	369747.8330 370975.2570	2314536.5200 2315483.8890
PC: RP:	Station 13+10.000	369747.8330 370975.2570 369568.9200	2314536.5200 2315483.8890
PC: RP:	Station 13+10.000 16+55.262	369747.8330 370975.2570 369568.9200	2314536.5200 2315483.8890
PC: RP: PT: Parameter	Station 13+10.000 16+55.262 Circular 2 Curve Da Value	369747.8330 370975.2570 369568.9200 ta Parameter	2314536.5200 2315483.8890 2314830.9760 Value
PC: RP: PT: Parameter Delta:	Station 13+10.000 16+55.262 Circular 2 Curve Da Value 12° 45' 30.2882"	369747.8330 370975.2570 369568.9200 ta Parameter Type:	2314536.5200 2315483.8890 2314830.9760 Value LEFT 03° 41'
PC: RP: PT: Parameter Delta: Radius:	Station 13+10.000 16+55.262 Circular 2 Curve Da Value 12° 45' 30.2882" 1550.5090	369747.8330 370975.2570 369568.9200 ta Parameter Type:	2314536.5200 2315483.8890 2314830.9760 Value LEFT 03° 41' 43.0350"
PC: RP: PT: Parameter Delta: Radius: Length:	Station 13+10.000 16+55.262 Circular 2 Curve Da Value 12° 45' 30.2882" 1550.5090 345.2620	369747.8330 370975.2570 369568.9200 ta Parameter Type: DOC: Tangent:	2314536.5200 2315483.8890 2314830.9760 Value LEFT 03° 41' 43.0350" 173.3480
PC: RP: PT: Parameter Delta: Radius:	Station 13+10.000 16+55.262 Circular 2 Curve Da Value 12° 45' 30.2882" 1550.5090 345.2620	369747.8330 370975.2570 369568.9200 ta Parameter Type:	2314536.5200 2315483.8890 2314830.9760 Value LEFT 03° 41' 43.0350" 173.3480
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	GENERAL INFORMATION
	CONTROL SURVEY SUMMARY
VERTICAL	NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88)
HORIZONTAL	NORTH AMERICAN DATUM 1983 (NAD 83)
COORDINATES	SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM (SC83IF)
COMBINED FACTOR	0.999906462 AT CONTROL POINT 3 (GRID TO GROUND)

	S	URVEY C	ONTROL P	POINTS
CONTROL	NORTHING (Y)	EASTING (X)	ELEV.	DESCRIPTION
CP2	369,696.24	2,314,558.82	11.12'	LANDSCAPE NAIL AND WASHER
CP3	370,149.66	2,314,092.86	11.13'	LANDSCAPE NAIL AND WASHER
CP4	370,418.66	2,313,442.22	17.39'	LANDSCAPE NAIL AND WASHER
CP15	369,418.75	2,315,079.25	11.38'	LANDSCAPE NAIL AND WASHER









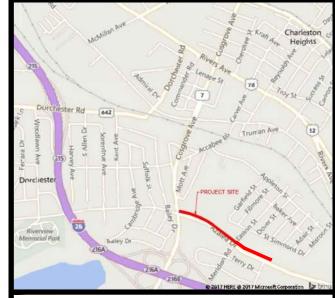
PROJECT OWNER: CHARLESTON COUNTY PUBLIC WORKS

PROJECT TITLE:

AZALEA DRIVE SIDEWALK

PROJECT LOCATION:
NORTH CHARLESTON, SC

PROJECT NUMBER: 0200102.05



FOR CONSTRUCTION

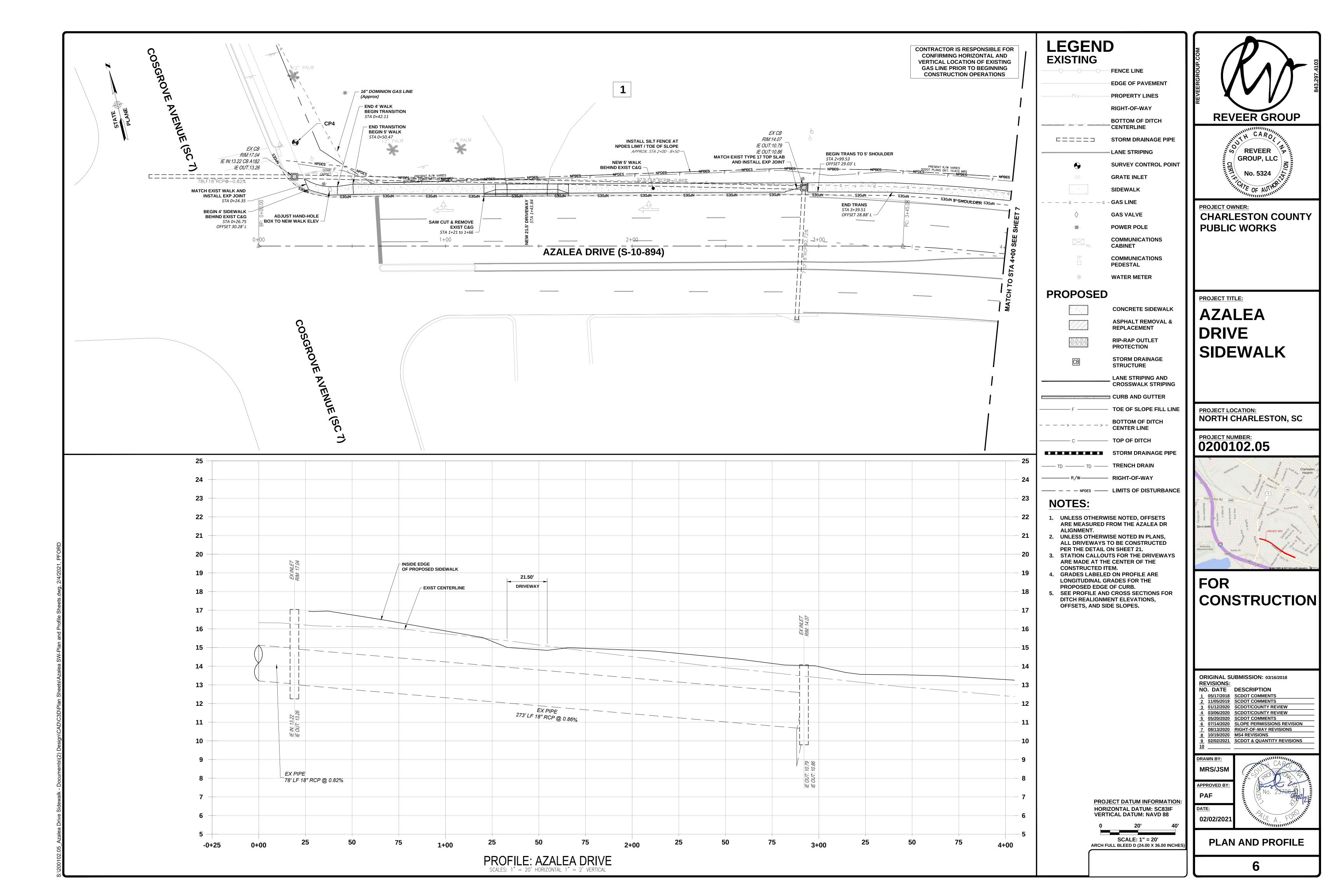
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REVISIONS:
NO. DATE DESCRIPTION

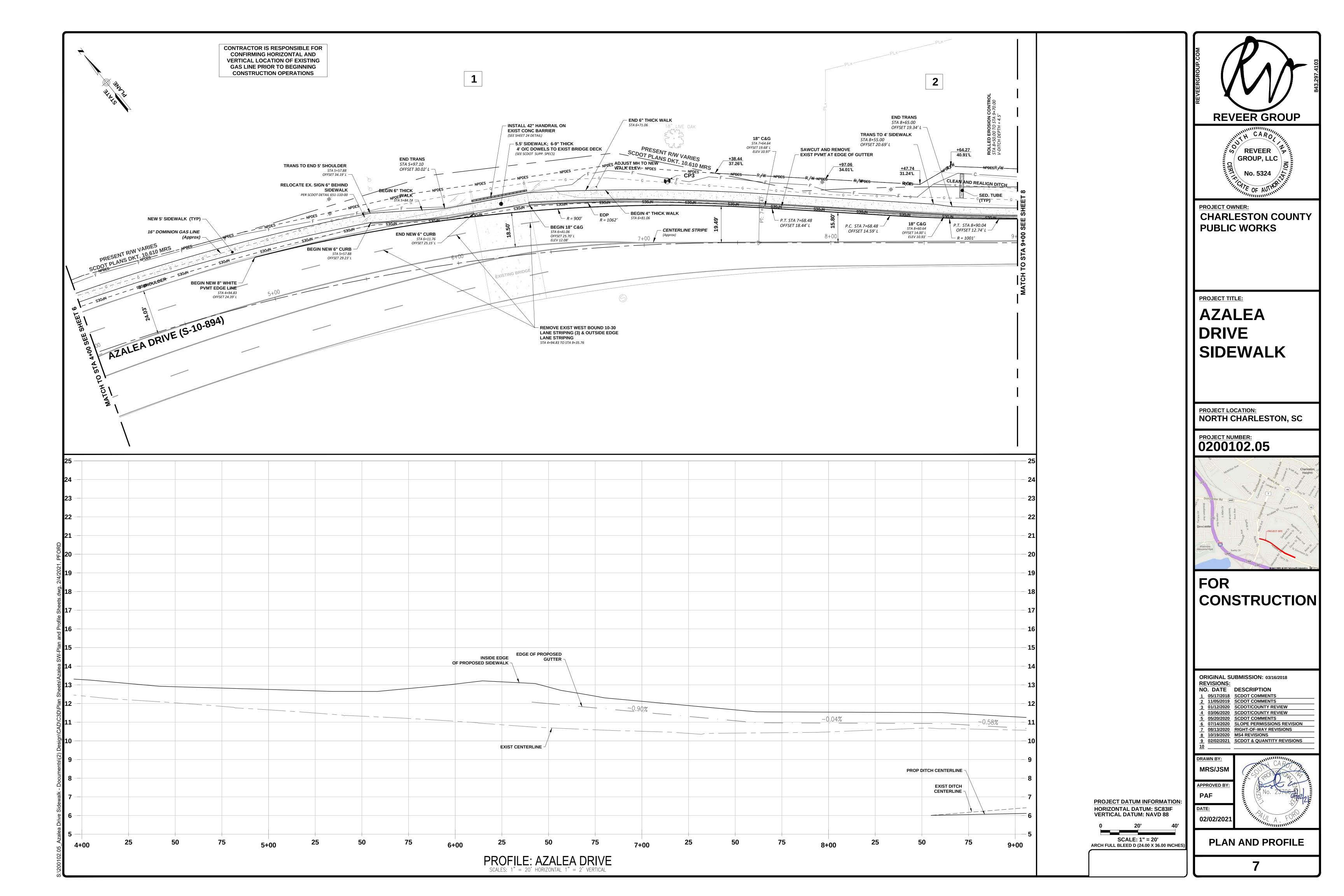
1 05/17/2018 SCDOT COMMENTS
2 11/05/2019 SCDOT COMMENTS
3 01/12/2020 SCDOT/COUNTY REVIEW
4 03/06/2020 SCDOT/COUNTY REVIEW
5 05/20/2020 SCDOT COMMENTS
6 07/14/2020 SCDOT COMMENTS
6 07/14/2020 SLOPE PERMISSIONS REVISION
7 08/13/2020 RIGHT-OF-WAY REVISIONS
8 10/19/2020 MS4 REVISIONS
9 02/02/2021 SCDOT & QUANTITY REVISIONS

