tection and parmanent project surfed from the project surface. A TEMPON THAN TO STATE THAN

ntrated runoff shall not flow down cut or fill slopes unless contained within an adequate temporel, flume or slope drain structure. INSTALL TEMPORARY SLOPE DRAINS THERE INDICATED RATEATED FLOW DOWN SLOPES IS TO BE AVOIDED TITH THIS PLAN. SHOULD CONCENT. CONTRACTOR SHALL REPAIR OR IMPROVE THE GRADE TO DISBURSE FLOW ACROSS A.

never water seeps from a slope face, adequate drainage or other protection shall be provided. I EPAGE THROUGH SIOPES IS NOT ANTICIPATED TO BE ENCOUNTERED ON THIS PROJECT. VIR. ADEQUATE DRAINAGE SHALL BE ESTABLISHED TO CONVEY WATER TO A CONTROLLED IVELARCE AND PROTECT THE SLOPE. storm sewer inlets that are made operable during construction shall be protected so that sediment—loden water not enter the conveyance system without first being filtered or otherwise treated to remove sediment. PLACE LET PROTECTION ON ALL NEWLY INSTALLED INLETS, AND TO EXISTING INLETS WHERE SHOWN ON PLAN. ed starmwater conveyance channels or pipes are made operational, ode or permanent channel lining shall be installed in both the conveyance OUTLET PROTECTION WHERE INDICATED ON PLAN, AND TO THE

cable federal, state and local chapta UBLR. NO LIVE WATERCOURSE IS ATERCOURSE RELATED TO THIS ! ers pertaining to working in or crossin ADJACENT TO THIS PROJECT AND PROJECT. iobilized immediately after work in the UACENT TO THIS PROJECT AND NO JECT.

rsposal area. Street washing shall be individual development lots as we S 70 THE SITE UTILIZING THE UNISTRUCTION ENTRANCE ON

THE CONSTRUCTION ENTRANCE SHALL BE CHECKED CLEANED, OR REPLACED AS REQUIRED FOR THE CL

temporary erosion and sediment control measures shall be removed within 30 days after find site stabilization in the temporary measures are no longer needed, unless otherwise authorized by the VESCP authority. Trapped iment and the disturbed soil areas resulting from the disposition of temporary measures shall be permanently bilized to prevent further erosion and sedimentation. REMOTE TEMPORARY MEASURES IN ACCORDANCE TITY OF ROANUES. shall be protected from sediment deposition, erosion and to of stormwater runoff for the stated frequency storm of and criteria. Stream restoration and relocation projects—made channels and shall be exempt from any flow rate

will be discharged directly into an adequate natural. For those sites where runoff is discharged into a trail of the pipe or pipe system shall be performed slowing manner:

(SOIL)

TABILIZATION

BLANKET)

(SOIL

TYPICAL ORIENTA TREATMENT -

TION OF

BHING MATERIAL DOWN TO A LEVEL AREA BEFOR TERMINATING THE INSTALLATION, THRN THE END TRIDER & AND STAPLE AT 12" HITERIALS.

B/M

SOIL STABILIZATION BLANKET AND MATTING

CER SEEDER, OR HYDROSSEDER ON A FIRM, FRIABLE, SEEDB SEEDING DEPTH SHALL BE 1/4 INCH.

12-166 14 OF 16

OVER ALL SEEDED AREAS AND SHALL BE SECTION 1.75 OF THE VIRGINIA EROSION BOOK, LATEST EDITION.

NO.

4

5

August 28, 2013

NO SCALE

<u>PROJECT DESCRIPTION</u> THE PROJECT AREA IS LOCATED ALONG PHEASANT RIDGE 35—UNIT APARTMENT BUILDINGS. TOTAL DISTURBED AREA THE SITE IS CURRENTLY A

<u>ADJACENT AREAS</u> THE PARCEL IS SURROUNDED BY A VARIETY OF USES; SINGLE—FAMILY RESIDENTIAL LOTS ARE LOCATED TO THE NORTHWEST, NORTH AND NORTHEAST, COMMERCIAL AND OFFICE USES ARE ADJACENT TO THE WEST AND SOUTHWEST, AND MULTI—FAMILY RESIDENTIAL, ASSISTED LIVING AND NURSING HOME USES ARE LOCATED TO THE SOUTH AND SOUTHEAST. <u>HE AREAS</u> OFFSITE AREAS ARE ASSOCIATED WITTED CUT OR FILL SITE. L MATERIAL THAT IS REMOVED FROM OR DELIVERED TO THIS SITE IN ASSOCIATION WITH THIS PROJECT SHALL BE FROM A

THE EDGENONT CHANNERY SANDY LOAM SOIL, HYDROLOGIC SOIL GROUP B, POSSESSES THE FOLLOWING CHARACTERISTICS AND PROPERTIES.

