

GRADING LEGEND

TC:	TOP OF CURB ELEVATION
BC:	BOTTOM OF CURB ELEVATION
TW:	TOP OF WALL ELEVATION
BW:	BOTTOM OF WALL ELEVATION
TI:	TOP OF ISLAND ELEVATION
BI:	BOTTOM OF ISLAND ELEVATION
FF:	FINISHED FLOOR ELEVATION
FS:	FINISHED SURFACE ELEVATION
P:	PAVEMENT ELEVATION
G:	GROUND ELEVATION
RIM:	STRUCTURE RIM ELEVATION
ME:	MATCH EXISTING

DRAINAGE STRUCTURE CALLOUT
 HENRICO COUNTY STANDARD AND GUTTER
 SPELLING CURB AND GUTTER
 ADA ACCESSIBLE AREAS

- ### GRADING NOTES
1. THE ROOF/LANDSCAPE DRAINAGE SYSTEM HAS BEEN DESIGNED IN ACCORDANCE WITH THE CURRENT EDITION OF THE INTERNATIONAL PLUMBING CODE.
 2. PIPE LENGTHS ARE MEASURED FROM CENTER OF CHAMBER TO CENTER OF CHAMBER.
 3. VDOT STANDARD ST-1 STEPS ARE REQUIRED ON ALL STRUCTURES WITH HEIGHT GREATER THAN 4 FEET.
 4. ADA ACCESSIBLE PARKING SPACES ARE SHOWN AS SHADED AND DESIGNED WITH A MAXIMUM 1.5% SLOPE IN ALL DIRECTIONS. CONTRACTOR TO ENSURE SLOPE DOES NOT EXCEED 2.0% IN ANY DIRECTION.
 5. PROPOSED SIDEWALK/ADA ACCESSIBLE ROUTES ARE SHOWN AS SHADED. CONTRACTOR TO ENSURE CROSS SLOPE DOES NOT EXCEED 2.0% AND LONGITUDINAL SLOPE DOES NOT EXCEED 5.0%.
 6. ALL CURB INLETS TO HAVE REBAR TRASH RACK INSTALLED. SEE NOTE ON SHEET CG-501.

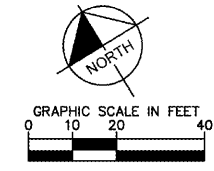
STRUCTURE TABLE

STRUCTURE NAME	DESCRIPTION	RIM	HEIGHT
STR. 100	VDOT STD. DI-7	252.81	3.34
STR. 101	VDOT MOD. MH-1 CONTROL STRUCTURE	260.67	12.77
STR. 102 *	VDOT STD. DI-2C; L=8'	261.12	4.98
STR. 103	VDOT STD. 48" MH-1	263.20	7.56
STR. 104 *	VDOT STD. DI-2B; L=6'	262.45	6.22
STR. 105 **	VDOT STD. DI-3B; L=6'	262.23	7.48
STR. 106 **	VDOT STD. DI-3B; L=6'	257.71	5.33
STR. 107 *	VDOT STD. DI-3B; L=6'	261.86	7.28
STR. 202	VDOT STD. DI-3A	256.72	6.74
STR. 203	VDOT STD. DI-3B; L=6'	257.67	7.24
STR. 204	VDOT STD. DI-3B; L=6'	258.61	4.15
STR. 205	VDOT STD. 48" MH-1	259.29	5.03
STR. D-1	DETENTION	260.87	
STR. D-2	DETENTION	261.17	
STR. D-3	DETENTION	261.47	
STR. D-4	DETENTION	262.47	
STR. D-5	DETENTION	262.19	
STR. D-6	DETENTION	262.22	
STR. EX-1	EX. INLET	258.01	2.77
STR. EX-2	EX. INLET	262.15	5.75

* DENOTES INLETS TO HAVE 18" SUMP AND STORMTANK SHIELD
 ** DENOTES INLETS TO HAVE 9" SUMP AND STORMTANK SHIELD (SEE DETAIL FOR STORMTANK SHIELD ON SHEET CG-501)

STORM PIPES

PIPE SEGMENT	LENGTH	DESCRIPTION	SLOPE	INV. (IN)	INV. (OUT)
STR. 101 TO STR. 100	85 LF	18 IN CL III RCP	2.00%	250.90	249.60
STR. 102 TO STR. D-3	83 LF	15 IN CL III RCP	2.00%	256.16	254.50
STR. 103 TO STR. D-4	76 LF	15 IN CL III RCP	1.50%	255.64	254.50
STR. 104 TO STR. 103	132 LF	15 IN CL III RCP	1.50%	257.73	255.74
STR. 105 TO STR. D-5	20 LF	15 IN CL III RCP	5.00%	255.50	254.50
STR. 106 TO STR. D-2	88 LF	15 IN CL III RCP	2.70%	253.88	251.50
STR. 107 TO STR. D-6	32 LF	15 IN CL III RCP	5.00%	256.08	254.50
STR. 202 TO STR. 100	77 LF	18 IN CL III RCP	0.50%	249.98	249.60
STR. 203 TO STR. 202	70 LF	18 IN CL III RCP	0.50%	250.43	250.08
STR. 204 TO STR. 205	7 LF	18 IN CL III RCP	1.43%	254.46	254.36
STR. 205 TO STR. 203	166 LF	18 IN CL III RCP	2.24%	254.28	250.53
STR. D-1 TO STR. 101	6 LF	18 IN CL III RCP	0.00%	251.00	251.00
STR. EX-1 TO STR. 205	166 LF	15 IN EX. CONC. PIPE	0.38%	255.24	254.61
STR. EX-2 TO STR. EX-1	65 LF	15 IN EX. CONC. PIPE	1.78%	256.40	255.24



NO.	REVISIONS	DATE	BY
1	OIL WATER SEPARATOR	11/07/18	RRP
2	OIL WATER SEPARATOR	07/02/19	RRP
3	UNDERGROUND PIPE CONNECTIONS	07/03/19	RRP
4	PHASE II EAS REVISIONS	01/14/19	RRP
5	BID SET REVISIONS	07/17/19	RRP

Kimley»Horn
 2018 KIMLEY-HORN AND ASSOCIATES, INC.
 1700 WILLOW LAWN DR., SUITE 200, RICHMOND, VA 23230
 PHONE: 804-673-3882
 WWW.KIMLEY-HORN.COM

WAWA AT PARHAM AND THREE CHOPT ROAD
 PREPARED FOR
REBEEK CO.
 HENRICO COUNTY, VIRGINIA

GRADING PLAN

SHEET NUMBER
CG-101

POD# 2018-00101 & 00196

Order Plans