## EROSION & SEDIMENT CONTROL NARRATIVE:

PROJECT DESCRIPTION:

- 1.1 THE PURPOSE OF THIS PROJECT IS TO PERFORM DEMOLITION AND REMOVAL OF THE EXISTING BUILDING AND SITE FEATURES (PARKING AREAS / CONCRETE APRONS) AND DENNISTON AVENUE), MINOR / INCIDENTAL CLEARING, GRADING, RETAINING WALL CONSTRUCTION, STORM DRAINAGE INSTALLATION, UTILITY CONSTRUCTION (WATER & SEWER), PAVING, AND OTHER SITE DEVELOPMENT CONSTRUCTION REQUIRED FOR THE CONSTRUCTION OF THE NEW FIRE STATION AND SUPPORTING SITE DEVELOPMENT COMPONENTS.
- 1.2 THE PROJECT SITE AREA IS COMPRISED OF THE FOLLOWING AREAS: THE EXISTING FIRE STATION SITE, PART OF OUR STREET (A PUBLIC STREET), DENNISTON AVENUE (A PUBLIC STREET) AND A PORTION OF TAX PARCEL 1330606. THESE AREAS ARE TO BE COMBINED INTO A SINGLE PARCEL OF LAND (CITY OF ROANOKE TAX PARCEL NUMBER 1330401) AND THE RESULTING SITE AREA WILL BE +/- 2.46 ACRES. SEE SHEET C1.1 (EXISTING CONDITIONS / SURVEY) FOR ADDITIONAL INFORMATION REGARDING THE PROPERTY LINES WHICH DEFINE THE PROJECT SITE AREA.
- 1.3 THE TOTAL AREA OF PROPOSED LAND DISTURBANCE IS 1.16-ACRES (50,568-SQUARE FEET) AS SHOWN ON SHEETS C7.1 AND C7.2.
- 1.4 TO MINIMIZE THE POTENTIAL FOR SILT—LADEN RUNOFF LEAVING THE SITE, EROSION AND SEDIMENT CONTROL (E&SC) MEASURES SHALL BE PROVIDED AS SHOWN AND SPECIFIED ON THESE PLANS AND AS OUTLINED IN THIS E&SC NARRATIVE. THE E&SC MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH THE "CITY OF ROANOKE EROSION AND SEDIMENT CONTROL ORDINANCE" AND THE DETAILS AND SPECIFICATIONS FOUND IN THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK", LATEST EDITION.
- 1.5 SEQUENCING OF WORK: DUE TO THE LOCATION OF THE SITE RELATIVE TO OUR STREET AND DENNISTON AVENUE AND THE REQUIREMENTS TO STAGE/SEQUENCE THE WORK, AND IN ORDER TO MINIMIZE THE POTENTIAL FOR SOIL EROSION AND SEDIMENTATION OF DOWNSTREAM WATERWAYS AND PROPERTIES, THE WORK OF THE PROJECT SHOULD BE STAGED AND EXECUTED GENERALLY CHRONOLOGICALLY IN ACCORDANCE WITH THE GENERAL SEQUENCE OF WORK CONTAINED ON SHEETS C7.1 AND C7.2.
- 2 EXISTING SITE CONDITIONS:
