

GENERAL NOTES

- 1. CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR AND EQUIPMENT REQUIRED AND SHALL PERFORM ALL WORK INCLUDING RESTORATION FOR THE COMPLETED INSTALLATION OF UTILITY SYSTEMS AND ALL OTHER IMPROVEMENTS SHOWN OR IMPLIED AS NECESSARY... 2. ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND SITE CONDITIONS OR ANY INCONSISTENCIES OR AMBIGUITIES IN DRAWINGS SHALL BE IMMEDIATELY REPORTED TO THE ENGINEER IN WRITING... 3. CONTRACTOR TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES AND NOTIFY THE ENGINEER OF ANY CONFLICTS WITH EXISTING AND PROPOSED UTILITIES... 4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION STAKEOUT. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE CONTRACT DOCUMENTS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO BEGINNING WORK... 5. CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS REQUIRED PRIOR TO STARTING WORK AND SHALL ADHERE TO THE CONDITIONS IMPOSED... 6. ANY UNUSUAL SUBSURFACE CONDITIONS ENCOUNTERED DURING THE COURSE OF THE WORK SHALL BE BROUGHT TO THE ATTENTION OF THE GEOTECHNICAL ENGINEER/OWNER... 7. ACCESS BY EMERGENCY VEHICLES MUST BE MAINTAINED AT ALL TIMES... 8. CONSTRUCTION MAY NOT BEGIN UNTIL THE PLAN IS APPROVED AND A PRE-CONSTRUCTION MEETING HAS BEEN HELD.

CONSTRUCTION NOTES

- 1. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE PRIOR TO PERFORMING ANY SIGNIFICANT EARTH DISTURBING ACTIVITIES. A PRECONSTRUCTION CONFERENCE SHALL BE HELD PRIOR TO THE ISSUANCE OF THE LAND DISTURBING PERMIT... 2. ALL MATERIALS USED FOR FILL OR BACKFILL SHALL NOT CONTAIN ANY DEBRIS, WASTE, OR FROZEN MATERIALS, AND THEY SHALL CONTAIN LESS THAN TWO (2) PERCENT VEGETATION-ORGANIC MATERIALS BY WEIGHT... 3. CHANGES OR REVISIONS TO THESE CONSTRUCTION PLANS SHALL NOT BE MADE WITHOUT APPROVAL BY THE OWNER, ENGINEER AND ALL APPLICABLE REGULATORY AGENCIES.

SEEDING SPECIFICATIONS

TEMPORARY CONTROL MEASURES:

TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED PRIOR TO ANY MAJOR SOIL DISTURBANCE IN ORDER TO PREVENT ACCELERATED EROSION AND TRANSPORTATION OF SEDIMENT DURING SITE DISTURBANCE. SILT FENCE WILL BE USED TO LIMIT SEDIMENTATION FROM SMALL UPHILL AREAS. ANY DISTURBED AREAS THAT WILL BE LEFT EXPOSED MORE THAN 7 DAYS, AND NOT SUBJECT TO CONSTRUCTION TRAFFIC WILL IMMEDIATELY RECEIVE TEMPORARY SEEDING AND MULCH. IF THE SEASON PREVENTS ESTABLISHMENT OF TEMPORARY COVER, THE DISTURBED AREAS WILL BE MULCHED WITH STRAW, OR EQUIVALENT MATERIAL AT A RATE OF 2.0 TONS PER ACRE. ALL CRITICAL AREAS (I.E. STEEP SLOPES AND ROADWAY EMBANKMENTS) WILL RECEIVE A TEMPORARY SEEDING IMMEDIATELY FOLLOWING THE ESTABLISHMENT OF FINAL GRADE IN COMBINATION WITH STRAW OR MULCH, OR A SUITABLE EQUIVALENT AT A RATE OF 2.0 TONS PER ACRE.

SEED, FALL - RYE, TWO 1/2 BUSHELS PER ACRE [SEPTEMBER 1 - NOVEMBER 15]
SPRING - OATS, TWO 1/2 BUSHELS PER ACRE [MARCH 1 - MAY 15]
MULCH: 2.0 TONS PER ACRE
MULCH BINDER: EMULSIFIED ASPHALT SS-1 AT THE RATE OF 150 GALLONS PER ACRE
FERTILIZER: 3 TON DOLOMITIC LIMESTONE/ACRE, 600 LBS., 10-10-10/ACRE

PERMANENT CONTROL MEASURES:

