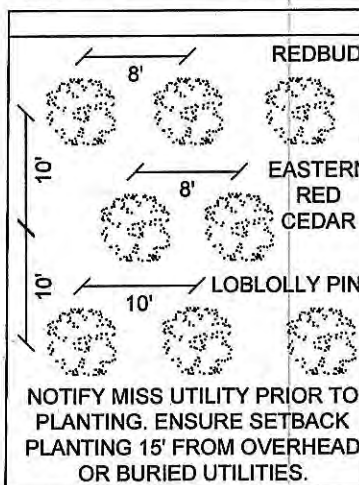


TREE SCREENING DETAIL

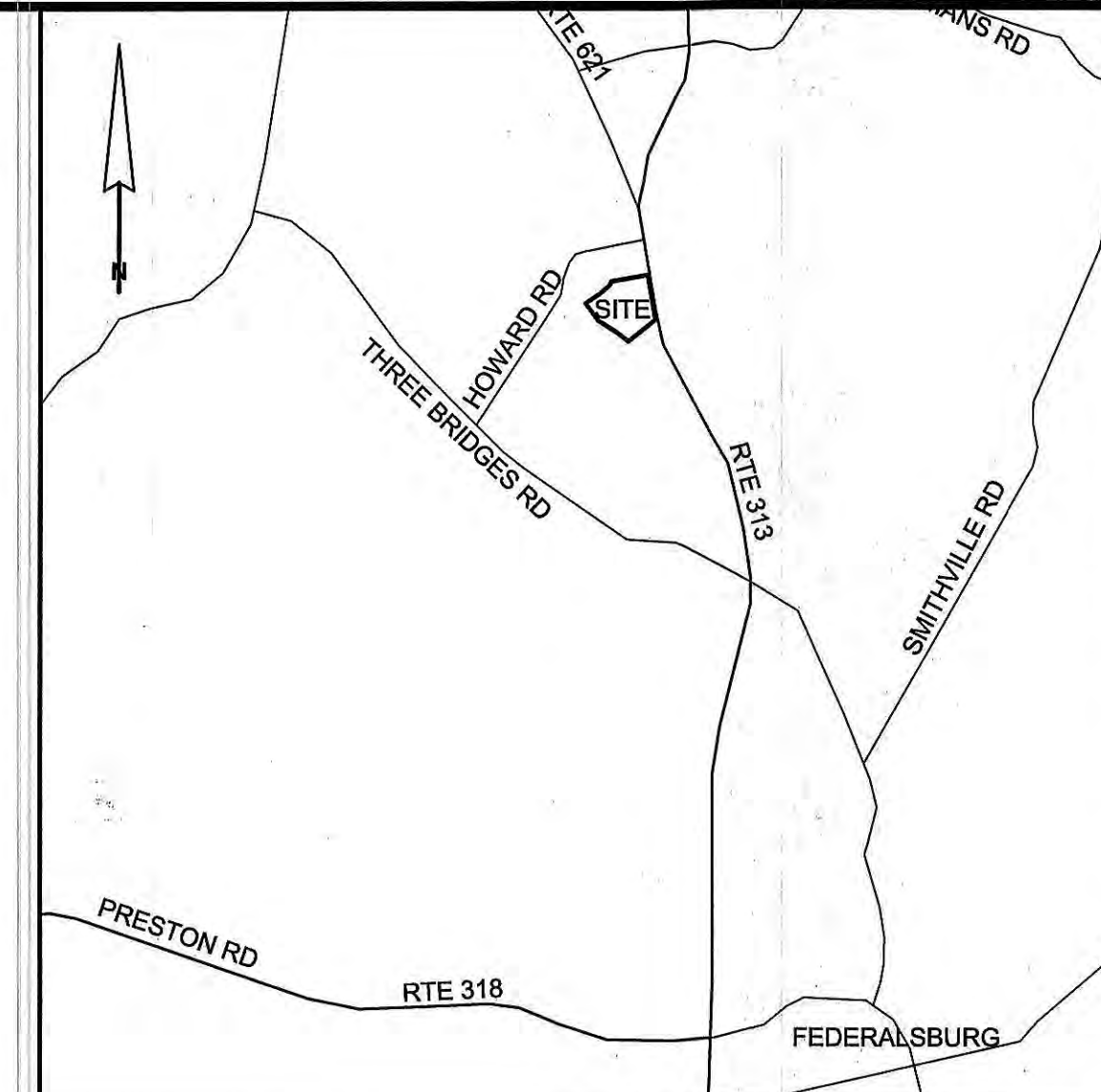
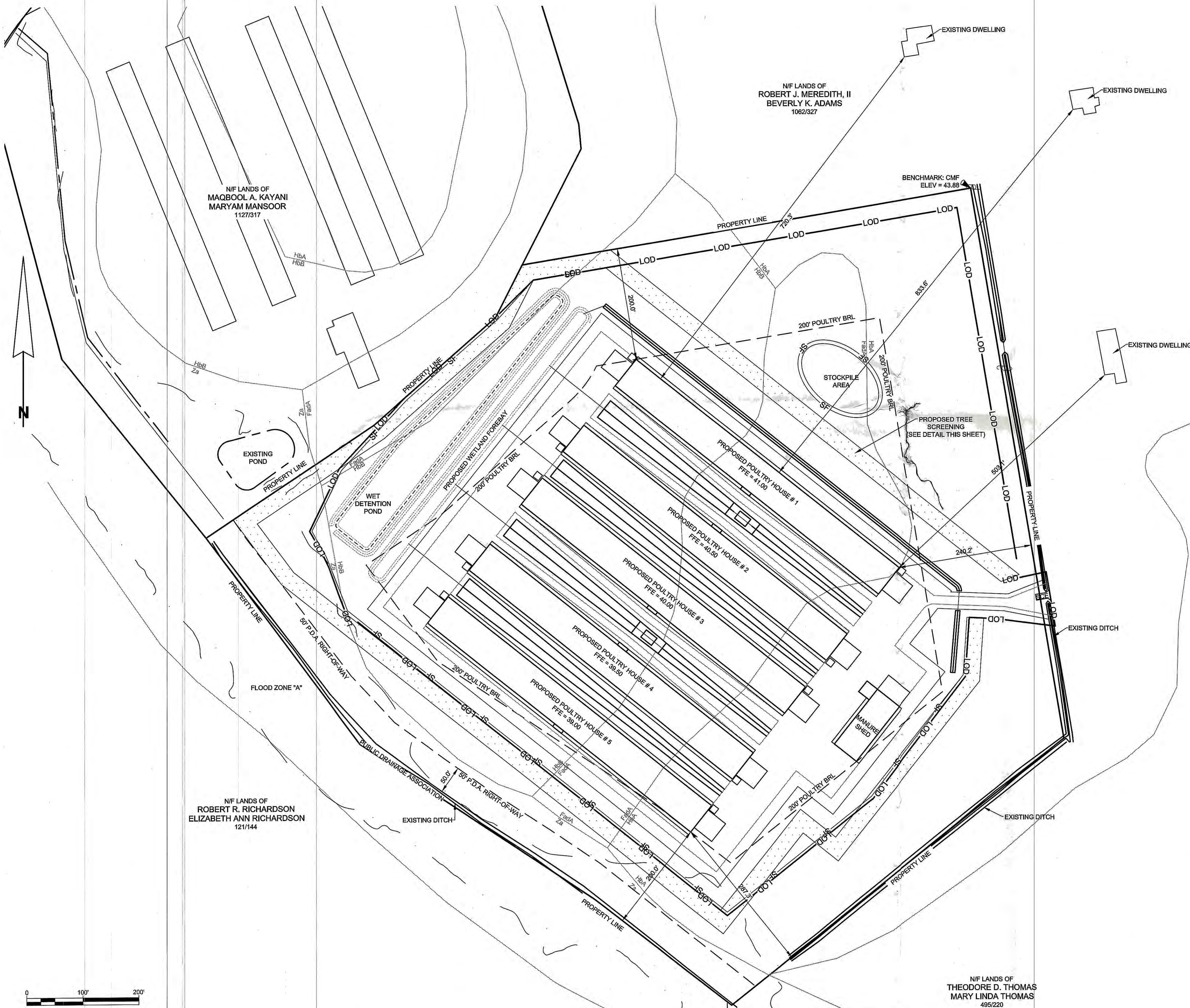


NOTES:

- OWNER: KAYANI FARMS LLC
- SITE ADDRESS: RTE 313, FEDERALSBURG HIGHWAY
FEDERALSBURG, MD
- TAX MAP 55, GRID 7, PARCEL 143, LOT 1
- DEED REF: 1223/158
- PLAT REF: 7/53
- AREA OF SITE: 31.71 ACRES (PER RECORD INFORMATION)
- AREA OF DISTURBANCE: 23.83 ACRES ± (1,037,891 SQ. FT. ±)
- THE PROPERTY LINE SHOWN HEREON IS PURSUANT TO RECORD INFORMATION.
- AN ENVIRONMENTAL SCIENTIST WITH RAUCH INC. HAS VISITED THE SITE AND DETERMINED THAT THERE ARE NO WETLANDS ON THE PARCEL OF LAND WHERE AGRICULTURAL DEVELOPMENT IS BEING PROPOSED. US FISH AND WILDLIFE AND DNR MAPPING ALSO SHOW NO WETLANDS PRESENT.

LEGEND

- LOD - DENOTES LIMIT OF DISTURBANCE
- SF - DENOTES SILT FENCE
- HbS - DENOTES BENCHMARK
- SeA - DENOTES EXISTING SOILS FROM PUBLICLY AVAILABLE SOURCES
- DENOTES PROPOSED SWALE
- DENOTES PERIMETER TREE SCREENING
- SCE - DENOTES STABILIZED CONSTRUCTION ENTRANCE
- DENOTES FLOOD ZONE FROM PUBLICLY AVAILABLE SOURCES
- CMF - DENOTES CONCRETE MONUMENT FOUND
- DENOTES EXISTING UTILITY POLE



SHEET INDEX

- SHEET 1 COVER
- SHEET 2 SITE
- SHEET 3 PROFILES
- SHEET 4 DETAILS / NOTES

ONSITE SOILS CHART

SOIL SYMBOL	SOIL NAME	HYDROLOGIC SOIL GROUP	SLOPE
FaA	Fallsington sandy loams	B/D	0 to 2%
HbA	Hambrook sandy loam	B	0 to 2%
HbS	Hambrook sandy loam	B	2 to 5%
Za	Zekiah sandy loam	B/D	(frequently flooded)

NOTE: EROSION AND SEDIMENT CONTROL WILL BE STRICTLY ENFORCED

REVIEWED FOR THE CAROLINE SOIL CONSERVATION DISTRICT AND MEETS TECHNICAL REQUIREMENTS

APPROVED:

[Signature] DATE: 1/24/2018

NOTE: THE CAROLINE SOIL CONSERVATION DISTRICT RESERVES THE RIGHT TO ADD, DELETE, MODIFY, OR OTHERWISE ALTER THE EROSION CONTROL PROVISIONS OF THIS PLAN IN THE EVENT ADDITIONAL PROTECTION BECOMES NECESSARY.

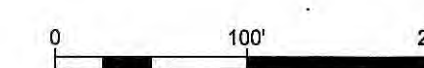
DEVELOPERS CERTIFICATION

I HEREBY CERTIFY THAT ALL DEVELOPMENT AND/OR CONSTRUCTION SHALL BE DONE ACCORDING TO THIS PLAN OF EROSION AND SEDIMENT CONTROL.

[Signature] DATE: 01-16-18

1. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR OR SUBCONTRACTOR TO NOTIFY THE ENGINEER OF ANY DEVIATION FROM THIS PLAN. ANY CHANGE MADE IN THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER WILL PLACE RESPONSIBILITY FOR SAID CHANGE ON THE CONTRACTOR OR SUBCONTRACTOR.

2. ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT THE DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF EROSION AND SEDIMENT BEFORE BEGINNING THE PROJECT.