DEPTH THE RESTRICTIVE FEATURE: MORE THAN 80 INCHES

DRAINAGE CLASS: HELL DRAINED

PERMEABILITY: MODERATELY HIGH TO HIGH INFORMATION IS BASED ON AN INSPECTION OF THE USDA MEB SOIL SURVEY LOAM (MAP UNITS 15D AND 15E), 15 TO 35% AND 35 TO 60%.

PROFILE: 0 TO 6 INCHES -NDY LOAM; 6 TO 38 INCHES - CLAY LOAM; 38 TO 62 INCHES

area to be se

MEASURES

<u> 2ULVERT INLET PROTECTION (3.08)</u> — CULVERT INLET PRO LADEN RUNOFF FROM ENTERING THE STORM DRAIN SYSTE LL FENCE (3.05) — SILT FENCE WILL BE INSTALLED AT LET PROTECTION (3.07) — INLET PROTECTION WILL BE VAIN SYSTEM. E OF COMPACTED SOIL WILL BE CONSTRUCTED TO DIVERT UPSLOPE RUNOFF AWAY FROM A DISTURBED AREA, TO A SEDIMENT TRAPPING MEASURE. NTECTION WILL BE INSTALLED AT THE UPSTREAM END OF EACH STORM DRAIN CULVERT TO MINIMIZE THE AMOUNT OF SEDIMENT W.

<u> ITMPORARY DIVERSION DIKE (3.08)</u> – A TEMPORARY RIDG DIVERT SEDIMENT LADEN RUNOFF FROM A DISTURBED ARE <u> DUTLET PROTECTION (3.18)</u> — TO PREVENT SCOUR AT ST REDUCING THE VELOCITY AND ENERGY OF CONCENTRATED <u>PORARY SEEDING (3.31)</u> — TEMPORARY SEEDING SH ISHED GRADED DURING THE INITIAL PHASE OF CONS IDING, OR INSTALLATION IF A TEMPORARY MEASURE RARY RIDGE OF COMPACTED GRAVEL WILL BE CONSTRUCTED TO DIVERT UPSLOPE RUNOFF AWAY FROM A DISTURBED AREA, STURBED AREA TO A SEDIMENT TRAPPING MEASURE.

IP) GRAVEL

CURB

INLET SEDII

MENT FILTER

%%%蛋型 Section A-A

Section A-A

Pipe Butlet To Well-Defined Channel

OUTLET PROTECTION

<u>HNG (3.35)</u> — ALL DISTURBED AREAS BER MULCH OVER THE SEEDED AREA V ALL DISTURBED AREAS OF THE SITE NOT OTHERWISE STABILIZED. STRAW MULCH SHALL BE APPLIED AT A RATE OF TWO TONS PER ACRE AND ANCHORED WITH 750 LBS PER ACRE

<u>IU. STABILIZATION & MATTING (3.36)</u> — SLOPES RMANENT VEGETATIVE STABILIZATION.

ROSION AND SEDBMENT CONTROL MEASURES SHALL ANY DEFICIENCIES THAT ARE FOUND SHALL BE CO THE FO ALL DITCHES, SWALES, AND NATURAL WATERCOURSES DOWNSTREAM OF THIS PROJECT SHALL BE FIELD INSPECTED DURING AND AFTER CONSTRUCTION BY THE RLD TO ENSURE COMPLIANCE WITH DCR'S MS-19. IF EROSION OR SCOUR IS OCCURRING THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL CORRECTIVE MEASURES. BE INSPECTED BI-HEEKLY AND AFTER EVERY RUNOFF PRODUCING RAINFALL. A LOG OF DATES AND INSPECTIONS SHALL BE IRRECTED HAMEDIATELY. ACCUMULATED SEDMENT AT TRAPPING MEASURES SHALL BE ROUTINELY REMOVED. THE CONTRACTOR ILLOHING:

TEMPORARY STABILIZATION

SEDMENT TRAP SHALL BE INSPECTED ALL SEEDED AREAS WILL BE CHECKED ACHIEVE A GOOD STAND OF GRASS. TO ENSURE THAT A GOOD STAND OF GRASS IS MAINTAINED. REGULARLY TO ENSURE THAT MUD IS NOT TRANSPORTED ONTO THE ADJACENT ROADS. THE STONE SHALL BE INSTRUCTION ENTRANCE TO FUNCTION PROPERLY.