PERMANENT CONTROL MEASURES WILL BE INSTALLED IN THEIR PROPER SEQUENCE THROUGHOUT THE CONSTRUCTION PERIOD. THESE MEASURES WILL PREVENT EROSION ONCE CONSTRUCTION ACTIVITY IS COMPLETE. PERMANENT CONTROL MEASURES FOR THIS PROJECT INCLUDE THE ESTABLISHMENT OF PERMANENT COVER AND INSTALLATION OF RIP-RAP APRONS AT STORM PIPE OUTLETS. ALL AREAS SHALL BE PERMANENTLY SEEDED AND MULCHED WITHIN SEVEN DAYS OF REACHING FINAL GRADE. OTHERWISE TEMPORARY REQUIREMENTS SHALL BE MET. ADDITIONALLY, ALL AREAS SHALL BE SEEDED AND MULCHED WITHIN 7 DAYS IF THE AREA IS TO REMAIN UNWORKED FOR A PERIOD OF 14 DAYS OR MORE. DURING THE FIRST GROWING SEASON AFTER REACHING FINAL GRADE, A PERMANENT SEED MIXTURE WILL BE ADDED. ANY SOIL THAT WILL NOT PROVIDE A SUITABLE ENVIRONMENT TO SUPPORT ADEQUATE VEGETATIVE GROUND COVER, SHALL BE REMOVED OR TREATED IN SUCH A WAY THAT WILL PERMANENTLY ADJUST THE SOIL CONDITIONS AND RENDER IT SUITABLE FOR VEGETATIVE GROUND COVER. IF THE REMOVAL OR TREATMENT OF THE SOIL WILL NOT PROVIDE SUITABLE CONDITIONS, NON-VEGETATIVE MEANS OF PERMANENT GROUND STABILIZATION WILL HAVE TO BE EMPLOYED.

ALL ROADWAY SLOPES AND DISTURBED AREAS ARE TO BE SEEDED AND MULCHED GROUND IS TO BE DISCED TO A DEPTH OF SIX (6) INCHES AND SEEDED AS SOON AS POSSIBLE AFTER GROUND HAS BEEN DISTURBED. 10-20-10 FERTILIZER IS TO BE APPLIED AT THE RATE OF 1000 LBS PER ACRE AND LIME AT THREE TONS PER ACRE PRIOR TO DISCING. MULCHING IS TO BE 2.0 TONS OF STRAW WITH 100 GALLONS OF TAR MIXED PER ACRE. ALL WORK SHALL BE DONE IN ACCORDANCE WITH SOIL CONSERVATION SERVICE STANDARDS.

Table with 3 columns: MINIMUM CARE LAWN, GENERAL SLOPE, and GENERAL SLOPE (steeper than 3:1). Rows list various grass types and their seeding rates.

EROSION CONTROL NOTES:

- 1. UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS VR 625-02-00 EROSION AND SEDIMENT CONTROL REGULATIONS... 2. THE CONTRACTOR SHALL ARRANGE FOR A PRE-CONSTRUCTION CONFERENCE WITH THE APPROPRIATE EROSION AND SEDIMENT CONTROL DIRECTOR 48 HOURS PRIOR TO BEGINNING WORK... 3. THIS PLAN IS NOT COMPLETE WITHOUT THE APPROVED NARRATIVE... 4. IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED EVERY 5 DAYS AFTER EACH STORM EVENT PRODUCING 0.25 INCHES OR MORE OF RAINFALL... 5. ALL DISTURBED AREAS NOT PAVED OR BUILT UPON ARE TO BE FERTILIZED, SEEDED, AND MULCHED BY THE CONTRACTOR IN ACCORDANCE WITH THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK (LATEST EDITION)... 6. ALL DRAIN INLETS SHALL BE PROTECTED FROM SILTATION. INEFFECTIVE PROTECTION DEVICES SHALL BE IMMEDIATELY REPLACED AND THE INLET CLEANED... 7. GRADE AREAS ADJACENT TO BUILDING TO ACHIEVE DRAINAGE AWAY FROM THE STRUCTURE AND TO PREVENT PONDING IN SWALES... 8. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE... 9. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES... 10. 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 UPSLOPE LAND DISTURBANCE TAKES PLACE... 11. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION... 12. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA... 13. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT BY VEHICULAR TRACKING ONTO THE PAVED SURFACE... 14. 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... 15. THE LOUDOUN COUNTY INSPECTOR SHALL HAVE THE AUTHORITY TO ADD OR DELETE EROSION AND SEDIMENT CONTROLS AS NEEDED IN THE FIELD, AS SITE CONDITIONS WARRANT.

EROSION & SEDIMENT CONTROL NARRATIVE (ADDED AREA)

Project Description

This narrative describes the erosion and sediment control plan to be implemented for the placement of excess fill material taken from the original project area of REEST 2015-0003 which consisted of a personal recreation field on an existing 40+/- acre property consisting of 4 family lots totaling 48.33 acres. The original site is identified by MCRP 346-25-3362 (Lot #1), 346-26-0961 (Lot #2), 346-26-4277 (Lot #3), and 346-26-3403 (Lot #4). The site is located on the south side of Business Rte 7 east of the Town of Harrison and north of Gable Farm Lane.

The added project area now also includes MCRP 346-27-1722 (Lot #7), 346-27-4666 (Lot #6), 346-28-1310 (Lot #13), and 346-17-9152 (Lot #14), which total 48.86 acres. The total disturbance for the added area is 0.05 acres. Since the disturbance for the original project area was 19.20 acres, the estimated total disturbed area for the entire project is 25.36 acres.

