EROSION & SEDIMENT CONTROL SHEET NOTES:

1. THIS DRAWING IS INTENDED TO SHOW THE PERIMETER EROSION & SEDIMENT CONTROL (E&SC) MEASURES REQUIRED DURING THE CONSTRUCTION OF THE TEMPORARY ROADWAY DETOUR, NEW BRIDGE / ROADWAY, STORM DRAINAGE SYSTEM, UTILITIES, AND OTHER IMPROVEMENTS. ADDITIONAL REQUIRED MEASURES AND SEQUENCE OF WORK ARE SHOWN ON SUBSEQUENT SHEETS AND ARE SPECIFIED IN THE NARRATIVES, SEQUENCE OF WORK, AND STATEMENT OF COMPLIANCE WITH THE MINIMUM STANDARDS.

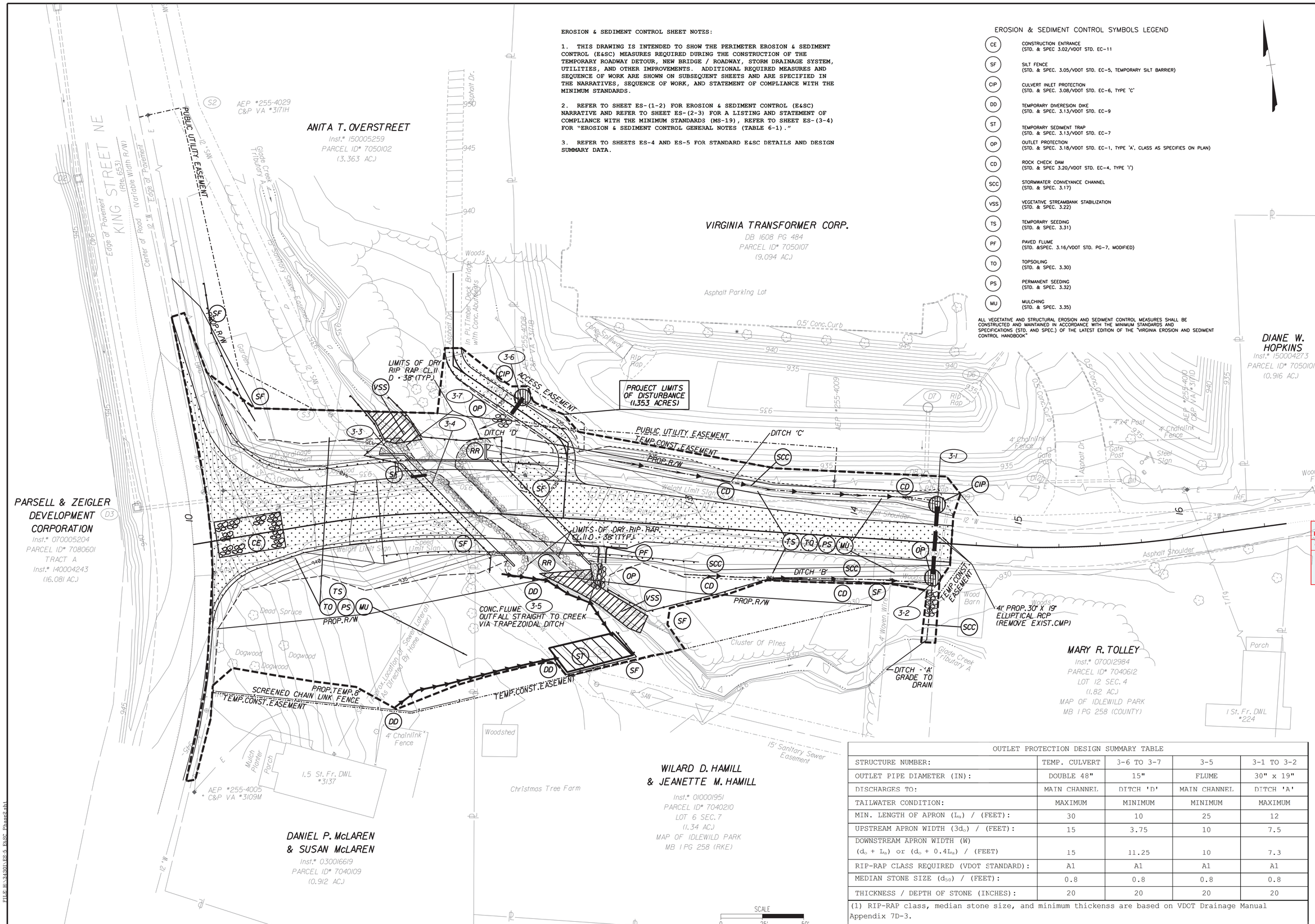
2. REFER TO SHEET ES-(1-2) FOR EROSION & SEDIMENT CONTROL (E&SC) NARRATIVE AND REFER TO SHEET ES-(2-3) FOR A LISTING AND STATEMENT OF COMPLIANCE WITH THE MINIMUM STANDARDS (MS-19), REFER TO SHEET ES-(3-4) FOR "EROSION & SEDIMENT CONTROL GENERAL NOTES (TABLE 6-1)."