- 2.1 LAND COVER: THE EXISTING SITE IS CURRENTLY DEVELOPED AS: A FIRE STATION, TWO PUBLIC STREETS (DENNISTON AVENUE & OUR STREET), AND VACANT UNDEVELOPED LAND LOCATED TO THE SOUTH AND WEST OF DENNISTON AVENUE. THERE IS A SMALL AREA OF TREE COVER / WOODED AREAS IN THE PROJECT SITE AREA LOCATED ALONG THE SOUTH BOUNDARY, BUT THE SITE IS GENERALLY DEVOID OF MATURE TREES.
- 2.2 SLOPES/TOPOGRAPHY: THE EXISTING TOPOGRAPHY (SHOWN AT 1-FOOT CONTOUR INTERVAL) IS SHOWN ON SHEET C1.1. THE PROJECT SITE AREA GENERALLY SLOPES FROM SOUTH TO NORTH WITH THE HIGH-POINT ON THE SITE BEING THE SOUTHERN BOUNDARY AND THE LOW-POINT OF THE SITE BEING ALONG THE SOUTHERN EDGE OF MEMORIAL AVENUE. THE SITE SLOPES ARE HIGHLY VARIABLE, WITH THE UPPER REACHES ALONG THE SOUTHERN PERIMETER (IN THE NATURAL AREA) REACHING SLOPES OF 2H:1V (50-PERCENT), THE SLOPE ALONG UPPER PORTION OF OUR STREET AND DENNISTON AVENUE REACHING 10-PERCENT, AND THE MAJORITY OF THE DEVELOPED SITE RANGING FROM 2 TO 3-PERCENT.
- 2.3 DRAINAGE FEATURES: THERE ARE SEVERAL DRAINAGE FEATURES / STRUCTURES ON AND IMMEDIATELY ADJACENT THE PROJECT SITE. THESE STRUCTURE ARE PART OF THE CITY OF ROANOKE'S DRAINAGE SYSTEM. THESE STRUCTURES (MANHOLES AND INLETS) AND DRAINAGE SYSTEM INCLUDE: INLETS LOCATED IN THE CURBLINE ALONG MEMORIAL AVENUE, AN INLET ON THE EASTERN SIDE OF OUR STREET WHERE IT INTERSECTS MEMORIAL AVENUE, AND TWO INLETS ABOVE THE SITE ON DENNISTON AVENUE BEFORE IT INTERSECTS WITH OUR STREET. THE EXISTING INLETS AND PIPING SYSTEMS CONTINUE IN A NORTHERLY DIRECTION CROSSING MEMORIAL AVENUE WHERE THEY ENTER AN EXISTING 6—FOOT BY 4—FOOT CULVERT ON THE NORTH SIDE OF MEMORIAL AVENUE. STORMWATER RUN—OFF FROM THE PAVED AREAS OF THE EXISTING SITE GENERALLY DRAINS BY SHEET—FLOW INTO THE ADJOINING PUBLIC STREETS. THE ROOF OF THE EXISTING BUILDING FLOWS VIA A ROOF DRAIN PIPED SYSTEM INTO THE ADJOINING SYSTEM. THE LOCATION OF THE DRAINAGE FEATURES WITHIN THE PROJECT AREA ARE SHOWN ON SHEET C1.1.
- 3 ADJACENT PROPERTY:
- 3.1 THE PROJECT SITE IS BORDERED ON THE SOUTH AND WEST BY LAND THAT IS GENERALLY UNDEVELOPED AND OPEN GRASSED LAND. STORMWATER RUN—OFF FROM THE OFF—SITE AND ON—SITE AREAS TO THE SOUTH AND WEST SHEET FLOW INTO DENNISTON AVENUE AND THEN FLOW IN THE GUTTER TO INLETS LOCATED AT THE INTERSECTION OF DENNISTON AVENUE AND MEMORIAL AVENUE (INLETS D1 & D3). RUN—OFF FROM THESE OFF—SITE AREAS AND ANY CONTRIBUTING AREA FROM DENNISTON AVENUE SOUTH OF THE PROJECT SITE WILL DRAIN INTO THE PROJECT SITE AND SHOULD BE ADDRESSED BY THE E&SC MEASURES SPECIFIED ON THESE PLANS AS THERE IS A HIGH POTENTIAL FOR SEDIMENT LADEN WATER LEAVING THE PROJECT SITE VIA THIS PATH.
- 3.2 THE PROJECT SITE IS BORDERED ON THE NORTH BY EXISTING MEMORIAL AVENUE. STORMWATER RUN-OFF FROM THE EXISTING BUILDING AND DEVELOPED AREA SHEETS FLOWS TO MEMORIAL AVENUE AND IS COLLECTED BY GUTTERS AND INLETS WITHIN THE STREET. IN ADDITION, RUN-OFF FROM DENNISTON AVENUE AND OUR STREET DRAIN DIRECTLY INTO MEMORIAL AVENUE. RUN-OFF FROM THE PROJECT SITE TO THE NORTHERN PERIMETER SHOULD BE ADDRESSED BY THE E&SC PLAN AS THERE IS A HIGH POTENTIAL FOR SEDIMENT LADEN WATER LEAVING THE PROJECT SITE VIA THIS
- 3.3 THE PROJECT SITE IS BORDERED ON THE EAST BY EXISTING OUR STREET. OUR STREET DRAINS FROM SOUTH TO NORTH AND STORMWATER RUNOFF DISCHARGES INTO THE EXISTING STORMWATER SYSTEM AT THE INTERSECTION OF OUR STREET AND MEMORIAL AVENUE (INLETS D4 AND D9). SMALL AREAS OF THE PROJECT SITE (THE EASTERN ENTRY APRON AND SMALL AREA OF LAWN) RUN-OFF BY SHEET-FLOW INTO OUR STREET. RUN-OFF FROM OUR STREET TO THE NORTHERN PERIMETER SHOULD BE ADDRESSED BY THE E&SC PLAN AS THERE IS A HIGH POTENTIAL FOR SEDIMENT LADEN WATER LEAVING THE PROJECT SITE VIA THIS PATH.
- 4 SOILS:
- 4.1 A DETAILED SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING EVALUATION WAS PERFORMED FOR THIS PORTION OF THE PROJECT. THE SOILS THAT ARE CURRENTLY IN-PLACE ARE EITHER NATIVE IN-SITU SOILS OR FROM PRIOR GRADING ACTIVITIES. THE SOILS WERE CLASSIFIED AS GENERALLY SANDS (SC) AND CLAYS (CH
- 4.2 PER THE USDA WEB SOIL SURVEY (WSS), THE SOIL TYPES WITHIN THE PROJECT LIMITS ARE CHISWELL—LITZ—URBAN LAND COMPLEX (6C) AND URBAN LAND. THE URBAN LAND SOIL UNIT IS A MISCELLANEOUS AREA. WET AREAS GENERALLY MAKE UP 5 PERCENT OF THE MAP UNIT. SLOPES ARE 0 TO 2 PERCENT. THE PARENT MATERIAL CONSISTS OF ALLUVIUM. DEPTH TO A ROOT RESTRICTIVE LAYER IS GREATER THAN 60 INCHES. THE NATURAL DRAINAGE CLASS IS POORLY DRAINED DUE TO IMPERVIOUS

