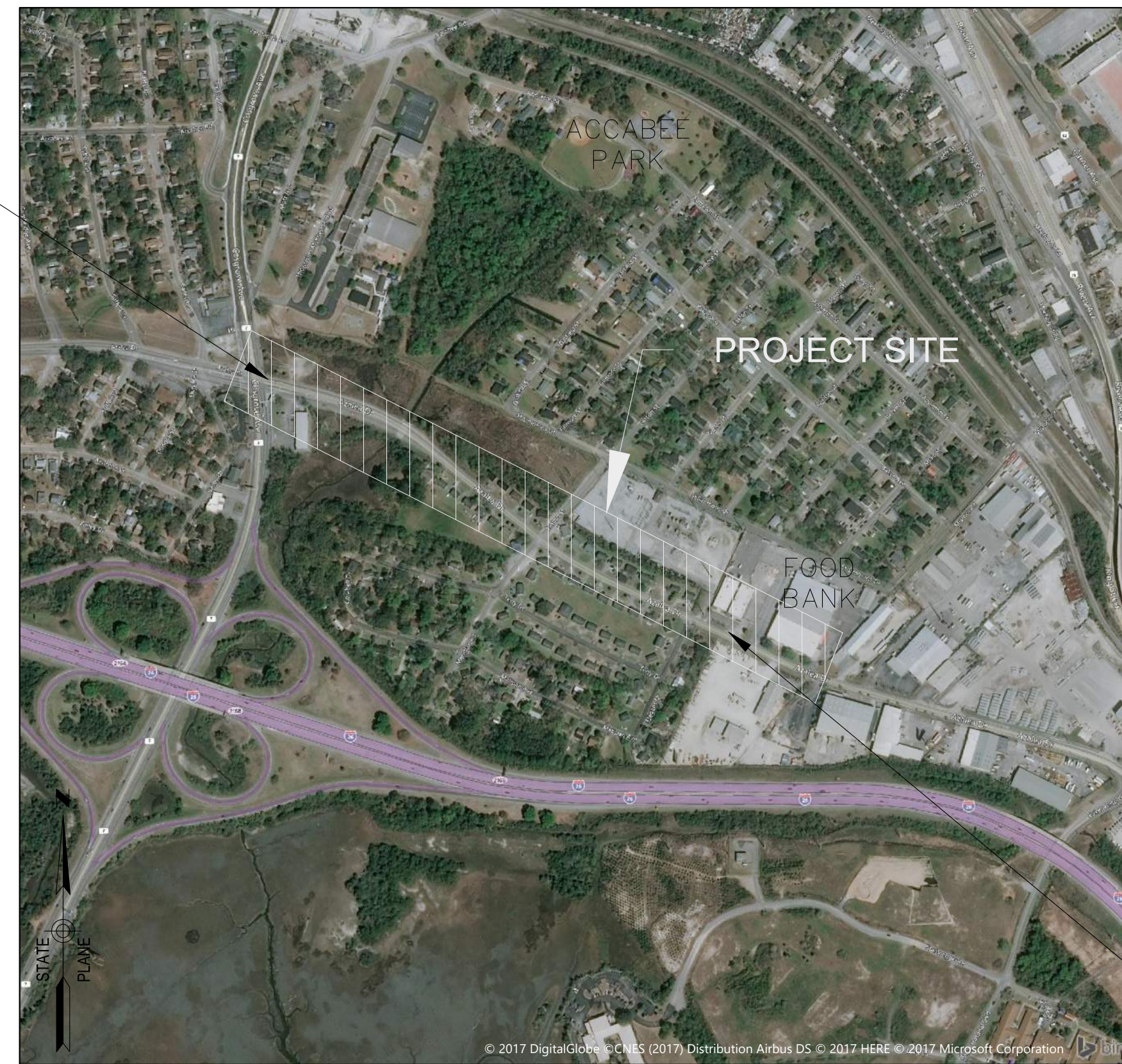


PROPOSED PLANS FOR AZALEA DRIVE SIDEWALK

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

FOR:
CHARLESTON COUNTY PUBLIC WORKS

LOCATION:
NORTH CHARLESTON



LOCATION MAP
SCALE: 1" = 500'

PROJECT INFORMATION

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

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

SITE ZONING:
N/A

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 = 0.9 AC.

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

No

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.

NOTE: EXCEPT AS MAY OTHERWISE BE SPECIFIED ON THE PLANS OR IN THE SPECIAL PROVISIONS, ALL MATERIALS AND WORKMANSHIP ON THIS PROJECT 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 LETTING.

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

CURRENT ADT: 10,000
20 YEAR PROJECTION: 14,800 (@2%)
PERCENTAGE OF TRUCKS: 5%

NPDES DATA

Disturbed Area = 0.9 Acres
Project Area = 1.1 Acres

Approximate Location of Project Is:

Begin
Latitude 32° 50' 49.3" N
Longitude 79° 58' 45.6" W

End
Latitude 32° 50' 38.9" N
Longitude 79° 58' 23.7" W

INDEX LAYOUT SHEETS

SHEET NO.	DESCRIPTION	SHEET SUBTOTALS
1	TITLE AND INDEX SHEET	1
IL1	SHEET LAYOUT	1
2	SUMMARY OF ESTIMATED QUANTITIES	1
3, 3A	TYPICAL SECTIONS	2
4	PROPERTY STRIP MAP	1
4A	ROW DATA TABLE	1
5	GENERAL NOTES	1
5A	REFERENCE DATA	1
6-10	PLAN AND PROFILE SHEETS	5
11-27	DETAILS	17
X1-X9	CROSS SECTIONS	9

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

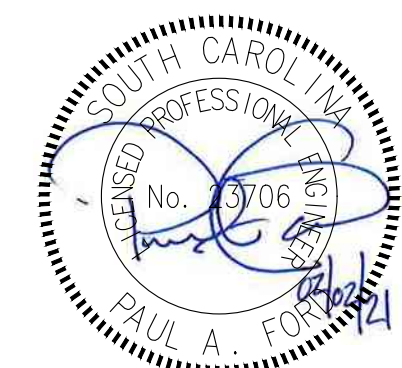
PROJECT DESCRIPTION:

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.

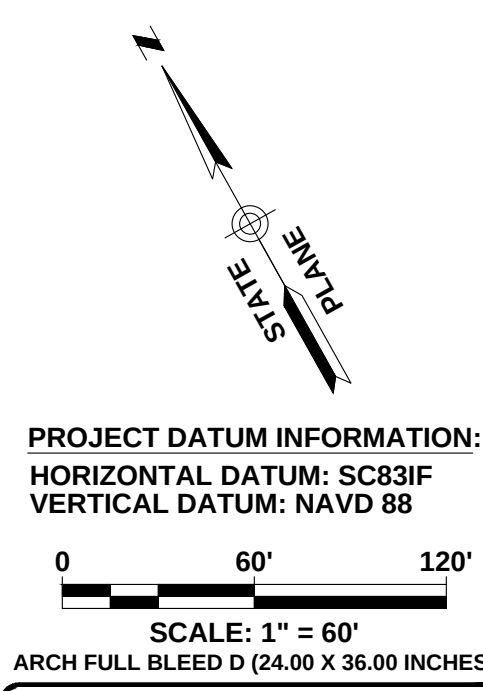
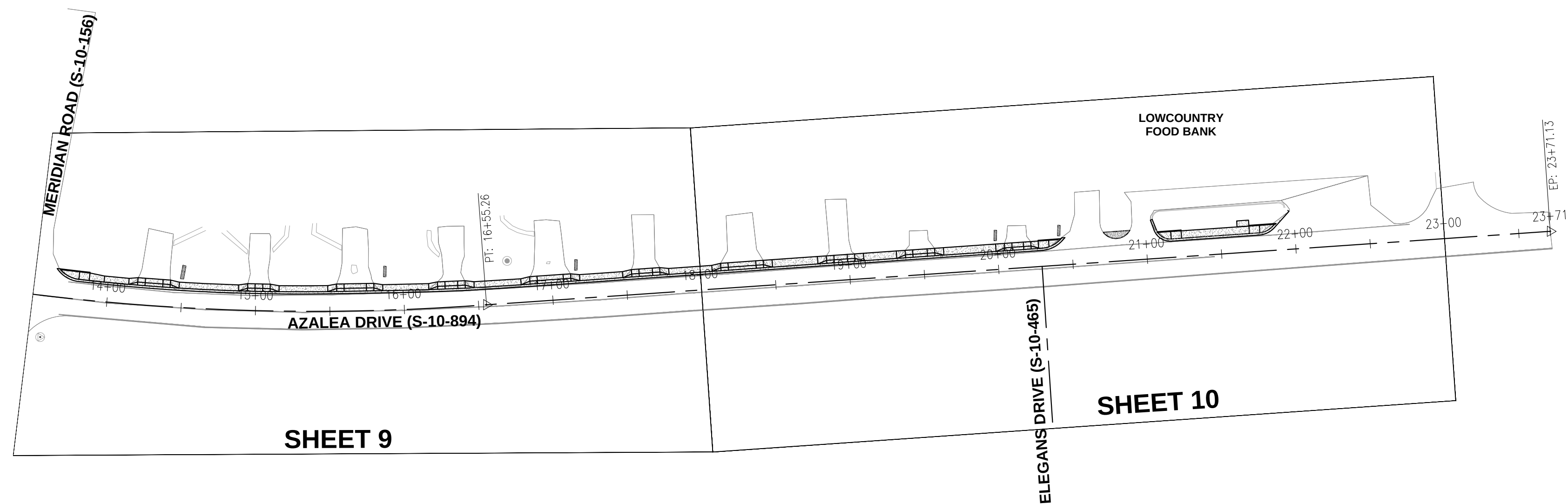
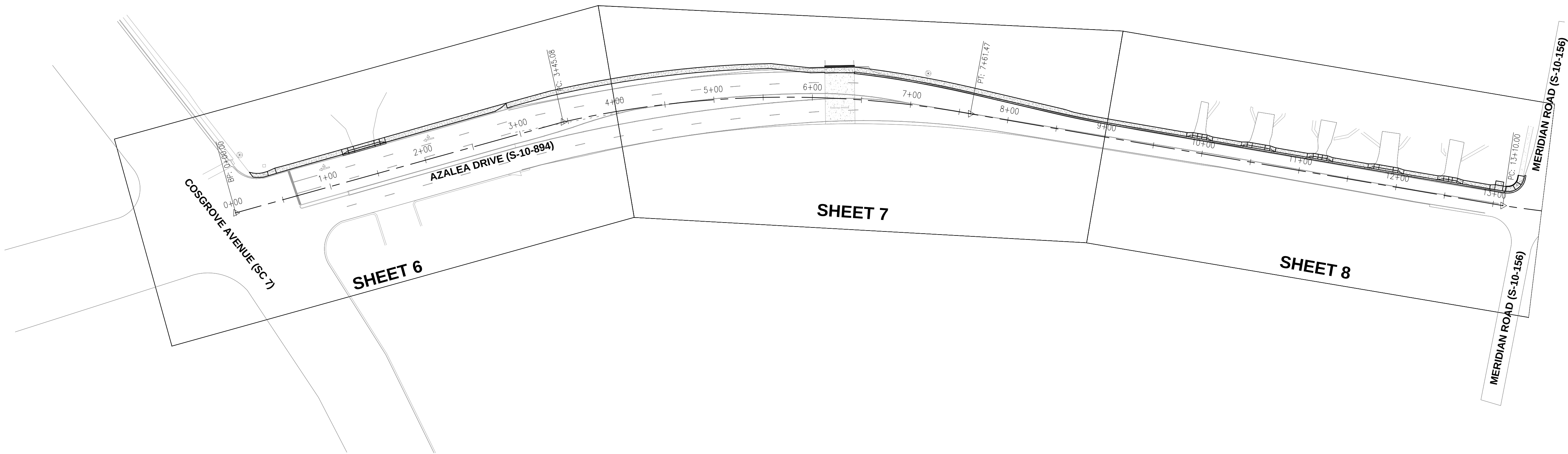


Know what's below.
Call before you dig.

Engineer of Record



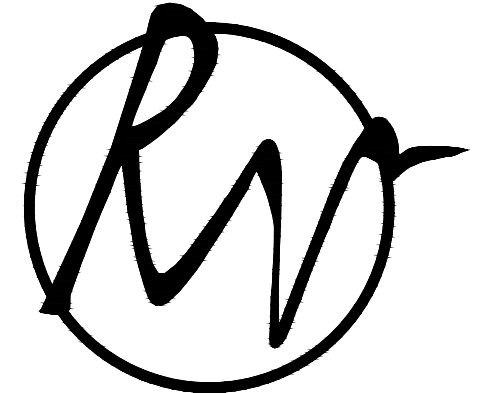
THESE DRAWINGS AND THE DESIGN THEREON ARE THE PROPERTY OF REVEER GROUP, LLC AND MAY NOT BE USED IN WHOLE OR IN PART WITHOUT WRITTEN CONSENT OF THE ENGINEER. ANY INFRINGEMENT WILL BE SUBJECT TO LEGAL ACTION.



PROJECT DATUM INFORMATION:
 HORIZONTAL DATUM: SC83IF
 VERTICAL DATUM: NAVD 88

S:\200102.05 - Azalea Drive Sidewalk - Documents\2 - Design\CAD\C3D\Plan Sheets\Azalea SW-Plan and Profile Sheets.dwg, 2/4/2021, PFORD

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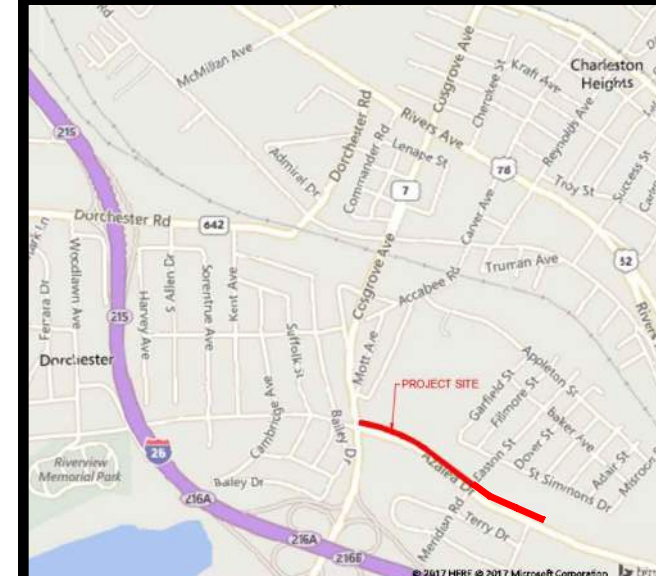
SOUTH CAROLINA
 REVEER GROUP, LLC
 No. 5324
 GREAT FLORIDA OF AUTHORIZATION

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

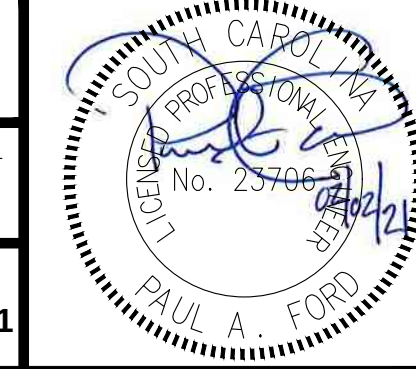
REVISIONS:

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7	08/13/2020	RIGHT-OF-WAY REVISIONS
8	10/19/2020	MS4 REVISIONS
9	02/02/2021	SCDOT & QUANTITY REVISIONS
10		

DRAWN BY:
MRS/JSM

APPROVED BY:
PAF

DATE:
02/02/2021



SHEET LAYOUT

IL1

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SUMMARY OF ESTIMATED QUANTITIES				
ITEM NO.	ITEM	QUANTITY		UNITS
		Phase 1 Cosgrove to Easton	Phase 2 Easton to Food Bank	
1031000	MOBILIZATION	1.0	1.0	LS
1032010	BONDS AND INSURANCE	1.0	1.0	LS
1050800	CONSTRUCTION STAKES, LINES & GRADES	0.5	0.5	LS
1071000	TRAFFIC CONTROL	0.5	0.5	LS
2011001	CLEAR & GRUB WITHIN R/W	0.31	0.15	ACRE
2024100	REMOVAL & DISPOSAL OF EXISTING CURB	45	0	LF
2025000A	SAWCUT OF EXISTING PAVEMENT (SHOULDER)	700	80	LF
2025000B	SAWCUT OF EXISTING PAVEMENT (DRIVEWAYS)	75	150	LF
2025000C	REMOVAL & DISPOSAL OF EXISTING PAVEMENT (SHOULDER)	60	10	SY
2025000D	REMOVAL & DISPOSAL OF EXISTING PAVEMENT (DRIVEWAYS)	180	370	SY
2031000A	UNCLASSIFIED EXCAVATION; CUT TO FILL	140	35	CY
2031000B	UNCLASSIFIED EXCAVATION; CUT TO OFFSITE DISPOSAL	0	33	CY
2033000	BORROW EXCAVATION	158	123	CY
4011004	LIQUID ASPHALT BINDER	0.50	1.04	TONS
4037210	DRIVEWAY PAVING SURFACE TYPE B	10	21	TONS
6020005	PERMANENT CONSTRUCTION SIGNS (GROUND MOUNTED)	90	90	SF
6091400	REMOVAL OF PAVEMENT MARKINGS (LINES)	480	0	LF
6271010	4" WHITE SOLID LINES THERMOPLASTIC - 125 MIL	450	0	LF
6271012	6" WHITE SOLID LINES THERMOPLASTIC - 125 MIL	0	225	LF
6271025	24" WHITE SOLID LINES THERMOPLASTIC - 125 MIL	0	100	LF
6513050	REMOVAL OF FLAT SHEET SIGN	1	0	EA
6888130	INSTALL FLAT SHEET FIXED SIZE & MESSAGE SIGN-GROUND MOUNT	20	0	SF
7052000	ALUMINUM BRIDGE RAILING	30	0	LF
7141112	15" RC PIPE CULVERT-CLASS III	61	98	LF
7141113	18" RC PIPE CULVERT-CLASS III	160	0	LF
7149999	CLEANING EXISTING PIPE AND DITCH	90	420	LF
7192010	DROP INLET (24"x24")	2	0	EA
7192091	TRENCHDRAIN-4" ID W/ 1.5' C&G	276	552	LF
7192205	24"x24" JUNCTION BOX	1	1	EA
7197120	ADJUST MANHOLE	1	0	EA
7197140	ADJUST UTILITY BOX	1	0	EA
7197141	ADJUST UTILITY VALVE BOX W/ COVER	1	0	EA
7201100	6" VERTICAL CONCRETE CURB	55	0	LF
7203110	18" CONCRETE CURB & GUTTER (VERTICAL)	396	135	LF
7204100	CONCRETE SIDEWALK (4" UNIFORM)	530	175	SY
7204600	CONCRETE SIDEWALK (6" UNIFORM)	58	0	SY
7204900	DETECTABLE WARNING SURFACE	14	70	SF
7205000	CONCRETE DRIVEWAY (6" UNIFORM)	103	180	SY
7209000	PEDESTRIAN RAMP CONSTRUCTION	20	47	SY
8041010	RIP-RAP (CLASS A)	9.2	0.0	TON
8042800	GEOTEXTILE FABRIC UNDER RIPRAP (CLASS 2)	10	0	SY
8100100	PERMANENT COVER	0.19	0.09	ACRE
8100200	TEMPORARY COVER	0.38	0.18	ACRE
8151150	TEMPORARY EROSION CONTROL BLANKET (ECB)	325	525	SY
8152007	SEDIMENT TUBES	60	100	LF
8153000	SILT FENCE	1,040	0	LF

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REVEER GROUP

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

DRAWN BY:
MRS/JSM

APPROVED BY:
PAF

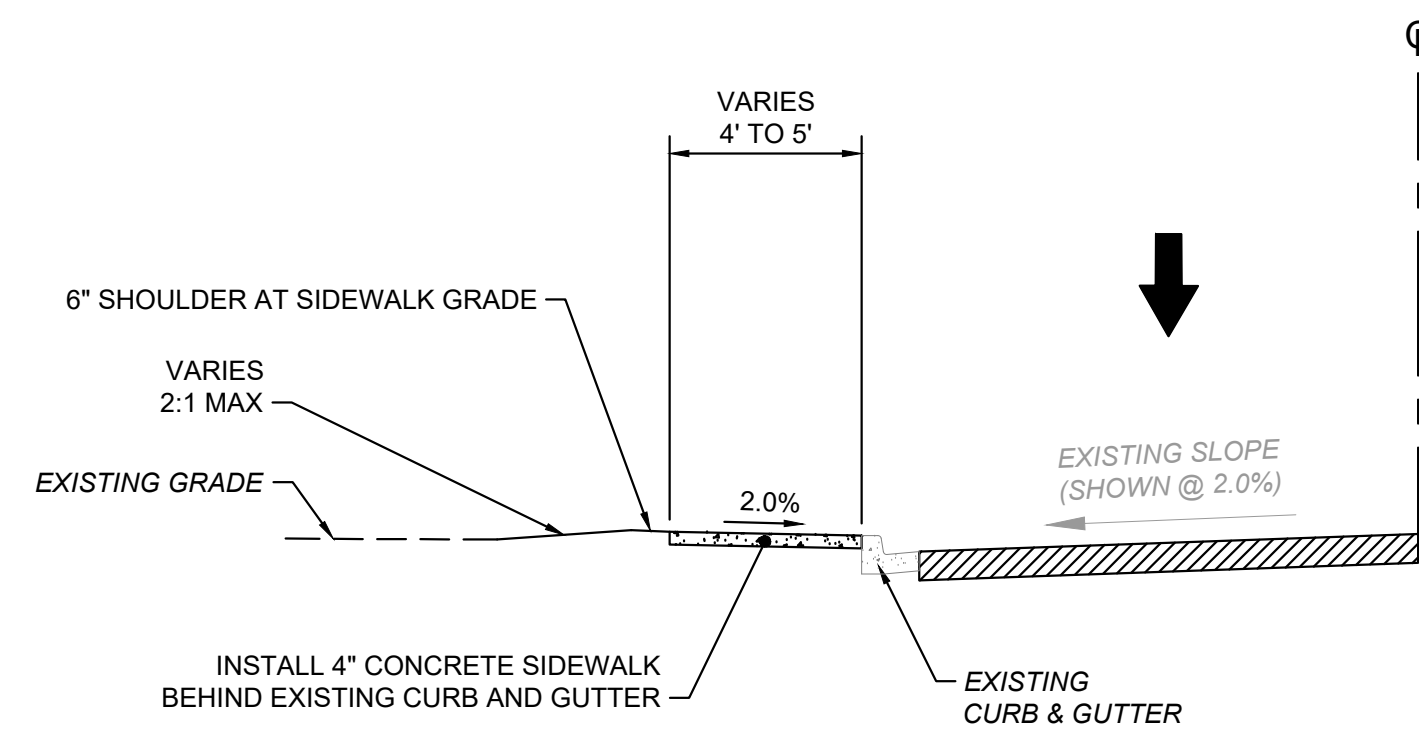
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SUMMARY OF
ESTIMATED QUANTITIES

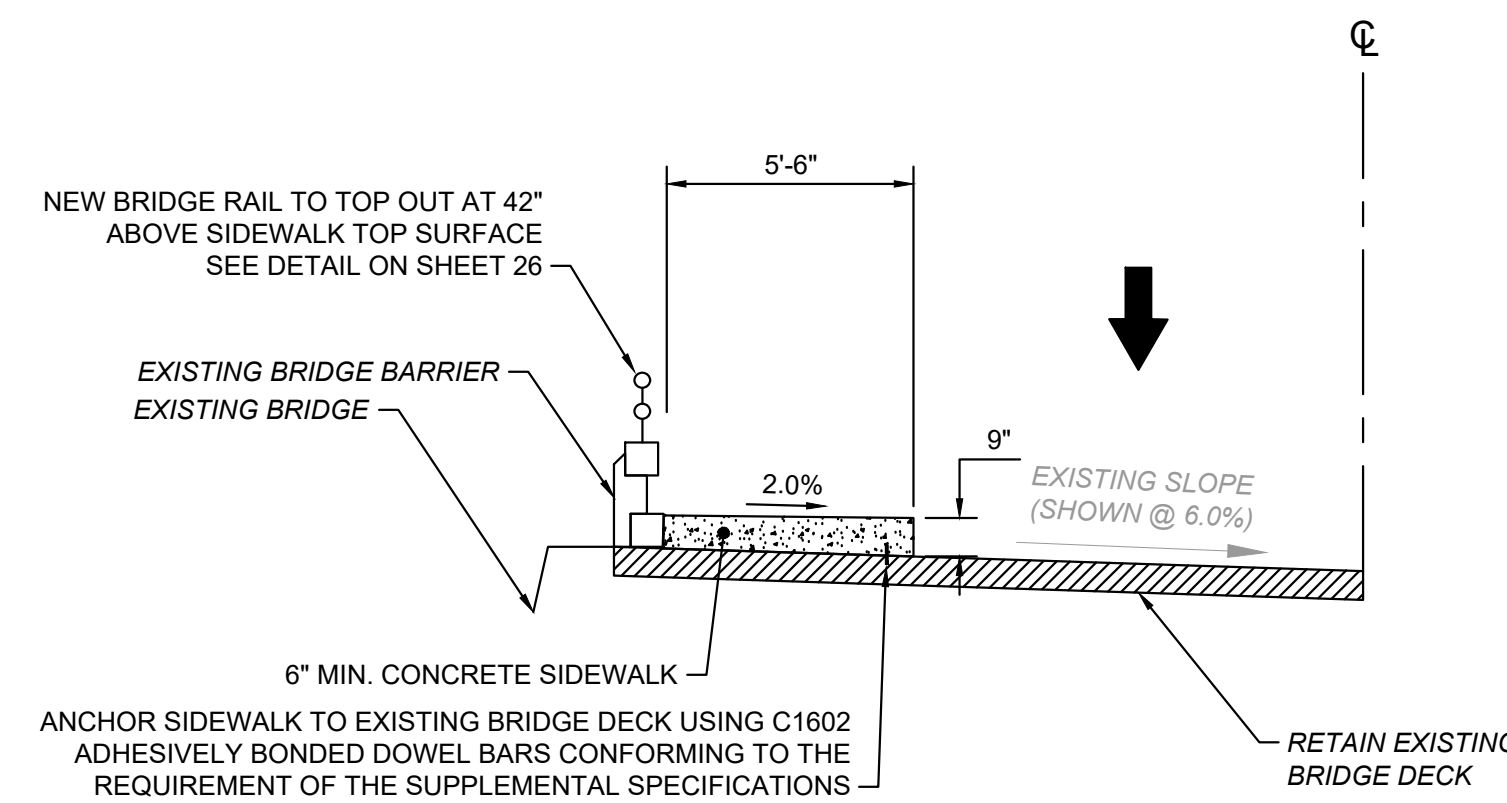
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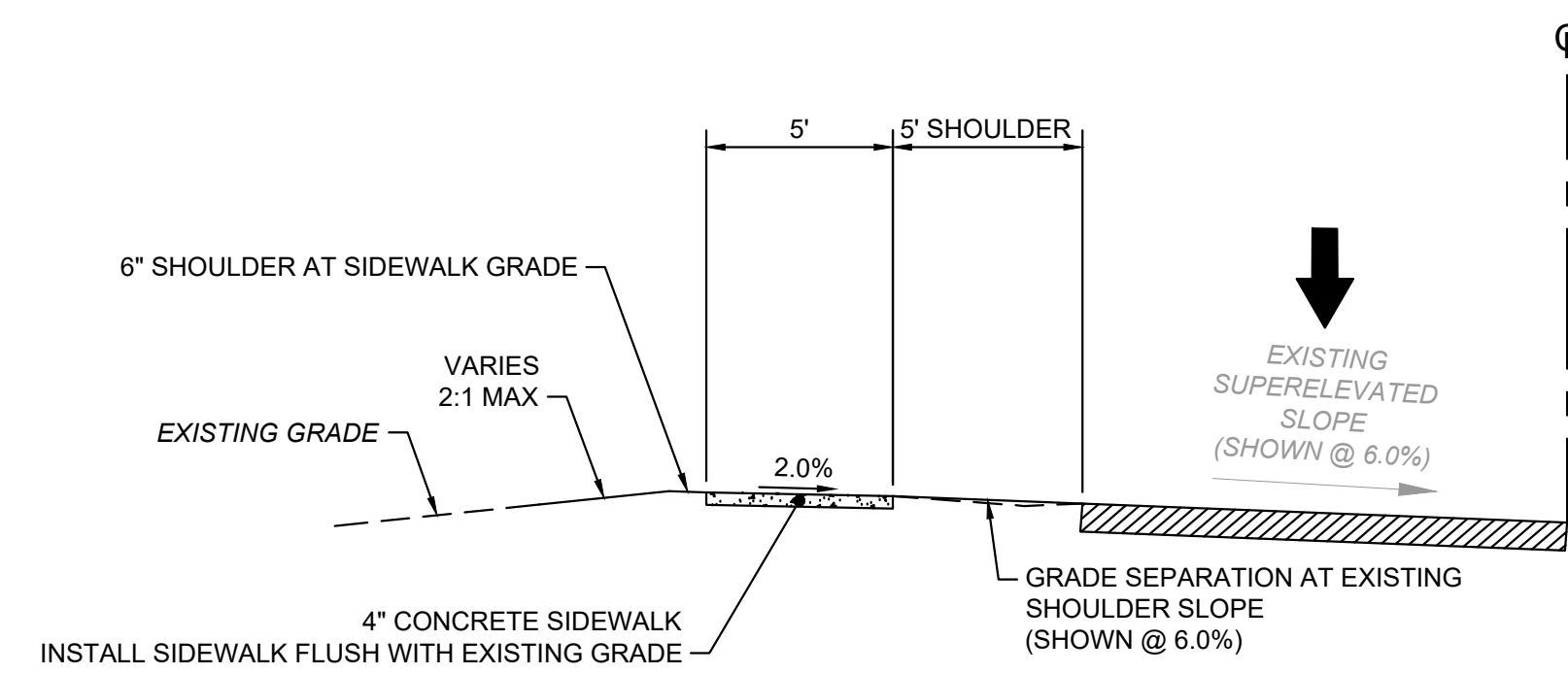
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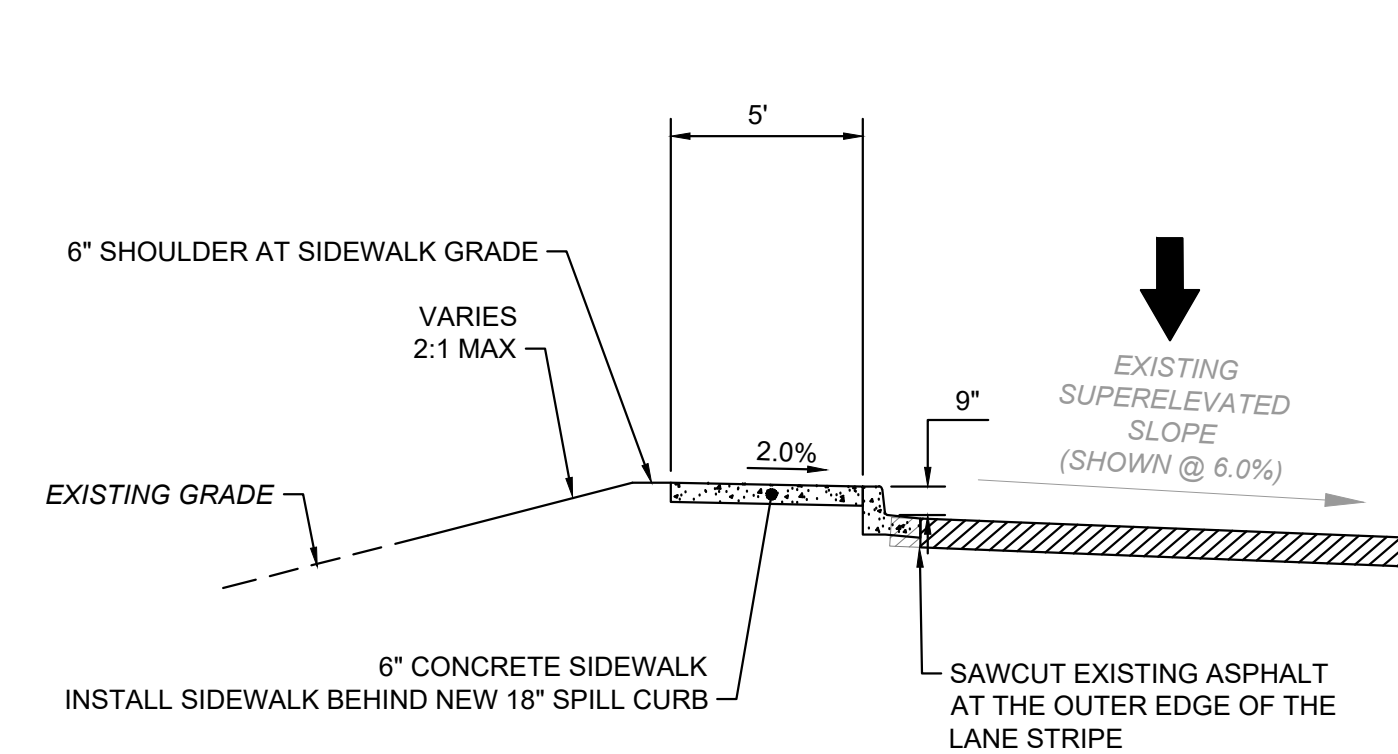
AZALEA DRIVE TYPICAL SECTION 1
STATION 0+24.35 TO STATION 2+99.53
N.T.S.



