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CONTRACTOR SHALL PAY PARTICULAR ATTENTION TO THE FOLLOWING MINIMUM STANDARDS:

- MS-1: THOUGH TS / PS LABELS ARE SHOWN GENERALLY ON THE PLANS, THE CONTRACTOR SHALL SEED ALL AREAS NOT INDICATED TO BE OTHERWISE STABILIZED WITH PERMANENT SEED MIXTURE WITHIN 7 DAYS OF REACHING FINAL GRADE OR WITH TEMPORARY SEED MIXTURE ANY AREA YET TO REACH FINAL GRADE BUT THAT IS NOT PROPOSED TO BE ACTIVELY INVOLVED IN THE WORK WITHIN 30 DAYS. THESE SEED MIXTURES AND APPLICATION SPECIFICATIONS ARE SHOWN HEREON. THE CONTRACTOR SHALL HONOR THE CLEARING AND GRADING LIMITS SHOWN ON THE PLAN.
- MS-2: THE CONTRACTOR SHALL STABILIZE WITH TS AND PROTECT WITH TS, WITH ANY APPLICABLE METHOD, ALL STOCKPILES AND ANY ON-SITE OR OFF-SITE BORROW OR SPOIL AREAS, AS APPLICABLE. APPROVAL OF THIS PLAN DOES NOT COVER OFF-SITE BORROW OR SPOIL AREAS. PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
- MS-3: WHERE TS/PS ARE NOT APPLICABLE PROVIDE OTHER MEANS OF STABILIZATION (CRS, ETC.) WITHIN 7 DAYS OF REACHING FINAL GRADE OR WITHIN 30 DAYS WHERE THE AREA IS YET TO REACH FINAL GRADE BUT IS NOT PROPOSED TO BE ACTIVELY INVOLVED IN THE WORK.
- MS-4: ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE PLACED IN ADVANCE OF THE WORK THEY ARE INTENDED TO PROTECT.
- MS-5: EARTHEN CONTROLS AND STRUCTURES SHALL BE STABILIZED IMMEDIATELY UPON INSTALLATION.
- MS-6: WHERE A SEDIMENT TRAP (<3 ACRES OF DRAINAGE) OR SEDIMENT BASIN (>3 ACRES OF DRAINAGE) ARE INDICATED CALCULATIONS SHOWN ARE BASED ON OUTLINED DRAINAGE AREAS. CONTRACTOR SHALL HONOR INDICATED DRAINAGE DIVIDES AND CONFORM TO VOLUMES, DETAILS, ETC. PROVIDED ON PLANS.
- MS-7: CARE HAS BEEN TAKEN IN DESIGN TO MINIMIZE DRAINAGE OVER SLOPES AND PROVIDE A SUITABLE PROTECTIVE STABILIZATION METHOD. CONTRACTOR SHALL PROTECT SLOPE AREAS DURING AND AFTER CONSTRUCTION FROM CONCENTRATED RUNOFF AND THE EROSION EFFECTS OF WIND AND RAIN. STABILIZE AS SOON AS PRACTICAL TO MINIMIZE EROSION.
- MS-8: WHERE CONCENTRATED RUNOFF HAS BEEN ROUTED DOWN SLOPES CARE HAS BEEN TAKEN TO DESIGN AN ADEQUATE CHANNEL OR DRAIN. CONTRACTOR SHALL INSTALL THESE MEASURES ALONG WITH THEIR STABILIZATION AS SOON AS PRACTICAL TO PROTECT SLOPE. NOT APPLICABLE, NO CHANNELS OR DRAINS ARE PROPOSED OVER SLOPES.
- MS-9: NOT APPLICABLE; SEEPAGE THROUGH SLOPES IS NOT ANTICIPATED TO BE ENCOUNTERED ON THIS PROJECT.
- MS-10: INLET OR CULVERT INLET PROTECTION IS PROPOSED FOR THE INLETS OF ALL STORM SEWERS OR CULVERTS ON-SITE. RLD SHALL INSURE PROPER INSTALLATION AND ASSURE ADEQUATE SIZING BASED ON DRAINAGE AREA OF EACH INLET.
- MS-11: RLD SHALL VERIFY THAT ADEQUATE CHANNEL LININGS AND PROPER OUTLET PROTECTION IS IN PLACE PRIOR TO OPERATION OF STORM SEWER SYSTEM.
- MS-12: WHEN WORKING IN AND AROUND A LIVE WATERCOURSE, THE CONTRACTOR SHALL TAKE GREAT CARE TO MINIMIZE IMPACT ON THE STREAM. ASSURE THAT PROPER PERMITS FROM DEQ / USACE ARE IN HAND PRIOR TO COMMENCING SUCH WORK.
- MS-13: WHERE MORE THAN 2 TRIPS IN 6 MONTHS ARE EXPECTED ACROSS A LIVE WATERCOURSE OBTAIN THE NECESSARY PERMIT AND INSTALL A TEMPORARY STREAM CROSSING.
- MS-14: OTHER FEDERAL, STATE, AND LOCAL REGULATIONS MUST BE MET WHEN WORKING IN LIVE WATERCOURSES.
- MS-15: THE BED AND BANKS OF DISTURBED WATERCOURSES MUST BE STABILIZED IMMEDIATELY.
- MS-16: REGARDING UTILITY INSTALLATIONS, NO MORE THAN 500 LF OF TRENCH MAY BE OPEN AT A GIVEN TIME. EXCAVATED MATERIAL SHALL BE PLACED ON UPHILL SIDE OF TRENCH. EFFLUENT OF ANY DEWATERING SYSTEM USED MUST BE FILTERED. TRENCHES SHALL BE PROPER BACKFILLED AND COMPACTED PER DETAIL AND SPECS. COMPLETED INSTALLATION SHALL BE RE-STABILIZED IMMEDIATELY.
- MS-17: THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING MUD FROM TRUCKS AND / OR OTHER EQUIPMENT PRIOR TO ENTERING PUBLIC STREETS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT THE STREETS ARE IN A CLEAN, MUD AND DUST FREE CONDITION AT ALL TIMES.
- MS-18: SEE MAINTENANCE UNDER ESC NARRATIVE FOR CE, IP, SF, AND TS/PS AT A MINIMUM.
- MS-19: INCREASES IN STORMWATER VOLUME, VELOCITY, AND PEAK RUNOFF HAVE BEEN ADDRESSED IN THE PLAN PER CALCULATIONS SUBMITTED FOR REVIEW. RESPONSIBLE LAND DISTURBER SHALL PAY PARTICULAR ATTENTION TO OFF-SITE AREAS CONTRIBUTING RUNOFF TO THE SITE, OFF-SITE LOCATIONS RECEIVING RUNOFF FROM THIS PROJECT, AND PROPER OPERATION OF STORMWATER MANAGEMENT PRACTICES ON-SITE. 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 DOR'S MS-19. IF EROSION OR SCOUR IS OCCURRING THE DEVELOPER SHALL BE RESPONSIBLE FOR ALL CORRECTIVE MEASURES.

