

1913-EC DETAILS.cwg

SKIMMER SEDIMENT BASIN DESIGN CRITERIA

DRAINAGE AREA (ACRES)	< 10 AC.
MIN. LENGTH TO WIDTH RATIO	2:1
MAX. LENGTH TO WIDTH RATIO	6:1
MIN. VOLUME REQUIRED (CU. FT. PER AC. DISTURBED)	1800
SURFACE AREA REQUIRED (SQ. FT. PER SQ. FT. OF DISTURBED)	325

PLAN VIEW

CROSS-SECTION VIEW

NOTES:

- REFER TO NCS/SPDM SECTION #6.64 FOR ADDITIONAL DESIGN SPECIFICATIONS REGARDING SKIMMER SEDIMENT BASINS.
- REFER TO STD. #30.19 FOR BAFFLE SPACING AND INSTALLATION.
- TURBIDITY CURTAIN (CLOS #30.23) MAY BE USED IN LIEU OF POROUS BAFFLES (CLOS #30.19).
- SKIMMER INVERT ELEVATION = BASIN BOTTOM + 1' MIN.
- H = SPILLWAY ELEVATION - SKIMMER INVERT ELEVATION

DATA BLOCK

BASIN	DRAINAGE AREA (ACRES)	DEVELOPED AREA (ACRES)	Q ₁₀	BASIN VOLUME REQUIRED (CU. FT.)	BASIN VOLUME PROVIDED (CU. FT.)	BASIN SURFACE AREA REQUIRED (SQ. FT.)	BASIN SURFACE AREA PROVIDED (SQ. FT.)	CLEANOUT DEPTH (FT.)	H (FEET)	Z (FEET)	L (FEET)	T (FEET)	W (FEET)	SKIMMER PIPE DIAMETER	SKIMMER ORIFICE DIAMETER
1	1.04	1.04	4.4	1872	3802	1426	1426	1.5	3	3	5	1.5	5	2	1

NOT TO SCALE

CITY OF CHARLOTTE LAND DEVELOPMENT STANDARDS
INCLUDES CHARLOTTE ETJ

SKIMMER SEDIMENT BASIN

STD. NO. 30.02A REV. 18

PERSPECTIVE VIEW

END VIEW

FRONT VIEW

SCHEMATIC OF SKIMMER TAKEN FROM PENNSYLVANIA EROSION AND SEDIMENT POLLUTION CONTROL MANUAL, MARCH 2000.
"H" REFERS TO THE HEIGHT FROM INVERT OF FLEXIBLE HOSE ON SKIMMER TO THE INVERT OF THE PRIMARY SPILLWAY.

NOT TO SCALE

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INCLUDES CHARLOTTE ETJ

SKIMMER

STD. NO. 30.02B REV. 12

GENERAL NOTES:

- INSTALL 5" STEEL POSTS AT LEAST 4' INTO SOLID GROUND.
- USE STAPLES 1" APART HORIZONTALLY AND VERTICALLY TO ANCHOR THE FILTER FABRIC TO THE STEEL POSTS.
- MINIMUM BAFFLE SPACING IS 10'.
- THE FLOOR OF THE BASIN IN THE OUTLET ZONE AND BERMS SHOULD BE SEDED IMMEDIATELY AFTER THE BASIN IS CONSTRUCTED.
- REFER TO NCS/SPDM SECTION #6.65 FOR ADDITIONAL SPECIFICATIONS.

BAFFLE INSTALLATION

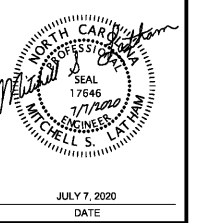
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BAFFLE INSTALLATION

STD. NO. 30.19 REV. 15

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EROSION CONTROL DETAILS

REVISIONS

PROJECT NO.: 2019.13
SCALE: N.T.S.
DRAWN BY: PAB
CHECKED BY: MSL

SHEET NO:
C4.1

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