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5/28/99

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

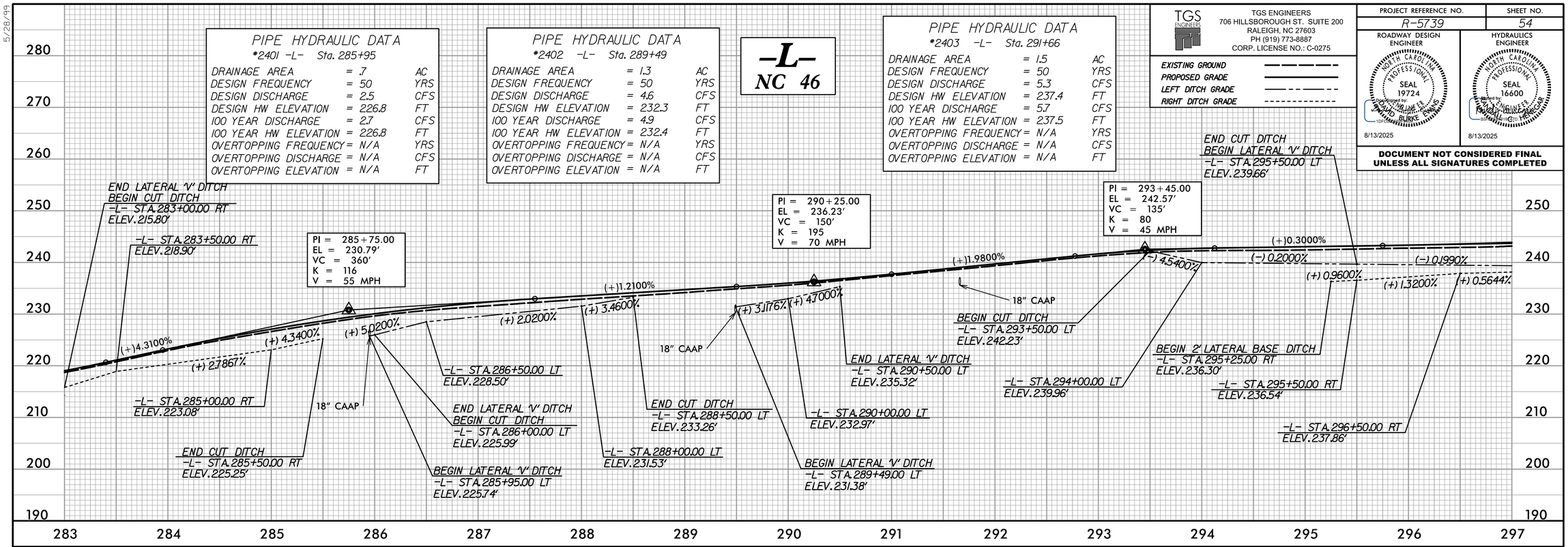
PROJECT REFERENCE NO.	SHEET NO.
R-5739	54

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 19724 — DAVID W. BURKE — 8/13/2025

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL SEAL 16600 — RANDY R. HENSLEY — 8/13/2025

