

202416048

**EROSION & SEDIMENT CONTROL NOTES**

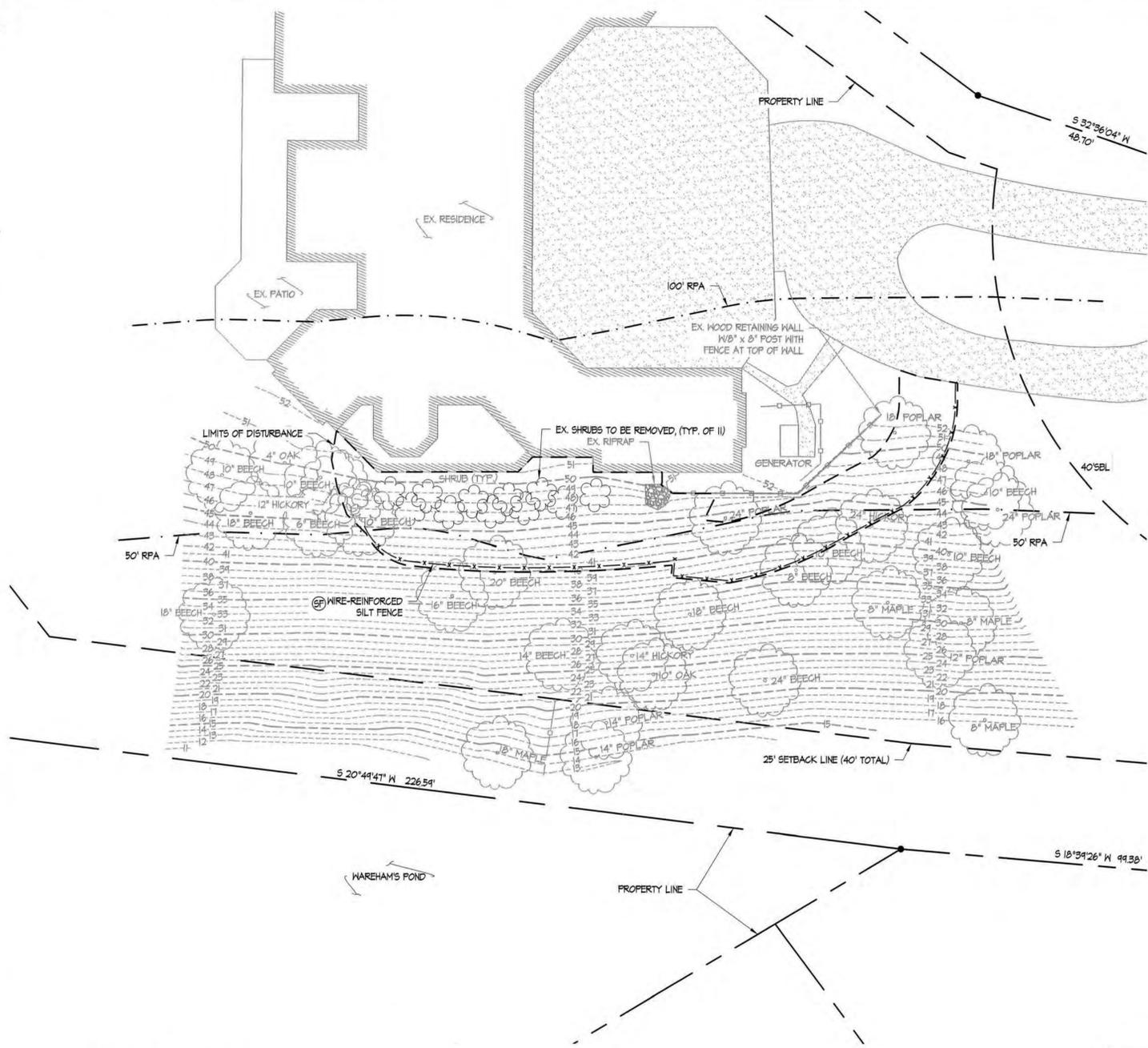
**GENERAL:**

- THE PROFESSIONAL ENGINEER WHOSE SEAL IS AFFIXED HEREON SHALL ACT AS THE 'RESPONSIBLE LAND DISTURBER' FOR THE PLAN REVIEW PHASE OF THIS PROJECT. ONCE THE PLANS ARE APPROVED, THE OWNER/GENERAL CONTRACTOR SHALL DESIGNATE THE 'RESPONSIBLE LAND DISTURBER' AND PROVIDE THE COUNTY WITH THE NAME AND CERTIFICATION NO. OF THE 'RESPONSIBLE LAND DISTURBER' FOR THE CONSTRUCTION PHASE OF THE PROJECT.
- THIS SITE IS LOCATED WITHIN THE CHESAPEAKE BAY WATERSHED. THE PROJECT AREA IS ALSO LOCATED WITHIN THE LIMITS OF THE CHESAPEAKE BAY PRESERVATION ACT RPA/RMA AREAS.
- ELEVATIONS SHOWN ARE APPROXIMATE, AND ARE BASED ON TOPOGRAPHIC SURVEY PROVIDED BY LANDTECH RESOURCES, INC. DATED 1/18/2024.
- THE EXISTENCE AND LOCATION (HORIZONTAL AND VERTICAL) OF EXISTING UTILITIES ARE NOT GUARANTEED AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR.
- THERE ARE NO ANTICIPATED OFFSITE LAND DISTURBING AREAS ASSOCIATED WITH THE DEVELOPMENT OF THIS SITE.
- A LAND DISTURBANCE PERMIT IS REQUIRED FOR THIS PROJECT AS THE LAND DISTURBANCE EXCEEDS 2500 SQUARE FEET.
- ALL OBJECTIONABLE AND DELETERIOUS MATERIAL IS TO BE REMOVED FROM THE SITE AND DISPOSED OF IN A STATE APPROVED FACILITY MEETING ALL REQUIREMENTS OF ALL LOCAL, STATE, AND FEDERAL REGULATIONS.
- DURING CONSTRUCTION OF THE PROJECT, SOIL STOCKPILES AND BORROW AREAS SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES. THE CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY PROTECTION AND PERMANENT STABILIZATION OF ALL SOIL STOCKPILES ON SITE AS WELL AS BORROW AREAS AND SOIL INTENTIONALLY TRANSPORTED FROM THE SITE.
- ALL AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING. SEEDING SHALL BE DONE WITH THE MINIMUM CARE LAWN BLEND ACCORDING TO TABLE 3.32-D OF STANDARD AND SPECIFICATION 3.32, 'PERMANENT SEEDING', OF THE VESCH. EROSION BLANKETS WILL BE INSTALLED OVER FILL SLOPES WHICH HAVE BEEN BROUGHT TO FINAL GRADE AND HAVE BEEN SEEDING TO PROTECT THE SLOPES FROM RILL AND GULLY EROSION TO ALLOW THE SEED TO GERMINATE PROPERLY. MULCH (STRAW OR FIBER) WILL BE USED ON RELATIVELY FLAT AREAS. IN ALL SEEDING OPERATIONS, SEED, FERTILIZER, AND LIME WILL BE APPLIED PRIOR TO MULCHING. SOIL STABILIZATION MATTING TO BE VESCH TYPICAL TREATMENT T-1 (JUTE MESH).