Site Conditions

Vegetation Cover - The area to be disturbed is comprised of meadow grasses and a few isolated trees. Topography - The existing topography rolls generally from the southeast to the northwest towards an existing pond located near the entrance on Rte 7. The slopes range from 3% to 15% in the vicinity of the disturbance.

Drainage Patterns - The existing drainage pattern in the vicinity of the proposed land disturbance flows from the southeast to northwest towards an existing pond. There is also an upper pond that contains an outlet pipe that discharges into the same drainage area. All drainage eventually contributes to the North Fork of Goose Creek.

Soils - The predominant soil types in the construction area are as follows:

SOILS TABLE with columns: Symbol, Name, Hydrologic Class, General Dev. Class (Ag.), Permeability, Depth (ft), Texture, Hydric (Y/N). Lists various soil types like Mangle loam, Middleburg silt loam, etc.

Adjacent Areas

The adjacent properties downstream of the construction area are rural single family structures and properties used for agricultural purposes. With the proposed erosion and sediment control measures in place to prevent overbank discharge, there is little risk of damage due to erosion.

Off-site Areas

The proposed development of this adduced area will require fill material from the original REEST 2015-1003 site. However, no excavated material from the adduced area will be hauled from the subject site to any off-site locations.

Geology

The subject property is currently used for agriculture, and no rock outcroppings are evident. There is no excavation being proposed, so disturbances or blasting of rock is not anticipated.

Critical Areas

There are no critical areas such as steep slopes or other erosion concerns within the proposed limits of disturbance.

Erosion and Sediment Control Measures

Unless otherwise noted, the structural and vegetative practices shall be constructed and maintained according to the Minimum Standards of the Virginia Erosion and Sediment Control Law, Regulations and Certification Regulations and Specifications outlined in the latest edition of the Virginia Erosion and Sediment Control Handbook.

The following summary(s) are for quick reference only and do not preclude any requirements or standards listed in the Virginia Erosion and Sediment Control Handbook. Also, other measures not specifically listed here or on the construction plans may be required to keep the site in regulatory compliance during construction. The need for such items may not be evident until the beginning of construction. The Loudoun County Building and Development Department and the Erosion and Sediment Control Administrator will determine the need for additional erosion and sediment control measures.

STRUCTURAL PRACTICES

- 1. Temporary Construction Entrance: The construction entrance shall be constructed as shown on the Erosion and Sediment Control Plan. The entrance shall be maintained in a condition that prevents tracking of flow of mud into public rights-of-way... 2. Temporary Diversion: Temporary diversions shall be installed at locations shown on the erosion and sediment control plans in order to divert sediment laden runoff from undisturbed areas and to convey sediment laden runoff to sediment trapping facilities... 3. Outlet Protection: All storm pipe outlets shall be protected with a stone apron per specifications outlined in the latest edition of the Virginia Erosion and Sediment Control Handbook... 4. Silt Fence Barriers: Silt fence barriers shall be maintained at locations shown on the Erosion and Sediment Control Plan to filter sediment-laden runoff and decrease the velocity of silt flow... 5. Storm Drain Inlet Protection: All storm drain inlets shall be protected during construction to prevent sediment from entering, accumulating in and being transferred by a storm sewer and associated drainage system prior to permanent stabilization of a disturbed project area... 6. Rock Check Dams: Temporary rock check dams shall be installed at locations shown on the erosion and sediment control plans in order to reduce the velocity of concentrated stormwater flows and to trap sediment generated from adjacent areas or the catch basins by ponding of the stormwater runoff... 7. Level Spreader: A temporary level spreader (2) shall be placed at the locations shown on the Erosion and Sediment Control Plan to convert concentrated runoff to sheet flow and release it uniformly onto stabilized existing vegetation... 8. Dust Control: The contractor shall take measures to reduce the surface and air movement of dust, which may present health hazards, traffic safety problems or harm animal and plant life during land disturbing and construction activities.

GRASS ESTABLISHMENT

- 1. Topsoil Stockpile: Topsoil shall be stripped from areas to be graded and stockpiled for future use. The Loudoun County Erosion and Sediment Control Administrator shall approve stockpile locations. Stockpiles shall be temporarily seeded and protected with silt fence. When the topsoil is spread over the graded areas, it shall be placed in 2-4 inch compacted lifts... 2. Temporary Seeding: The topsoil stockpiles and all areas to be rough graded during the course of the project shall be immediately seeded with temporary vegetation upon completion of grading operations. The appropriate seed mixture will be dependent upon the time of year it is to be sown.

NOTE: Stabilization measures shall be applied to earthen structures such as dams, dikes, diversions, and sediment basin embankments immediately after construction of the said structure.

Temporary Seeding will be Applied as Follows:

Seed: Fall - Rye, two 1/2 bushels per acre [September 1 - November 15]
Spring - Oats, two 1/2 bushels per acre [March 1 - May 15]
Muld: 2.0 tons per acre
Muld Binder: Emulsified asphalt SS-1 at the rate of 150 gallons per acre
Fertilizer: 3 ton dolomitic limestone/acre, 600 lbs., 10-10-10/acre

Permanent Seeding

Permanent seeding shall be completed within seven (7) days from achieving final grade of the site. Follow seeding specifications provided on plan (see sheet C-02).

