EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION: REHABILITATION OF +/- 8,500 LF OF 24-INCH SANITARY SEWER AND 36 MANHOLES. NO EXCAVATION IS ANTICIPATE BUT CLEARING AND GRUBBING WILL BE REQUIRED TO ACCESS THE PROJECT AREAS.

EXISTING SITE CONDITIONS: EXISTING CONDITIONS ARE SHOWN ON THE ATTACHED PLAN SHEETS.

ADJACENT PROPERTY: OWNERSHIP, TAX MAP NUMBER, RELEVANT EASEMENT REFERENCES, STREAMS AND ROADS ARE SHOWN FOR EACH ADJACENT AND/OR AFFECTED PROPERTY.

OFF-SITE AREAS: THIS PROJECT WILL RESULT IN A "BALANCED" SITE AND NO EXCESS MATERIAL WILL BE EXPORTED NOR WILL ANY MATERIAL BE IMPORTED FROM OTHER PROPERTIES. IF OFF-SITE AREAS ARE REQUIRED THE LOCATION OF ALL FORSITE FILL BORROW, ANDIOS RETSOLENGE WHITH THE CONSTRUCTION OF THIS PROJECT SHALL BE PROVIDED TO THE WYWA FOR TO THE PRO-CONSTRUCTION MEETING. AN ESC PLAN OR MEASURES MAY BE REQUIRED FOR THESE RAKED.

CRITICAL EROSION AREAS: EARLY ESTABLISHMENT AND PROPER MAINTENANCE OF PERIMETER CONTROLS WILL PROVIDE SEDIMENTATION CONTROL.

NOT ALL OF THE BELOW PRACTICES WILL BE REQUIRED ON THIS PROJECT. HOWEVER, DEPENDING ON THE SITE CONDITION AND ENABLING WORK NECESSARY TO COMPLETE THE PROPOSED WORK, ESC MEASURES WILL BE NEEDED.

TEMPORARY CONSTRUCTION ENTRANCE - A TEMPORARY CONSTRUCTION ENTRANCE SHALL BE PROVIDED AT THE LOCATION INDICATED ON THE PLANS. IT IS IMPERATIVE THAT THIS MEASURE BE MAINTAINED THROUGHOUT

SILT FENCE: SILT FENCE SEDIMENT BARRIERS SHALL BE INSTALLED DOWNSLOPE OF AREAS WITH MINIMAL GRADES TO FILTER SEDIMENT-LADEN RUNOFF FROM SHEET FLOW.

STORM DRAIN INLET PROTECTION: STONE FILTERS SHALL BE PLACED AT THE INLET OF ALL DRAINAGE STRUCTURES.

CULVERT INLET PROTECTION: A SILT FENCE BARRIER SHALL BE INSTALLED AT THE INLET TO STORM SEWER CLII VERTS TO FILTER SEDIMENT-LADEN RUNOFF.

EROSION CONTROL BLANKETS: EROSION CONTROL BLANKETS WILL BE INSTALLED OVER FLL SLOPES (GREATER THAN 23). WHICH HAVE BEEN BROUGHT TO RHAUL GRADE AND HAVE BEEN BEEDED TO PROTECT THE SLOPES (GREATER THAN 23). EROSION AND TO ALLOW SEED TO GERMINATE PROPERLY. MULCH (STRAW) OR PIBERS WILL BE USED ON RELATIVELY FLAT AREAS AND WILL BE APPLIED AS A SECONO STEP IN THE SEEDING OPERATION.

TREE PROTECTION: A FENCE BARRIER IS TO BE PLACED AROUND THE TREES AND VEGETATED AREAS, WHICH WILL NOT BE DISTURBED, TO PROTECT THE TREES AND OTHER VEGETATION FROM CONSTRUCTION EQUIPMENT AND SOIL COMPACTION.

