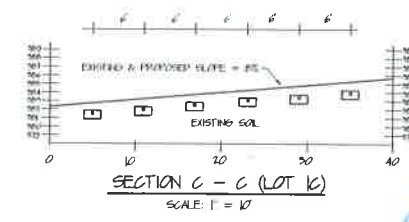
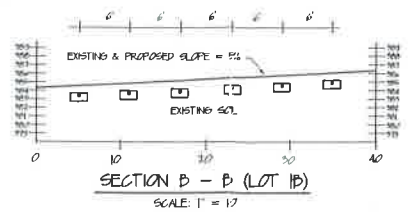


VICINITY MAP (NTS)

LEGEND

DEEP TEST HOLE	⊙
PROF. TEST HOLE	⊙
PROPERTY LINE	---
WATER WELL	⊙
EXISTING CONTOUR	- - -
PROPOSED CONTOUR	- - -
WOOD STAKE	⊙
SEPTIC TANK	⊙
DIST. BOX	⊙
DECKMARK	⊙
CATCH BASIN	⊙
CONVERT PIPE	---
STONE WALL	---
DOSING CHAMBER	⊙
OVER HEAD WIRES	---W---
GAS MAIN	---GM---
NAT GAS SVC LN	---NGS---



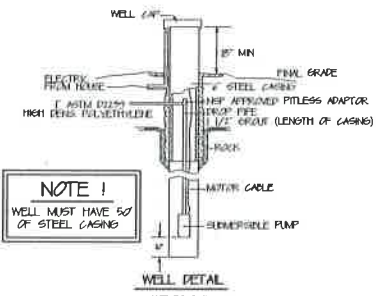
CALCULATIONS

FLOW RATE FOR A 3 BEDROOM HOME = 330 GAL / DAY
 APPLICATION RATE OF 6-7 MINUTE SOL = 10 GPD / SF
 REQUIRED TRENCH AREA = 330 GPD / 10 = 330 SF
 REQUIRED LENGTH OF 24" WIDE TRENCH = 330 SF / 3 FT = 110 LINEAL FEET
 PROPOSED TRENCH = 5 LATERALS @ 50 FT EACH = 250 LINEAL FEET

FLOW RATE FOR A 4 BEDROOM HOME = 440 GAL / DAY
 APPLICATION RATE OF 6-7 MINUTE SOL = 10 GPD / SF
 REQUIRED TRENCH AREA = 440 GPD / 10 = 440 SF
 REQUIRED LENGTH OF 24" WIDE TRENCH = 440 SF / 3 FT = 147 LINEAL FEET
 PROPOSED TRENCH = 6 LATERALS @ 50 FT EACH = 300 LINEAL FEET

SOL DATA

SOL TESTS PERFORMED ON 8/18/10G BY CARL AIKEN	
DEEP TEST HOLE # 1	0' - 11" TOPSOIL / HEAVY ROOT MASS
1' - 42" SILTY COARSE GRAVEL / WELL DRAINED	TOTAL DEPTH = 42" NO GROUND WATER
DEEP TEST HOLE # 2	0' - 11" TOPSOIL / HEAVY ROOT MASS
1' - 45" SILTY COARSE GRAVEL / WELL DRAINED	TOTAL DEPTH = 45" NO GROUND WATER
PERCOLATION TEST HOLE # 1	1" IN 6 MINUTES
PERCOLATION TEST HOLE # 2	1" IN 7 MINUTES
DESIGN BASED ON 45" USABLE SOIL / CONVENTIONAL	
SOL TESTS PERFORMED ON 8/18/10G BY CARL AIKEN	
DEEP TEST HOLE # 1	0' - 10" TOPSOIL / HEAVY ROOT MASS
10" - 40" SILTY COARSE GRAVEL / WELL DRAINED	TOTAL DEPTH = 40" NO GROUND WATER
DEEP TEST HOLE # 2	0' - 11" TOPSOIL / HEAVY ROOT MASS
11" - 42" SILTY COARSE GRAVEL / WELL DRAINED	TOTAL DEPTH = 42" NO GROUND WATER
PERCOLATION TEST HOLE # 1	1" IN 6 MINUTES
PERCOLATION TEST HOLE # 2	1" IN 6 MINUTES
DESIGN BASED ON 45" USABLE SOIL / CONVENTIONAL	

