

GENERAL NOTES:

- THIS PARCEL LIES WITHIN ZONE C - ZONE C = AREAS OF MINIMAL FLOODING - FOUND ON FLOOD INSURANCE RATE MAP COMMUNITY-PANEL NUMBER 445400 0002 B MAP REVISED: AUGUST 2, 1982.
- HORIZONTAL AND VERTICAL DATA ON THIS PLAN WAS OBTAINED FROM FIELD SURVEY BY MLC SURVEYING INC.
- TOTAL WETLAND DISTURBANCE PROPOSED = 4,760 S.F.
WETLAND DISTURBANCE WITHIN FLAGGED EDGE = 600 S.F.

REFERENCES:

- "PLAN OF LAND PREPARED FOR VRANIA L. COELHO"; CLASS I SURVEY OF A.P. 10 LOT 98A, DOUGLAS PIKE, BY MLC SURVEYING INC. 640 GEO. WASH. HWY. LINCOLN, RI (401) 334-0600 DATED APRIL 21, 2008.

LEACHFIELD DESIGN CALCULATION

- 4 BEDROOMS X 115 GALLONS PER BED/DAY = 460 GALLONS PER DAY
- PERC. RATE = 10 MIN. PER INCH = 0.70 GAL/S.F./DAY
- 460 GPD / 0.70 GAL/S.F./DAY = 658 S.F. LEACHING AREA REQUIRED
- 658 S.F. / 28 S.F. PER ELVEN UNIT = 24 ELVENS REQ'D
- TOTAL AREA PROVIDED = 672 S.F. > 658 S.F.

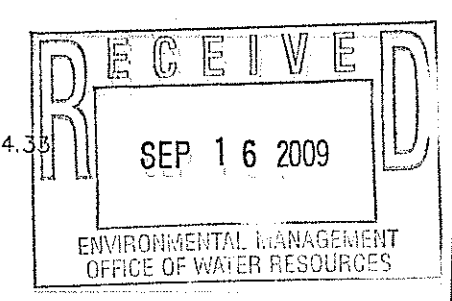
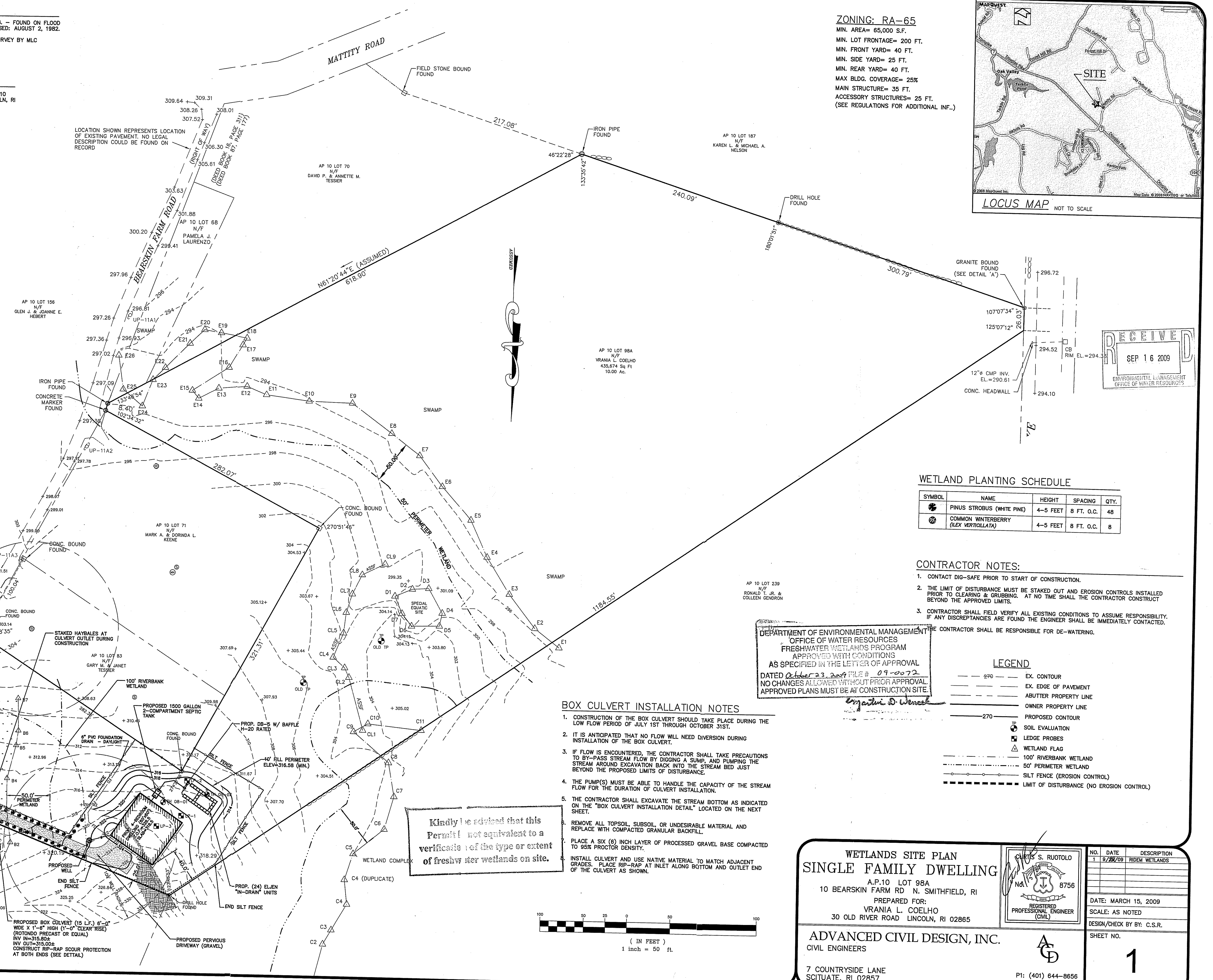
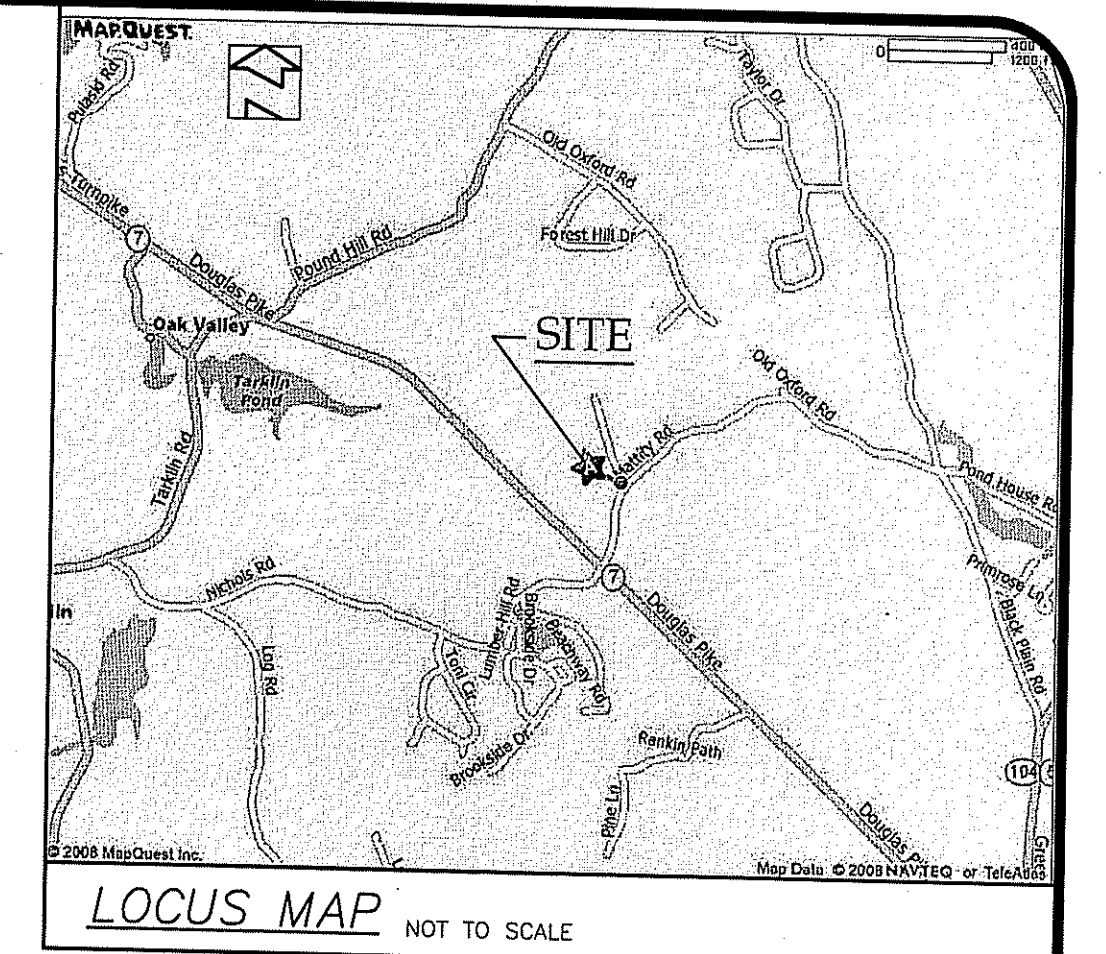
SOIL EROSION AND SEDIMENT CONTROL NOTES:

- SLOPES SHALL NOT BE LEFT UNATTENDED OR EXPOSED FOR EXCESSIVE PERIODS OF TIME SUCH AS THE INACTIVE WINTER SEASON.
- ALL DISTURBED SLOPES EITHER NEWLY CREATED OR CURRENTLY EXPOSED SHALL BE SEEDED OR PROTECTED.
- PLANTABLE SOIL SHALL HAVE A SANDY LOAM TEXTURE RELATIVELY FREE OF SUBSOIL MATERIAL, STONES, ROOTS, LUMPS OF SOIL, TREE LIMBS, TRASH OR CONSTRUCTION DEBRIS, AND SHALL CONFORM WITH RHODE ISLAND'S STANDARD SPECIFICATIONS, AS AMENDED.
- THE DESIGN MIX SHALL BE COMPRISED OF THE FOLLOWING:

| TYPE | LBS/ACRE |
|---------------------|----------|
| CREeping RED FESCUE | 75 |
| KENTUCKY BLUE GRASS | 15 |
| COLONIAL BENT GRASS | 5 |
| PERENNIAL RUE GRASS | 5 |
- EARLY SPRING OR LATE SUMMER SEEDING IS RECOMMENDED. LIME AND FERTILIZER AS REQUIRED BY SOIL TESTING TO COMPLEMENT OR UPGRADE EXISTING CONDITIONS. THE SEED MIX SHALL BE INOCULATED WITHIN 24 HOURS BEFORE MIXING AND PLANTING WITH APPROPRIATE INOCULUM FOR EACH VARIETY. THE RECOMMENDED SEEDING DATES ARE APRIL 1ST THROUGH JUNE 15TH AND AUGUST 15TH THROUGH SEPTEMBER 30TH.
- TEMPORARY TREATMENTS SHALL CONSIST OF NORTH AMERICAN GREEN S150 EROSION CONTROL BLANKET OR EQUAL. THEY SHALL BE INCORPORATED INTO THE WORK AS WARRANTED OR AS ORDERED BY THE ENGINEER.
- ALL TEMPORARY EROSION PROTECTION SHALL REMAIN IN PLACE UNTIL AS ACCEPTABLE STAND OF GRASS OR APPROVED GROUND COVER IS ESTABLISHED.
- ALL FILL SHALL BE THOROUGHLY COMPACTED UPON PLACEMENT IN STRICT CONFORMANCE WITH THE RHODE ISLAND STANDARD SPECIFICATION'S FOR ROAD AND BRIDGE CONSTRUCTION, LATEST EDITION.
- STOCKPILES OF TOPSOIL SHALL NOT BE LOCATED NEAR ANY WATERWAYS. THEY SHALL HAVE SIDE SLOPES NO GREATER THAN 2:1 AND SHALL BE TEMPORARILY SEEDED OR STABILIZED.
- THE CONSTRUCTION SUPERINTENDENT SHALL HAVE THE OVERALL RESPONSIBILITY FOR PLAN IMPLEMENTATION AND FOR SEEING THAT THE APPROPRIATE WORKERS ARE AWARE OF THE PROVISIONS OF THE PLAN. THE CONTRACTOR MUST REPAIR AND/OR RESEED ANY AREAS THAT DO NOT DEVELOP WITHIN A PERIOD OF SIX (6) MONTHS AND SHALL DO SO AT NO ADDITIONAL EXPENSE.
- MAXIMUM GRADED SLOPE TO BE 2:1 UNLESS NOTED OTHERWISE ON THE PLANS. IF 2:1 SLOPES APPEAR UNSTABLE, FOLLOW THESE INSTRUCTIONS USING AN EROSION CONTROL MAT/BLANKET FOR STABILITY.
- REFERENCE THE "RHODE ISLAND EROSION AND SEDIMENTATION CONTROL HANDBOOK" PREPARED BY USDA SOIL CONSERVATION SERVICE AS A GUIDE.