- SURFACES AND COMPACTION OF SOIL. WATER MOVEMENT IN THE MOST RESTRICTIVE LAYER IS MODERATELY HIGH. AVAILABLE WATER TO A DEPTH OF 60 INCHES IS HIGH. SHRINK—SWELL POTENTIAL IS LOW. THIS SOIL IS OCCASIONALLY FLOODED. IT IS OCCASIONALLY PONDED. A SEASONAL ZONE OF WATER SATURATION IS AT 9 INCHES DURING JANUARY, FEBRUARY, MARCH, APRIL, MAY, AND DECEMBER. ORGANIC MATTER
- CONTENT IN THE SURFACE HORIZON IS ABOUT 3 PERCENT.

  4.3 BASED ON A REVIEW OF THE AVAILABLE SUB—SURFACE INVESTIGATIONS AND KNOWLEDGE OF THE ON—SITE SOILS, THE SOILS ARE NOT DEEMED "MODERATELY ERODIBLE."
- 4.4 IT IS ANTICIPATED THE EARTHWORK FOR THE PROJECT WILL BALANCE. HOWEVER, THERE IS ALWAYS THE POTENTIAL TO ENCOUNTER UNSUITABLE SOILS. IF THIS SITUATION OCCURS, UNSUITABLE MATERIALS WILL NEED TO BE HAULED OFF THE SITE AND SUITABLE MATERIALS WILL BE IMPORTED AND PLACED ON THE SITE. MATERIAL HAULED FROM THE PROJECT SITE WILL BE DISPOSED OF IN A LEGAL MANNER ON A PERMITTED SITE.
- 5 CRITICAL EROSION AREAS:
- 5.1 STEEP SLOPES: DENUDED SLOPES AND PROPOSED CUT/FILL SLOPES POSE A HIGH POTENTIAL FOR EROSION AND ACCORDINGLY, ALL NEWLY DENUDED AND/OR CONSTRUCTED SLOPES BETWEEN 2H:1V AND 3H:1V ON THE PROJECT SITE ARE CONSIDERED "HIGH EROSION AREAS." THESE SLOPES SHOULD BE GRADED TO THEIR FINAL CONDITION AS QUICKLY AS POSSIBLE AND IMMEDIATELY STABILIZED IN ACCORDANCE WITH THE PROVISIONS OF THE PLANS AND NARRATIVES. ALL SLOPES IN EXCESS OF 3H:1V ARE TO BE FURTHER STABILIZED WITH SOIL STABILIZATION BLANKET AND MATTINGS.
- 6 EROSION AND SEDIMENT CONTROL MEASURES:
- 6.1 UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL MEASURES WILL 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." MEASURES SPECIFICALLY IDENTIFIED ON THESE PLANS ARE LISTED BELOW.
- 6.2 CONSTRUCTION ENTRANCE (CE) AND CONSTRUCTION ROAD STABILIZATION (CRS): A CONSTRUCTION ENTRANCE IS SHOWN ON SHEET C7.1 AND C7.2. DUE TO PHASING CONSTRUCTION, THE INITIAL CE WILL HAVE TO BE RELOCATED. THE CONTRACTOR SHALL ENSURE VEHICLES LEAVING THE WORK AREA ARE FREE OF EXCESS MUD, DIRT, AND DUST. VEHICLE WASH—DOWN PROVISIONS SHALL BE ADDED IF REQUIRED BY E&SC INSPECTOR. THE CONSTRUCTION ROAD STABILIZATION (CRS) CONSISTS OF THE TEMPORARY STABILIZATION OF ACCESS ROADS, AND ON—SITE PARKING AREAS WITH STONE IMMEDIATELY AFTER GRADING. THE PURPOSE OF THE CRS IS TO REDUCE THE EROSION OF TEMPORARY ROADBEDS BY CONSTRUCTION TRAFFIC DURING WET WEATHER AND REDUCE THE EROSION AND SUBSEQUENT RE—GRADING OF PERMANENT ROADBEDS BETWEEN THE TIME OF INITIAL GRADING AND FINAL STABILIZATION.
- 6.3 SILT FENCE / SEDIMENT BARRIERS / FILTER SOCK (SF)/(SSF)/(FS): SILT FENCE SHALL BE INSTALLED AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN AND IN CONFORMANCE WITH STD. AND SPEC. 3.05 IT WILL INTERCEPT SILT LADEN RUNOFF BEFORE IT EXITS THE SITE. SILT FENCE INSTALLATION SHALL BE COORDINATED WITH AND INSPECTED BY THE EROSION AND SEDIMENT CONTROL INSPECTOR OR REPRESENTATIVE. GIVEN THAT PORTIONS OF THE PROJECT PERIMETER ARE ADJACENT TO EXISTING ASPHALT, THE CONTRACTOR MAY ELECT TO DEPLOY AN APPROVED SEDIMENT BARRIER.
