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5/28/99

STV 100 Years
STV Engineers, Inc.
900 West Trade St., Suite 715
Charlotte, NC 28202
NC License Number F-0991

PROJECT REFERENCE NO.	SHEET NO.
U-4751	49

ROADWAY DESIGN ENGINEER — NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 043891 — SEAN C. STICHELS — 7/14/2017

HYDRAULICS ENGINEER — NORTH CAROLINA PROFESSIONAL ENGINEER SEAL 029388 — EDWARD J. BRANCH — 7/14/2017

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

DITCH LEGEND	
LEFT DITCH	----·----·----
RIGHT DITCH	----------

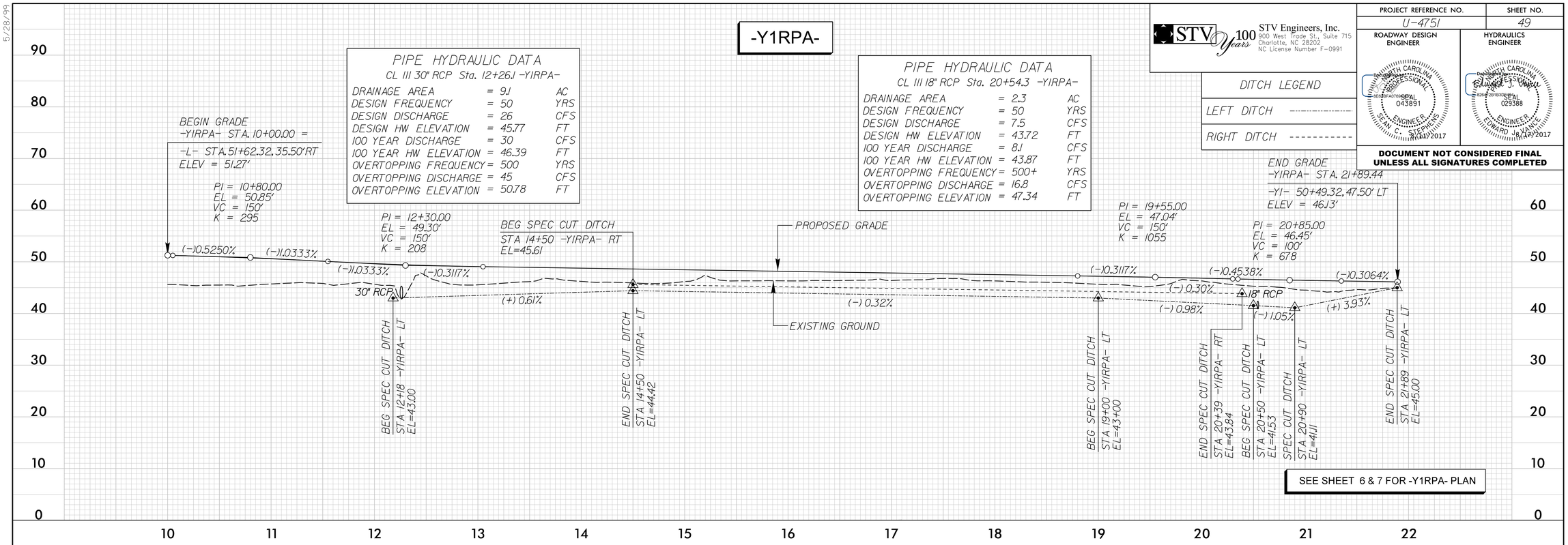
-Y1RPA-

PIPE HYDRAULIC DATA
CL III 30" RCP Sta. 12+26.1 -YIRPA-

DRAINAGE AREA	= 9.1	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 26	CFS
DESIGN HW ELEVATION	= 45.77	FT
100 YEAR DISCHARGE	= 30	CFS
100 YEAR HW ELEVATION	= 46.39	FT
OVERTOPPING FREQUENCY	= 500	YRS
OVERTOPPING DISCHARGE	= 45	CFS
OVERTOPPING ELEVATION	= 50.78	FT

PIPE HYDRAULIC DATA
CL III 18" RCP Sta. 20+54.3 -YIRPA-

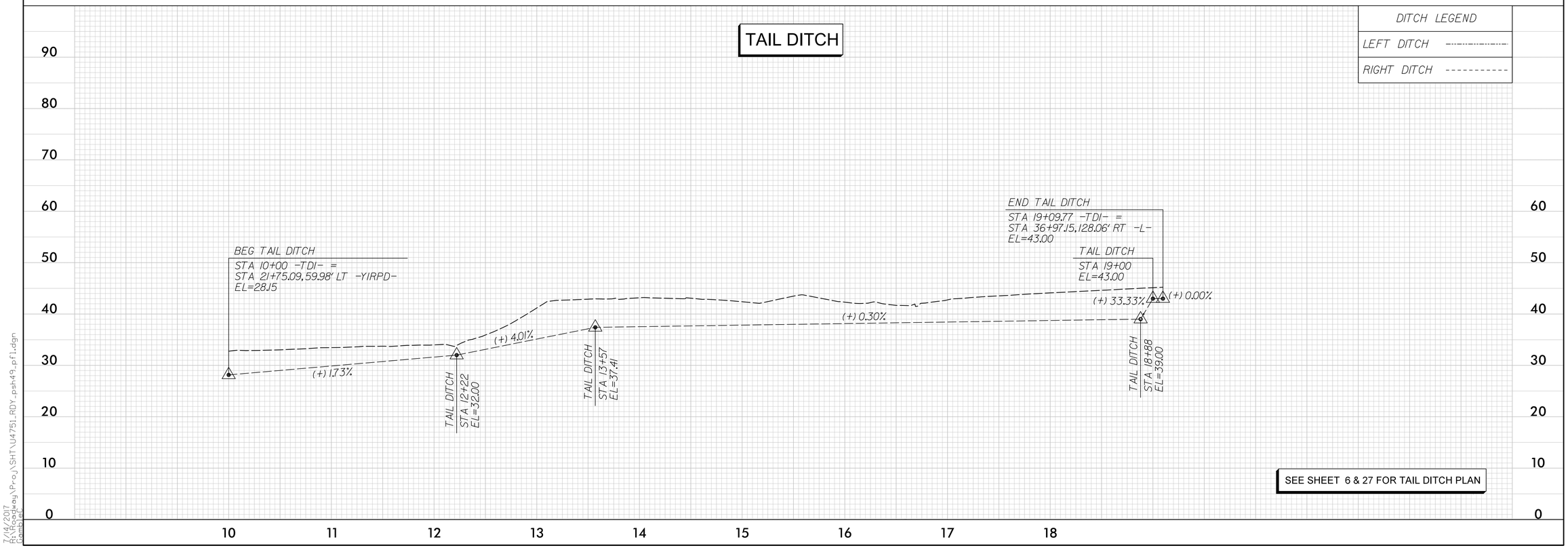
DRAINAGE AREA	= 2.3	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 7.5	CFS
DESIGN HW ELEVATION	= 43.72	FT
100 YEAR DISCHARGE	= 8.1	CFS
100 YEAR HW ELEVATION	= 43.87	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 16.8	CFS
OVERTOPPING ELEVATION	= 47.34	FT



SEE SHEET 6 & 7 FOR -Y1RPA- PLAN

TAIL DITCH

DITCH LEGEND	
LEFT DITCH	----·----·----
RIGHT DITCH	----------



SEE SHEET 6 & 27 FOR TAIL DITCH PLAN

7/14/2017
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