GENERAL EROSION AND SEDIMENT CONTROL NOTES,
ROANOKE COUNTY, VIRGINIA

- ES-1: UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS 1R 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.
- ES-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.
- ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
- ES-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 ONSITE PRECONSTRUCTION CONFERENCE.
- ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN APPROVING AUTHORITY.
- ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
- ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING THE LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- ES-8: DURING DEWATERING OPERATION, WATER WILL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
- ES-9: THE CONTRACTOR SHALL INSPECT ALL EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE MADE IMMEDIATELY. AN INSPECTION REPORT MUST BE FILED WITH THE ROANOKE COUNTY EROSION AND SEDIMENT CONTROL ADMINISTRATOR EVERY TWO WEEKS, BEGINNING WITH COMMENCEMENT OF THE LAND DISTURBING ACTIVITY, AND WITHIN 48 HOURS OF ANY RUNOFF-PRODUCING RAINFALL EVENT. FAILURE TO SUBMIT A REPORT WILL BE GROUNDS FOR IMMEDIATE REVOCATION OF THE LAND DISTURBING PERMIT. REPORTS MUST BE POSTMARKED WITHIN 24 HOURS OF THE DEADLINE. A STANDARD INSPECTION REPORT FORM WILL BE SUPPLIED, WHICH SHOULD BE COMPLETED AS NECESSARY. THIS PROVISION IN NO WAY WAIVES THE RIGHT OF ROANOKE COUNTY PERSONNEL TO CONDUCT SITE INSPECTIONS, NOR DOES IT DENY THE RIGHT OF THE PERMITTEE (S) TO ACCOMPANY THE INSPECTOR (S).