VEGETATIVE PRACTICES TOPSOILING: ANY TOPSOIL SHALL BE STRIPPED FROM AREAS TO BE GRADED AND STOCKPILED FOR USE IN FINAL GRADING AND PERMANENT STABILIZATION. THE STOCKPILES MUST BE STABILIZED WITH TEMPORARY VEGETATION TO PREVENT SOIL LOSS AND SEDIMENT TRANSPORT FROM THE STOCKPILE ITSELF UNTIL NEEDED.

TEMPORARY SEFDING: ALL DENLIDED AREAS WHICH WILL RELEFF DORMANT FOR MORE THAN 30 DAYS SHALL BE SEEDED WITH FAST GERMINATING TEMPORARY VEGETATION MINEDIATELY FOLLOWING GRADING OF THOSE AREAS, SELECTION OF THE SEED MIXTURE SHALL DEPEND ON THE TIME OF YEAR IT IS APPLIED.

PERMANENT SEEDING: ESTABLISHMENT OF PERMANENT VEGETATIVE COVER BY PLACING SEED ON ROUGH GRADED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR A YEAR OR MORE.

MULCHING: APPLICATION OF PLANT RESIDUES OR OTHER SUITABLE MATERIALS TO DISTURBED SURFACES TO PREVENT EROSION AND REDUCE OVERLAND FLOW VELOCITIES.

SOIL STABILIZATION BLANKE IS & MATTING: THE INSTALLATION OF A PROTECTIVE BLANKET OR A SOIL STABILIZATION MAT ON A STEEP SLOPE, CHANNEL, OR SHORELINE.

PERMANENT STABILIZATION

ALL NON-PAVED AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILZED WITH PERMANENT SEEDING IMMEDIATELY POLLOWING PRINSH GRADING. SEEDING SHALL BE IN ACCORDANCE WITH STD. & SPEC. SEED TYPE SHALL BE AS SPECIFIED FOR IMMIRMA. ORAC LAWNEY AND SEEDAR AS LOSED AN INTERPRETABLE OF SEED SHALL BE SEED ON ALL SEEDED SURFACES. IN ALL SEEDING OPERATIONS SEED, FERTILIZER AND LIME SHALL BE APPLIED PRIOR TO MULCHING.

- 1. CONSTRUCTION SHALL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE.
- 2. ISOLATE TRENCHING FOR UTILITIES AND DRAINAGE FROM DOWNSTREAM CONVEYANCES IN ORDER TO MINIMIZE PERIMETER CONTROLS.
- 3. ALL CUT AND FILL SLOPES SHALL BE SEEDED WITHIN SEVEN (7) DAYS OF ACHIEVING FINAL GRADE
- 4 ALL FROSION AND SEDIMENT CONTROL PRACTICES SHALL BE MAINTAINED UNTIL THEY ARE NO LONGER REQUIRED TO COMPLY WITH THE CONTRACT DOCUMENTS OR STATE LAW. ONLY AFTER INSPECTION AND APPROVAL FROM WYWA MAY ITEMS BE REMOVED FOLLOWING THE STABILIZATION OF CONTRIBUTING AREAS.

INSPECTIONS

THE GUERAL CONTRACTOR SHALL INSPECT DISTURBED AREAS OF THE SITE THAT HAVE NOT BEEN FINALLY TATABUSED. AND AREA SHEEP FOR STORAGE OF MATERIAS, THAT ARE EXPOSED TO PRECEDITATION, STRUCTURAL CONTINUENCE, AND THE AREA OF CONSTRUCTION VEHICLE ACCESS AT LEAST EVERY FOURTEEN (14) CAENDAR DAYS, AND WITHIN FORTY FURLY HALLY ON THE END OF A STORM EVENT PRODUCTION 1612 OF GREATER OF PRECIDITATION SHOWN AND AND AREA OF CONSTRUCTION OF THE SHOWN AND AREA OF CONSTRUCTION OF THE SHOWN AND AREA OF THE SHOWN AND AREA