ZONING: RA-65

- MIN. AREA= 65,000 S.F.
- MIN. LOT FRONTAGE= 200 FT.
- MIN. FRONT YARD= 40 FT.
- MIN. SIDE YARD= 25 FT.
- MIN. REAR YARD= 40 FT.
- MAX BLDG. COVERAGE= 25%
- MAIN STRUCTURE= 35 FT.
- ACCESSORY STRUCTURES= 25 FT.
- (SEE REGULATIONS FOR ADDITIONAL INF..)



WETLAND PLANTING SCHEDULE

| SYMBOL | NAME | HEIGHT | SPACING | QTY. |
|--------|--|----------|------------|------|
| 🌲 | PINUS STROBUS (WHITE PINE) | 4-5 FEET | 8 FT. O.C. | 48 |
| 🍓 | COMMON WINTERBERRY (ILEX VERTICILLATA) | 4-5 FEET | 8 FT. O.C. | 8 |

CONTRACTOR NOTES:

- CONTACT DIG-SAFE PRIOR TO START OF CONSTRUCTION.
- THE LIMIT OF DISTURBANCE MUST BE STAKED OUT AND EROSION CONTROLS INSTALLED PRIOR TO CLEARING & GRUBBING. AT NO TIME SHALL THE CONTRACTOR CONSTRUCT BEYOND THE APPROVED LIMITS.
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS TO ASSUME RESPONSIBILITY. IF ANY DISCREPANCIES ARE FOUND THE ENGINEER SHALL BE IMMEDIATELY CONTACTED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DE-WATERING.

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED October 23, 2009 FILE # 09-0072
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL.
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.
Eugene D. Weneck

LEGEND

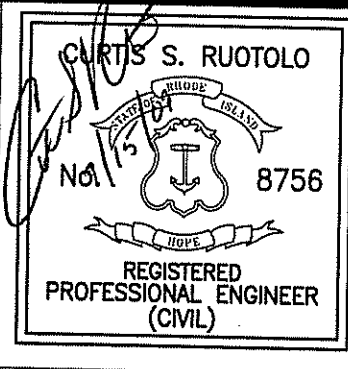
| | |
|-----|---|
| --- | EX. CONTOUR |
| --- | EX. EDGE OF PAVEMENT |
| --- | ABUTTER PROPERTY LINE |
| --- | OWNER PROPERTY LINE |
| --- | PROPOSED CONTOUR |
| ⊙ | SOIL EVALUATION |
| ⚓ | LEDGE PROBES |
| △ | WETLAND FLAG |
| --- | 100' RIVERBANK WETLAND |
| --- | 50' PERIMETER WETLAND |
| --- | SILT FENCE (EROSION CONTROL) |
| --- | LIMIT OF DISTURBANCE (NO EROSION CONTROL) |

BOX CULVERT INSTALLATION NOTES

- CONSTRUCTION OF THE BOX CULVERT SHOULD TAKE PLACE DURING THE LOW FLOW PERIOD OF JULY 1ST THROUGH OCTOBER 31ST.
- IT IS ANTICIPATED THAT NO FLOW WILL NEED DIVERSION DURING INSTALLATION OF THE BOX CULVERT.
- IF FLOW IS ENCOUNTERED, THE CONTRACTOR SHALL TAKE PRECAUTIONS TO BY-PASS STREAM FLOW BY DIGGING A SUMP, AND PUMPING THE STREAM AROUND EXCAVATION BACK INTO THE STREAM BED JUST BEYOND THE PROPOSED LIMITS OF DISTURBANCE.
- THE PUMP(S) MUST BE ABLE TO HANDLE THE CAPACITY OF THE STREAM FLOW FOR THE DURATION OF CULVERT INSTALLATION.
- THE CONTRACTOR SHALL EXCAVATE THE STREAM BOTTOM AS INDICATED ON THE "BOX CULVERT INSTALLATION DETAIL" LOCATED ON THE NEXT SHEET.
- REMOVE ALL TOPSOIL, SUBSOIL, OR UNDESIRABLE MATERIAL AND REPLACE WITH COMPACTED GRANULAR BACKFILL.
- PLACE A SIX (6) INCH LAYER OF PROCESSED GRAVEL BASE COMPACTED TO 95% PROCTOR DENSITY.
- INSTALL CULVERT AND USE NATIVE MATERIAL TO MATCH ADJACENT GRADES. PLACE RIP-RAP AT INLET ALONG BOTTOM AND OUTLET END OF THE CULVERT AS SHOWN.

Kindly be advised that this Permit is not equivalent to a verification of the type or extent of freshwater wetlands on site.