**JAMES CITY COUNTY STANDARD STORMWATER NOTES:**

THE FOLLOWING STANDARD COUNTY NOTES SHALL BECOME PART OF ANY APPROVED EROSION AND SEDIMENT CONTROL OR STORMWATER MANAGEMENT PLAN OF DEVELOPMENT PROJECT IN JAMES CITY COUNTY, VIRGINIA. THE COUNTY'S DIVISION OF STORMWATER AND RESOURCE PROTECTION (SRP) IS DESIGNATED BY CHAPTER 8 OF THE COUNTY CODE AS THE LOCAL VIRGINIA EROSION AND SEDIMENT CONTROL PROGRAM (VESP) AUTHORITY AND THE LOCAL VIRGINIA STORMWATER MANAGEMENT PROGRAM (VSMP) AUTHORITY.

- ALL THE PROVISIONS OF VIRGINIA EROSION AND SEDIMENT CONTROL (E45C) LAW AND REGULATIONS, THE VIRGINIA STORMWATER MANAGEMENT ACT AND REGULATIONS, THE VIRGINIA BEST MANAGEMENT PRACTICE (BMP) CLEARINGHOUSE WEBSITE, STATE E45C AND STORMWATER MANAGEMENT HANDBOOKS, AND ANY ASSOCIATED TECHNICAL BULLETINS AND GUIDANCE DOCUMENTS AS PUBLISHED BY THE STATE WATER CONTROL BOARD, THE VIRGINIA DEPARTMENT OF ENVIRONMENTAL QUALITY (DEQ), AND THE LOCAL VESCP AND VSMP AUTHORITY SHALL APPLY TO THE PROJECT.
- MINIMUM STANDARDS NUMBERS 1 THROUGH 14 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL REGULATIONS 9VAC25-840 SHALL APPLY TO THE PROJECT.
- THE OPERATOR SHALL BE RESPONSIBLE TO REGISTER FOR CONSTRUCTION GENERAL PERMIT (CGP) COVERAGE, AS APPLICABLE, IN ACCORDANCE WITH THE GENERAL VIRGINIA POLLUTANT DISCHARGE ELIMINATION SYSTEM (VPDES) PERMIT FOR DISCHARGE OF STORMWATER FROM CONSTRUCTION ACTIVITIES (VAR10) CHAPTER 820; THE VSMP REGULATIONS CHAPTER 810; AND IN ACCORDANCE WITH THE CURRENT REQUIREMENTS OF THE VSMP, THE STATE WATER CONTROL BOARD, THE VIRGINIA DEQ, CHAPTER 8 OF THE COUNTY CODE, AND THE LOCAL VESCP/VSP AUTHORITY.
- THE OPERATOR SHALL PROVIDE THE NAME OF AN INDIVIDUAL HOLDING A VALID RESPONSIBLE LAND DISTURBER (RLD) CERTIFICATE ISSUED BY DEQ SIGNIFYING WHO IS RESPONSIBLE FOR CARRYING OUT THE LAND-DISTURBING ACTIVITY IN ACCORDANCE WITH THE APPROVED E45C PLAN. THE RLD MUST BE DESIGNATED ON THE E45C PLAN OR PERMIT AS A PREREQUISITE FOR ENGAGING IN LAND DISTURBANCE. THE RLD IS REQUIRED TO ATTEND THE PRE-CONSTRUCTION MEETING FOR THE PROJECT.
- A PRE-CONSTRUCTION MEETING SHALL BE HELD ON-SITE AND INCLUDE REPRESENTATIVES FROM THE LOCAL VESCP/VSP AUTHORITY, THE OPERATOR, THE RLD, THE CONTRACTOR, ENGINEER, AND OTHER RESPONSIBLE AGENCIES, AS APPLICABLE, PRIOR TO AUTHORIZATION AND ISSUANCE OF A LOCAL LAND DISTURBING OR STORMWATER CONSTRUCTION PERMIT. THE OPERATOR IS REQUIRED TO COORDINATE SCHEDULING OF THE PRE-CONSTRUCTION MEETING WITH THE JAMES CITY COUNTY (JCC) SRP DIVISION.
- A POLLUTION PREVENTION PLAN (P2 PLAN), IF REQUIRED, SHALL BE DEVELOPED, IMPLEMENTED, AND UPDATED AS NECESSARY AND MUST DETAIL THE DESIGN, INSTALLATION, IMPLEMENTATION, AND MAINTENANCE OF EFFECTIVE POLLUTION PREVENTION MEASURES TO MINIMIZE THE DISCHARGE OF POLLUTANTS AS SPECIFIED IN 9VAC25-870-56. THIS PLAN SHALL BE AVAILABLE ON-SITE FOR REVIEW AT REASONABLE TIMES BY THE LOCAL VESCP/VSP AUTHORITY WHEN REQUESTED.
- OFF-SITE AREAS SHALL BE APPROVED BY THE LOCAL VESCP/VSP AUTHORITY PRIOR TO LAND DISTURBING ACTIVITY AT THE SEPARATE LOCATION. OFF-SITE AREAS SHALL BE INCLUDED AS PART OF THE PROPOSED LAND DISTURBING ACTIVITY OR COVERED BY A SEPARATE APPROVED E45C PLAN.
- TEMPORARY SOIL STOCKPILES SHALL COMPLY WITH THE PROVISIONS OF SECTION 24-46 OF THE COUNTY CODE.
- LOCAL VESCP/VSP AUTHORITY WRITTEN APPROVAL SHALL BE REQUIRED PRIOR TO DEVIATIONS FROM THE APPROVED EROSION AND SEDIMENT MEASURES, SEQUENCE OF CONSTRUCTION, OR STORMWATER MANAGEMENT PLAN. SIGNIFICANT DEVIATIONS FROM THE APPROVED PLAN MAY REQUIRE THE SUBMITTAL OF AN AMENDED PLAN FOR REVIEW AND APPROVAL.
- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. TEMPORARY SOIL STABILIZATION SHALL BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS THAT MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 14 DAYS. PERMANENT STABILIZATION SHALL BE APPLIED TO AREAS THAT ARE TO BE LEFT DORMANT FOR MORE THAN ONE YEAR. IRRIGATION, IF NECESSARY, SHALL COMPLY WITH ALL APPLICABLE SEASONAL WATER USE RESTRICTIONS OF THE JAMES CITY SERVICE AUTHORITY.
- FOR THE PURPOSES OF BOND REDUCTIONS OR RELEASES, FINAL STABILIZATION WILL BE DEFINED AS THE COMPLETION OF ALL SOIL DISTURBING ACTIVITIES AT THE SITE AND THE ESTABLISHMENT OF A PERMANENT VEGETATIVE COVER ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABILIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL A GROUND COVER IS ACHIEVED THAT IS UNIFORM (E.G. EVENLY DISTRIBUTED), MATURE ENOUGH TO SURVIVE, AND WILL INHIBIT EROSION.
- DESIGN AND CONSTRUCTION OF PRIVATE STORM DRAINAGE SYSTEMS, OUTSIDE OF ANY VIRGINIA DEPARTMENT OF TRANSPORTATION (VDOT) RIGHT-OF-WAY, SHALL BE PERFORMED IN ACCORDANCE WITH THE CURRENT VERSION OF THE COUNTY'S STORMWATER DRAINAGE CONVEYANCE SYSTEMS (NON-BMP RELATED) GENERAL DESIGN AND CONSTRUCTION GUIDELINES.
- RECORD DRAWINGS (AS-BUILTS) AND CONSTRUCTION CERTIFICATIONS ARE REQUIRED FOR ALL APPLICABLE STORMWATER FACILITIES, INCLUDING STORMWATER MANAGEMENT/BMP FACILITIES AND STORM DRAINAGE CONVEYANCE SYSTEMS. RECORD DRAWINGS AND CONSTRUCTION CERTIFICATIONS MUST MEET ESTABLISHED PROGRAM REQUIREMENTS OF THE COUNTY CODE AND THE VESCP/VSP AUTHORITY.
- ALL STORMWATER FACILITIES INCLUDING BMPs, STORM DRAINAGE PIPES, STORMWATER CONVEYANCES, INLETS, MANHOLES, OUTFALLS, AND ROADSIDE AND OTHER OPEN CHANNELS SHALL BE INSPECTED BY THE LOCAL VESCP/VSP AUTHORITY, THE OWNER, AND THE APPLICANT/OPERATOR/PERMITEE DESIGNATED GEOTECHNICAL ENGINEER FOR THE PROJECT IN ACCORDANCE WITH THE ESTABLISHED COUNTY STORMWATER FACILITY INSPECTION PROGRAM REQUIREMENTS.
- THE FINAL PROJECT CERTIFICATION PROCESS SHALL INCLUDE AN INTERNAL CLOSED-CIRCUIT TELEVISION CAMERA (CCTV) POST INSTALLATION INSPECTION PERFORMED BY THE OWNER IN ACCORDANCE WITH THE JCC CCTV ADMINISTRATIVE GUIDELINES DEVELOPED BY THE VSMP AUTHORITY.