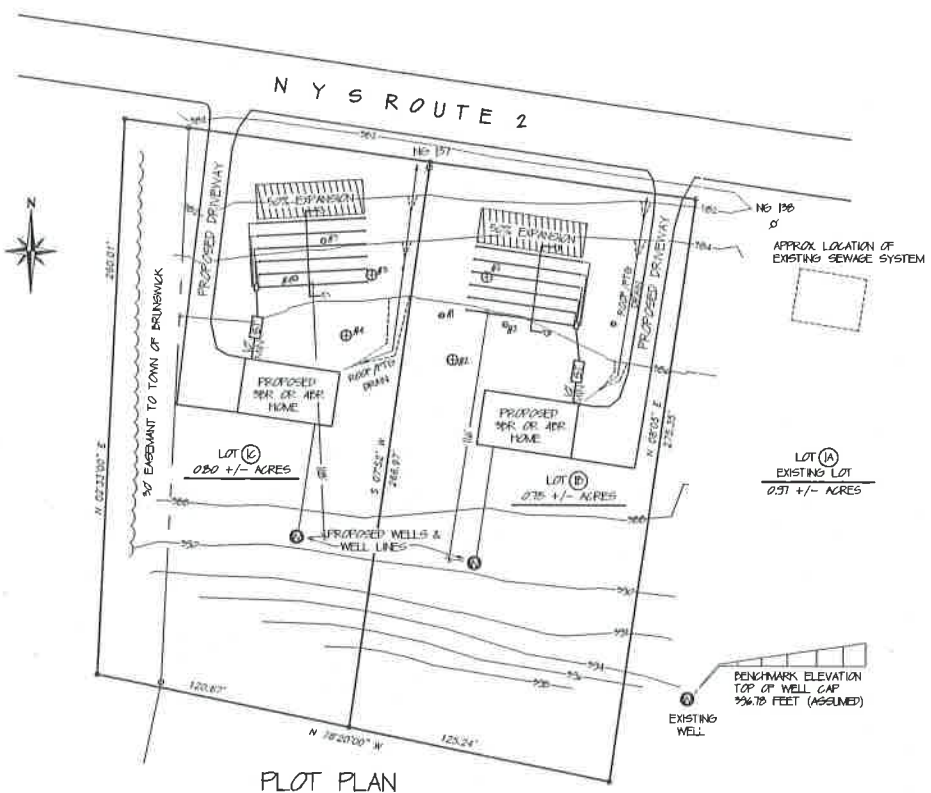


WELL DETAIL
NOT TO SCALE

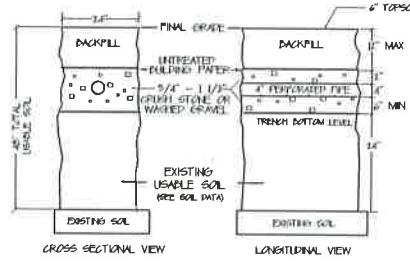
WATER SUPPLY NOTES

- ROHD ACCEPTANCE OF RESIDENTIAL WELLS SHALL BE BASED UPON THE FOLLOWING:
- WELL CONSTRUCTION IN ACCORDANCE WITH APPENDIX 5-D OF THE NEW YORK STATE SANITARY CODE
 - A WELL LOG COMPLETED BY A WELL DRILLER REGISTERED WITH NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
 - A MINIMUM WELL YIELD OF 5 GPM OR TOTAL YIELD AND STORAGE IN ACCORDANCE WITH APPLICABLE NEW YORK STATE DOH RECOMMENDATIONS
 - DISINFECTION, PRESSURE AND LEAK TESTING OF THE WELL AND APPURTENANCES IN ACCORDANCE WITH CURRENT NYMA PROCEDURES
 - A SATISFACTORY BACTERIOLOGICAL EXAMINATION OF THE WELL WATER FROM A SAMPLE TESTED BY A NYS CERTIFIED LAB AND SUBMITTED TO THE RENSSELAIR COUNTY HEALTH DEPT.

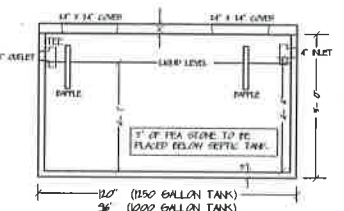
PROPOSED WELL MUST NOT BE IN THE GREAT PATH OF RUNOFF FROM ANY SEWAGE SYSTEM AREA AND MUST BE 150 FT FROM ANY SEWAGE SYSTEM. PROPOSED WELL MUST ALSO BE A MIN. OF 10 FT FROM SEPTIC TANK.