WETLANDS SITE PLAN
SINGLE FAMILY DWELLING
A.P.10 LOT 98A
10 BEARSKIN FARM RD N. SMITHFIELD, RI
PREPARED FOR:
VRANIA L. COELHO
30 OLD RIVER ROAD LINCOLN, RI 02865

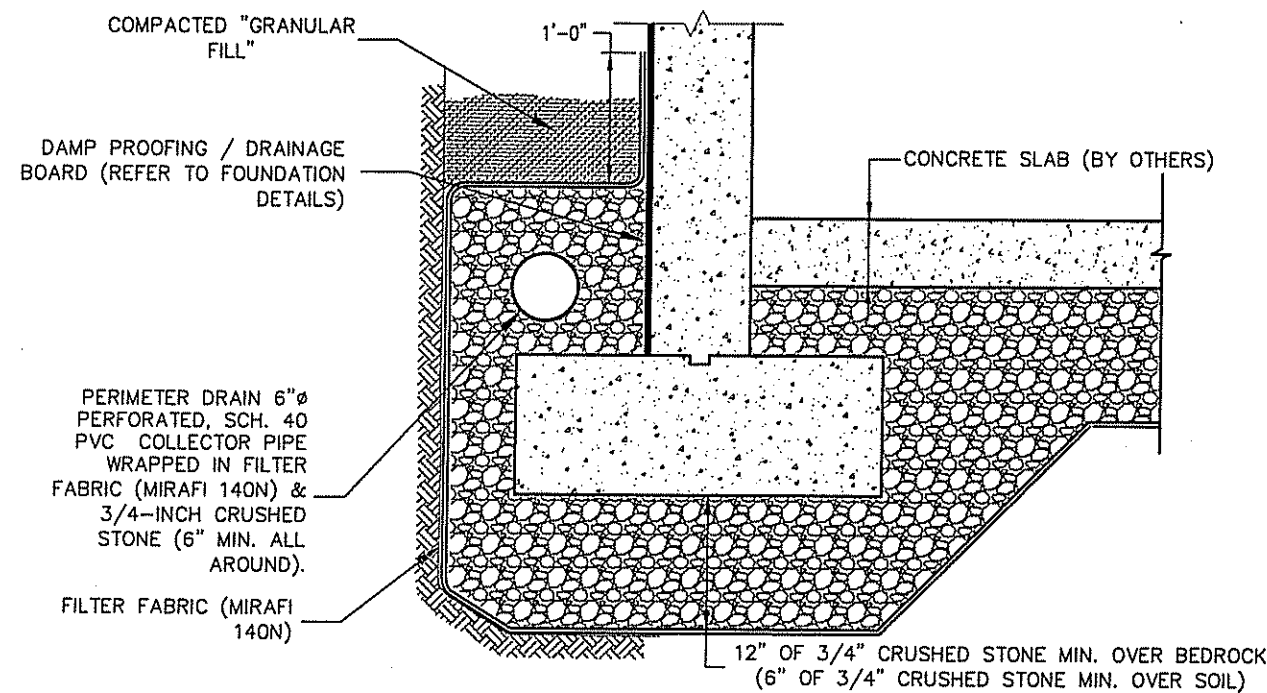


| NO. | DATE | DESCRIPTION |
|-----|---------|----------------|
| 1 | 9/22/09 | RIDEM WETLANDS |

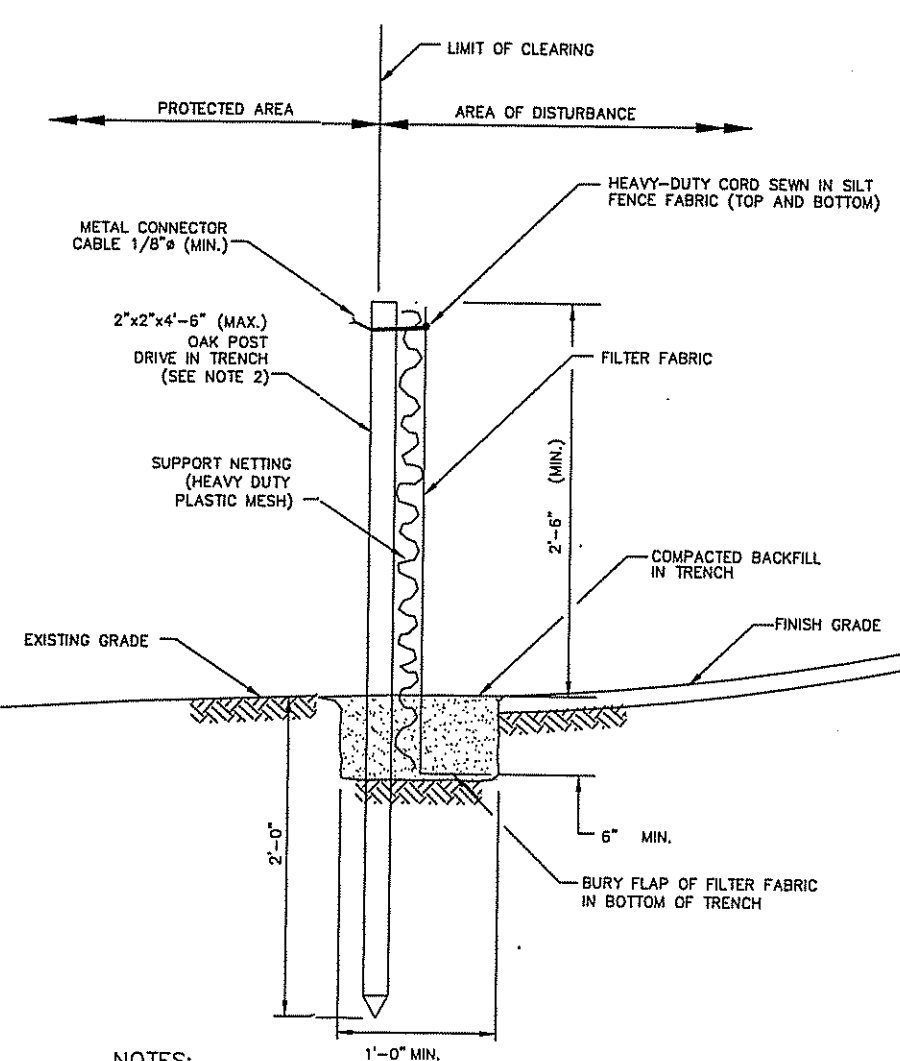
DATE: MARCH 15, 2009
SCALE: AS NOTED
DESIGN/CHECK BY: C.S.R.
SHEET NO.