**EXISTING SITE PLAN**

SCALE: 1/16" = 1'-0"

**STATISTICAL INFORMATION**

ZONE:	R4 RESIDENTIAL PLANNED COMMUNITY		
PARCEL ID NO.:	5190200009		
OWNER:	KRUGER, SCOTT TRUSTEE & JANET R TRUS		
ADDRESS:	136 JOHN WICKHAM WILLIAMSBURG, VA 23185400		
SITE DESCRIPTION:	L-1 WICKHAM'S GRANT		
PROJECT AREA:	3,035 SQ. FT (0.07 ACRES)		
IMPERVIOUS COVER FOR PROJECT AREA:			
	PRE-CONSTRUCTION	POST-CONSTRUCTION	NET CHANGE
GREEN AREA	3,035 SQ. FT (100%)	2,444.4 SQ. FT (81.5%)	-85.6 SQ. FT (2.5%)
IMPERVIOUS AREA	0 SQ. FT (0%)	85.6 SQ. FT (2.5%)	85.6 SQ. FT (2.5%)
TOTAL AREA	3,035 SQ. FT (100%)	3,035 SQ. FT (100%)	0 SQ. FT (0%)

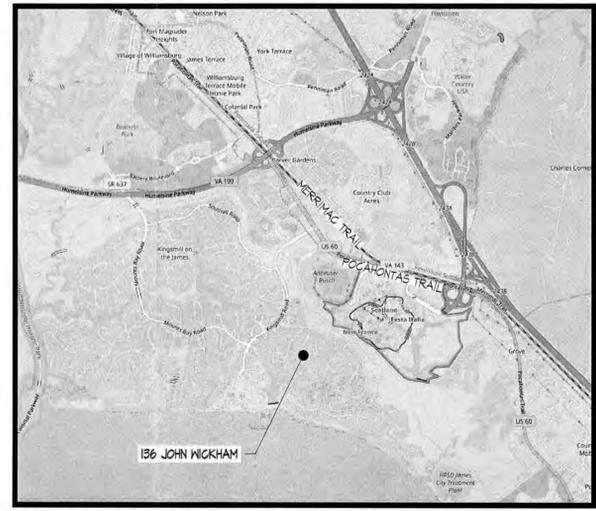
ABBREVIATIONS			
APPROX. CONC.	APPROXIMATE CONCRETE	EX-X"	RADIUS OF CURVE REINF.
CONT.	CONTINUOUS	RN	RETAINING WALL
DIA.	DIAMETER	STA.	STATION
ELEV.	ELEVATION	SIM.	SIMILAR
EQ.	EQUAL	TYP.	TYPICAL
EX.	EXISTING	T.O.M.	TOP OF MALL
HORIZ.	HORIZONTAL	W	WITH
MAX.	MAXIMUM	V.I.F.	VERIFY IN FIELD
MIN.	MINIMUM	VERT.	VERTICAL
NO.	NUMBER	W/F	WELDED WIRE FABRIC

**PROJECT DESCRIPTION**

THIS PROJECT INCLUDES THE CONSTRUCTION OF A NEW SEGMENTAL BLOCK RETAINING WALL ALONG THE LEFT SIDE OF THE RESIDENCE.