EROSION CONTROL NARRATIVE

PROJECT DESCRIPTION
THIS PROJECT CONSISTS OF THE CONSTRUCTION OF A WATER LINE EXTENSION AND THE LOCATION OF A SOIL STOCKPILE. THE APPROXIMATE AMOUNT OF DISTURBED AREA IS 0.5 ACRES.

EXISTING SITE CONDITIONS

THE SITE CONSISTS OF RELATIVELY OPEN LAND WITH MODERATE SLOPES. BARNHART CREEK RUNS THROUGH THIS PROPERTY.

ADJACENT AREAS

THIS DEVELOPMENT IS BORDERED ON THE NORTH, EAST, AND WEST BY RESIDENTIAL PROPERTY AND TO THE SOUTH BY WALTON LANE.

OFFSITE AREAS

THE LOCATION OF ALL OFFSITE FILL OR BORROW AREAS ASSOCIATED WITH THIS CONSTRUCTION PROJECT WILL BE PROVIDED TO ROANOKE COUNTY COMMUNITY DEVELOPMENT. AN EROSION AND SEDIMENT CONTROL PLAN OR MEASURES MAY BE REQUIRED FOR THESE AREAS.

SOILS

SOILS INFORMATION IS BASED ON AN INSPECTION OF SHEET No. 10 OF THE SOIL SURVEY OF ROANOKE COUNTY AND THE CITIES OF ROANOKE AND SALEM, VIRGINIA, ISSUED IN 1897 AND HAS NOT BEEN FIELD VERIFIED. THE ONSITE SOILS FALL INTO THREE DIFFERENT CATEGORIES.

CHISWELL-LITZ COMPLEX, 25 TO 50% SLOPES (MAP SYMBOL 5E) - THE LOCATION OF THIS SOIL ONSITE IS GENERALLY AROUND THE SOIL STOCKPILE. THE TYPICAL SOIL SEQUENCE FOR CHISWELL SOILS IS AS FOLLOWS: SURFACE LAYER IS 0 TO 2 INCHES - DARK BROWN CHANNERY SILT LOAM, THE SUBSOIL LAYER IS 2 TO 12 INCHES - REDDISH BROWN VERY CHANNERY SILT LOAM, THE BEDROCK LAYER IS 12 INCHES - MOTTLED REDDISH BROWN, BROWN, AND BROWNISH YELLOW SOFT SHALE. THE TYPICAL SOIL SEQUENCE FOR LITZ SOILS IS AS FOLLOWS: 0 TO 5 INCHES, DARK BROWN CHANNERY SILT LOAM, SUBSOIL LAYER IS 5 TO 16 INCHES - BROWN VERY CHANNERY SILT LOAM AND STRONG BROWN SILTY CLAY LOAM, THE SUBSTRATUM IS 16 TO 24 VERY BROWN SILTY CLAY SILT LOAM. BEDROCK - 24 INCHES - HARD GRAY AND RED SHALE. THE SOIL HAS A HIGH EROSION POTENTIAL, AND MODERATE PERMEABILITY. THE SHRINK-SWELL POTENTIAL IS LOW.

THURMONT SANDY LOAM, 7 TO 15% SLOPES (MAP SYMBOL 47C) - LOCATIONS OF THIS SOIL ONSITE ARE GENERALLY AROUND THE ACCESS ROAD AND SOIL STOCKPILE. THE TYPICAL SOIL LAYERS ARE AS FOLLOWS: THE SURFACE LAYER IS 0 TO 5 INCHES - DARK BROWN LOAM AND FROM 5 TO 10 INCHES - DARK YELLOWISH BROWN LOAM. THE SUBSOIL LAYER IS 10 TO 21 INCHES - STRONG BROWN CLAY LOAM, 21 TO 37 INCHES - YELLOWISH RED CLAY LOAM, AND 37 TO 44 INCHES - YELLOWISH RED GRAVELLY LOAM. THE SUBSTRATUM LAYER IS 44 TO 51 INCHES - YELLOWISH RED GRAVELLY LOAM AND FROM 51 TO 62 INCHES - YELLOWISH RED VERY GRAVELLY LOAM. THE SOIL HAS A HIGH EROSION POTENTIAL AND MODERATE PERMEABILITY. THE SHRINK-SWELL POTENTIAL IS LOW.