ADVANCED CIVIL DESIGN, INC.
CIVIL ENGINEERS
7 COUNTRYSIDE LANE
SCITUATE, RI 02857
P1: (401) 644-8656
P2: (401) 473-4404

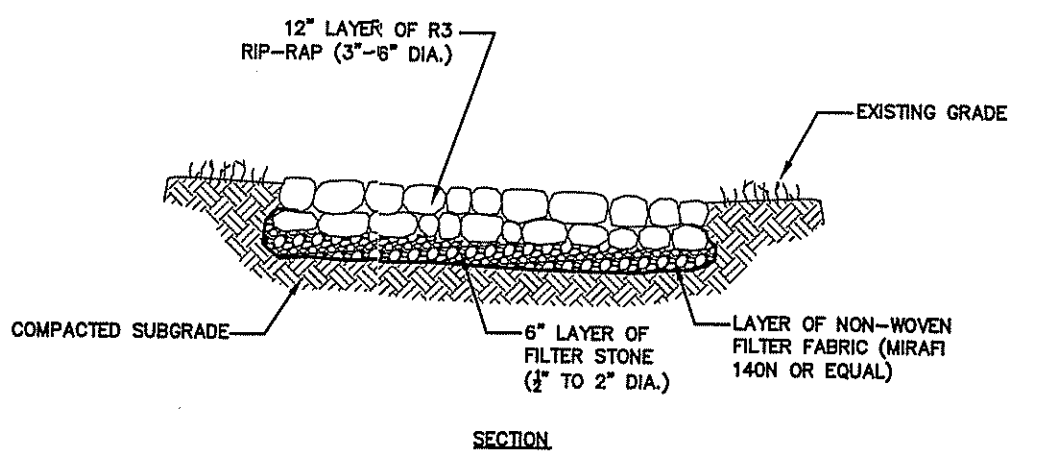
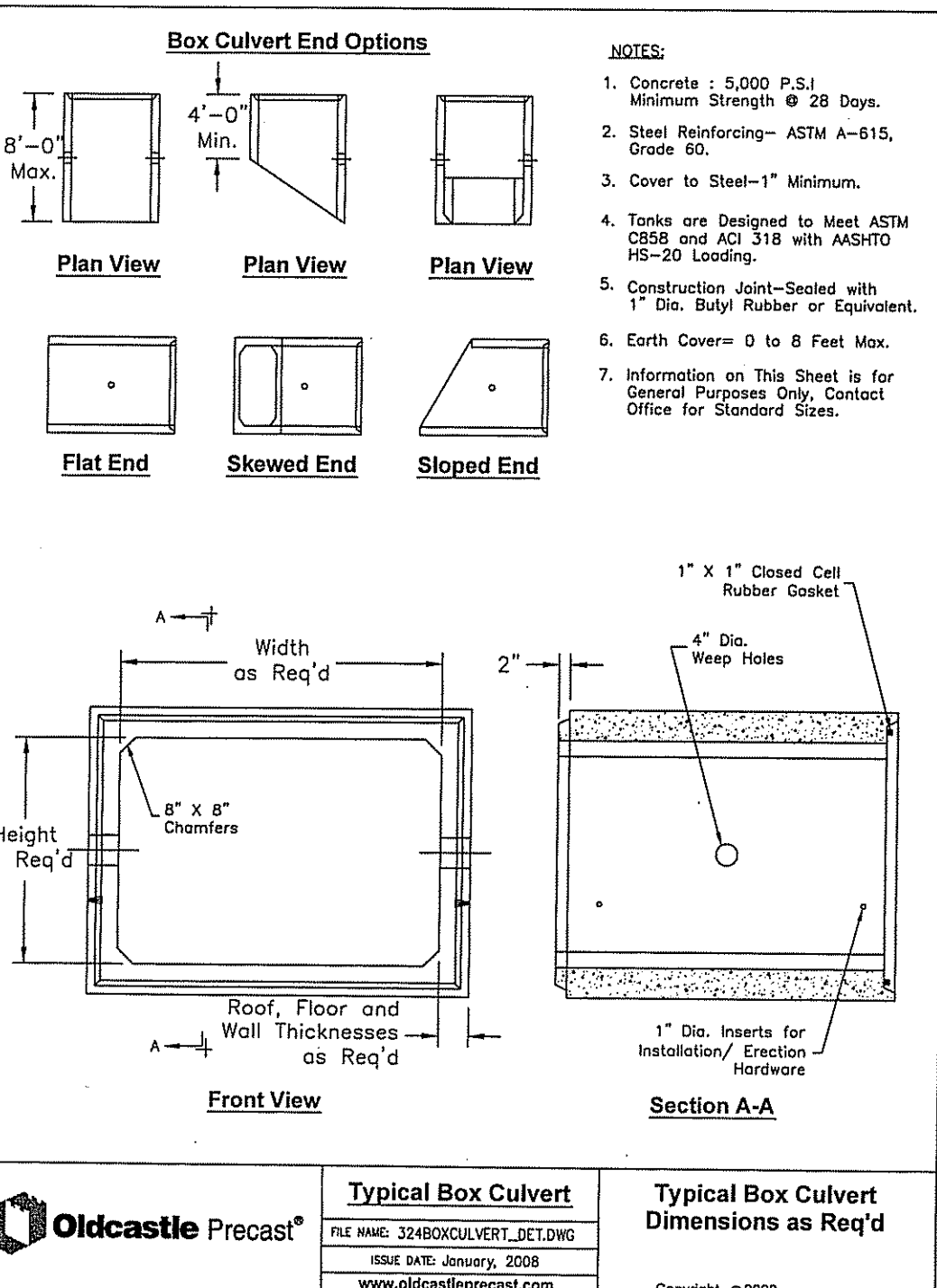
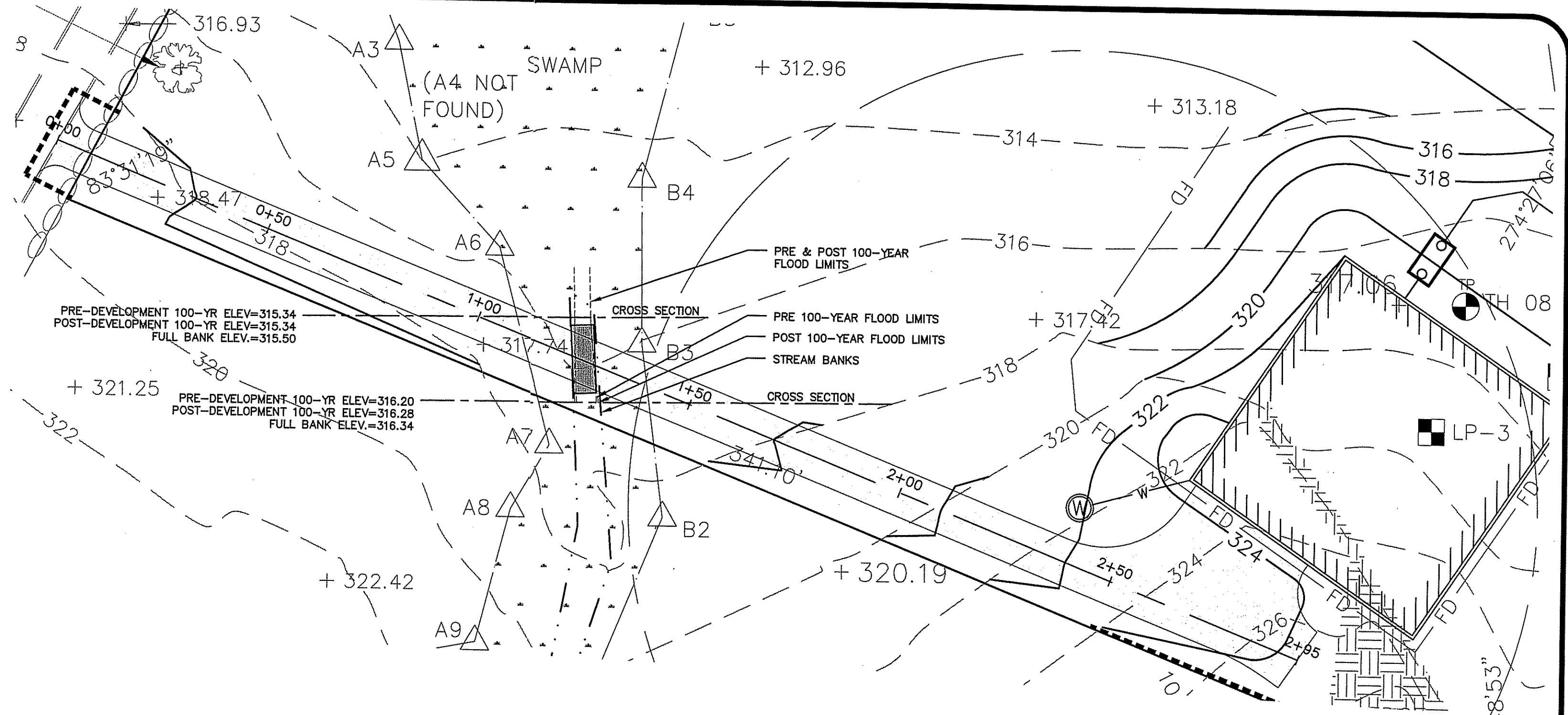