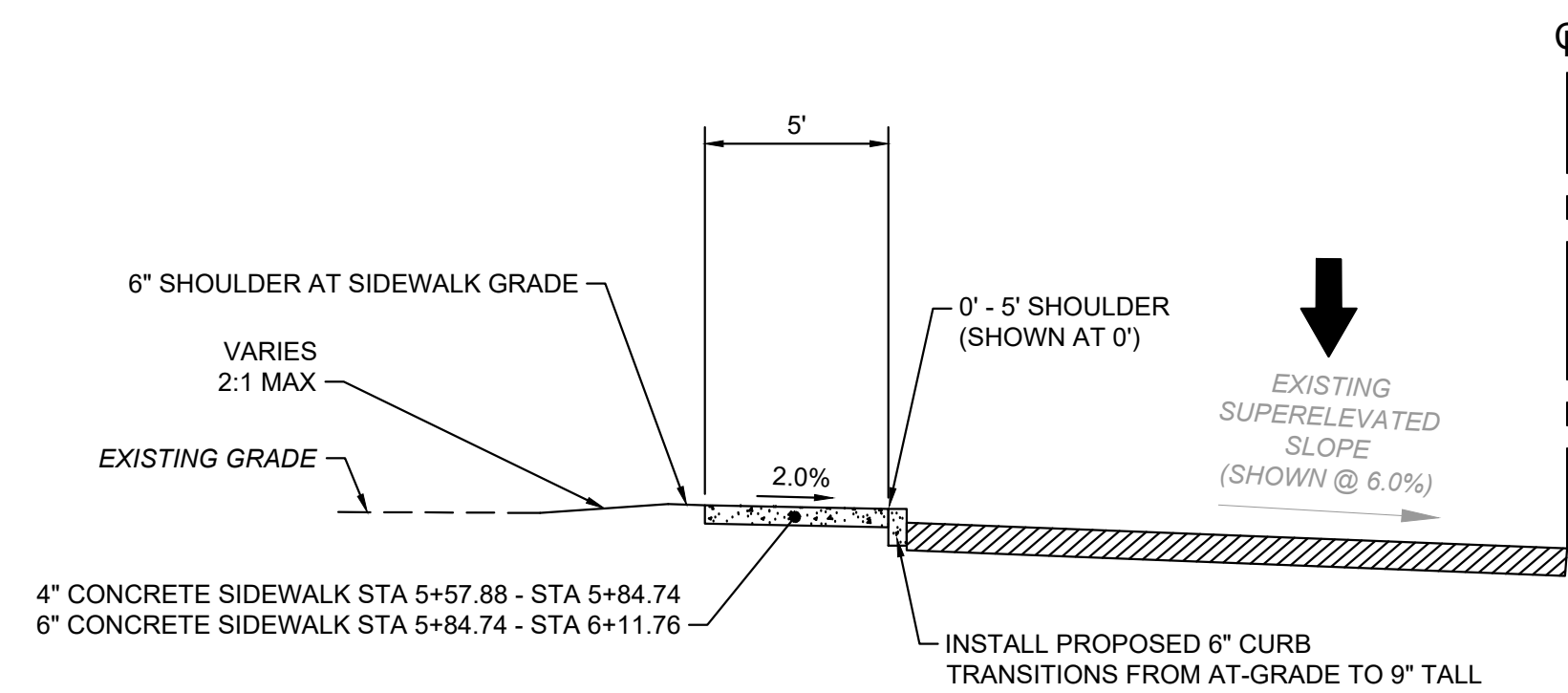
AZALEA DRIVE TYPICAL SECTION 4
STATION 6+11.76 TO STATION 6+41.06
N.T.S.



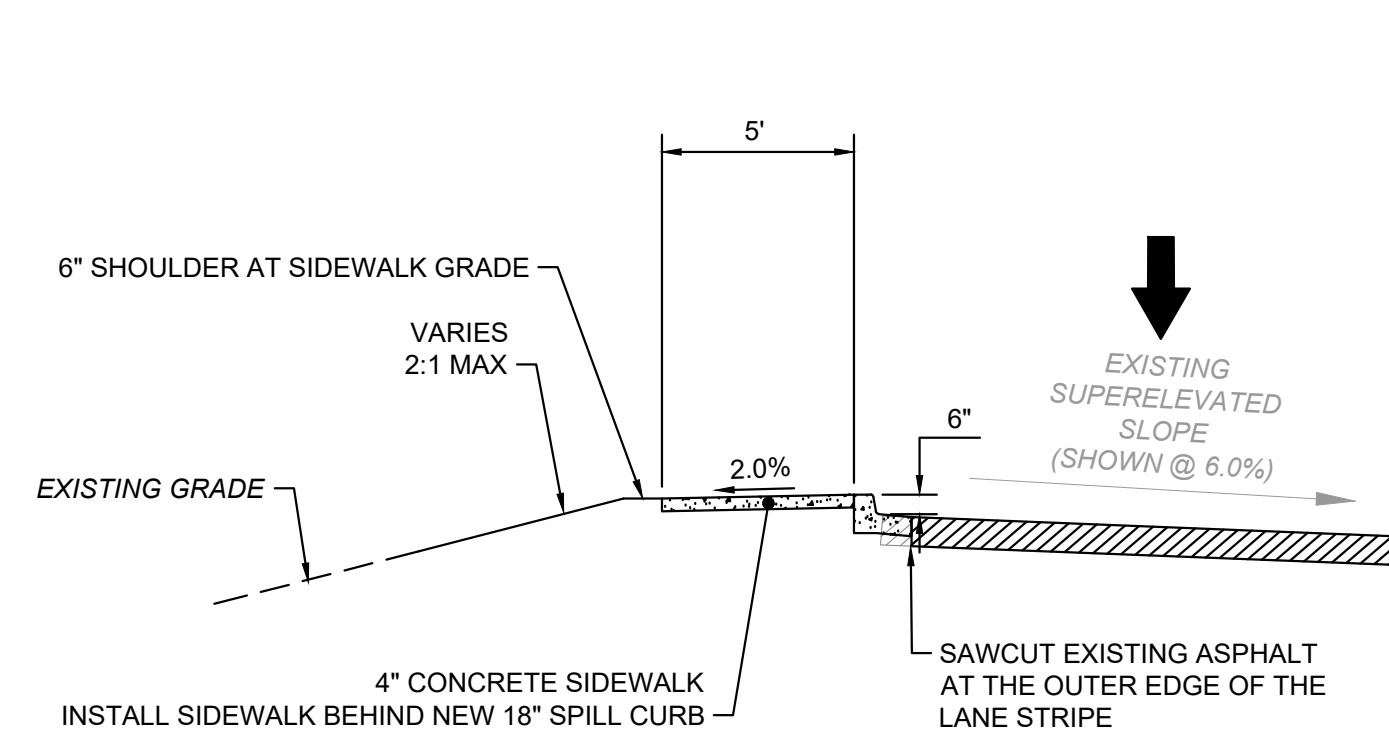
AZALEA DRIVE TYPICAL SECTION 2
STATION 3+39.51 TO STATION 5+57.88
N.T.S.



AZALEA DRIVE TYPICAL SECTION 5
STATION 6+41.06 TO STATION 6+71.06
N.T.S.



AZALEA DRIVE TYPICAL SECTION 3
STATION 5+57.88 TO STATION 6+11.76
N.T.S.



AZALEA DRIVE TYPICAL SECTION 6
STATION 6+81.06 TO STATION 8+55.00
N.T.S.

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 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.

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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

NO.	DATE	DESCRIPTION
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7	08/13/2020	RIGHT-OF-WAY REVISIONS
8	10/19/2020	MS4 REVISIONS
9	02/02/2021	SCDOT & QUANTITY REVISIONS
10		

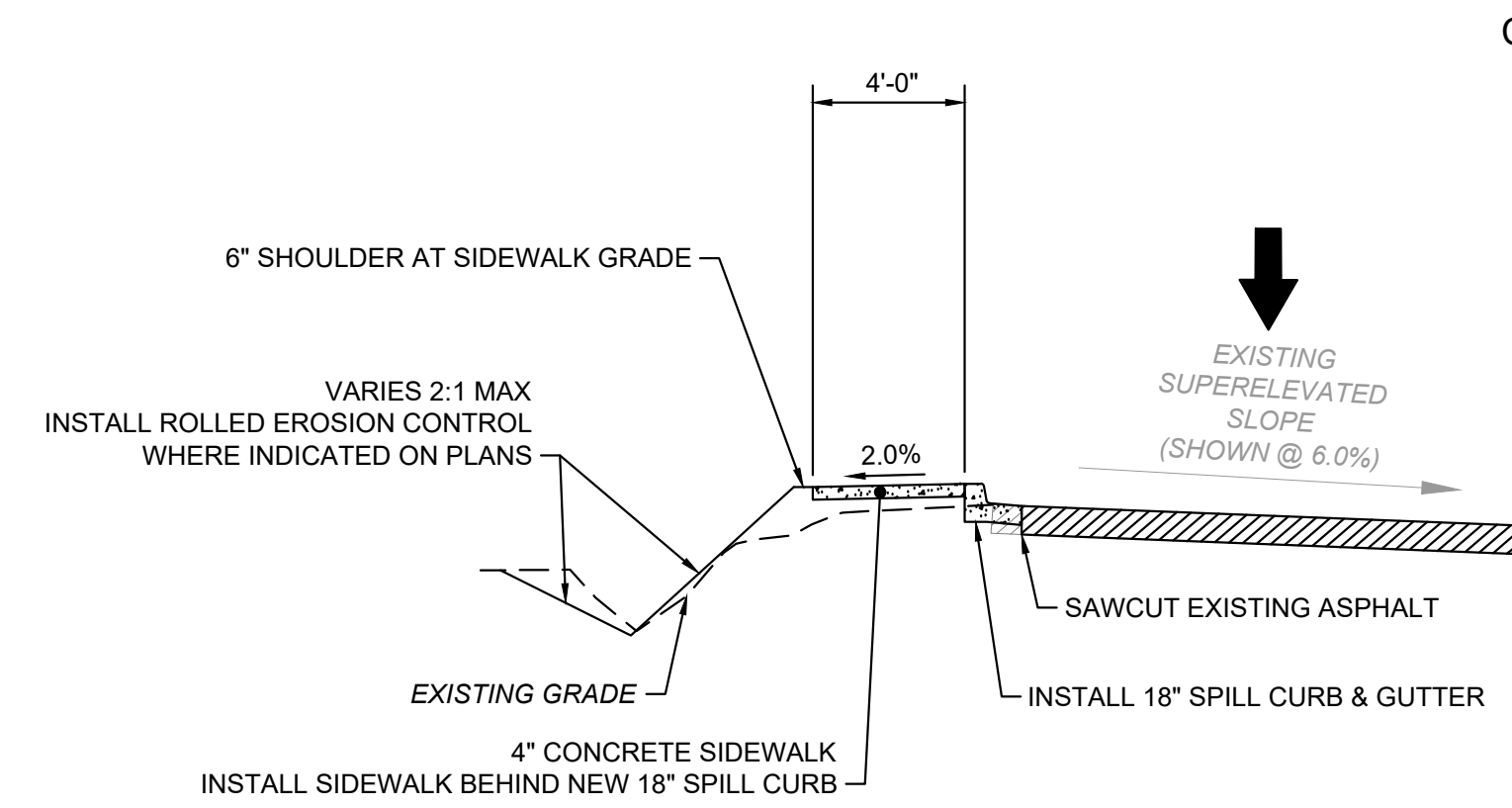
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MRS/JSM

APPROVED BY:
PAF

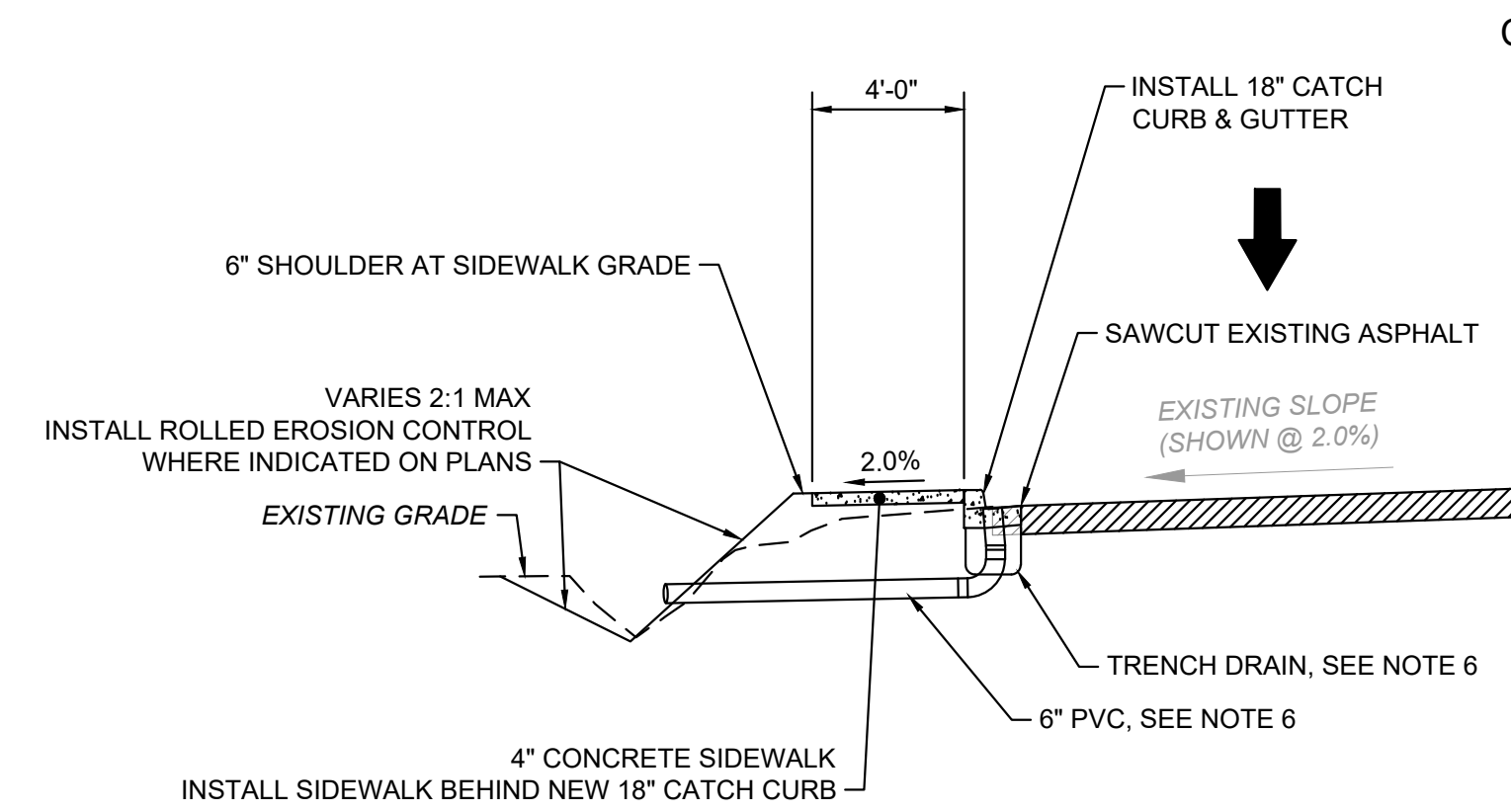
DATE:
02/02/2021

TYPICAL SECTIONS

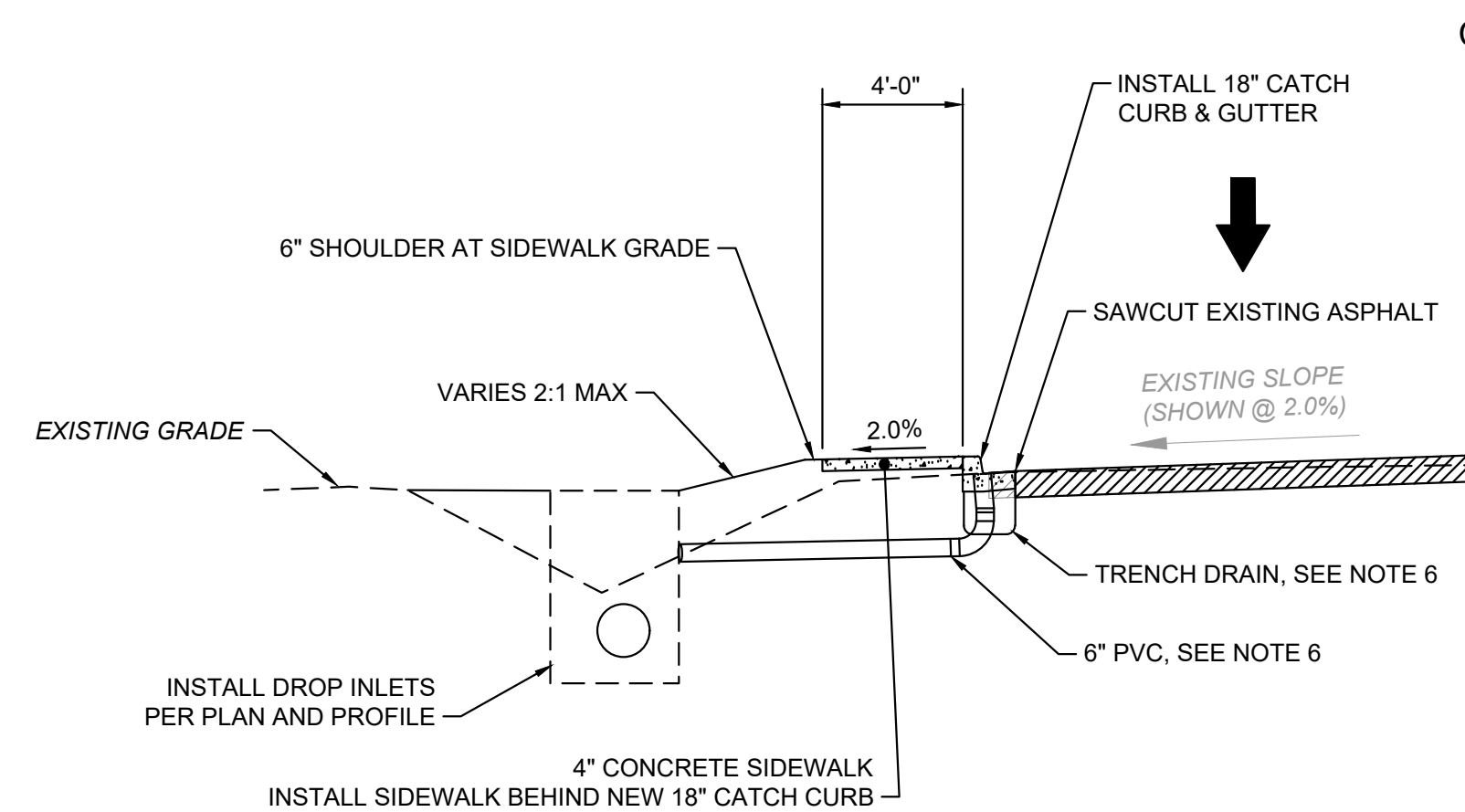
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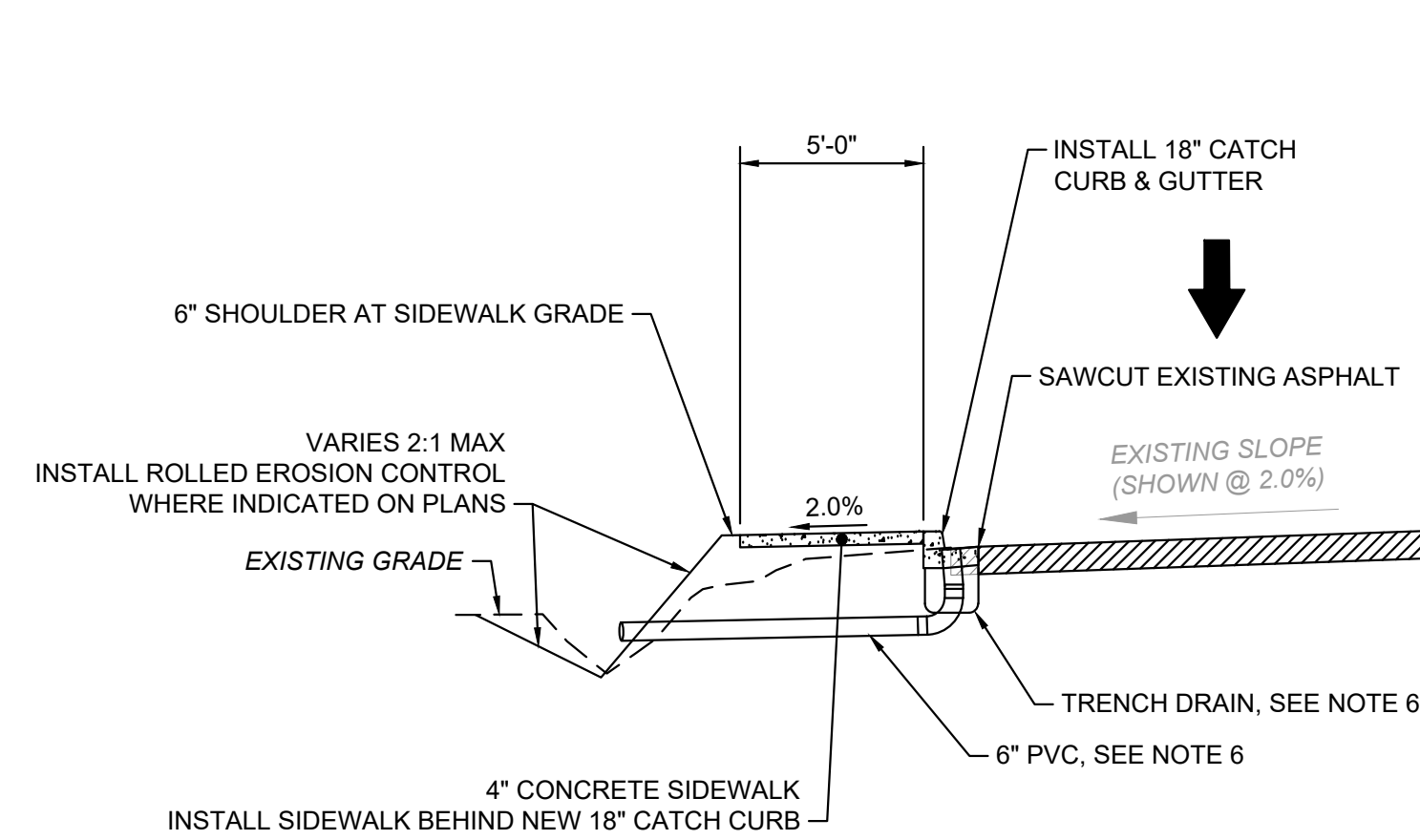
AZALEA DRIVE TYPICAL SECTION 7
STATION 8+65.00 TO STATION 9+21.91
 N.T.S.



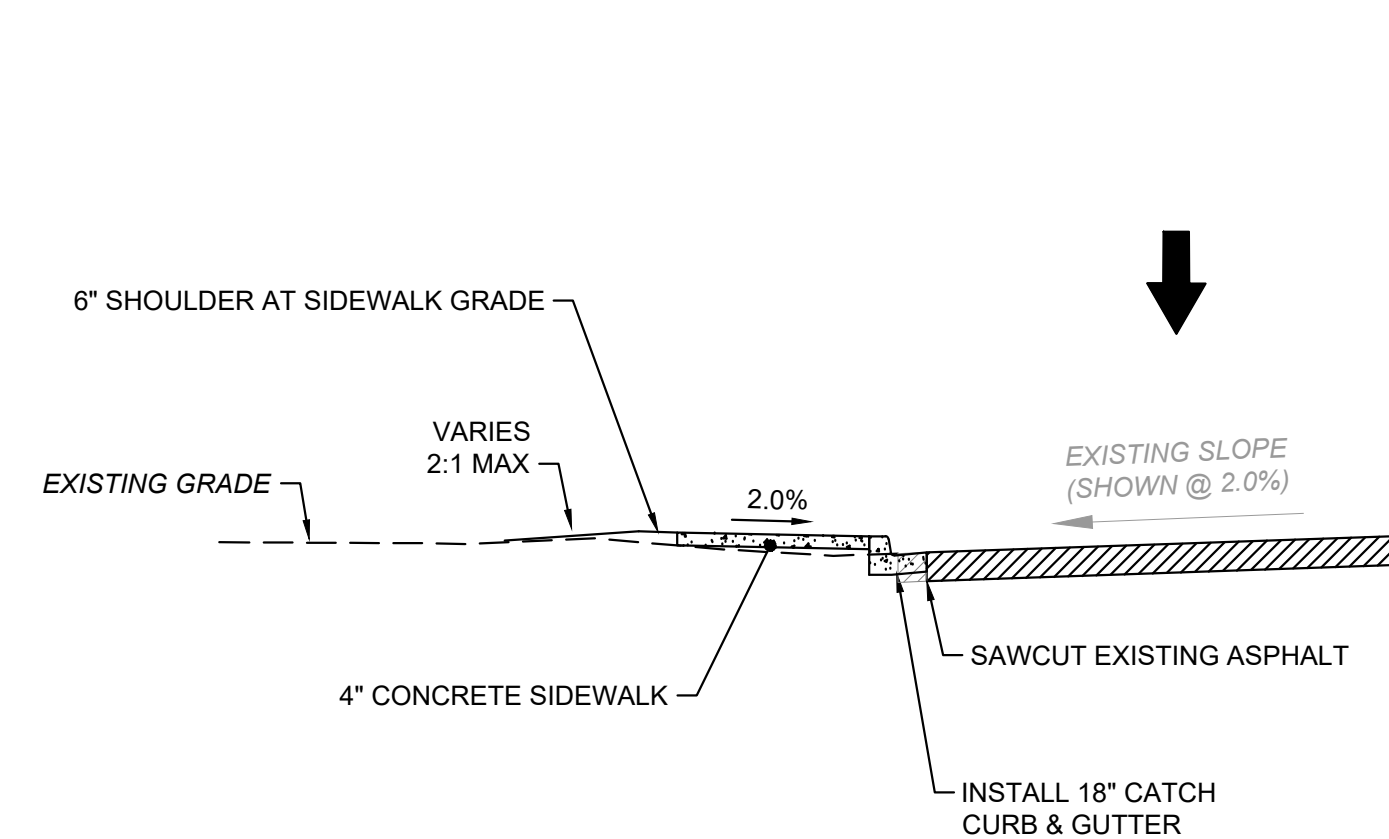
AZALEA DRIVE TYPICAL SECTION 8
STATION 9+31.91 TO STATION 9+29.96 AND
STATION 11+29.96 TO STATION 18+07.94
(EXCLUDING DRIVEWAYS)
 N.T.S.



AZALEA DRIVE TYPICAL SECTION 9
STATION 9+70.00 TO STATION 11+29.96
 N.T.S.



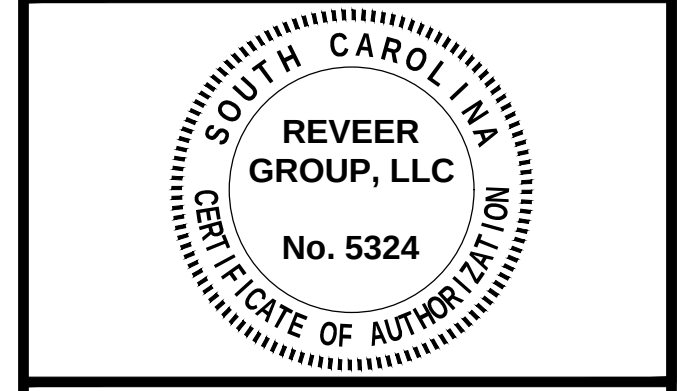
AZALEA DRIVE TYPICAL SECTION 10
STATION 18+48.61 TO STATION 19+99.00
(EXCLUDING DRIVEWAYS)
 N.T.S.