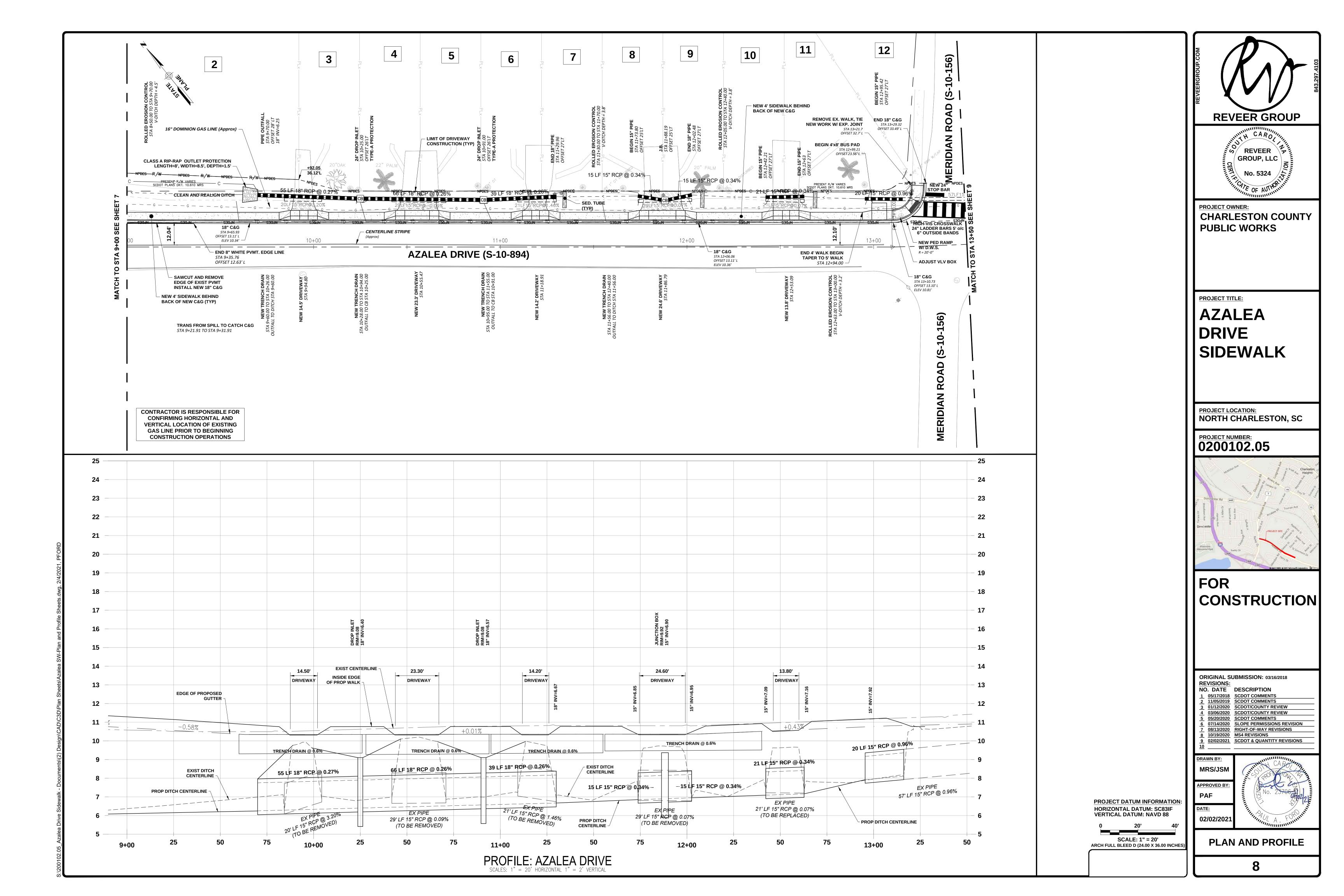
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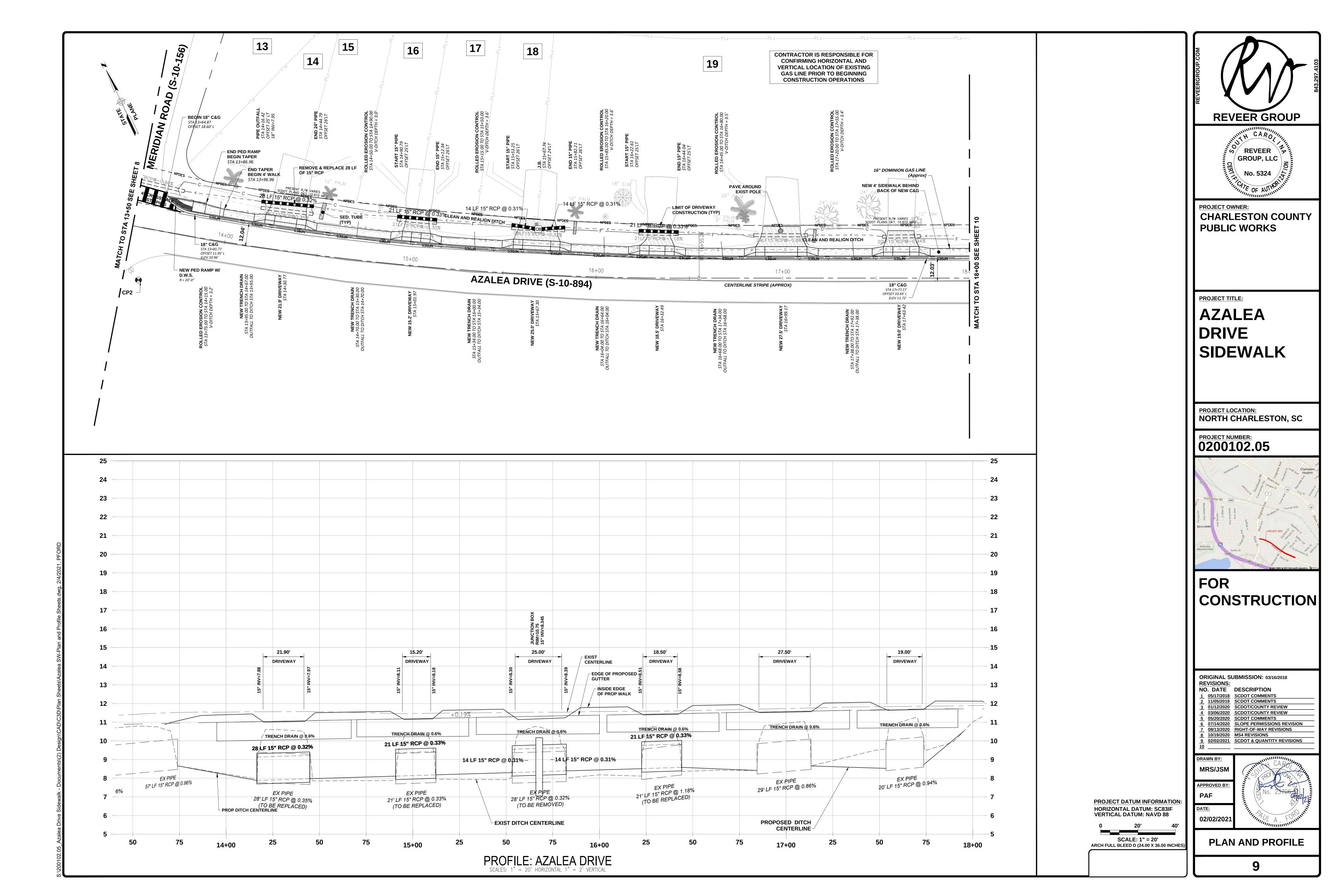
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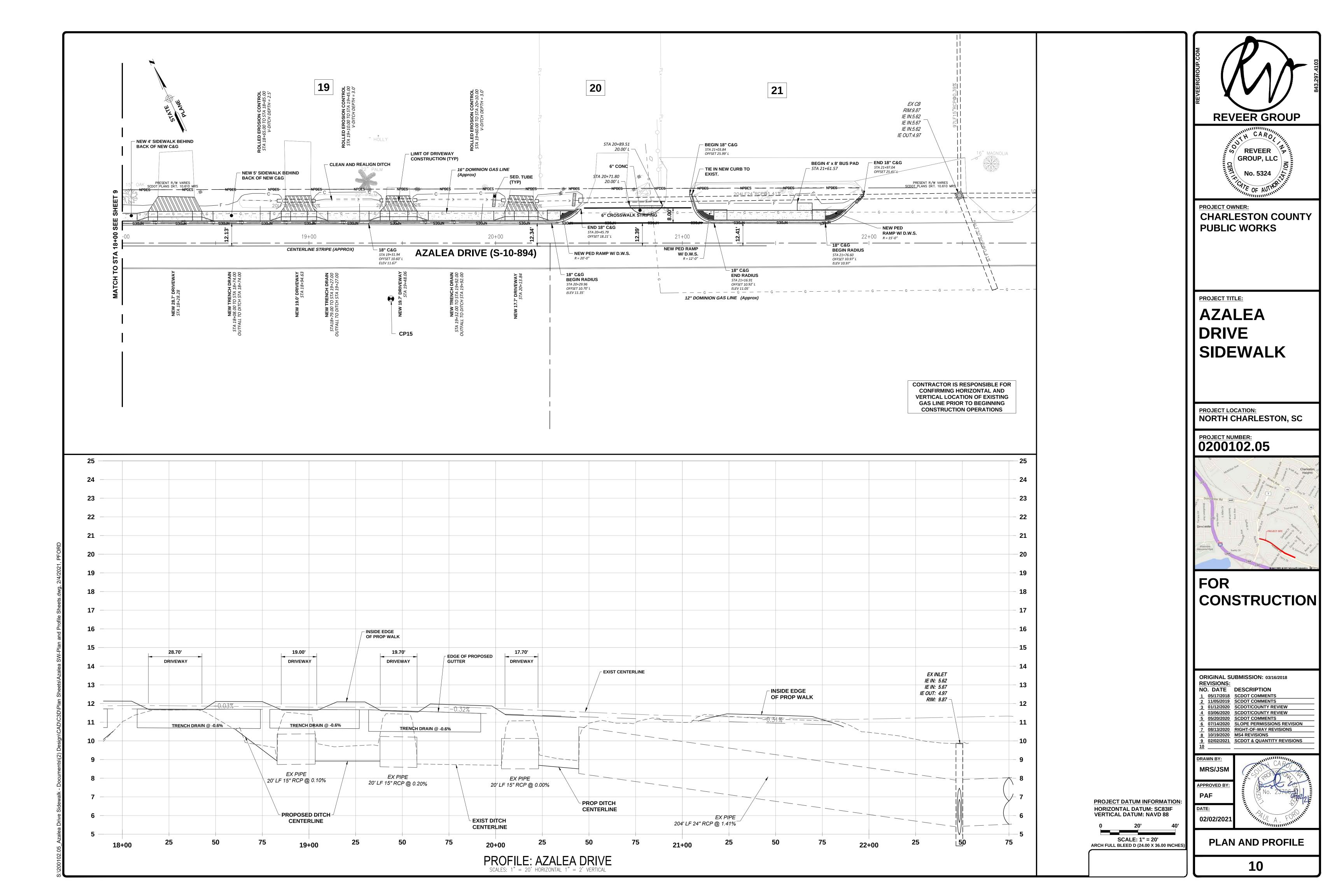
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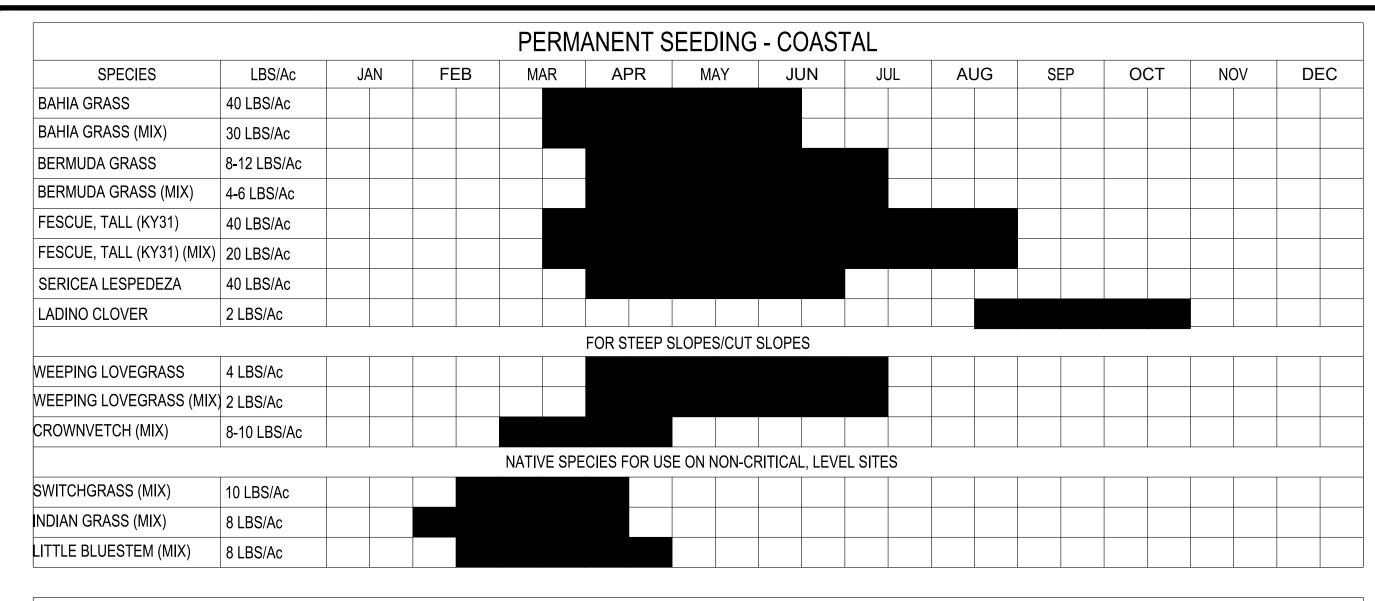