MANAGEMENT STRATEGIES

The following guidelines shall be utilized in the planning of construction:

- 1) The silt fence, construction entrance, diversions, rock check dams, and other measures intended to remove sediment shall be constructed as a first step in the land disturbing activity and shall be functional before up-slope land is disturbed. These measures shall also be stabilized with vegetation prior to up-slope land disturbance... 2) The contractor shall install inlet protection and outlet protection for all storm utilities immediately after installation of said structures to prevent sediment from collecting in the said structures and being deposited down stream... 3) Construction shall be sequenced so that grading operations can begin and end as quickly as possible... 4) Temporary seeding and other stabilization shall follow immediately after the site is stripped of topsoil if it is determined that final grading will not begin within 7 days... 5) The developer shall be responsible for the installation and maintenance of all Erosion and Sediment Control practices... 6) The topsoil stockpile location shall be immediately protected by silt fence on the down slope side.

NOTE:

The contractor shall ensure that at the end of each working day all erosion and sediment control measures are in place and functioning properly. This will be strictly enforced.

Permanent Stabilization

Permanent stabilization shall be applied to denuded areas immediately after final grade is achieved 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 undisturbed for more than 14 days. Permanent stabilization shall be applied to areas left dormant for more than one year. Seeding shall be conducted in accordance with the latest edition of the Virginia Erosion and Sediment Control Handbook. Permanently seeded areas shall be protected during establishment with straw mulch. Hydro-seeding also requires straw mulch protection.

Maintenance

In general, all erosion and sediment control measures shall be inspected every 5 days and after each storm event producing 0.25 inches or more of rainfall. The following items shall be checked in particular:

- 1) The silt fence, diversions, check dams, outlet protection, and temporary construction entrance shall be checked for undermining, stability, deterioration, and functionality... 2) All seeded areas shall be checked for adequate growth. If adequate growth is not evident, the area shall be re-seeded to prevent the soils from eroding... 3) All temporary erosion and sediment control measures shall be removed only when all contributing drainage areas are fully stabilized and when authorized by the Loudoun County Building and Development Department and the Erosion and Sediment Control Administrator... 4) Trapped sediment and the disturbed soil areas resulting from the removal of the temporary measures shall be permanently stabilized to prevent further erosion and sedimentation... 5) Long term maintenance of all storm water associated items is the sole responsibility of the owner... 6) Records of all inspections, compliance certifications, and occurrences of non-compliance shall be retained for a period of at least 3 years in the Storm Water Pollution Prevention Plan, which will be kept on site at all times during construction activities.

All erosion and sediment controls needing remediation shall be repaired immediately upon the discovery of damage or lack of functionality to ensure the proper functioning of the controls(s). In addition, monthly inspections shall be conducted on all erosion and sediment controls, these weekly and monthly inspections shall be conducted until the Notice of Termination (NOT) is filed.

Construction Sequence

- 1) Contractor shall schedule and hold an on-site preconstruction meeting... 2) Install construction entrance, silt fence, diversions, check dams, and inlet protection as indicated on the final ESD plan... 3) Clear existing vegetation and strip topsoil within limits of disturbance and stockpile as indicated provide silt fence protection around perimeter of topsoil stockpile... 4) Perform grading to elevations as indicated on plan... 5) Remove diversion dikes and temporary level spreaders #1 and #2, bring to surrounding grade, and stabilize... 6) Remove any and all remaining erosion and sediment control measures and stabilize all areas... 7) Call for final inspector.