INSPECT DISTURBED AREAS, AND AREAS OF HATERIALS STORAGE THAT ARE EXPOSED TO PRECIPITATION FOR EXPLENCE OF OF THE POTENTIAL FOR REDIMENT ENTERNOR HIS STORM GRAIN SYSTEM INSPECT EAS CONTROLS IN AGORDINACE WITH REQUIREMENTS STATED HEREIN, AND INSPECT FOINTS OF STORM DRAIN DISCHARGE FOR EXCESSIVE SEMBENTATION, CORRECT SITE CONTROLS AS REQUIRED TO REDUCE SEMIMENTATION OF STORM DRAINS, CULVERTS, SEDIMENTATION, CORRECT S AND RECEIVING CHANNELS.

IF CONTROLS OR SEDIMENT PREVENTION AREAS ARE FOUND TO BE IN NEED OF REPAIR OR MODIFICATION, THE GENERAL CONTRACTOR SHALL PROVIDE ADDITIONAL MEASURES OR MODIFICATIONS TO EXISTING MEASURES AS REQUIRED. IN THE VENTTHAT ADDITIONAL CONTROLS ARE FOUND TO BE REQUIRED, THE GENERAL CONTROLTOR SHALL BE RESPONSIBLE FOR MIRE MEMBRITHS THESE CONTROLS BEFORE THE NEXT ANTIOPATED STORM EVENT, IF MIPLEMENTATION BEFORE THE NEXT STORM EVENT IS IMPRACTACLY. THEY SHALL BE MEMBRIEDED AS SOON AS PRACTICES.

A REPORT SUMMARIZING THE SCOPE OF INSPECTIONS, NAME OF INSPECTOR INSPECTOR'S QUALIFICATIONS, DATES OF INSPECTIONS, MAJOR OBSERVATIONS PERIAMING TO THE MEMERATIATION OF HISSE RESIGN CONTROL PLANS, AND ASSETTIONS TAKES PABLE BRANGE AND RETAINED AS A PART OF THESE FANS. MAJOR DISSERVATIONS OF PLASE REPORTS SHALL INCLUDE: THE LOCATIONS OF EXCESSIVE SEDIMENTATION FROM THE SITE. LOCATIONS OF CONTROLS IN NEED OF PERIAL INCLUDED THE LOCATIONS OF EXCESSIVE SEDIMENTATION FROM THE SITE. LOCATIONS OF CONTROLS IN NEED OF PERIAL INCLUDING OF PAUL FOR INADICATION AND ADMINISTRATIONS WHERE ADDITIONAL CONTROLS ARE RESIDED.

