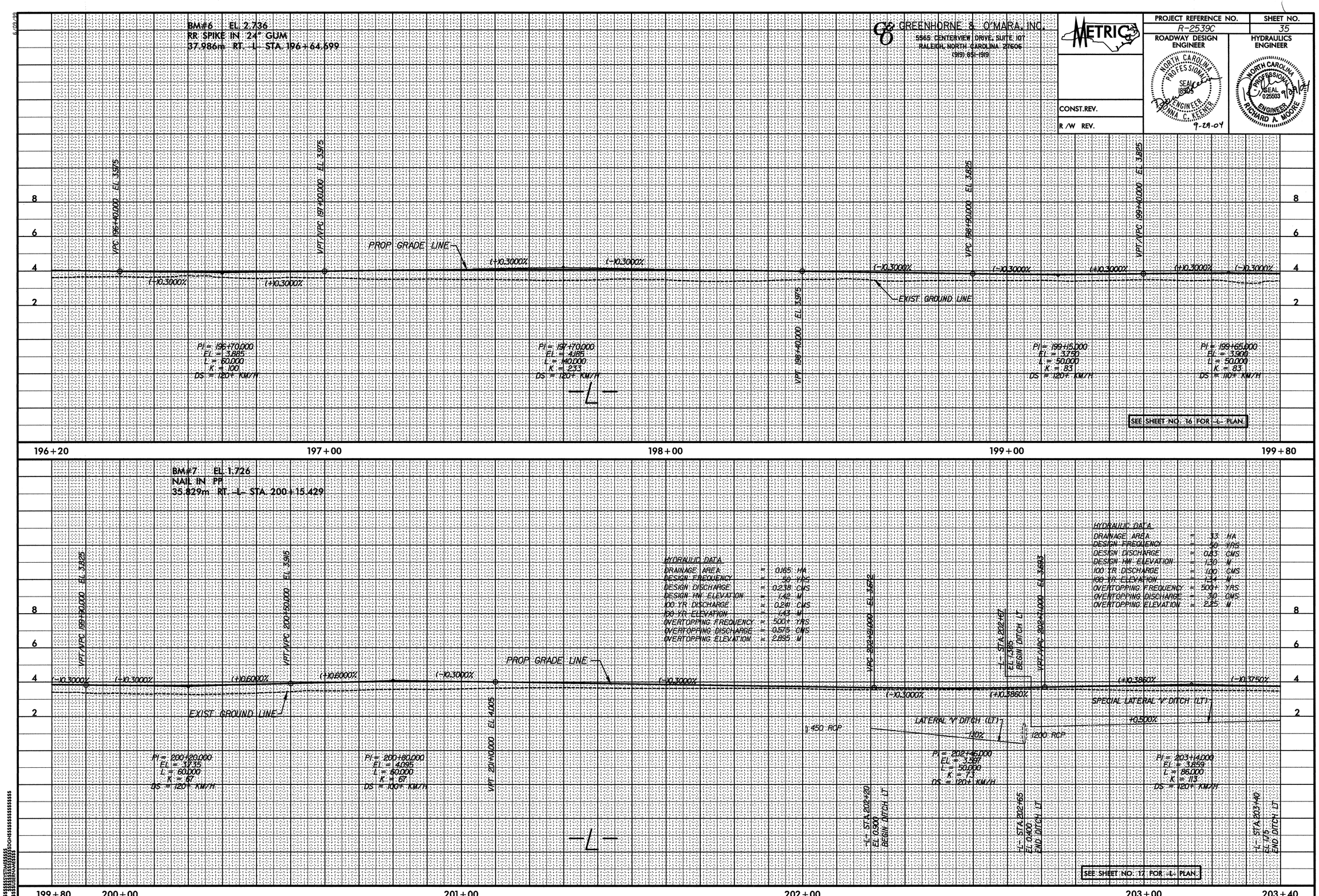

BM#6 EL. 2.736
RR SPIKE IN 24" GUM
37.986m RT. -L- STA. 196+64.699
GREENHORNE & O'MARA, INC.