COVER
OF THE LANDS OF

KAYANI FARMS, LLC

TAX MAP 55, GRID 7, PARCEL 143, LOT 2
FIFTH ELECTION DISTRICT CAROLINE COUNTY, MARYLAND
PREPARED FOR MAQBOOL A. KAYANI AND MARYAM MANSOOR

RAUCH
INC.
engineering design & development services

office: 410.770.3487 fax: 410.770.3487
email: design@raucheng.com web: www.raucheng.com
address: 110 N Washington St. - Easton, MD 21601



REVISIONS

REV #	DATE	DESCRIPTION
1	8/31/17	PER SOIL CONSERVATION DISTRICT COMMENTS
2	10/26/17	PER SOIL CONSERVATION DISTRICT COMMENTS
3	1/10/18	PER SOIL CONSERVATION DISTRICT COMMENTS
4		
5		
6		
7		
8		
9		
10		

DATE: MARCH 2017

JOB NUMBER:

SCALE: 1" = 100'

DRAWN BY: W. BONNETT

DESIGNED BY:

APPROVED BY: W. EWALD

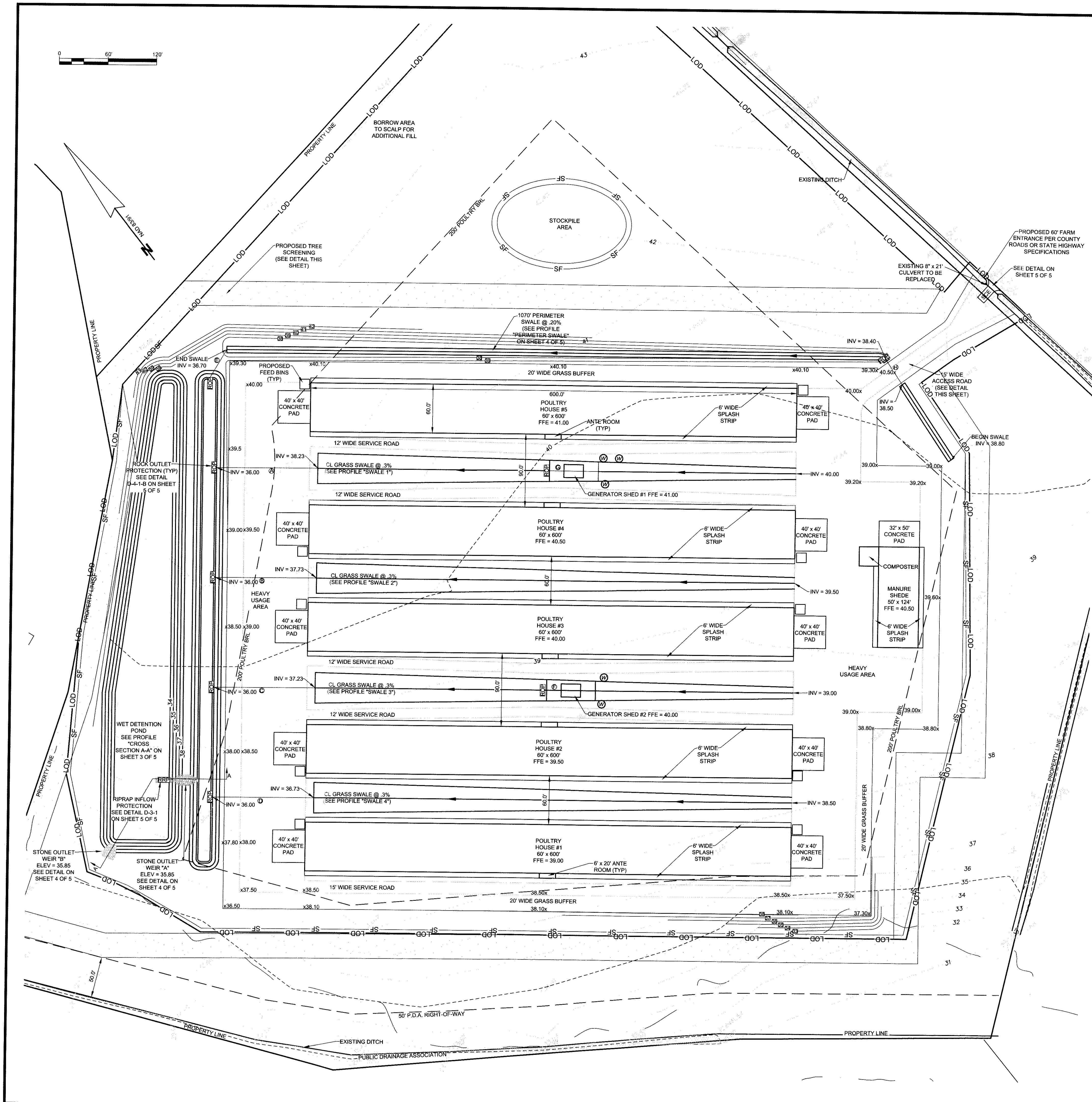
FOLDER REF:

SHEET NO.:

1 OF 4

FILE NO.:

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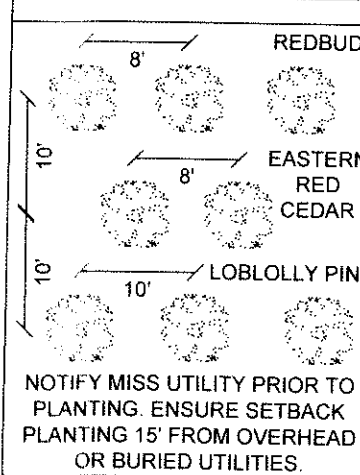


LEGEND	
	- DENOTES EXISTING SPOT ELEVATION
	x50.73 - DENOTES PROPOSED SPOT ELEVATION
	51 - DENOTES EXISTING CONTOUR
	36 - DENOTES PROPOSED CONTOUR
	LOD - DENOTES LIMIT OF DISTURBANCE
	SF - DENOTES SILT FENCE
	W - DENOTES PROPOSED WELL
	- DENOTES PROPOSED SWALE
	- DENOTES PERIMETER TREE SCREENING
	- DENOTES PROPOSED FEED BIN
	RRP - DENOTES RIPRAP INFLOW PROTECTION
	ROP - DENOTES ROCK OUTLET PROTECTION

PIPE SCHEDULE

DESIGNATION	LENGTH	DIAMETER	INV. IN	INV. OUT	MATERIAL
A	125'	15"	38.23	36.00	HDPE
B	125'	15"	37.73	36.00	HDPE
C	125'	15"	37.23	36.00	HDPE
D	125'	15"	36.73	36.00	HDPE
E	40'	15"	36.70	36.00	HDPE
F	60'	12"	38.27	38.09	HDPE
G	60'	12"	38.18	38.00	HDPE
H	40'	15"	39.18	39.00	HDPE

TREE SCREENING DETAIL



NOTE

CONTRACTOR RESPONSIBLE FOR INTEGRITY OF SITE AND COMPACTION

VARIATION FROM SEQUENCE OF CONSTRUCTION ONLY BY APPROVAL, VERBAL OR WRITTEN, FROM CAROLINE COUNTY SOIL CONSERVATION DISTRICT, COUNTY AND/OR STATE INSPECTORS

A MARYLAND DEPARTMENT OF THE ENVIRONMENT NOTICE OF INTENT (NOI) GENERAL PERMIT FOR CONSTRUCTION ACTIVITY IS REQUIRED FOR ALL CONSTRUCTION ACTIVITY IN MARYLAND WITH A PLANNED TOTAL DISTURBANCE OF 1 ACRE OR MORE

AS MANDATED BY THE NOTICE OF INTENT (NOI) GENERAL PERMIT ISSUED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT, AN INSPECTION MUST BE PERFORMED ON SITE OF ALL SEDIMENT CONTROLS ON A WEEKLY BASIS AND AFTER EVERY RAINFALL EVENT. ALL SELF-INSPECTIONS MUST BE MAINTAINED ALONG WITH ALL APPLICABLE GOVERNING AGENCY INSPECTION REPORTS IN A LOG BOOK, TO BE KEPT ON SITE AT ALL TIMES

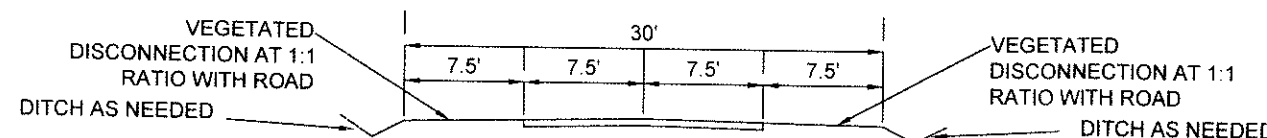
CONSTRUCTION NOTES:

- ALL PERMITS SHALL BE OBTAINED PRIOR TO CONSTRUCTION
- PIPE SHALL BE HIGH-DENSITY POLYETHYLENE UNLESS SPECIFIED OTHERWISE WITH SOIL TIGHT JOINTS. PIPE SHALL EXTEND A MINIMUM OF ONE FOOT BEYOND THE TOE OF FILL AND HAVE A MINIMUM OF FIVE (5) FEET OF FILL COVERED OVER THE TOP OF THE PIPE. FILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT TO EXCEED FOUR (4) INCHES IN THICKNESS AND COMPACTED BY HAND TAMPERS OR OTHER COMPACTION EQUIPMENT. PIPE SHALL BE FIRMLY AND UNIFORMLY BEDDED THROUGHOUT ITS ENTIRE LENGTH. ANY SOFT SPONGY UNSUITABLE MATERIAL SHALL BE REMOVED AND REPLACED WITH SUITABLE EARTH COMPACTED TO PROVIDE ADEQUATE SUPPORT
- PREPARED THE SUBGRADE FOR THE RIPRAP ACCORDING TO THE DRAWING. SIDE SLOPES SHALL BE EXCAVATED OR FILLED TO A TWO FOOT HORIZONTAL TO A ONE FOOT VERTICAL (2:1) SLOPE. ROCK SHALL CONFORM TO THE SPECIFIC GRADING LIMITS. GEOTEXTILE (FILTER CLOTH) CLASS C SHALL BE PLACED UNDERNEATH THE RIP RAP AND EXTEND TO THE TOP OF THE ROCK. GEOTEXTILES SHALL BE A MINIMUM OF ONE (1) FOOT. ROCK SHALL BE WELL GRADED AND PAVED SO THAT IT BLENDS WITH THE EXISTING GROUND
- RIP RAP AND GEOTEXTILE SHALL MEET THE REQUIREMENTS OF THE MARYLAND DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS. ALL OTHER CONSTRUCTION AND MATERIALS SHALL CONFORM TO NATURAL RESOURCE CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS. (NO CHANGES SHALL BE MADE TO THE PLANS WITHOUT PRIOR APPROVAL)
- CAROLINE SOIL CONSERVATION DISTRICT WILL BE ONSITE TO PERFORM SITE INSPECTIONS AND CONSERVATION CHECKS

SEQUENCE OF CONSTRUCTION

- CONTACT CAROLINE SOIL CONSERVATION DISTRICT AT 410.479.1202, EXT 3 AT LEAST TWO WEEKS IN ADVANCE TO SCHEDULE A PRE CONSTRUCTION MEETING TO REVIEW AND BECOME FAMILIAR WITH THE PLANS AND NPDES LOG BOOK (TO BE COMPLETED WEEKLY AND AFTER EACH 1/2" RAIN)
- CONTACT MISS UTILITY AT LEAST 48 HOURS BEFORE YOU DIG
- INSTALL STABILIZED CONSTRUCTION ENTRANCE AND PERIMETER CONTROLS AS SHOWN ON THE PLAN
- ALL OFF-SITE DRAINAGE SHALL BE DIVERTED AROUND CONSTRUCTION SITE
- EXCAVATE STORMWATER POND (TO BE USED AS SEDIMENT TRAP DURING CONSTRUCTION). TOP SOIL TO BE STRIPPED (6" TO 8") AND STOCKPILED SEPARATELY FROM FILL MATERIAL IN APPROVED LOCATION AS SHOWN ON THE PLANS AND WILL BE USED FOR FINAL SLOPE PREPARATION OR STORMWATER POND SLOPES
- SITE DEWATERING WILL BE DONE WITH THE USE OF A FILTER BAG AS SHOWN ON THE DETAILS (SEE SHEET 4 OF 4)
- BEGIN SWALE CONSTRUCTION FROM TRAP, CULVERT AND ROCK OUTLET PROTECTION. SWALES TO BE CONSTRUCTED FROM DOWN STREAM TO UPSTREAM. INSTALL CHECK DAMS, IF DESIGNED. STABILIZE SWALES BY APPROVED METHODS
- USE OF TOPSOIL IS PROHIBITED AS FILL TO BRING HOUSE PADS UP TO GRADE
- NO SOIL IS TO LEAVE SITE UNLESS THE PROPER PERMITS OR APPROVALS HAVE BEEN OBTAINED THROUGH THE CAROLINE SOIL CONSERVATION DISTRICT AND THE MARYLAND DEPARTMENT OF ENVIRONMENT
- CONSTRUCT PADS, GENERATOR SWALE PADS, MANURE AND COMPOSTER PADS (MAKE SURE TO INSTALL FILTER FABRIC SHOWING TEST DATA NOT LESS THAN EOS BETWEEN 70 AND 100 WOVEN OR NON-WOVEN FABRIC MATERIAL, TENSILE STRENGTH OF 100 LB. MINIMUM PUNCTURE STRENGTH OF 40 LB. MINIMUM AND ABRASION RESISTANCE OF 25 LB. IN ANY PRINCIPAL DIRECTION). CONTACT CAROLINE SOIL CONSERVATION DISTRICT TO VERIFY THAT THE GEOTEXTILE HAS BEEN INSTALLED UNDER MANURE STORAGE STRUCTURE BUILDING PAD
- GRADE DRIVEWAYS AND LOAD OUT AREAS, STABILIZE WITH STONE/GRAVEL/SHELLS OR MILLINGS
- CONSTRUCT FOUNDATIONS FOR POULTRY HOUSES AND INSTALL UTILITIES
- FINISH GRADE SITE. INSTALL SPLASH STRIPS ALONG POULTRY HOUSES, TOP SERVICE ROADS AND HEAVY USE AREAS WITH A MINIMUM OF 2" STONE, SLAG OR SHELLS
- CONSTRUCT POULTRY HOUSES AND INSTALL UTILITIES
- INSTALL POND INLET AND OUTLET STRUCTURES
- PREPARE AREAS FOR PERMANENT VEGETATION WITHIN 7 DAYS WITH LIME, FERTILIZER AND SEED AND STABILIZE WITH STRAW OR MULCH BY MDE STANDARDS
- ONCE THE SITE IS FULLY STABILIZED AND WITH THE APPROVAL OF THE MARYLAND DEPARTMENT OF ENVIRONMENT AND/OR THE CAROLINE SOIL CONSERVATION DISTRICT INSPECTOR, REMOVE ALL SEDIMENT CONTROL DEVICES
- CLOSE FEDERAL NPDES PERMIT FOR CONSTRUCTION (410-537-3510)