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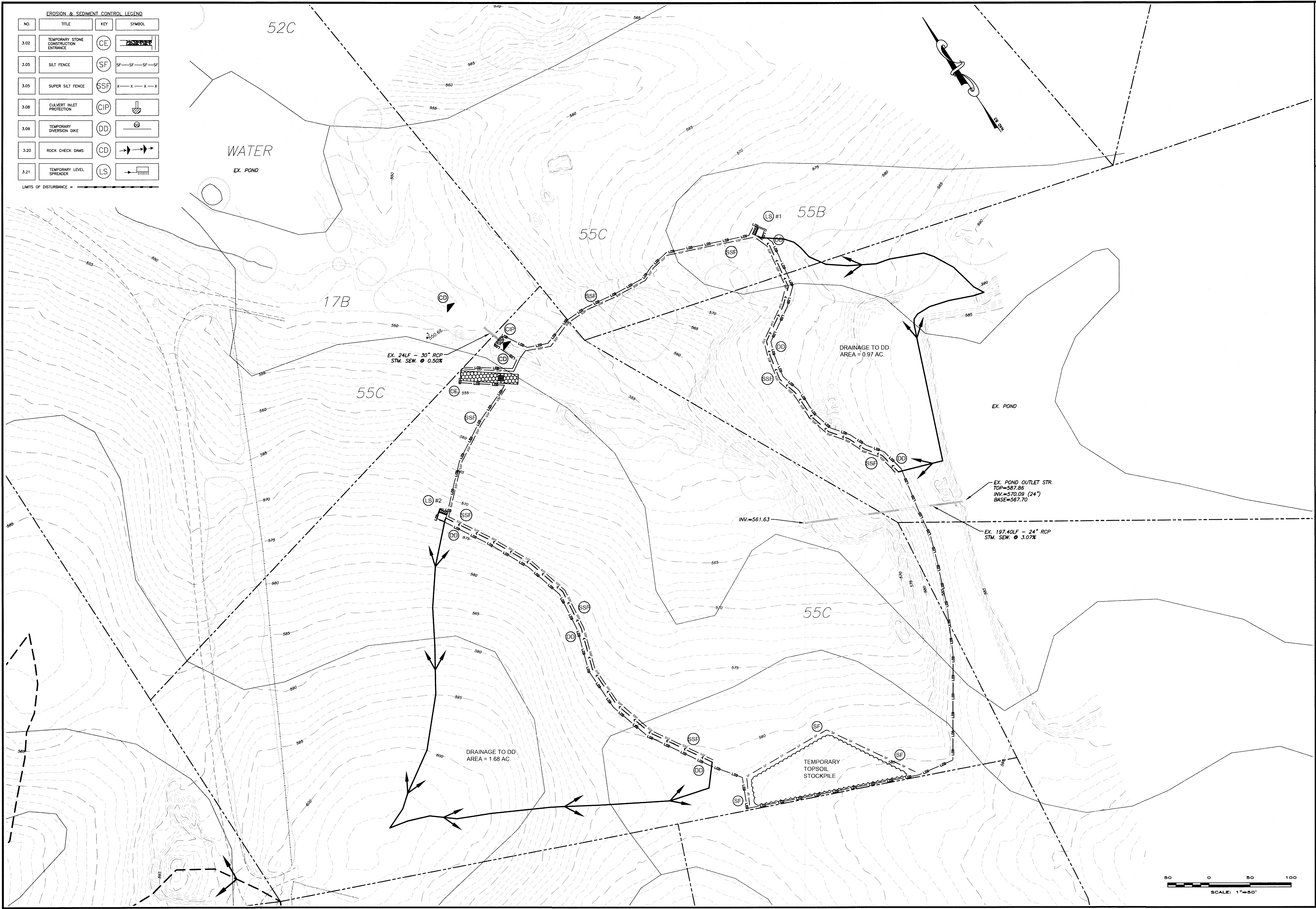
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Professional Engineer seal for Dennis D. Dunlap III, License No. 035609, dated 01-07-2020.

Project title: GABLE FARM PERSONAL RECREATIONAL FIELD LOUDOUN COUNTY, VIRGINIA. Includes SHEET NUMBER: C-02 and JOB NO.: 15-04.

EROSION & SEDIMENT CONTROL LEGEND			
NO.	TITLE	KEY	SYMBOL
3.02	TEMPORARY STONE CONSTRUCTION ENTRANCE	CE	
3.05	SILT FENCE	SF	
3.05	SUPER SILT FENCE	SSF	
3.08	CULVERT INLET PROTECTION	CIP	
3.09	TEMPORARY DIVERSION DIKE	DD	
3.20	ROCK CHECK DAMS	CD	
3.21	TEMPORARY LEVEL SPREADER	LS	