- 6.4 TOPSOILING (TO): SHALL BE APPLIED TO ALL DISTURBED AREAS WHICH ARE TO RECEIVE PERMANENT SEEDING AS INDICATED ON THE EROSION AND SEDIMENT CONTROL PLAN AND SHALL BE APPLIED IN ACCORDANCE WITH THE STD. AND SPEC. 3.30. TOPSOILING PROVIDES A METHOD FOR PRESERVING AND RE-USING THE SURFACE LAYER OF SOIL, OFTEN ENRICHED IN ORGANIC MATTER, IN ORDER TO OBTAIN A MORE DESIRABLE PLANTING AND GROWTH MEDIUM.
- 6.5 TEMPORARY SEEDING / STABILIZATION (TS): SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE AND SHALL CONFORM TO STD. AND SPEC. 3.31. ADDITIONALLY, TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN FOURTEEN (14) DAYS IN CONFORMANCE WITH STD. AND SPEC. 3.31.
- 6.6 PERMANENT SEEDING (PS): ALL DISTURBED AREAS BROUGHT TO FINAL GRADE THAT ARE NOT BUILT UPON (BUILDING, PAVEMENT, WALKS, ETC.) OR THAT ARE NOT LANDSCAPED SHALL BE SEEDED IN CONFORMANCE WITH STD. AND SPEC. 3.32. PERMANENT STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE.
- 6.7 INLET PROTECTION (IP): SHALL BE INSTALLED AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN AND IN CONFORMANCE WITH STD. AND SPEC. 3.07. INLET PROTECTIONS ARE PROVIDED IN ORDER TO FILTER RUNOFF BEFORE IT ENTERS THE STORM DRAINAGE SYSTEM.
- 6.8 DIVERSION (DV/DD/RWD): DIVERSIONS SHALL BE INSTALLED AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN AND IN CONFORMANCE WITH STD. AND SPEC. 3.09, 3.12, AND 3.11. THE DIVERSIONS WILL INTERCEPT AND DIVERT STORMWATER RUNOFF AT NON-EROSIVE VELOCITIES TO THE NEW STORM DRAIN SYSTEM, TO TEMPORARY SEDIMENT TRAPS, OR OTHER APPROVED CONTROL MEASURES.
- 6.9 RIP-RAP BERMS / CHECK DAMS (RR/CD): SHALL BE INSTALLED AS SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN AND IN CONFORMANCE WITH STD. AND SPEC. 3.19. RIPRAP PROTECTS AND STABILIZES SLOPES AND SOILS IN CRITICAL EROSION AREAS. ADDITIONALLY, RIPRAP SLOWS THE VELOCITY OF CONCENTRATED RUNOFF.
- 6.10 SOIL STABILIZATION MATTING (B/M): SHALL BE VDOT STANDARD TYPE "TREATMENT 1" AND SHALL BE INSTALLED IN THE LOCATION SHOWN ON THE EROSION AND SEDIMENT CONTROL PLAN AND SHALL CONFORM TO STD. AND SPEC. 3.36. MATTING CAUSES SOIL/SEDIMENT TO DROP OUT OF STORMWATER AND FORMS AN EROSION RESISTANT VEGETATIVE COVER IN CHANNELS AND ON STEEP SLOPES.
- 7 MANAGEMENT STRATEGY AND SEQUENCE OF CONSTRUCTION:
- 7.1 CONSTRUCTION SHALL BE SEQUENCED SO LAND DISTURBING AND GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS POSSIBLE. REFER TO THE "GENERAL SEQUENCE OF WORK" ON SHEETS C7.1 AND C7.2 FOR ADDITIONAL INFORMATION.
- 7.2 THE LIMITS OF LAND DISTURBANCE SHALL BE CLEARLY MARKED PRIOR TO START OF WORK.
- 7.3 SEDIMENT TRAPPING AND PERIMETER MEASURES SHALL BE INSTALLED AS THE FIRST STEP IN THE GRADING OPERATION AND SHALL BE SEEDED AND MULCHED IMMEDIATELY FOLLOWING INSTALLATION.
- 7.4 TEMPORARY SEEDING (TS) OR OTHER STABILIZATION MEASURES SHALL BE PLACED IMMEDIATELY FOLLOWING GRADING.
- 7.5 THE PROJECT SUPERINTENDENT OR THE RESPONSIBLE LAND DISTURBER (RLD) SHALL BE
  DIRECTLY RESPONSIBLE TO ENSURE THE MEASURES SPECIFIED HEREIN ARE
  AND MAINTAINED AND THE SEQUENCE OF WORK IS FOLLOWED.