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SPECIES	LBS/Ac	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BROWNTOP MILLET	40 LBS/Ac												
RYE, GRAIN	56 LBS/Ac												
RYEGRASS	50 LBS/Ac												
				FOF	STEEP S	LOPES/CU	T SLOPES	5					
WEEPING	4 LBS/Ac												
LOVEGRASS													

REFER TO

CITY OF NORTH CHARLESTON STORMWATER PROGRAM PERMITTING STANDARDS AND PROCEDURES MANUAL SCDHEC BMP HANDBOOK, APPENDIX C

SCDOT STANDARD SPECIFICATIONS, SECTION 810

CLEMSON UNIVERSITY HOME AND GARDEN INFORMATION CENTER

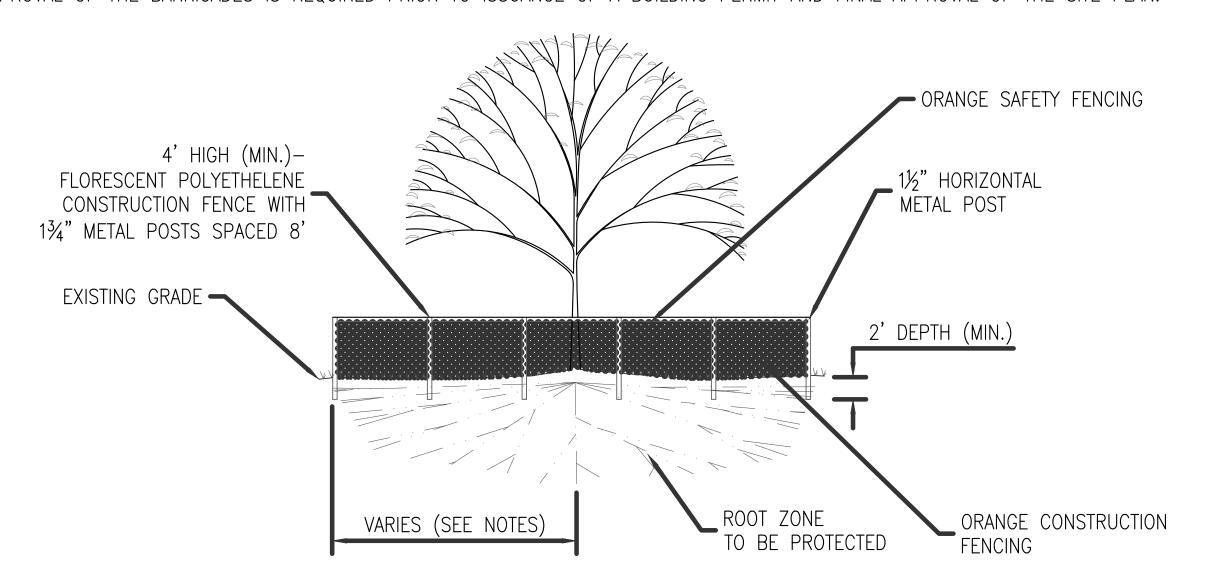
PERMANENT SEEDING GENERAL NOTES:

- 1. ALL AREAS WITHIN THE LIMITS OF WORK NOT INDICATED FOR PAVING, BUILDINGS, LANDSCAPE PLANTING, OR OTHER DEVELOPMENT, AND ALL AREAS DISTURBED BY THE CONTRACTOR'S OPERATIONS, SHALL BE GRASSED BY HYDROSEEDING METHOD.
- 2. APPLYING FERTILIZER: FERTILIZER SHALL BE 10-10-10 FORMULATION APPLIED HYDRAULICALLY WITH THE SEED AND MULCH AT THE RATE OF 1000 POUNDS PER ACRE UNLESS A SOIL TEST INDICATES A DIFFERENT REQUIREMENT.
- 3. MAINTENANCE SHALL BEGIN IMMEDIATELY FOLLOWING THE LAST OPERATION OF GRASSING AND CONTINUE UNTIL FINAL ACCEPTANCE.
 MAINTENANCE SHALL INCLUDE WATERING, REPLANTING, AND ALL OTHER WORK NECESSARY TO PRODUCE A UNIFORM STAND OF GRASS.
 GRASSING WILL BE CONSIDERED FOR FINAL ACCEPTANCE WHEN THE PERMANENT GRASS IS HEALTHY AND GROWING ON 75 PERCENT OF THE AREA WITH NO BARE AREAS WIDER THAN 12 INCHES.



TREE PROTECTION BARRICADE NOTES:

- 1. FOR PROTECTED TREES 23" OR LESS D.B.H., PROTECTIVE BARRICADES SHALL CONSIST OF A CIRCULAR AREA CENTERED AROUND THE TREE, THE RADIUS OF WHICH IS EQUAL TO ONE—HALF FOOT FOR EACH INCH OF DBH MEASUREMENT, OR AT THE DRIP LINE (EXCEPT AS SHOWN AND APPROVED BY THE DEPARTMENT OF PLANNING AND DEVELOPMENT).
- 2. ALL WORK DONE WITHIN PROTECTIVE BARRICADES IS TO BE DONE BY HAND AND LIGHT EQUIPMENT.
- 3. ALL ROOTS OUTSIDE PROTECTIVE BARRICADE TO BE REMOVED SHALL BE SEVERED CLEAN. A 2" LAYER OF MULCH SHALL BE APPLIED OVER THE SURFACE OF EXPOSED ROOTS DURING CONSTRUCTION.
- 4. ALL PROTECTED TREES 8" OR GREATER NEED TO BE TREATED AND CARED FOR BY A CERTIFIED ARBORIST DURING CONSTRUCTION.
- 5. PROTECTIVE BARRIER MUST CONSIST OF ORANGE SAFETY FENCING, NOT LESS THAN 4' HIGH AND SUPPORTED BY METAL POLES.
- 6. APPROVAL OF THE BARRICADES IS REQUIRED PRIOR TO ISSUANCE OF A BUILDING PERMIT AND FINAL APPROVAL OF THE SITE PLAN.







REVEER GROUP, LLC
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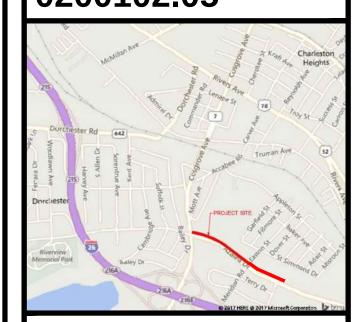
PROJECT OWNER:
CHARLESTON COUNTY
PUBLIC WORKS

PROJECT TITLE:

AZALEA DRIVE SIDEWALK

PROJECT LOCATION:
NORTH CHARLESTON, SC

PROJECT NUMBER: 0200102.05



FOR CONSTRUCTION

ORIGINAL SUBMISSION: 03/16/2018
REVISIONS:
NO. DATE DESCRIPTION

 1
 05/17/2018
 SCDOT COMMENTS

 2
 11/05/2019
 SCDOT COMMENTS

 3
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 SCDOT/COUNTY REVIEW

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 08/13/2020
 RIGHT-OF-WAY REVISIONS

 8
 10/19/2020
 MS4 REVISIONS

 9
 02/02/2021
 SCDOT & QUANTITY REVISIONS

 10
 SCDOT & QUANTITY REVISIONS

MRS/JSM

APPROVED BY:

PAF

DATE:

02/02/2021

SWPPP DETAILS

11

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		ABLE 815	-605A	
HEIGHT OF FILL (y) IN FEET	FILL SLOPE	MINIMUM SILT FENCE OFFSET FROM TOE OF SLOPE (x) IN FEET	MINIMUM RIGHT OF WAY OFFSET FROM TOE OF SLOPE (NPDES LINE) (Z) IN FEET	CHECK LENGTH IN FEET**
<6	2:1 4:1 6:1	2	3	2
	2:1	12*	13*	5
6–10	4:1 6:1	3	4	3
	2:1	12*	13*	5
>10	4:1 6:1	4	5	4

*THESE MINIMUM OFFSETS MAY BE REDUCED WHEN CURB AND GUTTER OR SOME OTHER FEATURE REDUCES THE FLOW OF WATER DOWN THE SLOPE. THE SMALL OFFSETS OF EACH GROUP OF HEIGHT OF FILL CANNOT BE REDUCED.

**SILT FENCE CHECKS WILL HAVE A MAXIMUM LENGTH OF FIVE (5) FEET OR UNTIL THEY TIE BACK INTO THE SLOPE.

SEE 815-605-10 FOR TEMPORARY DIVERSION DIKE

SEE 815-605-20 FOR TEMPORARY SILT DITCH

SEE 815-605-30 FOR ROLLED EROSION CONTROL PRODUCT

1. SILT FENCE CHECKS MUST BE LOCATED EVERY 100 FEET MAXIMUM AND AT LOW POINTS. FILTER FABRICS SHALL CONFORM TO SCDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (LATEST EDITION).