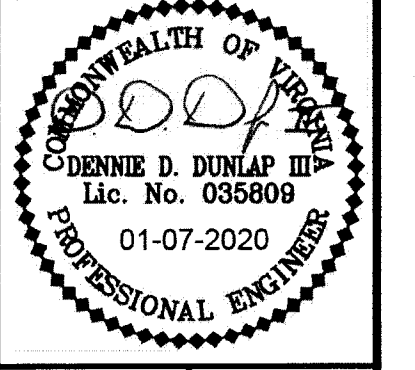
LIMITS OF DISTURBANCE - - - - -



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REV. #	DATE	DESCRIPTION	BY

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GABLE FARM PERSONAL RECREATIONAL FIELD
 LOUDOUN COUNTY, VIRGINIA

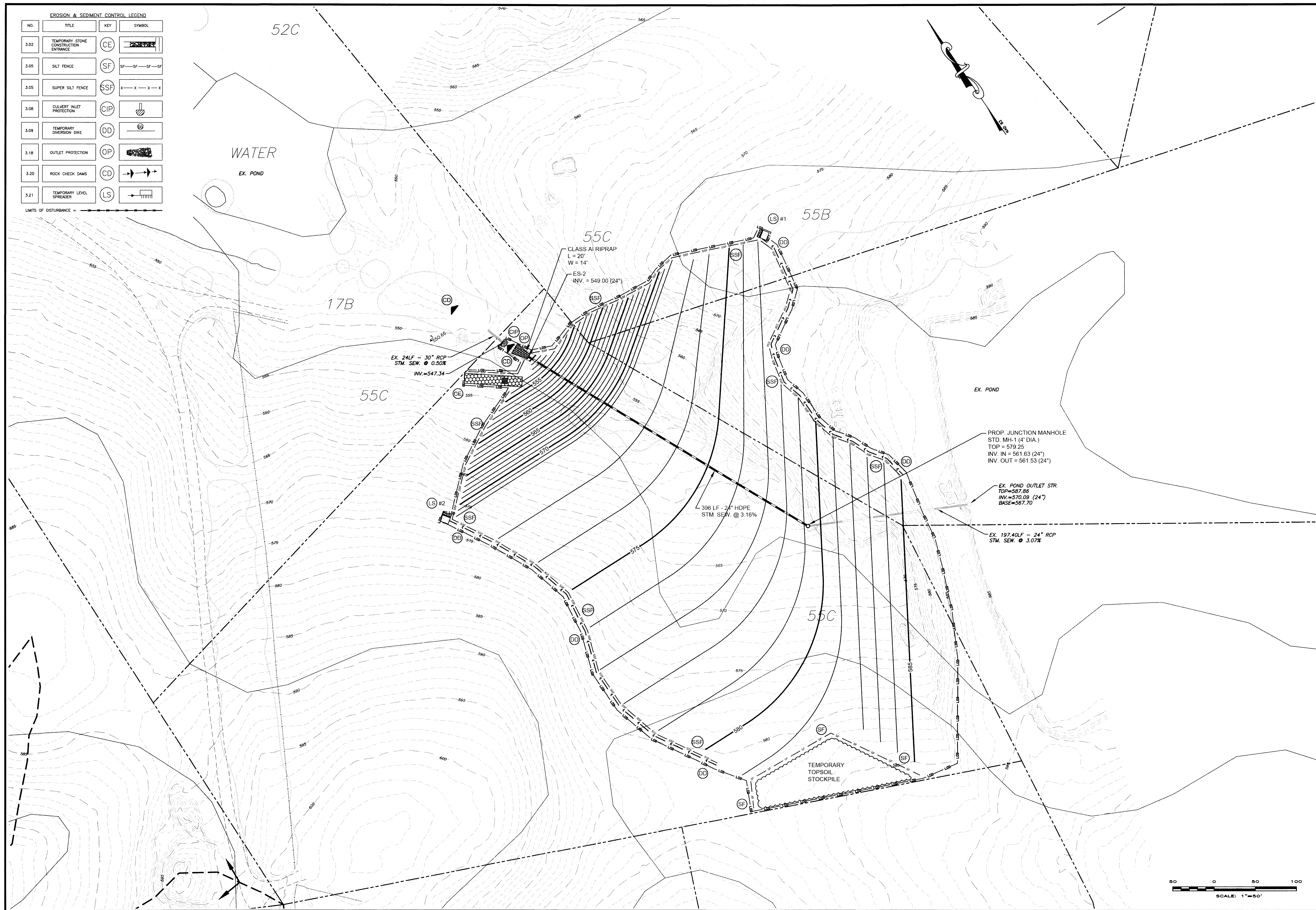
E&S PLAN (INITIAL)

SHEET NUMBER:
C-04
 JOB NO.: 15-04



EROSION & SEDIMENT CONTROL LEGEND			
NO.	TITLE	KEY	SYMBOL
3.02	TEMPORARY STONE CONSTRUCTION ENTRANCE	(CE)	
3.05	SILT FENCE	(SF)	
3.05	SUPER SILT FENCE	(SSF)	
3.06	CULVERT INLET PROTECTION	(CIP)	
3.09	TEMPORARY DIVERSION DIKE	(DD)	
3.18	OUTLET PROTECTION	(OP)	
3.20	ROCK CHECK DAMS	(CD)	
3.21	TEMPORARY LEVEL SPREADER	(LS)	