  | NSTALLED City of Roanoke Planning, Building, & Deve
- 7.6 AFTER PERFORMANCE OF THE WORK OF THE PROJECT AND UPON ACHIEVING ADEQUATESIVE DEVELOPMENT PLAN

NSTALLED City of Roanoke
Planning, Building, & Development

APPROVED

by Ken Richardson

07/08/2019

STABILIZATION, THE TEMPORARY E&SC MEASURES WILL BE CLEANED UP AND REMOVED.

## 8 INSPECTION & MAINTENANCE REQUIREMENTS:

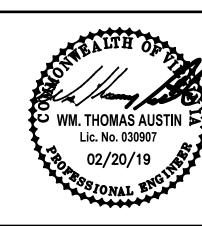
- 8.1 THE CONTRACTOR IS RESPONSIBLE FOR ADHERING TO ALL MAINTENANCE REQUIREMENTS OF THE EROSION AND SEDIMENT CONTROL MEASURES AS OUTLINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK.
- 8.2 ALL EROSION AND SEDIMENT MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL. THE ITEMS LISTED BELOW WILL BE CHECKED IN ACCORDANCE WITH THE REQUIREMENTS FOR EACH PARTICULAR ITEM.
- 8.3 STD & SPEC 3.02 TEMPORARY STONE CONSTRUCTION ENTRANCE (CE) THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT—OF—WAY. THIS WILL REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE OR THE WASHING AND REWORKING OF EXISTING STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY. THE USE OF WATER TRUCKS TO REMOVE MATERIALS DROPPED, WASHED, OR TRACKED ONTO ROADWAYS WILL NOT BE PERMITTED UNDER ANY CIRCUMSTANCES.
- 8.4 STD & SPEC 3.05 SILT FENCE (SF): SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED SILT FENCE RESULTING FROM END RUNS AND UNDERCUTTING. SHOULD THE FABRIC ON A SILT FENCE DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER STILL BE NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH A DEPTH OF 6—INCHES. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.
- 8.5 STD & SPEC 3.07 STORM DRAIN INLET PROTECTION (IP) THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF THE DESIGN DEPTH OF THE TRAP. REMOVED SEDIMENT SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE. STRUCTURES SHALL BE REMOVED AND THE AREA STABILIZED WHEN THE REMAINING DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
- 8.6 STD & SPEC 3.09 TEMPORARY DIVERSION DIKE THE MEASURE SHALL BE INSPECTED AFTER EVERY STORM AND REPAIRS MADE TO THE DIKE, FLOW CHANNEL, OUTLET OR SEDIMENT TRAPPING FACILITY, AS NECESSARY. THE MEASURE SHALL ALSO BE INSPECTED ONCE EVERY TWO WEEKS, WHETHER A STORM EVENT HAS OCCURRED OR NOT, AND REPAIRS MADE IF NEEDED. DAMAGES CAUSED BY CONSTRUCTION TRAFFIC OR OTHER ACTIVITY MUST BE REPAIRED BEFORE THE END OF EACH WORKING DAY.
- 8.7 STD & SPEC 3.19 RIP-RAP (RR) SHOULD BE INSPECTED TO DETERMINE IF HIGH FLOWS HAVE CAUSED SCOUR BENEATH THE RIP-RAP OR FILTER FABRIC OR DISLODGED ANY OF THE STONE. IF REPAIRS ARE NEEDED, THEY SHALL BE ACCOMPLISHED IMMEDIATELY.
- 8.8 STD & SPEC 3.32 PERMANENT SEEDING (PS) IN GENERAL, A STAND OF VEGETATION CANNOT BE DETERMINED TO BE FULLY ESTABLISHED UNTIL IT HAS BEEN MAINTAINED FOR ONE FULL YEAR AFTER PLANTING. IRRIGATION — NEW SEEDING SHOULD BE SUPPLIED WITH ADEQUATE MOISTURE. SUPPLY WATER AS NEEDED, ESPECIALLY LATE IN THE SEASON, IN ABNORMALLY HOT OR DRY WEATHER, OR ON ADVERSE SITES. WATER APPLICATION RATES SHOULD BE CONTROLLED TO PREVENT EXCESSIVE RUNOFF. RE-SEEDING - INSPECT SEEDED AREAS FOR FAILURE AND MAKE NECESSARY REPAIRS AND RESEEDINGS WITHIN THE SAME SEASON, IF POSSIBLE. IF VEGETATIVE COVER IS INADEQUATE TO PREVENT RILL EROSION, OVER-SEED AND