CHISWELL-LITZ-URBAN LAND COMPLEX, 15 TO 25% SLOPES (MAP SYMBOL 6D) - LOCATION OF THIS SOIL ONSITE IS GENERALLY AROUND THE AREA OF THE WATER LINE CONSTRUCTION. THE TYPICAL SOIL SEQUENCE FOR CHISWELL SOILS IS AS FOLLOWS: SURFACE LAYER IS 0 TO 2 INCHES - DARK BROWN CHANNERY SILT LOAM, THE SUBSOIL LAYER IS 2 TO 12 INCHES - REDDISH BROWN VERY CHANNERY SILT LOAM, THE BEDROCK LAYER IS 12 INCHES - MOTTLED REDDISH BROWN, BROWN, AND BROWNISH YELLOW SOFT SHALE. THE TYPICAL SOIL SEQUENCE FOR LITZ SOILS IS AS FOLLOWS: 0 TO 5 INCHES, DARK BROWN CHANNERY SILT LOAM, SUBSOIL LAYER IS 5 TO 16 INCHES - BROWN VERY CHANNERY SILT LOAM AND STRONG BROWN SILTY CLAY LOAM, THE SUBSTRATUM IS 16 TO 24 VERY BROWN SILTY CLAY SILT LOAM. BEDROCK - 24 INCHES - HARD GRAY AND RED SHALE. THE SOIL HAS A HIGH EROSION POTENTIAL, AND MODERATE PERMEABILITY. THE SHRINK-SWELL POTENTIAL IS LOW.

CRITICAL AREAS

THE CONTRACTOR SHALL TAKE SPECIAL CARE TO ESTABLISH PERMANENT STABILIZATION ON ALL DISTURBED AREAS. IN ADDITION, THERE IS LOCATED ON THIS SITE ONE JURISDICTIONAL STREAM (BARNHART CREEK) THAT SHALL NOT BE DISTURBED WITHOUT A PERMIT FROM THE US ARMY CORPS OF ENGINEERS AND THE VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY. CONSTRUCTION ADJACENT TO THIS STREAM SHOULD BE PERFORMED WITH EXTREME CAUTION. ESC MEASURES ADJACENT TO THE STREAM SHOULD BE CHECKED REGULARLY AND ANY CORRECTIVE MEASURES SHOULD BE MADE IMMEDIATELY. CONTRACTOR SHALL TAKE ANY PRECAUTIONS NECESSARY TO PROTECT THESE STREAMS DURING CONSTRUCTION.

EROSION AND SEDIMENT CONTROL MEASURES

CONSTRUCTION ENTRANCE (3.02) - A STONE CONSTRUCTION ENTRANCE WILL BE INSTALLED TO MINIMIZE THE AMOUNT OF MUD TRANSPORTED INTO EXISTING ROADS.

SILT FENCE (3.05) - SILT FENCE WILL BE INSTALLED AT THE LOWER ENDS OF THE PROJECT SITE TO INTERCEPT SEDIMENT LADEN RUN-OFF PRIOR TO EXITING THE SITE.

CULVERT INLET PROTECTION (3.08) - CULVERT INLET PROTECTION WILL BE INSTALLED AS SHOWN ON THIS PLAN TO MINIMIZE THE AMOUNT OF SEDIMENT LADEN RUNOFF FROM ENTERING THE EXISTING CULVERT.

TOPSOILING (3.30) - TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR FUTURE USE. TOPSOIL STOCKPILES SHALL BE PROTECTED BY SILT FENCE INSTALLED ALONG THE DOWNHILL SIDES AROUND THE STOCKPILE. TOPSOIL SHALL BE UNIFORMLY SPREAD OVER DISTURBED AREAS PRIOR TO PERMANENT SEEDING.

