

DESIGN NOTES

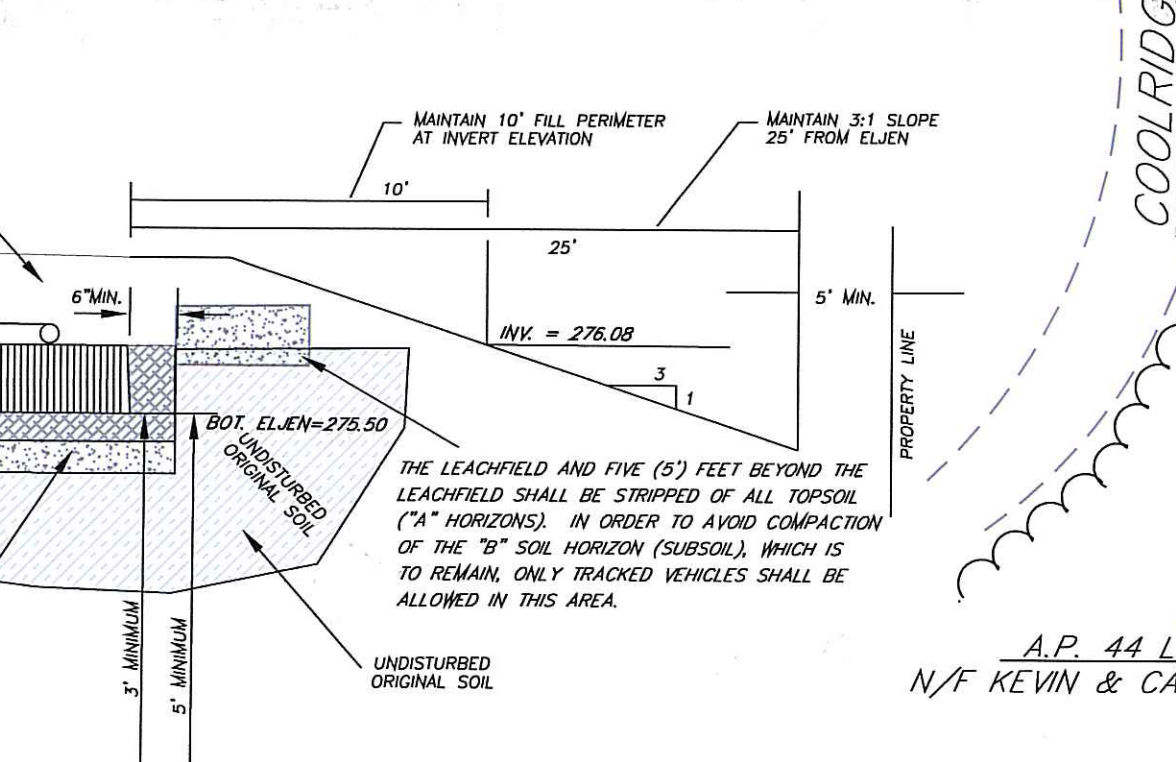
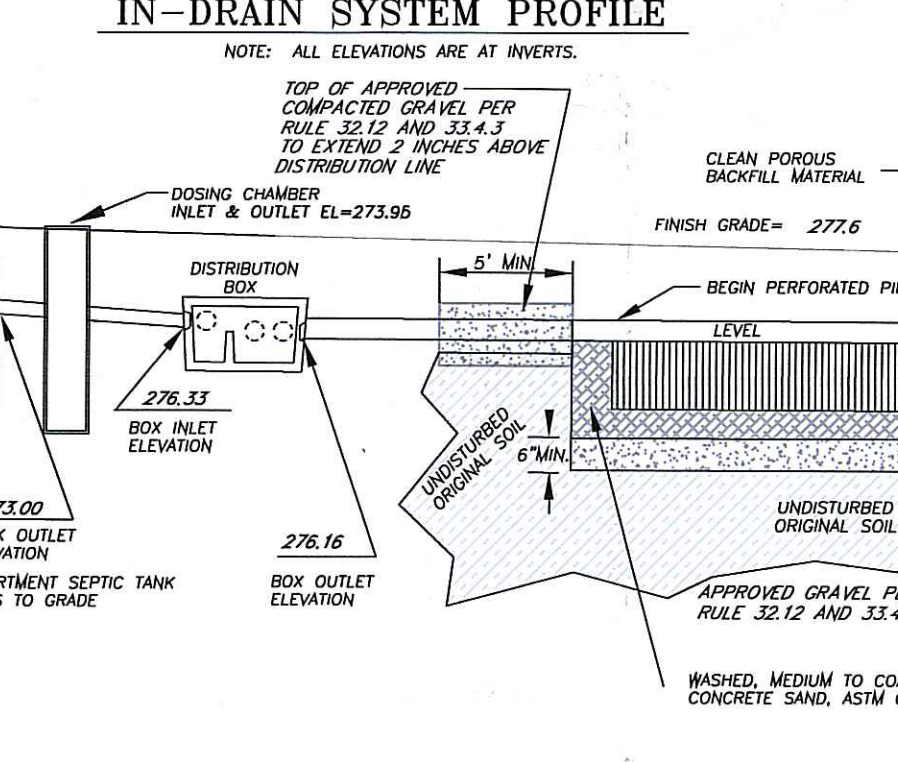
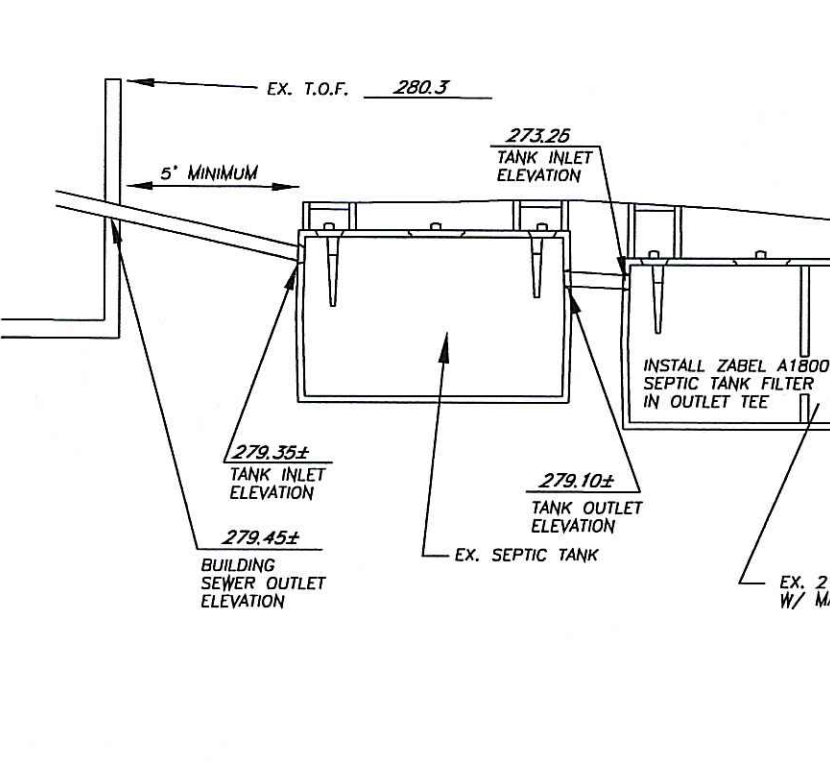
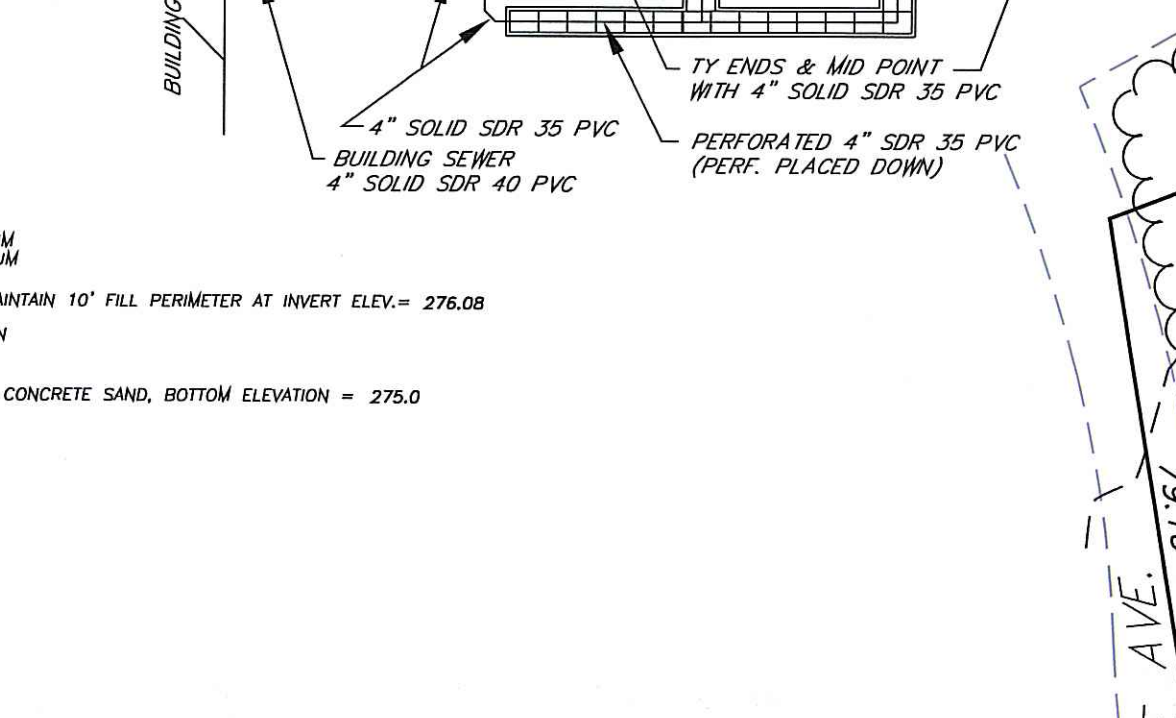
