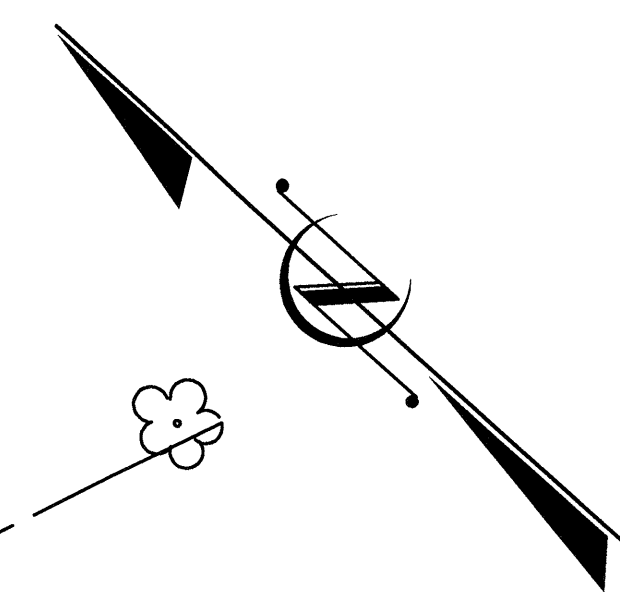


EROSION CONTROL PLAN

(2 OF 3)



- Erosion Control Sequence**
1. Access and Mobilization: Stabilize bare areas immediately with temp. vegetation and/or gravel as construction takes place.
 2. Install silt fence. Silt fence shall be installed up to the existing bridge abutments to prevent sediment-laden runoff from leaving the construction site and/or entering Richland Creek. Silt fence shall be above the existing ditches.
 3. Install type-A gravel checks as soon as practical.
 4. Construct channel shift. Undercut unsuitable material, and install class I rip-rap as required. Install silt fence at top of bank.
 5. Proceed with construction of the new bridge. Additional gravel stabilization and/or silt fence may be required behind the old abutments when the old bridge is removed and before new bridge is installed.
 6. Maintenance inspections shall be performed weekly and after periods of rainfall. Repairs shall be made immediately.
 7. Install grates, drains, culverts, outlet protection, and rip-rap in ditch transition. Relocate silt fence as necessary.
 8. Once the site is stabilized, remove silt fence and silt checks.
 9. Seed and mulch all remaining disturbed areas.

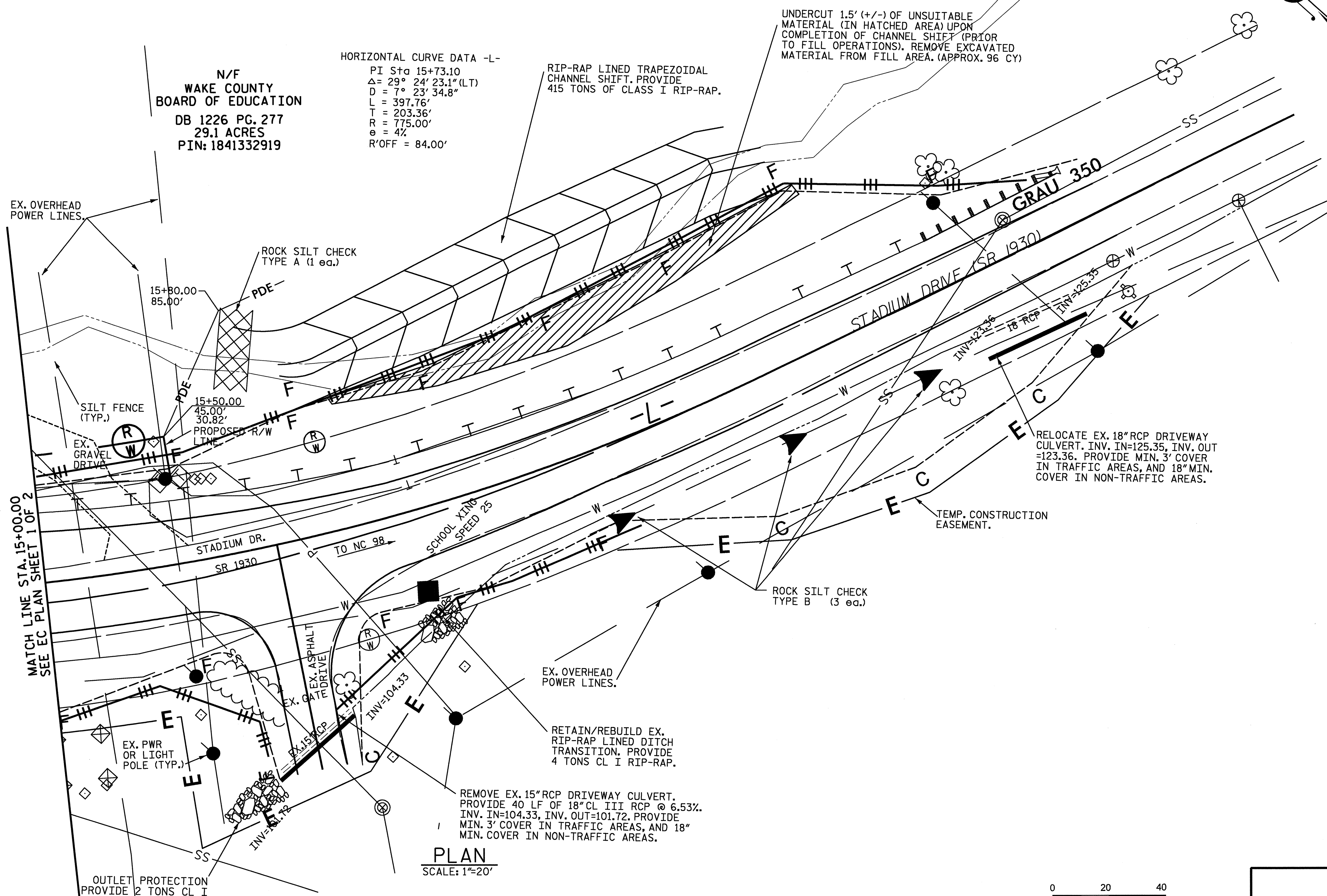
N/F
WAKE COUNTY
BOARD OF EDUCATION
DB 1226 PG. 277
29.1 ACRES
PIN: 1841332919