ACCESS ROAD SECTION



POULTRY HOUSE SITE PLAN

OF THE LANDS OF

KAYANI FARMS, LLC

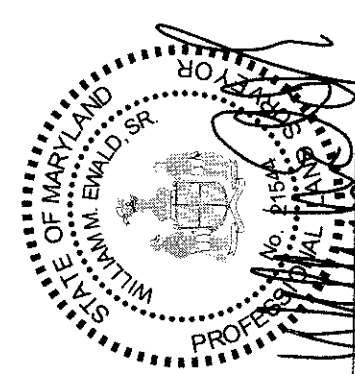
TAX MAP 55, GRID 7, PARCEL 143, LOT 2

FIFTEENTH ELECTION DISTRICT CAROLINE COUNTY, MARYLAND

PREPARED FOR MAQBOOL A. KAYANI AND MARYAM MANSOUR

RAUCH
engineering design &
development services

Office: 410.770.9081 | Fax: 410.770.3867
email: design@raucheng.com | web: www.raucheng.com
address: 110 N Washington St. - Euston, MD 21601



DATE

REVISIONS

REV #	DATE	DESCRIPTION
1	8/31/17	PER SOIL CONSERVATION DISTRICT COMMENTS
2	10/26/17	PER SOIL CONSERVATION DISTRICT COMMENTS
3	1/10/18	PER SOIL CONSERVATION DISTRICT COMMENTS

DATE:

MARCH 2017

JOB NUMBER:

SCALE:

1" = 60'

DRAWN BY:

W. BONNETT

DESIGNED BY:

W. EWALD

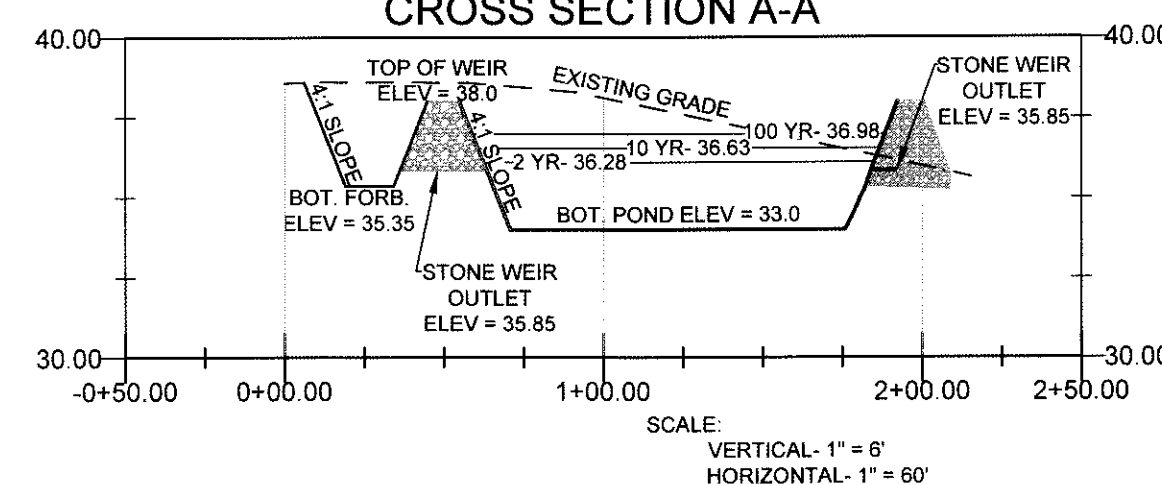
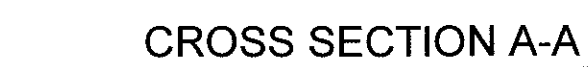
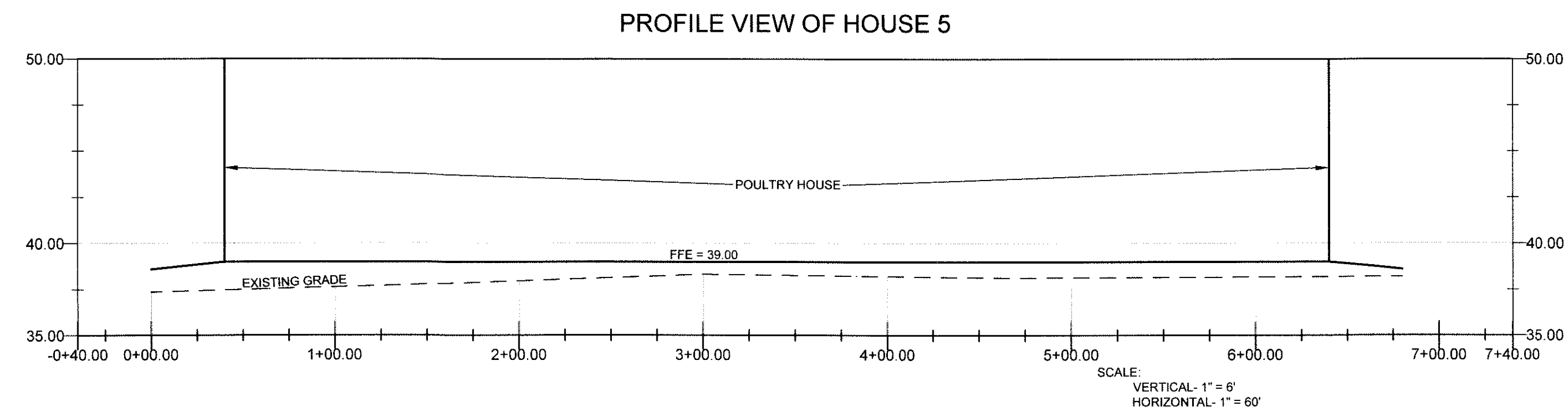
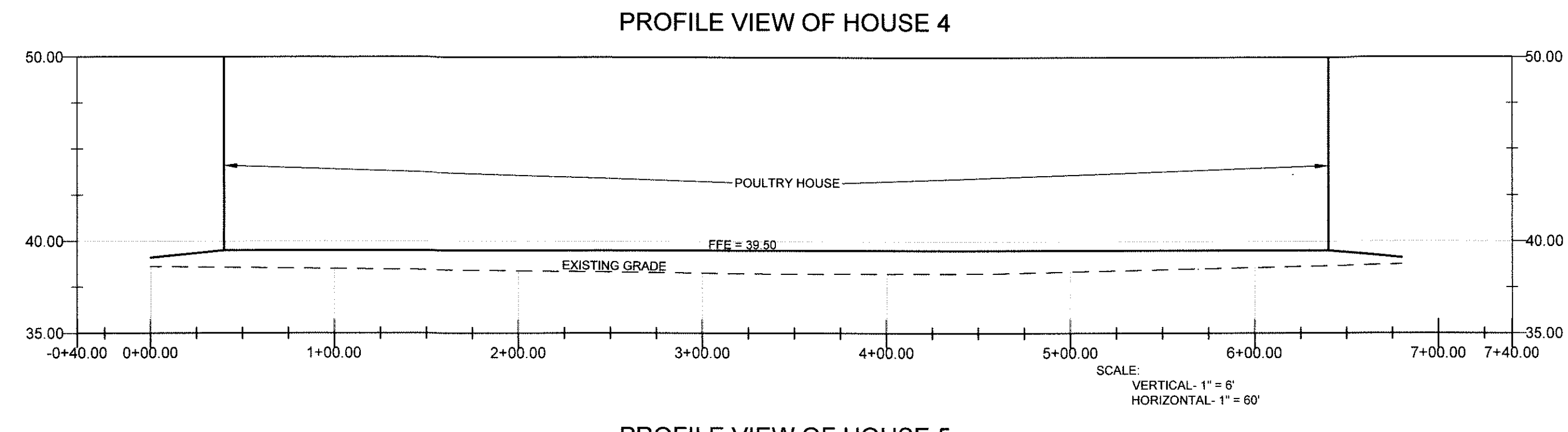
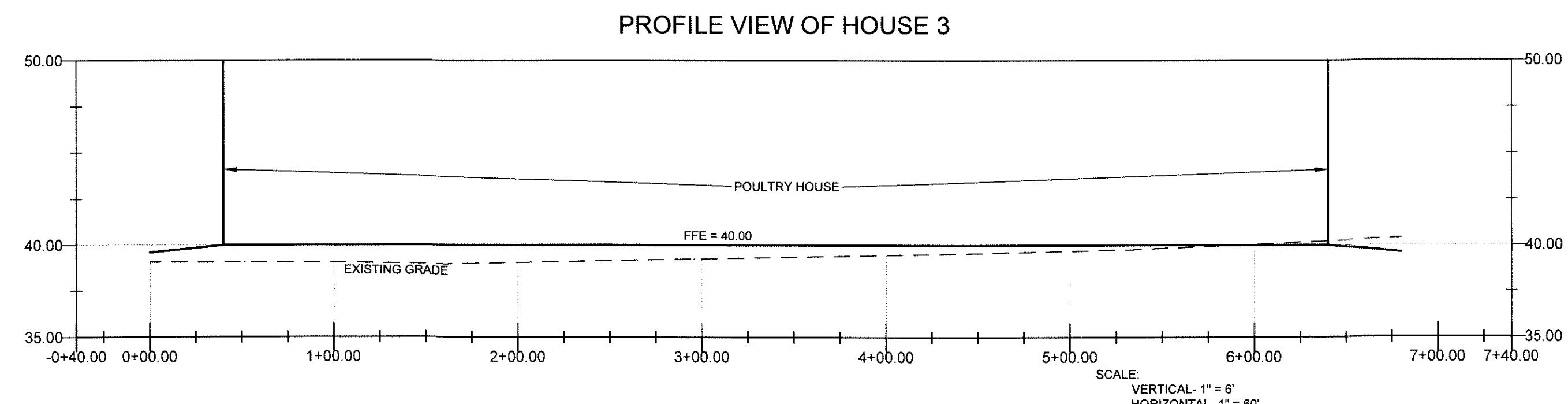
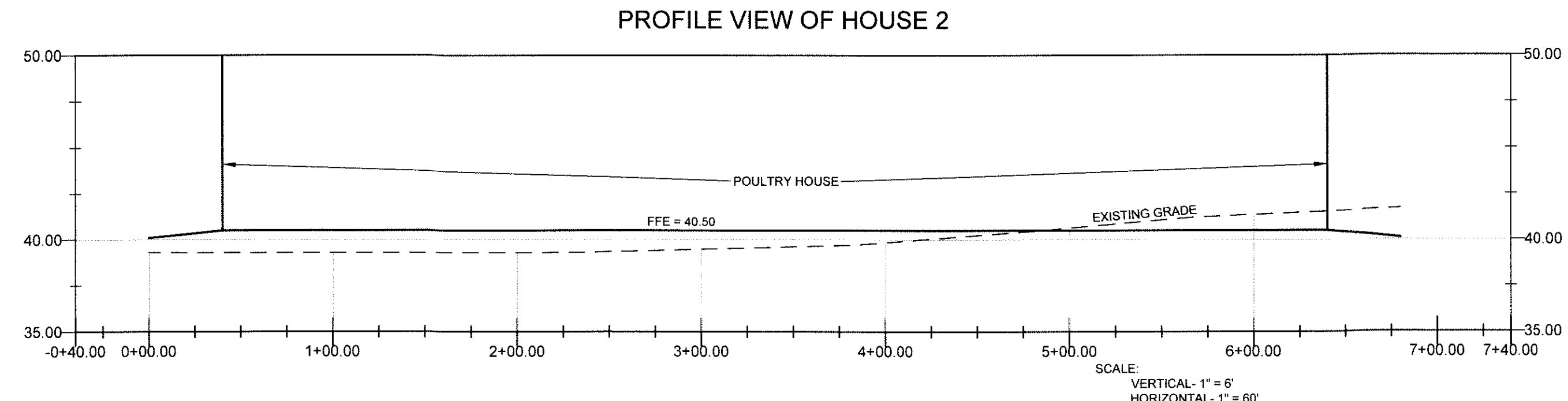
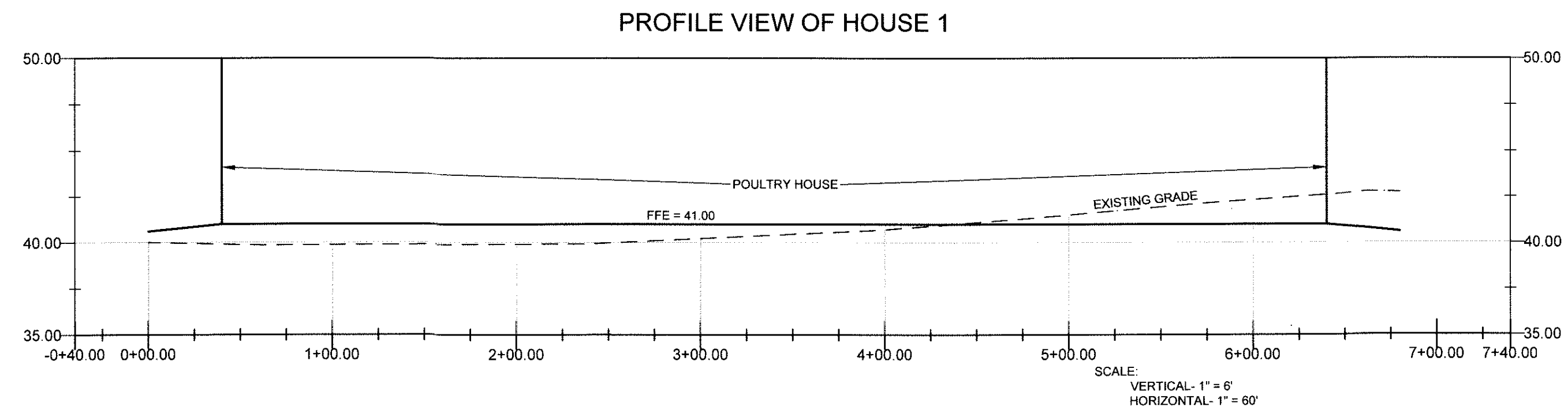
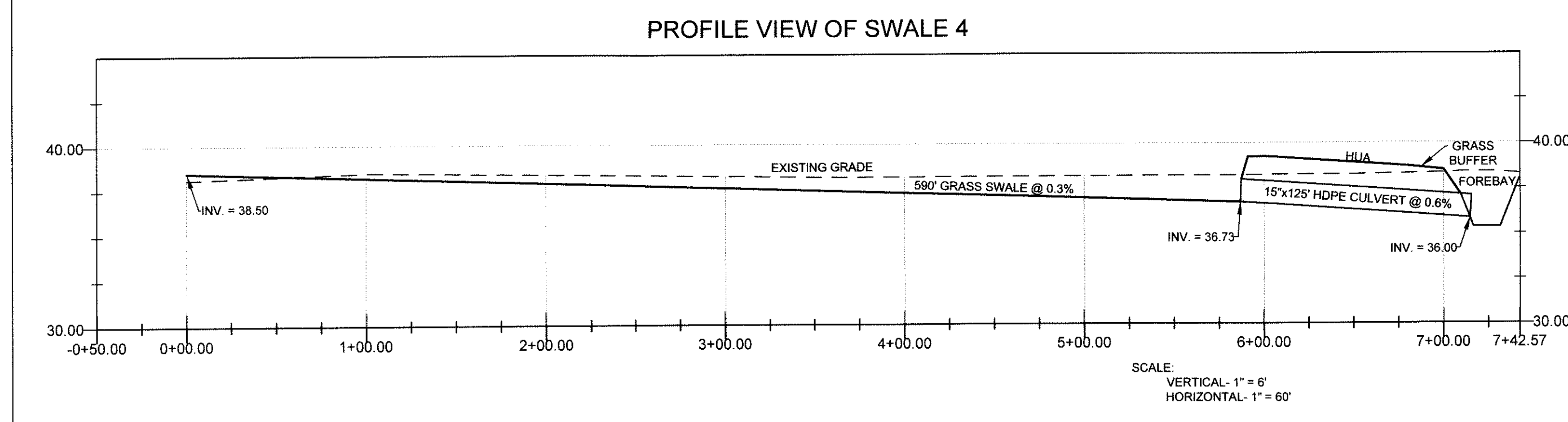
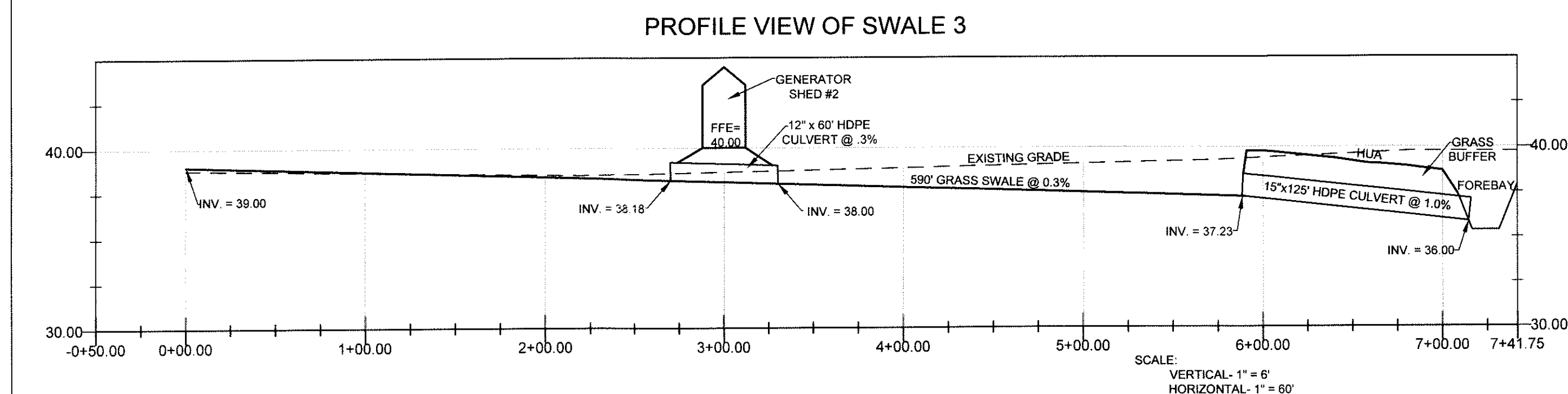
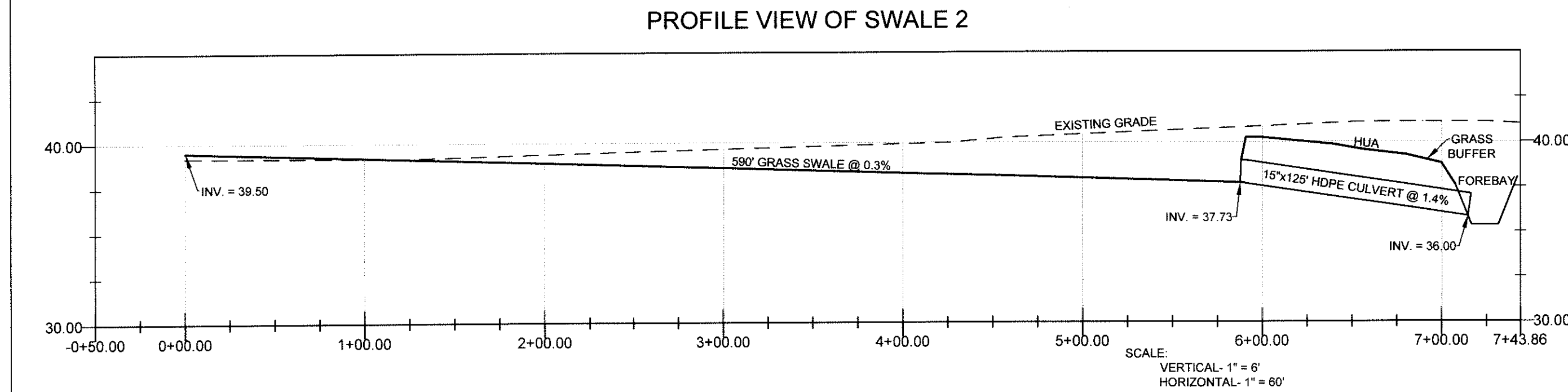
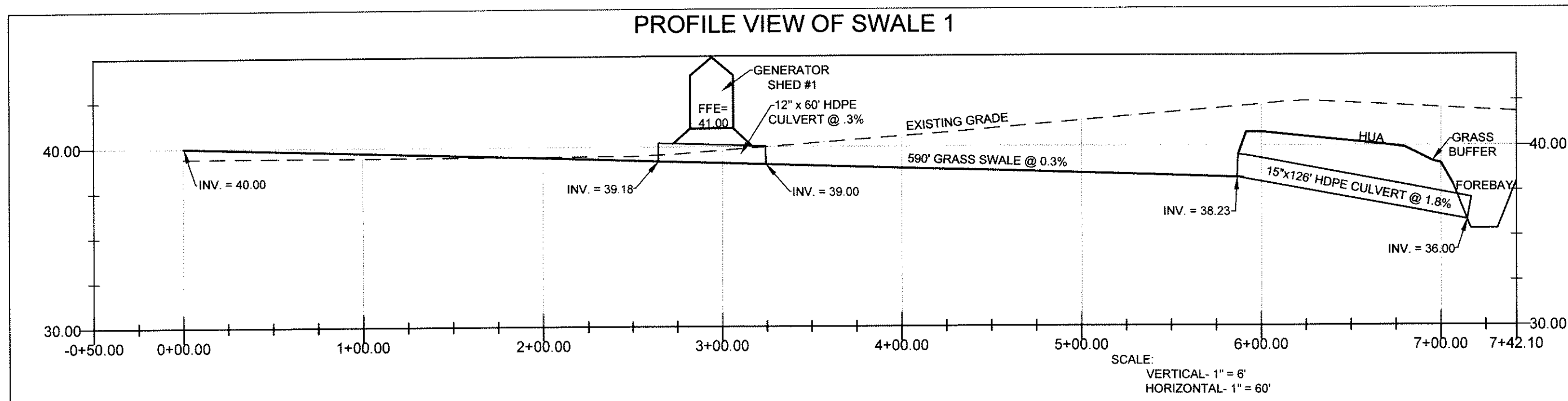
APPROVED BY:

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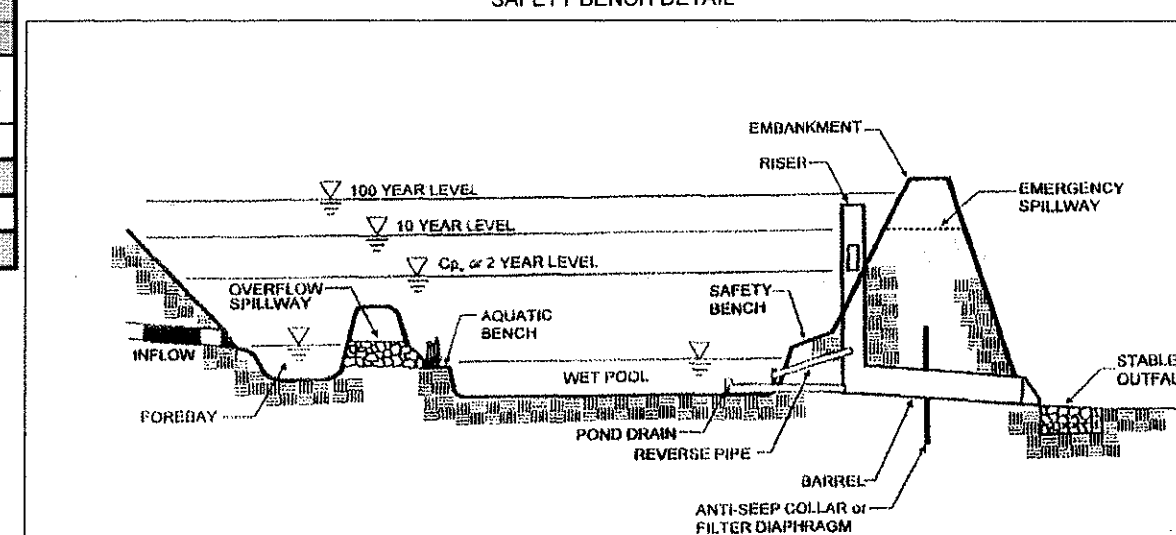
2 OF 4

FILE NO.:



NOTE:

- 1.) TOTAL POND DRY STORAGE REQUIRED 25,241 CU.FT.
- 2.) TOTAL POND DRY STORAGE AVAILABLE 91,700 CU.FT.
- 3.) TOTAL FOREBAY WET STORAGE AVAILABLE 5,038 CU.FT.
(593'x15' @ 4:1 SLOPES)
- 4.) A SAFETY BENCH IS REQUIRED FOR ALL PONDS
DEEPER THAN 4 FEET.