MINIMUM STANDARDS FOR EROSION AND SEDIMENT CONTROL

- MS-1. PERMANENT OR TEMPORARY SOLL STABLIZATION SHALL BE APPLIED TO DENLOGED AREAS WITHIN SEVEN DAYS AFTER FARL GRADE IS REACHED ON ANY PORTION OF THE SITE TEMPORARY SOLL STABLIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENLIGED. AREAS THAT MAY NOTE BET FINIL GRADE BUTH LERMAND ORBHAT FOR LORGET THAN I DAYS. PERMANENT STABLIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR.
- MS 2. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES AND BORROW AREAS SHALL BE STABLIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE APPLICANT IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABLIZATION OF ALL SOIL STOCKPIES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY. TRANSPORTED FROM THE PROJECT SITE.
- MS-3. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENLIDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM, MATURE ENOUGH TO SURVIVE AND WILL INHIBIT EROSION.
- MS-4. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT SHALL BE CONSTRUCTED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE USE
- MS-5. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- MS-6. SEDIMENT TRAPS AND SEDIMENT BASINS SHALL BE DESIGNED AND CONSTRUCTED BASED UPON THE TOTAL DRAINAGE AREA TO BE SERVED BY THE TRAP OR BASIN.
 - a. THE MINIMUM STORAGE CAPACITY OF A SEDIMENT TRAP SHALL BE 134 CUBIC YARDS PER ACRE OF DRAINAGE AREA AND THE TRAP SHALL ONLY CONTROL DRAINAGE AREAS LESS THAN THREE ACRES.
 - AND THE IMPAPEMENT CUSTING CONTINUES AND STATE OF THE MEMORY OF THE MEMO THOSE CONDITIONS EXPECTED TO EXIST WHILE THE SEDIMENT BASIN IS UTILIZED.
- MS-7. CUT AND FILL SLOPES SHALL BE DESIGNED AND CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SLOPES THAT ARE FOUND TO BE ERODING EXCESSIVELY WITHIN ONE YEAR OF PERMANENT STABILIZATION SHALL BE PROVIDED WITH ADDITIONAL SLOPE STABILIZING MEASURES UNTIL THE PROBLEM IS CORRECTED.
- MS-8. CONCENTRATED RUNOFF SHALL NOT FLOW DOWN CUT OR FILL SLOPES UNLESS CONTAINED WITHIN AN ADEQUATE TEMPORARY OR PERMANENT CHANNEL, FLUME OR SLOPE DRAIN STRUCTURE.
- MS-9. WHENEVER WATER SEEPS FROM A SLOPE FACE, ADEQUATE DRAINAGE OR OTHER PROTECTION SHALL BE PROVIDED.
- MS-10. ALL STORM SEWER INLETS THAT ARE MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT SEDIMENT-ADEN WATER CANNOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.
- MS-11. BEFORE NEWLY CONSTRUCTED STORMWATER CONVEYANCE CHANNELS OR PIPES ARE MADE OPERATIONAL, ADEQUATE OUTLET PROTECTION AND ANY REQUIRED TEMPORARY OR PERMANENT CHANNEL LINING SHALL BE INSTALLED IN BOTH THE CONVEYANCE CHANNEL AND RECEIVING CHANNEL
- MS-12. VIHEN WORK IN A LIVE WATERCOURSE IS PERFORMED, PRECAUTIONS SHALL BE TAKEN TO MINIMIZE ENCROACHMENT. CONTROL SEDIMENT TRANSPORT AND STABILIZE THE WORK AREA TO THE GREATEST EXTENT POSSIBLE DURING CONSTRUCTION NO NORDOBLE MATERIAL SHALL BE USED FOR THE CONSTRUCTION OF CAUSEWAYS AND COFFERDAM EARTHEN FILL MAY BE USED FOR THESE STRUCTURES IF ARMORED BY NONERODIBLE COVER MATERIALS.
- MS-13. WHEN A LIVE WATERCOURSE MUST BE CROSSED BY CONSTRUCTION VEHICLES MORE THAN TWICE IN ANY SIX-MONTH PERIOD, A TEMPORARY VEHICULAR STREAM CROSSING CONSTRUCTED OF NONERODIBLE MATERIAL SHALL BE PROVIDED.
- MS-14. ALL APPLICABLE FEDERAL, STATE AND LOCAL CHAPTERS PERTAINING TO WORKING IN OR CROSSING LIVE WATERCOURSES SHALL BE MET.
- MS-15. THE BED AND BANKS OF A WATERCOURSE SHALL BE STABILIZED IMMEDIATELY AFTER WORK IN THE WATERCOURSE IS COMPLETED.