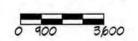
**SEQUENCE OF CONSTRUCTION**

- INSTALL SILT FENCE DOWN SLOPE OF ALL AREAS TO BE DISTURBED AND INSTALL TEMPORARY CONSTRUCTION ENTRANCE.
- REMOVE EXISTING SHRUBS AS INDICATED ON PLANS.
- CONSTRUCT SEGMENTAL BLOCK RETAINING WALLS & GEO-GRID REINFORCING. BACKFILL MATERIAL TO BE COMPACTED TO 95% STANDARD PROCTOR DENSITY IN MAXIMUM 8' LIFTS
- STABILIZE ALL RE-GRADED AND DENUDED EARTH IN ACCORDANCE WITH GENERAL NOTE NO. 9 ON SHEET S1.
- CONSTRUCT PEDESTRIAN GUARD ASSEMBLY/FENCING ALONG TOP OF THE WALL
- REMOVE SILT FENCE AND TEMPORARY CONSTRUCTION ENTRANCE UPON WRITTEN NOTIFICATION FROM JAMES CITY COUNTY INSPECTOR.



**VICINITY MAP**

SCALE: 1/4" = 400'



City of Williamsburg & County of James City  
Circuit Court: This PLAT was recorded on  
December 9, 2024  
at 11:27 (AM) PM, PB -- PG --  
Document # 202416048  
ELIZABETH E. O'CONNOR, CLERK  
*Elizabeth E. O'Connor*, Clerk  
  
3 Large Small Plat(s) Recorded  
herewith as # 202416048

Sheet No. **S1** of 3

EROSION & SEDIMENT CONTROL NOTES, VICINITY MAP, PROJECT DESCRIPTION, STATISTICAL INFORMATION, SEQUENCE OF CONSTRUCTION, & EXISTING SITE PLAN

RETAINING WALL FOR KRUGER RESIDENCE 136 JOHN WICKHAM JAMES CITY COUNTY VIRGINIA

Project #: VA23060DES | Drawn by: DAS | Reviewed by: MAM

Date: 6/17/24

Professional Engineer Seal: JAMES CITY COUNTY, VIRGINIA, J. WICKHAM, License No. 005676, Expires 4/3/24

The Structures Group, Inc.  
1200 Old Colony Lane • Williamsburg, VA 23185  
(757)220-0465 • Fax (757)220-1546  
www.thestructuresgroup.com

# GENERAL NOTES

- WORK PERFORMED SHALL COMPLY WITH THE FOLLOWING:
  - THE VIRGINIA UNIFORM STATEWIDE BUILDING CODE (VUBC), 2021 EDITION
  - THE INTERNATIONAL RESIDENTIAL CODE (IRC), 2021 EDITION AS AMENDED BY THE VUBC.
  - ALL APPLICABLE STATE AND LOCAL CODES, ORDINANCES AND REGULATIONS.
- DESIGN LOADS:
 

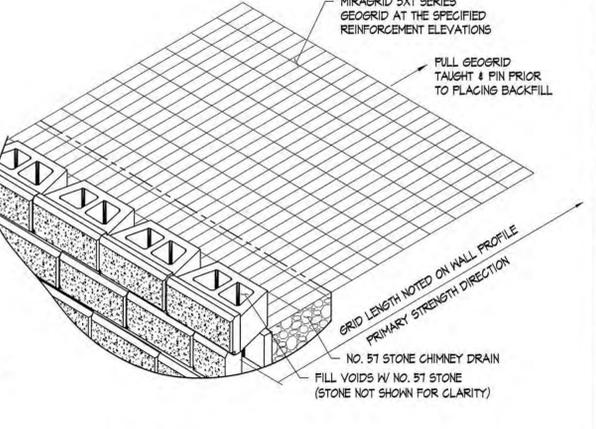
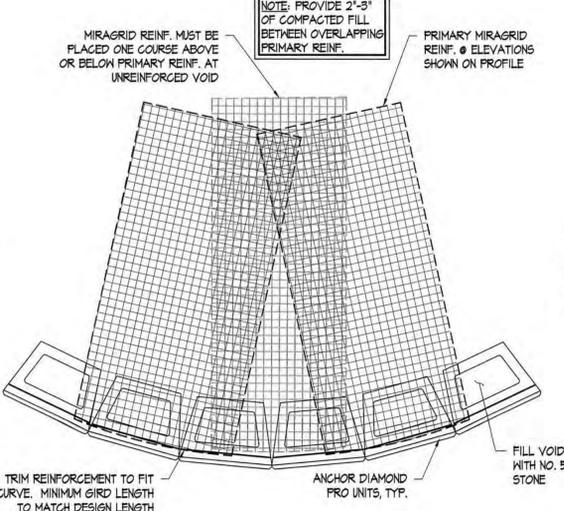
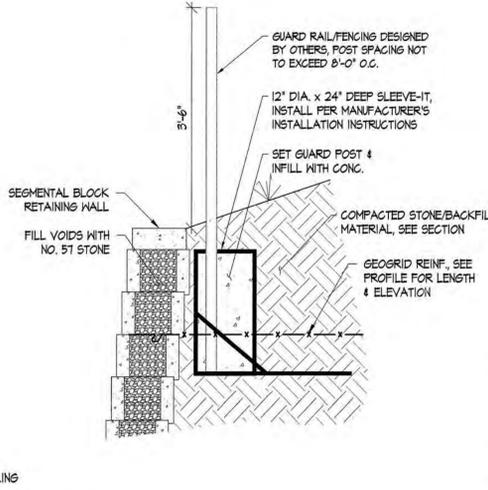
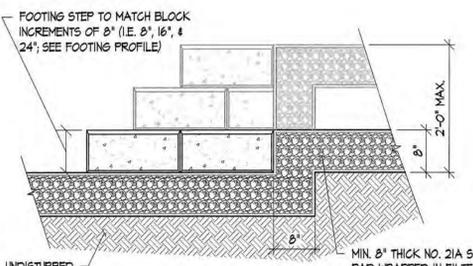
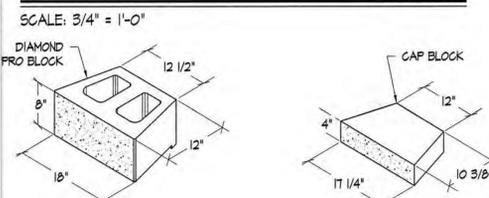
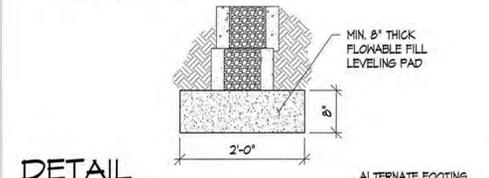
A. BUILDING CLASSIFICATION CATEGORY	II
B. GROUND SNOW P <sub>s</sub>	15 PSF
C. ULTIMATE WIND SPEED	115 MPH
EXPOSURE	B
D. SOIL UNIT WEIGHT	120 PCF
E. LIVE LOADS:	
LANDSCAPE & MAINTENANCE	UNIFORM 50 PSF
- SEISMIC DESIGN:
 