INPUT	
HSG soil type (A, B, C, D)	B
number of poultry houses (1 - 6)	5
length of poultry house(s) (600 ft max)	600

OUTPUT	
INFILTRATION POCKET	
minimum volume (cf)	0
side slopes	0
depth (ft)	0
length (ft)	0
width (ft)	0

WETLAND FOREBAY	
minimum volume (cf)	3,802
side slopes	3:1
depth (ft)	0.5
length (ft)	467
width (ft)	15

POND	
minimum DRY storage volume (cf)	25,241
OUTFALL	
1- yr peak outflow discharge (cfs)	0.3

PROFILES

OF THE LANDS OF

KAYANI FARMS, LLC

TAX MAP 55, GRID 7, PARCEL 143, LOT 2

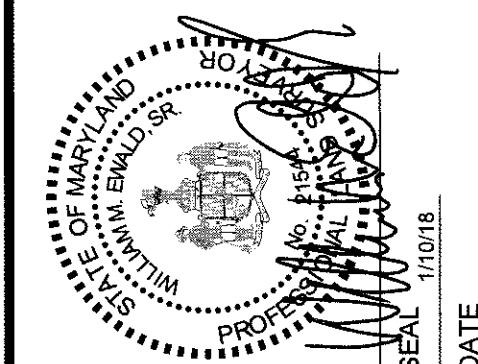
FIFTELELECTION DISTRICT, CAROLINE COUNTY, MARYLAND

PREPARED FOR MAQBOOL A. KAYANI AND MARYAM MANSOOR

RAUCH inc. engineering design & development services

engineering design & development services

Office: 410.770.9081 | fax: 410.770.3667
Email: design@raucheng.com | web: www.raucheng.com
Address: 110 N Washington St - Easton, MD 21601

[illegible]

DATE: MARCH 2013

JOB NUMBER:

SCALE:

DRAWN BY: W. BONNE

DESIGNED BY:

APPROVED BY: _____

FOLDER REF:

SHEET NO.:

3 OF 3

EROSION AND SEDIMENT CONTROL STANDARDS AND SPECIFICATIONS FOR VEGETATIVE STABILIZATION

- 1) CONTRACTOR SHALL INSTALL SOIL EROSION AND SEDIMENT CONTROL DEVICES PRIOR TO ANY GRADING FOLLOWING INITIAL DISTURBANCE OR RE-DISTURBANCE. PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER CONTROLS, DIKES, SWALES, DITCHES, PERIMETER SLOPES GREATER THAN THREE (3) HORIZONTAL TO ONE (1) VERTICAL (3:1) AND SEVEN (7) DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.
- 2) ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ARE TO BE PROVIDED AS INDICATED ON THIS PLAN WITH LOCATION ADJUSTMENTS TO BE MADE IN THE FIELD AS NECESSARY, AND TO BE MAINTAINED AT THE END OF EACH WORKING DAY UNTIL PROJECT COMPLETION. THE MINIMUM AREA PRACTICAL SHALL BE DISTURBED FOR THE MINIMAL AMOUNT OF TIME POSSIBLE.
- 3) CLEARING AND GRUBBING SHALL INCLUDE ALL TREES, BRUSH, DEBRIS, ROOT MAT AND ORGANIC MATERIALS TO BE REMOVED.
- 4) TEMPORARY SEEDING SHALL BE ACCOMPLISHED BETWEEN FEBRUARY 15TH THROUGH APRIL 30TH, OR AUGUST 15TH THROUGH NOVEMBER 30TH. DURING OTHER TIMES, TEMPORARY MULCHING SHALL BE PROVIDED.
- 5) TEMPORARY SEEDING SHALL CONFORM TO THE FOLLOWING APPLICATIONS: 438 LBS. PER ACRE OF 10-20-22 4,000 LBS. PER ACRE OF GROUND LIMESTONE. TO BE INCORPORATED INTO THE SOIL BY DISKING OR OTHER SUITABLE MEANS. ANNUAL RYEGRASS SHALL BE APPLIED AT A RATE OF 50 LBS. PER ACRE USING SUITABLE EQUIPMENT. MULCHING SHALL BE ACCOMPLISHED IMMEDIATELY AFTER SEEDING.

Seed Mixture (For Hazard Zone 7a) (From Table 2b)					Fertilizer Rate (10-10-10)
No.	Species	Appl. Rate (lbs./ac.)	Seeding Dates	Seeding Depths	
	ANNUAL RYE GRASS	50 lbs.	2/1-4/30 8/15-11/1	1/4" 1/2"	600 lb/ac 15 lb/ 1000 sf
	MILLET	50 lbs.	5/1-8/14	1/2"	

- 6) MULCHING SHALL BE UNCHOPPED, UNROTTED, SMALL GRAIN STRAW APPLIED AT A RATE OF 2-2½ TONS PER ACRE. ANCHOR MULCH WITH A MULCH ANCHORING TOOL ON THE CONTOUR. WOOD CELLULOSE FIBER MAY BE USED FOR ANCHORING STRAW AT A RATE OF 750 LBS. PER ACRE MIXED WITH WATER AT A MAXIMUM OF 50 LBS. OF 1½% OOD CELLULOSE FIBER PER 100 GALS. OF WATER. OR WITH A SYNTHETIC LIQUID BINDER ACCORDING TO MANUFACTURER RECOMMENDATIONS. WOOD CELLULOSE FIBER USED AS MULCH MUST BE APPLIED AT A NET DRY WEIGHT OF 1,500 LBS. PER ACRE. MIX WOOD CELLULOSE FIBER WITH WATER TO ATTAIN A MIXTURE WITH A MAXIMUM OF 50 LBS. OF WOOD CELLULOSE FIBER PER 100 GALS. OF WATER.
- 7) PERMANENT SEEDING SHALL BE ACCOMPLISHED BETWEEN MARCH 1ST THROUGH MAY 15TH, OR AUGUST 15TH THROUGH OCTOBER 15TH. PERMANENT SEEDING AT OTHER THAN SPECIFIED TIMES WILL BE ALLOWED ONLY UPON WRITTEN APPROVAL. PERMANENT SEEDING SHALL CONFORM TO THE FOLLOWING APPLICATIONS: PERMANENT SEEDING FOR SITES HAVING DISTURBED OVER FIVE (5) ACRES SHALL USE FERTILIZER RATES RECOMMENDED BY A SOIL TESTING AGENCY AND THE RECOMMENDATIONS PROVIDED IN THE PERMANENT SEEDING SUMMARY TABLE. PERMANENT SEEDING FOR CONDITIONS OTHER THAN LISTED ABOVE SHALL BE PERFORMED AT THE RATE AND DATES AS PROVIDED IN THE PERMANENT SEEDING SUMMARY TABLE BELOW. FERTILIZER AND LIMENAGEMENTS SHALL BE INCORPORATED INTO THE TOP 3" OF THE SOIL BY DISKING OR OTHER SUITABLE MEANS. MULCHING SHALL BE ACCOMPLISHED AS DISCUSSED IN ITEM #6 OF THESE SPECIFICATIONS.

Seed Mixture (For Hazard Zone 7a) (From Table 2b)					Fertilizer Rate (10-20-20)		
No.	Species	Appl. Rate (lbs./ac.)	Seeding Dates	Seeding Depths	N	P205	K20
10	80% TALL FESCUE 20% HARD FESCUE	120 lbs 30 lbs	3/1-5/15 8/15-11/15	1/4" 1"	90 lb/ac 2 lb/ 1000 sf	175 lb/ac 4 lb/ 1000 sf	175 lb/ac 4 lb/ 1000 sf

- 8) ANY SPOIL OR BORROW WILL BE PLACED AT A SITE APPROVED BY THE SOIL CONSERVATION DISTRICT.

- 9) ALL AREAS REMAINING OR INTENDED TO REMAIN DISTURBED FOR LONGER THAN SEVEN (7) DAYS SHALL BE STABILIZED IN ACCORDANCE WITH THE USDA, NATURAL RESOURCES CONSERVATION SERVICE STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, IN DEVELOPING AREAS FOR CRITICAL AREA STABILIZATION.

- 10) IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR OR SUBCONTRACTOR TO NOTIFY THE ENGINEER OF ANY DEVIATION FROM THIS PLAN. ANY CHANGE MADE IN THIS PLAN WITHOUT WRITTEN AUTHORIZATION FROM THE ENGINEER WILL PLACE RESPONSIBILITY OF SAID CHANGE ON THE CONTRACTOR OR SUBCONTRACTOR.

Standard Erosion And Sediment Control Notes

The Water Management Administration requires that these notes, in their entirety, be included on the erosion and sediment control plan. It is recognized that every note may not apply to all projects. The requirement of any individual note not applicable to the subject project is not binding upon the applicant or the applicant's contractor. 1. The contractor shall notify the Administration (VMA) at (410) 537-3510 seven (7) days before commencing any land disturbing activity and, unless waived by the Administration, shall be required to hold a pre-construction meeting between project representatives and a representative of VMA2. The contractor must notify VMA in writing and by telephone at the following points:

- A. The required pre-construction meeting.
- B. Following installation of sediment control measures.
- C. During the installation of sediment basins (to be converted into permanent stormwater management structures) at the required inspection points (see Inspection Checklist on plan). Notification prior to commencing construction of each step is mandatory.
- D. Prior to removal or modification of any sediment control structure(s).
- E. Prior to removal of all sediment control devices.
- F. Prior to final acceptance.

3. The contractor shall construct all erosion and sediment control measures per the approved plan and construction sequence and shall have them inspected and approved by the agency inspector or VMA Inspector prior to beginning any other land disturbances. Minor sediment control device location adjustments may be made in the field with the approval of the VMA Inspector. The contractor shall ensure that all runoff from disturbed areas is directed to the sediment control devices and shall not remove any erosion or sediment control measure without prior permission from MA Inspector and agency inspector. The contractor must obtain prior agency and VMA approval for changes to the Sediment Control Plan and / or Sequence of Construction.

4. The contractor shall protect all points of construction ingress and egress to prevent the deposition of materials onto public roads. All materials deposited onto public roads shall be removed immediately.

5. The contractor shall inspect daily and maintain continuously in an effective operating condition all erosion and sediment control measures until such times as they are removed with prior permission from VMA Inspector and agency inspector.

6. All sediment basins, trap embankments and slopes, perimeter dikes, swales and all disturbed slopes steeper or equal to 3:1 shall be stabilized with sod or seed and anchored straw mulch, or other approved stabilization measures, as soon as possible but no later than seven (7) calendar days after establishment. All areas disturbed outside of the perimeter sediment control system must be minimized. Maintenance must be performed as necessary to ensure continued stabilization. (Requirement for stabilization may be reduced to three (3) days for sensitive areas.)

7. The contractor shall apply sod or seed and anchored straw mulch, or other approved stabilization measures to all disturbed areas and stockpiles within fourteen (14) calendar days after stripping and grading activities have ceased in the area. Maintenance shall be performed as necessary to ensure continued stabilization. (Requirement may be reduced to seven (7) days for sensitive areas.)