2. USE POSTS CONFORMING TO SCDOT STANDARD SPECIFICATIONS AND SPECIAL PROVISIONS. POSTS SHALL BE A MINIMUM OF 5 FEET LONG AND INSTALLED TO A MINIMUM DEPTH OF 24 INCHES WITH NO MORE THAN 3 FEET OF THE POST ABOVE GROUND. AT LEAST 1 TO 2 INCHES OF THE POSTS SHALL EXTEND ABOVE THE TOP OF THE FABRIC. POST SPACING WILL BE A MAXIMUM OF 6 FEET ON CENTER.

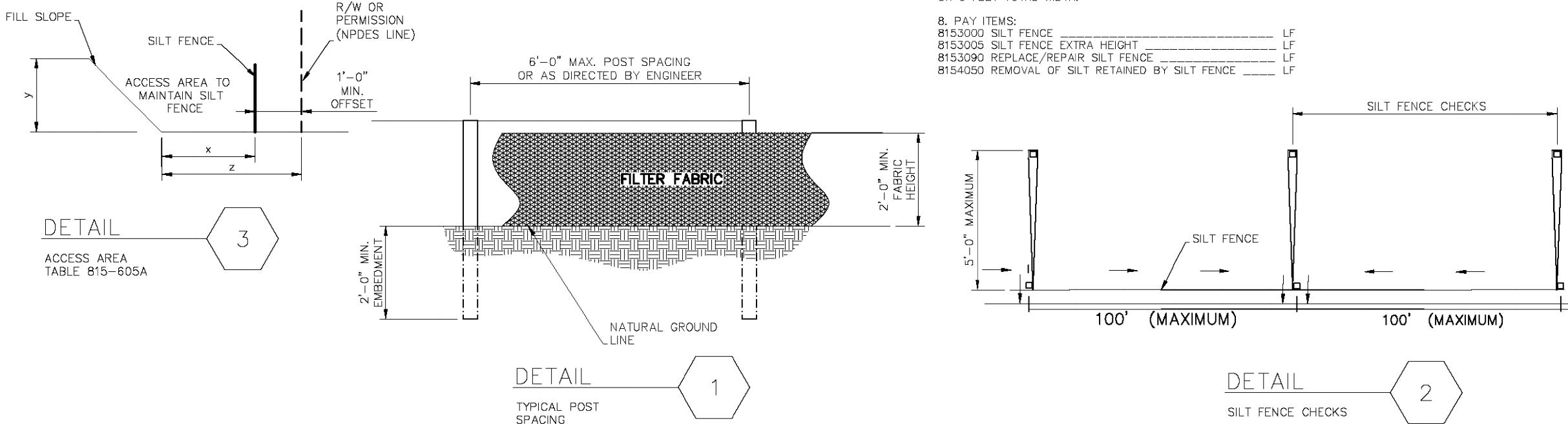
3. POSTS SHALL HAVE PROJECTIONS FOR FASTENING THE FABRIC TO THE POST. POSTS SHALL ALSO HAVE A S PLATE NEAR THE BOTTOM OF THE POST, EXCEPT WHEN HEAVY CLAY SOILS ARE PRESENT ON-SITE.

4. ATTACH FABRIC TO POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED AND PLACED IN A N TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES TIES SHOULD BE AFFIXED IN NO LESS THAN PLACES.

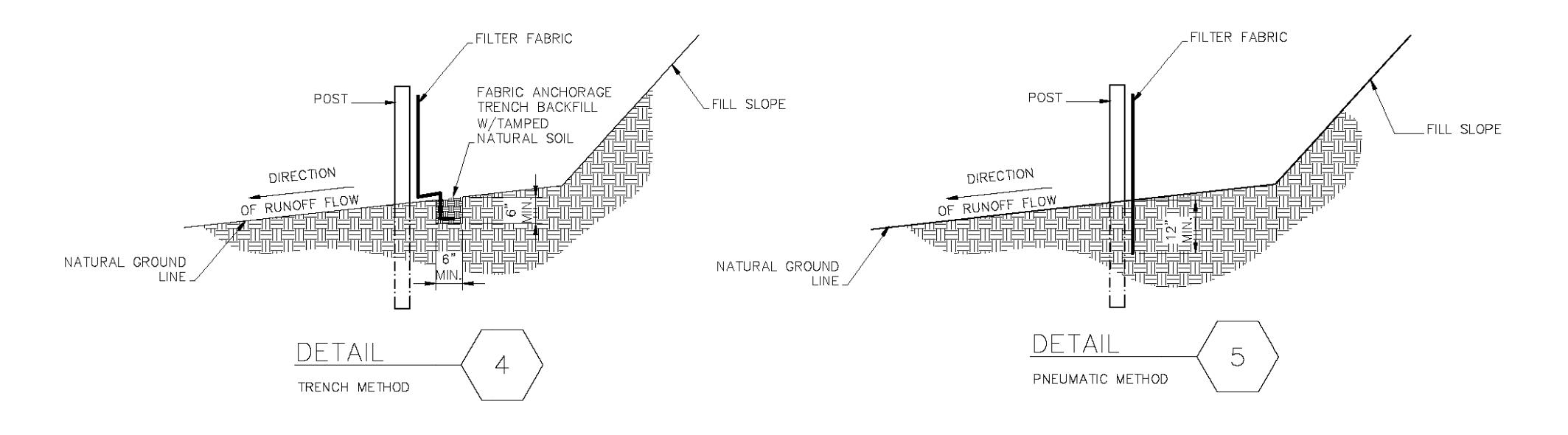
5. SILT SHALL BE REMOVED AND DISPOSED OF WHEN SILT ACCUMULATES TO ½ THE HEIGHT OF THE FENCE. TRASEDIMENT SHALL BE REMOVED OR STABILIZED ON—SITE. MAINTENANCE OF SILT FENCE WILL BE MEASURED AND FOR BY THE ITEM OF REMOVAL OF SILT RETAINED BY SILT FENCE.

6. TYPICAL SILT FENCE APPLICATIONS REQUIRE 24 INCHES OF THE FABRIC TO BE ABOVE GROUND. WHEN NEED! THE HEIGHT OF SILT FENCE FABRIC ABOVE THE GROUND MAY BE GREATER THAN 24". SEE PLANS FOR APPLICA OF HIGHER SILT FENCE, PAY ITEMS, AND INSTALLATION METHODS.

7. IN TIDAL AREAS, EXTRA SILT FENCE MAY BE REQUIRED. THE LENGTH OF POST WILL BE TWICE THE EXPOSED POST HEIGHT, POST SPACING WILL REMAIN AS SHOWN HEREON. EXTRA HEIGHT FABRIC WILL BE 4, 5, OR 6 FEET TOTAL WIDTH.



12 INCHES OF THE FABRIC SHALL BE BURIED REGARDLESS, IF PLACED PNEUMATICALLY OR WITH A TRENCHER. BOTH METHODS SHOWN BELOW.



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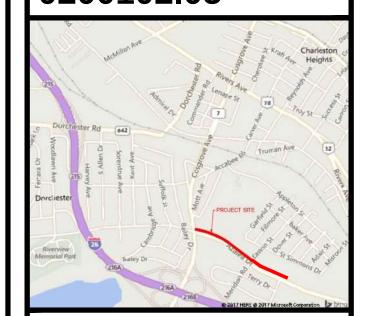
PROJECT OWNER: CHARLESTON COUNTY PUBLIC WORKS

PROJECT TITLE:

AZALEA DRIVE SIDEWALK

PROJECT LOCATION: NORTH CHARLESTON, SC

PROJECT NUMBER: 0200102.05



FOR CONSTRUCTION

ORIGINAL SUBMISSION: 03/16/2018 **REVISIONS:** NO. DATE DESCRIPTION

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 03/06/2020
 SCDOT/COUNTY REVIEW