SEISMIC IMPORTANCE FACTOR	1.0
MAPPED SPECTRAL RESPONSE ACCELERATION S <sub>a</sub>	0.14
MAPPED SPECTRAL RESPONSE ACCELERATION S <sub>i</sub>	0.043
SITE SOIL CLASS	D
SPECTRAL COEFFICIENT, S <sub>ds</sub>	0.12
SPECTRAL COEFFICIENT, S <sub>d1</sub>	0.06
SEISMIC DESIGN CATEGORY	A
BASIC STRUCTURAL SYSTEM	SEGMENTAL BLOCK RETAINING WALL

- THE CONTRACTOR SHALL VERIFY DIMENSIONS IN FIELD PRIOR TO FABRICATION OF MEMBERS AND COMMENCING WORK.
- CONTRACTOR SHALL NOTIFY "MISS UTILITY OF VIRGINIA" PRIOR TO BEGINNING EXCAVATION FOR LOCATION OF UNDERGROUND UTILITIES. THE CONTRACTOR SHALL BEAR SOLE RESPONSIBILITY FOR COSTS ASSOCIATED WITH DAMAGE AND REPAIR OF ANY LINES MARKED BY MISS UTILITY OF VIRGINIA.
- PROVIDE TEMPORARY BRACING AS REQUIRED TO RESIST SOIL PRESSURE AND OTHER LOADS DURING CONSTRUCTION.
- THE CONTRACTOR SHALL PROTECT EXISTING STRUCTURES, EQUIPMENT, ADJACENT GROUNDS, SPRINKLERS, TREES AND PLANTS DURING ALL PHASES OF CONSTRUCTION. THE CONTRACTOR SHALL REPAIR AND/OR REPLACE, AT NO ADDITIONAL COSTS TO THE OWNER, ANY ITEMS DAMAGED DURING THE CONSTRUCTION.
- SPECIAL INSPECTIONS ARE REQUIRED FOR THE CONSTRUCTION OF RETAINING WALLS WITHIN JAMES CITY COUNTY.

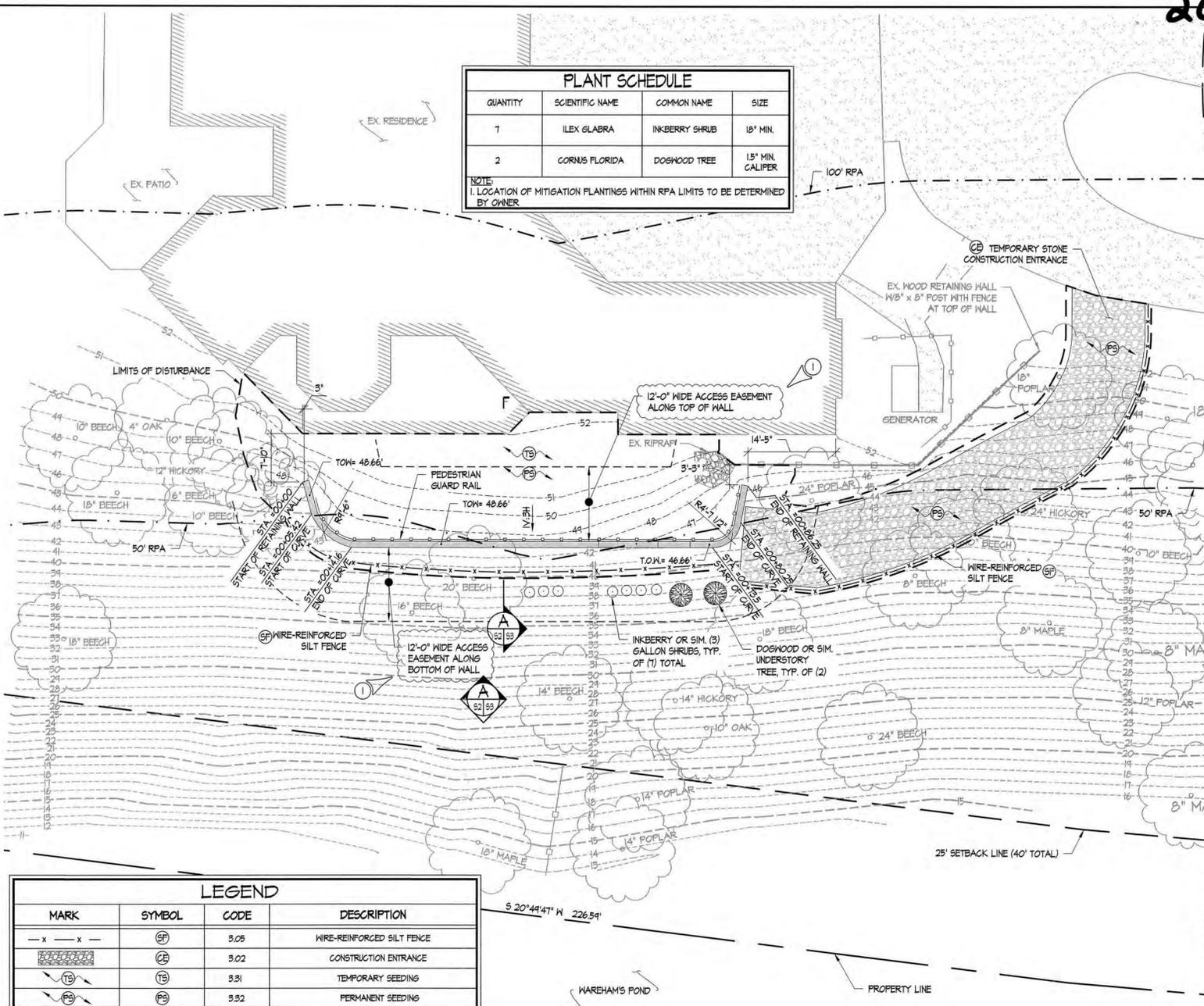
- LEVELING PAD:**
- LEVELING PAD FOR SEGMENTAL BLOCK RETAINING WALLS SHALL BE A MINIMUM OF 8" THICK COMPACTED NO. 21A CRUSHED STONE WRAPPED IN FILTER CLOTH. ALTERNATELY, 8" THICK 350 PSI FLOWABLE FILL MAY BE UTILIZED FOR THE LEVELING PAD.
  - ALL FLOWABLE FILL SHALL BE MIXED, PLACED AND TESTED IN ACCORDANCE WITH THE LATEST EDITION OF ACI 318.
  - ALL FLOWABLE FILL SHALL HAVE A SLUMP OF 1" ± 1" UNLESS NOTED OTHERWISE.
  - ALL FLOWABLE FILL TO BE POURED IN COLD WEATHER, AS DEFINED IN SECTION 11 OF ACI 306R, COLD WEATHER CONCRETING, SHALL FULLY COMPLY WITH ACI 306.1, STANDARD SPECIFICATIONS FOR COLD WEATHER CONCRETING, AND 306R.
  - ALL FLOWABLE FILL TO BE POURED IN HOT WEATHER, AS DEFINED IN SECTION 1.2 OF ACI 308R, HOT WEATHER CONCRETING, SHALL FULLY COMPLY WITH ACI 305.1, STANDARD SPECIFICATIONS FOR HOT WEATHER CONCRETING, AND ACI 305R.