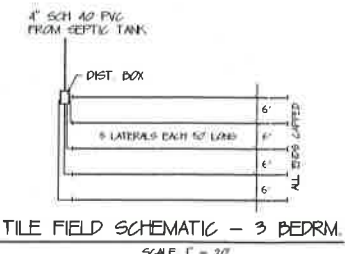
PLOT PLAN
SCALE: 1" = 40'



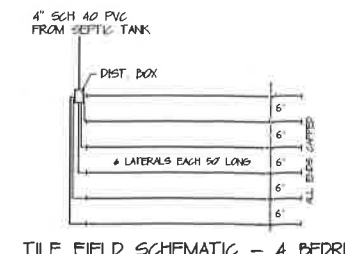
TRENCH DETAIL
[NOT TO SCALE]



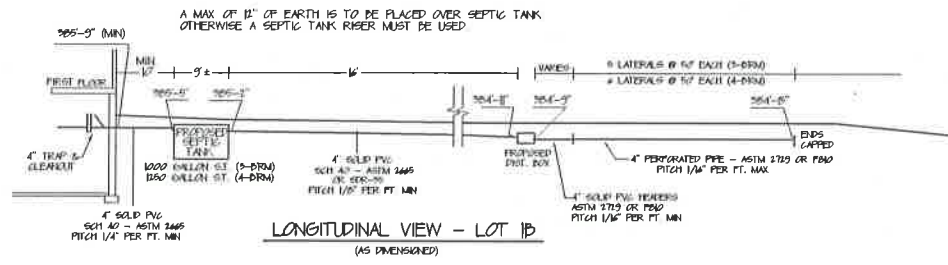
SEPTIC TANK SCHEMATIC
1200 / 1200 GALLON CAPACITY [SEWAGELESS]
AVAILABLE FROM MAJOR CONCRETE PRODUCTS [200-495]



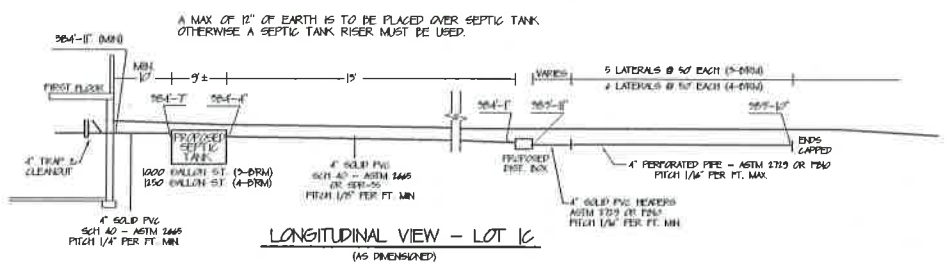
TILE FIELD SCHEMATIC - 3 BEDRM.
SCALE: 1" = 20'



TILE FIELD SCHEMATIC - 4 BEDRM.
SCALE: 1" = 20'



LONGITUDINAL VIEW - LOT 1B
(AS DIMENSIONED)



LONGITUDINAL VIEW - LOT 1C
(AS DIMENSIONED)