 05/20/2020
 SCDOT COMMENTS

 07/14/2020
 SLOPE PERMISSIONS REVISION

 08/13/2020
 RIGHT-OF-WAY REVISIONS

10/19/2020 MS4 REVISIONS 02/02/2021 SCDOT & QUANTITY REVISIONS

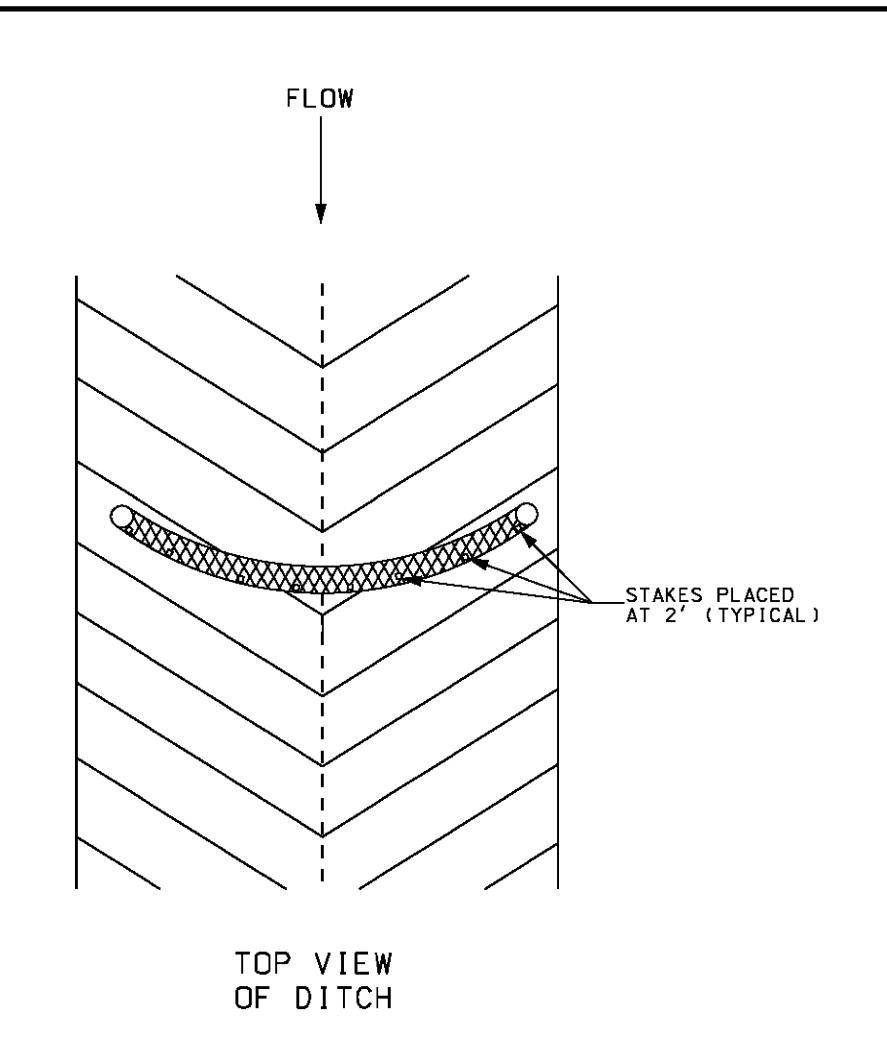
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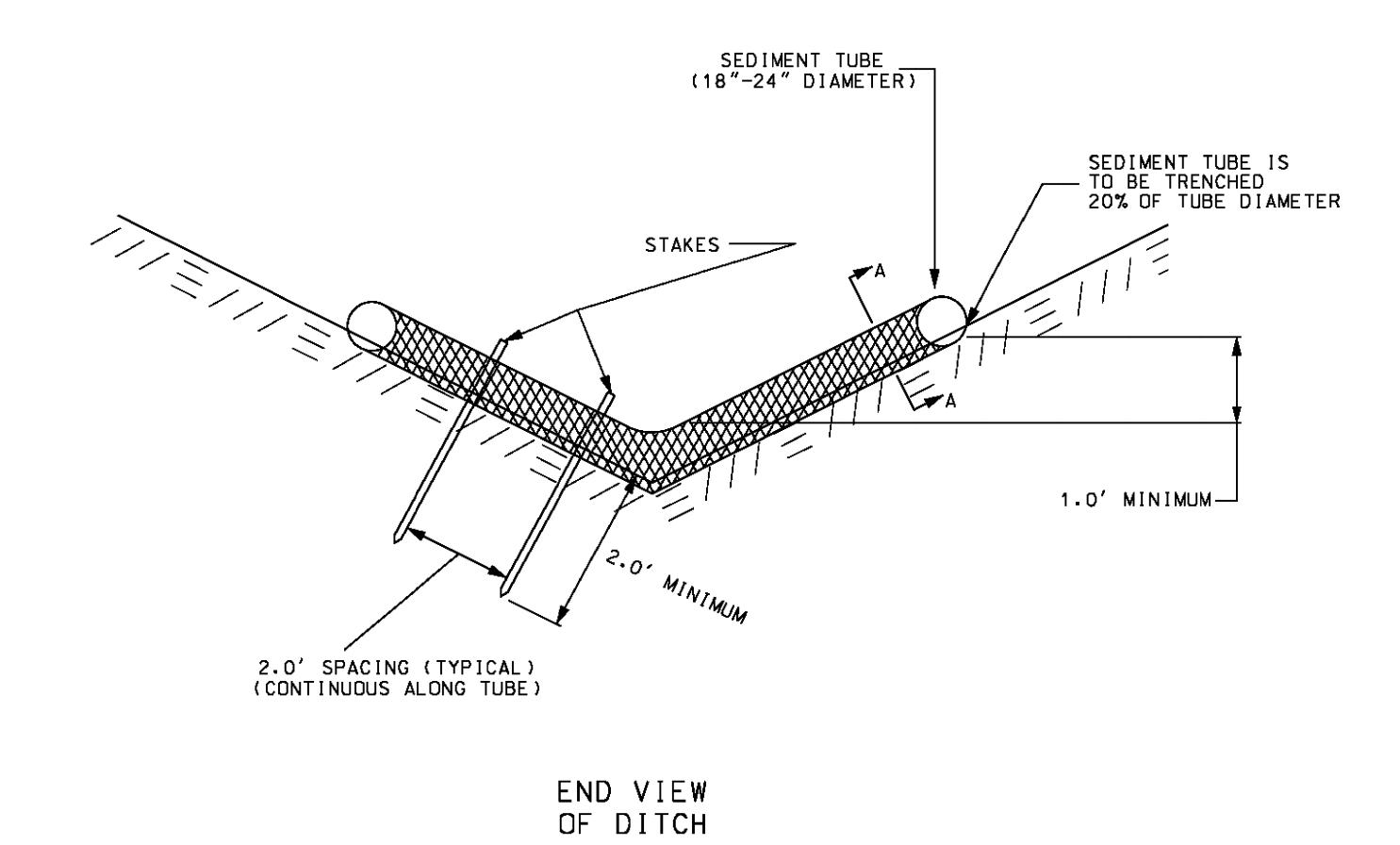
02/02/2023

SCDOT DETAILS

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SCDOT DETAIL 815-605-00 TEMPORARY SILT FENCE





1. SEDIMENT TUBE SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 815 OF THE SCOOT STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION (LATEST EDITION). AND MUST BE LISTED ON SCOOT QUALIFIED PRODUCT LIST NUMBER 57. SEDIMENT TUBES MUST MEET THE CRITERIA OUTLINED IN THE SUPPLEMENTAL SPECIFICATIONS BEFORE BEING LISTED ON QPL. AND BE FREE FROM DEFECTS OR TRANSPORTATION DAMAGE.

2. PROPER SITE PREPARATION IS ESSENTIAL TO ENSURE SEDIMENT TUBES ARE IN COMPLETE CONTACT WITH UNDERLYING SOIL. SEDIMENT TUBES ARE TO BE 18-24 INCHES IN DIAMETER AND ARE TO BE TRENCHED TO A DEPTH OF 20% OF TUBE DIAMETER. LAY THE SEDIMENT TUBE FLAT IN THE U-SHAPED TRENCH AND COMPACT THE UPSTREAM SEDIMENT TUBER SOIL INTERFACE. PLACE AND ANCHOR THE SEDIMENT TUBE ENDS SO THEY ARE POSITIONED UPSTREAM OF THE SEDIMENT TUBE CENTER POINT. SEDIMENT TUBES FOR DITCH CHECKS WEIGHING MORE THAN 18 POUNDS PER FOOT DO NOT REQUIRE TRENCHING.

3. SEDIMENT TUBE SHALL BE INSTALLED IMMEDIATELY AFTER GRADING AND CONSTRUCTION. SEDIMENT TUBE SHALL BE MAINTAINED DURING SUBGRADE AND BASE PREPARATION UNTIL BASE COURSE IS COMPLETE. SEDIMENT TUBES MAY BE TEMPORARILY MOVED DURING CONSTRUCTION.

4. SEDIMENT TUBES ARE TO BE INSTALLED PERPENDICULAR TO WATER FLOW AND EXTEND UP SIDE SLOPES A MINIMUM OF 1 FOOT ABOVE DESIGN FLOW DEPTH. SPACE TUBES ACCORDING TO THE FOLLOWING TABLE:

SLOPE	MAXIMUM SEDIMENT TUBE SPACING
LESS THAN 2%	150 FEET
2%	100 FEET
3%	75 FEET
4%	50 FEET
5%	40 FEET
6%	30 FEET
GREATER THAN 6%	25 FEET

5. STAKE SEDIMENT TUBES FOR DITCH CHECKS USING STAKES WITH A MINIMUM MEASURED DIMENSION OF 2" X 2". OR USING STEEL POSTS(1.25|bs/linear foot)A MINIMUM OF 4' IN LENGTH. USE STEEL POSTS WITHOUT A SOIL PLATE AND PAINTING IS NOT REQUIRED. SPACE POSTS OR STAKES ON 2' CENTERS AND DRIVE THEM INTO THE GROUND TO A MINIMUM DEPTH OF 2'. INSTALL THE STAKES ON THE DOWNSTREAM THIRD OF THE SEDIMENT TUBE. SEDIMENT TUBES FOR DITCH CHECKS WEIGHING MORE THAN 18 POUNDS PER FOOT DO NOT REQUIRE STAKING.

6. SELECT PROPER LENGTH OF TUBE TO MINIMIZE THE NUMBER NEEDED TO SPAN THE WIDTH OF DRAINAGE AREA. ONE CONTINUOUS LENGTH IS PREFERRED COMPARED TO TWO OVERLAPPING TUBES. IF NECESSARY. SEDIMENT TUBES CAN BE LAPPED A MINIMUM OF 6 INCHES TO PREVENT PASSAGE OF FLOW AND SEDIMENT THROUGH FIELD JOINT.

7. INSTALL SEDIMENT TUBES FOR DITCH CHECKS OVER BARE SOIL, MULCHED AREAS, OR EROSION CONTROL BLANKETS. KEEP SEDIMENT TUBES FOR DITCH CHECKS IN PLACE UNTIL FULLY ESTABLISHED VEGETATION AND ROOT SYSTEMS HAVE COMPLETELY DEVELOPED AND CAN SURVIVE ON THEIR OWN.

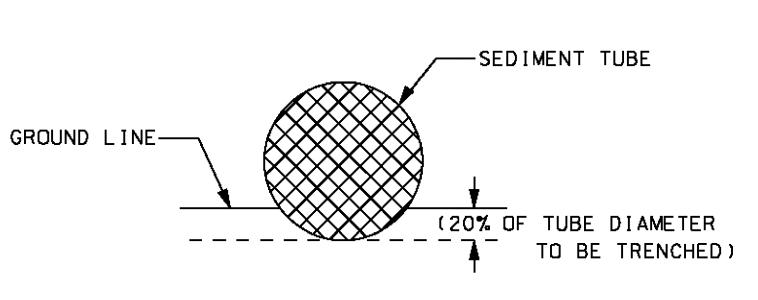
8. INSPECT SEDIMENT TUBES AFTER INSTALLATION FOR GAPS UNDER THE SEDIMENT TUBES AND FOR GAPS BETWEEN THE JOINTS OF ADJACENT ENDS OF SEDIMENT TUBES. INSPECT SEDIMENT TUBES EVERY 7 DAYS. REPAIR ALL RILLS. GULLIES. AND UNDERCUTTING NEAR SEDIMENT TUBES. REMOVE ALL SEDIMENT DEPOSITS THAT IMPAIR THE FILTRATION CAPABILITY OF SEDIMENT TUBES WHEN THE SEDIMENT REACHES 1/3 THE HEIGHT OF THE EXPOSED SEDIMENT TUBE.

9. REMOVE AND/OR REPLACE INSTALLED SEDIMENT TUBES AS REQUIRED TO ADAPT TO CHANGING CONSTRUCTION SITE CONDITIONS. REMOVE SEDIMENT TUBES WHEN THE FUNCTIONAL LONGEVITY IS EXCEEDED AS DETERMINED BY THE ENGINEER, INSPECTOR, OR MANUFACTURER'S REPRESENTATIVE. GATHER SEDIMENT TUBES AND DISPOSE OF THEM IN REGULAR MEANS AS NON-HAZARDOUS, INERT MATERIAL.

10. PRIOR TO FINAL STABILIZATION, BACKFILL ALL TRENCHES, DEPRESSIONS, AND OTHER GROUND DISTURBANCES CAUSED BY THE REMOVAL OF SEDIMENT TUBES.