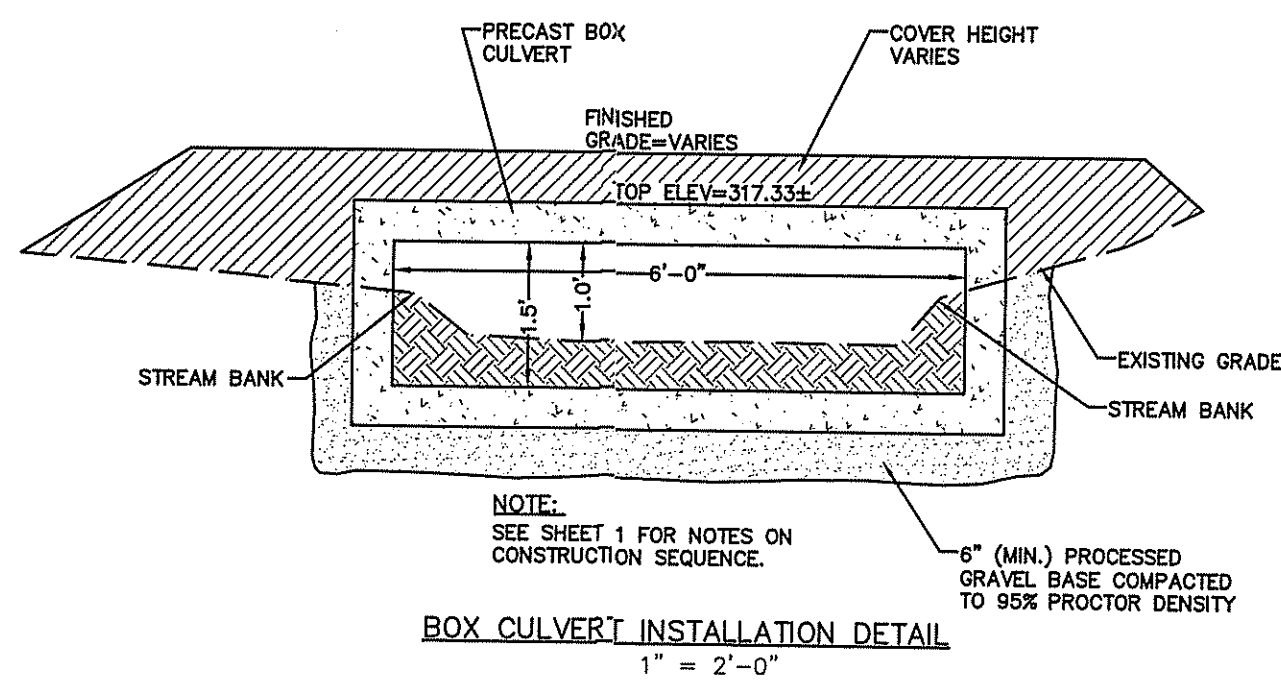
PERIMETER DRAIN AT TOP OF FOOTING
NOT TO SCALE