TEMPORARY SEEDING (3.31) - TEMPORARY SEEDING SHALL BE APPLIED TO TEMPORARY DIVERSION DIKES, TOPSOIL STOCKPILES, AND ALL AREAS TO BE ROUGH GRADED, BUT NOT FINISHED GRADED DURING THE INITIAL PHASE OF CONSTRUCTION. TEMPORARY SEEDING SHALL BE FAST GERMINATING, TEMPORARY VEGETATION AND INSTALLED IMMEDIATELY FOLLOWING GRADING OR INSTALLATION IF A TEMPORARY MEASURE. SEE ALSO MINIMUM STANDARDS.

PERMANENT SEEDING (3.32) - PERMANENT SEEDING SHALL BE INSTALLED ON ALL DISTURBED AREAS OF THE SITE NOT OTHERWISE STABILIZED.

MULCHING (3.35) - ALL DISTURBED AREAS SHALL BE MULCHED AFTER SEEDING. STRAW MULCH SHALL BE APPLIED AT A RATE OF TWO TONS PER ACRE AND ANCHORED WITH 750 LBS PER ACRE OF FIBER MULCH OVER THE SEEDING AREA.

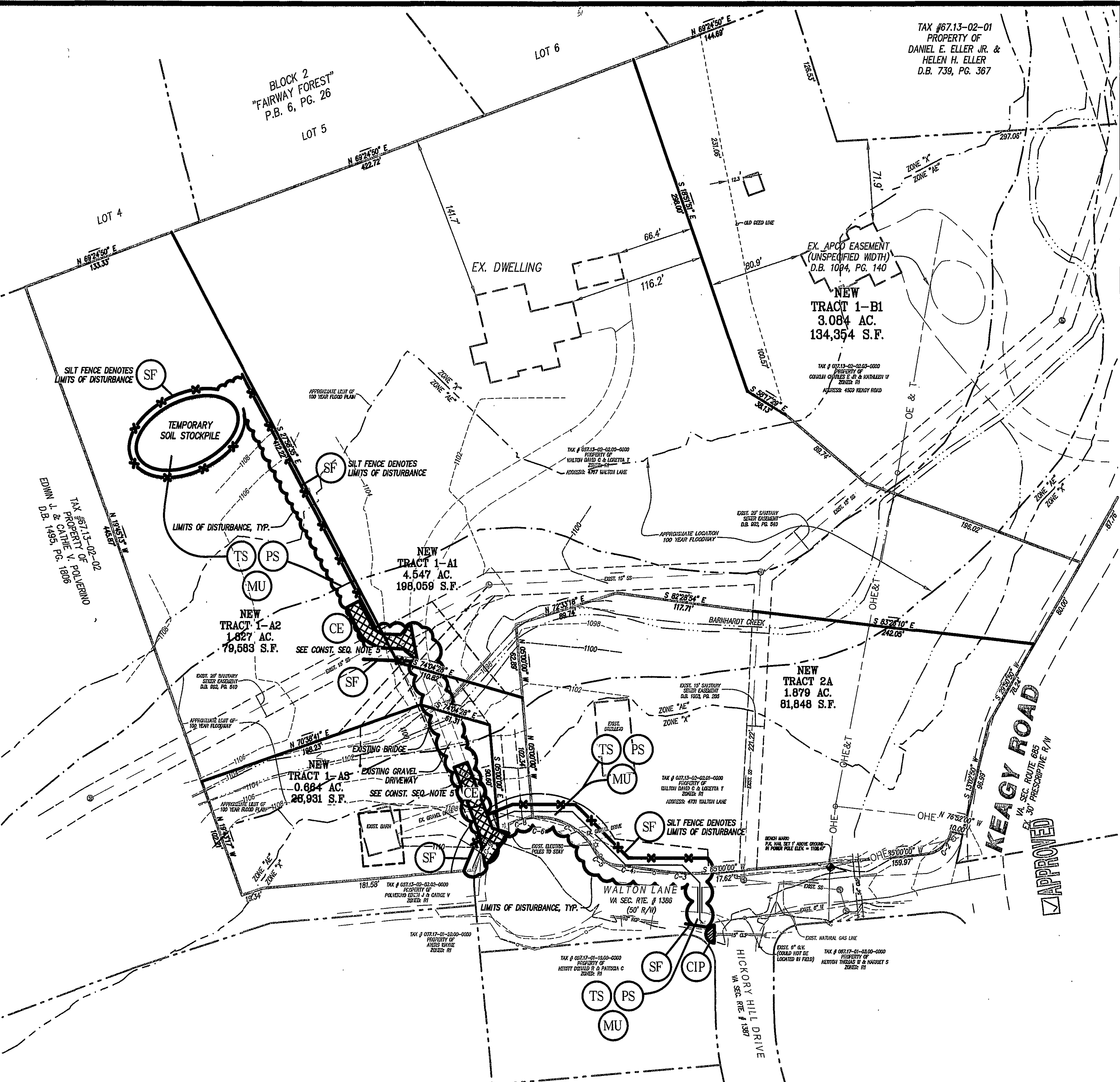
STORMWATER MANAGEMENT

THIS DEVELOPMENT DOES NOT PRODUCE A NEGLIGIBLE INCREASE IN STORMWATER RUNOFF AND BASED ON THIS NEGLIGIBLE INCREASE, A WAIVER FROM ROANOKE COUNTY'S STORMWATER MANAGEMENT REGULATIONS HAS BEEN SUBMITTED TO ROANOKE COUNTY.