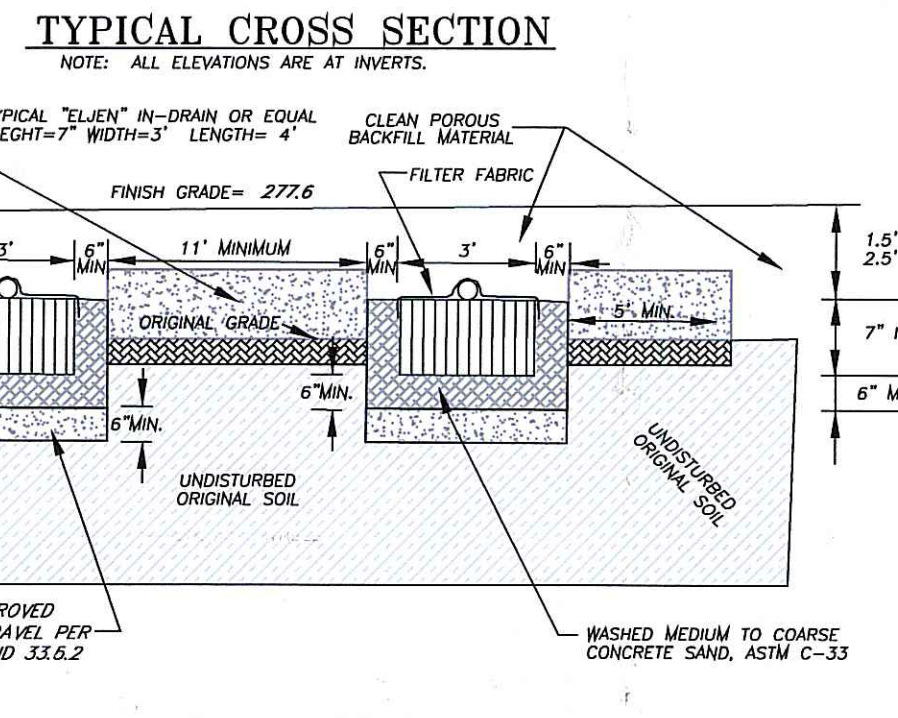
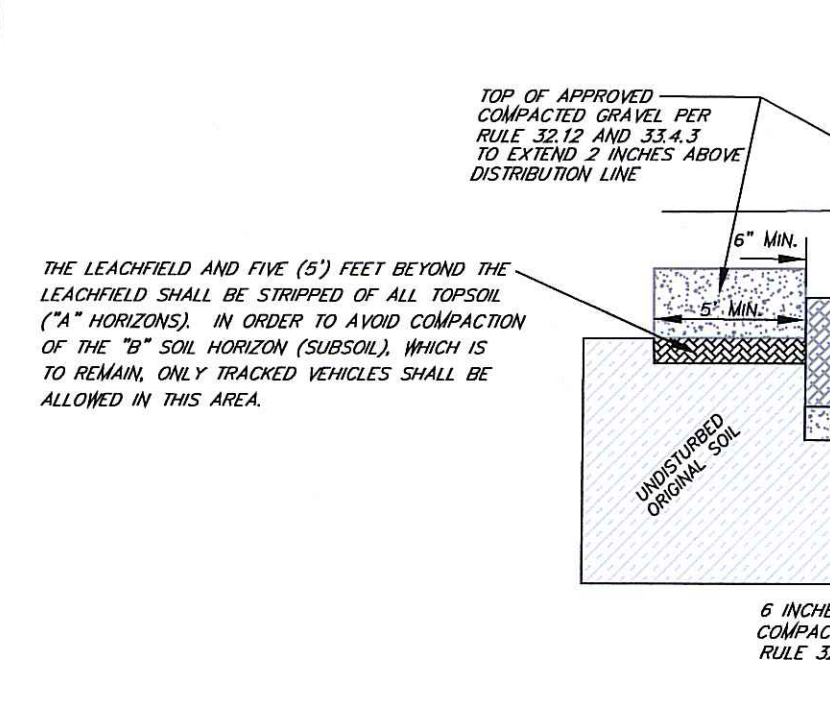
- 1) ALL JOINTS SEALED WITH BUTYL RUBBER SEALANT
- 2) ALL INLETS AND OUTLETS HAVE STATE-APPROVED SEALS
- 3) INLET AND OUTLET MANHOLES 18" DIA.
- 4) INLET AND OUTLET MANHOLES 18" DIA.
- 5) CONCRETE STRENGTH 4000 PSI MIN. 28 DAYS