HORIZONTAL CURVE DATA -L-
 PI Sta 15+73.10
 $\Delta = 29^\circ 24' 23.1''$ (LT)
 D = 7° 23' 34.8"
 L = 397.76'
 T = 203.36'
 R = 775.00'
 $e = 4'$
 R'OFF = 84.00'

RIP-RAP LINED TRAPEZOIDAL CHANNEL SHIFT. PROVIDE 415 TONS OF CLASS I RIP-RAP.

UNDERCUT 1.5' (+/-) OF UNSUITABLE MATERIAL (IN HATCHED AREA) UPON COMPLETION OF CHANNEL SHIFT (PRIOR TO FILL OPERATIONS). REMOVE EXCAVATED MATERIAL FROM FILL AREA. (APPROX. 96 CY)

RELOCATE EX. 18" RCP DRIVEWAY CULVERT. INV. IN=125.35, INV. OUT=123.36. PROVIDE MIN. 3' COVER IN TRAFFIC AREAS, AND 18" MIN. COVER IN NON-TRAFFIC AREAS.



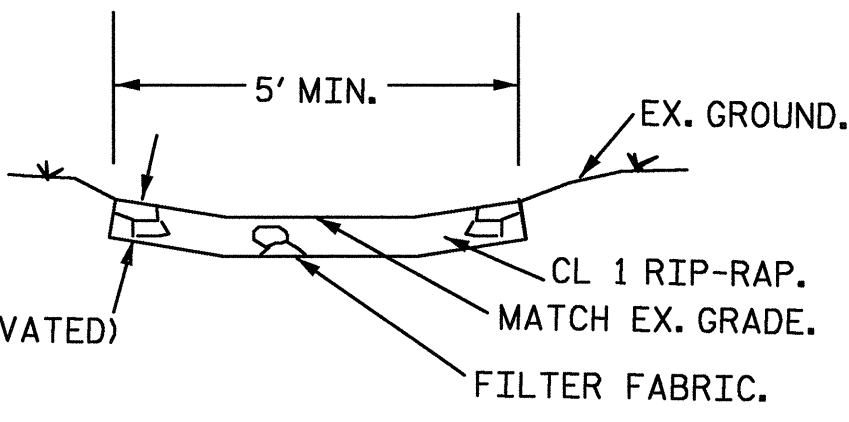
MATCH LINE STA. 15+00.00 SEE EC PLAN SHEET 1 OF 2

OUTLET PROTECTION PROVIDE 2 TONS CL I RIP-RAP.

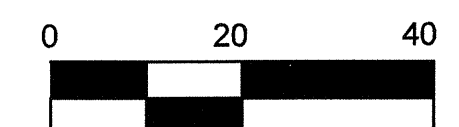
N/F
SOUTHERN BAPTIST
THEOLOGICAL SEMINARY, INC.
DB 1244 PG. 333
398.1 ACRES
PIN: 1841235038

PLAN
SCALE: 1"=20'

REMOVE EX. 15" RCP DRIVEWAY CULVERT. PROVIDE 40 LF OF 18" CL III RCP @ 6.53%. INV. IN=104.33, INV. OUT=101.72. PROVIDE MIN. 3' COVER IN TRAFFIC AREAS, AND 18" MIN. COVER IN NON-TRAFFIC AREAS.



DITCH TRANSITION DETAIL
N.T.S.



NOTE: ANY DEVIATION FROM OPTIONS GIVEN WILL REQUIRE PRIOR APPROVAL BY ENGINEER.

ROADSIDE ENVIRONMENTAL UNIT
DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAYS
 RALEIGH, N.C.
 2002 STANDARD SPECIFICATIONS

ANDREW H. HADDELL
12/10/05

ETHERILL ENGINEERING
559 Jones Franklin Rd. Suite 164
Raleigh, N.C. 27606
Bus: 919 851 8077
Fax: 919 851 9107

WBS. NO. 37017
 WAKE COUNTY
 STATION: 14+04.00 -L-
 REPLACES BRIDGE NO. 133
 SHEET 2 OF 3

| | | | | | |
|--|----|------|-----|----|-----------------------------------|
| STATE OF NORTH CAROLINA DEPARTMENT OF TRANSPORTATION RALEIGH | | | | | |
| BRIDGE #133 ON SR 1930 OVER RICHLAND CREEK | | | | | |
| REVISIONS | | | | | |
| NO. | BY | DATE | NO. | BY | DATE |
| 1 | | | 1 | | |
| 2 | | | 2 | | |
| | | | | | SHEET NO. EC-2 TOTAL SHEETS |

P:\4100\WAC5001\B\Structures\DWG\erosion2.dgn 12/21/2005 1:11:18.21 AM

DRAWN BY: J. PENDERGRAFT DATE: 12-05
 CHECKED BY: A. HADSELL DATE: 12-11