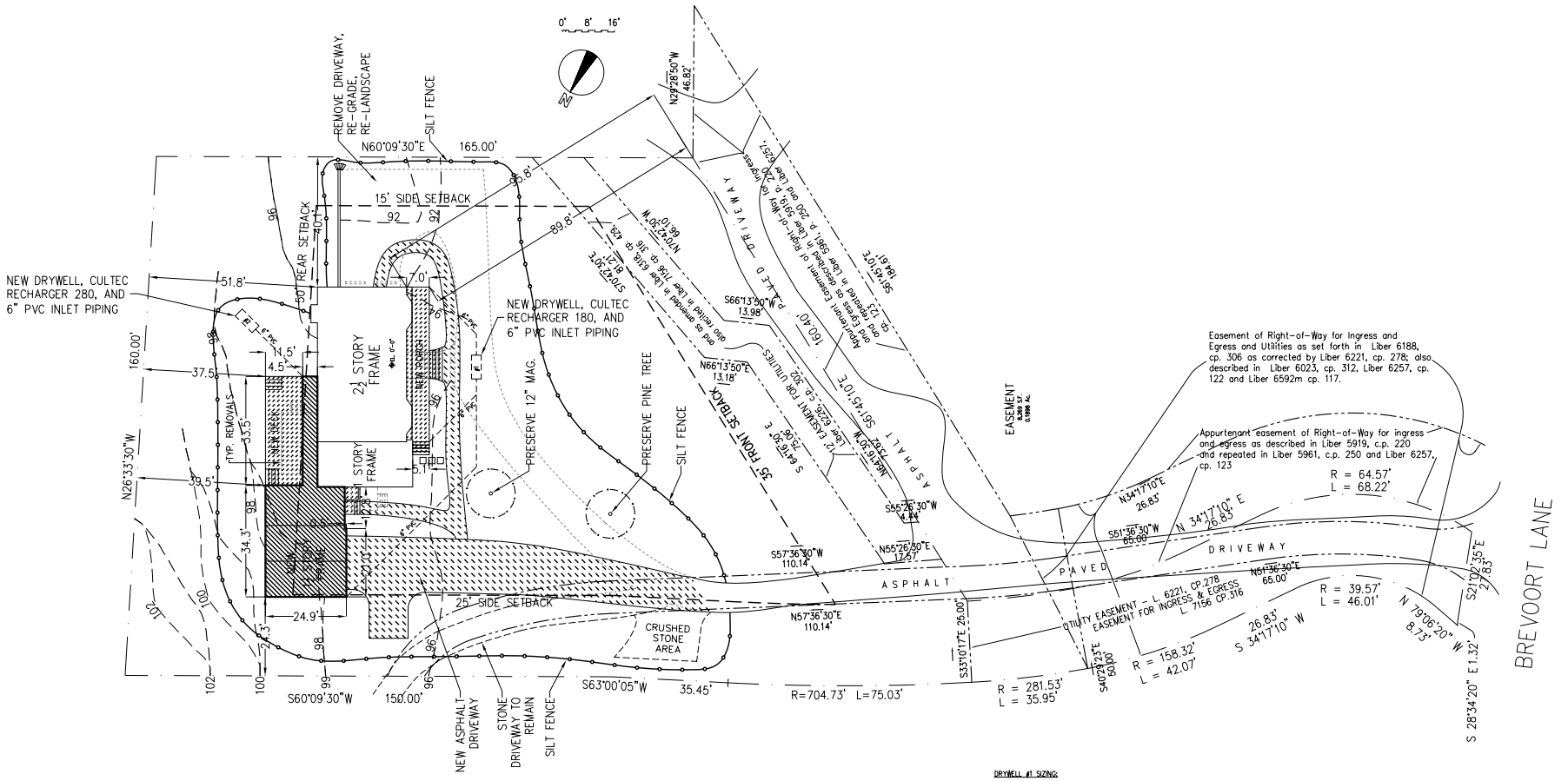
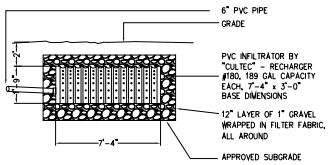
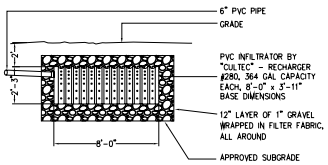


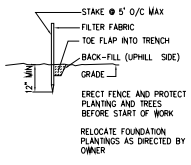
SITE PLAN
1/16" = 1'-0"



DRYWELL DETAIL #1
1/4" = 1'-0"



DRYWELL DETAIL #2
1/4" = 1'-0"



SILT FENCE

DRYWELL #1 SIZING:

25 YR STORM = 5.7" PER 24 HOURS
AREA OF NEW WORK = 580 S.F.
TOTAL VOLUME OF WATER TO BE STORED = 580 x 5.7/12 = 275.5 C.F./DAY

PERCOLATION RATE = 2.0 C.F./S.F./DAY
RECHARGER 180
VOLUME OF UNIT = 25.3 C.F.
VOLUME OF STONE AROUND UNIT = 147.7 C.F.
VOID = 1/3 x VOLUME OF STONE = 49.2 C.F.
UNIT PERCOLATION AREA = 106.3 S.F.
VOLUME OF PERCOLATION = 106.3 x 2.0 = 212.6 C.F./DAY
VOLUME OF WATER STORED = 25.3 + 49.2 = 74.5 C.F.
TOTAL WATER STORED = 287.1 C.F./DAY

287.1 C.F./DAY PROVIDED > 275.5 C.F./DAY REQUIRED

DRYWELL #2 SIZING:

25 YR STORM = 5.7" PER 24 HOURS
AREA OF NEW WORK = 721 S.F.
TOTAL VOLUME OF WATER TO BE STORED = 721 x 5.7/12 = 342.5 C.F./DAY

PERCOLATION RATE = 2.0 C.F./S.F./DAY
RECHARGER 280
VOLUME OF UNIT = 48.6 C.F.
VOLUME OF STONE AROUND UNIT = 201.3 C.F.
VOID = 1/3 x VOLUME OF STONE = 67.1 C.F.
UNIT PERCOLATION AREA = 133.7 S.F.
VOLUME OF PERCOLATION = 133.7 x 2.0 = 267.4 C.F./DAY
VOLUME OF WATER STORED = 48.6 + 67.1 = 116.7 C.F.
TOTAL WATER STORED = 383.1 C.F./DAY

383.1 C.F./DAY PROVIDED > 342.5 C.F./DAY REQUIRED

AREA OF OLD & NEW DRIVEWAY & WALKS

OLD AREA OF DRIVEWAY & WALKS = 2573.9 S.F.
NEW AREA OF DRIVEWAY & WALKS = 2270.0 S.F.

NEW AREA < OLD AREA, THEREFORE NO ADDITIONAL SURFACE WATER CONTROL REQUIRED.

Grigg & Davis Engineers, P.C.
21 Crossway
Scarsdale, NY 10583
Tel./Fax (914) 725 5095

PROJECT
Confidential
RYE, NEW YORK
SECTION: confidential

DRAWING TITLE
SURFACE WATER CONTROL PLAN & DETAILS

SCALE | DATE 11-05-06 | CAD FILE

Steven Secon Architect, P.C.
145 Palisade Street, Suite #372
Dobbs Ferry, New York 10522
Tel. (914) 674-2950 Fax (914) 693-1537

DRAWING NUMBER
SWC