- RETAINING WALL:**
- ELEVATIONS SHOWN ARE BASED ON TOPOGRAPHIC SURVEY PROVIDED BY LANDTECH RESOURCES, INC. ENGINEERING SURVEYING CONSULTANTS, DATED 1/18/2024.
  - ANY VARIATION IN LOCATION OR ELEVATION OF RETAINING WALL, ELEVATION IN THE GRADE EITHER ABOVE OR BELOW THE WALL, OR THE RECOMMENDED INSTALLATION DETAILS, REQUIRE REVIEW BY THE ENGINEER OF RECORD.
  - EXISTING SITE SOIL IS EMPORIA COMPLEX SOIL SERIES WITH LOW SHRINK-SWELL POTENTIAL BASED ON THE EGS MID-ATLANTIC LLC SOIL SURVEY, DATED ON 1/24/2024.
  - LEVELING PAD WAS DESIGNED TO BEAR ON UNDISTURBED SOIL BELOW THE FROST LINE AND A MINIMUM OF 3'-0" BELOW THE EXISTING GRADE UNLESS NOTED OTHERWISE WITH A MINIMUM SOIL BEARING PRESSURE OF 2,000 PSF UNLESS NOTED OTHERWISE.
  - BACKFILL MATERIAL MUST BE COMPACTED TO 95% STANDARD PROCTOR DENSITY IN MAXIMUM 8' LIFTS USING A VIBRATORY PLATE COMPACTOR. ALL BACKFILL SHALL BE FINE-GRAINED, NON-FROST SUSCEPTIBLE GRANULAR MATERIAL 5M OR BETTER UNLESS NOTED TO BE STONE. RETAINED BACKFILL MATERIAL SHALL HAVE A MINIMUM FRICTION ANGLE OF 25 DEGREES EXCEPT IN THE REINFORCED ZONE. BACKFILL MATERIAL TO BE USED IN THE REINFORCED ZONE SHALL BE 5M OR BETTER WITH MINIMUM FRICTION ANGLE OF 30 DEGREES.
  - CHIMNEY DRAIN ADJACENT TO MODULAR WALL UNITS AND MATERIAL USED TO FILL MODULAR WALL UNITS SHALL BE VIBRATORY PLATE COMPACTED NO. 51 STONE OR A WELL GRADED COMPACTIBLE NO. 21A STONE, 1/4" TO 1 1/2" DIAMETER WITH NO MORE THAN 10% PASSING THE #200 SIEVE.
  - PLACE A 4" DIAMETER PERFORATED PVC DRAIN PIPE WRAPPED IN FILTER CLOTH ADJACENT TO INSIDE FACE OF THE MODULAR CONCRETE UNIT RETAINING WALL. PROVIDE DRAINAGE TO DAYLIGHT.
  - ALL GEOSGRID REINFORCEMENT TO BE MIRAGRID 3XT SERIES MANUFACTURED BY TENGATE GEOSYNTHETICS. LENGTH OF GEOSGRID SHOWN ON DRAWINGS IS TAKEN FROM OUTSIDE FACE OF RETAINING WALL. GEOSGRID SHALL BE PULLED TAUGHT AND FINNED PRIOR TO INFILLING BACKFILL.
  - SEGMENTAL RETAINING WALL UNITS SHALL BE DIAMOND PRO MANUFACTURED BY ANCHOR WALL SYSTEMS, LLC.
  - CONTRACTOR SHALL FOLLOW INSTRUCTIONS PROVIDED BY BLOCK MANUFACTURER REGARDING THE CONSTRUCTION OF THE MODULAR CONCRETE UNIT WALLS. ANY INSTRUCTIONS THAT DIFFER FROM THOSE INDICATED ON THE CONSTRUCTION DRAWINGS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
  - PEDESTRIAN PROTECTION IS REQUIRED WHEN WALL HEIGHT EXCEEDS 50" ABOVE FINISH GRADE. GUARD RAILING, FENCING, AND/OR THICK LANDSCAPE SHRUBBERY SHALL BE PROVIDED WHERE WALL HEIGHT EXCEEDS 50" ABOVE FINISH GRADE.
  - RETAINING WALL MINIMUM DESIGN SAFETY FACTORS:
    - OVERTURNING - 2.0
    - SLIDING - 1.5
    - GLOBAL STABILITY - 1.3



QUANTITY	SCIENTIFIC NAME	COMMON NAME	SIZE
1	ILEX GLABRA	INKBERRY SHRUB	18" MIN.
2	CORNUS FLORIDA	DOGWOOD TREE	15" MIN. CALIPER