- MS-16. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
 - a. NO MORE THAN 500 LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME
 - b. EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHES.
 - c. EFFLUENT FROM DEWATERING OPERATIONS SHALL BE FILTERED OR PASSED THROUGH AN APPROVED SEDIMENT TRAPPING DEVICE, OR BOTH, AND DISCHARGED IN A MANNER THAT DOES NOT ADVERSELY AFFECT FLOWING STREAMS OR OFF-SITE PROPERTY.
- MATERIAL USED FOR BACKFILLING TRENCHES SHALL BE PROPERLY COMPACTED IN ORDER TO MINIMIZE EROSION AND PROMOTE STABILIZATION.
- RESTABILIZATION SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THIS CHAPTER
- f. APPLICABLE SAFETY CHAPTERS SHALL BE COMPLIED WITH
- 7. WHERE CONSTRUCTION VEHICLE ACCESS ROLITES INTERSENT PAINT OR PURIL ROLARS PROVISIONS SHALL RE MARK TO MINIMAZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACONG ONTO THE PAVED SUPPACE. WHERE SEDIMENT IS TRANSPORTED ONTO A PAVED OR PURILS CONSO SUPPACE. THE RODO SUPPACE OF PORTULE CLEAMED TOROGOUGHLY AT THE END OF EACH DAY. SEDIMENT SHALL BE REMOVED FROM THE RODOR BY SHOVELING OR SWEEPING AND TRANSPORTED TO A SEDIMENT CONTROL CIPICADA EARS A TREET WASHINGS SHALL BE ALLOWED ONLY AT PER SEDIMENT IS REMOVED TO TO A SEDIMENT CONTROL CIPICADA EARS TREET WASHINGS SHALL BE ALLOWED ONLY AT PER SEDIMENT IS REMOVED TO. HIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND
- MS-18. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED E THE VESC AUTHORIZED. THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED E THE VESC AUTHORIZED. TRAPPED SEDIMENT AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FUTHER EROSION AND SEDIMENTATION.
- MS-18 PROCESTIES AND WAITEMANYS CONNETTEND HIGH EXPERIENCESTIES SALL SE PROTECTIOS PROMISES EXPENSIVE DESCRIPTION RESOURCES AND DESCRIPTION RESOURCES. TO EXPENSIVE DESCRIPTION RESOURCES AND PROMISES AND RESOURCES AND PROMISES AND DESCRIPTION RESOURCES AND DESCRIPTION RESOURCES AND DESCRIPTION RESOURCES AND DEALE EXPENSIVE THAT INCREMENT AND THAT AND DESCRIPTION RESOURCES AND DEALE EXPENSIVE THAT INCREMENT AND THAT AND AND DESCRIPTION RESOURCES AND DEALE EXPENSIVE THAT AND PROMISES AND DEALE EXPENSIVE AND THAT INCREMENT AND THAT AND AND THAT INCREMENT AND THAT AND THAT
 - a. CONCENTRATED STORMWATER RUNOFF LEAVING A DEVELOPMENT SITE SHALL BE DISCHARGED DIRECTLY INTO AN ADSQUATE NATURAL OR MAN MADE RECEIVING CHANNEL, PIPE OR STORM SEWER SYSTEM. FOR THOSE SITES WHERE RUNOFF IS DISCHARGED INTO A PIPE OR PIPE SYSTEM, DOWNSTREMA STABILITY NAVIYSES AT THE CUITALL OF THE PIPE OR PIPE SYSTEM SHALL BE PERFORME
 - 6. ADEQUACY OF ALL CHANNELS AND PIPES SHALL BE VERIFIED IN THE FOLLOWING MANNER
 - 1) IMPROVE THE CHANNELS TO A CONDITION WHERE A TENUYEAR STORM WILL NOT OVERTOR THE BANKS AND A TWO-YEAR STORM WILL NOT CAUSE EROSION TO CHANNEL THE BED OR BANKS; OR
 - 2) (a) NATURAL CHANNELS SHALL BE ANALYZED BY THE USE OF A TWO-YEAR STORM TO VERIFY THAT STORMWATER WILL NOT OVERTOP CHANNEL BANKS NOR CALISE EROSION OF CHANNEL BED OR BANKS
 - (b) ALL PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS SHALL BE ANALYZED BY THE LOSE OF A TEN-YEAR STORM TO VERRY THAT STORMWATER WILL NOT OVERTOP ITS BANKS AND BY THE USE OF A TWO-YEAR STORM TO DEMONSTRATE THAT STORMWATER WIL
 - (c) PIPES AND STORM SEWER SYSTEMS SHALL BE ANALYZED BY THE USE OF A TEN-YEAR STORM TO VERIFY THAT STORMWATER WILL BE CONTAINED WITHIN THE PIPE OR SYSTEM.