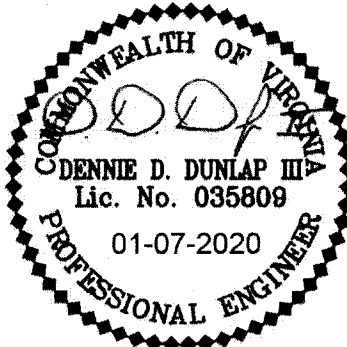
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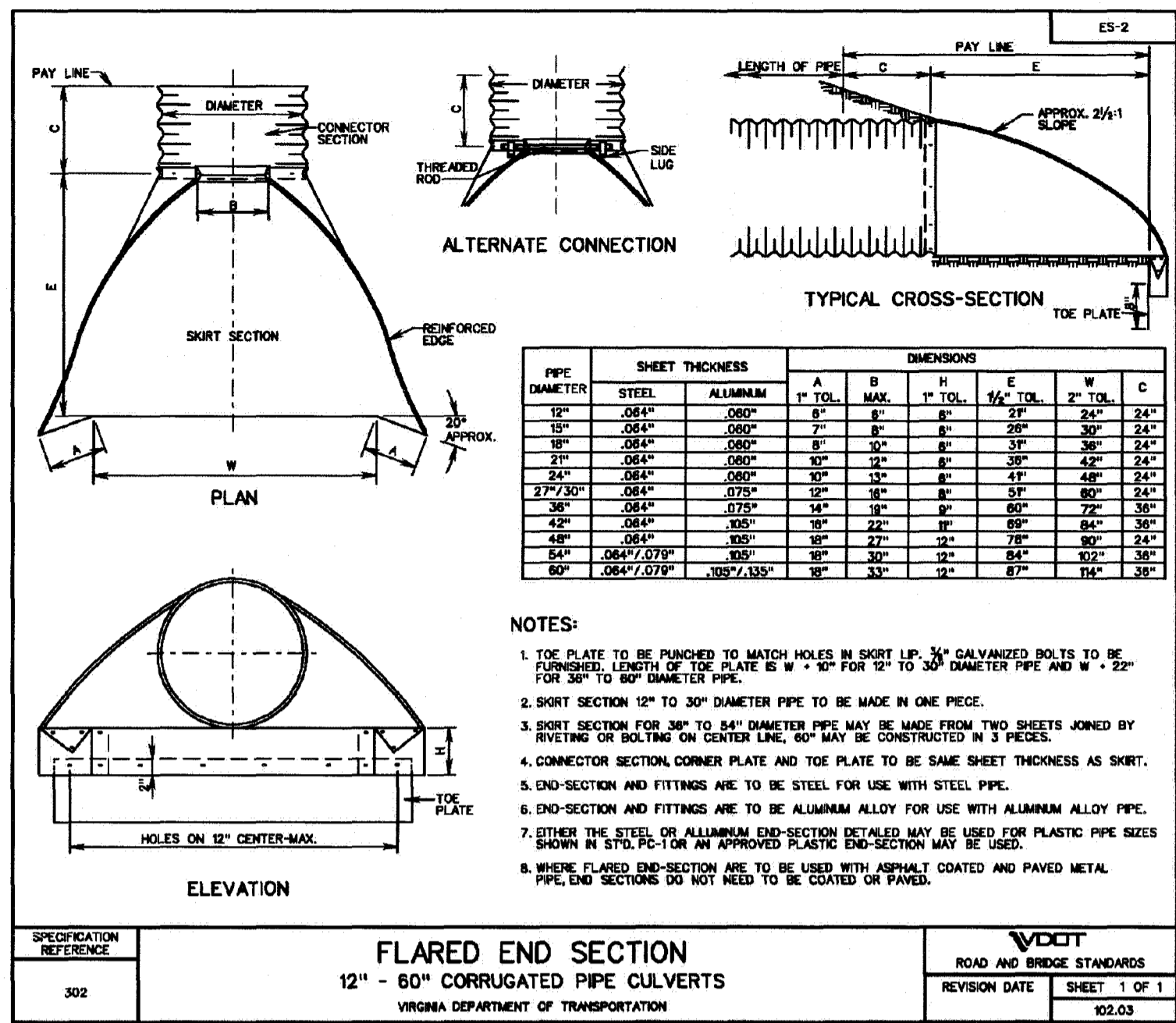
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GABLE FARM PERSONAL RECREATIONAL FIELD
 LOUDOUN COUNTY, VIRGINIA
E&S AND GRADING PLAN (FINAL)