11. CLEAN OUT OF TUBES WILL BE PAID FOR AS CLEANING SILT BASINS.

12. PAYMENT SHALL INCLUDE ALL MATERIALS, LABOR, TOOLS, EQUIPMENT, MAINTENANCE, AND INCIDENTALS NECESSARY TO COMPLETE WORK. 13. THE PAY ITEMS SHALL BE:
8152007 SEDIMENT TUBE LF
8154010 CLEANING SILT BASINS CY



SECTION A-A



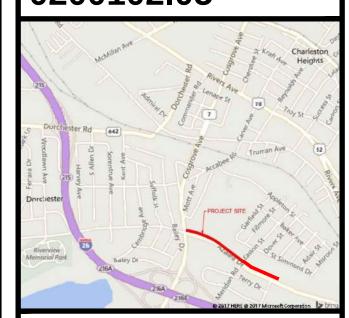
PROJECT OWNER: CHARLESTON COUNTY **PUBLIC WORKS**

PROJECT TITLE:

AZALEA DRIVE SIDEWALK

PROJECT LOCATION: NORTH CHARLESTON, SC

PROJECT NUMBER 0200102.05



FOR CONSTRUCTION

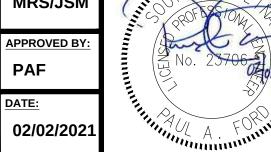
ORIGINAL SUBMISSION: 03/16/2018 **REVISIONS:**

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5 05/20/2020 SCDOT COMMENTS
6 07/14/2020 SLOPE PERMISSIONS REVISION
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8 10/19/2020 MS4 REVISIONS 02/02/2021 SCDOT & QUANTITY REVISIONS

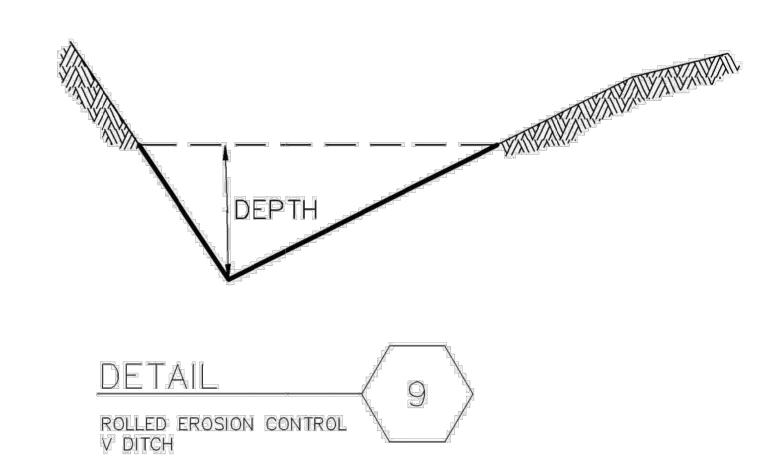
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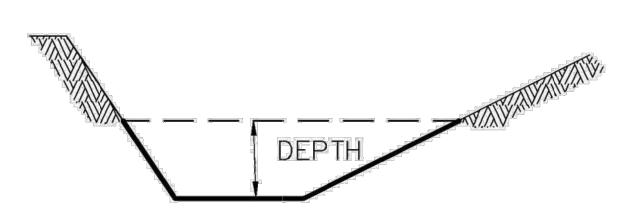


SCDOT DETAILS

13

SCDOT DETAIL 815-205-00 SEDIMENT TUBE DITCH APPLICATION







- 1. THE DEPTH OF THE EROSION CONTROL PRODUCTS ARE TO BE DETERMINED BY DESIGN AND PLACED ON PLAN SHEETS.
- 2. INSTALL IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS.
- 3. COST OF INSTALLATION AND MATERIALS SHALL BE INCLUDED IN THE PAY ITEM FOR ROLLED EROSION CONTROL PRODUCT.

4. PAY ITEMS:

8151150	TEMP	ORARY	EROSION	CONTROL	BLANK	ET (EC	B)	 SY
8151151	TURF	REINFO	RCEMENT	MATTING	(TRM)	TYPE '	1	 SY
8151153	TURF	REINFO	DRCEMENT	MATTING	(TRM)	TYPE	3 _	 SY



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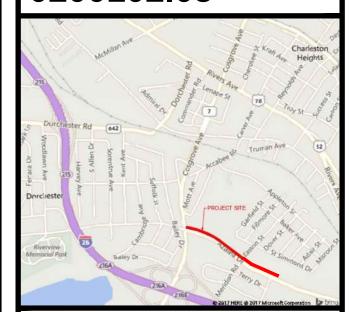
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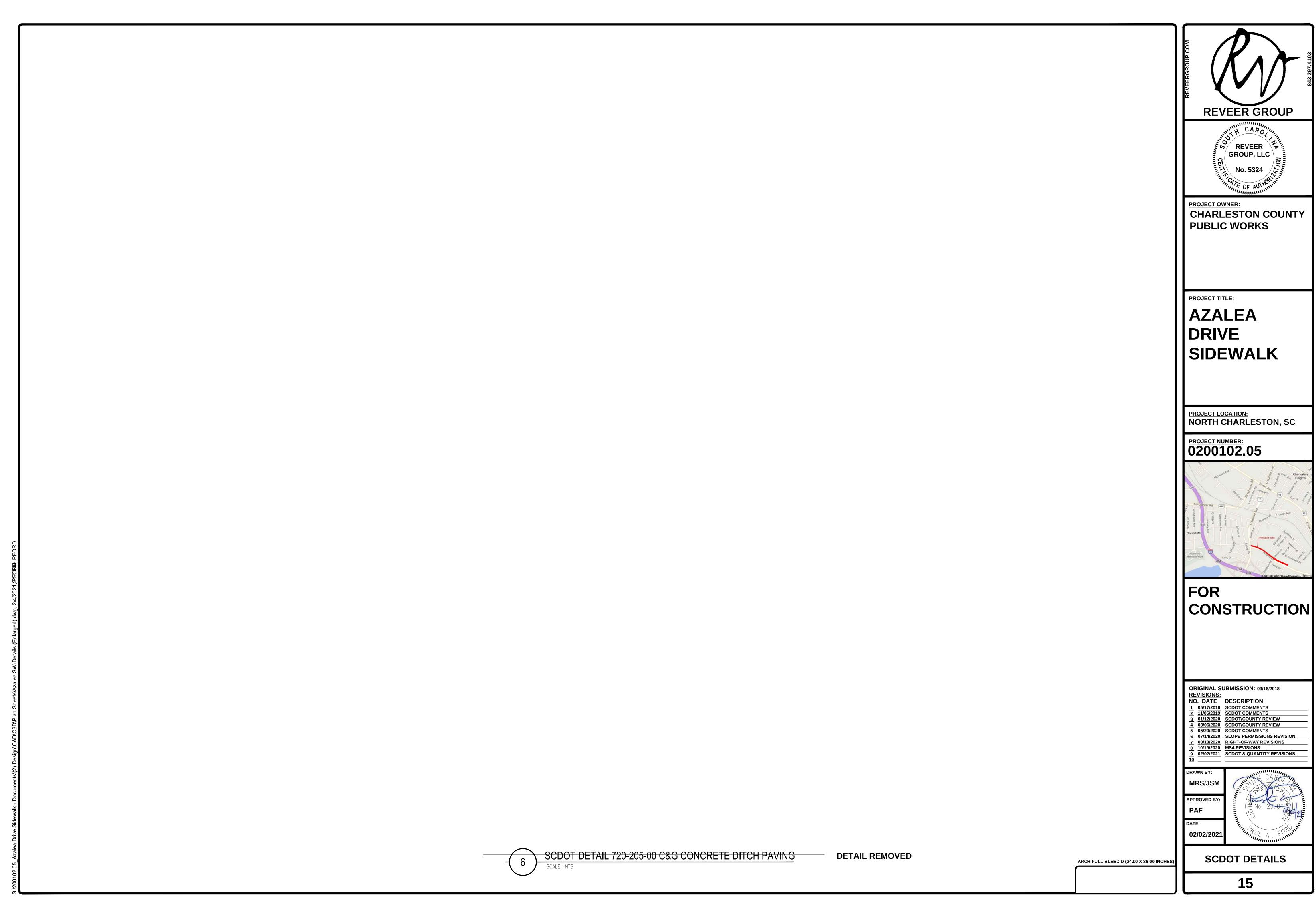
9 02/02/2021 SCDOT & QUANTITY REVISIONS

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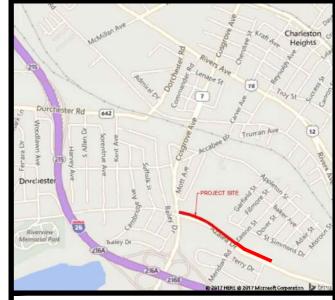


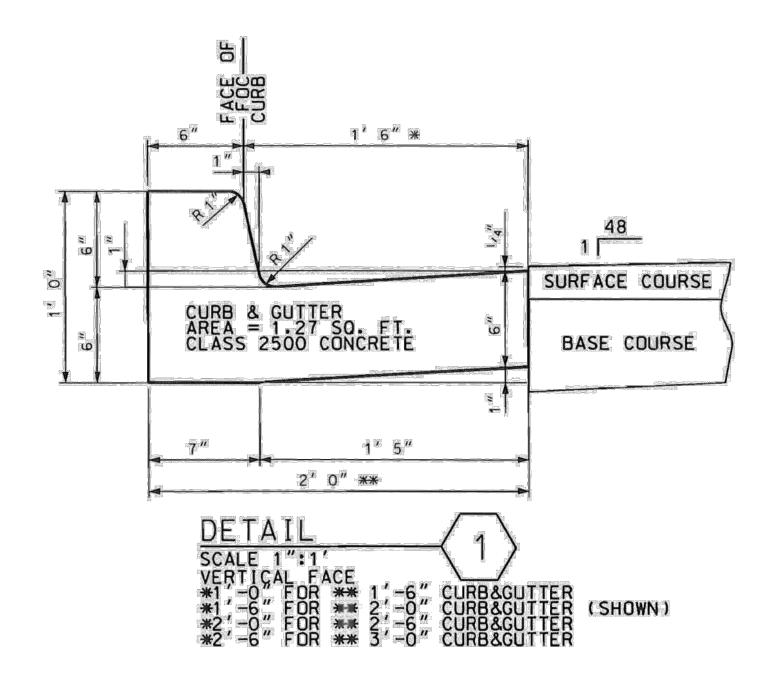
SCDOT DETAILS

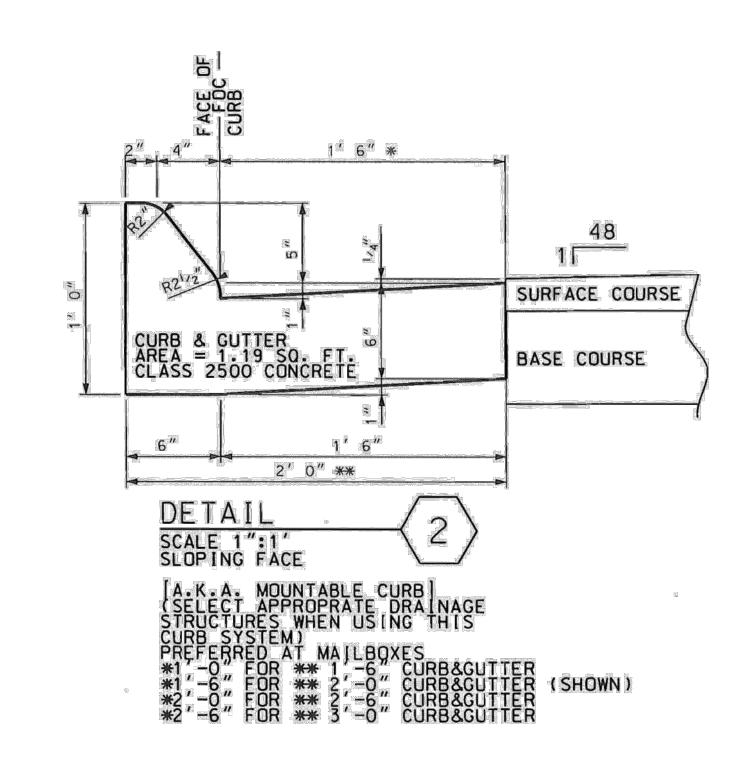
SCDOT DETAIL 815-605-30 ROLLED EROSION CONTROL PRODUCT