- IF EXISTING NATURAL RECEIVING CHANNELS OR PREVIOUSLY CONSTRUCTED MAN-MADE CHANNELS OR PIPES ARE NOT ADEQUATE, THE APPLICANT SHALL:
 - 1) IMPROVE THE CHANNELS TO A CONDITION WHERE A TEN-YEAR STORM WILL NOT OVERTOP THE BANKS AND A TWO-YEAR STORM WILL NOT CAUSE EROSION TO CHANNEL THE BED OR BANKS: OF
 - 2) IMPROVE THE PIPE OR PIPE SYSTEM TO A CONDITION WHERE THE TEN-YEAR STORM IS CONTAINED WITHIN
 - 3) DEVELOP A SITE DESIGN THAT WILL NOT CAUSE THE PRE-DEVELOPMENT PEAK RUNOFF RATE FROM A TWO YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A NATURAL CHANNEL OR WILL NOT CAUSE THE PREDEVELOPMENT PEAK RUNOFF RATE FROM A TEN-YEAR STORM TO INCREASE WHEN RUNOFF OUTFALLS INTO A MANDAGE CHANNEL. OF
 - PROVIDE A COMBINATION OF CHANNEL IMPROVEMENT, STORMWATER DETENTION OR OTHER MEASURES WHICH IS SATISFACTORY TO THE VESCP AUTHORITY TO PREVENT DOWNSTREAM EROSION.
- d. THE APPLICANT SHALL PROVIDE EVIDENCE OF PERMISSION TO MAKE THE IMPROVEMENTS.
- ALL HYDROLOGIC ANALYSES SHALL BE BASED ON THE EXISTING WATERSHED CHARACTERIS DEVELOPMENT CONDITION OF THE SUBJECT PROJECT.
- IF THE APPLICANT CHOOSES AN OPTION THAT INCLIDES STORMWATER DETENTION, HE SHALL OSTAIN APPROVAL FROM THE VESCP OF A PLAN FOR MAINTENANCE OF THE DETENTION FACILITIES. THE PLAN SHALL SET FORTH THE MAINTENANCE REQUIREMENTS OF THE FACILITY AND THE PERSON RESPONSIBLE FOR PERFORMING THE
- G. OUTFALL FROM A DETENTION FACILITY SHALL BE DISCHARGED TO A RECEIVING CHANNEL, AND ENERGY DISSIPATORS SHALL BE PLACED AT THE OUTFALL OF ALL DETENTION FACILITIES AS NECESSARY TO PROVIDE A STABILIZED TRANSITION FROM THE FACILITY TO THE DETENDING CHANNET.
- h. ALL ON-SITE CHANNELS MUST BE VERIFIED TO BE ADEQUATE.
- INCREASED VOLUMES OF SHEET FLOWS THAT MAY CAUSE EROSION OR SEDIMENTATION ON ADJACENT PROPERTY SHALL BE DIVERTED TO A STABLE OUTLET, ADEQUATE CHANNEL, PIPE OR PIPE SYSTEM, OR TO A DETENTION FACILITY
- j. IN APPLYING THESE STORMWATER MANAGEMENT CRITERIA, INDIVIDUAL LOTS OR PARCELS IN A RESIDENTIA COMMERCIAL OR INDUSTRIAL DEVELOPMENT SHALL NOT BE CONSIDERED TO BE SEPARATE DEVELOPMENT PROJECTS. INSTEAD, THE DEVELOPMENT, AS A WHOLE, SHALL BE CONSIDERED TO BE A SINGLE DEVELOPMENT PROJECT. HYDROLOGIC PARAMETERS THAT REFLECT THE ULTIMATE DEVELOPMENT CONDITION SHALL BE USED IN ALL.
- k. ALL MEASURES USED TO PROTECT PROPERTIES AND WATERWAYS SHALL BE EMPLOYED IN A MANNER WHICH MINIMIZES IMPACTS ON THE PHYSICAL, CHEMICAL AND BIOLOGICAL INTEGRITY OF RIVERS. STREAMS AND OTHER WATERS OF THE STATE.
- I. ANY PLAN APPROVED PRIOR TO JULY1, 2014, THAT PROVIDES FOR STORMMATER MANAGEMENT THAT ADDRESSES ANY FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL OR MAN-MADE CHANNELS SHALL SATISFY THE FLOW RATE CAPACITY AND VELOCITY REQUIREMENTS FOR NATURAL, OR MAN-MADE CHANNELS IF THE PRACTICES ARE
- I. DETAIN THE WATER QUALITY VOLUME AND TO RELEASE IT OVER 48 HOURS:
 - II. DETAIN AND RELEASE OVER A 24-HOUR PERIOD THE EXPECTED RAINFALL RESULTING FROM THE ONE YEAR, 24- HOUR STORM: AND
- ii. REDUCE THE ALLOWABLE PEAK FLOW RATE RESULTING FROM THE 1.5. 2. AND 10-YEAR .24-HOU
- M. FOR PLANS ABROADED ON AND AFTER JULY 1, 2014, THE FLOWINATE CANNOTY AND VELODITY REQUIREMENTS OF \$10.1-58 A.OF THE ACT AND THIS SUBSECTION SHALL BE SATISFIED BY COMPLIANCE WITH WATER QUANTTY REQUIREMENT IN THE STORWANDER WANDAGEMENT ACT (\$10.1-40.2 ET SEQ. OF THE CODE OF VIRGINARY AND ATTENDANT REGULATIONS, WHLESS SUCH LAND- DISTURBING ACTIVITIES ARE IN ACCORDANGE WITH 4ACGOS 60.48 OF THE VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) PERMIT REGULATIONS
- n. COMPLIANCE WITH THE WATER QUANTITY MINIMUM STANDARDS SET OUT IN 4VAC50-60-66 OF THE VIRGINI. STORMWATER MANAGEMENT PROGRAM (VSMP) PERMIT REGULATIONS SHALL BE DEEMED TO SATISFY THE REQUIREMENTS OF MINIMUM STANDARD 19.