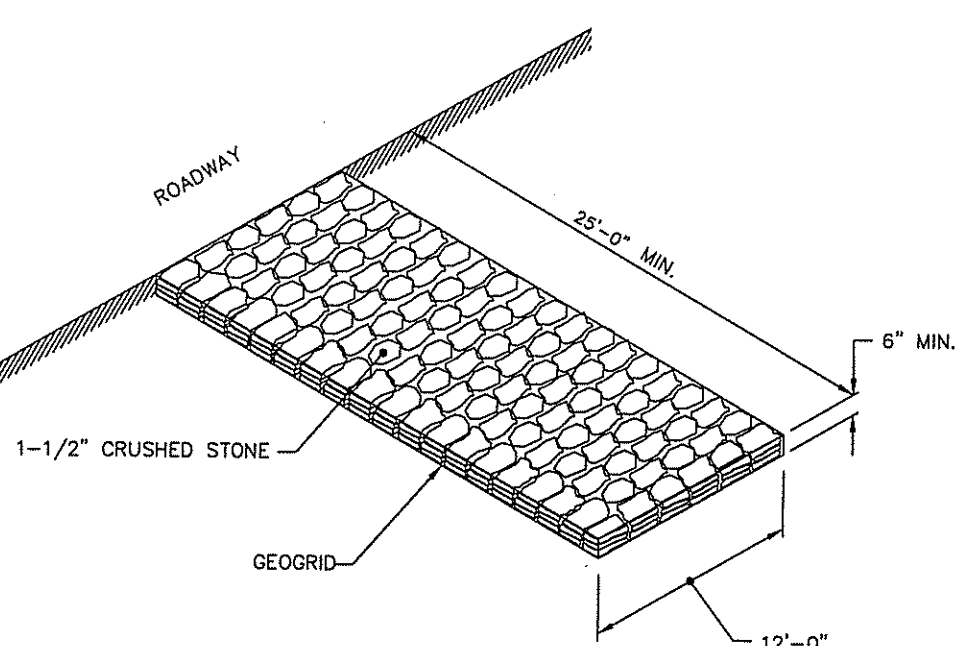
SILT FENCE DETAIL
NOT TO SCALE



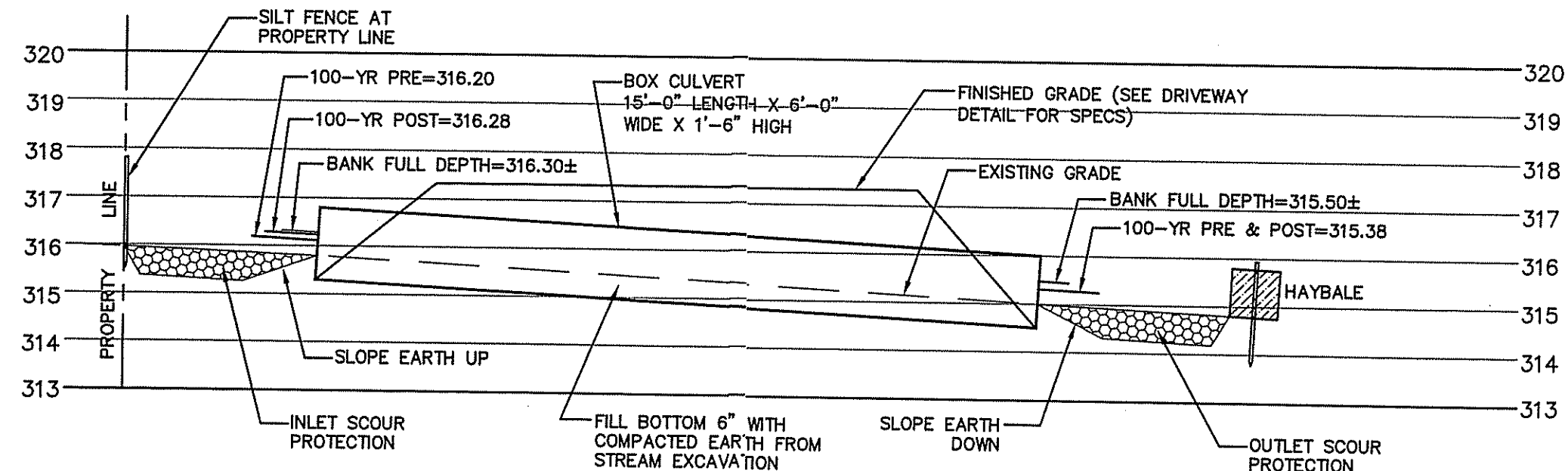
RIP-RAP SCOUR PROTECTION
NOT TO SCALE



BOX CULVERT INSTALLATION DETAIL
1" = 2'-0"