8. Prior to removal of sediment control measures, the contractor shall stabilize and have established permanent stabilization for all contributory disturbed areas using sod or an approved permanent seed mixture with required soil amendments and an approved anchored mulch. Wood fiber mulch may only be used in seeding season where the slope does not exceed 10% and grading has been done to promote sheet flow drainage. Areas brought to finished grade during the seeding season shall be permanently stabilized as soon as possible, but not later than fourteen (14) calendar days after establishment. When property is brought to finished grade during the months of November through February, and permanent stabilization is found to be impractical, temporary seed and anchored straw mulch shall be applied to disturbed areas. The final permanent stabilization of such property shall be applied by March 15 or earlier if ground and weather conditions allow.

9. The site's approval letter, approved Erosion and Sediment Control Plans, daily log books, and test reports shall be available at the site for inspection by duly authorized officials of VMA and the agency responsible for project.

10. Surface drainage flows over unsubstabilized cut and fill slopes shall be controlled by either preventing drainage flows from traversing the slopes or by installing protective devices to lower the water downslope without causing erosion. Dikes shall be installed and maintained at the top of a cut or fill slope until the slope and drainage area to it are fully stabilized, at which time they must be removed and final grading done to promote sheet flow drainage. Protective methods must be provided at points of concentrated flow where erosion is likely to occur.

11. Permanent swales or other points of concentrated water flow shall be stabilized with sod or seed with an approved erosion control matting, np-rap, or by other approved stabilization measures.

12. Temporary sediment control devices may be removed, with permission of VMA Inspector and agency inspectors, within thirty (30) calendar days following establishment of permanent stabilization in all contributory drainage areas. Stormwater management structures used temporarily for sediment control shall be converted to the permanent configuration within this time period as well.

13. No permanent cut or fill slope with a gradient steeper than 3:1 will be permitted in lawn maintenance areas. A slope gradient of up to 2:1 will be permitted in nonmaintenance areas provided that those areas are indicated on the erosion and sediment control plan with a low-maintenance ground cover specified for permanent stabilization. Slope gradient steeper than 2:1 will not be permitted with vegetative stabilization.

14. For finished grading, the contractor shall provide adequate gradients to prevent water from ponding for more than twenty four (24) hours after the end of a rainfall event. Drainage courses and swale flow areas may take as long as forty-eight (48) hours after the end of a rainfall event to drain. Areas designed to have standing water shall not be required to meet this requirement.

15. Sediment traps or basins are not permitted within 20 feet of a foundation that exists or is under construction. No structure may be constructed within 20 feet of an active sediment trap or basin.

16. The VMA Inspector has the option of requiring additional safety or sediment control measures, if deemed necessary.

17. All trap depth dimensions are relative to the outlet elevation. All traps must have a stable outfall. All traps and basins shall have stable inflow points.

18. Vegetative stabilization shall be performed in accordance with the Standards and Specifications for Soil Erosion and Sediment Control. Refer to appropriate specifications for temporary seeding, permanent seeding, mulching, sodding, and ground covers.

19. Sediment shall be removed and the trap or basin restored to its original dimensions when the sediment has accumulated to one quarter of the total depth of the trap or basin. Total depth shall be measured from the trap or basin bottom to the crest of the outlet.

20. Sediment removed from traps (and basins) shall be placed and stabilized in approved areas, but not within a floodplain, wetland or tree-save area. When pumping sediment laden water, the discharge must be directed to a sediment trapping device prior to release from the site. A sump pit may be used if sediment traps themselves are being pumped out.

21. All water removed from excavated areas shall be passed through a VMA approved dewatering practice or pumped to a sediment trap or basin prior to discharge to a functional storm drain system or to stable ground surface.

22. Sediment control for utility construction for areas outside of designed controls or as directed by engineer or VMA Inspector:

A. Call "Miss Utility" at 1-800-257-7777 48 hours prior to the start of work.

B. Excavated trench material shall be placed on the high side of the trench.

C. Trenches for utility installation shall be backfilled, compacted, and stabilized at the end of each working day. No more trench shall be opened than can be completed the same day.