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- ES-1: UNLESS OTHERWISE INDICATED, CONSTRUCT AND MAINTAIN ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRIGINAL EROSION AND SEDIMENT CONTROL HANDROOK AND VIRIGINIA REGULI ATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS.
- ES-2: WWWA INSPECTORS WILL MAKE A CONTINUING REVIEW AND EVALUATION OF THE METHODS AND EFFECTIVENESS OF THE C.S.C. PLAN.
- ES-3: PLACE ALL EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO OR AS THE FIRST STEP IN CLEARING, GRADING, OR LAND DISTURBANCE.
- ES-4: MAINTAIN A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN ON THE SITE AT ALL TIMES.
- ES-S: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THEES PLANS INCLUDING. BUT NOT I IMITED TO OFFSITE BORROW OR WASTE AREA!, SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE ARCHITECT
- ES-6: PROVIDE ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE LOCAL AUTHORITY HAVING JURISDICTION.
- ES-7: ALL DISTURBED AREAS SHALL DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND-DISTURBING ACTIVITIES AND DURING SHE DEVELOPMENT.
- ES-8: DURING DEWATERING OPERATIONS, PUMP WATER INTO AN APPROVED FILTERING DEVICE.
- ES-9: INSPECT ALL EROSIÓN CONTROL MEASURES DAILY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. MAKE ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES IMMEDIATELY.

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