AZALEA DRIVE TYPICAL SECTION 11
STATION 21+23.90 TO STATION 21+69.58
 N.T.S.

NOTES:

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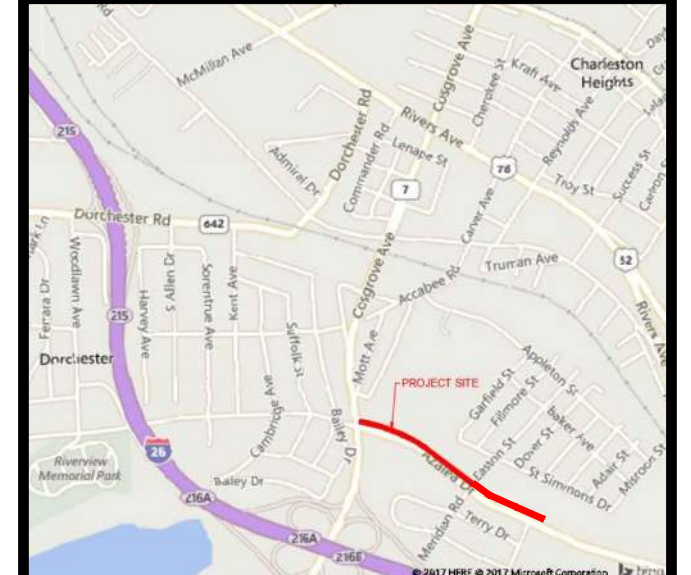


PROJECT OWNER:
CHARLESTON COUNTY PUBLIC WORKS

PROJECT TITLE:
AZALEA DRIVE SIDEWALK

PROJECT LOCATION:
NORTH CHARLESTON, SC

PROJECT NUMBER:
0200102.05



FOR CONSTRUCTION

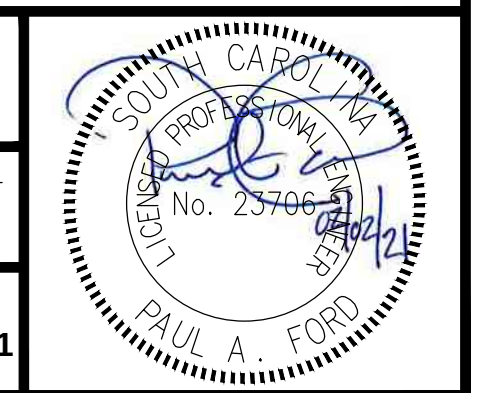
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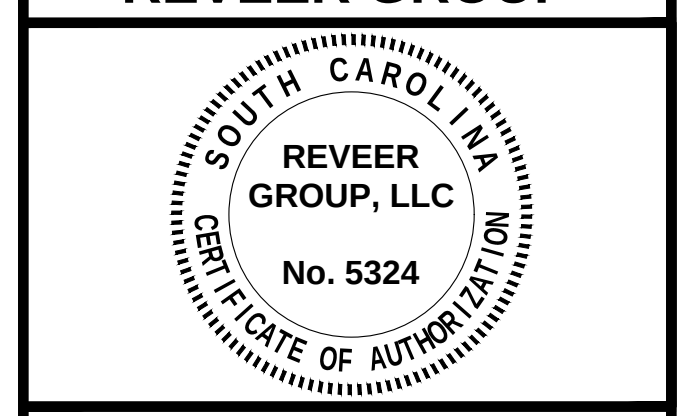
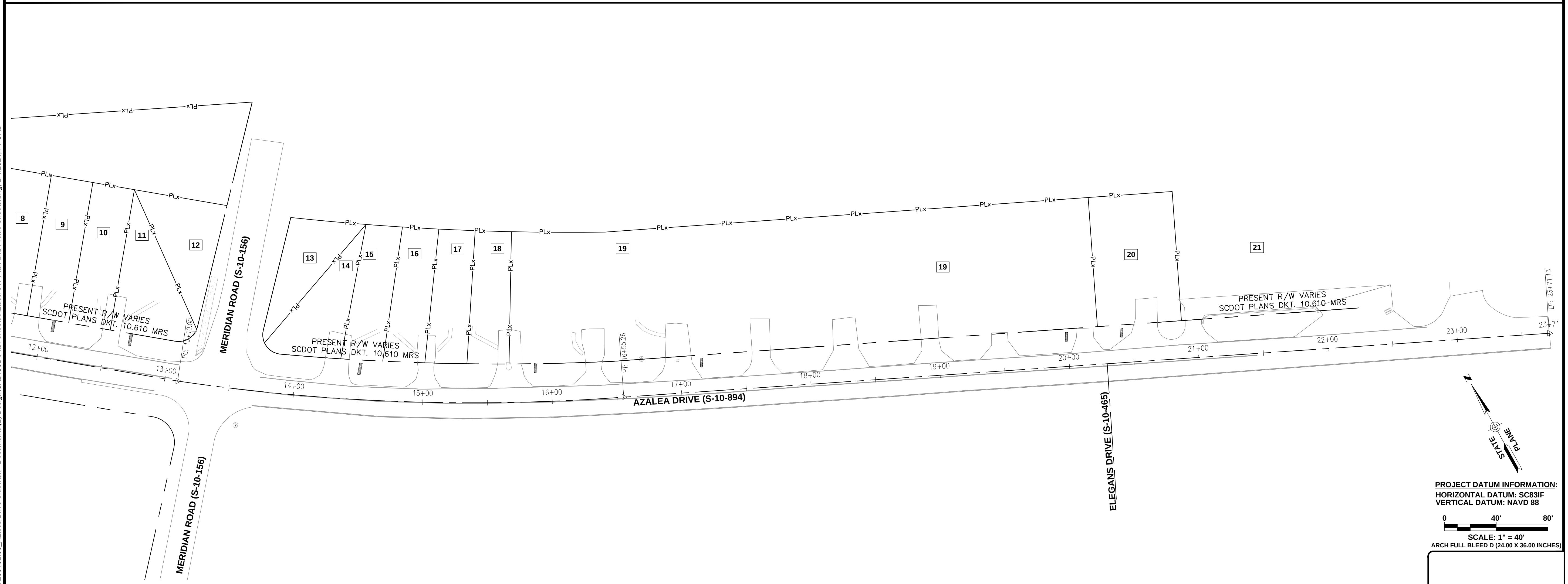
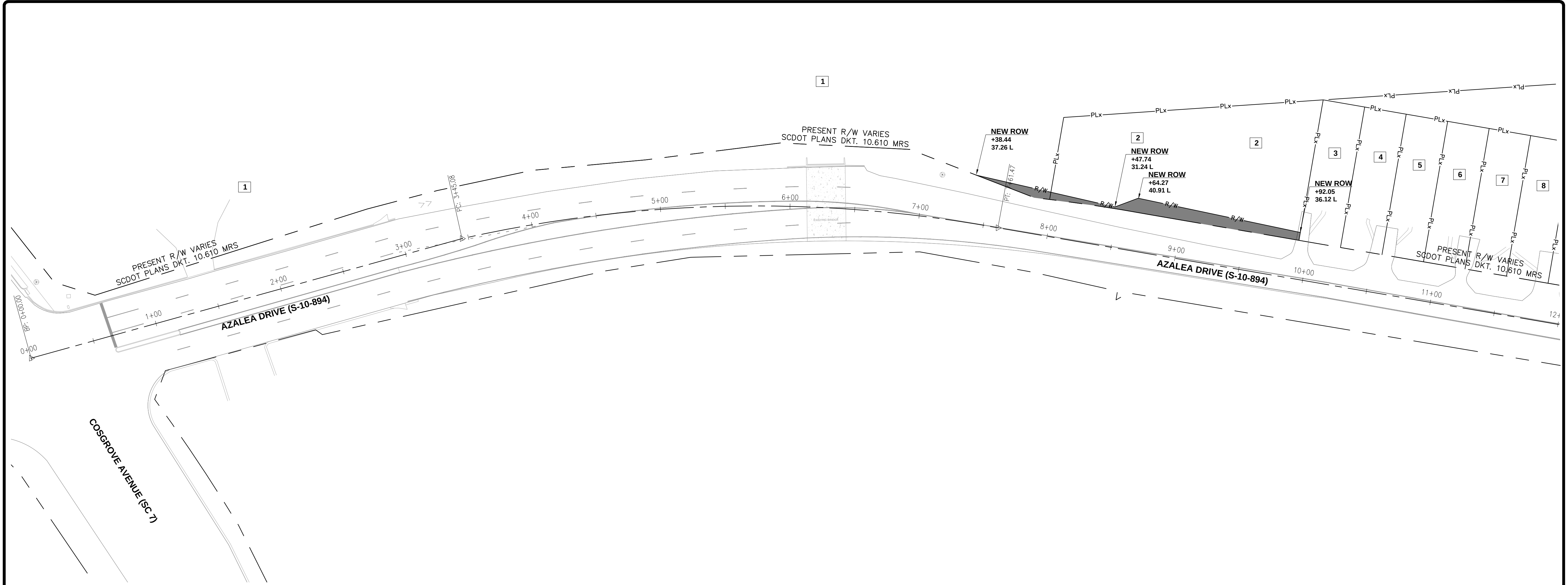
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APPROVED BY:
PAF

DATE:
02/02/2021



TYPICAL SECTIONS

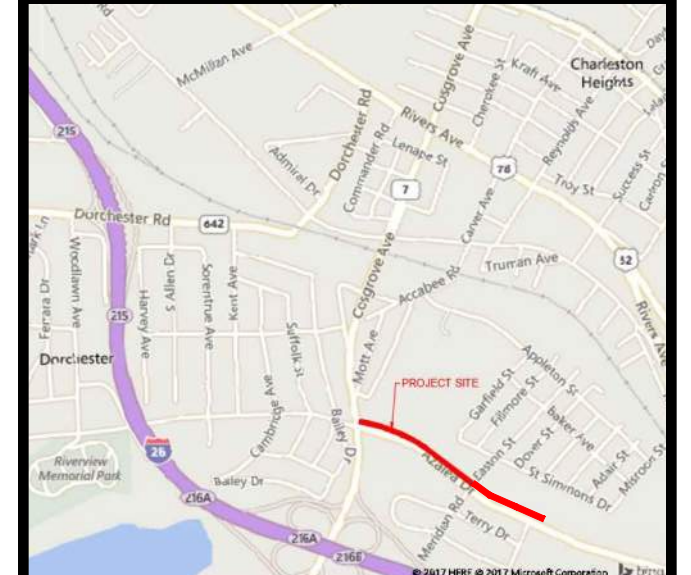


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**FOR
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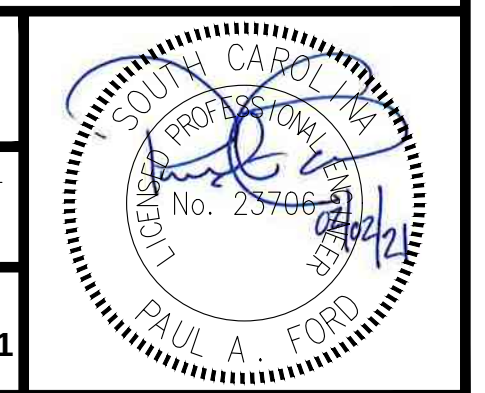
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DRAWN BY:
MRS/JSM

APPROVED BY:
PAF

DATE:
02/02/2021



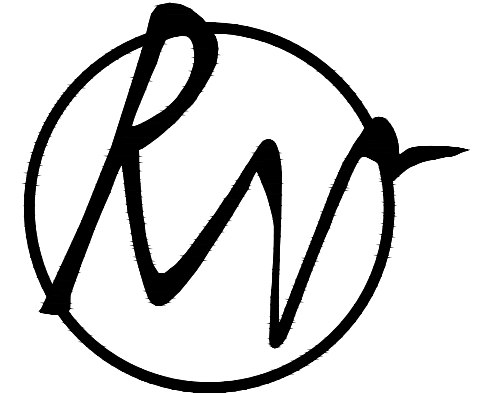
PROPERTY STRIP MAP


PROJECT DATUM INFORMATION:
 HORIZONTAL DATUM: SC83IF
 VERTICAL DATUM: NAVD 88

SCALE: 1" = 40'
 ARCH FULL BLEED D (24.00 X 36.00 INCHES)

S:\200102.05 - Azalea Drive Sidewalk - Documents\2 - Design\CAD\C3D\Plan Sheets\Azalea SW-Plan and Profile Sheets.dwg, 2/4/2021, PFORD

TRACT NO.	TAX MAP REFERENCE	PROPERTY OWNER	TOTAL TRACT ACRES	OBTAIN (ACRES)				REMAINDER LEFT ACRES	REMAINDER RIGHT ACRES	DATE ACQUIRED	TYPE OF INSTRUMENT	OUTFALL DITCH PERMISSION (YES)	SLOPE PERMISSION (YES)	DRAINAGE STRUCTURE PERMISSION (YES)	EROSION CONTROL PERMISSION (YES)	ENTRANCE CONSTRUCTION PERMISSION (YES)	REMARKS
				OUTFALL DITCH ACRES	LEFT	RIGHT	TOTAL										
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														

REVEERGROUP.COM

843.297.4103

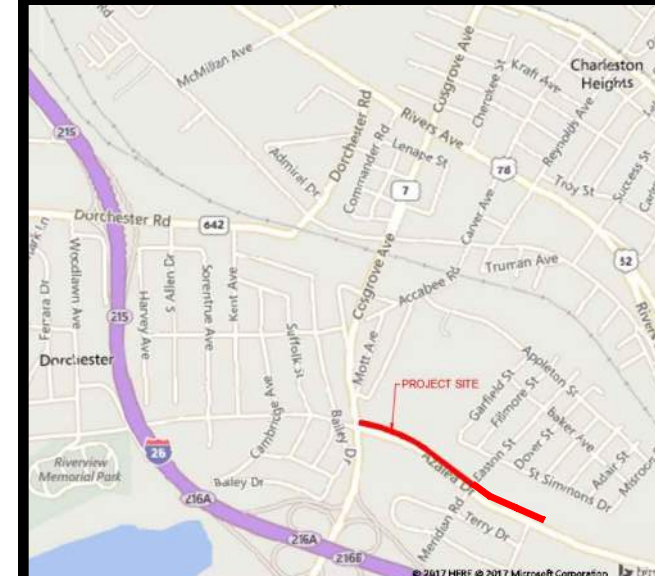


PROJECT OWNER:
CHARLESTON COUNTY
PUBLIC WORKS

PROJECT TITLE:
**AZALEA
DRIVE
SIDEWALK**

PROJECT LOCATION:
NORTH CHARLESTON, SC

PROJECT NUMBER:
0200102.05



**FOR
CONSTRUCTION**

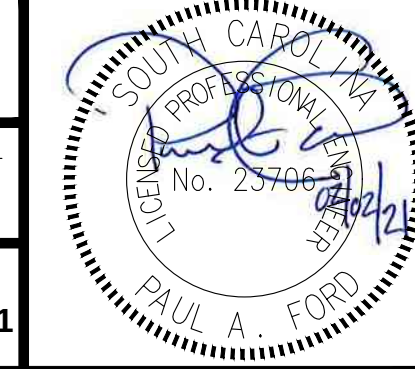
ORIGINAL SUBMISSION: 03/16/2018
REVISIONS:

NO.	DATE	DESCRIPTION
1	05/17/2018	SCDOT COMMENTS
2	11/05/2019	SCDOT COMMENTS
3	01/12/2020	SCDOT/COUNTY REVIEW
4	03/06/2020	SCDOT/COUNTY REVIEW
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7	08/13/2020	RIGHT-OF-WAY REVISIONS
8	10/19/2020	MS4 REVISIONS
9	02/02/2021	SCDOT & QUANTITY REVISIONS
10		

DRAWN BY:
MRS/JSM

APPROVED BY:
PAF

DATE:
02/02/2021



ROW DATA TABLE

4A

Tangent Data			
Description	PT Station	Northing	Easting
Start:	0+00.000	370369.3690	2313410.0100
End:	3+45.080	370287.6100	2313745.2640

Tangent Data			
Parameter	Value	Parameter	Value
Length:	345.0800	Course:	S 76° 17' 41.5879" E

Curve 1 Point Data			
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 Data			
Parameter	Value	Parameter	Value
Delta:	23° 01' 34.5141"	Type:	RIGHT
Radius:	1036.1030	DOC:	05° 31' 47.7467"
Length:	416.3930	Tangent:	211.0450
Mid-Ord:	20.8470	External:	21.2760
Chord:	413.5970	Course:	S 61° 56' 04.5820" E

Tangent Data			
Description	PT Station	Northing	Easting
Start:	7+61.473	370093.0220	2314110.2270
End:	13+10.000	369747.8330	2314536.5200

Tangent Data			
Parameter	Value	Parameter	Value
Length:	548.5270	Course:	S 51° 00' 04.7268" E

Curve 2 Point Data			
Description	Station	Northing	Easting
PC:	13+10.000	369747.8330	2314536.5200
RP:		370975.2570	2315483.8890
PT:	16+55.262	369568.9200	2314830.9760

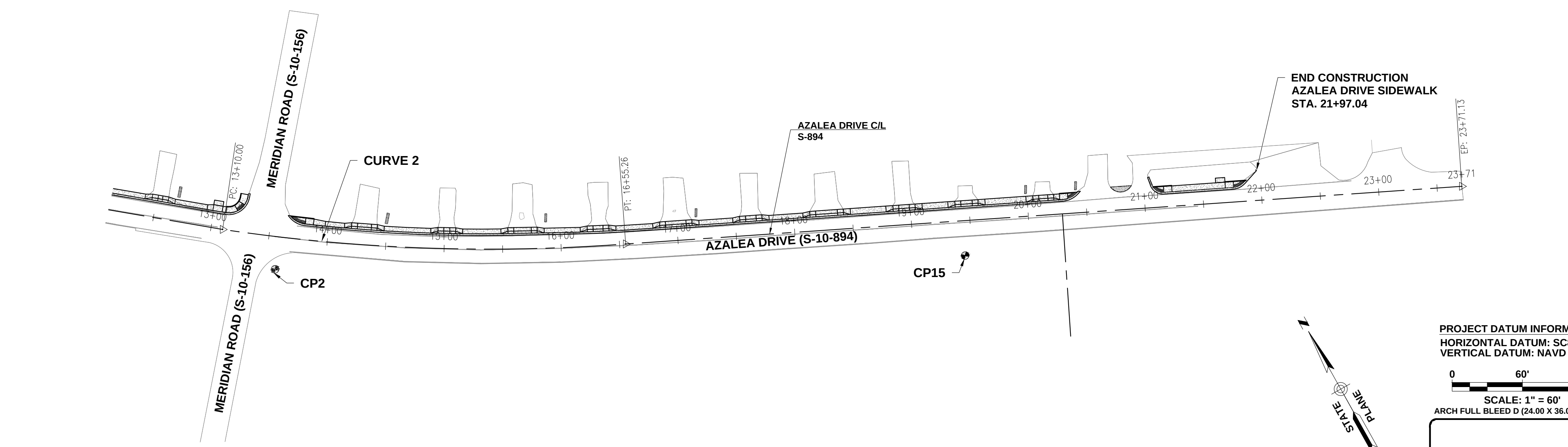
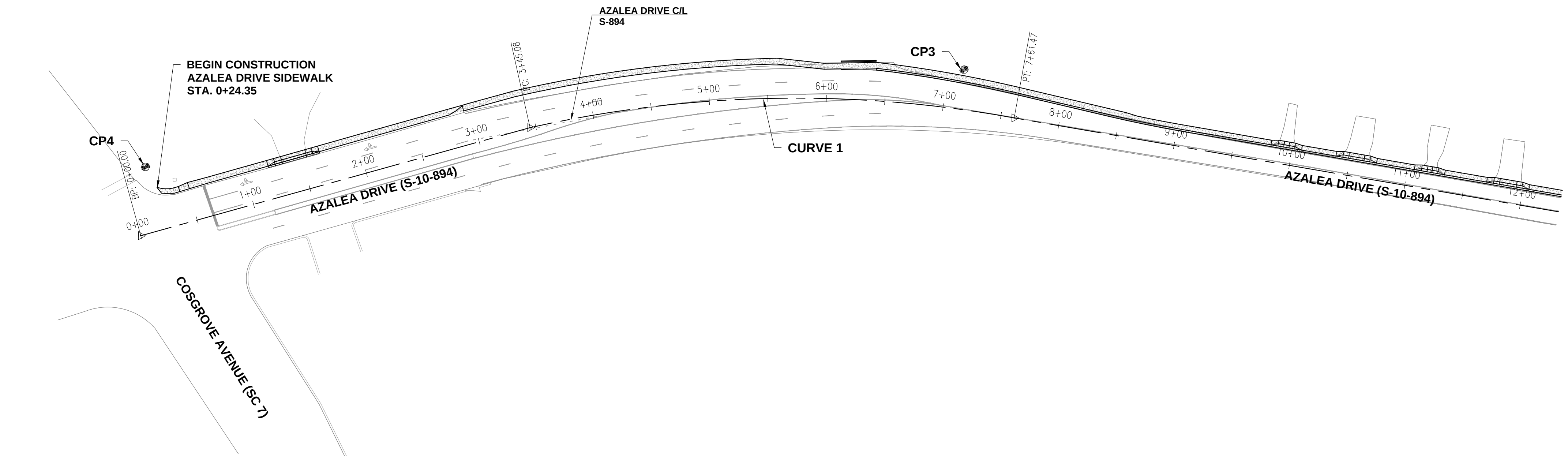
Circular 2 Curve Data			
Parameter	Value	Parameter	Value
Delta:	12° 45' 30.2882"	Type:	LEFT
Radius:	1550.5090	DOC:	03° 41' 43.0350"
Length:	345.2620	Tangent:	173.3480
Mid-Ord:	9.6000	External:	9.6600
Chord:	344.5490	Course:	S 58° 43' 01.2124" E

Tangent Data			
Description	PT Station	Northing	Easting
Start:	16+55.262	369568.9200	2314830.9760
End:	23+71.133	369263.3770	2315478.3680

Tangent Data			
Parameter	Value	Parameter	Value
Length:	715.8720	Course:	S 64° 44' 04.4555" E

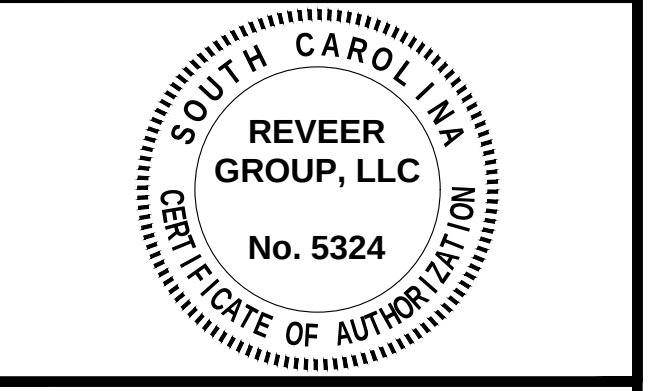
GENERAL INFORMATION			
CONTROL SURVEY SUMMARY			
VERTICAL:	NORTH AMERICAN VERTICAL DATUM 1988 (NAVD 88)		
HORIZONTAL:	NORTH AMERICAN DATUM 1983 (NAD 83)		
COORDINATES:	SOUTH CAROLINA STATE PLANE COORDINATE SYSTEM (SC83IF)		
COMBINED FACTOR:	0.99990462 AT CONTROL POINT 3 (GRID TO GROUND)		

SURVEY CONTROL POINTS			
CONTROL	NORTHING (FT)	EASTING (FT)	ELEV. (FT)
CP2	369.696.24	2,314,508.82	11.12'
CP3	370,149.66	2,314,092.86	11.13'
CP4	370,418.66	2,313,442.22	17.39'
CP15	369,418.75	2,315,079.25	11.38'



PROJECT DATUM INFORMATION:
 HORIZONTAL DATUM: SC83IF
 VERTICAL DATUM: NAVD 88

SCALE: 1" = 60'
 ARCH FULL BLEED D (24.00 X 36.00 INCHES)

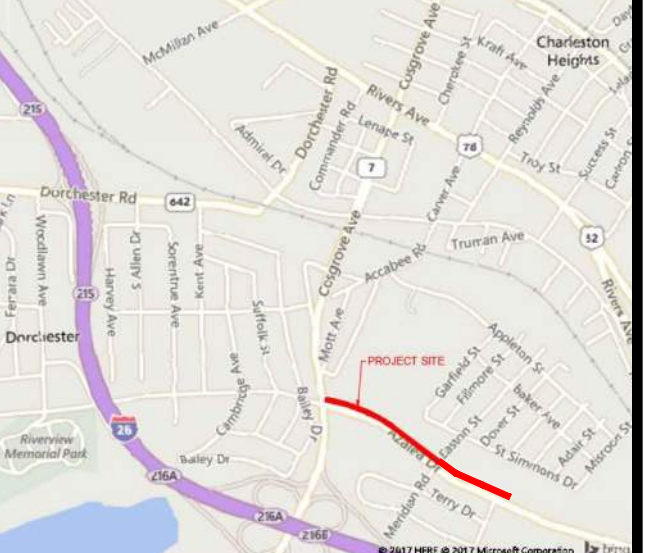


PROJECT OWNER:
CHARLESTON COUNTY PUBLIC WORKS

PROJECT TITLE:
AZALEA DRIVE SIDEWALK

PROJECT LOCATION:
 NORTH CHARLESTON, SC

PROJECT NUMBER:
0200102.05



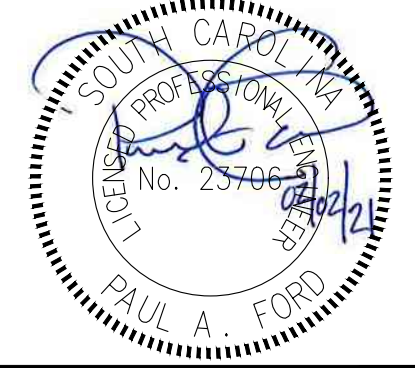
FOR CONSTRUCTION

ORIGINAL SUBMISSION: 03/16/2018		
NO.	DATE	DESCRIPTION
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8	10/19/2020	MS4 REVISIONS
9	02/02/2021	SCDOT & QUANTITY REVISIONS
10		

DRAWN BY:
 MRS/JSM

APPROVED BY:
 PAF

DATE:
 02/02/2021

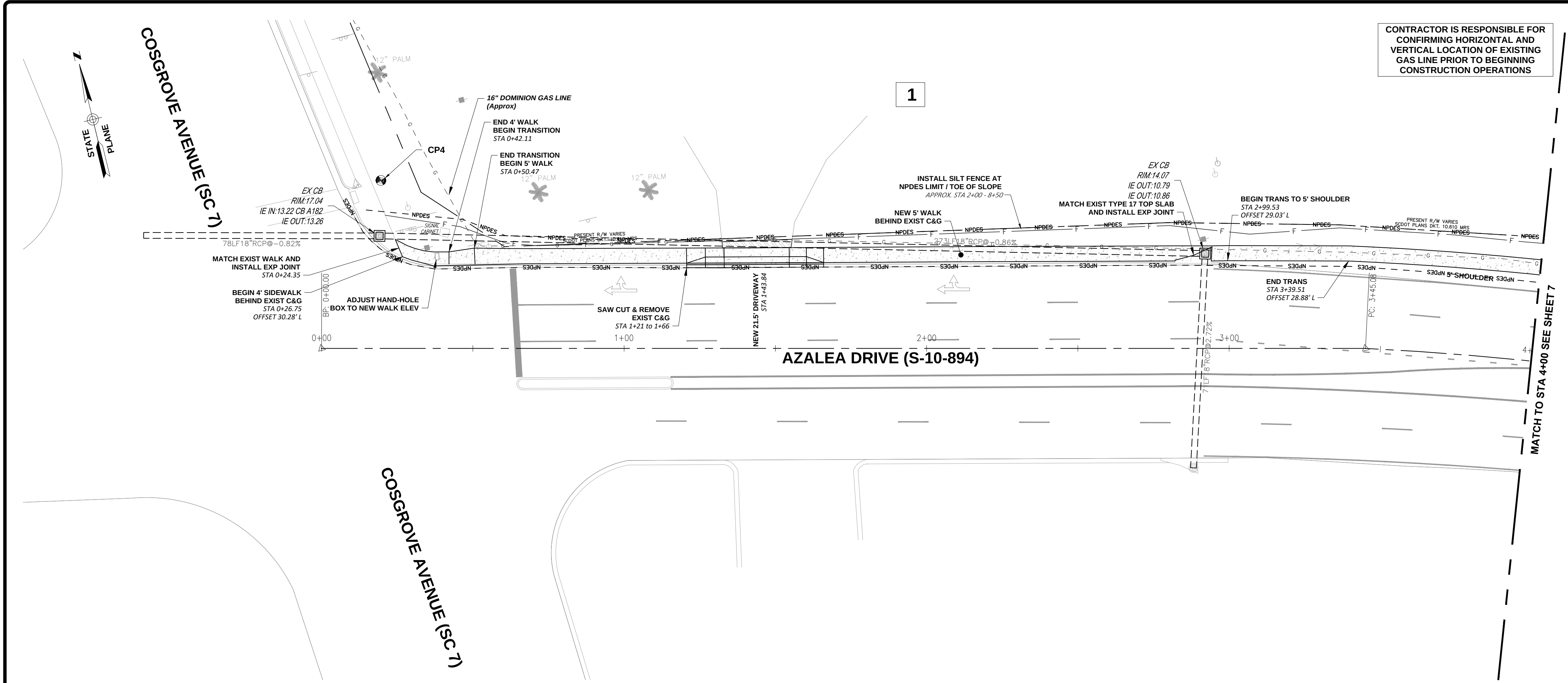


REFERENCE DATA

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CONTRACTOR IS RESPONSIBLE FOR CONFIRMING HORIZONTAL AND VERTICAL LOCATION OF EXISTING GAS LINE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS

LEGEND

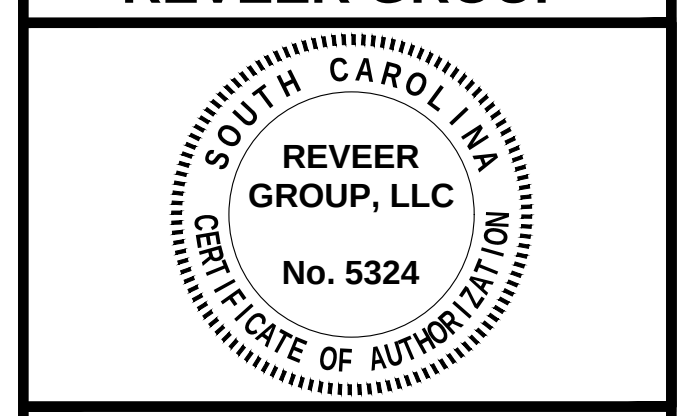
EXISTING

- FENCE LINE
- EDGE OF PAVEMENT
- PROPERTY LINES
- RIGHT-OF-WAY
- BOTTOM OF DITCH CENTERLINE
- STORM DRAINAGE PIPE
- LANE STRIPING
- SURVEY CONTROL POINT
- GRATE INLET
- SIDEWALK
- GAS LINE
- GAS VALVE
- POWER POLE
- COMMUNICATIONS CABINET
- COMMUNICATIONS PEDESTAL
- WATER METER

PROPOSED

- CONCRETE SIDEWALK
- ASPHALT REMOVAL & REPLACEMENT
- RIP-RAP OUTLET PROTECTION
- STORM DRAINAGE STRUCTURE
- LANE STRIPING AND CROSSWALK STRIPING
- CURB AND GUTTER
- TOE OF SLOPE FILL LINE
- BOTTOM OF DITCH CENTER LINE
- TOP OF DITCH
- STORM DRAINAGE PIPE
- TRENCH DRAIN
- RIGHT-OF-WAY
- LIMITS OF DISTURBANCE

- NOTES:**
- UNLESS OTHERWISE NOTED, OFFSETS ARE MEASURED FROM THE AZALEA DR ALIGNMENT.
 - UNLESS OTHERWISE NOTED IN PLANS, ALL DRIVEWAYS TO BE CONSTRUCTED PER THE DETAIL ON SHEET 21.
 - STATION CALLOUTS FOR THE DRIVEWAYS ARE MADE AT THE CENTER OF THE CONSTRUCTED ITEM.
 - GRADES LABELED ON PROFILE ARE LONGITUDINAL GRADES FOR THE PROPOSED EDGE OF CURB.
 - SEE PROFILE AND CROSS SECTIONS FOR DITCH REALIGNMENT ELEVATIONS, OFFSETS, AND SIDE SLOPES.