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IN-DRAIN NOTES

- 1) ALL BRUSH AND TREES TO BE REMOVED A MINIMUM 10' A MINIMUM 10' DISTANT FROM LEACHFIELD AREA.
- 2) THE LEACHFIELD AND FIVE (5') FEET BEYOND THE LEACHFIELD SHALL BE STRIPPED OF ALL TOPSOIL ("A" HORIZONS). IN ORDER TO AVOID COMPACTION OF THE "B" SOIL HORIZON (SUBSOIL), WHICH IS TO REMAIN, ONLY TRACKED VEHICLES SHALL BE ALLOWED IN THIS AREA. PROPERLY COMPACTED GRAVEL THAT MEETS THE REQUIREMENTS OF RULE 32.12 SHALL BE PLACED THROUGHOUT THE EXCAVATION TO AN ELEVATION THAT WILL BE 2 INCHES ABOVE THE TOP OF THE DISTRIBUTION LINES. DISPERSED TRENCHES SHALL BE EXCAVATED OUT OF THE COMPACTED GRAVEL. THERE SHALL BE A MINIMUM SIX (6) INCH GRAVEL BASE MEETING THE REQUIREMENTS OF RULE 32.12 BELOW THE SAND.
- 3) PLACE A 6" MINIMUM LEVEL RAKED CONCRETE SAND BED OVER APPROVED GRAVEL BACKFILL TO ELEVATION = 275.0
- 4) PLACE IN-DRAINS, STRIPE SIDE UP, END TO END ON THE LEVEL RAKED SAND BED.
- 5) PLACE 4" PERFORATED PIPE OVER STRIPE ON IN-DRAINS, CONNECT MID-POINTS ON ROWS 40' OR LONGER.
- 6) SECURE PIPE WITH ONE ELEN CLAMP PER IN-DRAIN. FORCE CLAMP THROUGH IN-DRAIN AND INTO THE SAND BED.
- 7) INSTALL ELEN COVER FABRIC (FILTER FABRIC) OVER ROWS OF IN-DRAINS, DRAP FABRIC STRAIGHT DOWN OVER PIPE AND SIDES OF IN-DRAINS, SECURE WITH HAND SHOVELED SAND. DO NOT BLOCK HOLES IN PERFORATED PIPE.
- 8) PLACE CONCRETE SAND A MINIMUM OF 6 INCHES AROUND THE SIDES OF THE IN-DRAINS.
- 9) BACKFILL WITH CLEAN MATERIAL DEVOID OF LARGE ROCKS TO A MINIMUM OF 1.5' AND MAXIMUM OF 2.5' ABOVE INVERT.
- 10) MAINTAIN INVERT ELEVATION 10 FEET DISTANT TO LEACHFIELD AREA IN ALL DIRECTIONS TO EL. 276.08 MINIMUM UNLESS NOTED.
- 11) INSTALL ZABEL A1800 RESIDENTIAL SEPTIC TANK EFFLUENT FILTER (OR EQUAL) INSIDE SEPTIC TANK OUTLET TEE.