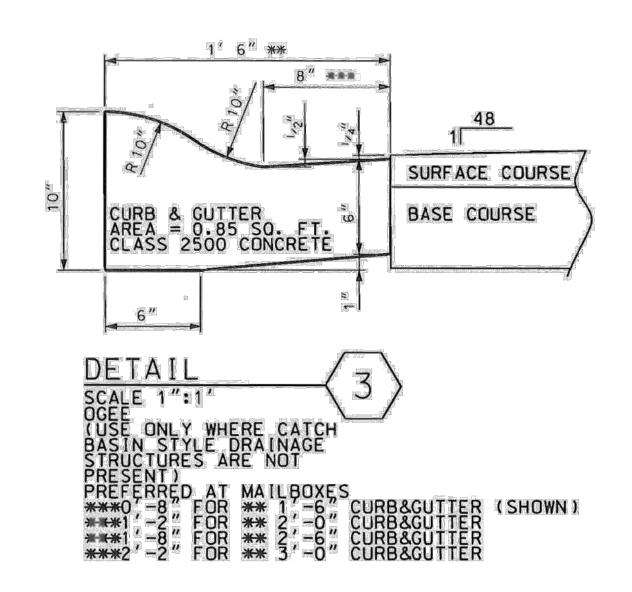


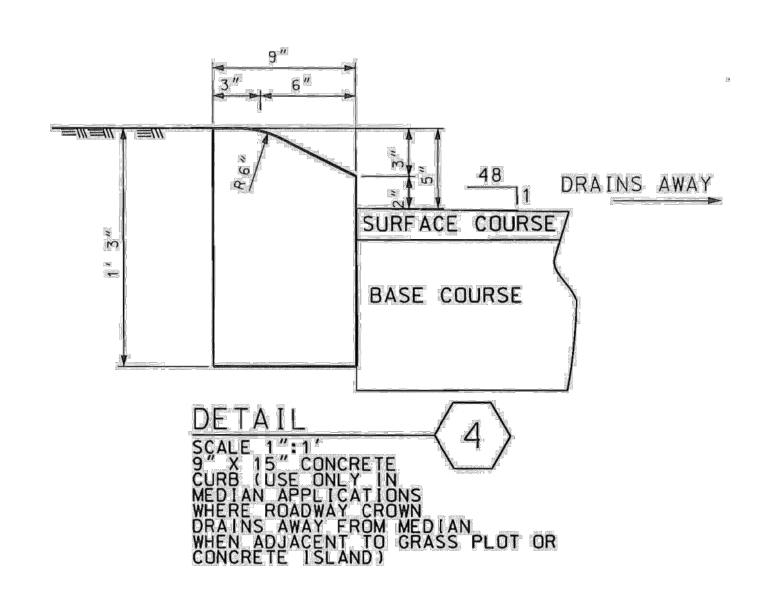












NOTES:

1. USE CONCRETE CURB AND GUTTER WITH VERTICAL FACE UNLESS
OTHERWISE NOTED.

2. USE MINIMUM CLASS 2500 CONCRETE.

3. USE 3' TRANSITION AT END OF RADII ON INTERSECTING STREETS AND WHERE CURB IS 6 FEET OR GREATER FROM MAINLINE TRAVEL LANE.

4. USE 10' TRANSITION WHERE CURB IS LESS THAN 6 FEET FROM MAINLINE TRAVEL LANE.

5. INCLUDE COST OF WORK TO CONSTRUCT TRANSITIONS IN THE COST PER LF OF CURB AND GUTTER.

6. DEVELOP GUTTER SLOPE ON HIGH SIDE OF SUPERELEVATION AS SHOWN ON STANDARD DRAWING 150-205-00. EXCEPT ON OGEE CURB & GUTTER.

7. USE DETECTABLE WARNINGS AS REQUIRED ON STANDARD DRAWINGS 720-905-XX.

8. WHEN MAILBOXES ARE PRESENT. USE APPROPRIATE CURB TYPE. INSTALL MAILBOXES BEHIND CURB OR SIDEWALK AS SHOWN ON STANDARD DRAWING 203-905-00.

9. PAY ITEMS (MAY NOT BE COMPLETE LIST OF PAY ITEMS):
FOR CURB & GUTTER
7203110 CONCRETE CURB AND GUTTER (1'-6") VERTICAL FACE
7203210 CONCRETE CURB AND GUTTER (2'-0") VERTICAL FACE
7203240 CONCRETE CURB AND GUTTER (2'-6") VERTICAL FACE
7203310 CONCRETE CURB AND GUTTER (3'-0") VERTICAL FACE
7203120 CONCRETE CURB AND GUTTER (1'-6") SLOPING FACE
7203220 CONCRETE CURB AND GUTTER (2'-0") SLOPING FACE
7203245 CONCRETE CURB AND GUTTER (2'-6") SLOPING FACE
7203320 CONCRETE CURB AND GUTTER (3'-0") SLOPING FACE
7203320 CONCRETE CURB AND GUTTER (3'-0") SLOPING FACE
7203130 CONCRETE CURB AND GUTTER (1'-6") OGEE
7203230 CONCRETE CURB AND GUTTER (2'-0") OGEE
7203230 CONCRETE CURB AND GUTTER (2'-6") OGEE
7203230 CONCRETE CURB AND GUTTER (2'-6") OGEE

FOR CURB ONLY
7201000 CONCRETE CURB (9"x 15")

PROJECT TITLE:

====LF

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PROJECT OWNER:

PUBLIC WORKS

AZALEA DRIVE SIDEWALK

REVEER GROUP

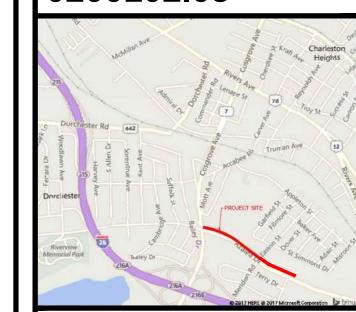
REVEER

GROUP, LLC

CHARLESTON COUNTY

PROJECT LOCATION: NORTH CHARLESTON, SC

PROJECT NUMBER 0200102.05



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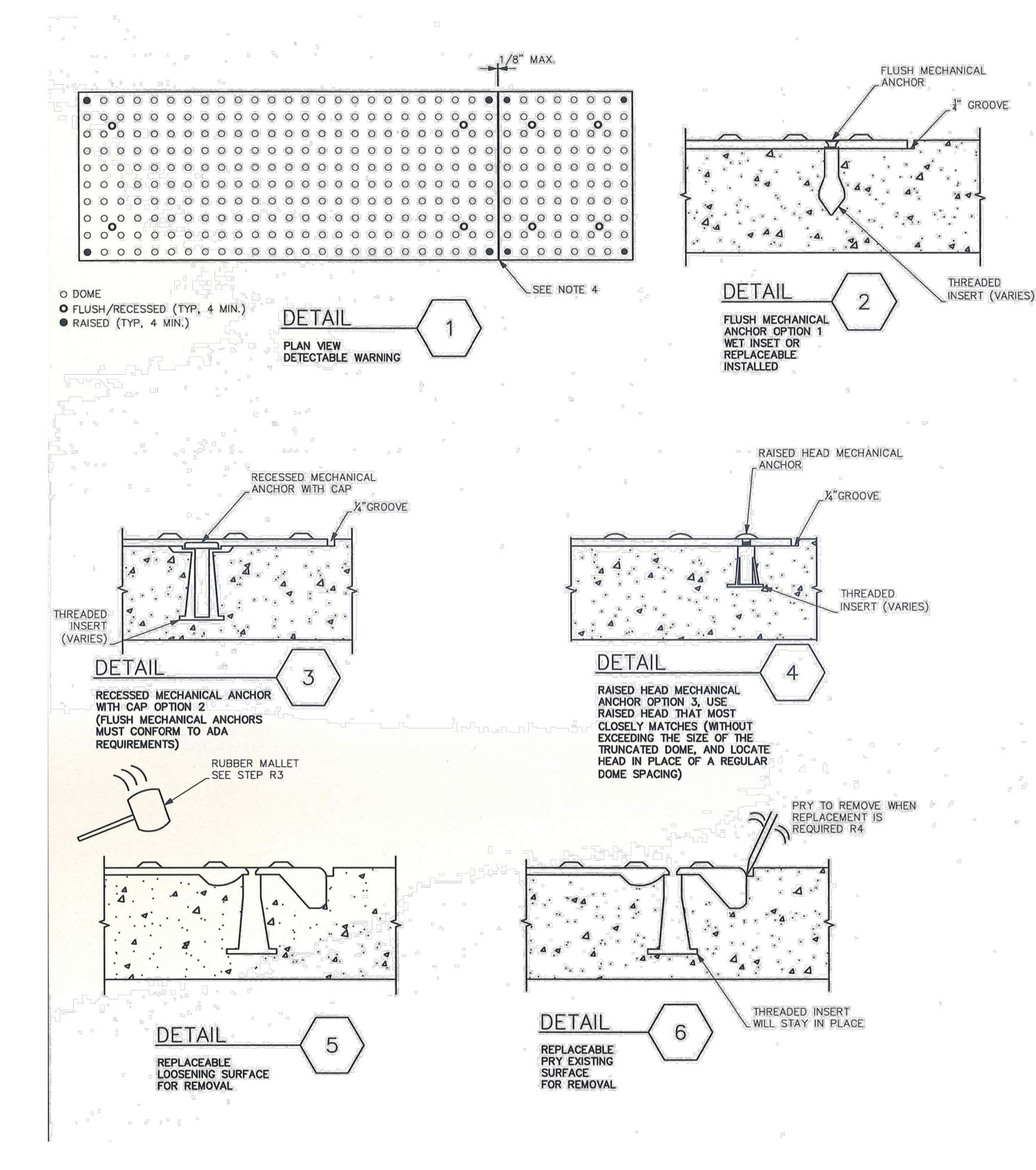
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02/02/2021

SCDOT DETAILS

16

SCDOT DETAIL 720-105-01 CONCRETE CURB AND GUTTER



INSTALLATION NOTES:

- 1. SEE SHEETS 720-901-XX FOR GENERAL NOTES. USE WET INSET STYLE DETECTABLE WARNINGS LISTED ON SCDOT QUALIFIED PRODUCT LIST 61 ONLY IN LOCATIONS WHERE NEW CONCRETE IS BEING POURED FOR RAMPS. DETAILS SHOWN MAY INCLUDE PROPRIETARY COMPONENTS, HOWEVER, ANY SYSTEM LISTED ON QPL61 AS WET INSET OR REPLACEABLE IS ACCEPTABLE FOR USE IN THESE CONDITIONS.
- THESE STANDARD DRAWINGS. WHERE CONFLICTS EXIST BETWEEN INSTALLATION PROCEDURES, PROVIDE A CERTIFICATION LETTER FROM THE MANUFACTURER STATING THE APPROPRIATE PROCEDURE(S) AND JUSTIFICATION THAT THE PROPOSED PROCEDURE WILL IMPROVE LONG TERM. PERFORMANCE. NOTE TO RCE: SUBMIT A COPY OF THE CERTIFICATION LETTER TO THE DESIGN STANDARDS OFFICE SO THAT FUTURE DRAWINGS CAN MINIMIZE CONFLICTS.
- 3. HAVE ALL MATERIALS NEEDED TO COMPLETE INSTALLATION AVAILABLE BEFORE PLACING CONCRETE.
- MINIMIZE THE USE OF FIELD CUT PIECES. UNLESS SPECIFIED IN THE PLANS OR SPECIAL PROVISIONS, INSTALL ALL FIELD CUT EDGES ALONG ONLY ONE SIDE OF THE WARNING PATTERN CUT WARNING MATERIAL TO MEET THE REQUIRED GEOMETRY OF THE RAMP WHILE MINIMIZING THE CUTTING OF DOMES.
- 5. ATTACH AND TIGHTEN AT LEAST FOUR (4) MECHANICAL ANCHORS WITH THREADED INSERTS INTO THE DETECTABLE WARNING MATERIAL. USE ADDITIONAL MECHANICAL ANCHORS AND THREADED INSERTS IF SPECIFIED BY THE MANUFACTURER OR REQUIRED BY THE ENGINEER.
- 6. CONSTRUCT LANDING AS SHOWN ON APPROPRIATE STANDARD DRAWING FOR THE RAMP STYLE SELECTED.
- WORK PANELS DOWNWARD AS NECESSARY INTO THE LOCATION SHOWN.
- EVENLY PRESS THE ASSEMBLED WARNING MATERIAL INTO THE CONCRETE UNTIL THE TILE IS FLUSH WITH THE CONCRETE SURFACE.
- 9. TAP USING A RUBBER MALLET TO REMOVE AIR POCKETS. FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS TO REMOVE AIR POCKETS AROUND THREADED INSERTS AND UNDER WARNING MATERIAL. FINISHED PRODUCT SHOULD HAVE NO BUBBLES OR AIR POCKETS THAT MOVE WHEN STEPPED ON.
- 10. SCORE A 1/2" DEEP AND WIDE GROOVE AROUND THE DETECTABLE WARNING.
- 11. APPLY WEIGHTS IF NECESSARY TO KEEP DETECTABLE WARNING FLUSH WITH TOP OF CONCRETE.
- 12. CLEAN SURFACE OF LOOSE CONCRETE AND DEBRIS. IF PRESENT, REMOVE PROTECTIVE COVERING FROM DETECTABLE WARNING MATERIAL.