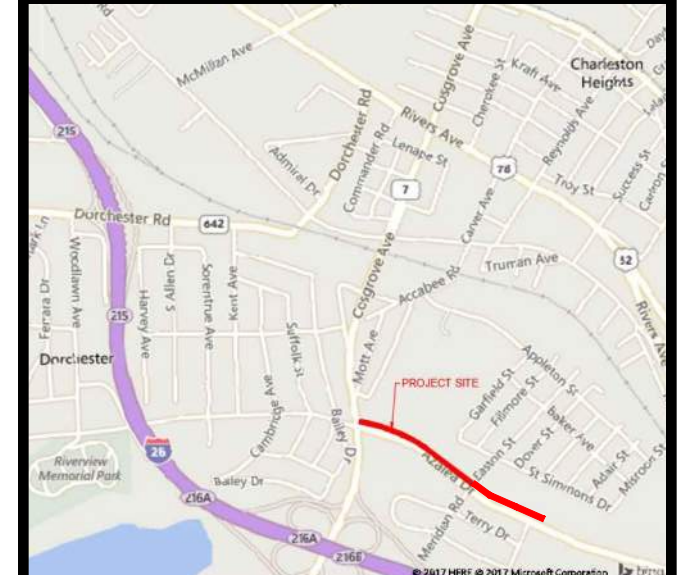


PROJECT OWNER:
CHARLESTON COUNTY PUBLIC WORKS

PROJECT TITLE:
AZALEA DRIVE SIDEWALK

PROJECT LOCATION:
NORTH CHARLESTON, SC

PROJECT NUMBER:
0200102.05



FOR CONSTRUCTION

ORIGINAL SUBMISSION: 03/16/2018

REVISIONS:

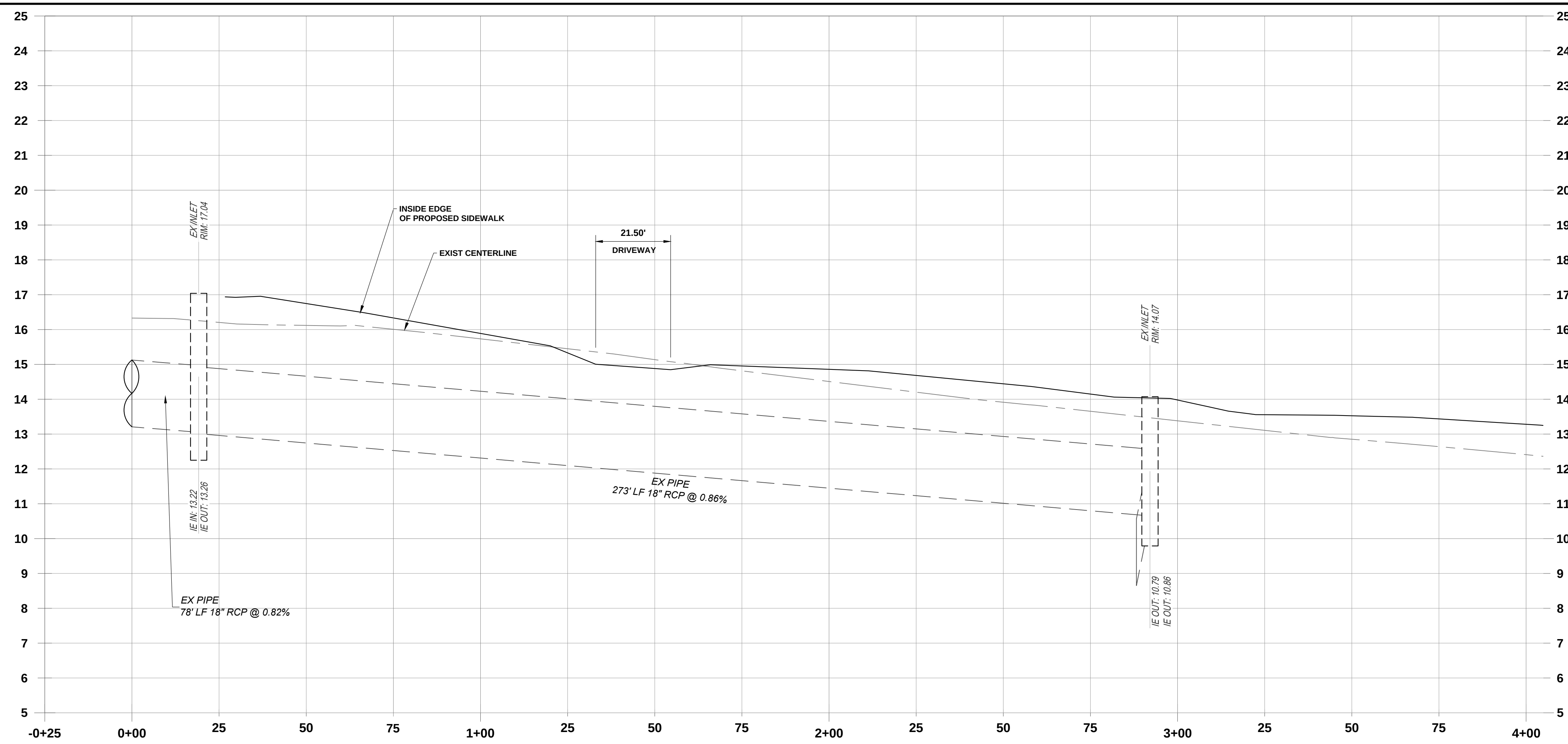
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DRAWN BY:
MRS/JSM

APPROVED BY:
PAF

DATE:
02/02/2021

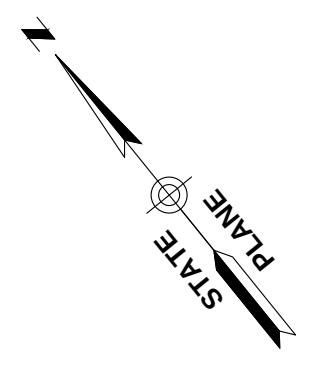
PLAN AND PROFILE



PROFILE: AZALEA DRIVE
SCALES: 1" = 20' HORIZONTAL 1" = 2' VERTICAL

PROJECT DATUM INFORMATION:
HORIZONTAL DATUM: SC83IF
VERTICAL DATUM: NAVD 88

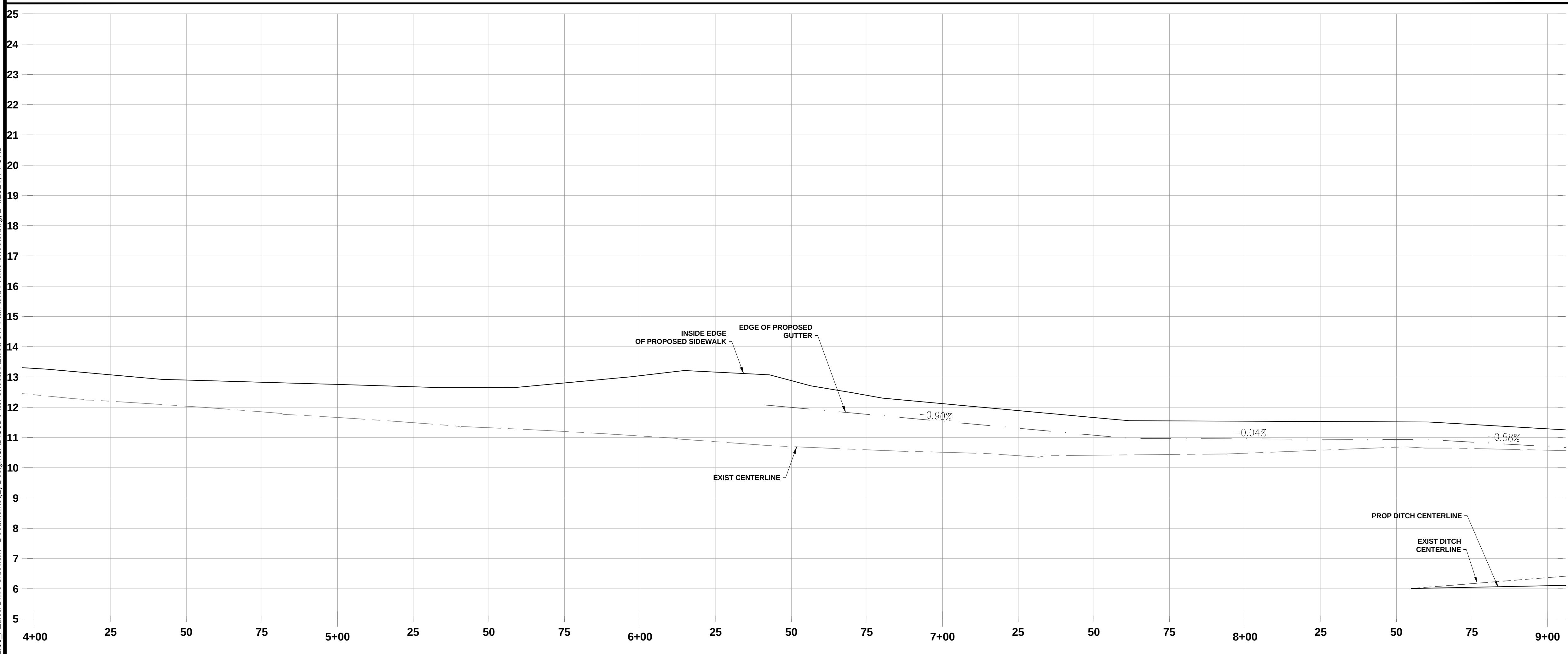
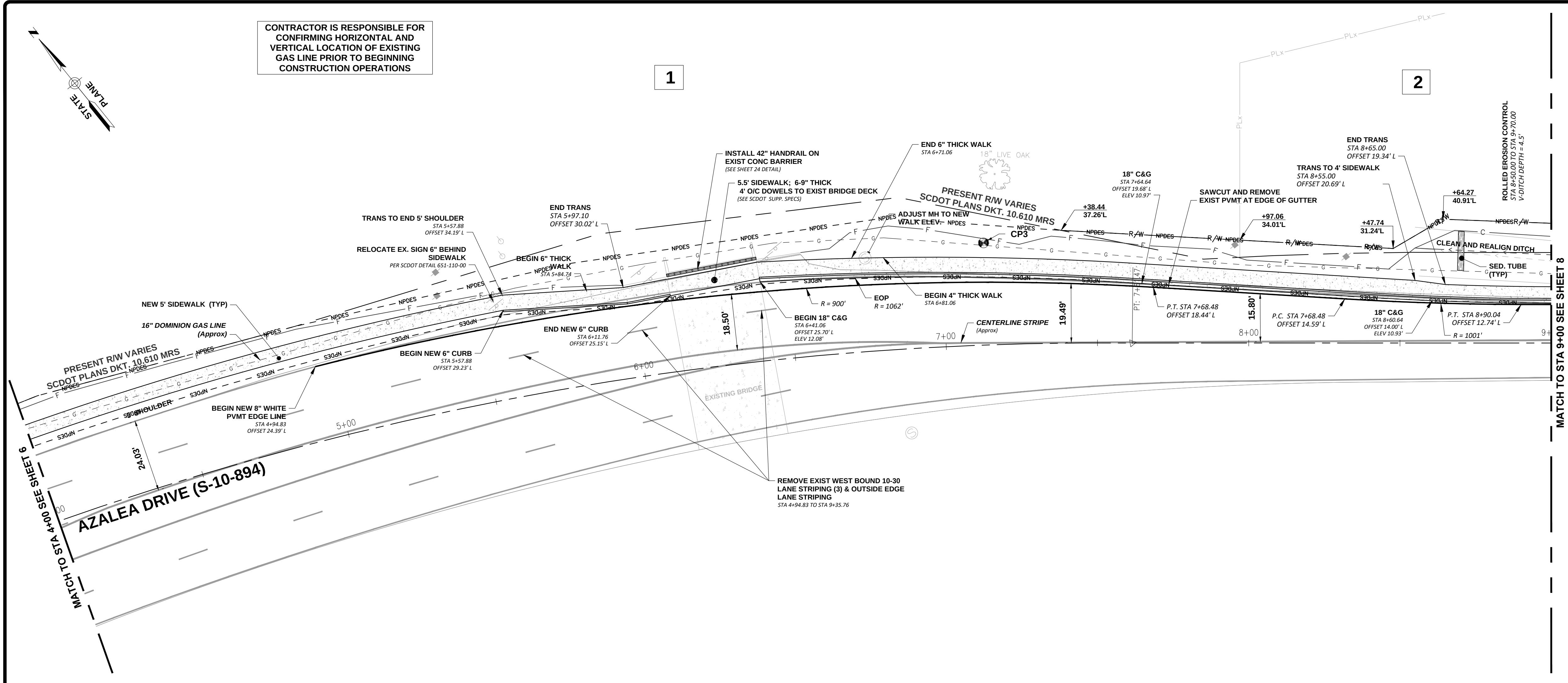
SCALE: 1" = 20'
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CONTRACTOR IS RESPONSIBLE FOR CONFIRMING HORIZONTAL AND VERTICAL LOCATION OF EXISTING GAS LINE PRIOR TO BEGINNING CONSTRUCTION OPERATIONS

1

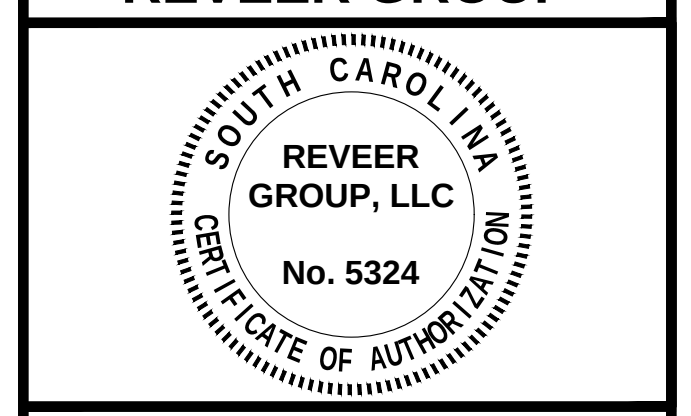
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PROFILE: AZALEA DRIVE
 SCALES: 1" = 20' HORIZONTAL 1" = 2' VERTICAL

PROJECT DATUM INFORMATION:
 HORIZONTAL DATUM: SC83IF
 VERTICAL DATUM: NAVD 88

SCALE: 1" = 20'
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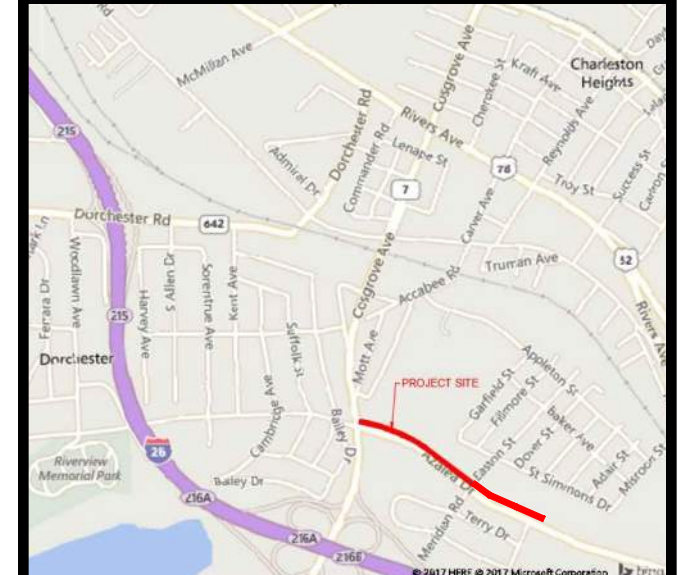


PROJECT OWNER:
CHARLESTON COUNTY PUBLIC WORKS

PROJECT TITLE:
AZALEA DRIVE SIDEWALK

PROJECT LOCATION:
 NORTH CHARLESTON, SC

PROJECT NUMBER:
0200102.05



FOR CONSTRUCTION

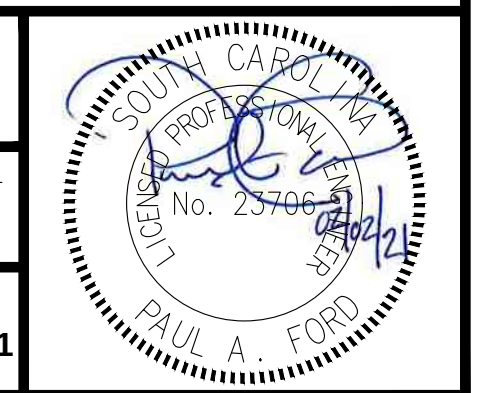
ORIGINAL SUBMISSION: 03/16/2018

NO.	DATE	DESCRIPTION
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8	10/19/2020	MS4 REVISIONS
9	02/02/2021	SCDOT & QUANTITY REVISIONS
10		

DRAWN BY:
 MRS/JSM

APPROVED BY:
 PAF

DATE:
 02/02/2021



PLAN AND PROFILE

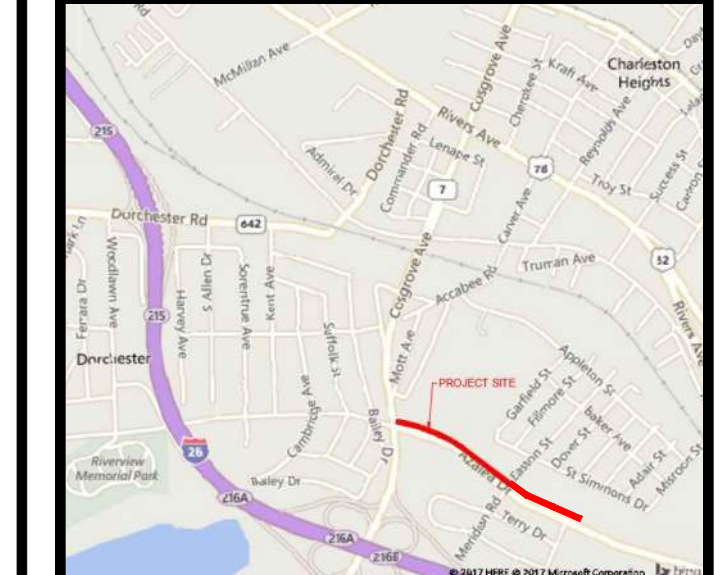


PROJECT OWNER:
CHARLESTON COUNTY PUBLIC WORKS

PROJECT TITLE:
AZALEA DRIVE SIDEWALK

PROJECT LOCATION:
NORTH CHARLESTON, SC

PROJECT NUMBER:
0200102.05



FOR CONSTRUCTION

ORIGINAL SUBMISSION: 03/16/2018

REVISIONS:

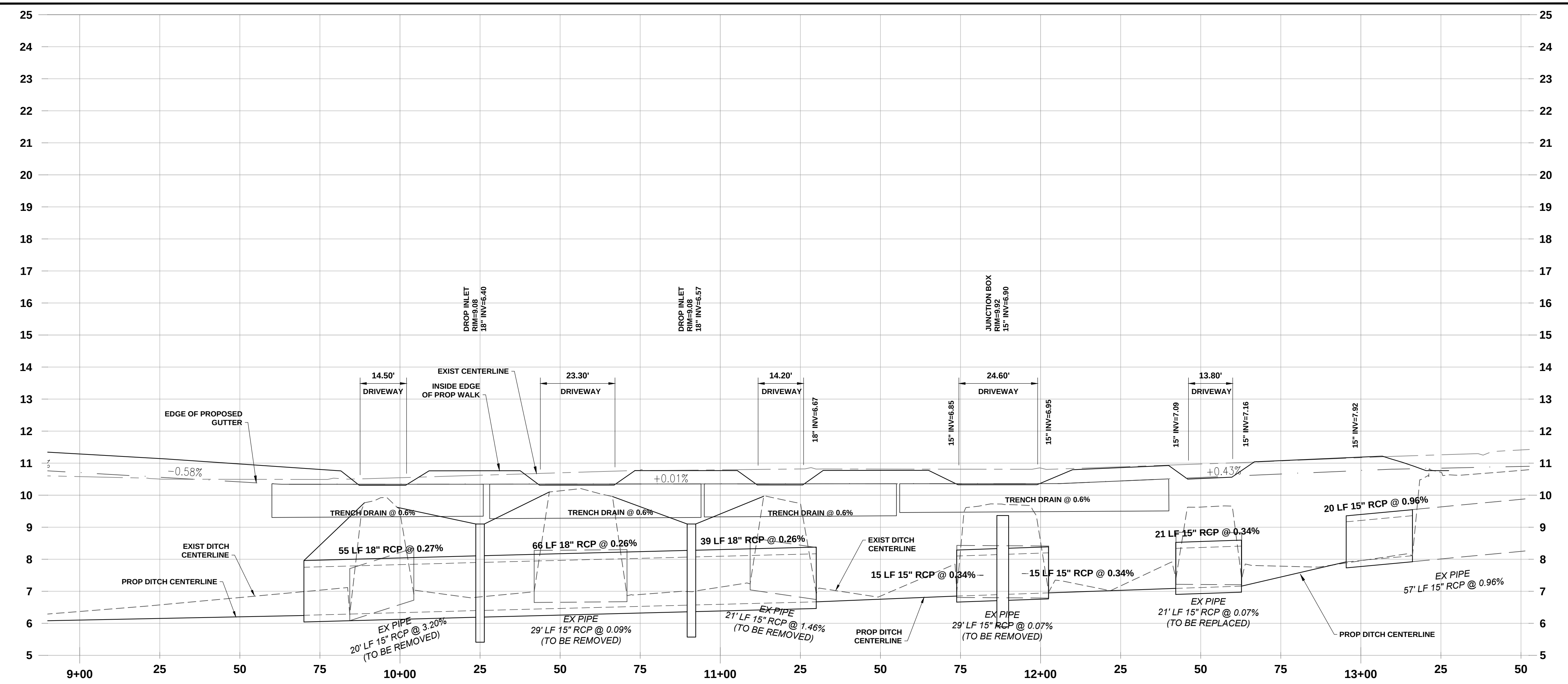
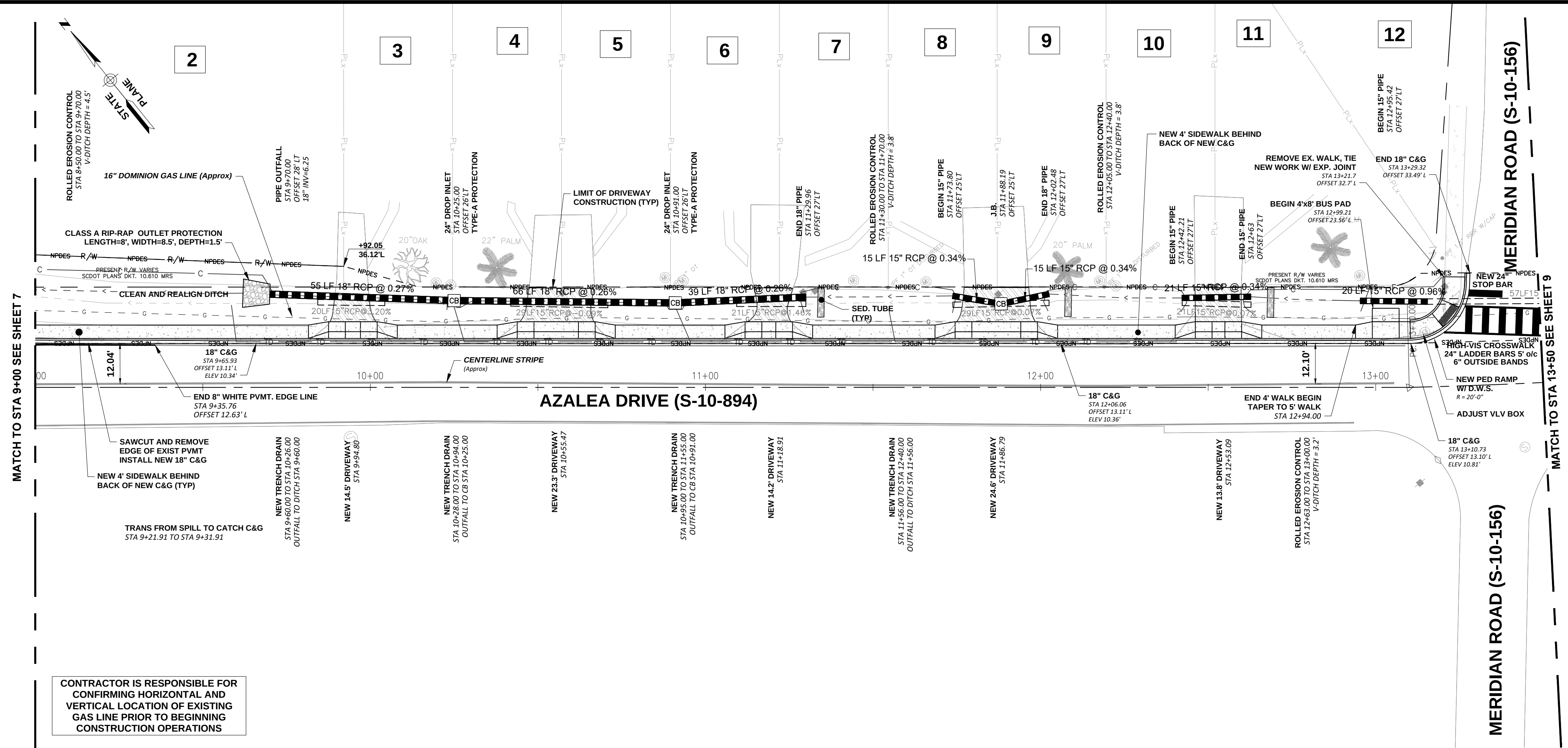
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DRAWN BY:
MRS/JSM

APPROVED BY:
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PLAN AND PROFILE