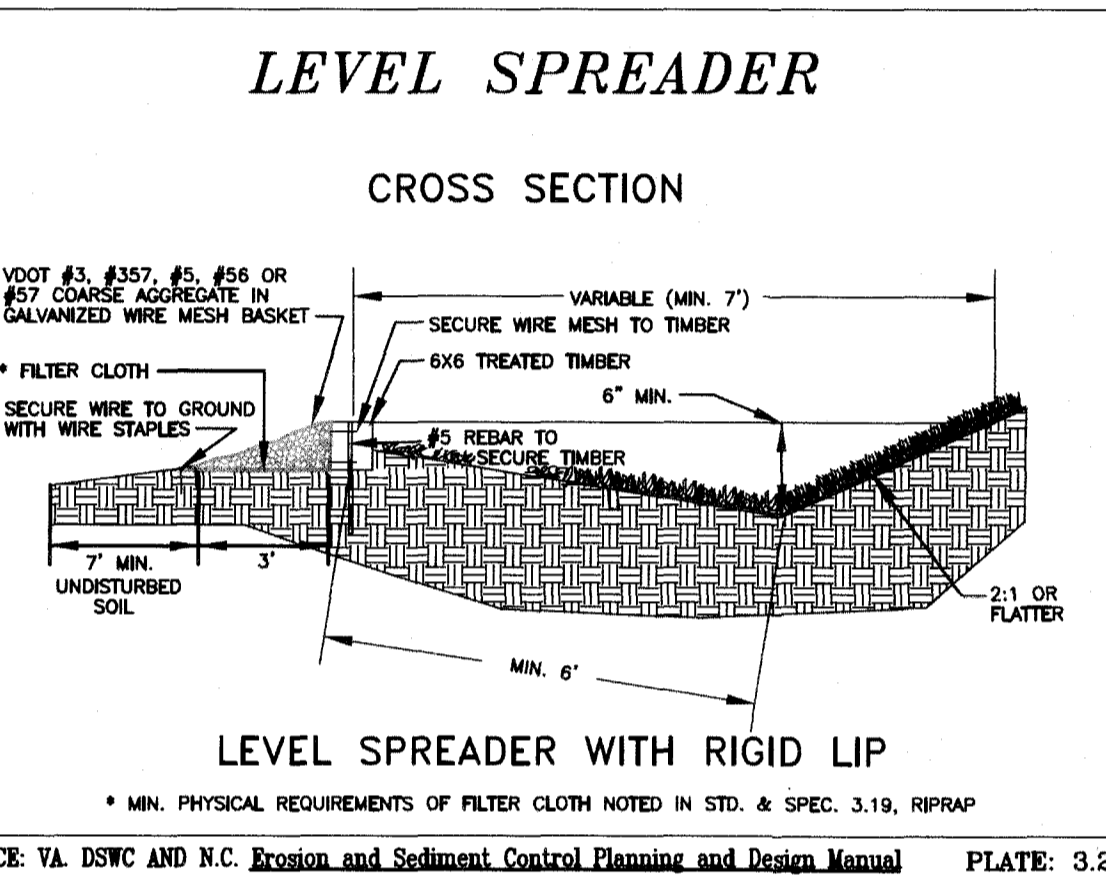
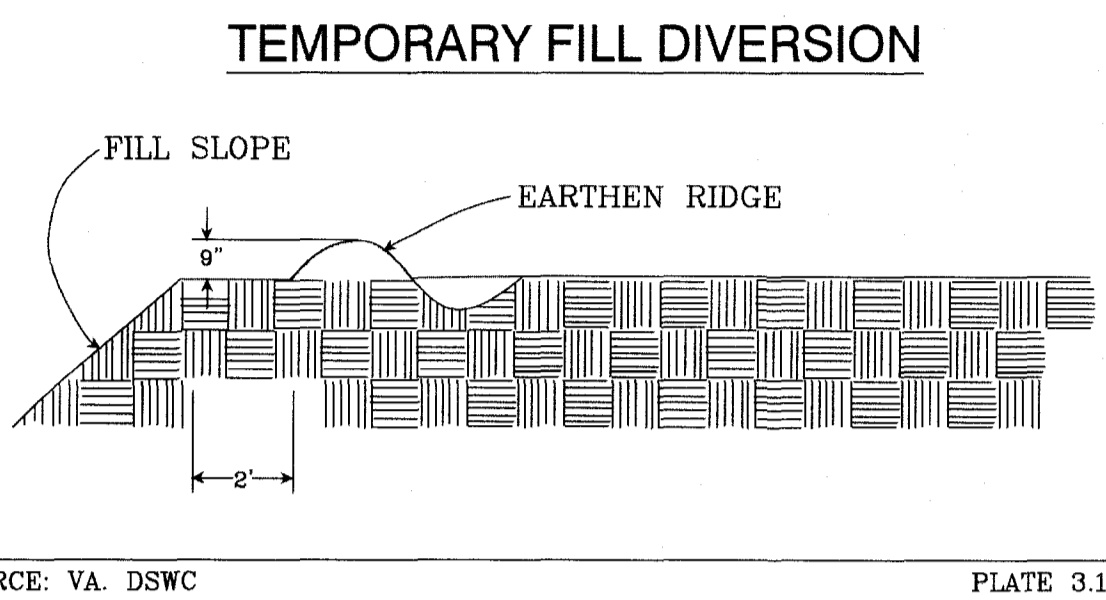
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C-05
 JOB NO.: 15-04



DUST CONTROL MEASURES

THE CONTRACTOR SHALL USE SPRAY-ON ADHESIVES IN ADDITION TO THE OTHER STABILIZATION METHODS AS SPECIFIED ON THESE PLANS. TO CONTROL DUST DURING CONSTRUCTION THE FOLLOWING SPECIFICATIONS SHALL BE USED WHEN FOUND NECESSARY: (CHOOSE 1 METHOD)

ADHESIVE EMULSION	WATER DILUTION	NOZZLE TYPE	APPLICATION RATE (GAL. / AC.)
ANIONIC ASPHALT	7:1	COARSE	1200
LATEX	12.5:1	FINE	235
RESIN-IN-WATER	4:1	FINE	300



TEMPORARY LEVEL SPREADER DESIGN TABLE

ID	Area (ac.)	Runoff Coeff.	Intensity (in/hr)	Q (cfs)	Depth (ft.)	Width of lower side slope (ft.)	Length (ft.)	Lip Type
Level Spreader #1	0.97	0.35	1.0	0.34	0.50	6	10	Rigid
Level Spreader #2	1.68	0.35	1.0	0.59	0.50	6	10	Rigid