Required Notes for Conventional Systems

- Sanitary facilities may be constructed only after a Rensselaer County Department of Health (ROHD) "Permit to Construct" has been issued.
 - These facilities shall not be placed in operation until a ROHD "Certificate of Completion" has been issued. Contact the designated ROHD representative regarding the procedures.
 - There shall be no deviation from the sewage system plans during construction without prior approval of a licensed design professional (LDP is an Engineer, Exempt Surveyor, or Architect, licensed to practice in the State of New York), and the ROHD. Any significant sewage system modifications must be approved in writing prior to implementation.
 - This system is designed for a 3 OR 4 bedroom house. It is not designed to allow installation of a food disposer or spa tub.
 - No roof, floor, footing, cooling system, or water softener backwash drains are to be connected to this system. All such discharges are to be directed away from the absorption field as shown on the plans.
 - Prior to excavation, consult the Underground Facilities Protective Organization.
 - Any electrical equipment installed in accordance with this plan must be compliant with the NYS Uniform Building Code.
- II. Sewage System Notes**
- The materials specified on these plans, or equal, must be utilized unless alternatives are accepted and approved in writing by a LDP and the ROHD. Follow all manufacturers' instructions for component installation.
 - Proposed site grading shown on these plans is an integral part of the ROHD plan approval. Any changes to the proposed grading affecting the wastewater absorption area in any way SHALL be approved by the LDP and the ROHD prior to implementation.
 - A LDP shall supervise system installation; certify that the construction followed the approved plan; furnish an "as built" plan; and apply to the ROHD for a "Certificate of Completion".
 - No existing or proposed water supply or sewage treatment facilities are located within 200 feet of the boundaries of this project except as specifically noted on the plan.
 - No vehicular parking or traffic circulation shall be allowed on any portion of the completed sewage treatment system except as specifically provided for and noted on the plan.
 - A copy of the approved plan, including "As Built" dimensions, shall be provided to the purchaser of the lot or house and to the ROHD.
- C. Absorption Field Protection**
- The contractor shall protect the area(s) where the absorption system is to be constructed to preclude disturbance or compaction of the natural soil. Except as needed to install distribution piping, and spread topsoil and seed, no construction equipment is to run over the area and it is not to be used for material stockpiling or storage. Do not strip topsoil from the absorption area. FAILING TO FOLLOW THIS INSTRUCTION MAY RESULT IN THE SUSPENSION OF ROHD APPROVAL AND REQUIRE RETESTING OF THE IN - PLACE SOILS TO INSURE THAT THEY STILL MEET THE REQUIRED SYSTEM DESIGN PARAMETERS.
- D. Required Inspections**
- Site inspections of sanitary facility construction shall be conducted jointly by a LDP and the designated ROHD representative as follows:
 - During design, prior to plan approval / deep test pits and native soil percolation testing
 - Prior to backfilling wastewater distribution system, i.e. tank, distribution box, absorption field piping, pump or siphon system, and during pump or siphon system calibration.
 - After final grading and seeding

REV	DATE	RENSSELAIR COUNTY HEALTH APPROVAL
1	4/4/17	

SHEET 1 OF 2
SEWAGE SYSTEM DESIGN - CONVENTIONAL

CHARLES FARRELL "LOT 1" SUBDIVISION

NYS RTE 3
TAX MAP # 101-2-101













TOWN OF BRUNSWICK COUNTY OF RENSSELAIR





DATE: 3/4/17 SCALE AS SHOWN

AIKEN ENGINEERING
 CARL R. AIKEN, P.E. @ 287 MANNIX ROAD @ EAST GREENBUSH, NY 12045
 (518) 283-7749 @ FAX: (518) 375-7029 @ EMAIL: CARL.AIKEN@GMAIL.COM

BOUNDARY INFORMATION ON THIS PLOT PLAN WAS OBTAINED FROM A SURVEY MAP PREPARED BY DUAN R. HOLBRIITER P.L.S. DATED 8/18/10G

LEGEND

- DEEP TEST HOLE 
- PERC. TEST HOLE 
- PROPERTY LINE 
- EXISTING CONTOUR 
- PROPOSED CONTOUR 
- WOOD STAKE 
- SEPTIC TANK 
- DIST. BOX 
- BENCHMARK 
- CATCH BASIN 
- CULVERT PIPE 
- STONE WALL 

- DOSING CHAMBER 
- OVER HEAD WIRES 
- GAS MAIN 
- NAT GAS SVC LN 

PROPOSED SWALES
 INSTALL CHECK DAMS AT EVERY TWO FOOT DROP IN SWALE. CHECK DAMS WILL BE TWO FEET HIGH WITH A WEIR AT 1'-6" FROM SWALE BOTTOM.

Construction Entrance
 See Note 4A on original esc plan for all driveways.

CONSTRUCTION PHASE:


PHASE 1: EACH RESIDENTIAL LOT WILL BE CONSTRUCTED AND WILL HAVE ITS OWN CONSTRUCTION ACCESS AND INDIVIDUAL SEDIMENT CONTROLS UNTIL THE SITE HAS BEEN STABILIZED. KEEP OVERALL DISTURBANCE OF ALL LOTS UNDER 5 ACRES AT ONE TIME. INDIVIDUAL LOTS WILL BE CONSTRUCTED WHEN THE MARKET ALLOWS.