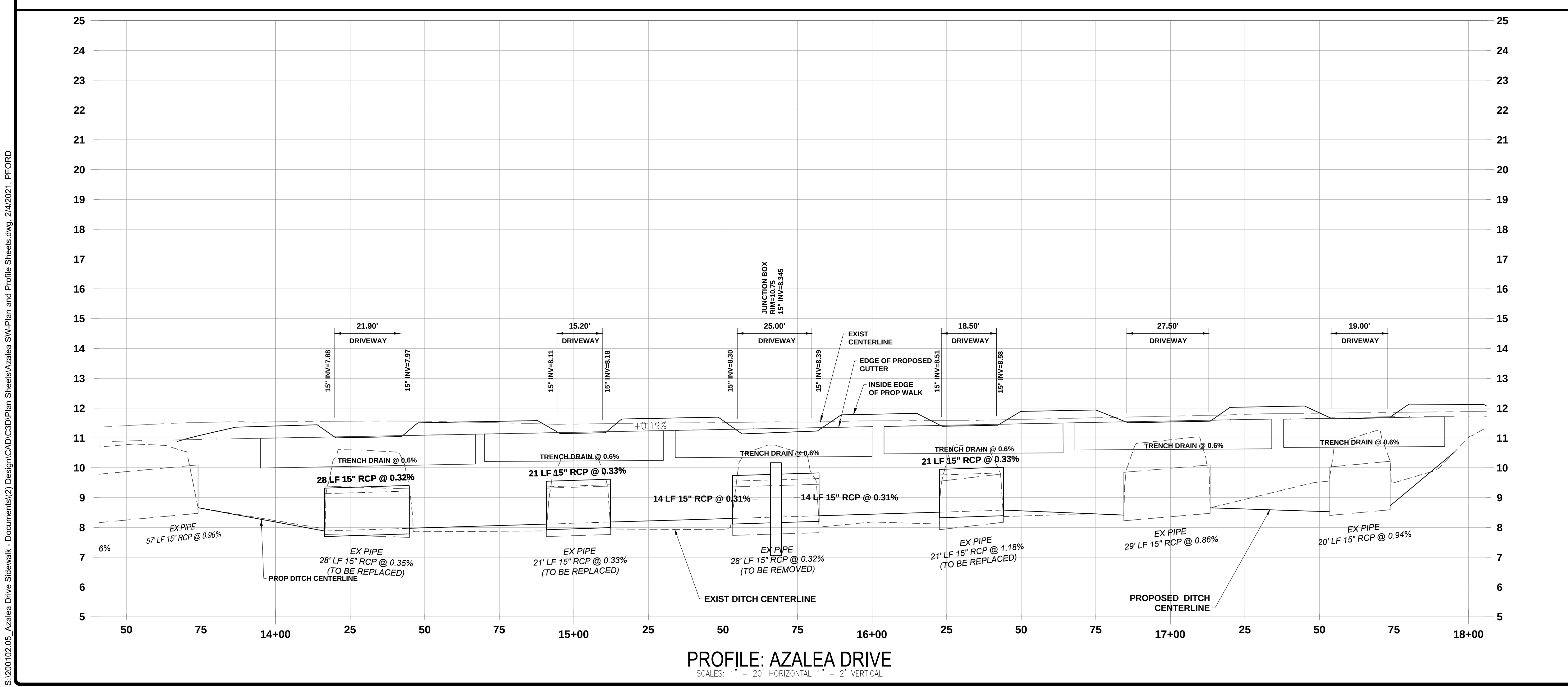
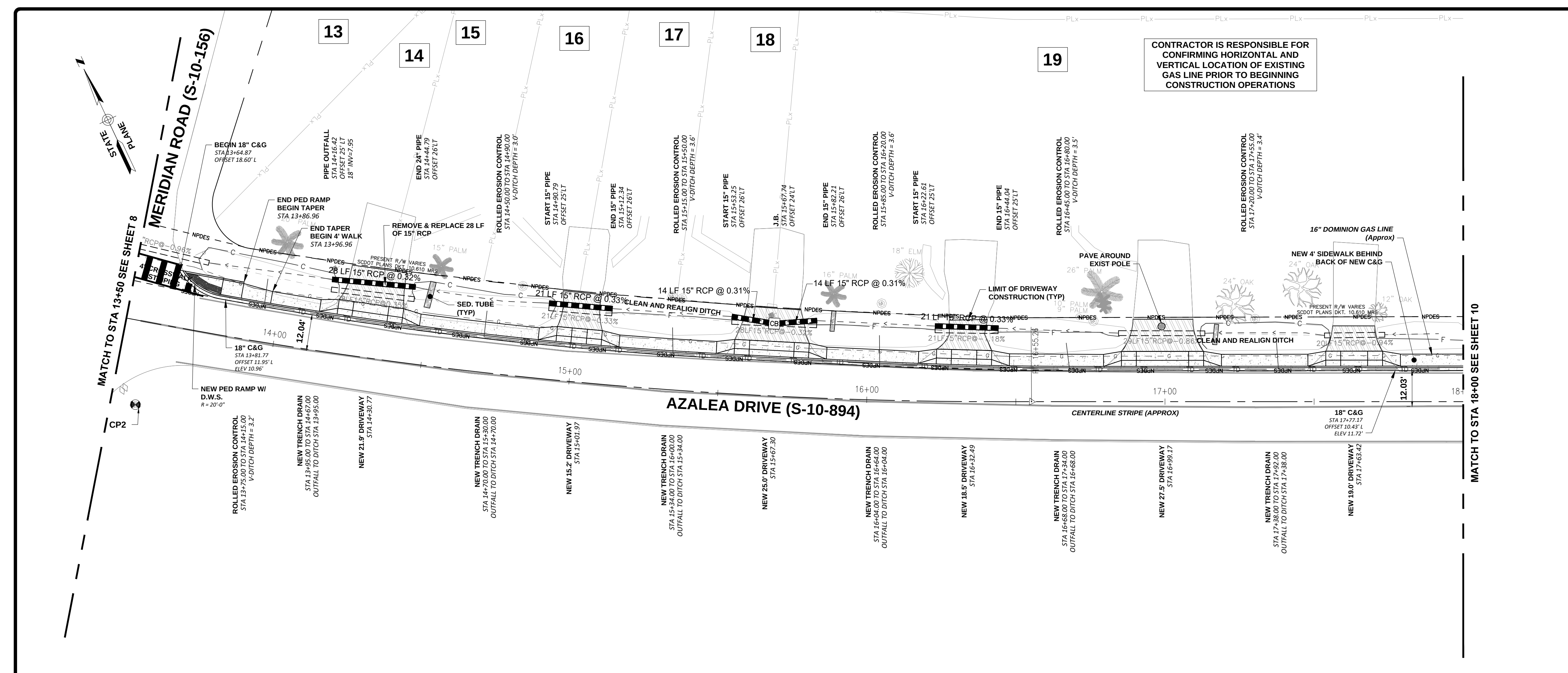


PROJECT DATUM INFORMATION:
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VERTICAL DATUM: NAVD 88

SCALE: 1" = 20'
ARCH FULL BLEED D (24.00 X 36.00 INCHES)

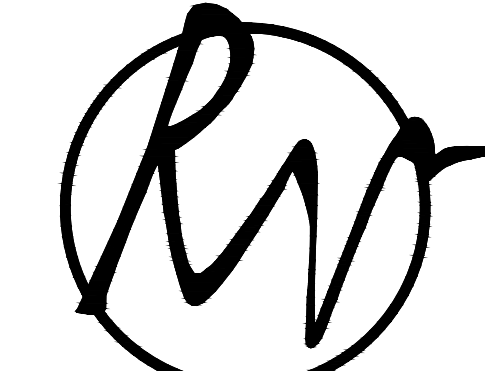
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 HORIZONTAL DATUM: SC83IF
 VERTICAL DATUM: NAVD 88

SCALE: 1" = 20'
 ARCH FULL BLEED D (24.00 X 36.00 INCHES)



REVEER GROUP



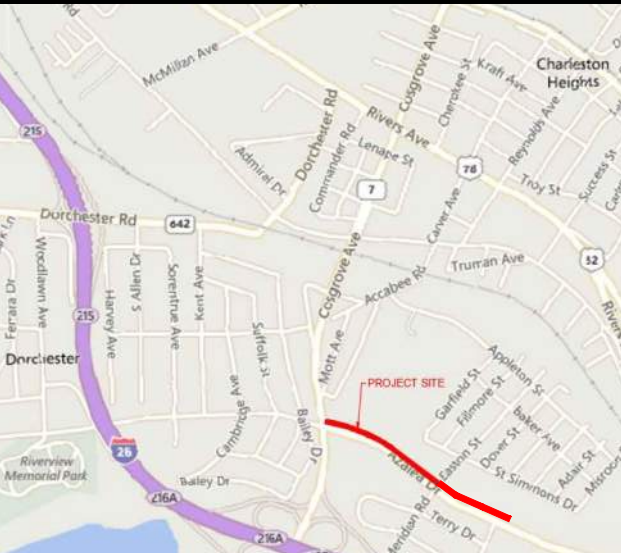
REVEER GROUP, LLC
No. 5324

PROJECT OWNER:
CHARLESTON COUNTY PUBLIC WORKS

PROJECT TITLE:
AZALEA DRIVE SIDEWALK

PROJECT LOCATION:
 NORTH CHARLESTON, SC

PROJECT NUMBER:
0200102.05



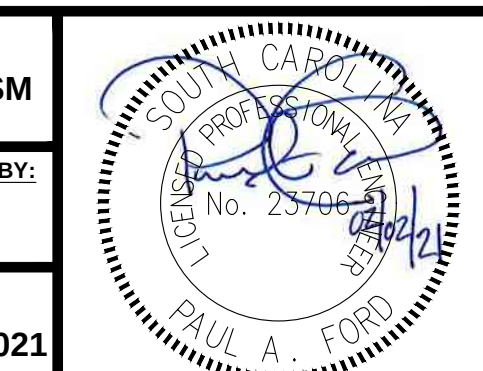
FOR CONSTRUCTION

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10		

DRAWN BY:
 MRS/JSM

APPROVED BY:
 PAF

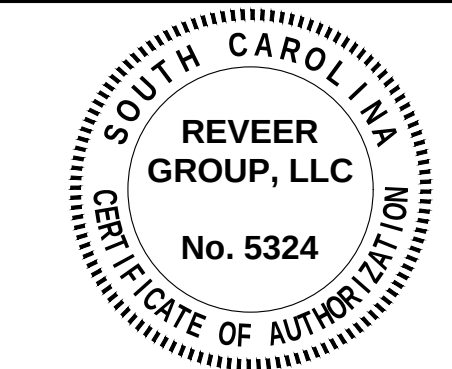
DATE:
 02/02/2021



PAUL A. FORD

PLAN AND PROFILE

9

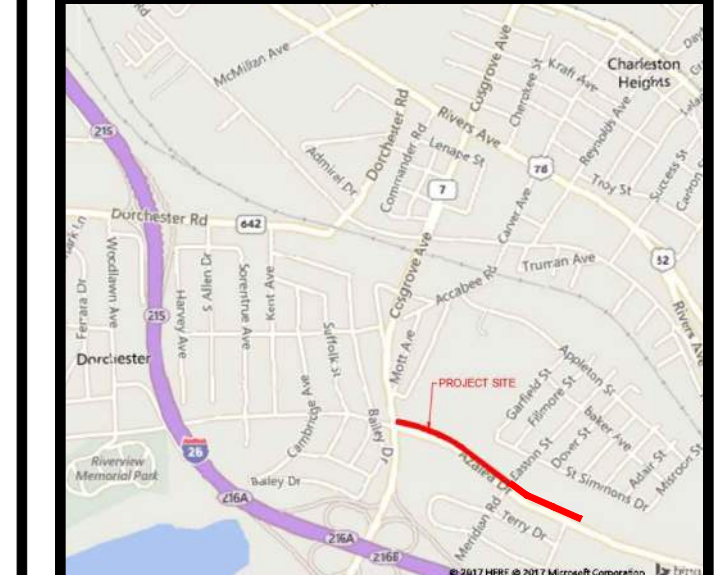


PROJECT OWNER:
CHARLESTON COUNTY PUBLIC WORKS

PROJECT TITLE:
AZALEA DRIVE SIDEWALK

PROJECT LOCATION:
NORTH CHARLESTON, SC

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0200102.05



FOR CONSTRUCTION

ORIGINAL SUBMISSION: 03/16/2018

NO.	DATE	DESCRIPTION
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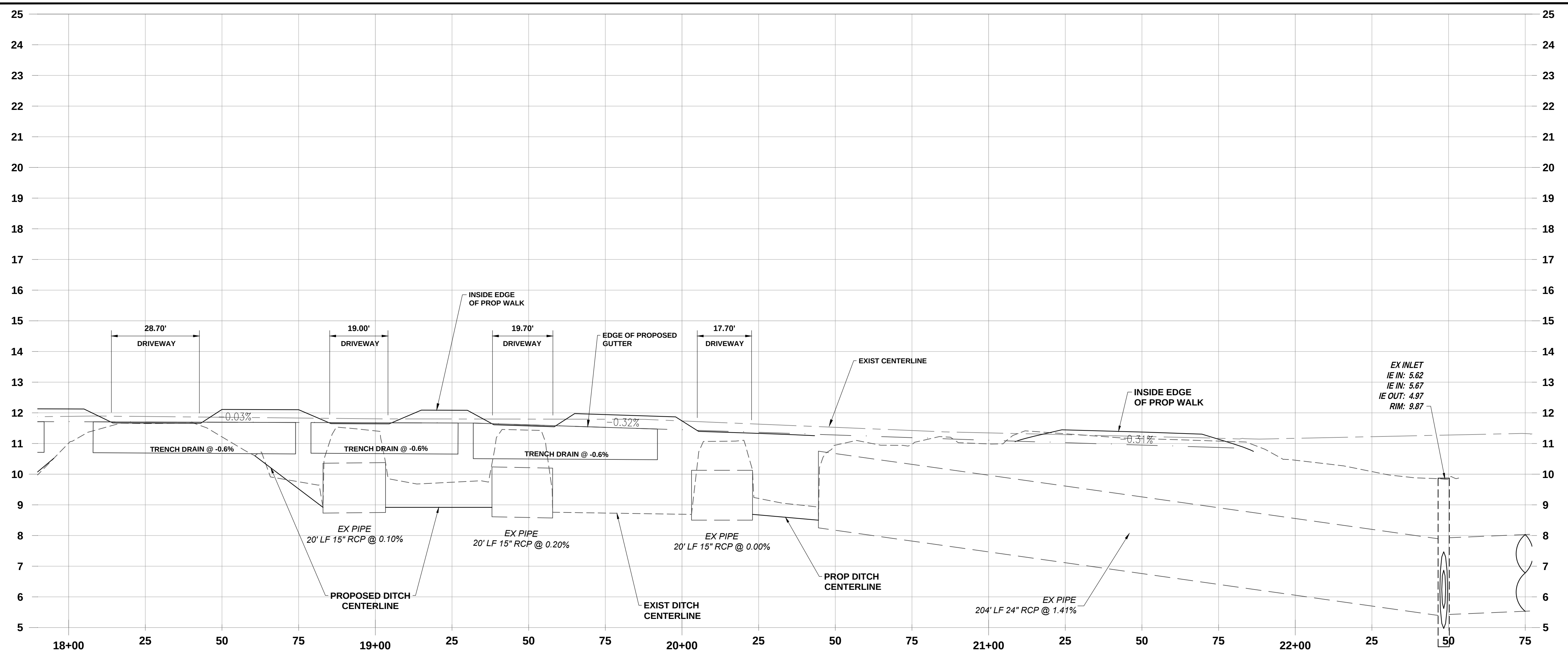
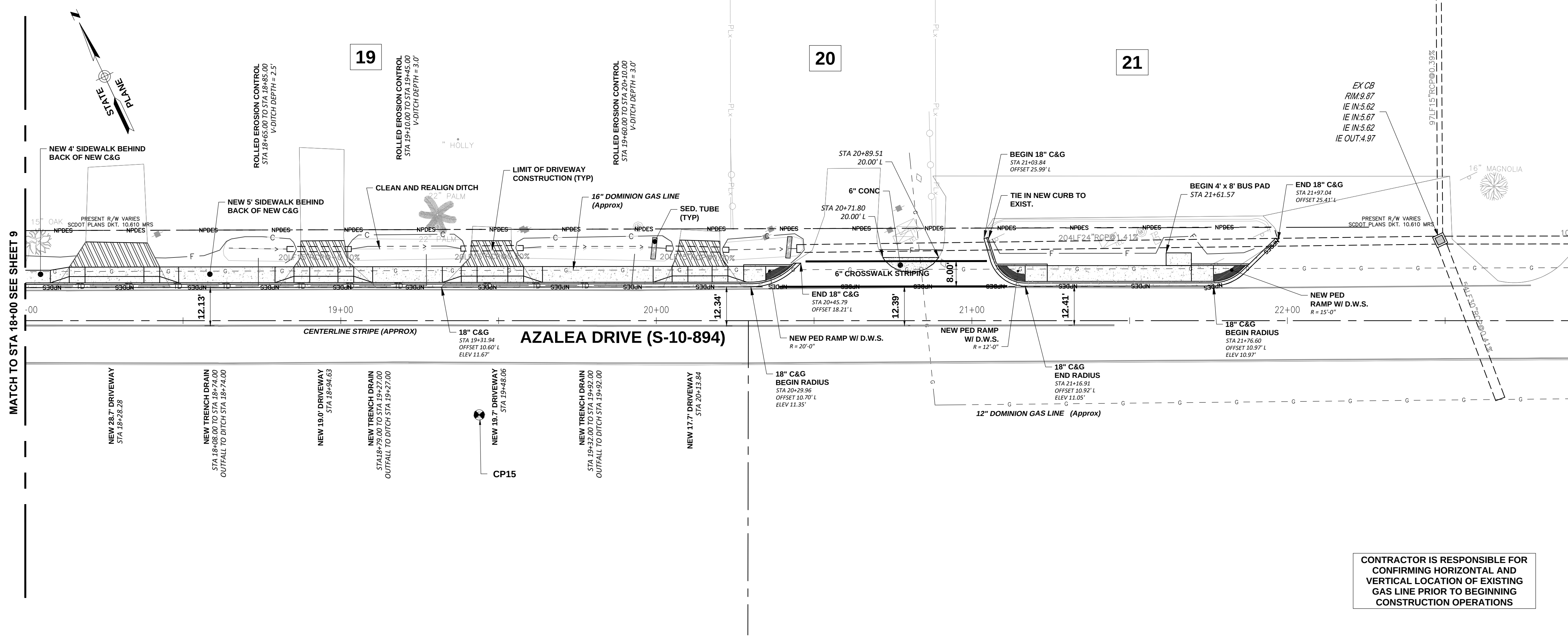
DRAWN BY:
MRS/JSM

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PAF

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PLAN AND PROFILE



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PERMANENT SEEDING - COASTAL													
SPECIES	LBS/Ac	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC
BAHIA GRASS	40 LBS/Ac												
BAHIA GRASS (MIX)	30 LBS/Ac												
BERMUDA GRASS	8-12 LBS/Ac												
BERMUDA GRASS (MIX)	4-6 LBS/Ac												
FESCUE, TALL (KY31)	40 LBS/Ac												
FESCUE, TALL (KY31) (MIX)	20 LBS/Ac												
SERICAEA LESPEDEZA	40 LBS/Ac												
LADINO CLOVER	2 LBS/Ac												
FOR STEEP SLOPES/CUT SLOPES													
WEeping LOVEGRASS	4 LBS/Ac												
WEeping LOVEGRASS (MIX)	2 LBS/Ac												
CROWN VETCH (MIX)	8-10 LBS/Ac												
NATIVE SPECIES FOR USE ON NON-CRITICAL, LEVEL SITES													
SWITCHGRASS (MIX)	10 LBS/Ac												
INDIAN GRASS (MIX)	8 LBS/Ac												
LITTLE BLUESTEM (MIX)	8 LBS/Ac												

TEMPORARY SEEDING - COASTAL													
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												
FOR STEEP SLOPES/CUT SLOPES													
WEeping LOVEGRASS	4 LBS/Ac												

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

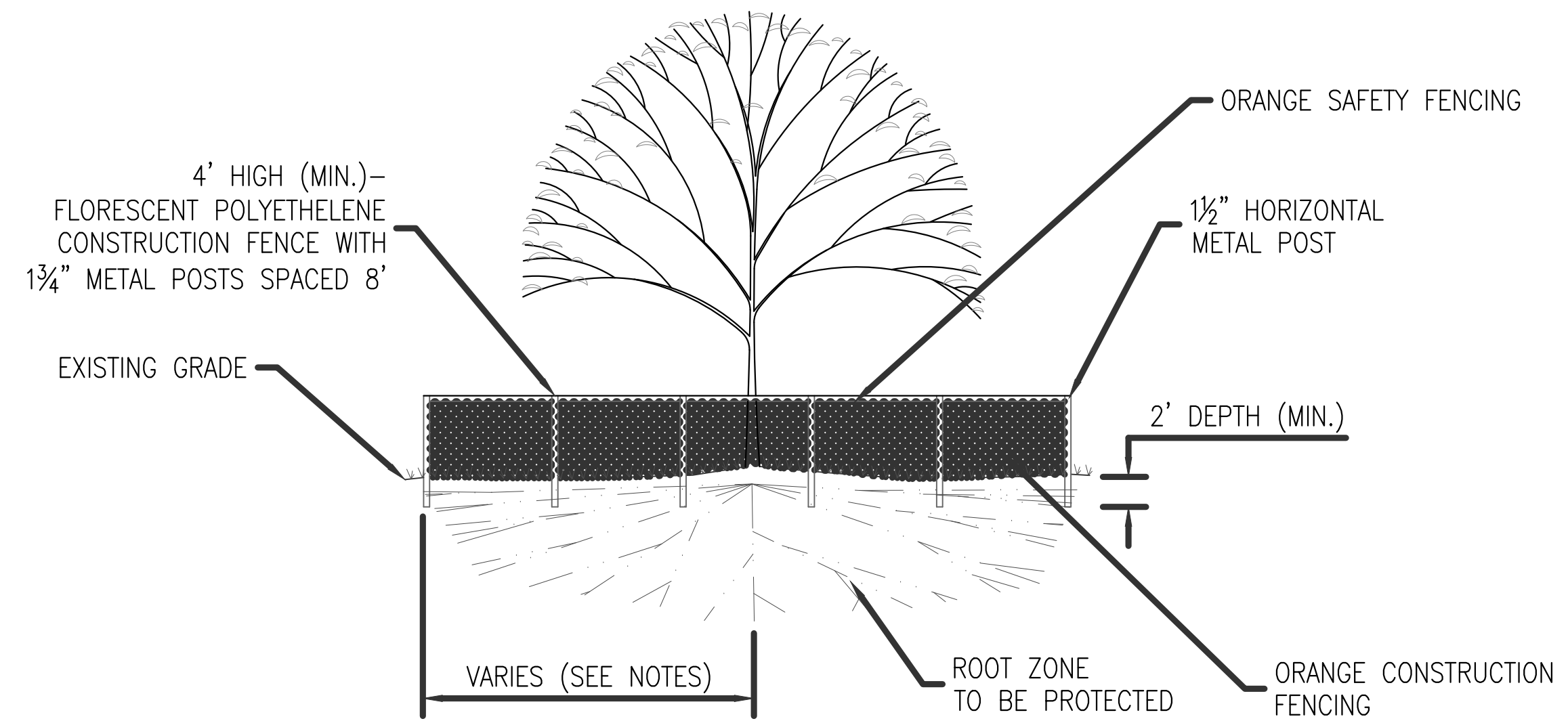
PERMANENT SEEDING GENERAL NOTES:

- 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.
- 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.
- 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.

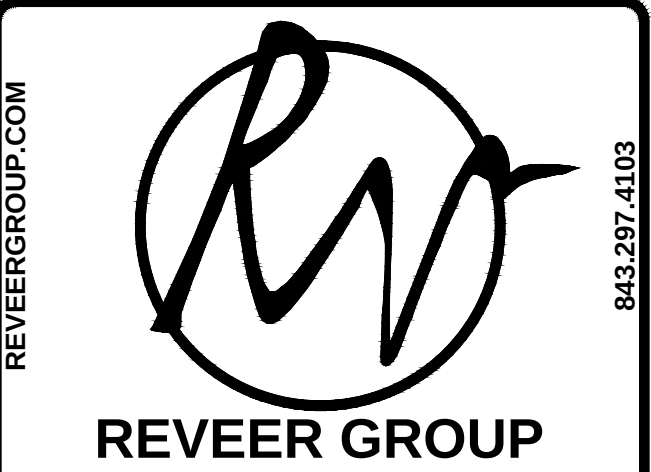
1 GRASSING AND SEEDING SCHEDULE
 SCALE: NTS

TREE PROTECTION BARRICADE NOTES:

- 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).
- ALL WORK DONE WITHIN PROTECTIVE BARRICADES IS TO BE DONE BY HAND AND LIGHT EQUIPMENT.
- 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.
- ALL PROTECTED TREES 8" OR GREATER NEED TO BE TREATED AND CARED FOR BY A CERTIFIED ARBORIST DURING CONSTRUCTION.
- PROTECTIVE BARRIER MUST CONSIST OF ORANGE SAFETY FENCING, NOT LESS THAN 4' HIGH AND SUPPORTED BY METAL POLES.
- APPROVAL OF THE BARRICADES IS REQUIRED PRIOR TO ISSUANCE OF A BUILDING PERMIT AND FINAL APPROVAL OF THE SITE PLAN.



2 TREE PROTECTION BARRICADE DETAIL
 SCALE: NTS

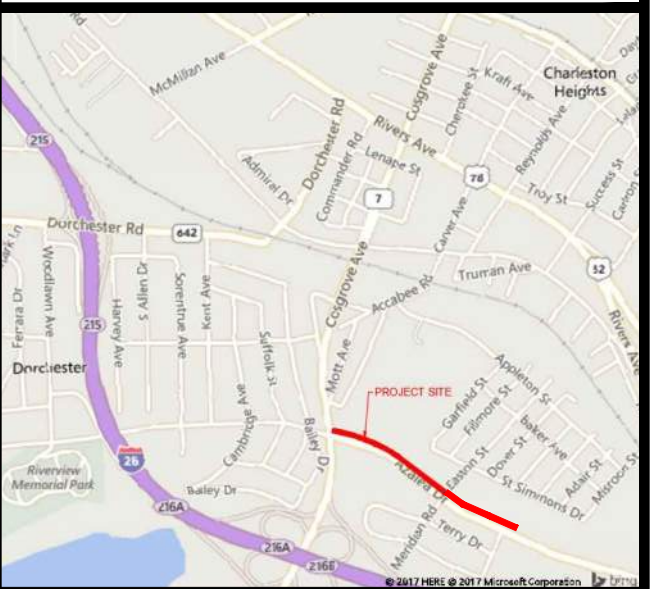


PROJECT OWNER:
CHARLESTON COUNTY PUBLIC WORKS

PROJECT TITLE:
AZALEA DRIVE SIDEWALK

PROJECT LOCATION:
NORTH CHARLESTON, SC

PROJECT NUMBER:
0200102.05



FOR CONSTRUCTION

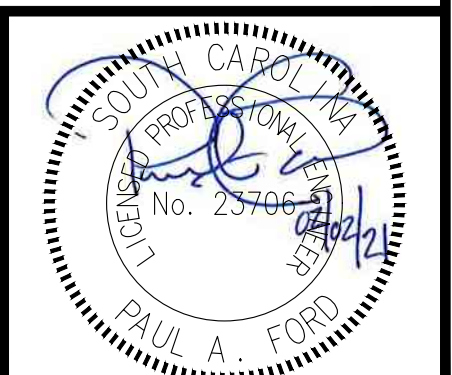
ORIGINAL SUBMISSION: 03/16/2018

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7	08/13/2020	RIGHT-OF-WAY REVISIONS
8	10/19/2020	MS4 REVISIONS
9	02/02/2021	SCDOT & QUANTITY REVISIONS
10		

DRAWN BY:
 MRS/JSM

APPROVED BY:
 PAF

DATE:
 02/02/2021



SWPPP DETAILS

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	2	3	2
	4:1			
	6:1			
6-10	2:1	12*	13*	5
	4:1			
	6:1			
>10	2:1	12*	13*	5
	4:1			
	6:1			

*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.

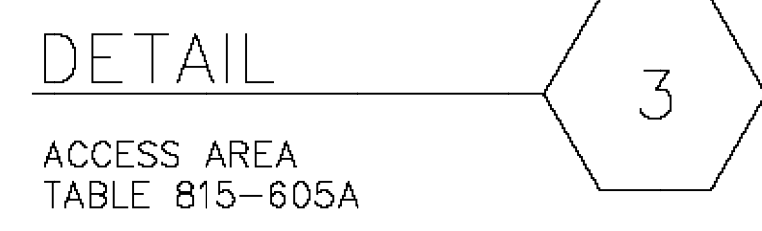
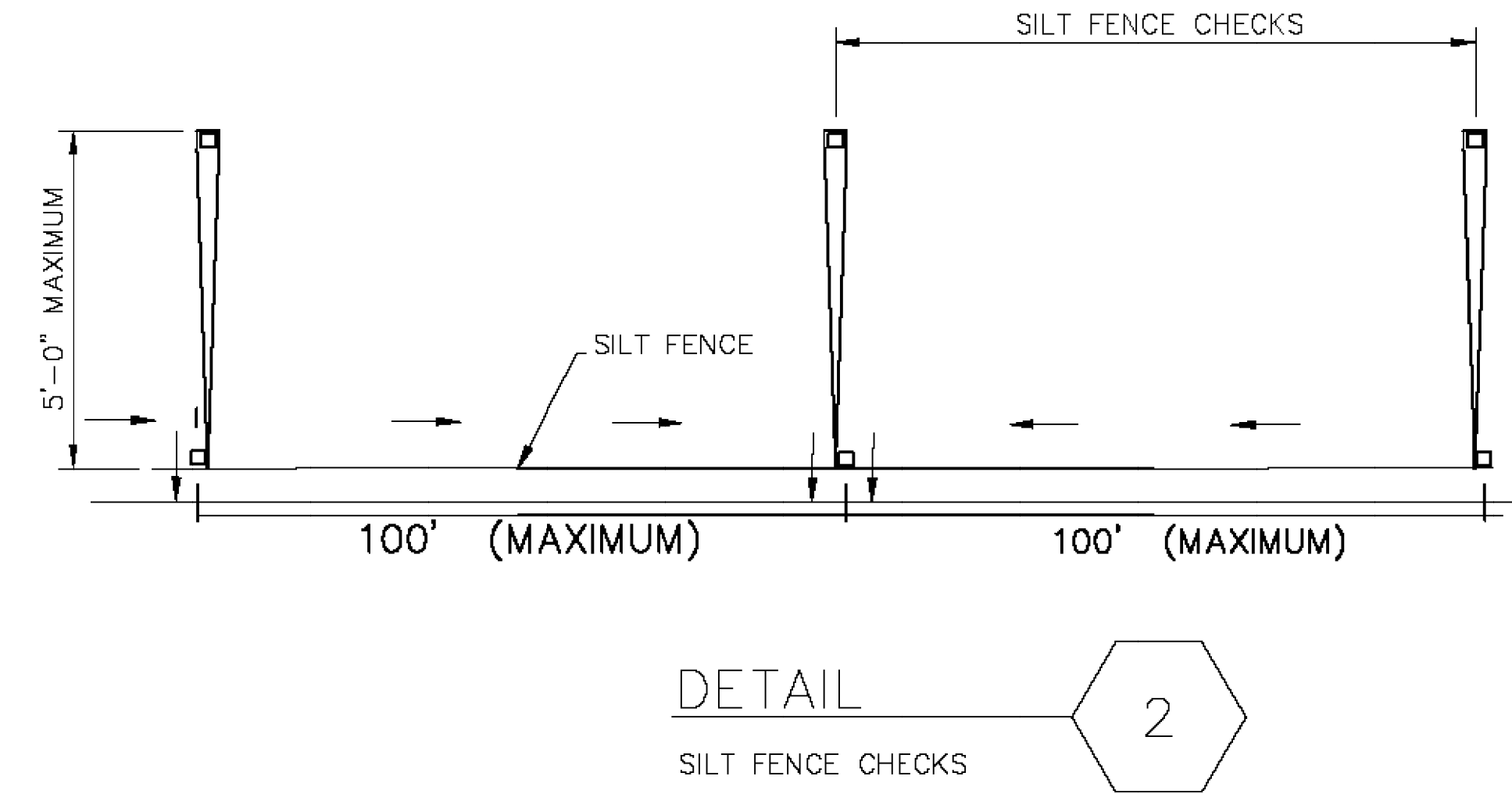
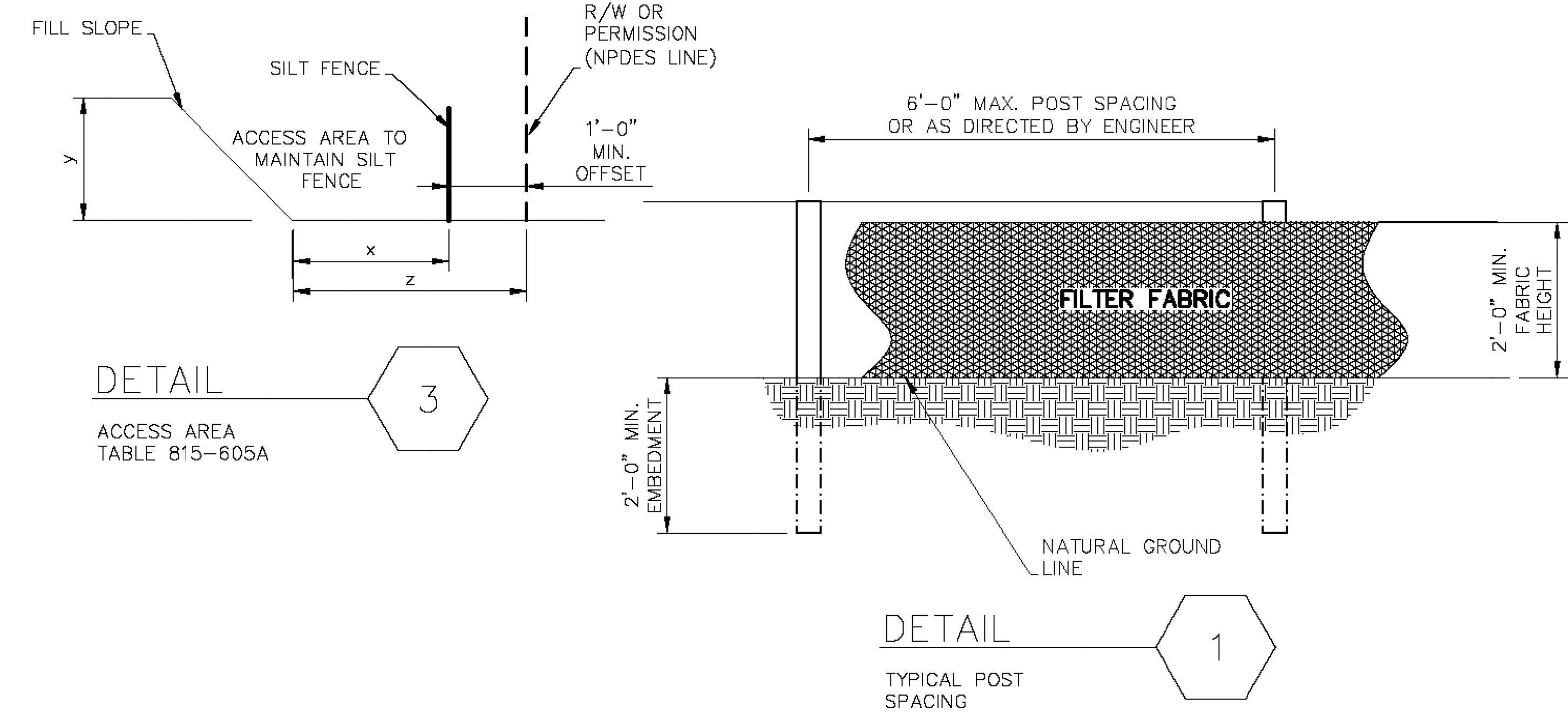
SEE 815-605-10 FOR TEMPORARY DIVERSION DIKE