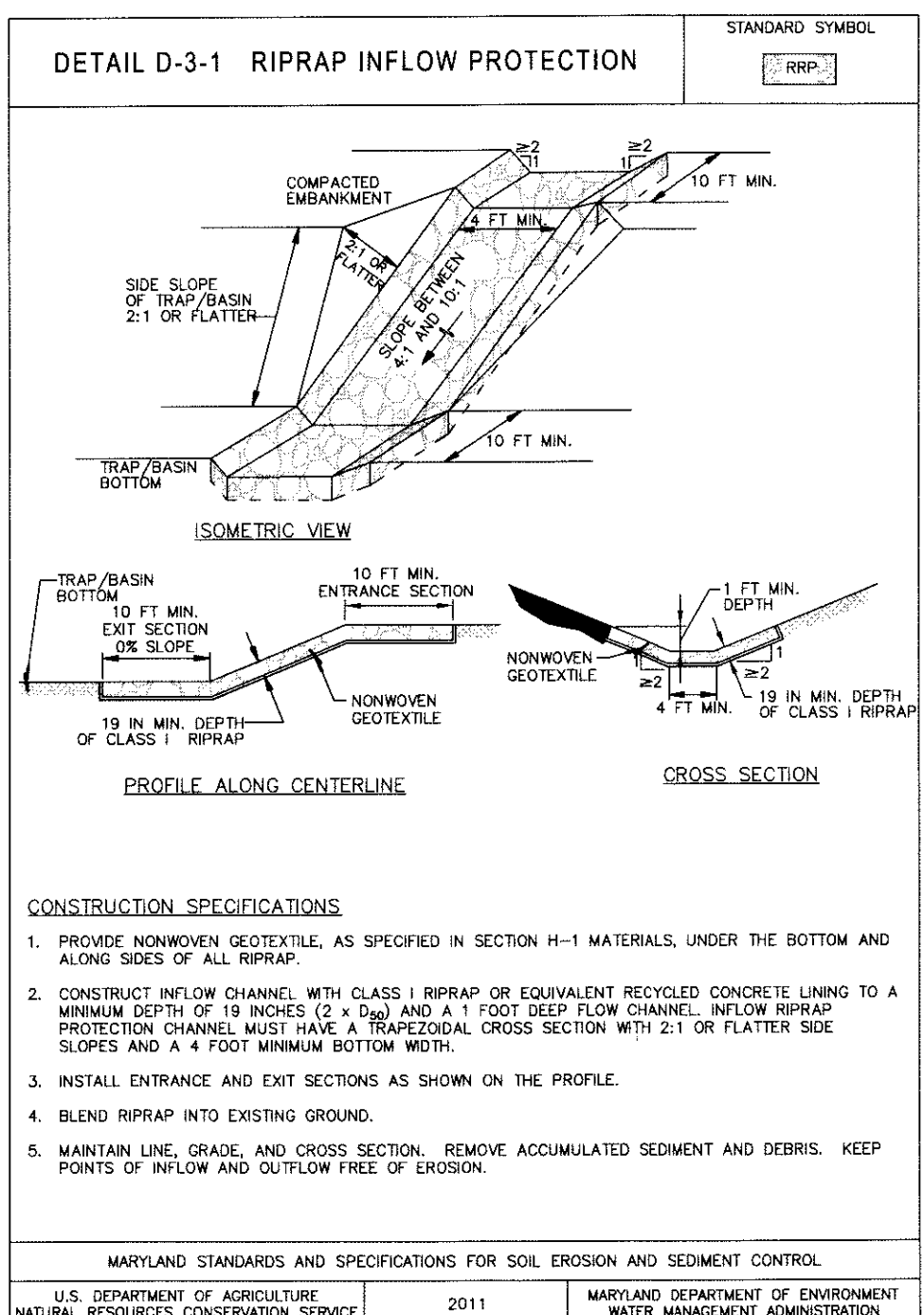
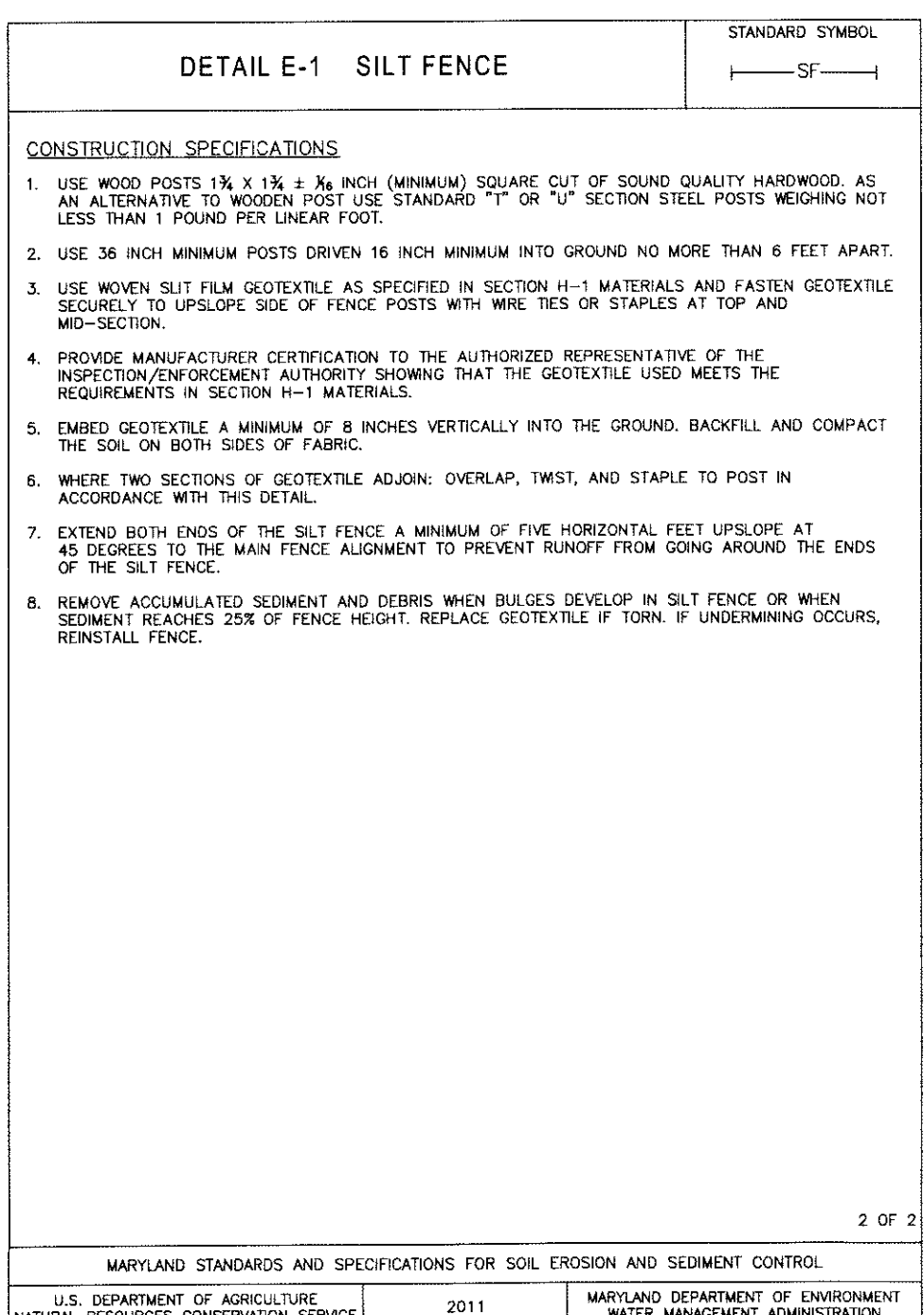
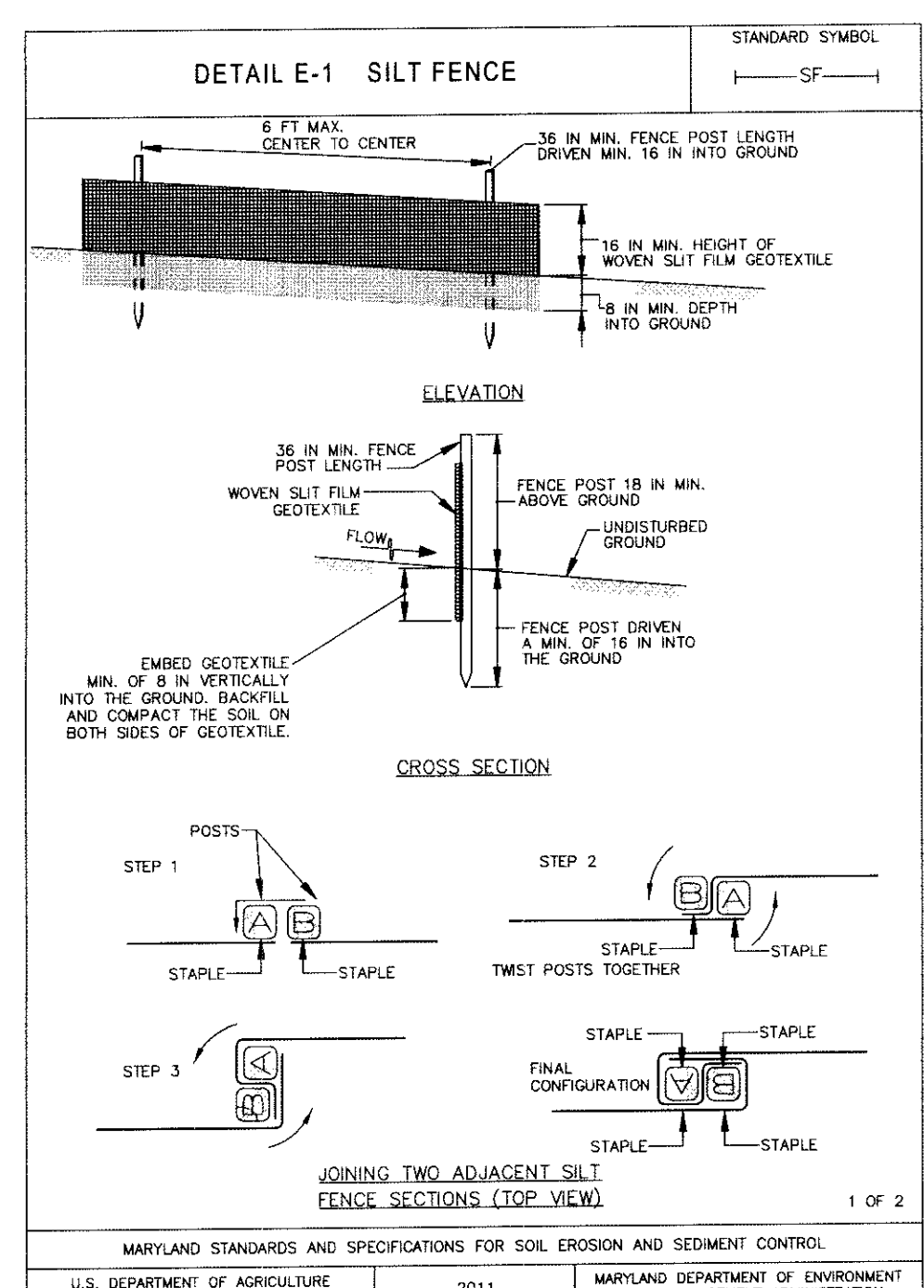
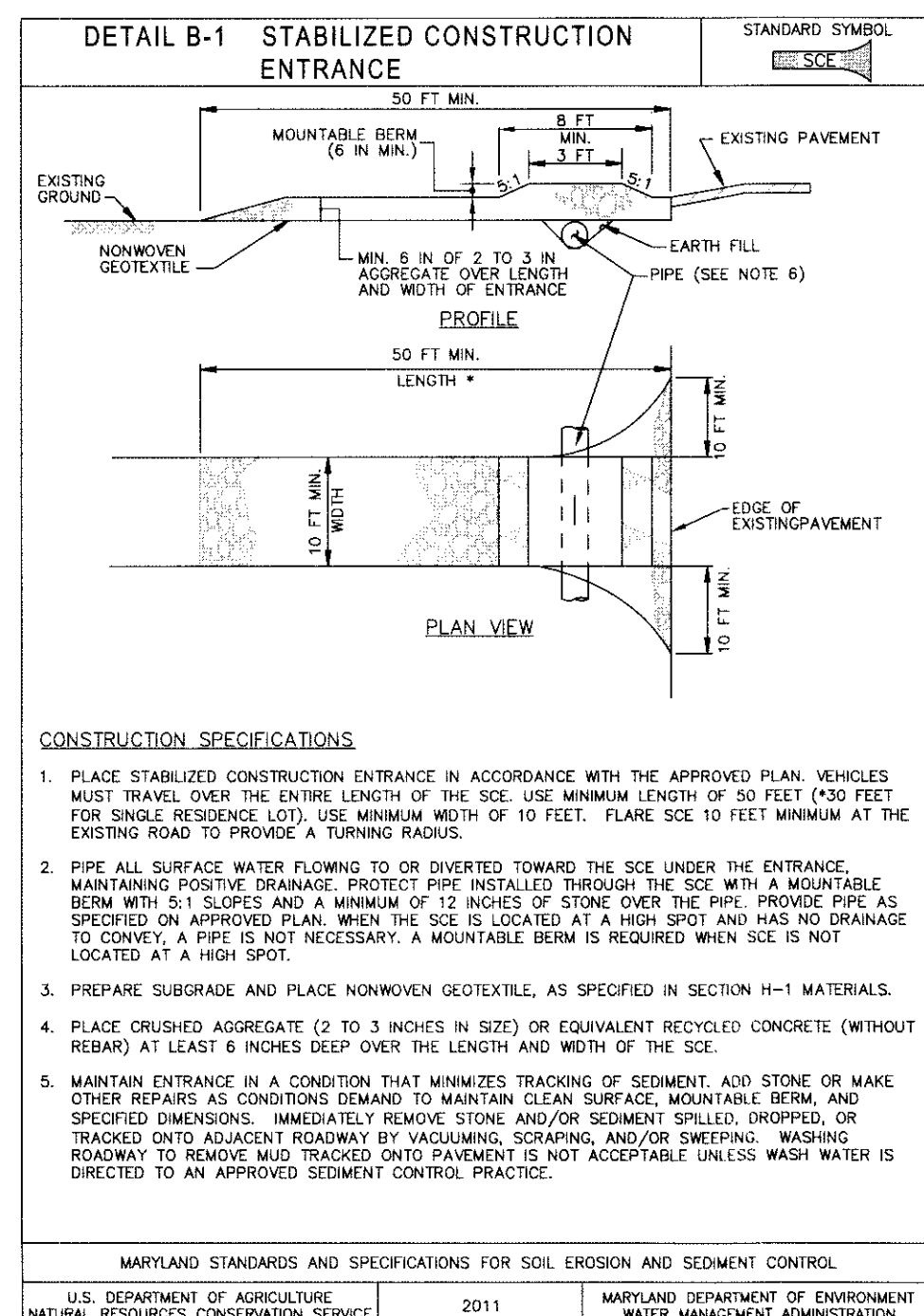
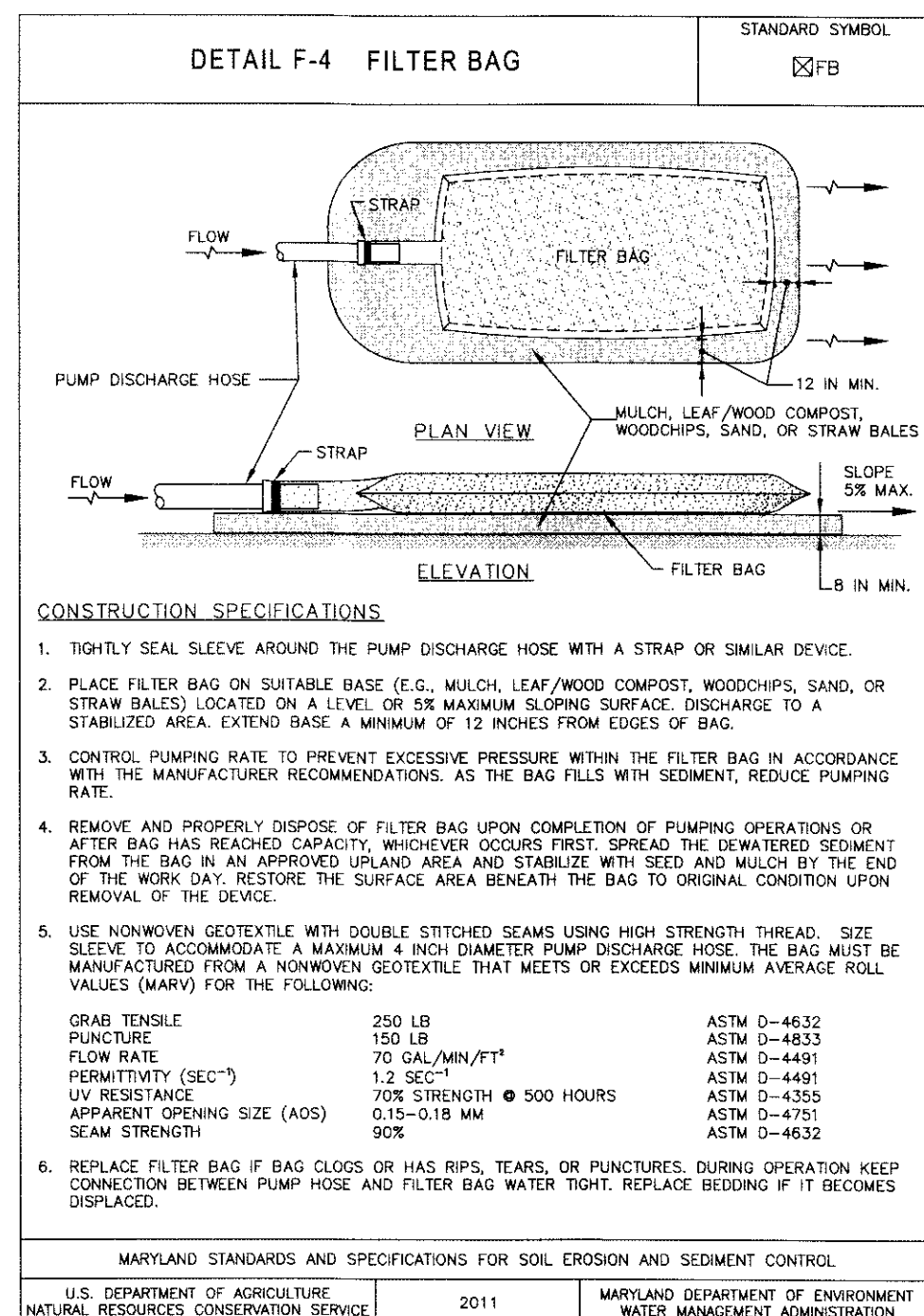
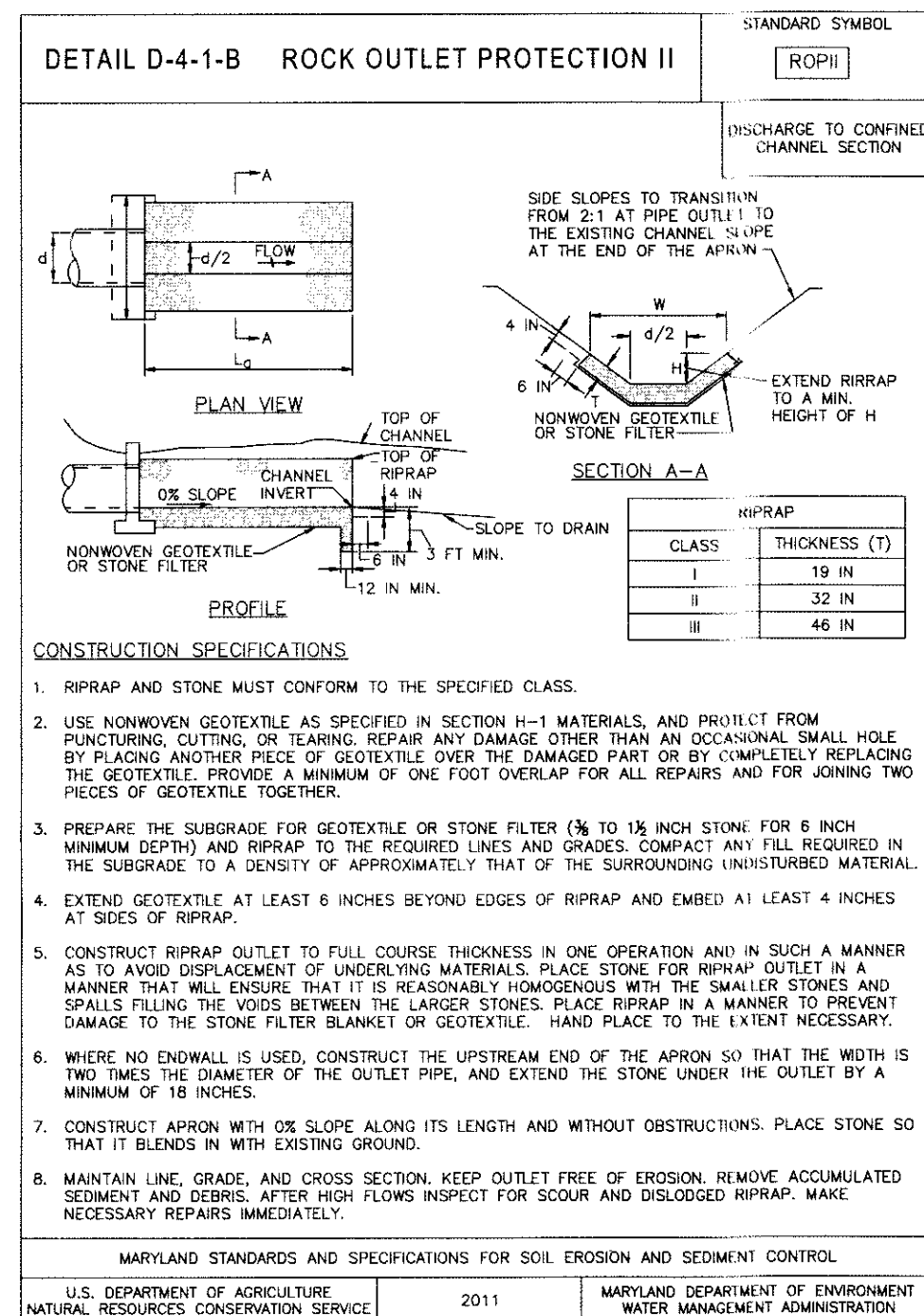
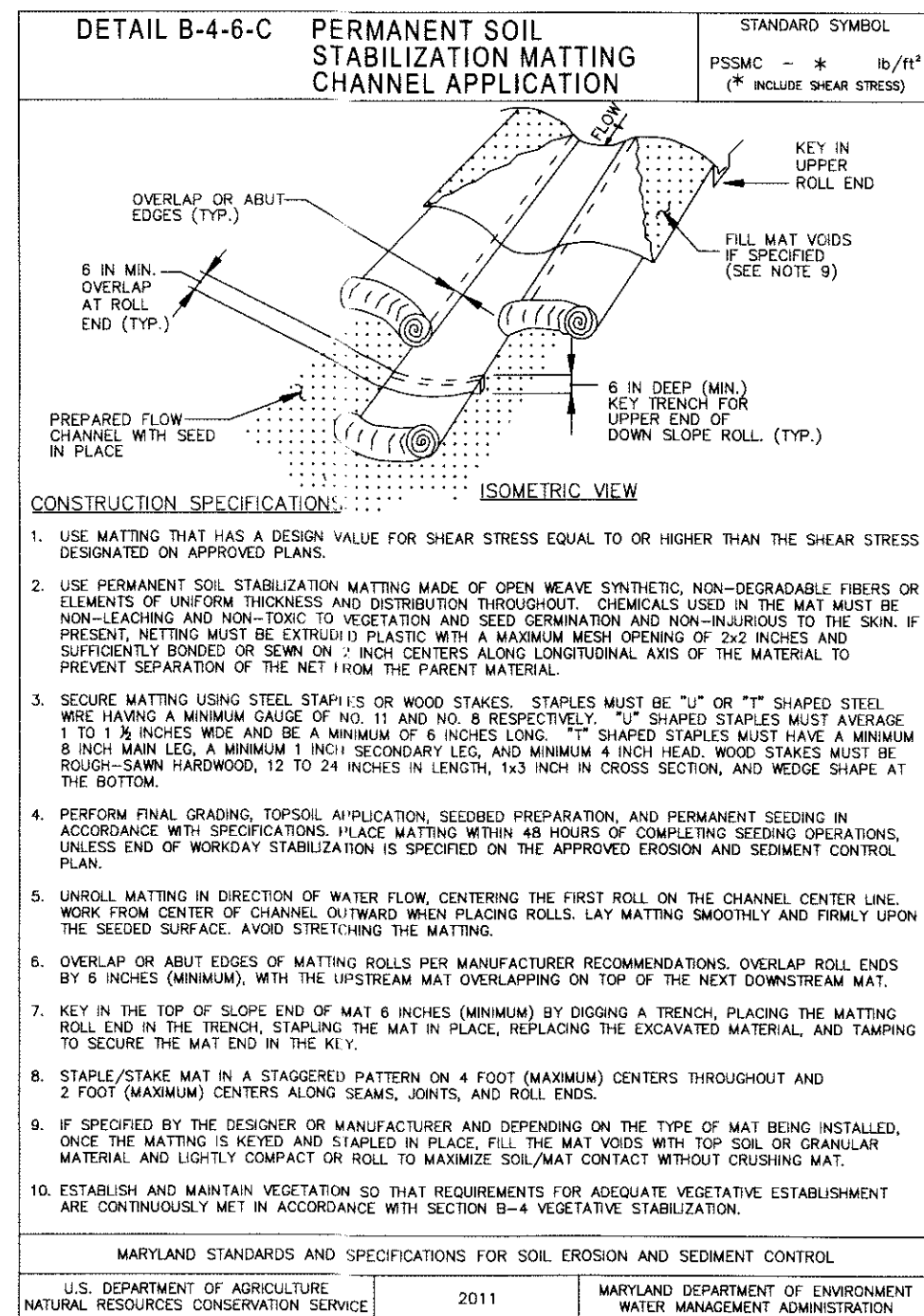
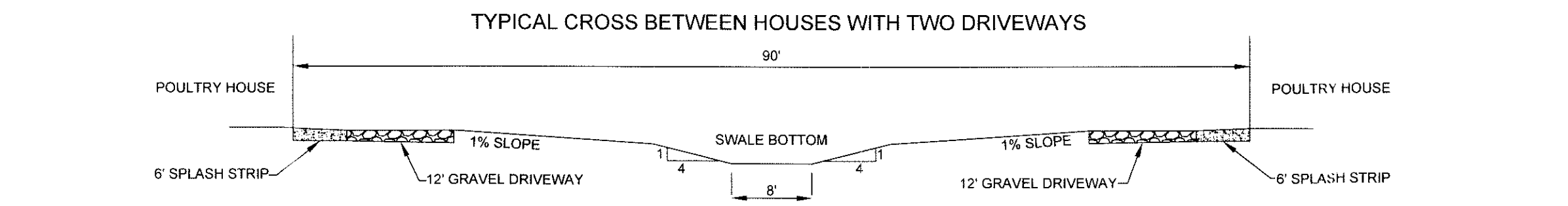
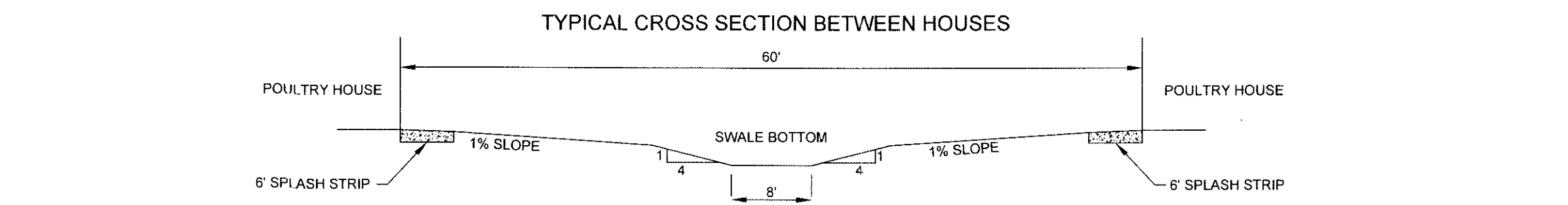
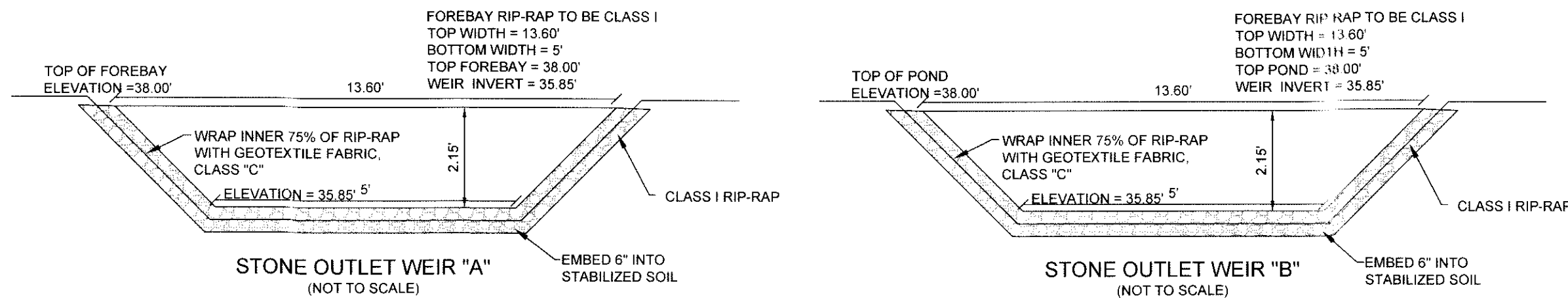
D. Temporary silt fence shall be placed immediately downstream of any disturbed area intended to remain disturbed for more than one day.