NEW IMPERVIOUS SURFACES WILL BE ATTENUATED BY USE OF THE EXISTING DETENTION POND LOCATED THE "PROJECT CALCULATIONS" WORKBOOK ASSOCIATED WITH THIS PROJECT.

BLANKET)SF) CONSTRUCTION

ES-3: ALL EROSION AND SEDIMENT CONTROL PRST STEP IN CLEARING. ES—1: UNLESS OTHERWISE INDICATED, ALL WEGETATIVE AND STI CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED / AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT REGULATIONS VR 625—02—00 EROSION AND SEDIMENT CONTRO 55-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN AND NARRATIVE, AS WELL AS A COPY OF THE LAND DISTURBING PERMIT, SHALL BE MAINTAINED ON THE SITE AT ALL TIMES. THE EROSION AND SEDIMENT CONTROL ADMINISTRATOR WILL DELIVER THESE MATERIALS AT THE DISTURBING PRECONSTRUCTION CONFERENCE. IS-2: THE PLAN APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE ONSITE PRECONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION. 'S-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL NEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY. -5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER TESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE NITRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE PLAN APPROVING AUTHORITY. THAN INDICATED ON AREAS), THE THE OWNER FOR RIOR TO OR AS THE

PS

PERMANENT SEEDING MIXTURE

'S-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL IMES DURING THE LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL TABILIZATION IS ACHIEVED. ERIODICALLY AND AFTER SLEANUP TO MAINTAIN EDIATELY.

PERMANENT STABILIZATION - FEB. 15 (s)AR. TEMPORARY SEEDING MIXTURE 50/50 MIX OF ANNUAL RYEGRASS (LOLIUM MUL

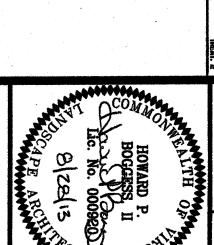
SILT FENCE

B (SLOPES 3:1 OR STEEPER) H TO 1 MAY VETCH • 1/2 LB / 1000 SF 1/2 LB / 1000 SF RASS **0** 1/2 LB / 1 LB / 1000 SF **REVISIONS** DESCRIPTION DATE

COMPREHENSIVE DEVELOPMENT PLAN **FOR**

RIDGE APARTMENTS **PHEASANT** PREPARED FOR SMITH/PACKETT MED-COM, L.L.C. SITUATED ALONG PHEASANT RIDGE ROAD CITY of ROANOKE, VIRGINIA

EROSION & SEDIMENT CONTROL NOTES AND DETAILS



	3.36	3,35	3,32	3.31	3.18	3.13	3,11	3.09	3.08	3.07	3.05	3.03	3.02	<u>8</u>
	SDIL STABILIZATION BLANKETS AND MATTING	MULCHING	PERMANENT SEEDING	TEMPORARY SEEDING	OUTLET PROTECTION	TEMPURARY SEDIMENT TRAP	TEMPORARY RIGHT-OF-WAY DIVERSION	TEMPORARY DIVERSION DIKE	CULVERT INLET PROTECTION	INLET PROTECTION	SILT FENCE	CONSTRUCTION ROAD STABILIZATION	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE	
	(F)	(3)	B	(F)	Q	(왕)	R	B		(ন্	<u>প্র</u>	8	(R)	<u> </u>
	THE PROPERTY OF THE PARTY IS NOT THE PARTY IN THE PARTY IS NOT THE PARTY IN THE PARTY IS NOT THE PARTY IS NO	(NJ)	(R)				S	(3)			* * *	(3)		SYMBOL
,	4				.	. T.). /		773 T		22	OT A	T) T	10 T	. ~

IP GRAVEL AND WIRE MESH DROP INLET SEDIMENT FILTER

vel shall be VDOT #3, #357 or #5 coarse aggregate

LUMSDEN ASSOCIATES, P.C. ENGINEERS-SURVEYORS-PLANNERS ROANOKE, VIRGINIA PHONE: (540) 774-4411 FAX: (540) 772-9445 E-MAIL: MAIL@LUMSDENPC.COM 4664 BRAMBLETON AVENUE

P.O. BOX 20669 ROANOKE, VIRGINIA 24018