SEE 815-605-20 FOR TEMPORARY SILT DITCH

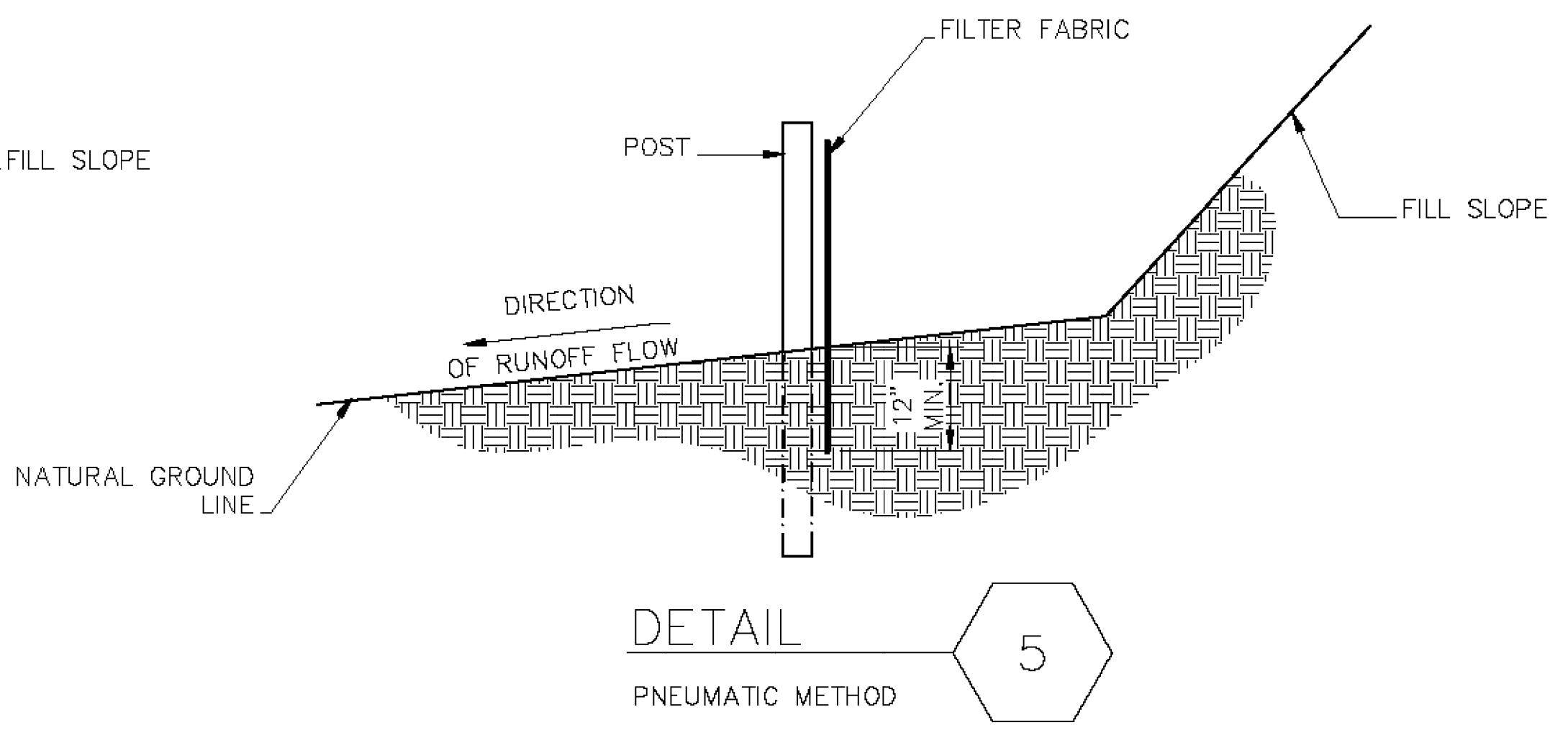
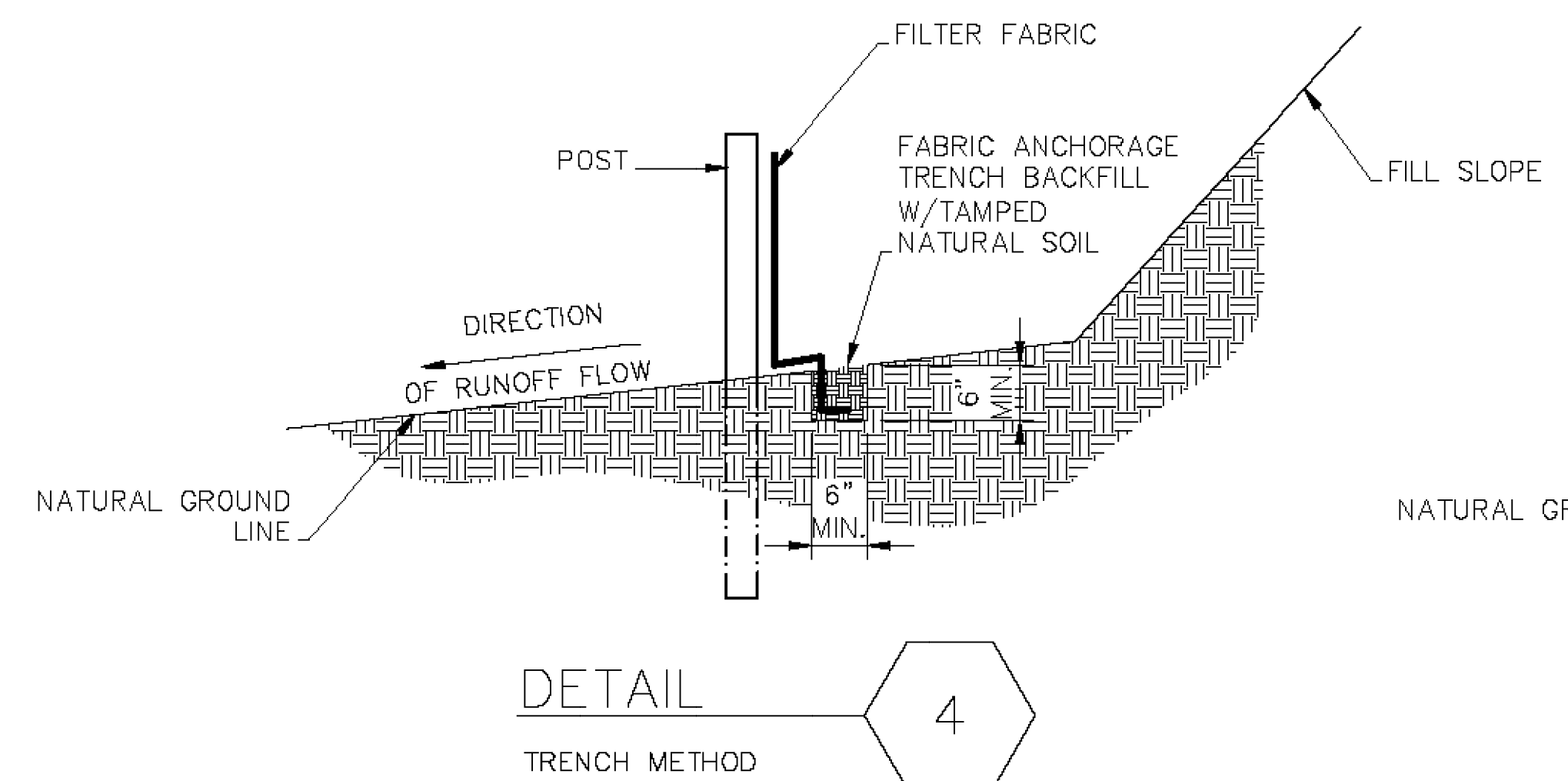
SEE 815-605-30 FOR ROLLED EROSION CONTROL PRODUCT

- NOTES:
- 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).
 - 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.
 - 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.
 - ATTACH FABRIC TO POSTS USING HEAVY-DUTY PLASTIC TIES THAT ARE EVENLY SPACED AND PLACED IN A M TO PREVENT SAGGING OR TEARING OF THE FABRIC. IN ALL CASES TIES SHOULD BE AFFIXED IN NO LESS THAN PLACES.
 - SILT SHALL BE REMOVED AND DISPOSED OF WHEN SILT ACCUMULATES TO 1/3 THE HEIGHT OF THE FENCE. TR SEDIMENT 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.
 - TYPICAL SILT FENCE APPLICATIONS REQUIRE 24 INCHES OF THE FABRIC TO BE ABOVE GROUND. WHEN NEEDED THE HEIGHT OF SILT FENCE FABRIC ABOVE THE GROUND MAY BE GREATER THAN 24". SEE PLANS FOR APPLICATIONS OF HIGHER SILT FENCE, PAY ITEMS, AND INSTALLATION METHODS.
 - 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.
 - PAY ITEMS:

8153000 SILT FENCE	LF
8153005 SILT FENCE EXTRA HEIGHT	LF
8153090 REPLACE/REPAIR SILT FENCE	LF
8154050 REMOVAL OF SILT RETAINED BY SILT FENCE	LF



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



REVEER GROUP, LLC
No. 5324
SOUTH CAROLINA
STATE OF AUTHORIZATION

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

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9	02/02/2021	SCDOT & QUANTITY REVISIONS
10		

DRAWN BY:
MRS/JSM

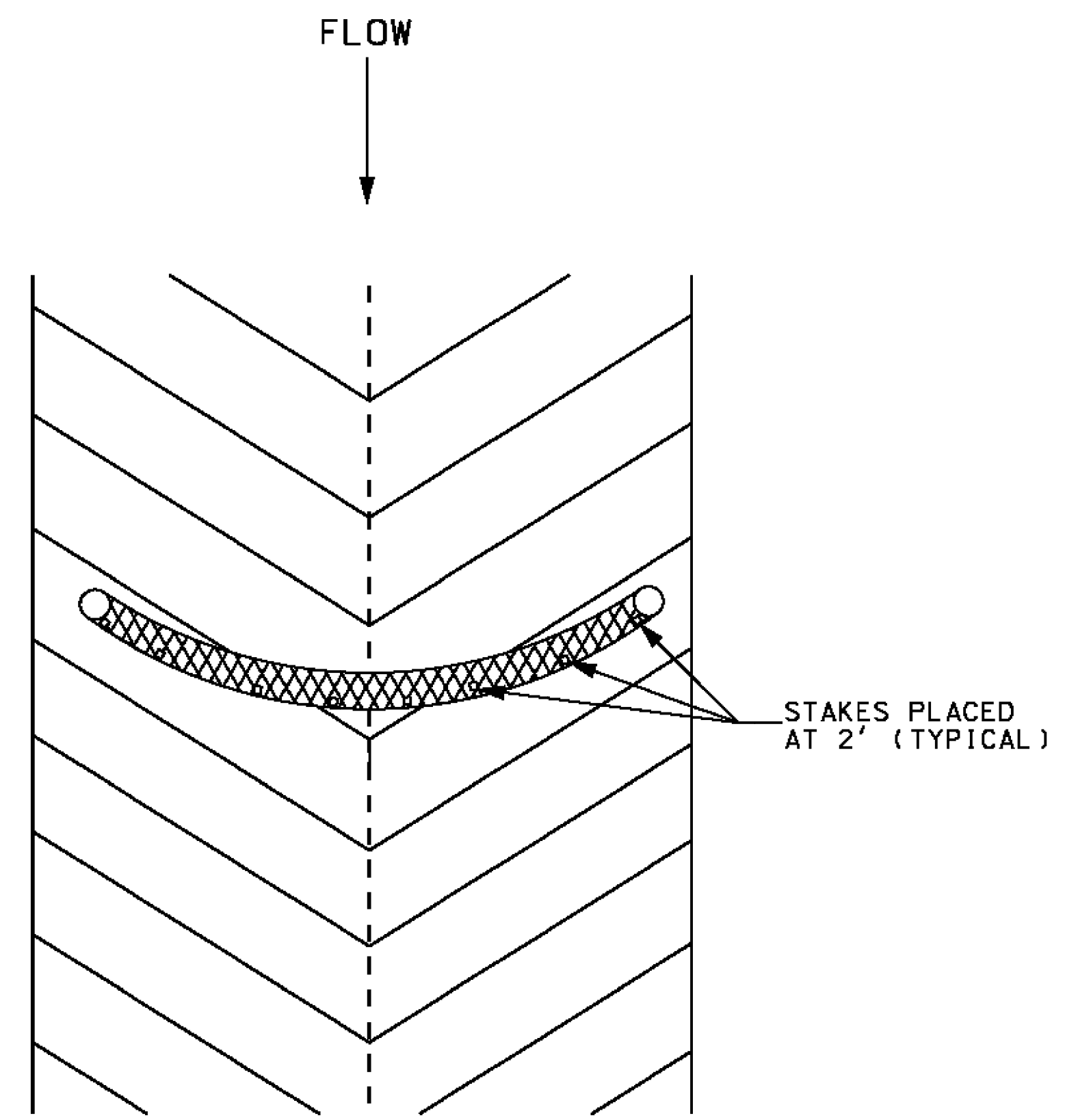
APPROVED BY:
PAF

DATE:
02/02/2021

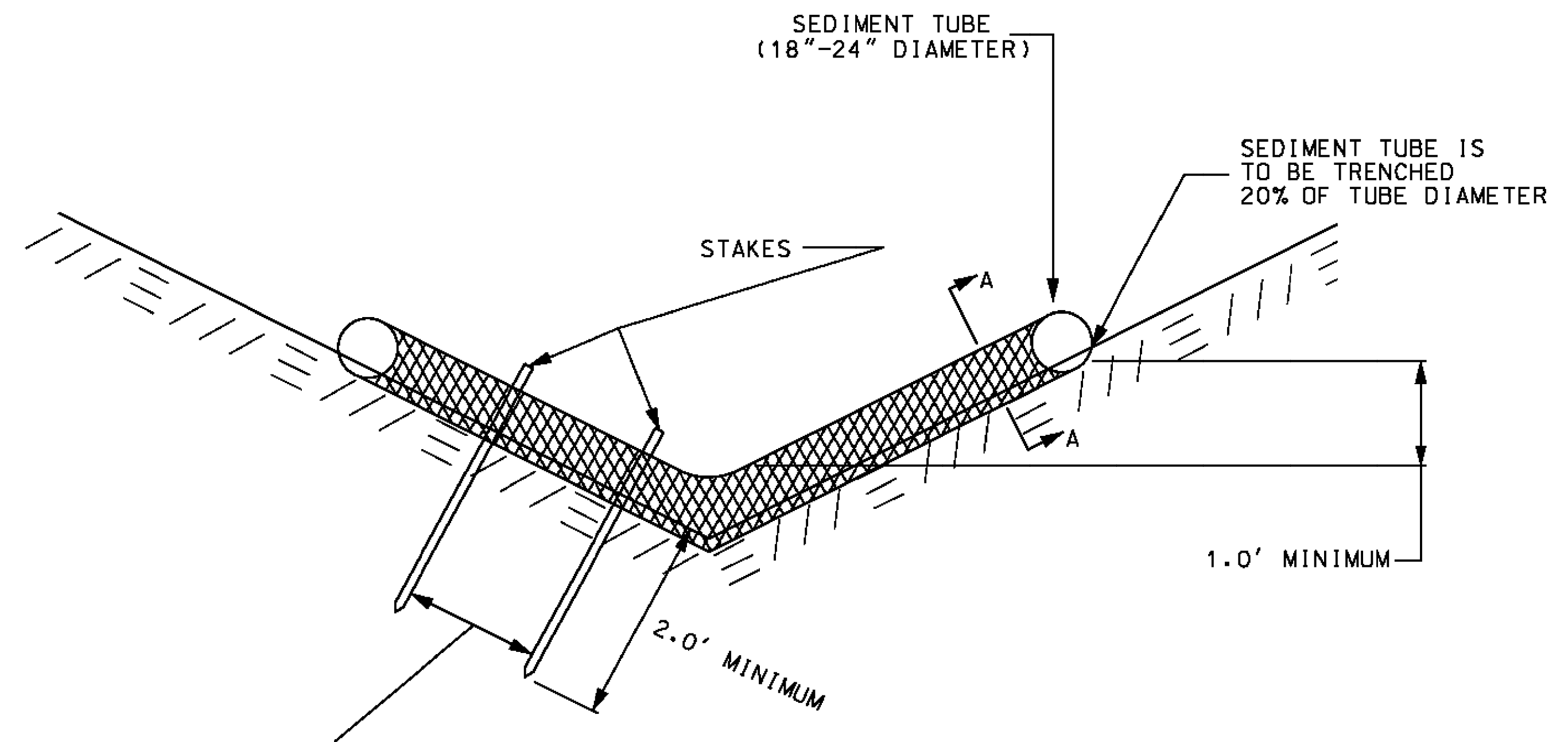
SCDOT DETAILS

12

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TOP VIEW OF DITCH



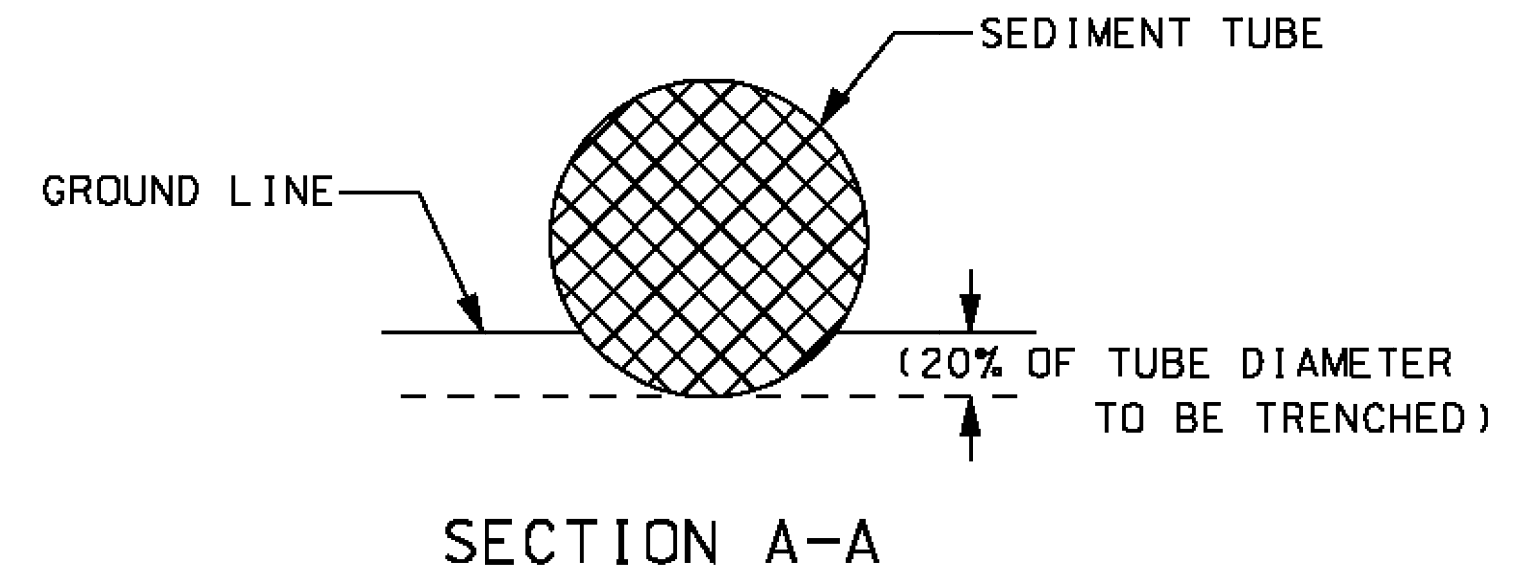
END VIEW OF DITCH

NOTES:

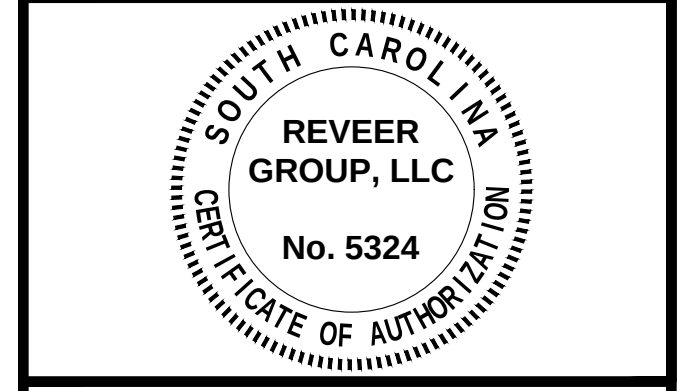
1. SEDIMENT TUBE SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 815 OF THE SCDOT STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION (LATEST EDITION), AND MUST BE LISTED ON SCDOT QUALIFIED PRODUCT LIST NUMBER 57. SEDIMENT TUBES MUST MEET THE CRITERIA OUTLINED IN THE SUPPLEMENTAL SPECIFICATIONS BEFORE BEING 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 TUBE 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 3/4" X 3/4" AND A MAXIMUM MEASURED DIMENSION OF 2" X 2", OR USING STEEL POSTS (1.25 lbs/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

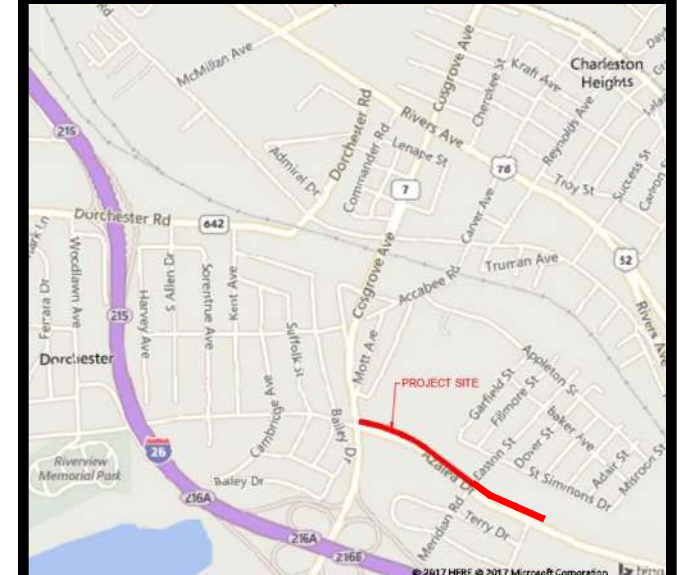


PROJECT OWNER:
CHARLESTON COUNTY
PUBLIC WORKS

PROJECT TITLE:
AZALEA
DRIVE
SIDEWALK

PROJECT LOCATION:
NORTH CHARLESTON, SC

PROJECT NUMBER:
0200102.05



FOR
CONSTRUCTION

ORIGINAL SUBMISSION: 03/16/2018

REVISIONS:

NO.	DATE	DESCRIPTION
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10		

DRAWN BY:
MRS/JSM

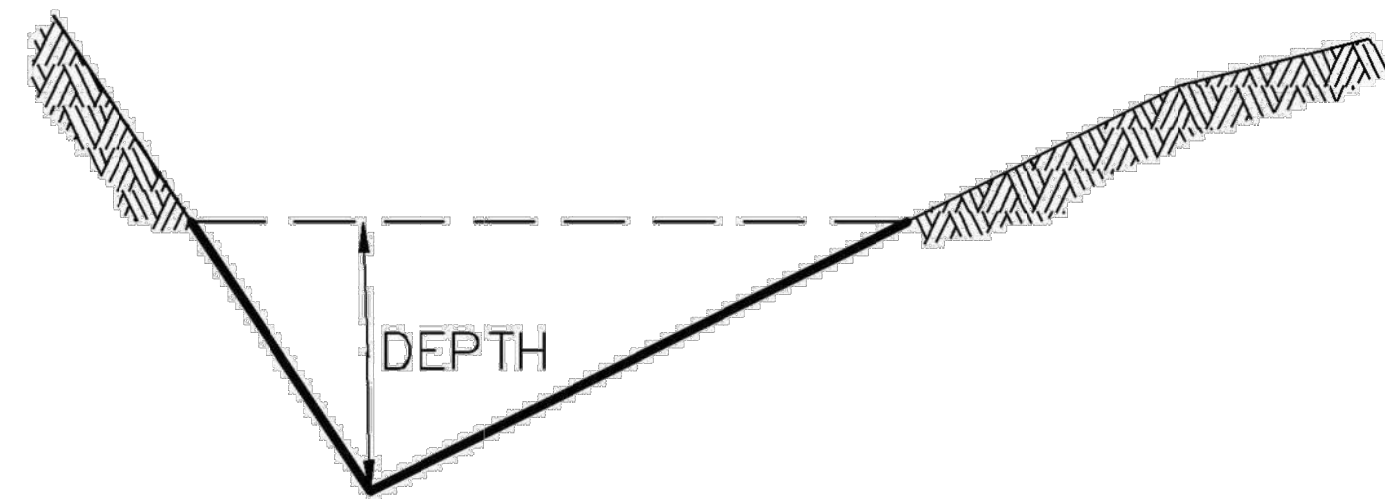
APPROVED BY:
PAF

DATE:
02/02/2021

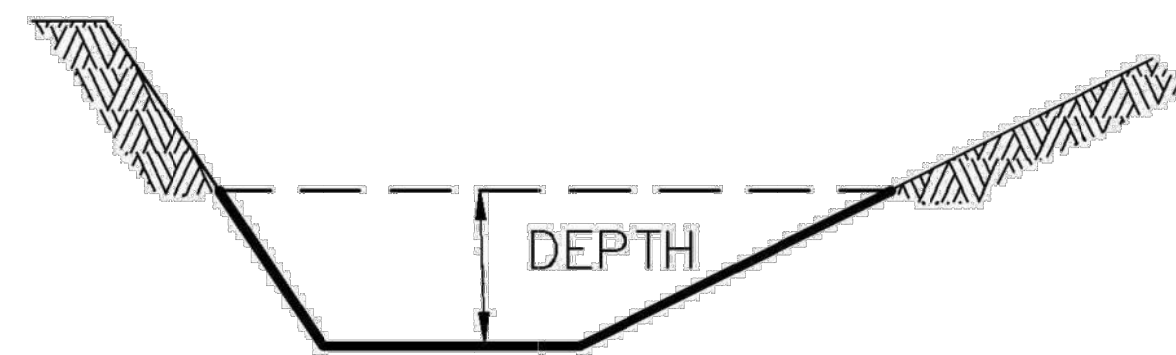
SCDOT DETAILS

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DETAIL 9
ROLLED EROSION CONTROL
V DITCH



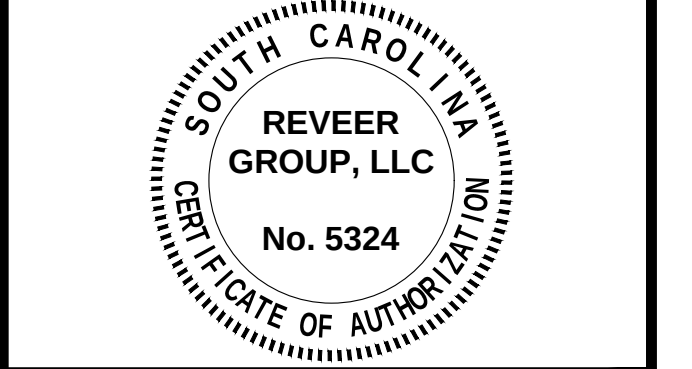
DETAIL 10
ROLLED EROSION CONTROL
FLAT BOTTOM DITCH

NOTES:

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 TEMPORARY EROSION CONTROL BLANKET (ECB) _____ SY
 8151151 TURF REINFORCEMENT MATTING (TRM) TYPE 1 _____ SY
 8151152 TURF REINFORCEMENT MATTING (TRM) TYPE 2 _____ SY
 8151153 TURF REINFORCEMENT MATTING (TRM) TYPE 3 _____ SY

