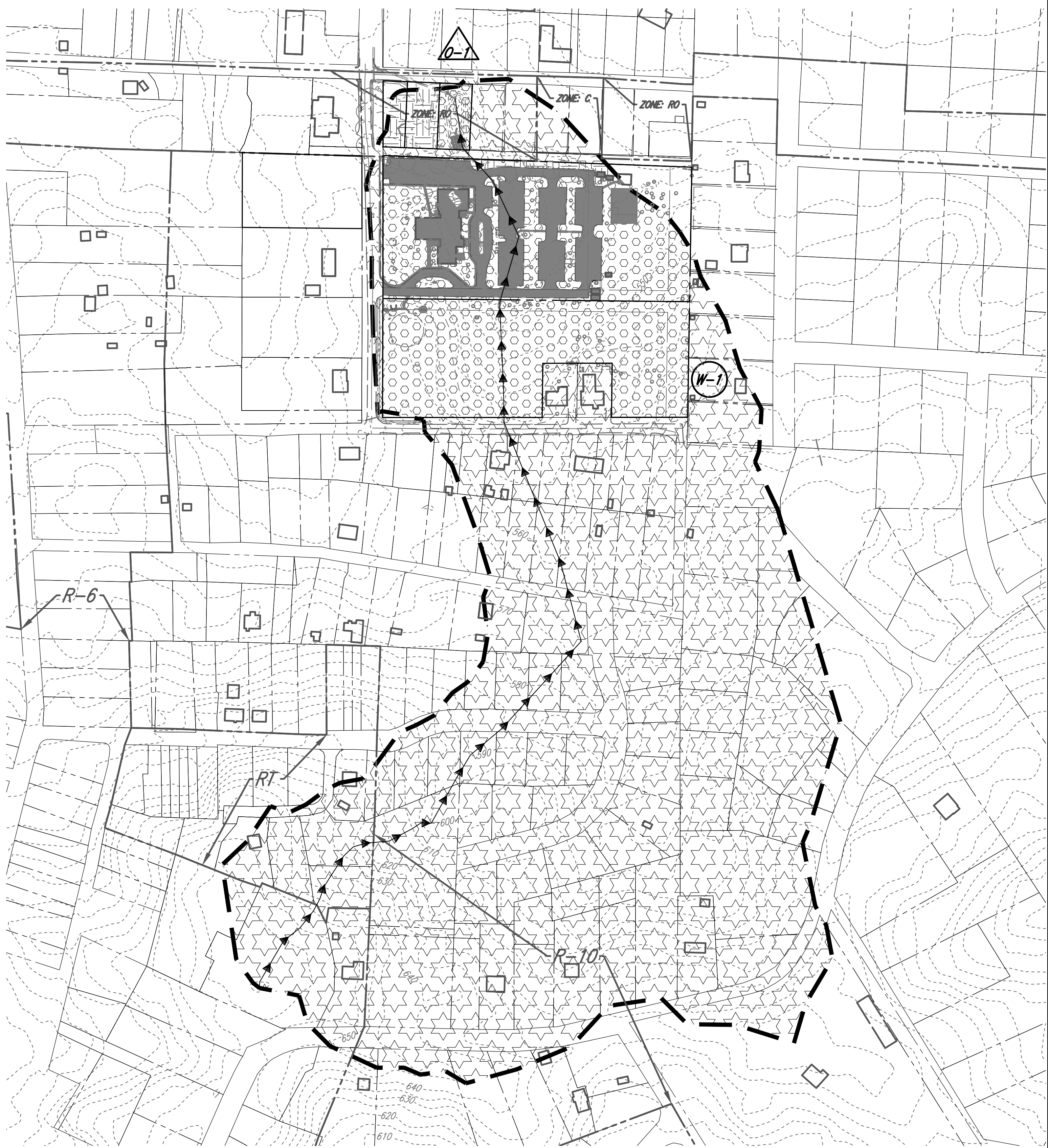


PRE-DEVELOPMENT DRAINAGE MAP



LEGEND

DENOTES OUTFALL NUMBER

DENOTES WATERSHED NUMBER

DENOTES PROPOSED R-PUD AREA

DENOTES TOC FLOW LINE

ON-SITE RUNOFF (IMPERVIOUS)
A = 2.40 AC
C = 0.90

ON-SITE RUNOFF (OPEN SPACE)
A = 6.45 AC
C = 0.30

ON-SITE RUNOFF (WOODS)
A = 0.55 AC
C = 0.25

OFF-SITE RUNOFF (RESIDENTIAL)
A = 35.85 AC
C = 0.40

