Docusign Envelope ID: 6E8CD4EA-3D52-4E97-971C-9FB9695154A3

5/28/99

TGS ENGINEERS
706 HILLSBOROUGH ST. SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275

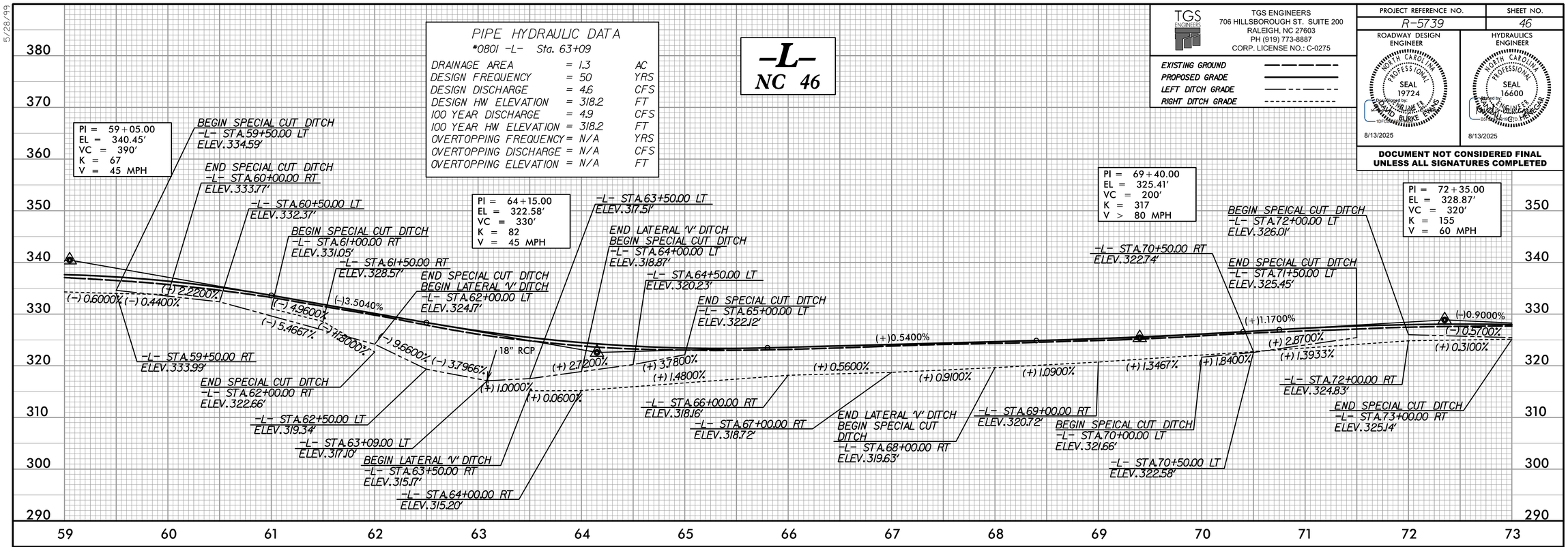
PROJECT REFERENCE NO.	SHEET NO.
R-5739	46

ROADWAY DESIGN ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 19724 — DAVID W. BURKE, P.E. — Digitally signed by DAVID W. BURKE, P.E. — 8/13/2025

HYDRAULICS ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 16600 — PAUL T. WANG, P.E. — Digitally signed by PAUL T. WANG, P.E. — 8/13/2025

