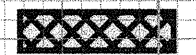
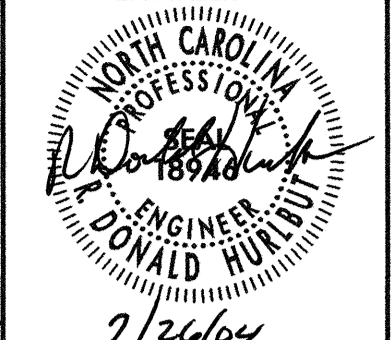
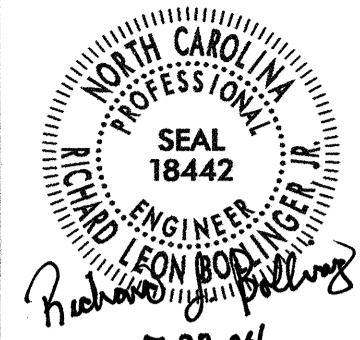
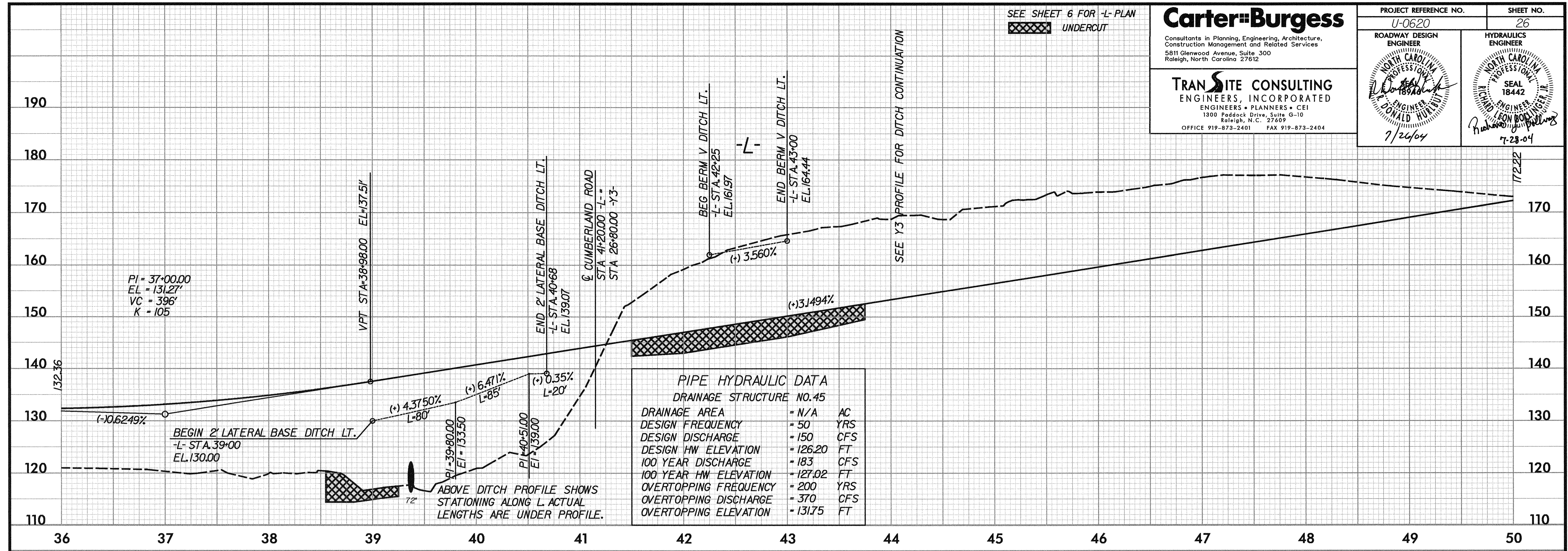


SEE SHEET 6 FOR -L- PLAN
 UNDERCUT

Carter-Burgess
 Consultants in Planning, Engineering, Architecture,
 Construction Management and Related Services
 5811 Glenwood Avenue, Suite 300
 Raleigh, North Carolina 27612