NOTE:  
1. LOCATION OF MITIGATION PLANTINGS WITHIN RPA LIMITS TO BE DETERMINED BY OWNER



MARK	SYMBOL	CODE	DESCRIPTION
- x - x -	SP	3.05	WIRE-REINFORCED SILT FENCE
[Hatched Box]	CE	3.02	CONSTRUCTION ENTRANCE
[Dashed Circle]	TS	3.31	TEMPORARY SEEDING
[Solid Circle]	PS	3.32	PERMANENT SEEDING

## RETAINING WALL PLAN

SCALE: 3/32" = 1'-0"

City of Williamsburg & County of James City  
Circuit Court: This PLAT was recorded on  
**December 4, 2024**  
at 11:27 AM in PB PG  
Document # **2024110048**  
ELIZABETH E. O'CONNOR, CLERK  
Elizabeth E. O'Connor, Clerk

3 Large Small Plat(s) Recorded  
herewith as # **202416048**

Sheet **52** of 3

GENERAL NOTES, RETAINING WALL PLAN & TYPICAL DETAILS

RETAINING WALL FOR  
**KRUGER RESIDENCE**  
136 JOHN WICKHAM  
JAMES CITY COUNTY  
VIRGINIA

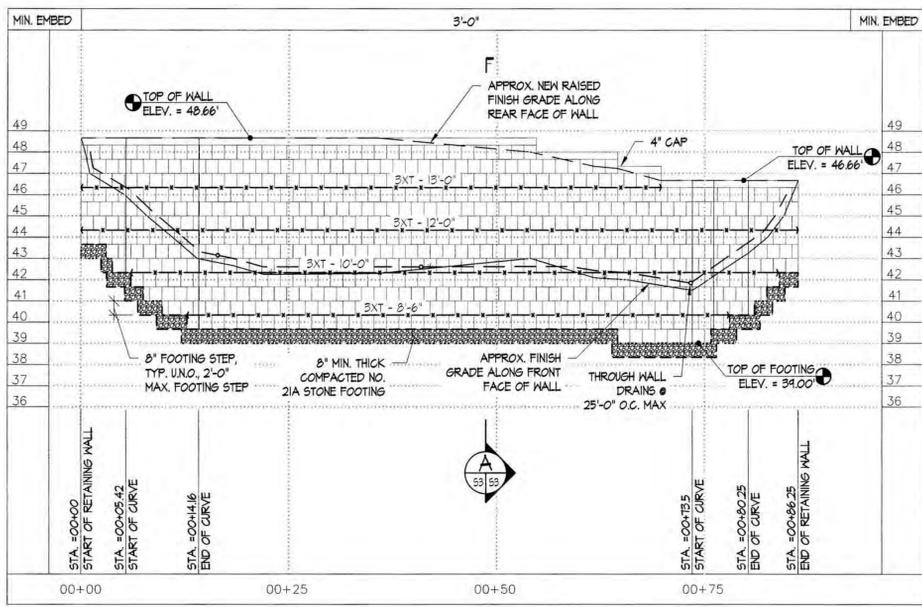
Project #: VA23060PES  
Date: 6/3/24  
Reviewed by: MAM  
Drawn by: DAS

The Structures Group, Inc.  
1200 Old Colony Lane • Williamsburg, VA 23185  
(757)220-0485 • Fax: (757)220-1546  
www.thestructuresgroup.com

Professional Seal: JOSEPH W. KRALLINGER, License No. 68376, State of Virginia, Professional Engineer, dated 4/3/24.

JCC Comments: 11/6/24  
Revisions: 1

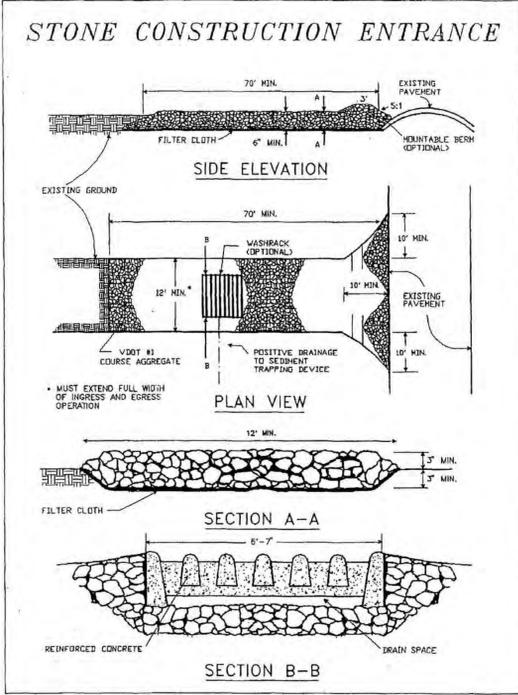
202416048



**WALL PROFILE**

HORIZ. SCALE: 1"=10'-0", VERT. SCALE: 1"=4'-0"

1992 3.02

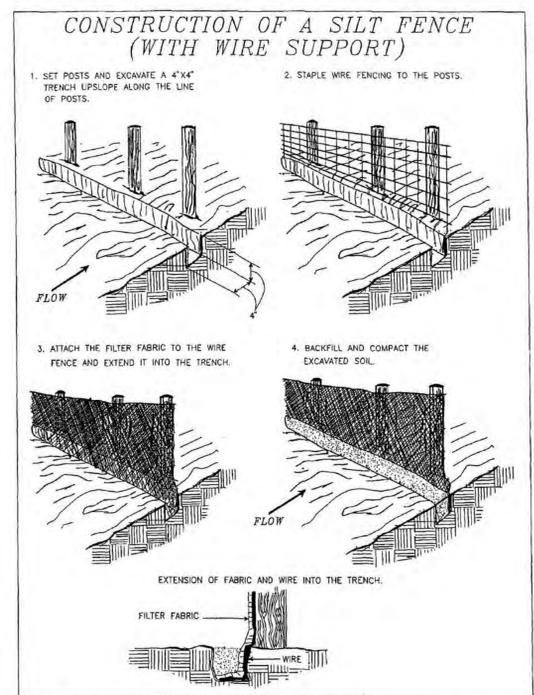


Source: Adapted from 1983 Maryland Standards for Soil Erosion and Sediment Control, and Va. DSWC Plate 3.02-1