5 SCDOT DETAIL 815-605-30 ROLLED EROSION CONTROL PRODUCT
SCALE: NTS

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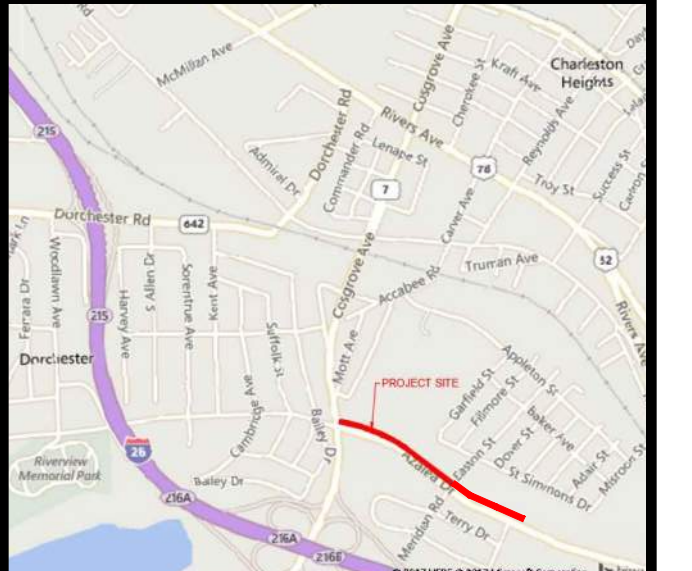


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PUBLIC WORKS**

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DRAWN BY:
MRS/JSM

APPROVED BY:
PAF

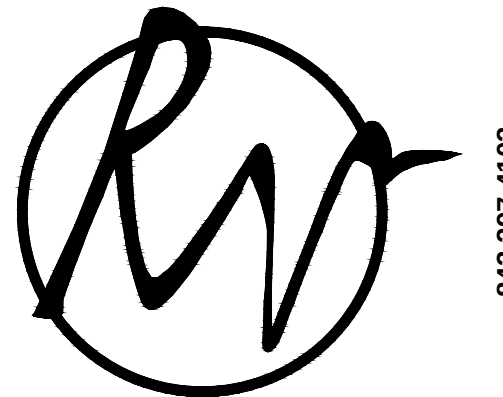
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SCDOT DETAILS

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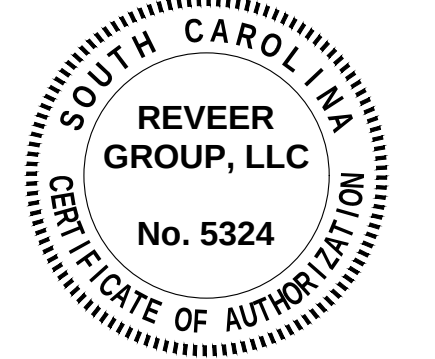
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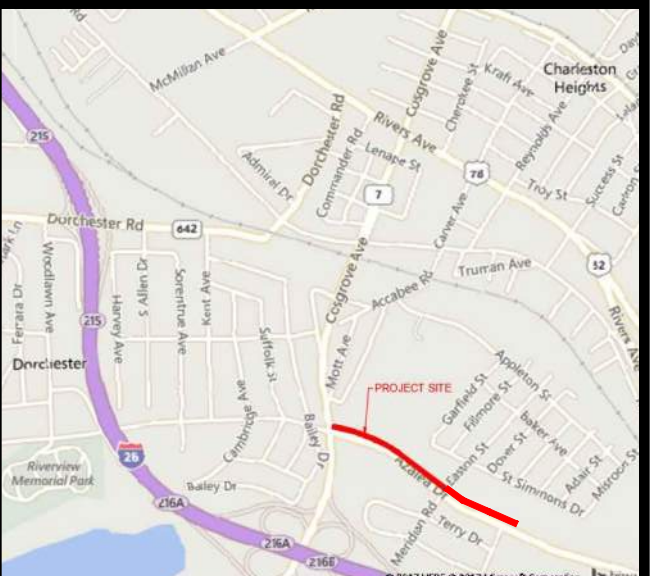


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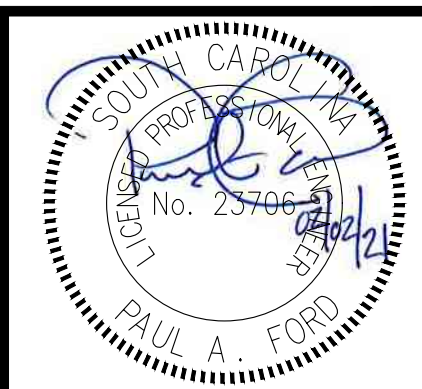
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DRAWN BY:
MRS/JSM

APPROVED BY:
PAF

DATE:
02/02/2021



SCDOT DETAILS

15

6

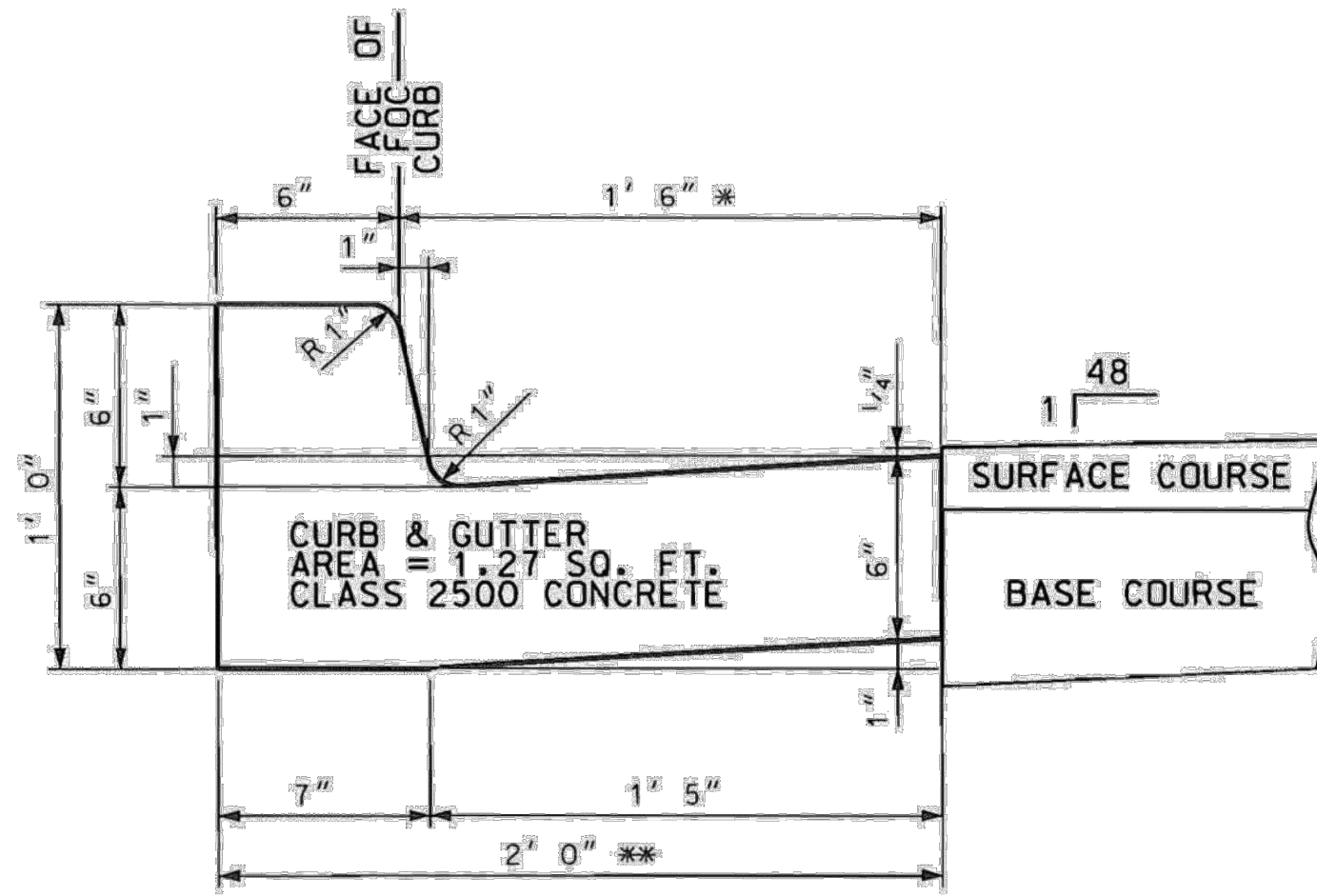
SCDOT-DETAIL 720-205-00 C&G CONCRETE DITCH PAVING

DETAIL REMOVED

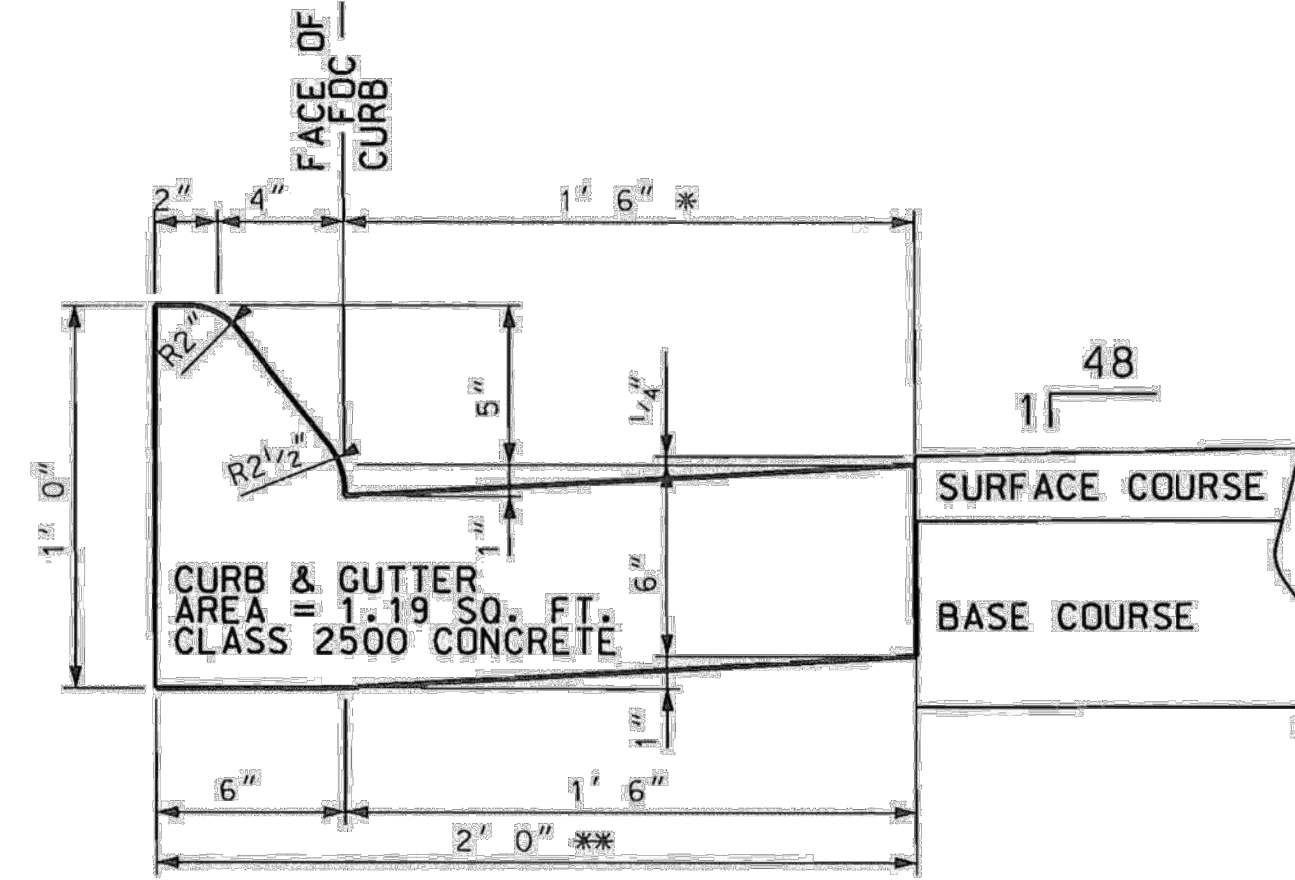
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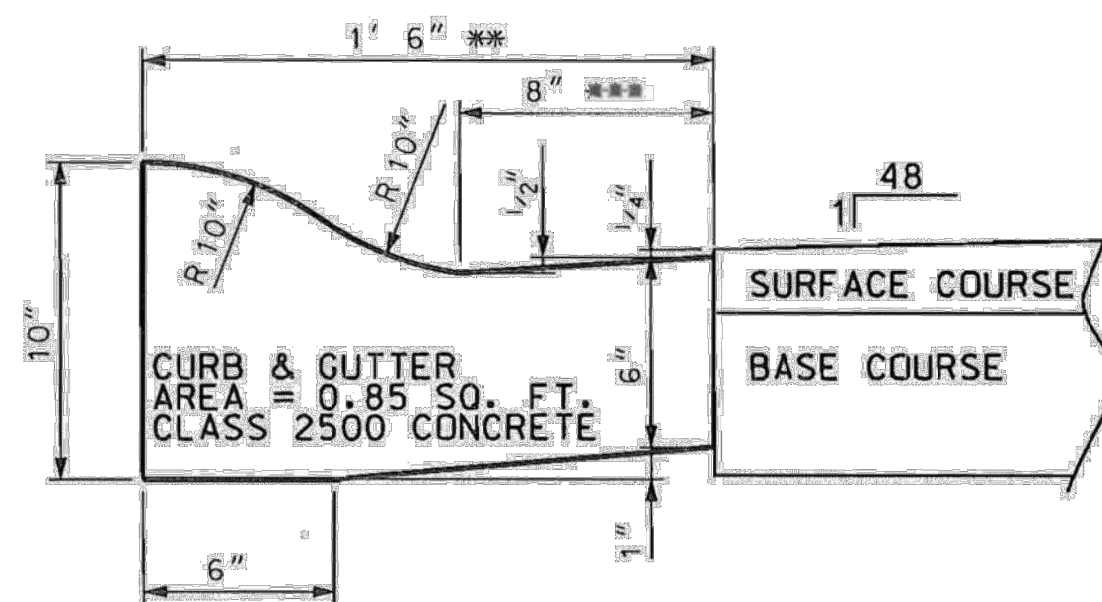
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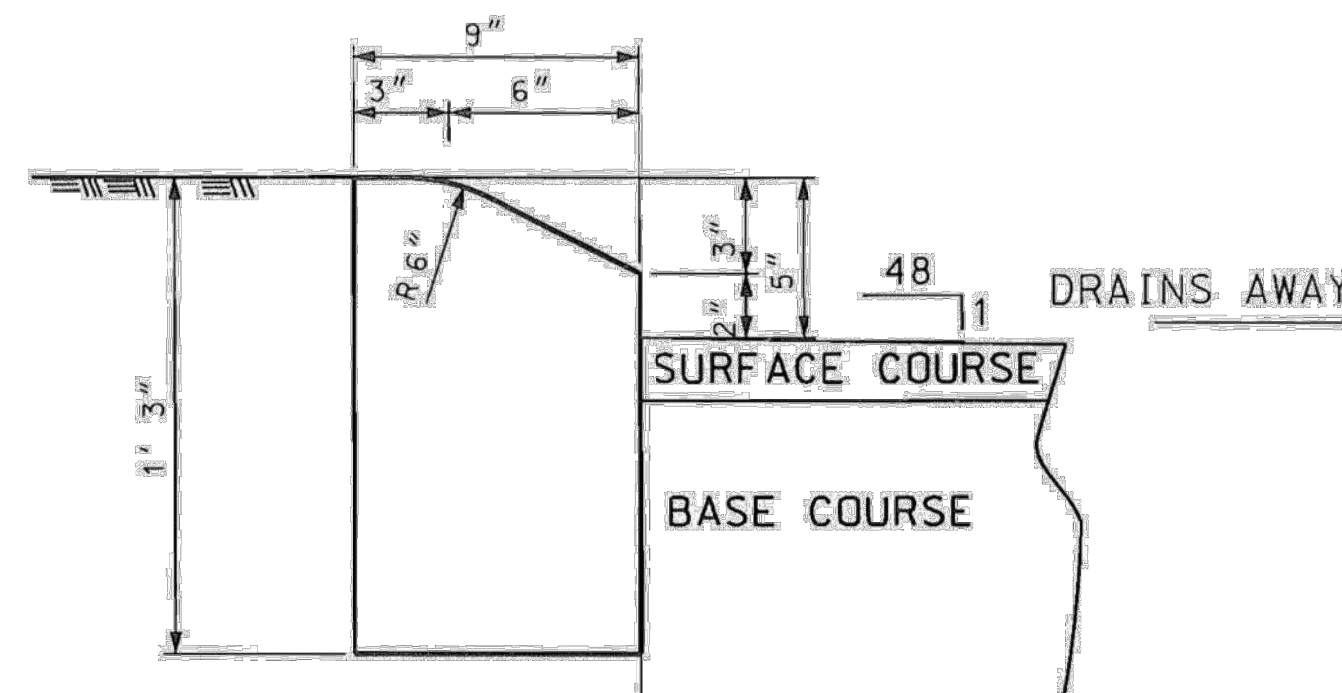
DETAIL 1
SCALE 1"=1'
VERTICAL FACE
*1'-0" FOR ** 1'-6" CURB&GUTTER (SHOWN)
*1'-0" FOR ** 2'-0" CURB&GUTTER
*2'-0" FOR ** 3'-0" CURB&GUTTER



DETAIL 2
SCALE 1"=1'
SLOPING FACE
(A.K.A. MOUNTABLE CURB)
(SELECT APPROPRIATE DRAINAGE STRUCTURES WHEN USING THIS CURB SYSTEM)
PREFERRED AT MAILBOXES
*1'-0" FOR ** 1'-6" CURB&GUTTER (SHOWN)
*1'-0" FOR ** 2'-0" CURB&GUTTER
*2'-0" FOR ** 3'-0" CURB&GUTTER

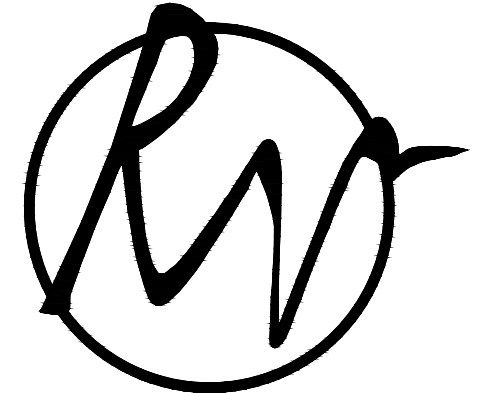


DETAIL 3
SCALE 1"=1'
OGEE
(USE ONLY WHERE CATCH BASIN STYLE DRAINAGE STRUCTURES ARE NOT PRESENT)
PREFERRED AT MAILBOXES
***0'-8" FOR ** 1'-6" CURB&GUTTER (SHOWN)
***1'-2" FOR ** 2'-0" CURB&GUTTER
***1'-8" FOR ** 2'-6" CURB&GUTTER
***2'-2" FOR ** 3'-0" CURB&GUTTER



DETAIL 4
SCALE 1"=1'
9" X 15" CONCRETE CURB (USE ONLY IN MEDIAN APPLICATIONS WHERE ROADWAY CROWN DRAINS AWAY FROM MEDIAN WHEN ADJACENT TO GRASS PLOT OR CONCRETE ISLAND)

- NOTES:**
- USE CONCRETE CURB AND GUTTER WITH VERTICAL FACE UNLESS OTHERWISE NOTED.
 - USE MINIMUM CLASS 2500 CONCRETE.
 - USE 3' TRANSITION AT END OF RADII ON INTERSECTING STREETS AND WHERE CURB IS 6 FEET OR GREATER FROM MAINLINE TRAVEL LANE.
 - USE 10' TRANSITION WHERE CURB IS LESS THAN 6 FEET FROM MAINLINE TRAVEL LANE.
 - INCLUDE COST OF WORK TO CONSTRUCT TRANSITIONS IN THE COST PER LF OF CURB AND GUTTER.
 - DEVELOP GUTTER SLOPE ON HIGH SIDE OF SUPERELEVATION AS SHOWN ON STANDARD DRAWING 150-205-00, EXCEPT ON OGEE CURB & GUTTER.
 - USE DETECTABLE WARNINGS AS REQUIRED ON STANDARD DRAWINGS 720-905-XX.
 - 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 | -----LF |
| 7203210 | CONCRETE CURB AND GUTTER (2'-0") | VERTICAL FACE | -----LF |
| 7203240 | CONCRETE CURB AND GUTTER (2'-6") | VERTICAL FACE | -----LF |
| 7203310 | CONCRETE CURB AND GUTTER (3'-0") | VERTICAL FACE | -----LF |
| 7203120 | CONCRETE CURB AND GUTTER (1'-6") | SLOPING FACE | -----LF |
| 7203220 | CONCRETE CURB AND GUTTER (2'-0") | SLOPING FACE | -----LF |
| 7203245 | CONCRETE CURB AND GUTTER (2'-6") | SLOPING FACE | -----LF |
| 7203320 | CONCRETE CURB AND GUTTER (3'-0") | SLOPING FACE | -----LF |
| 7203130 | CONCRETE CURB AND GUTTER (1'-6") | OGEE | -----LF |
| 7203230 | CONCRETE CURB AND GUTTER (2'-0") | OGEE | -----LF |
| 7203265 | CONCRETE CURB AND GUTTER (2'-6") | OGEE | -----LF |
| 7203330 | CONCRETE CURB AND GUTTER (3'-0") | OGEE | -----LF |
| FOR CURB ONLY | | | |
| 7201000 | CONCRETE CURB (9" X 15") | | -----LF |
| FOR CONCRETE MEDIAN | | | |
| 7206000 | CONCRETE MEDIAN | | -----SY |
| 7206100 | CONCRETE MEDIAN OVERLAY | | -----SY |



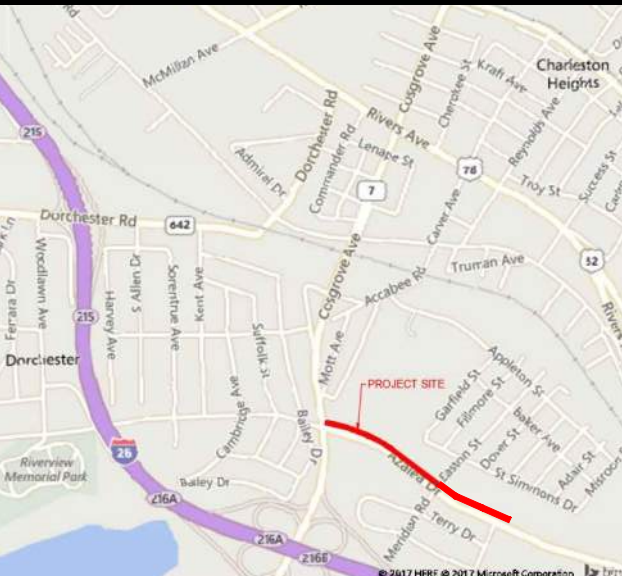
REVEER GROUP
SOUTH CAROLINA
REVEER GROUP, LLC
No. 5324
STATE OF SOUTH CAROLINA

PROJECT OWNER:
CHARLESTON COUNTY PUBLIC WORKS

PROJECT TITLE:
AZALEA DRIVE SIDEWALK

PROJECT LOCATION:
NORTH CHARLESTON, SC

PROJECT NUMBER:
0200102.05



FOR CONSTRUCTION

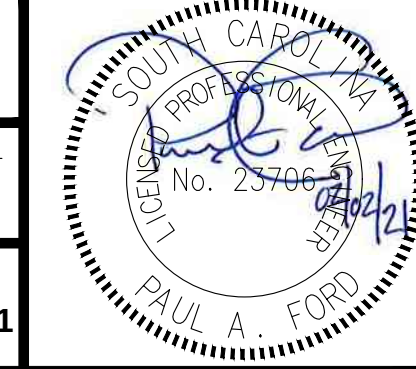
ORIGINAL SUBMISSION: 03/16/2018
REVISIONS:

NO.	DATE	DESCRIPTION
1	05/17/2018	SCDOT COMMENTS
2	11/05/2019	SCDOT COMMENTS
3	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
10		

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MRS/JSM

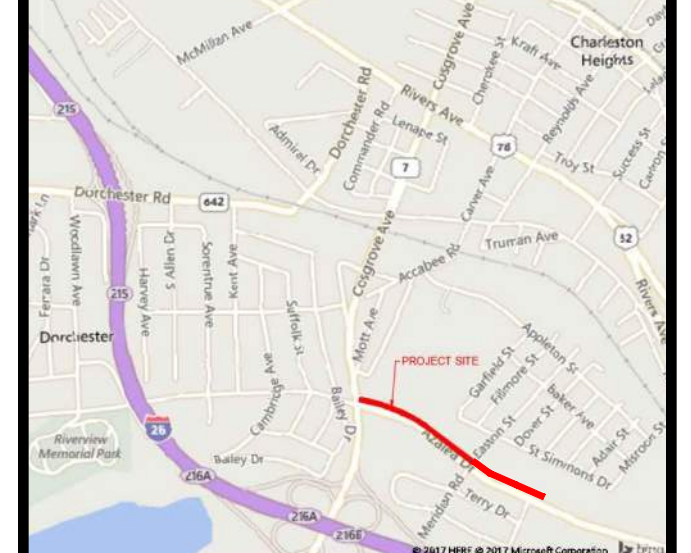
APPROVED BY:
PAF

DATE:
02/02/2021



SCDOT DETAILS

16



ORIGINAL SUBMISSION: 03/16/2018


REVISIONS:

NO.	DATE	DESCRIPTION
1	05/17/2018	SCDOT COMMENTS
2	11/05/2019	SCDOT COMMENTS
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10		

DRAWN BY:
MRS/JSM

APPROVED BY:
PAF

DATE:
02/02/2021

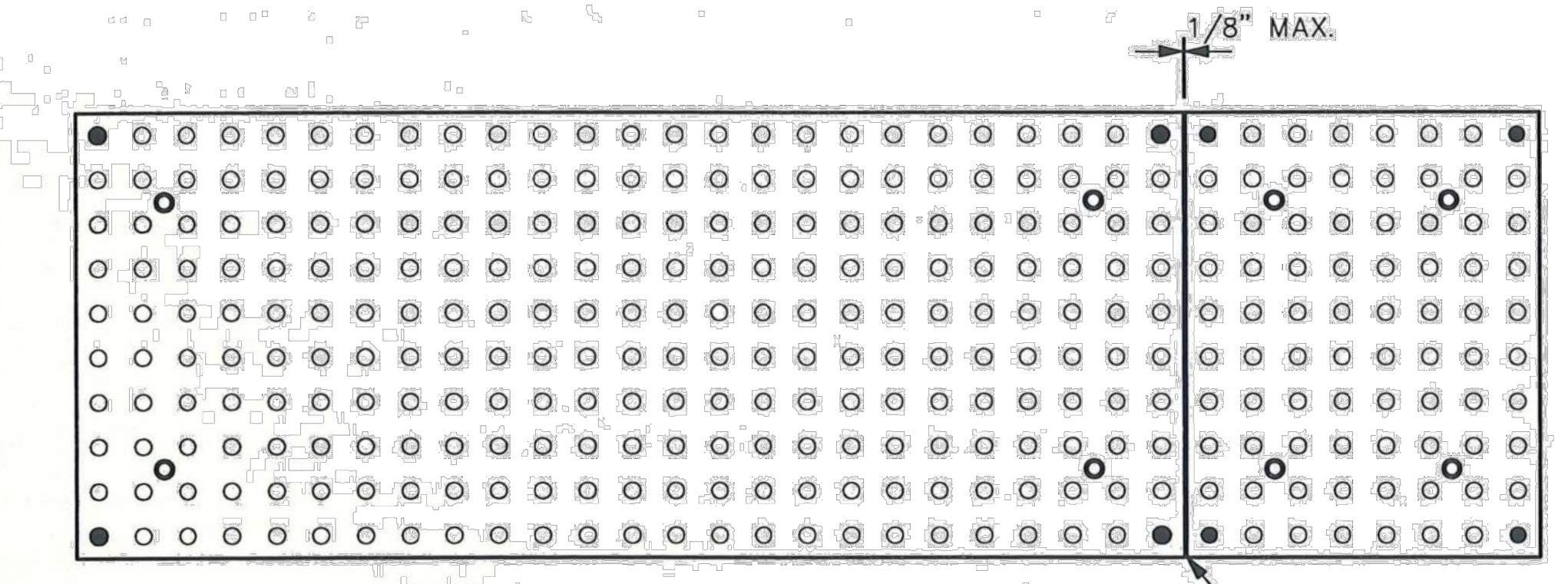


INSTALLATION NOTES:

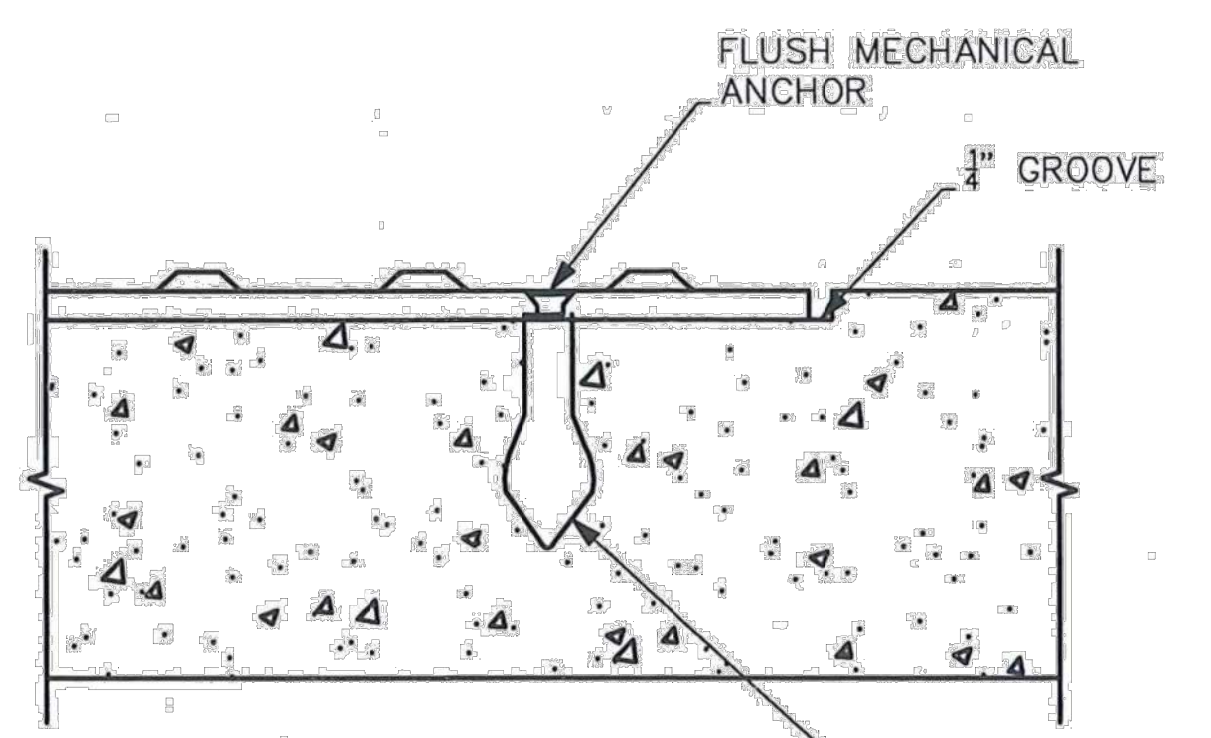
- SEE SHEETS 720-901-XX FOR GENERAL NOTES. USE WET INSET STYLE DETECTABLE WARNINGS LISTED ON SCDOT QUALIFIED PRODUCT LIST 61 ONLY IN LOCATIONS WHERE NEW CONCRETE IS BEING POURED FOR RAMPS. DETAILS SHOWN MAY INCLUDE PROPRIETARY COMPONENTS, HOWEVER, ANY SYSTEM LISTED ON QPL61 AS WET INSET OR REPLACEABLE IS ACCEPTABLE FOR USE IN THESE CONDITIONS.
- FOLLOW DETECTABLE WARNING MATERIAL MANUFACTURER'S INSTALLATION INSTRUCTIONS AND 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.
- 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.
- 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.
- 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.
- 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.
- SCORE A 1/4" DEEP AND WIDE GROOVE AROUND THE DETECTABLE WARNING.
- APPLY WEIGHTS IF NECESSARY TO KEEP DETECTABLE WARNING FLUSH WITH TOP OF CONCRETE.
- CLEAN SURFACE OF LOOSE CONCRETE AND DEBRIS. IF PRESENT, REMOVE PROTECTIVE COVERING FROM DETECTABLE WARNING MATERIAL.