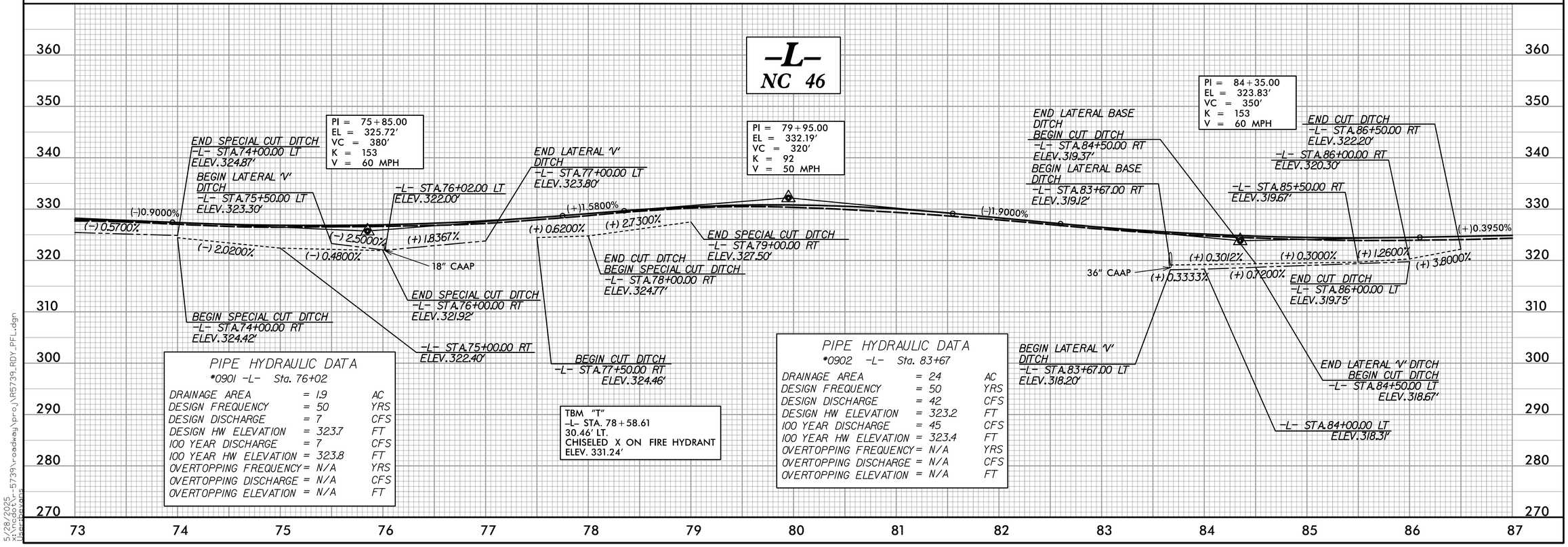
DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

EXISTING GROUND
PROPOSED GRADE
LEFT DITCH GRADE
RIGHT DITCH GRADE



PIPE HYDRAULIC DATA
*0801 -L- Sta. 63+09

DRAINAGE AREA	= 1.3	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 4.6	CFS
DESIGN HW ELEVATION	= 318.2	FT
100 YEAR DISCHARGE	= 4.9	CFS
100 YEAR HW ELEVATION	= 318.2	FT
OVERTOPPING FREQUENCY	= N/A	YRS
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING ELEVATION	= N/A	FT



PIPE HYDRAULIC DATA
*0901 -L- Sta. 76+02

DRAINAGE AREA	= 1.9	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 7	CFS
DESIGN HW ELEVATION	= 323.7	FT
100 YEAR DISCHARGE	= 7	CFS
100 YEAR HW ELEVATION	= 323.8	FT
OVERTOPPING FREQUENCY	= N/A	YRS
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING ELEVATION	= N/A	FT

TBM "T"
-L- STA. 78+58.61
30.46' LT.
CHISELED X ON FIRE HYDRANT
ELEV. 331.24'

PIPE HYDRAULIC DATA
*0902 -L- Sta. 83+67

DRAINAGE AREA	= 24	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 42	CFS
DESIGN HW ELEVATION	= 323.2	FT
100 YEAR DISCHARGE	= 45	CFS
100 YEAR HW ELEVATION	= 323.4	FT
OVERTOPPING FREQUENCY	= N/A	YRS
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING ELEVATION	= N/A	FT

5/28/2025
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usarpevans