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

EXISTING GROUND
PROPOSED GRADE
LEFT DITCH GRADE
RIGHT DITCH GRADE



PIPE HYDRAULIC DATA
*2401 -L- Sta. 285+95

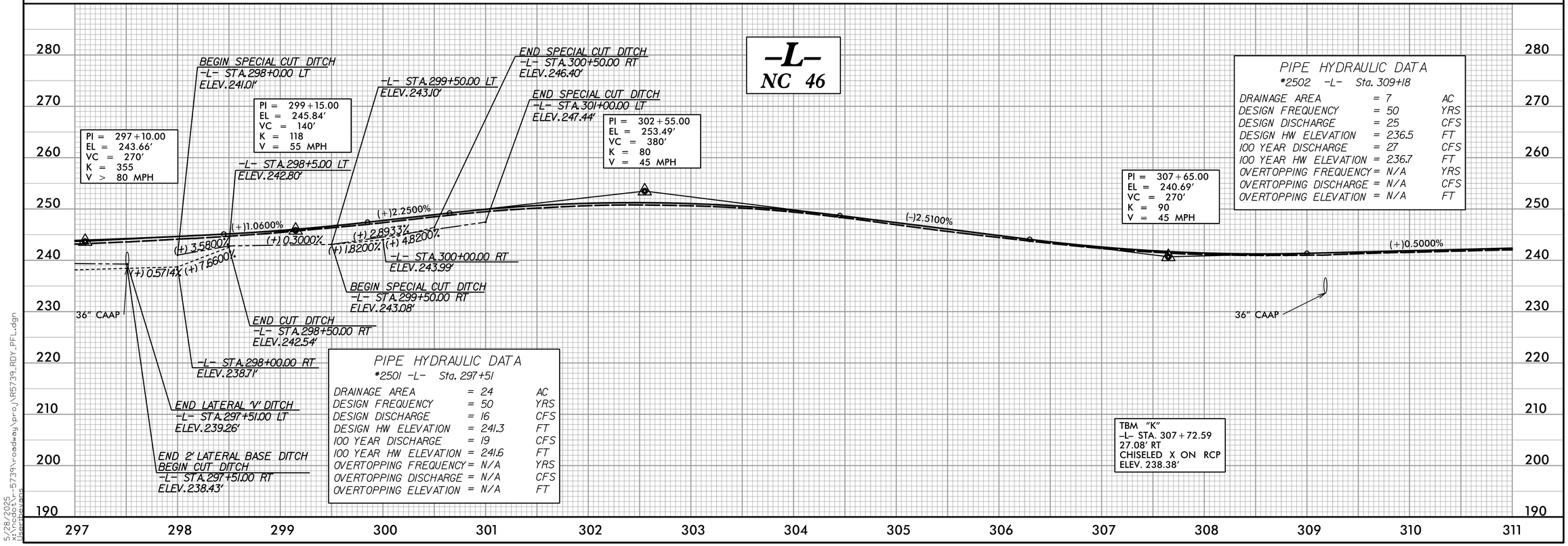
DRAINAGE AREA	= .7	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 2.5	CFS
DESIGN HW ELEVATION	= 226.8	FT
100 YEAR DISCHARGE	= 2.7	CFS
100 YEAR HW ELEVATION	= 226.8	FT
OVERTOPPING FREQUENCY	= N/A	YRS
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING ELEVATION	= N/A	FT

PIPE HYDRAULIC DATA
*2402 -L- Sta. 289+49

DRAINAGE AREA	= 1.3	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 4.6	CFS
DESIGN HW ELEVATION	= 232.3	FT
100 YEAR DISCHARGE	= 4.9	CFS
100 YEAR HW ELEVATION	= 232.4	FT
OVERTOPPING FREQUENCY	= N/A	YRS
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING ELEVATION	= N/A	FT

PIPE HYDRAULIC DATA
*2403 -L- Sta. 291+66

DRAINAGE AREA	= 1.5	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 5.3	CFS
DESIGN HW ELEVATION	= 237.4	FT
100 YEAR DISCHARGE	= 5.7	CFS
100 YEAR HW ELEVATION	= 237.5	FT
OVERTOPPING FREQUENCY	= N/A	YRS
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING ELEVATION	= N/A	FT



PIPE HYDRAULIC DATA
*2501 -L- Sta. 297+51

DRAINAGE AREA	= 24	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 16	CFS
DESIGN HW ELEVATION	= 241.3	FT
100 YEAR DISCHARGE	= 19	CFS
100 YEAR HW ELEVATION	= 241.6	FT
OVERTOPPING FREQUENCY	= N/A	YRS
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING ELEVATION	= N/A	FT

PIPE HYDRAULIC DATA
*2502 -L- Sta. 309+18

DRAINAGE AREA	= 7	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 25	CFS
DESIGN HW ELEVATION	= 236.5	FT
100 YEAR DISCHARGE	= 27	CFS
100 YEAR HW ELEVATION	= 236.7	FT
OVERTOPPING FREQUENCY	= N/A	YRS
OVERTOPPING DISCHARGE	= N/A	CFS
OVERTOPPING ELEVATION	= N/A	FT

TBM "K"
-L- STA. 307+72.59
27.08' RT
CHISELED X ON RCP
ELEV. 238.38'

5/28/2025
x:\ncdot\r-5739\roadway\proj\R5739_RDY_PFL.dgn
User:evans