III - 9

**DETAIL** CONSTRUCTION ENTRANCE  
SCALE: NTS VESCH 3.02

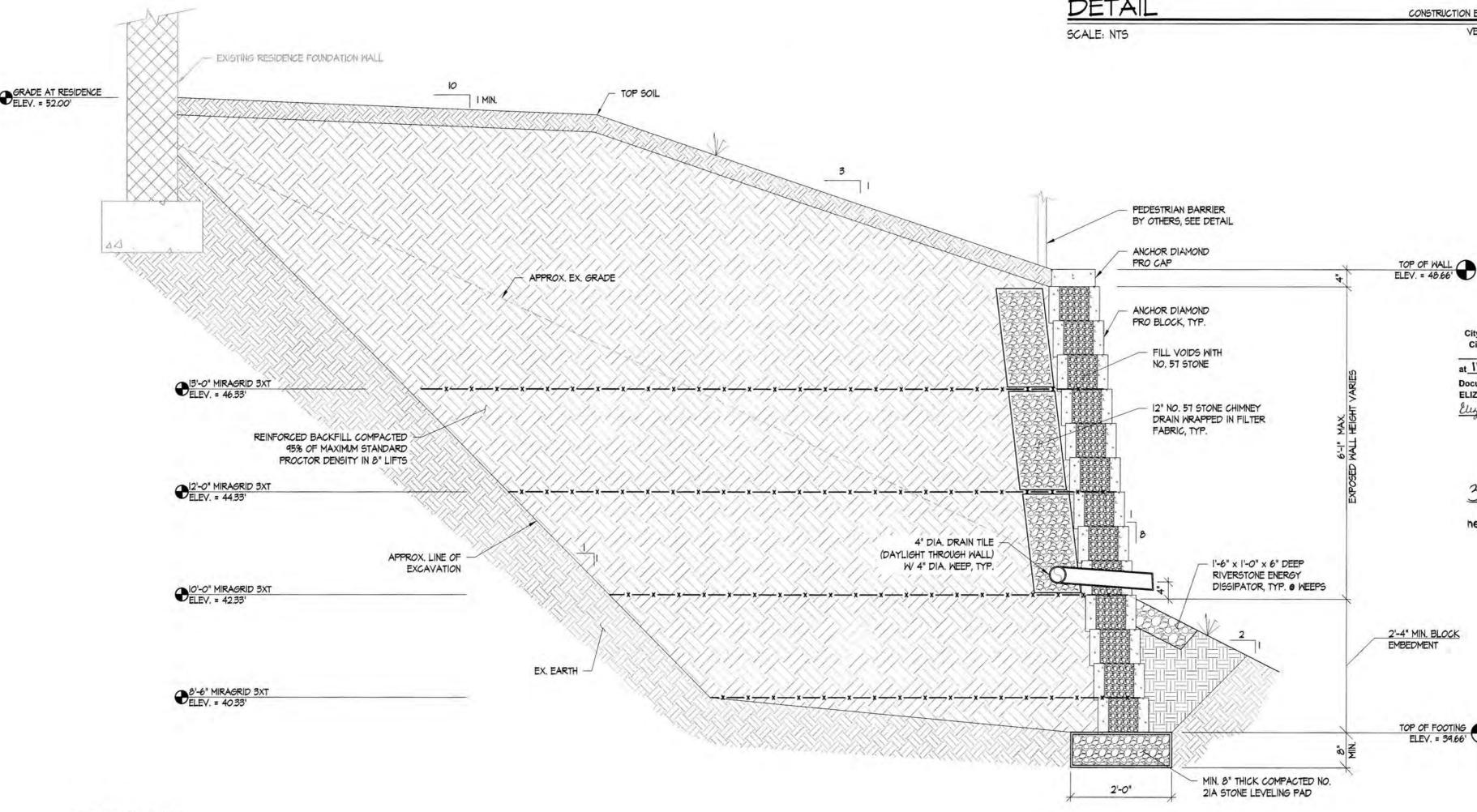
1992 3.05



Source: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, Sherwood and Wyant Plate 3.05-1

III - 24

**DETAIL** SILT FENCE W/ WIRE SUPPORT  
SCALE: NTS VESCH 3.05



**SECTION**

SCALE: 3/4" = 1'-0"

1992 3.32

TABLE 3.32-D  
SITE SPECIFIC SEEDING MIXTURES FOR COASTAL PLAIN AREA

Minimum Care Lawn	Total Lbs. Per Acre
- Commercial or Residential	
- Kentucky 31 or Turf-Type Tall Fescue	175-200 lbs.
or	
- Common Bermudagrass **	75 lbs.
<b>High-Maintenance Lawn</b>	
- Kentucky 31 or Turf-Type Tall Fescue	200-250 lbs.
or	
- Hybrid Bermudagrass (seed) **	40 lbs. (unhulled)
or	
- Hybrid Bermudagrass (by other vegetative establishment method, see Std. & Spec. 3.34)	30 lbs. (hulled)
<b>General Slope (3:1 or less)</b>	
- Kentucky 31 Fescue	128 lbs.
- Red Top Grass	2 lbs.
- Seasonal Nurse Crop *	20 lbs.
150 lbs.	
<b>Low Maintenance Slope (Steeper than 3:1)</b>	
- Kentucky 31 Tall Fescue	93-108 lbs.
- Common Bermudagrass **	0-15 lbs.
- Red Top Grass	2 lbs.
- Seasonal Nurse Crop *	20 lbs.
- Sericea Lespedeza **	150 lbs.

\* Use seasonal nurse crop in accordance with seeding dates as stated below:  
 February, March through April ..... Annual Rye  
 May 1st through August ..... Foxtail Millet  
 September, October through November 15th ..... Annual Rye  
 November 16th through January ..... Winter Rye

\*\* May through October, use hulled seed. All other seeding periods, use unhulled seed. Weeping Lovegrass may be added to any slope or low-maintenance mix during warmer seeding periods; add 10-20 lbs./acre in mixes.

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**DETAIL** TEMPORARY/PERMANENT SEEDING  
SCALE: NTS VESCH 3.32

Reviewed by: MAM  
 Drawn by: DAS  
 Project #: VA25060DES  
 Date: 6/19/24  
 Professional Seal: JOSEPH W. KRUGER, Inc. No. 10000, 6/3/24  
 The Structures Group, Inc.  
 1200 Old Colony Lane • Williamsburg, VA 23185  
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Revisions

RETAINING WALL FOR RESIDENCE KRUGER RESIDENCE 136 JOHN WICKHAM VIRGINIA JAMES CITY COUNTY

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