5565 CENTERVIEW DRIVE, SUITE 107
RALEIGH, NORTH CAROLINA 27606
(919) 851-1919
METRIC
PROJECT REFERENCE NO.
R-2539C
SHEET NO.
35
ROADWAY DESIGN ENGINEER
HYDRAULICS ENGINEER
CONST.REV.
R/W REV.
NORTH CAROLINA PROFESSIONAL SEAL 18505 ENGINEER DONNA C. KEENER
9-29-04
NORTH CAROLINA PROFESSIONAL SEAL 025503 ENGINEER RICHARD A. MOORE
9/29/04
VPC 196+40.000 EL 3.975
VPT/VPC 197+00.000 EL 3.975
VPT 198+40.000 EL 3.975
VPC 198+90.000 EL 3.825
VPT/VPC 199+40.000 EL 3.825
PROP GRADE LINE
EXIST GROUND LINE
(-)0.3000%
(+)0.3000%
PI = 196+70.000
EL = 3.885
L = 60.000
K = 100
DS = 120+ KM/H
PI = 197+70.000
EL = 4.185
L = 140.000
K = 233
DS = 120+ KM/H
PI = 199+15.000
EL = 3.750
L = 50.000
K = 83
DS = 120+ KM/H
PI = 199+65.000
EL = 3.900
L = 50.000
K = 83
DS = 110+ KM/H
-L-
SEE SHEET NO. 16 FOR -L- PLAN.
196+20
197+00
198+00
199+00
199+80
BM#7 EL. 1.726
NAIL IN PP
35.829m RT. -L- STA. 200+15.429
VPT/VPC 199+90.000 EL 3.825
VPT/VPC 200+50.000 EL 3.915
VPT 201+10.000 EL 4.005
VPC 202+21.000 EL 3.672
-L- STA. 202+67 EL 1.385 BEGIN DITCH LT
VPT/VPC 202+71.000 EL 3.693
HYDRAULIC DATA
DRAINAGE AREA = 0.165 HA
DESIGN FREQUENCY = 50 YRS
DESIGN DISCHARGE = 0.238 CMS
DESIGN HW ELEVATION = 1.42 M
100 YR DISCHARGE = 0.241 CMS
100 YR ELEVATION = 1.43 M
OVERTOPPING FREQUENCY = 500+ YRS
OVERTOPPING DISCHARGE = 0.575 CMS
OVERTOPPING ELEVATION = 2.895 M
HYDRAULIC DATA
DRAINAGE AREA = 33 HA
DESIGN FREQUENCY = 50 YRS
DESIGN DISCHARGE = 0.83 CMS
DESIGN HW ELEVATION = 1.30 M
100 YR DISCHARGE = 1.00 CMS
100 YR ELEVATION = 1.34 M
OVERTOPPING FREQUENCY = 500+ YRS
OVERTOPPING DISCHARGE = 3.0 CMS
OVERTOPPING ELEVATION = 2.25 M
(-)0.3000%
(+)0.6000%
(+)0.3860%
(-)0.3750%
SPECIAL LATERAL 'V' DITCH (LT)
LATERAL 'V' DITCH (LT)
+0.500%
-1.10%
450 RCP
1200 RCP
PI = 200+20.000
EL = 3.735
L = 60.000
K = 67
DS = 120+ KM/H
PI = 200+80.000
EL = 4.095
L = 60.000
K = 67
DS = 100+ KM/H
PI = 202+46.000
EL = 3.597
L = 50.000
K = 73
DS = 120+ KM/H
PI = 203+14.000
EL = 3.859
L = 86.000
K = 113
DS = 120+ KM/H
-L- STA. 202+20 EL 0.900 BEGIN DITCH LT
-L- STA. 202+65 EL 0.400 END DITCH LT
-L- STA. 203+40 EL 1.75 END DITCH LT
SEE SHEET NO. 17 FOR -L- PLAN.
199+80
200+00
201+00
202+00
203+00
203+40