MAINTENANCE

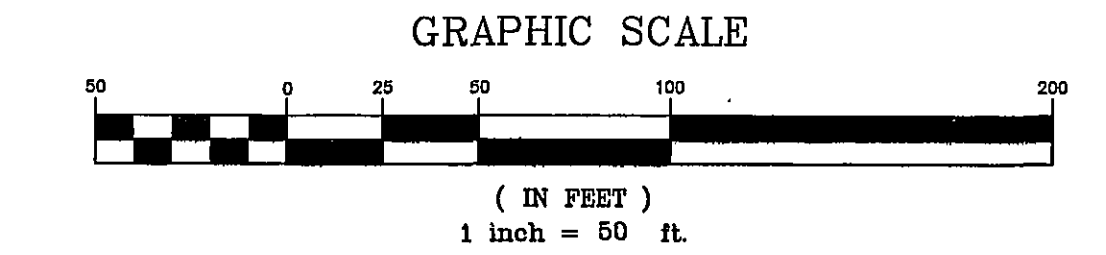
ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. A LOG OF DATES AND INSPECTIONS SHALL BE KEPT. ANY DEFICIENCIES THAT ARE FOUND SHALL BE CORRECTED IMMEDIATELY. IN PARTICULAR:

- CULVERT INLET PROTECTION WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP WHICH WILL PREVENT DRAINAGE. IF STONE IS CLOGGED BY SEDIMENT, IT WILL BE REMOVED AND CLEANED OR REPLACED. THE SILT FENCE WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETRIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN THE SEDIMENT BUILDUP REACHES THE MIDWAY POINT OF THE SILT FENCE.
- THE CONSTRUCTION ENTRANCE WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP. IF STONE IS CLOGGED BY SEDIMENT, IT WILL BE REMOVED AND CLEANED, OR REPLACED.
- ALL SEEDING AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEED AS REQUIRED TO ACHIEVE A GOOD STAND OF GRASS.