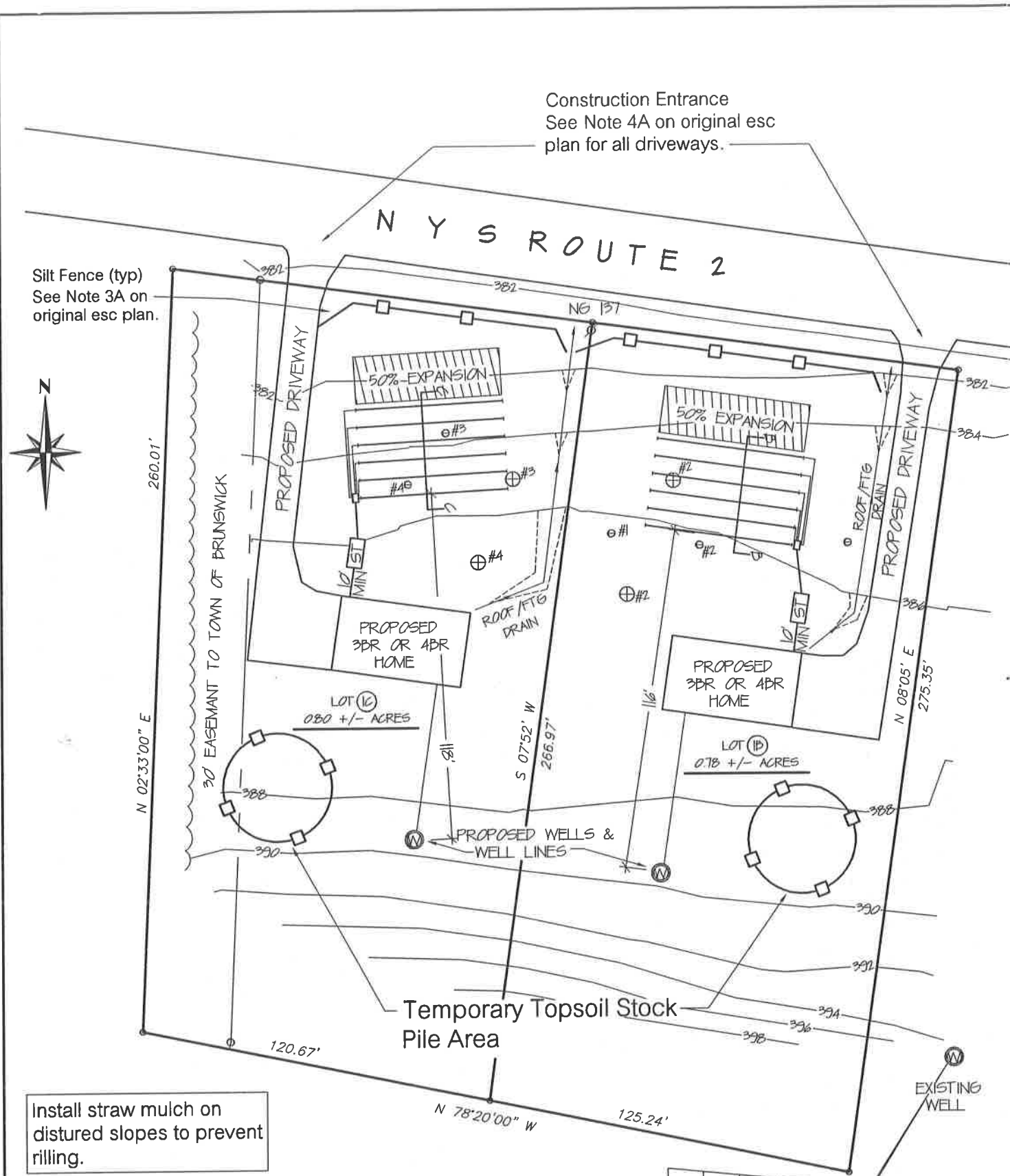
THIS PLAN IS AN ADDENDUM TO AN EXISTING EROSION AND SEDIMENT CONTROL PLAN FOR THE "CHARLES FARRELL 5-LOT SUBDIVISION" DATED 2/2/16.

EROSION AND SEDIMENT CONTROL PLAN

SHEET 2 OF 2

REV DATE

	CHARLES FARRELL "LOT 1" SUBDIVISION	
	NYS RTE 2 TAX MAP # 102-2-101	
	TOWN OF BRUNSWICK	COUNTY OF RENSSELAER
	DATE: 2/2/16	SCALE: AS SHOWN
	 CARL R. AIKEN, P.E. □ 287 MANNIX ROAD □ EAST GREENBUSH, NY 12061 (518) 283-7749 □ FAX: (518) 375-7029 □ EMAIL: CARL.AIKEN@GMAIL.COM	



Silt Fence (typ)
 See Note 3A on original esc plan.



Install straw mulch on distured slopes to prevent rilling.

See Typical Home Erosion Control Plan on original esc plan. Each lot to have concrete washout area.

PLOT PLAN
 SCALE: 1" = 40'

BENCHMARK ELEVATION
 TOP OF WELL CAP
 396.78 FEET (ASSUMED)