3. REFER TO SHEETS ES-4 AND ES-5 FOR STANDARD E&SC DETAILS AND DESIGN SUMMARY DATA.

EROSION & SEDIMENT CONTROL SYMBOLS LEGEND

CE	CONSTRUCTION ENTRANCE (STD. & SPEC 3.02/VDOT STD. EC-11
SF	SILT FENCE (STD. & SPEC. 3.05/VDOT STD. EC-5, TEMPORARY SILT BARRIER)
CIP	CULVERT INLET PROTECTION (STD. & SPEC. 3.08/VDOT STD. EC-6, TYPE 'C'
DD	TEMPORARY DIVERESION DIKE (STD. & SPEC. 3.13/VDOT STD. EC-9
ST	TEMPORARY SEDIMENT TRAP (STD. & SPEC. 3.13/VDOT STD. EC-7
OP	OUTLET PROTECTION (STD. & SPEC. 3.18/VDOT STD. EC-1, TYPE 'A', CLASS AS SPECIFIES ON PLAN)
CD	ROCK CHECK DAM (STD. & SPEC 3.20/VDOT STD. EC-4, TYPE 'I')
SCC	STORMWATER CONVEYANCE CHANNEL (STD. & SPEC. 3.17)
VSS	VEGETATIVE STREAMBANK STABILIZATION (STD. & SPEC. 3.22)
TS	TEMPORARY SEEDING (STD. & SPEC. 3.31)
PF	PAVED FLUME (STD. &SPEC. 3.16/VDOT STD. PG-7, MODIFIED)
TO	TOPSOILING (STD. & SPEC. 3.30)
PS	PERMANENT SEEDING (STD. & SPEC. 3.32)
MU	MULCHING (STD. & SPEC. 3.35)

ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE MINIMUM STANDARDS AND SPECIFICATIONS (STD. AND SPEC.) OF THE LATEST EDITION OF THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK"



OUTLET PROTECTION DESIGN SUMMARY TABLE

STRUCTURE NUMBER:	TEMP. CULVERT	3-6 TO 3-7	3-5	3-1 TO 3-2
OUTLET PIPE DIAMETER (IN):	DOUBLE 48"	15"	FLUME	30" x 19"
DISCHARGES TO:	MAIN CHANNEL	DITCH 'D'	MAIN CHANNEL	DITCH 'A'
TAILWATER CONDITION:	MAXIMUM	MINIMUM	MINIMUM	MAXIMUM
MIN. LENGTH OF APRON (L_a) / (FEET):	30	10	25	12
UPSTREAM APRON WIDTH ($3d_o$) / (FEET):	15	3.75	10	7.5
DOWNSTREAM APRON WIDTH (W) ($d_o + L_a$) or ($d_o + 0.4L_a$) / (FEET)	15	11.25	10	7.3
RIP-RAP CLASS REQUIRED (VDOT STANDARD):	A1	A1	A1	A1
MEDIAN STONE SIZE (d_{50}) / (FEET):	0.8	0.8	0.8	0.8
THICKNESS / DEPTH OF STONE (INCHES):	20	20	20	20

(1) RIP-RAP class, median stone size, and minimum thickenss are based on VDOT Drainage Manual Appendix 7D-3.

COMMONWEALTH OF VIRGINIA
WM. THOMAS AUSTIN
Lic. No. 030907
3/10/2017
PROFESSIONAL ENGINEER

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City of Roanoke
Planning, Building, & Development
COMPREHENSIVE DEVELOPMENT PLAN
APPROVED
by Adrian Gilbert 03/15/2018

BERKLEY ROAD OVER GLADE CREEK TRIBUTARY A
E&SC PLAN PHASE 2
CITY OF ROANOKE, VA

Vertical Scale: N/A
Horizontal Scale: 1" = 25'
Commission Number: 34301
Sheet No.: ES-6

FILE:H:\34301\ES-5 E&SC Phase2.dwl