CONSTRUCTION SEQUENCE

- THE CONTRACTOR'S CERTIFIED RESPONSIBLE LAND DISTURBER (RLD) SHALL BE NAMED AND A COPY OF HIS RLD CERTIFICATE SHALL BE PROVIDED TO THE ROANOKE COUNTY DEPARTMENT OF COMMUNITY DEVELOPMENT AT LEAST TWO (2) DAYS PRIOR TO THE PRECONSTRUCTION MEETING. RLD SHALL ALSO ATTEND THE PRECONSTRUCTION MEETING.
- CONTRACTOR SHALL BE RESPONSIBLE FOR APPLYING FOR THE DOR LAND DISTURBANCE PERMIT AND SUPPLY ROANOKE COUNTY COMMUNITY DEVELOPMENT WITH A COPY OF SAID PERMIT AT LEAST TWO (2) DAYS PRIOR TO THE PRE-CONSTRUCTION MEETING.
- THE LOCATION OF ALL OFFSITE FILL OR BORROW AREAS ASSOCIATED WITH THIS CONSTRUCTION PROJECT WILL BE PROVIDED TO ROANOKE COUNTY COMMUNITY DEVELOPMENT. AN EROSION AND SEDIMENT CONTROL PLAN OR MEASURES MAY BE REQUIRED FOR THESE AREAS.
- PRIOR TO THE START OF CONSTRUCTION, THE 100 YEAR FLOODPLAIN AND FLOODWAY ADJACENT TO THE CONSTRUCTION AREA SHALL BE STAKED IN THE FIELD.
- INSTALL CONSTRUCTION ENTRANCES. THE EXISTING GRAVEL DRIVEWAY SHALL SERVE AS THE CONSTRUCTION ENTRANCE ADJACENT TO WALTON LANE. ADDITIONAL STONE MAY BE REQUIRED TO INSURE THAT NO DIRT OR MUD IS TRACKED ONTO WALTON LANE. THE EXISTING GRAVEL DRIVEWAY WILL SERVE AS THE HAUL ROAD FROM THE ENTRANCE ONTO WALTON LANE THROUGH THE EXISTING GRAVEL CROSSING OF BARNHART CREEK. AN ADDITIONAL CONSTRUCTION ENTRANCE SHALL BE INSTALLED WHERE THE HAUL ROAD TO THE SOIL STOCKPILE LEAVES THE GRAVEL DRIVEWAY. EXISTING GRAVEL DRIVEWAY TO BE REBUILT AS NECESSARY AFTER CONSTRUCTION IS COMPLETE. COORDINATE WORK WITH THE OWNER.
- INSTALL SILT FENCE AND CULVERT INLET PROTECTION.
- CONTINUE WITH WATER LINE CONSTRUCTION AND HAULING OF OFFSITE MATERIAL TO SOIL STOCKPILE.
- ONCE CONSTRUCTION IS COMPLETE, ALL DENuded AREAS SHALL RECEIVE PERMANENT SEEDING.
- TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED AFTER THOSE AFFECTED AREAS HAVE BEEN BROUGHT TO FINAL GRADE AND AFTER PERMANENT VEGETATION HAS BEEN ESTABLISHED. CONTACT ROANOKE COUNTY FOR PERMISSION PRIOR TO REMOVING ANY ESC MEASURE.



CURVE TABLE						
CURVE	RADIUS	LENGTH	TANGENT	CHORD	BEARING	DELTA
C1	470.00'	245.66'	125.70'	242.87'	S 04°58'21" W	29°56'49"
C2	25.00'	31.36'	18.12'	28.34'	S 49°04'00" W	71°52'00"
C3	235.00'	60.28'	30.29'	60.09'	N 87°39'16" W	14°41'28"
C4	285.00'	26.19'	13.10'	26.18'	N 82°36'30" W	5°15'55"
C5	25.00'	24.59'	13.39'	23.61'	N 57°23'43" W	56°21'29"
C6	55.00'	134.35'	150.93'	103.35'	S 80°48'18" W	139°57'25"
C7	55.00'	63.15'	35.57'	59.74'	N 62°06'29" W	65°47'01"
C8	55.00'	30.36'	15.58'	29.98'	S 69°11'06" W	31°37'47"
C9	55.00'	40.84'	21.41'	39.91'	S 32°05'54" W	42°32'37"

LUMSDEN ASSOCIATES, P.C.
ENGINEERS-SURVEYORS-PLANNERS
ROANOKE, VIRGINIA

THOMAS C. DALE
Lic. No. 033002
1-23-05
PROFESSIONAL ENGINEER

EROSION AND SEDIMENT CONTROL PLAN

WALTON ACRES SUBDIVISION & WATERLINE EXTENSION
PREPARED FOR
DAVID C. WALTON
WINDSOR HILLS MAGISTERIAL DISTRICT
ROANOKE COUNTY, VIRGINIA

REVISIONS	DATE	DESCRIPTION
1		
2		
3		
4		
5		

DATE: October 23, 2008

SCALE: 1" = 50'

COMMISSION NO: 2008-148

SHEET 6 OF 7

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