23. Where deemed appropriate by the engineer or inspector, sediment basins and traps may need to be surrounded with an approved safety fence. The fence must conform to local ordinances and regulations. The developer or owner shall check with local building officials on applicable safety requirements. Where safety fence is deemed appropriate and local ordinances do not specify fencing sizes and types, the following shall be used as a minimum standard: The safety fence must be made of welded wire and be at least 42 inches high, have posts spaced no farther apart than 8 feet, have mesh openings no greater than 2 inches in width and 4 inches in height with a minimum of 14 gauge wire. Safety fence must be maintained and in good condition at all times.

24. Off-site spoil or borrow areas on State or federal property have prior approval by VMA and other applicable State, federal, and local agencies; otherwise approval must be granted by the local authorities. All waste and borrow areas off-site must be protected by sediment control measures and stabilized.

25. Sites where infiltration devices are used for the control of stormwater, extreme care must be taken to prevent runoff from unstabilized areas from entering the structure during construction. Sediment control devices placed in infiltration areas must have bottom elevations at least 2 (2) feet higher than the finish grade bottom elevation of the infiltration practice. When converting a sediment trap to an infiltration device, all accumulated sediment must be removed and disposed of prior to final grading of infiltration device.

26. When a storm drain system outfall is directed to a sediment trap or sediment basin and the system is to be used for temporarily conveying sediment laden water, all storm drain inlets in non-sump areas shall have temporary asphalt berms constructed at the time of base paving to direct gutter flow into the inlets to avoid surcharging and overflow of inlets in sump areas.



DETAILS AND NOTES
OF THE LANDS OF
KAYANI FARMS, LLC
TAX MAP 85, GRID 7, PARCEL 145, LOT 2
FIFTEENTH DISTRICT, CAROLINE COUNTY, MARYLAND
PREPARED FOR MAQBOOL A. KAYANI AND MARYAM MANSOOR

RAUCH
the
engineering design &
development services
office: 410.770.3681 | fax: 410.770.3687
email: design@rauch.com | web: www.rauch.com
address: 110 N Washington St., Eason, MD 21031
SEAL 11/01/18 DATE

MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL			MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL		
U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION	U.S. DEPARTMENT OF AGRICULTURE NATURAL RESOURCES CONSERVATION SERVICE	2011	MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION
REVISIONS			REVISIONS		
REV #	DATE	DESCRIPTION	REV #	DATE	DESCRIPTION
1	8/31/17	PER SOIL CONSERVATION DISTRICT COMMENTS	1	8/31/17	PER SOIL CONSERVATION DISTRICT COMMENTS
2	10/26/17	PER SOIL CONSERVATION DISTRICT COMMENTS	2	10/26/17	PER SOIL CONSERVATION DISTRICT COMMENTS
3	11/01/18	PER SOIL CONSERVATION DISTRICT COMMENTS	3	11/01/18	PER SOIL CONSERVATION DISTRICT COMMENTS
DATE: MARCH 2017			DATE: MARCH 2017		
JOB NUMBER:			JOB NUMBER:		
SCALE:			SCALE:		
DRAWN BY: W. BONNETT			DRAWN BY: W. BONNETT		
DESIGNED BY: W. EWALD			DESIGNED BY: W. EWALD		
APPROVED BY: W. EWALD			APPROVED BY: W. EWALD		
FOLDER REF:			FOLDER REF:		
SHEET NO.: 4 OF 4			SHEET NO.: 4 OF 4		
FILE NO.:			FILE NO.:		