PRE-DEVELOPMENT ON-SITE RUNOFF TO OUTFALL O-1
A = 9.40 AC
C = 0.45
TOC = 10 MIN.*
I = 5.30 IN/HR
Q (10-YR) = 22.40 CFS

PRE-DEVELOPMENT OFF-SITE RUNOFF TO OUTFALL O-1
A = 35.85 AC
C = 0.40
TOC = 10 MIN.*
I = 5.30 IN/HR
Q (10-YR) = 76.00 CFS

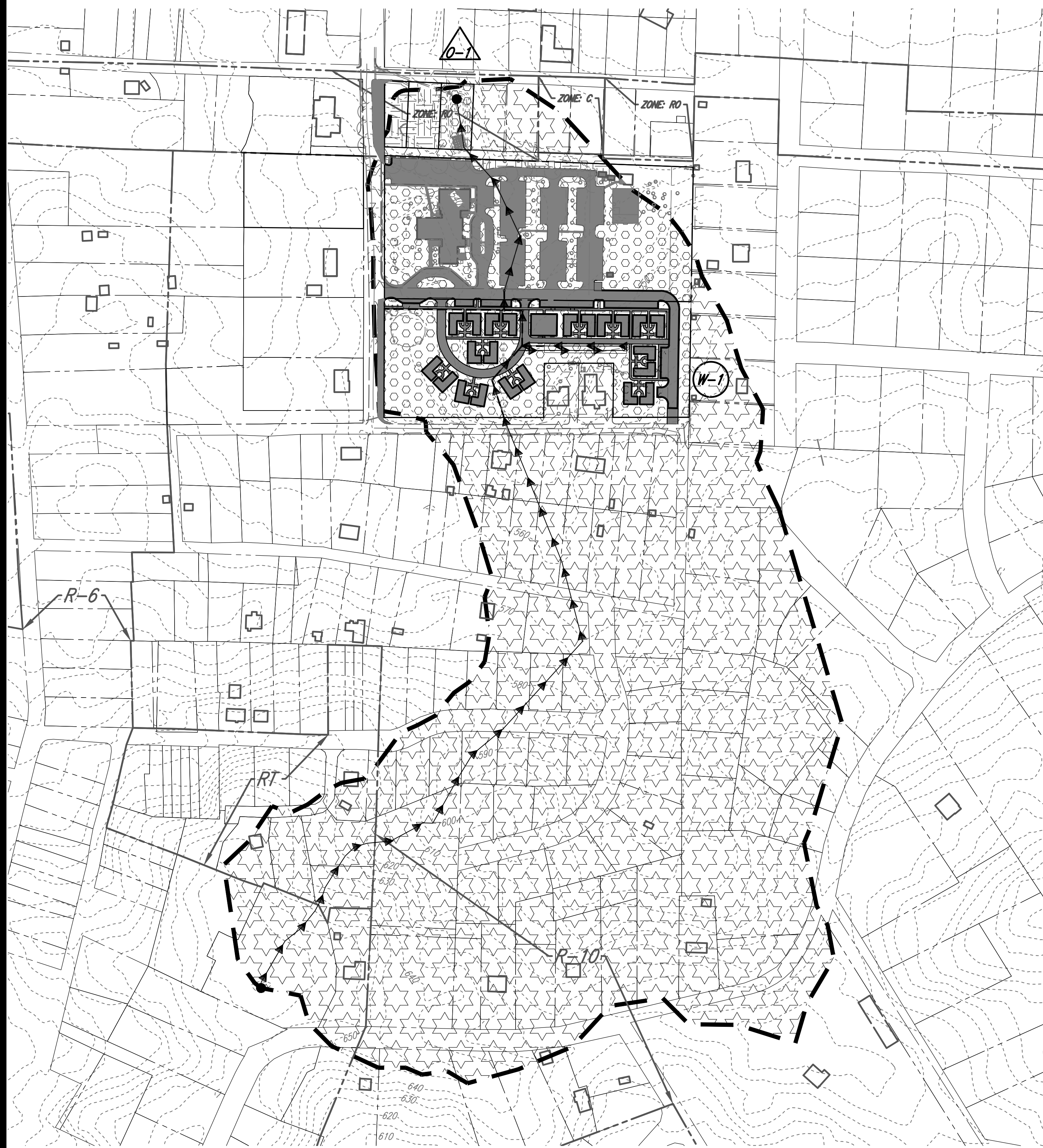
*TOC DETERMINED USING VDOT DRAINAGE MANUAL APPENDIX 6D-5 WITH A HEIGHT OF 130' AND A MAXIMUM LENGTH OF TRAVEL OF 2,500 FT.