REPLACEMENT NOTES:

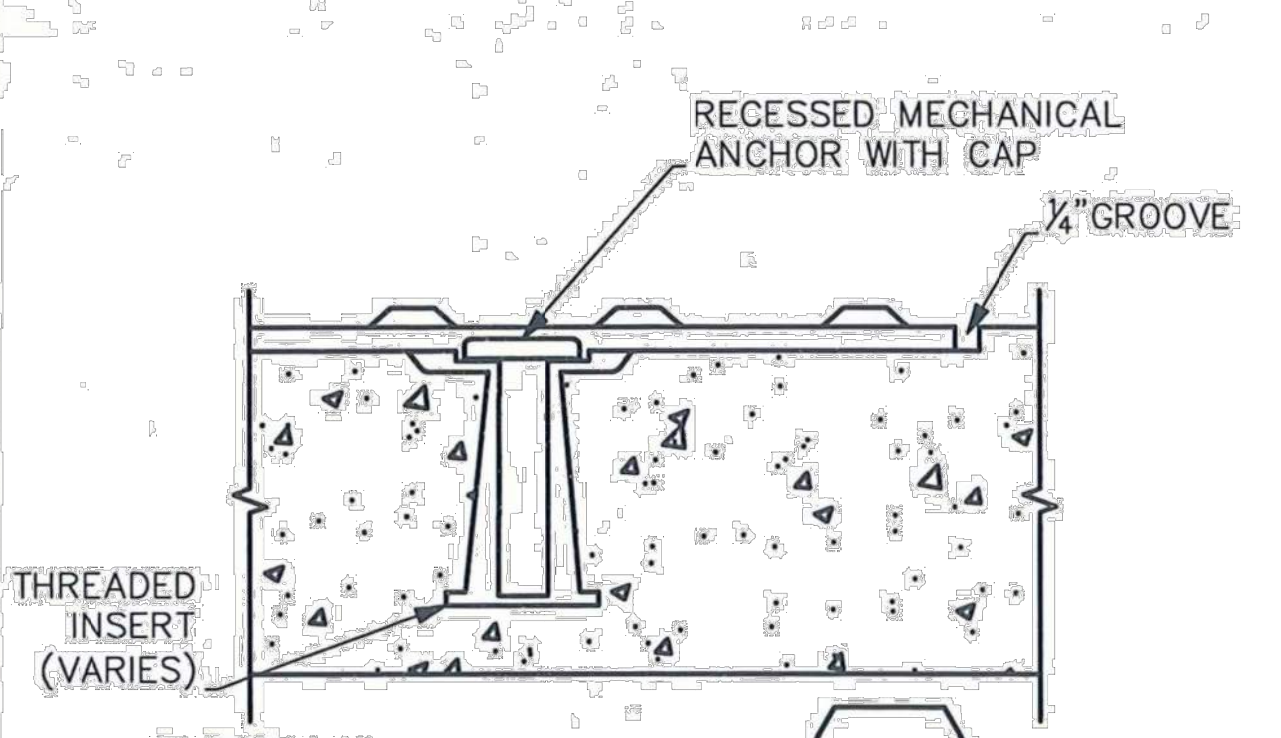
- VERIFY THAT EXISTING WARNING MATERIAL IS A REPLACEABLE SYSTEM. IF EXISTING WARNING MATERIAL IS DAMAGED, ORDER REPLACEMENT MATS FROM SAME MANUFACTURER AS EXISTING INSTALLATION.
- EXPOSE FASTENERS AND REMOVE.
- TAP PERIMETER OF TILE WITH A RUBBER Mallet TO LOOSEN THE BOND OF DETECTABLE WARNING MATERIAL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



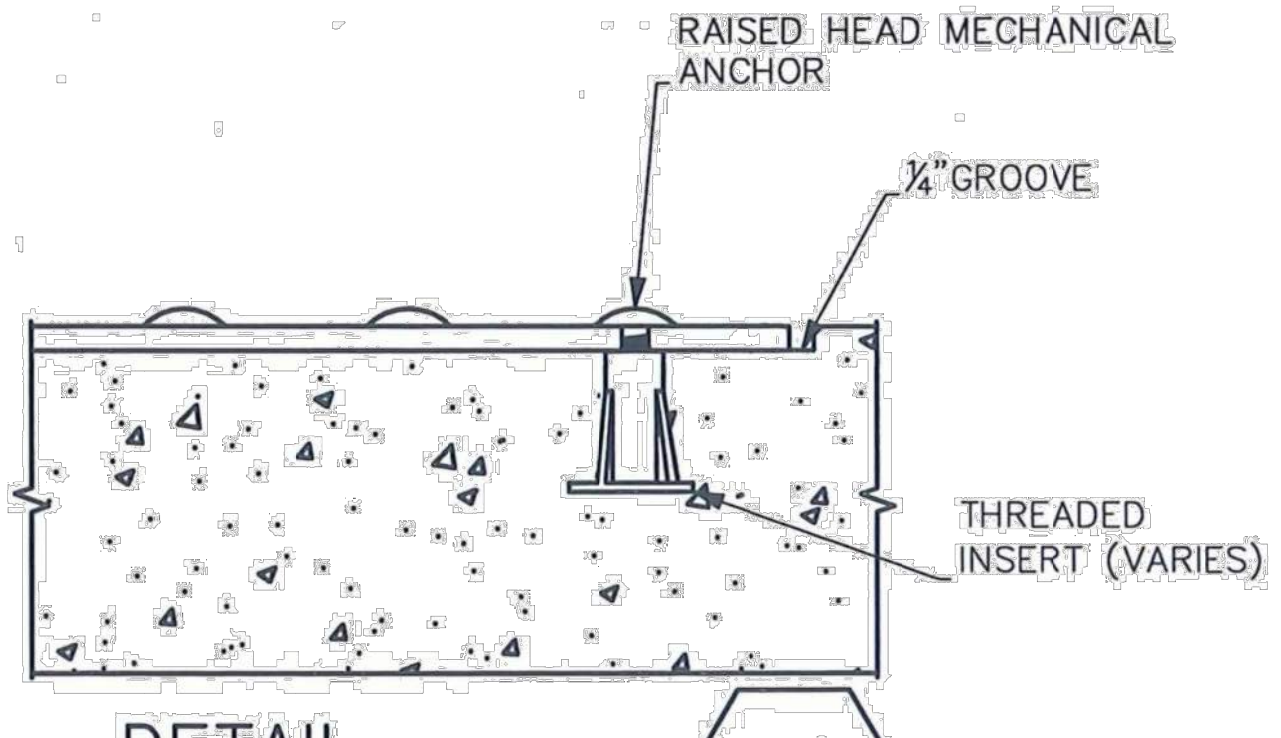
DETAIL 1
PLAN VIEW
DETECTABLE WARNING



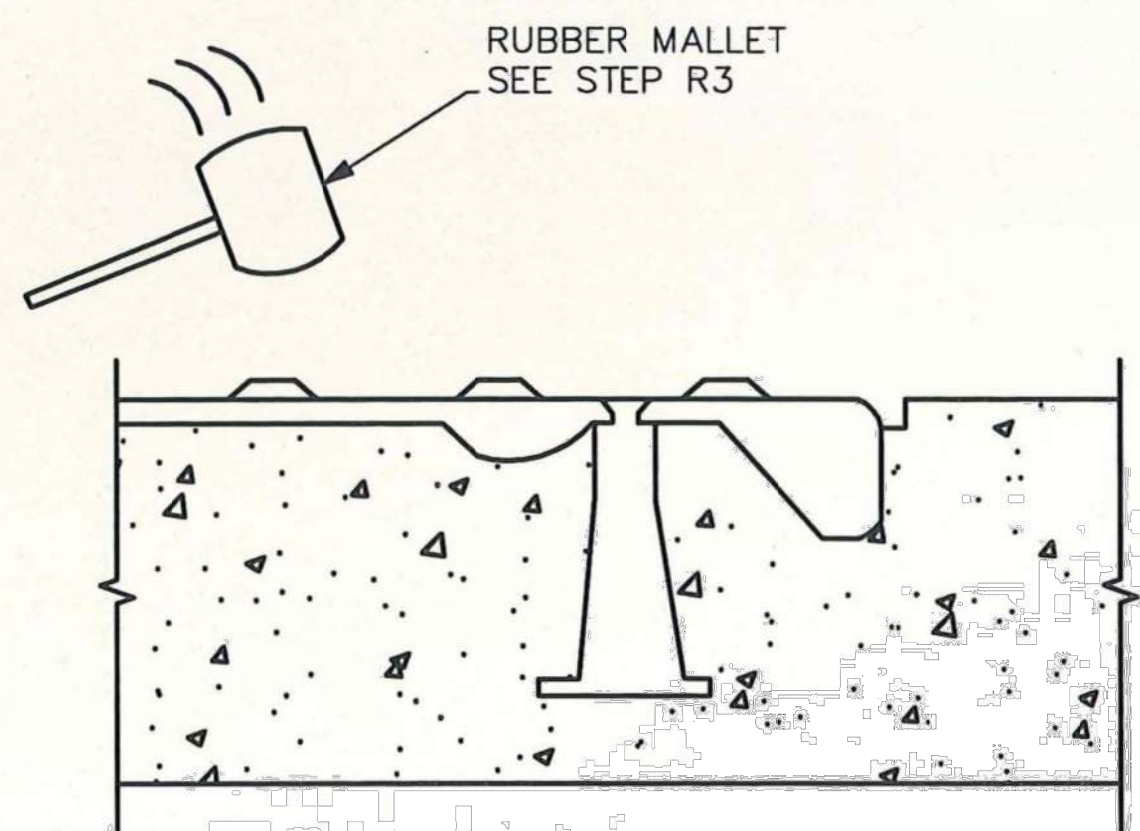
DETAIL 2
FLUSH MECHANICAL ANCHOR OPTION 1
WET INSET OR REPLACEABLE INSTALLED



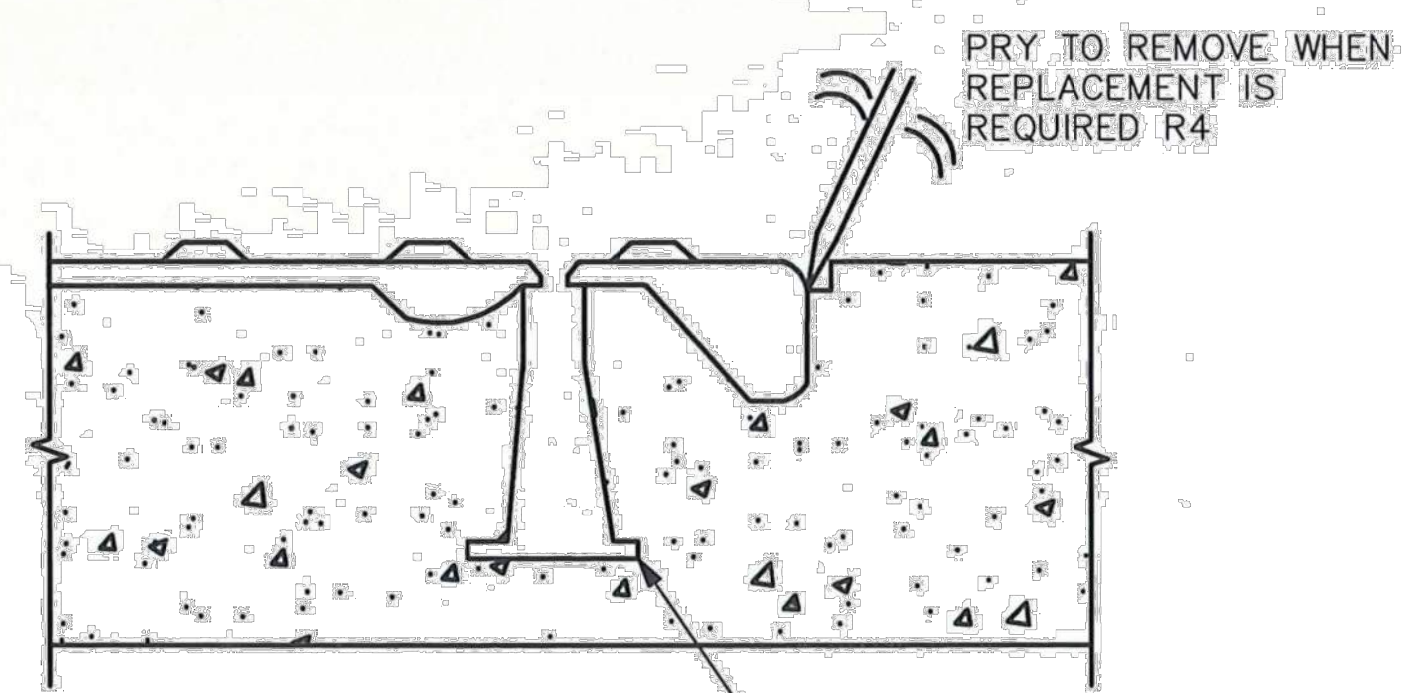
DETAIL 3
RECESSED MECHANICAL ANCHOR WITH CAP OPTION 2 (FLUSH MECHANICAL ANCHORS MUST CONFORM TO ADA REQUIREMENTS)



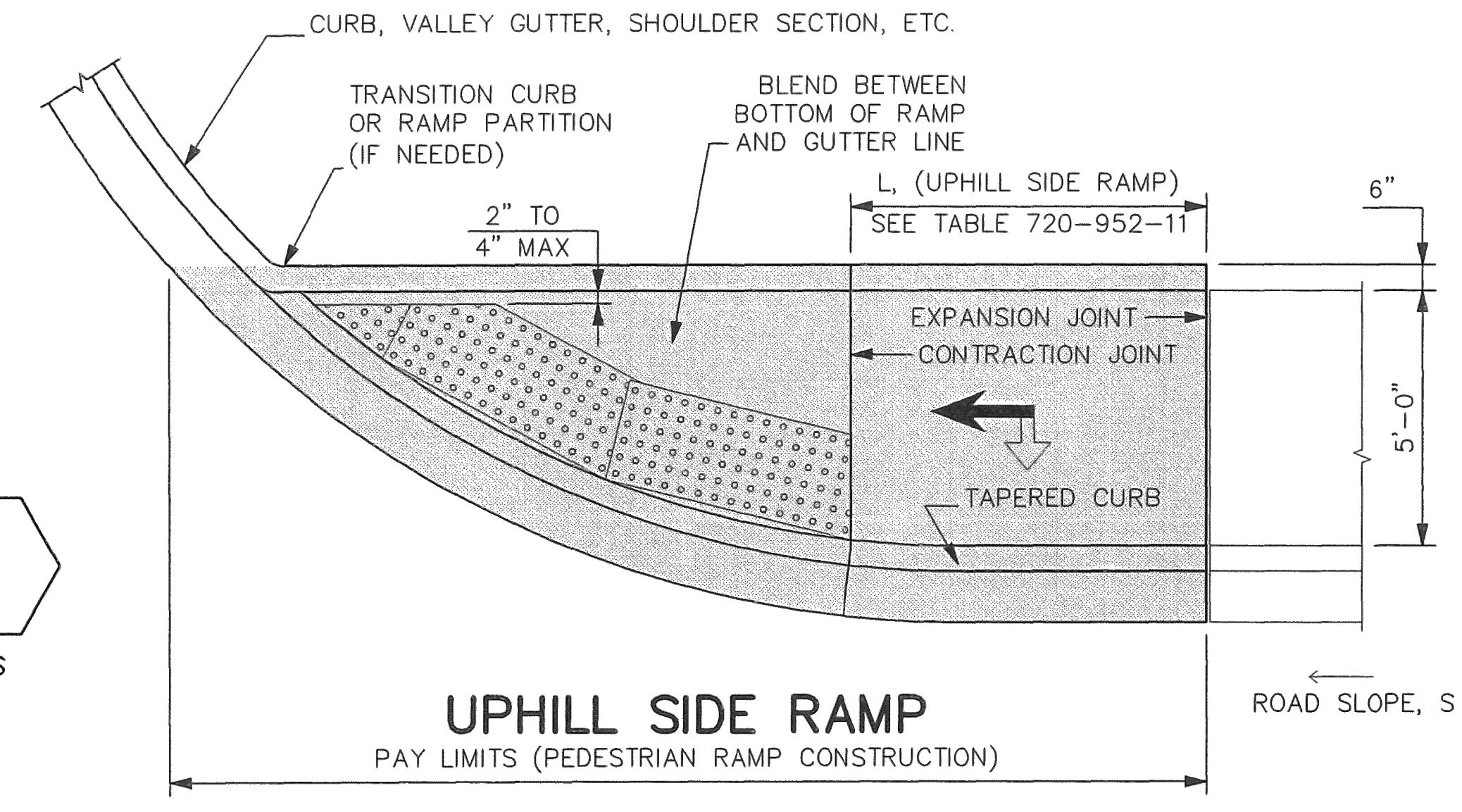
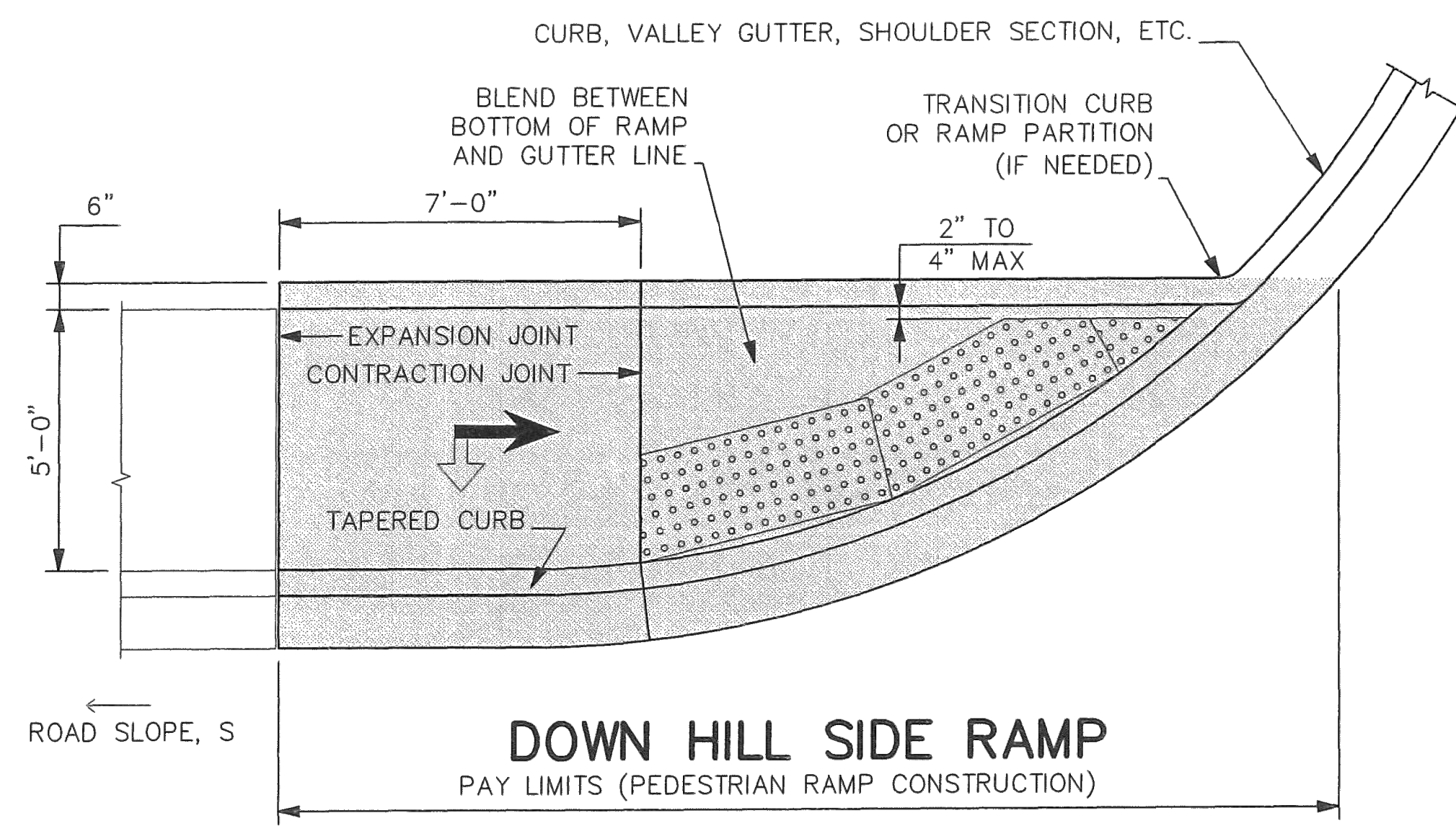
DETAIL 4
RAISED HEAD MECHANICAL ANCHOR OPTION 3, USE RAISED HEAD THAT MOST CLOSELY MATCHES (WITHOUT EXCEEDING THE SIZE OF THE TRUNCATED DOME, AND LOCATE HEAD IN PLACE OF A REGULAR DOME SPACING)



DETAIL 5
REPLACEABLE LOOSENING SURFACE FOR REMOVAL



DETAIL 6
REPLACEABLE PRY EXISTING SURFACE FOR REMOVAL



DETAIL 1

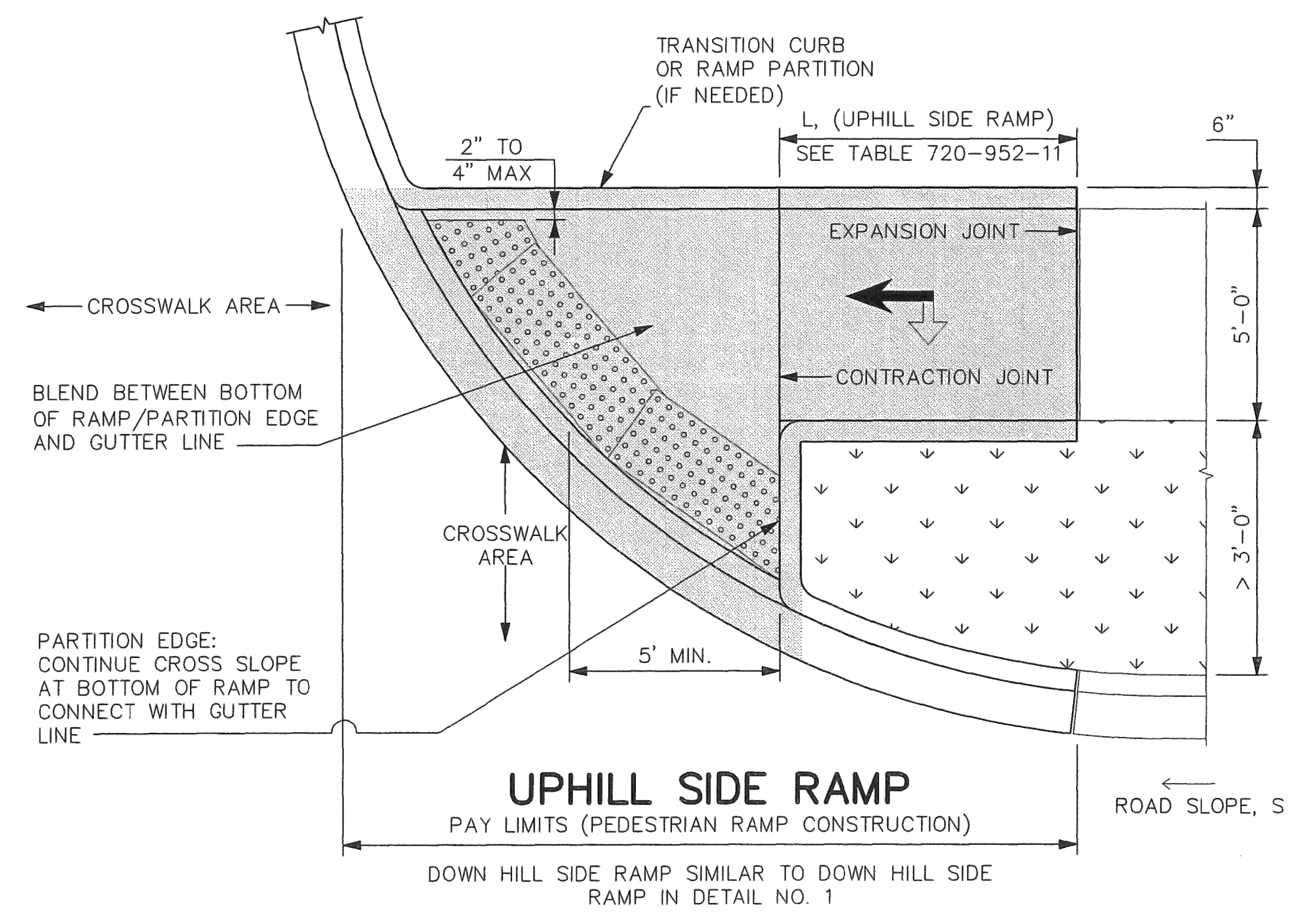
SCALE: 3/16" = 1'-0" PLAN

NO GRASS STRIP

SEE 720-901-03 FOR SYMBOLS

SINGLE CROSSWALK

- NOTES:**
- SEE STANDARD DRAWINGS 720-901-XX FOR GENERAL NOTES AND 720-901-03 FOR SYMBOLS.
 - SEE STANDARD DRAWINGS 720-91X-XX FOR INSTALLATION PROCEDURES FOR DETECTABLE WARNING SURFACE MATERIALS.
 - SEE STANDARD DRAWINGS 720-929-XX FOR VARIANTS TO THIS STANDARD.
 - QUANTITIES IN TABLE 720-952-11 ASSUME THAT DOWN HILL SIDE RAMP IS ALWAYS AT LEAST 7'-0" LONG.
 - 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 2

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

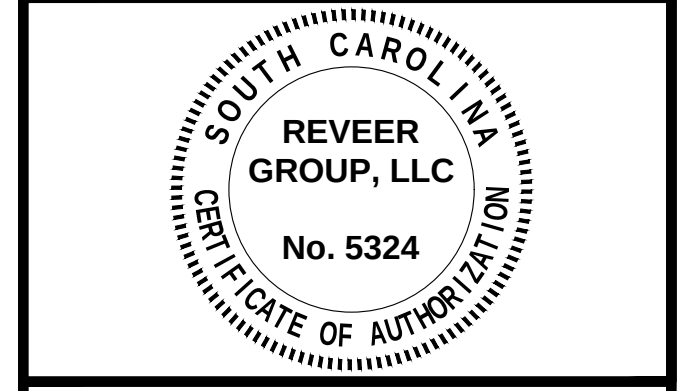
> 3'-0" GRASS STRIP

SEE 720-901-03 FOR SYMBOLS

CONSIDER USING PERPENDICULAR RAMP TO CROSS MAIN LINE DUAL CROSSWALK

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

ROAD SLOPE, S (%)	L, (UPHILL SIDE RAMP), [FT]
S ≤ 1%	7'-0"
1% > S ≤ 3%	10'-0"
S > 3%	15'-0"

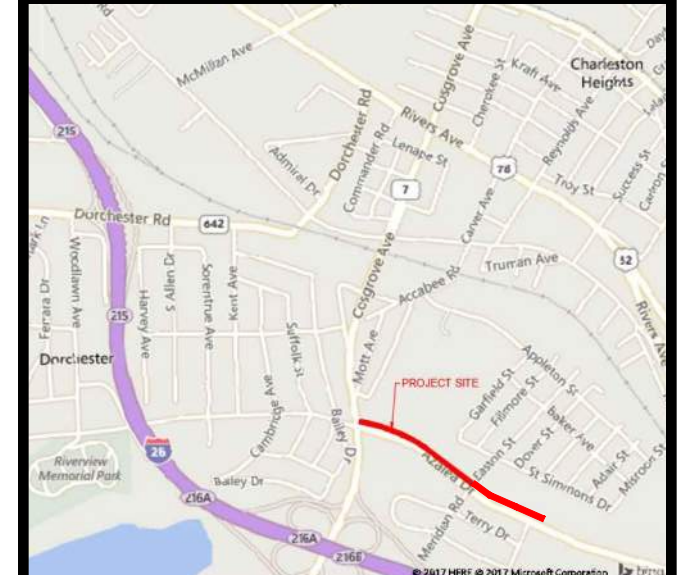


PROJECT OWNER:
CHARLESTON COUNTY PUBLIC WORKS

PROJECT TITLE:
AZALEA DRIVE SIDEWALK

PROJECT LOCATION:
NORTH CHARLESTON, SC

PROJECT NUMBER:
0200102.05



FOR CONSTRUCTION

ORIGINAL SUBMISSION: 03/16/2018

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NO.	DATE	DESCRIPTION
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MRS/JSM

APPROVED BY:
PAF

DATE:
02/02/2021

SCDOT DETAILS

S:\200102.05 - Azalea Drive Sidewalk - Documents\2 - Design\CAD\C3D\Plan Sheets\Azalea SW-Details (Enlarged).dwg, 2/4/2021, 1:56:10 PM, P.FORD