REPLACEMENT NOTES:

- R1. VERIFY THAT EXISTING WARNING MATERIAL IS A REPLACEABLE SYSTEM. IF EXISTING WARNING MATERIAL IS DAMAGED, ORDER REPLACEMENT MATS FROM SAME MANUFACTURER AS EXISTING INSTALLATION.
- R2. EXPOSE FASTENERS AND REMOVE.
- R3. TAP PERIMETER OF TILE WITH A RUBBER MALLET TO LOOSEN THE BOND OF DETECTABLE WARNING MATERIAL TO THE CONCRETE.
- R4. PRY DETECTABLE WARNING MATERIAL FROM CONCRETE.
- R5. REPAIR ANY DAMAGED CONCRETE. IF NEEDED, REMOVE AREA LARGE ENOUGH TO INSTALL A NEW REPLACEABLE DETECTABLE WARNING MATERIAL.
- R6. VACUUM OR SWEEP ALL DEBRIS FORM CREVICES.
- R7. CUT NEW DETECTABLE WARNING MATERIAL IF NEEDED TO MATCH EXISTING CUT.
- R8. PLACE NEW DETECTABLE WARNING INTO EXISTING SPACE.
- R9. INSERT REPLACEMENT ANCHORS AND HAND TIGHTEN. GENTLY APPLY PRESSURE TO SEAT TILE IN RECESS, FULLY TIGHTEN BOLTS.
- R10. INSTALL BOLT COVERS IF APPLICABLE.



REVEER GROUP, LLC No. 5324

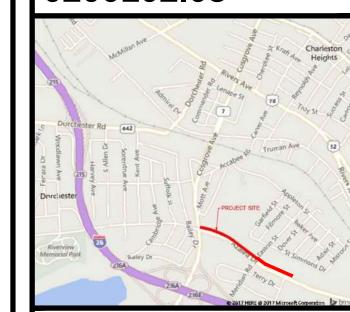
PROJECT OWNER: **CHARLESTON COUNTY** PUBLIC WORKS

PROJECT TITLE:

AZALEA DRIVE SIDEWALK

PROJECT LOCATION: NORTH CHARLESTON, SC

PROJECT NUMBER 0200102.05



FOR CONSTRUCTION

ORIGINAL SUBMISSION: 03/16/2018 REVISIONS: NO. DATE DESCRIPTION

1 05/17/2018 SCDOT COMMENTS 11/05/2019 SCDOT COMMENTS

3 01/12/2020 SCDOT/COUNTY REVIEW 03/06/2020 SCDOT/COUNTY REVIEW 05/20/2020 SCDOT COMMENTS

6 07/14/2020 SLOPE PERMISSIONS REVISION
7 08/13/2020 RIGHT-OF-WAY REVISIONS 8 10/19/2020 MS4 REVISIONS 02/02/2021 SCDOT & QUANTITY REVISIONS

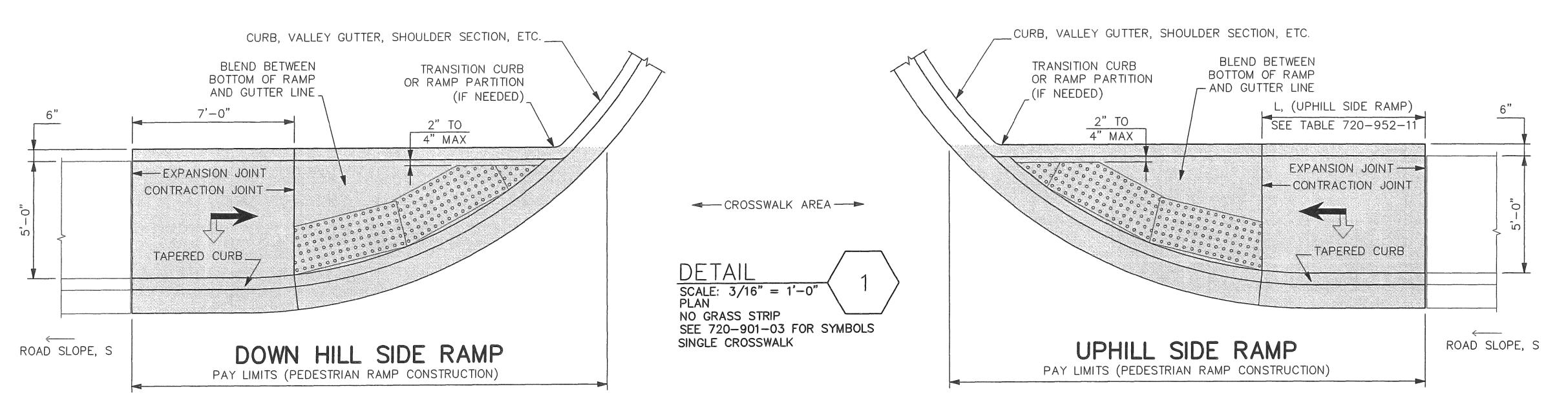
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02/02/2021

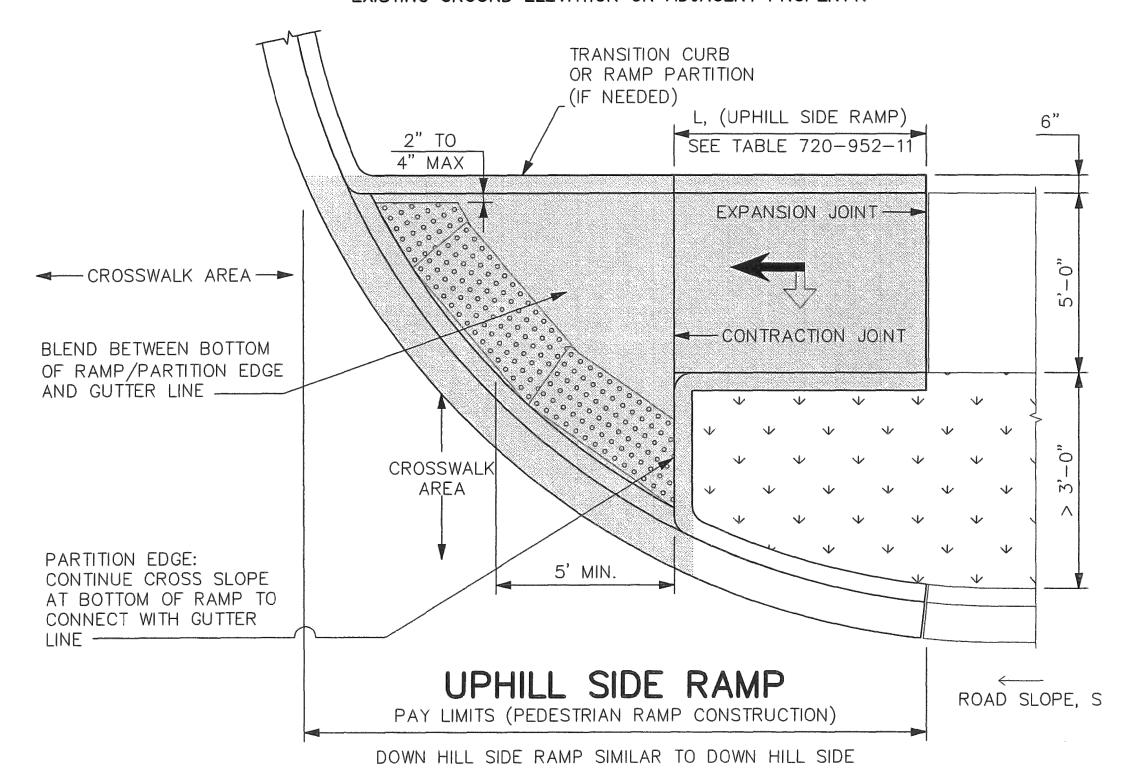
SCDOT DETAILS

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SCDOT DETAIL 720-910-01 DETECTABLE WARNING MATERIAL



- 1. SEE STANDARD DRAWINGS 720-901-XX FOR GENERAL NOTES AND 720-901-03 FOR SYMBOLS.
- 2. SEE STANDARD DRAWINGS 720-91X-XX FOR INSTALLATION PROCEDURES FOR DETECTABLE WARNING SURFACE MATERIALS.
- 3. SEE STANDARD DRAWINGS 720-929-XX FOR VARIANTS TO THIS STANDARD.
- 4. QUANTITIES IN TABLE 720-952-11 ASSUME THAT DOWN HILL SIDE RAMP IS ALWAYS AT LEAST 7'-0" LONG.
- 5. CONSTRUCT RAMP PARTITION AT ALL LOCATIONS WHERE ROADWAY DRAINAGE COULD DISCHARGE ONTO ADJACENT PROPERTY. CONSTRUCT RAMP PARTITION IF NEEDED TO RETAIN EXISTING GROUND ELEVATION ON ADJACENT PROPERTY.



DETAIL

SCALE: 3/16" = 1'-0"

PLAN

> 3'-0" GRASS STRIP

SEE 720-901-03 FOR SYMBOLS

CONSIDER USING PERPENDICULAR RAMP TO CROSS MAIN LINE
DUAL CROSSWALK

RAMP IN DETAIL NO. 1

TABLE: 720-952-11 (SEE 720-929-01, X=10')

ROAD SLOPE, S (%)

L, (UPHILL SIDE RAMP), [FT] $S \le 1\%$ 7'-0" $1\% > S \le 3\%$ 10'-0" S > 3% 15'-0"

REVEER GROUP

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No. 5324

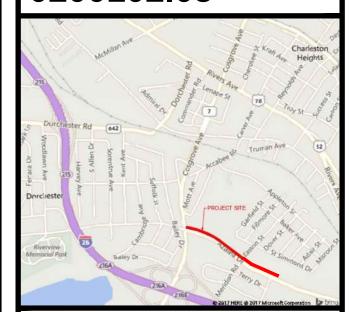
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 OUNCLOSED | SCDOT & QUANTITY REVISIONS

MRS/JSM

APPROVED BY:
PAF

ARCH FULL BLEED D (24.00 X 36.00 INCHES)

PAF

DATE:
02/02/2021

SCDOT DETAILS

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SCDOT DETAIL 720-952-11 PARALLEL RAMP

SCALE: NTS