GRAPHIC SCALE

(IN FEET)
1 inch = 150 ft.

NOTE: DRAINAGE AREA IS DELINEATED USING AVAILABLE INFORMATION FROM TOWN OF WARRENTON GIS

POST-DEVELOPMENT DRAINAGE MAP



LEGEND

DENOTES OUTFALL NUMBER

DENOTES WATERSHED NUMBER

DENOTES PROPOSED R-PUD AREA

DENOTES TOC FLOW LINE

ON-SITE RUNOFF (IMPERVIOUS)
A = 4.40 AC
C = 0.90

ON-SITE RUNOFF (OPEN SPACE)
A = 4.45 AC
C = 0.35

ON-SITE RUNOFF (WOODS)
A = 0.55 AC
C = 0.25

OFF-SITE RUNOFF (RESIDENTIAL)
A = 35.85 AC
C = 0.40

POST-DEVELOPMENT ON-SITE RUNOFF TO OUTFALL O-1
A = 9.40 AC
C = 0.60
TOC = 10 MIN.*
I = 5.30 IN/HR
Q (10-YR) = 29.90 CFS

POST-DEVELOPMENT OFF-SITE RUNOFF TO OUTFALL O-1
A = 35.85 AC
C = 0.40
TOC = 10 MIN.*
I = 5.30 IN/HR
Q (10-YR) = 76.00 CFS

*TOC DETERMINED USING VDOT DRAINAGE MANUAL APPENDIX 6D-5 WITH A HEIGHT OF 130' AND A MAXIMUM LENGTH OF TRAVEL OF 2,500 FT.

NOTE: DRAINAGE AREA IS DELINEATED USING AVAILABLE INFORMATION FROM TOWN OF WARRENTON GIS

Rinker Design Associates
11100 Endeavor Court, Suite 200, Manassas, VA 20109
Telephone: (703) 368-7373 www.rdacivil.com
Engineering * Surveying * Transportation * Environmental Services

COMMONWEALTH OF VIRGINIA
JEREMY WALKER
L.C. No. 048575
09/19/2024
PROFESSIONAL SEAL

PRE & POST CONCEPT DEVELOPMENT DRAINAGE MAP
WARRENTON UNITED METHODIST CHURCH / HERO'S BRIDGE ZONING MAP AMENDMENT
CENTRAL DISTRICT
TOWN OF WARRENTON

REVISIONS:

PLAN DATE: SEPTEMBER 19, 2024
DESIGN BY: AS
CHECKED BY: JLK
ARCHITECT: N/A
JURISDICTIONAL PLAN NO. ZMA 2023-01
RDA PLAN #: 21171-002
SHEET NUMBER: C.03