ENTRANCE STABILIZATION PAD
NOT TO SCALE



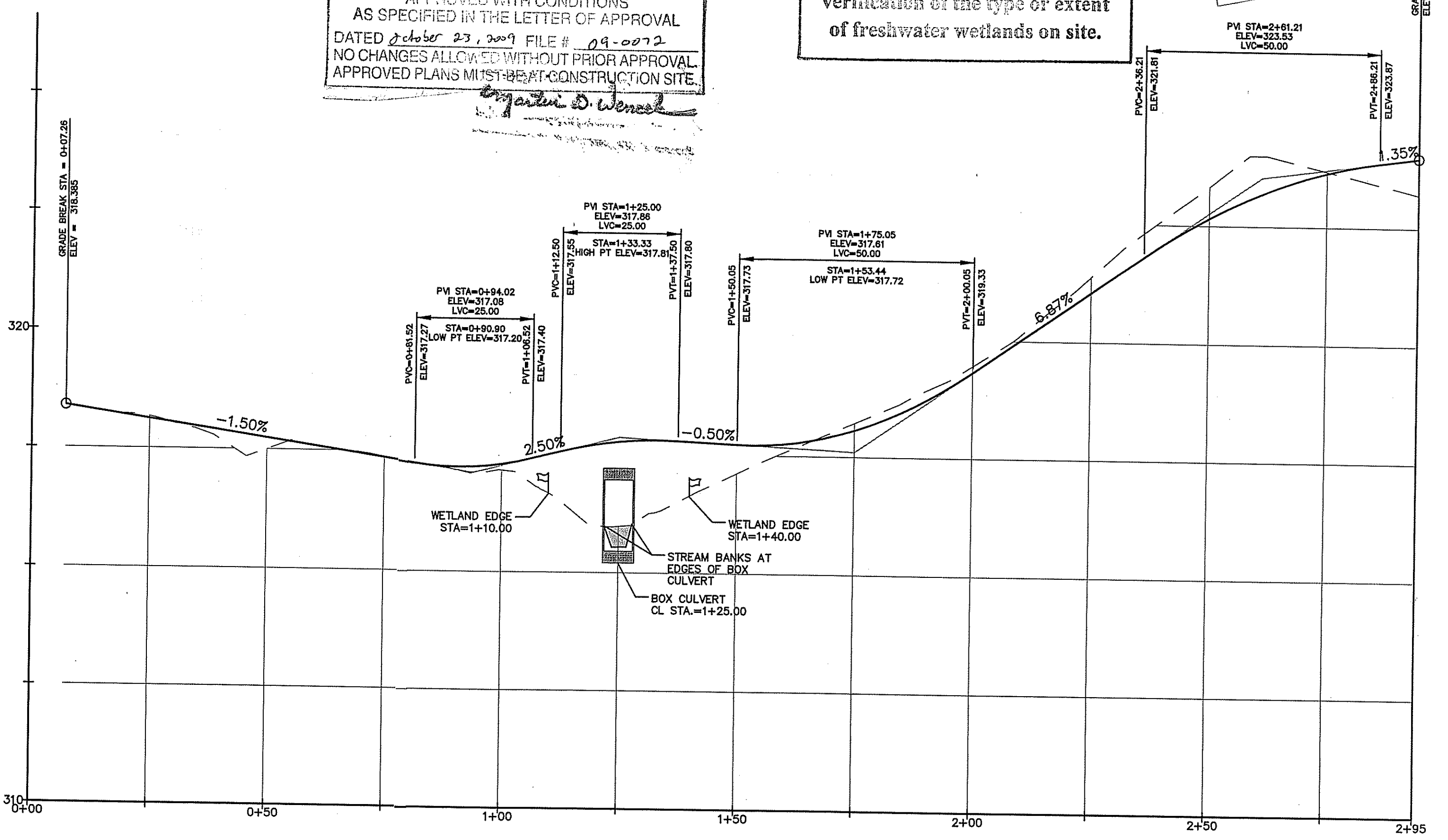
BOX CULVERT PROFILE
1" = 3'-0"

DEPARTMENT OF ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES
FRESHWATER WETLANDS PROGRAM
APPROVED WITH CONDITIONS
AS SPECIFIED IN THE LETTER OF APPROVAL
DATED October 23, 2009 FILE # 09-0072
NO CHANGES ALLOWED WITHOUT PRIOR APPROVAL
APPROVED PLANS MUST BE AT CONSTRUCTION SITE.

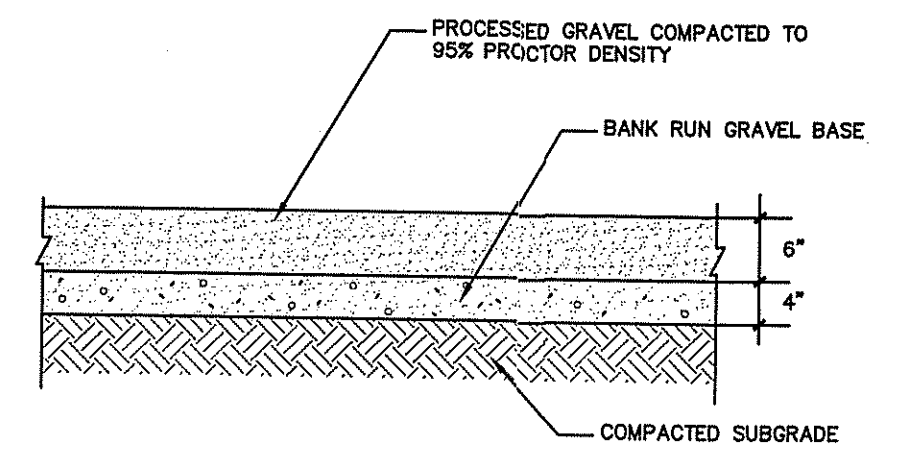
Myranda D. Wenzel

Kindly be advised that this
Permit is not equivalent to a
verification of the type or extent
of freshwater wetlands on site.

RECEIVED
SEP 16 2009
ENVIRONMENTAL MANAGEMENT
OFFICE OF WATER RESOURCES



DRIVEWAY PROFILE



SECTION THRU GRAVEL DRIVEWAY - DETAIL
NOT TO SCALE

| | | | |
|--|--|--|--|
| <p>SITE DETAILS SINGLE FAMILY DWELLING A.P.10 LOT 98A 10 BEARSKIN FARM RD N. SMITHFIELD, RI PREPARED FOR: VRANIA L. COELHO 30 OLD RIVER ROAD LINCOLN, RI 02865</p> | | <p>REGISTERED PROFESSIONAL ENGINEER (CIVIL) CURTIS S. RUOTOLO No. 8756</p> | <p>NO. 1 DATE 9/28/09 DESCRIPTION RIDEM WETLANDS</p> |
| <p>ADVANCED CIVIL DESIGN, INC. CIVIL ENGINEERS</p> | | <p>DATE: MARCH 15, 2009 SCALE: AS NOTED DESIGN/CHECK BY: C.S.R.</p> | <p>SHEET NO. 2 OF 2</p> |
| <p>7 COUNTRYSIDE LANE SCITUATE, RI 02857</p> | | <p>P1: (401) 644-8656 P2: (401) 473-4404</p> | |