CONSTRUCTION NOTES:
ALL CONSTRUCTION TO BE IN ACCORDANCE WITH RIDEM RULES AND REGULATIONS OF JANUARY 1, 2008, AS AMENDED.

SEPTIC TANK NOTE:
2 COMPARTMENT SEPTIC TANK TO BE PLACED ON STABLE, LEVEL BASE WITH INLET & OUTLET TEES WITH MANHOLES PLACED TO GRADE.

DISTRIBUTION BOX NOTE:
H-20 WHEEL LOADING DISTRIBUTION BOX WITH BAFFLE TO BE PLACED ON STABLE, LEVEL BASE WITH ACCESS COVER TO GRADE. 3" S.F. MINIMUM BOTTOM AREA REQUIRED.

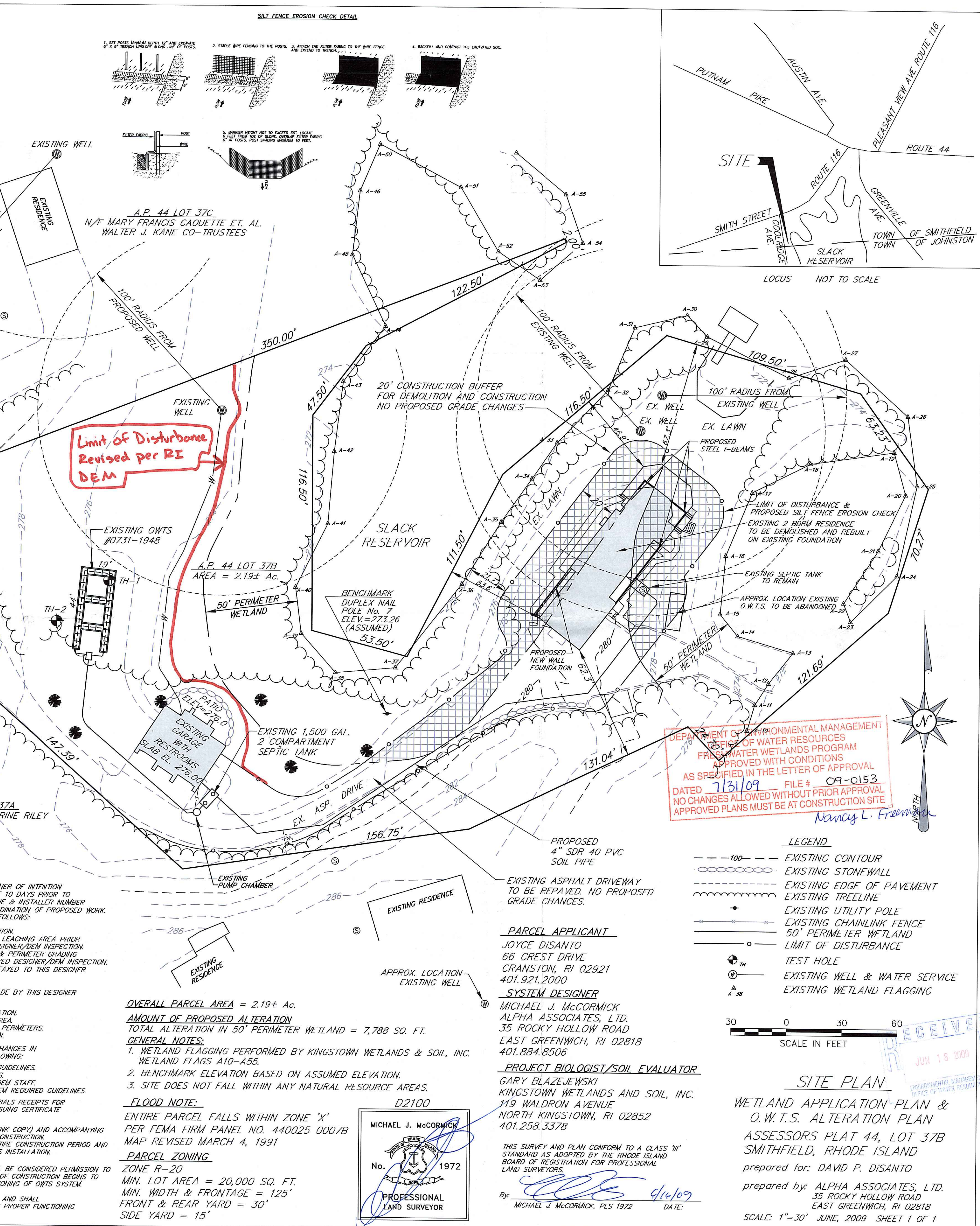
LEACHFIELD AREA CALCULATIONS:

TOTAL # OF BEDROOMS	=	5	TOTAL GAL./DAY
5	x	115 GAL./BEDROOM	= 575
SOIL CATEGORY	=	1	LOADING RATE
1	/	0.70	= 0.822
TOTAL L.F. OF IN-DRAIN = 120		x	7 S.F./F.T. = 840

OWTS NOTES & CONDITIONS:
NOT WATER SERVICE AREA; WELL REQUIRED. THERE ARE NO PROPOSED OR EXISTING SEPTIC SYSTEMS WITHIN 200' OF PROPOSED WELL, EXCEPT AS SHOWN.

CLASS II DESIGNER REQUIREMENTS:

- A. THE APPLICANT IS REQUIRED TO NOTIFY THIS DESIGNER OF INTENTION TO START CONSTRUCTION OR GRADING OF THIS SITE 10 DAYS PRIOR TO START OF SITE WORK. THE CONTRACTOR'S TELEPHONE & INSTALLER NUMBER SHALL BE FURNISHED TO THIS DESIGNER FOR COORDINATION OF PROPOSED WORK. THE FOLLOWING MINIMUM REQUIRED ITEMS ARE AS FOLLOWS:
 1. 24 HOUR NOTICE OF START OF CONSTRUCTION.
 2. NOTICE FOR INSPECTION OF OWTS BOTTOM LEACHING AREA PRIOR TO 12 NOON THE DAY BEFORE DESIRED DESIGNER/DEM INSPECTION.
 3. NOTICE FOR INSPECTION OF COMPONENTS & PERIMETER GRADING PRIOR TO 12 NOON THE DAY BEFORE DESIRED DESIGNER/DEM INSPECTION.
 4. ALL DEM INSPECTION SHEETS ARE TO BE FAXED TO THIS DESIGNER WITHIN 24 HOURS OF RECEIPT.
- B. SITE LAYOUT AND REQUIRED INSPECTIONS TO BE MADE BY THIS DESIGNER FOR THE FOLLOWING WORK ITEMS:
 1. FOUNDATION & OWTS LOCATION AND ELEVATION.
 2. INSPECTION OF OWTS BOTTOM LEACHING AREA.
 3. INSPECTION OF OWTS COMPONENTS & PERIMETERS.
 4. FINAL COVER & WELL LOCATION INSPECTION.
- C. THE APPLICANT SHALL BE RESPONSIBLE FOR ANY CHANGES IN THE SHOWN DESIGN AND INCLUDE ANY OF THE FOLLOWING:
 1. NEW APPLICATIONS, AS REQUIRED BY DEM GUIDELINES.
 2. AS-BUILT LOCATIONS AND REQUIRED PLANS.
 3. COMMUNICATIONS OR COORDINATION WITH DEM STAFF.
 4. CHANGES IN INSTALLATION NOT MEETING DEM REQUIRED GUIDELINES.
- D. THE APPLICANT SHALL PROVIDE DESIGNER WITH MATERIALS RECEIPTS FOR ALL CONSTRUCTION MATERIALS PRIOR TO DESIGNER ISSUING CERTIFICATE OF CONSTRUCTION.
- E. THE OWNER SHALL FURNISH ORIGINAL APPLICATION (PINK COPY) AND ACCOMPANYING PLAN APPROVAL TO INSTALLER PRIOR TO START OF CONSTRUCTION. SAID INFORMATION SHALL REMAIN ON SITE DURING ENTIRE CONSTRUCTION PERIOD AND RETURNED TO THE OWNER UPON COMPLETION OF OWTS INSTALLATION.
- F. OWNER / APPLICANT'S SIGNING OF APPLICATION SHALL BE CONSIDERED PERMISSION TO INSPECT THE ABOVE SITE AT ANY TIME AFTER START OF CONSTRUCTION PERMITS TO ENSURE PROPER INSTALLATION PROCEDURES & FUNCTIONING OF OWTS SYSTEM.
- G. THE ABOVE INFORMATION ARE MINIMUM REQUIREMENTS AND SHALL BE REVISED AS THE DESIGNER DEEMS NECESSARY FOR PROPER FUNCTIONING OF THE SHOWN OWTS DESIGN.



DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
BUREAU OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
FIRM APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED 7/31/09 FILE # 09-0153
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE
Nancy L. Fromm

LEGEND

- 100' --- EXISTING CONTOUR
- EXISTING STONEWALL
- EXISTING EDGE OF PAVEMENT
- EXISTING TREELINE
- EXISTING UTILITY POLE
- EXISTING CHAINLINK FENCE
- 50' PERIMETER WETLAND
- LIMIT OF DISTURBANCE
- TEST HOLE
- EXISTING WELL & WATER SERVICE
- EXISTING WETLAND FLAGGING

PARCEL APPLICANT
JOYCE DISANTO
66 CREST DRIVE
CRANSTON, RI 02921
401.921.2000

SYSTEM DESIGNER
MICHAEL J. McCORMICK
ALPHA ASSOCIATES, LTD.
35 ROCKY HOLLOW ROAD
EAST GREENWICH, RI 02818
401.884.8506

PROJECT BIOLOGIST/SOIL EVALUATOR
GARY BLAZEJEWSKI
KINGSTOWN WETLANDS AND SOIL, INC.
119 WALDRON AVENUE
NORTH KINGSTOWN, RI 02852
401.258.3378

SCALE IN FEET
0 30 60

SITE PLAN
WETLAND APPLICATION PLAN &
O.W.T.S. ALTERATION PLAN
ASSESSORS PLAT 44, LOT 37B
SMITHFIELD, RHODE ISLAND
prepared for: DAVID P. DISANTO
prepared by: ALPHA ASSOCIATES, LTD.
35 ROCKY HOLLOW ROAD
EAST GREENWICH, RI 02818
SCALE: 1"=30' JUNE, 2009 SHEET 1 OF 1

D2100
MICHAEL J. McCORMICK
No. 1972
PROFESSIONAL
LAND SURVEYOR

OVERALL PARCEL AREA = 2.19± Ac.
AMOUNT OF PROPOSED ALTERATION
TOTAL ALTERATION IN 50' PERIMETER WETLAND = 7,788 SQ. FT.

GENERAL NOTES:

1. WETLAND FLAGGING PERFORMED BY KINGSTOWN WETLANDS & SOIL, INC. WETLAND FLAGS A10-A55.
2. BENCHMARK ELEVATION BASED ON ASSUMED ELEVATION.
3. SITE DOES NOT FALL WITHIN ANY NATURAL RESOURCE AREAS.

FLOOD NOTE:
ENTIRE PARCEL FALLS WITHIN ZONE 'X'
PER FEMA FIRM PANEL NO. 440025 0007B
MAP REVISED MARCH 4, 1991

PARCEL ZONING
ZONE R-20
MIN. LOT AREA = 20,000 SQ. FT.
MIN. WIDTH & FRONTAGE = 125'
FRONT & REAR YARD = 30'
SIDE YARD = 15'