LOCHNER

H. W. LOCHNER, INC.
2840 PLAZA PLACE, SUITE 202
RALEIGH, NC 27612
NC License Number F-0159

ECOLOGICAL ENGINEERING, LLP
1151 SE CARY PARKWAY
CARY, NC 27518
NC License Number F-1148

PROJECT REFERENCE NO.	SHEET NO.
R-5523	EC-8/CONST.5
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

REVISIONS

8/17/99

-L-
HARNETT CENTRAL ROAD (SR-2215)
PI Sta 28+14.15
Δ = 21° 20' 39.8" (RT)
D = 3° 14' 13.4"
L = 659.38'
T = 333.56'
R = 1,770.00'
e = 04
Run Off = 83'

-Y3-
PI Sta 11+29.43
Δ = 58° 43' 23.0" (LT)
D = 38° 11' 49.9"
L = 153.74'
T = 84.39'
R = 150.00'
e = 02

NAD 83/11

-Y3- POT Sta. 12+48.34

END CONSTRUCTION
-Y3- POT Sta. 12+28.34

END STATE PROJECT R-5523
-L- POT Sta. 32+76.80

HARNETT CENTRAL ROAD

ISFD

HEDS

BEG. STREAM A
@ SA-1

46 x 23 x 3
1.5 inch Skimmer
with 0.875 inch
Orifice Diameter
8 ft. weir
ID 5.1

DAYLIGHT DITCH TO NATURAL GROUND

SPECIAL LAT BASE DITCH
LINED W/CLASS B RIP RAP
SEE DETAIL #4

-L- PC Sta. 24+80.59

-Y3- PT Sta. 11+98.78

-Y3- PC Sta. 10+45.04

SPECIAL CUT
BASE DITCH
SEE DETAIL #2

SPECIAL CUT DITCH
SEE DETAIL #1

SHEDS (BLOCK)

BRICK WALK

ROCK WALL

GRAVEL

2SFD

WELL

18" RCP-III

-L- PT Sta. 31+39.97

ISFD

BIN

PACKHOUSE

MOBILE HOME

TIE PROP DITCH
TO EX DITCH

-L- POT Sta. 27+30.14=
-Y3- POT Sta. 10+00.00

SPECIAL LATERAL V DITCH
LINED W/CLASS B RIPRAP
SEE DETAIL #3

SPECIAL CUT DITCH
SEE DETAIL #1

MATCH TO SHEET EC-7
-L- STA 19+00.00

END CONSTRUCTION
-Y4- POT Sta. 11+35.09

-L- POT Sta. 30+36.21
-Y4- POT Sta. 12+18.72

-L- POT Sta. 32+81.18

-Y4- POT Sta. 10+00.00

BALLARD ROAD

18 20 21 22 23 24 18A

DETAIL #1
SPECIAL CUT DITCH
(Not to Scale)

Natural Ground, 2:1, D, 4:1 or Flatter, Front Ditch Slope
Min. D=1.5 Ft.

FROM STA. 19+50 TO STA. 22+00 L RT
FROM STA. 27+75 TO STA. 29+50 L LT
FROM STA. 10+40 TO STA. 12+00 Y3 RT
FROM STA. 10+30 TO STA. 12+00 Y3 LT

DETAIL #2
SPECIAL CUT BASE DITCH
(Not to Scale)

Natural Ground, 2:1, d, D, B, Geotextile, 4:1 or Flatter, Front Slope Ditch
Min. D=1.5 Ft.
Max. d=1.0 Ft.
B=2.0 Ft.
Type of Liner= CLASS B RIPRAP

FROM STA. 24+50 TO STA. 26+60 L LT
RIP RAP = 94.1 TONS, GEO = 186.67 SY

DETAIL #3
SPECIAL LATERAL 'V' DITCH
(Not to Scale)

Natural Ground, 2:1, d, D, Geotextile, 4:1 or Flatter, Fill Slope
Min. D=1.5 Ft.
Max. d=1.0 Ft.
Type of Liner=CLASS B RIP RAP

FROM STA. 22+00 TO STA. 25+50 L RT
RIP RAP = 121.8 TONS, GEO = 233.33 SY

DETAIL #4
SPECIAL LATERAL BASE DITCH
(Not to Scale)

Natural Ground, 2:1, d, D, B, Geotextile, 4:1 or Flatter, Fill Slope
Min. D=1.5 Ft.
Max. d=1.0 Ft.
B= 2.0 Ft.
Type of Liner=CLASS B RIP RAP

FROM STA. 22+55 TO STA. 24+50 L LT
RIP RAP = 87.4 TONS, GEO = 173.33 SY

SEE SHEET 7 FOR -L- PROFILE

SEE SHEET 8 FOR -Y3- PROFILE

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davidlowery