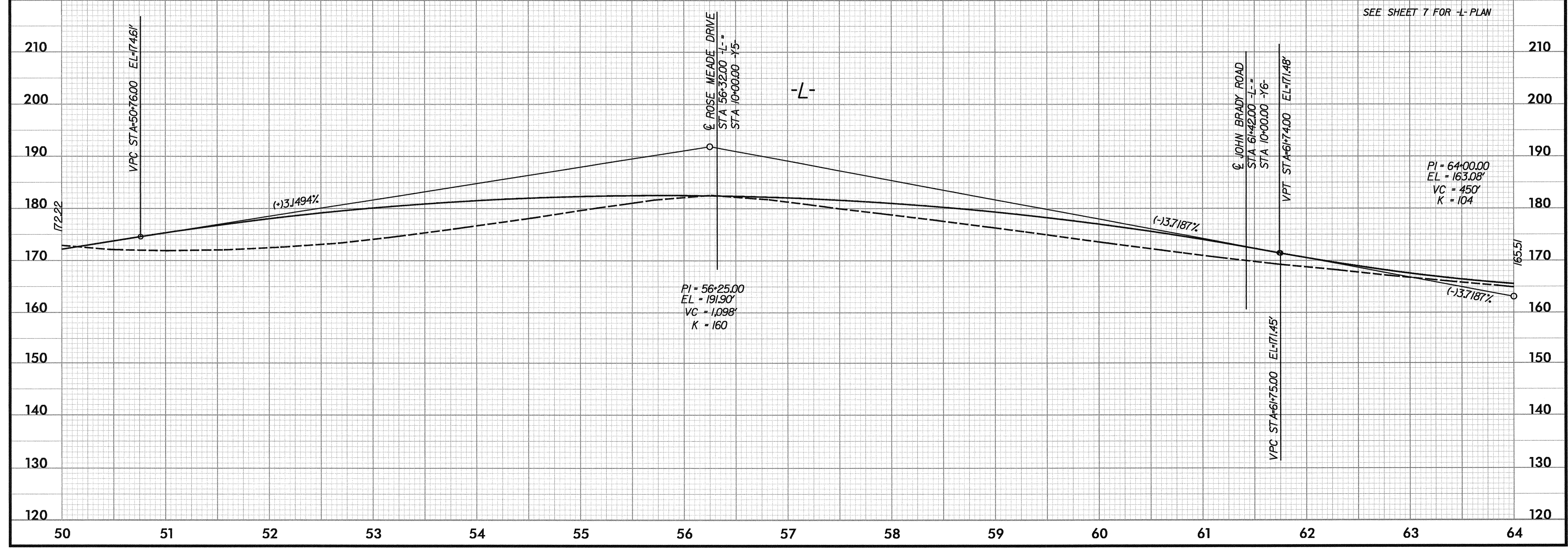
TRAN SITE CONSULTING
 ENGINEERS • PLANNERS • CEI
 1300 Paddock Drive, Suite G-10
 Raleigh, N.C. 27609
 OFFICE 919-873-2401 FAX 919-873-2404

PROJECT REFERENCE NO. U-0620	SHEET NO. 26
ROADWAY DESIGN ENGINEER 	HYDRAULICS ENGINEER 
7/26/04	7-28-04



PIPE HYDRAULIC DATA
 DRAINAGE STRUCTURE NO.45

DRAINAGE AREA	= N/A	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 150	CFS
DESIGN HW ELEVATION	= 126.20	FT
100 YEAR DISCHARGE	= 183	CFS
100 YEAR HW ELEVATION	= 127.02	FT
OVERTOPPING FREQUENCY	= 200	YRS
OVERTOPPING DISCHARGE	= 370	CFS
OVERTOPPING ELEVATION	= 131.75	FT



PI = 56+25.00
 EL = 191.90'
 VC = 1,098'
 K = 160

PI = 64+00.00
 EL = 163.08'
 VC = 450'
 K = 104