FERTILIZE IN ACCORDANCE WITH SOIL TEST RESULTS. IF A STAND HAS LESS THAN 40% COVER, RE-EVALUATE CHOICE OF PLANT MATERIALS AND QUANTITIES OF LIME AND FERTILIZER. THE SOIL MUST BE TESTED TO DETERMINE IF ACIDITY OR NUTRIENT IMBALANCES ARE RESPONSIBLE. RE-ESTABLISH THE STAND FOLLOWING SEEDBED PREPARATION AND SEEDING RECOMMENDATIONS. FERTILIZATION - COOL SEASON GRASSES SHOULD BEGIN TO BE FERTILIZED 90 DAYS AFTER PLANTING TO ENSURE PROPER STAND AND DENSITY. WARM SEASON FERTILIZATION SHOULD BEGIN AT 30 DAYS AFTER PLANTING. APPLY MAINTENANCE LEVELS OF FERTILIZER AS DETERMINED BY SOIL TEST. IN THE ABSENCE OF A SOIL TEST, FERTILIZATION SHOULD BE AS INDICATED ON THE SEED SCHEDULE.
- 8.9 STD & SPEC 3.36 SOIL STABILIZATION BLANKETS AND MATTING (B/M) SHOULD BE INSPECTED PERIODICALLY FOLLOWING INSTALLATION, PARTICULARLY AFTER RAINSTORMS TO CHECK FOR EROSION AND UNDERMINING. ANY DISLOCATION OR FAILURE SHOULD BE REPAIRED IMMEDIATELY. IF WASHOUTS OR BREAKAGE OCCURS, REINSTALL THE MATERIAL AFTER REPAIRING DAMAGE TO THE SLOPE OR DITCH. CONTINUE TO MONITOR THESE AREAS UNTIL WHICH TIME THEY BECOME PERMANENTLY STABILIZED; AT THAT TIME AN ANNUAL INSPECTION SHOULD BE ADEQUATE.
- 9 PERMANENT STABILIZATION / REMOVAL OF MEASURES:
- 9.1 AFTER THE INSTALLED EROSION AND SEDIMENTATION CONTROL DEVICES ARE FOUND TO BE FUNCTIONAL, THE CONTRACTOR SHALL IMMEDIATELY PROCEED WITH CLEARING, GRUBBING, AND PRELIMINARY GRADING OPERATIONS. PERMANENT OR TEMPORARY STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN (7) DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN FOURTEEN (14) DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE (1) YEAR.
- 9.2 FOLLOWING THE COMPLETION OF DEVELOPMENT AND STABILIZATION OF ALL AREAS, AND IT HAS BEEN DETERMINED THAT EROSION OR SEDIMENTATION IS NO LONGER OCCURRING ON THE SITE OR AT ITS BOUNDARIES, AND DRAINAGE FLOWS ARE FUNCTIONING ACCORDING TO DESIGN, THE CONTRACTOR MAY THEN BEGIN TO REMOVE THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES. THIS WORK SHALL BE DONE IN A CAREFUL, NEAT, AND ORGANIZED MANNER.
- 9.3 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 BY THE LOCAL PROGRAM AUTHORITY. TRAPPED SEDIMENT SHALL BE CAREFULLY REMOVED OR UNIFORMLY SPREAD OVER THE AREA AND THE DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.
- 10 STORMWATER MANAGEMENT
- 10.1 STORMWATER MANAGEMENT

  10.1 STORMWATER RUN-OFF FROM THE PROJECT SITE WILL BE COLLECTED BY NEW STORM DRAINAGE INLETS, AREA DRAINS, AND GRATE INLETS, OR OTHER DEVICES, CONVEYED BY PIPE OR CHANNEL, AND DISCHARGED IN A NON-EROSIVE MANNER IN TO THE EXISTING STORM DRAINAGE SYSTEM LOCATED ALONG THE PERIMETER OF THE SITE.
- Planning, Building, & Development END OF EROSION & SEDIMENT CONTROL NARRATIVE

(CITY PLAN NO.: CP19-0003)



GENERAL NOTES



PROJECT TITLE

ROANOKE FIRE-EMS
STATION #7

BID SET

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PROJECT ENGINEER	: WTA	
DRAWN BY	: ARB	
CHECKED BY	: WTA	
APPROVED BY	: WTA	
NO.	REVISION DESCRIPTION	DA

EROSION & SEDIMENT CONTROL NARRATIVE

COMM. NO. 17503.00 DATE FEBRUARY 20, 2019

DRAWING SHEET OF

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PLOT DATE 8/21/2018 4:28:55 PM SAVE DATE

PLOT SCALE

COMM NO.

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