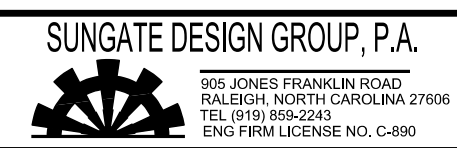


5/14/99



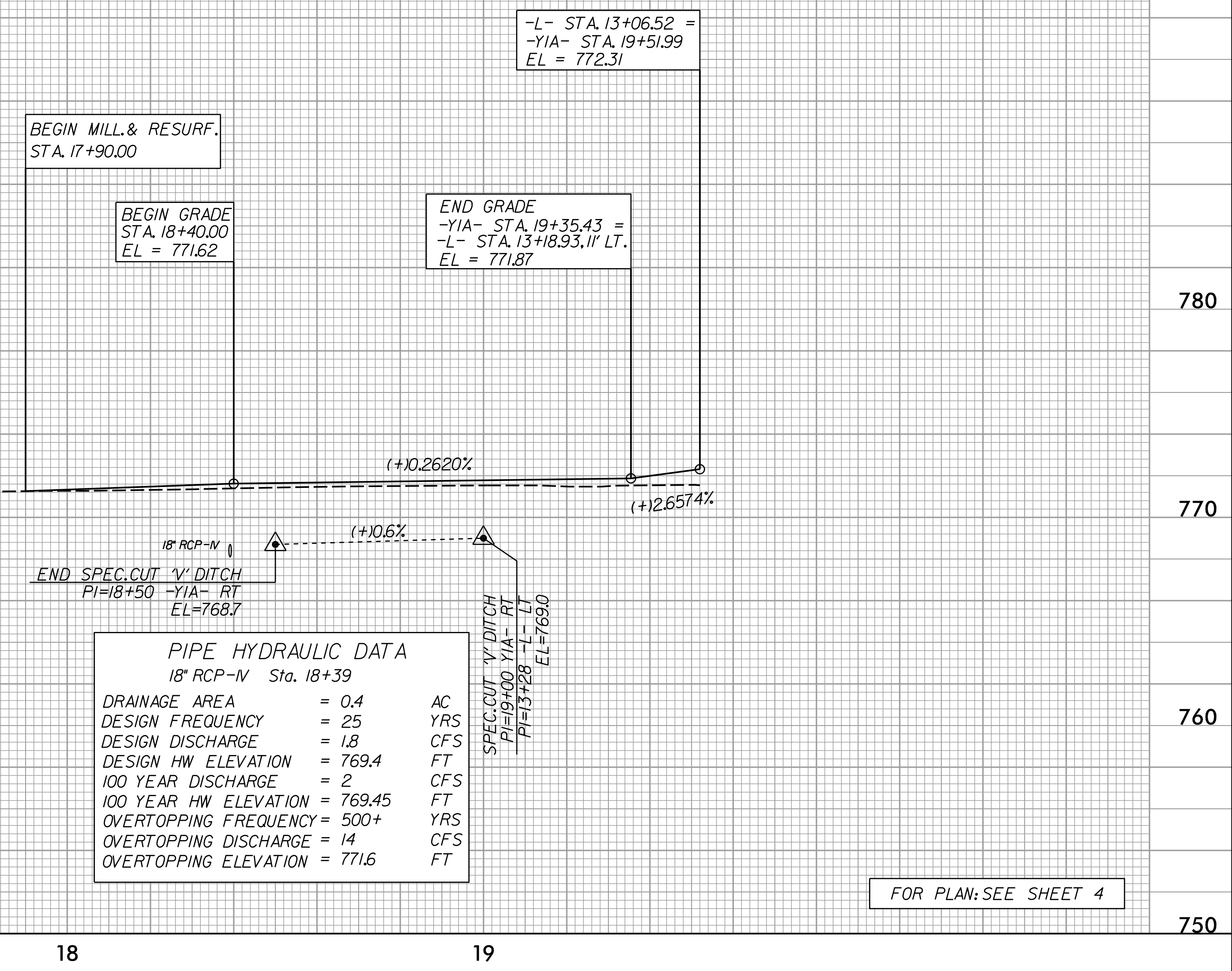
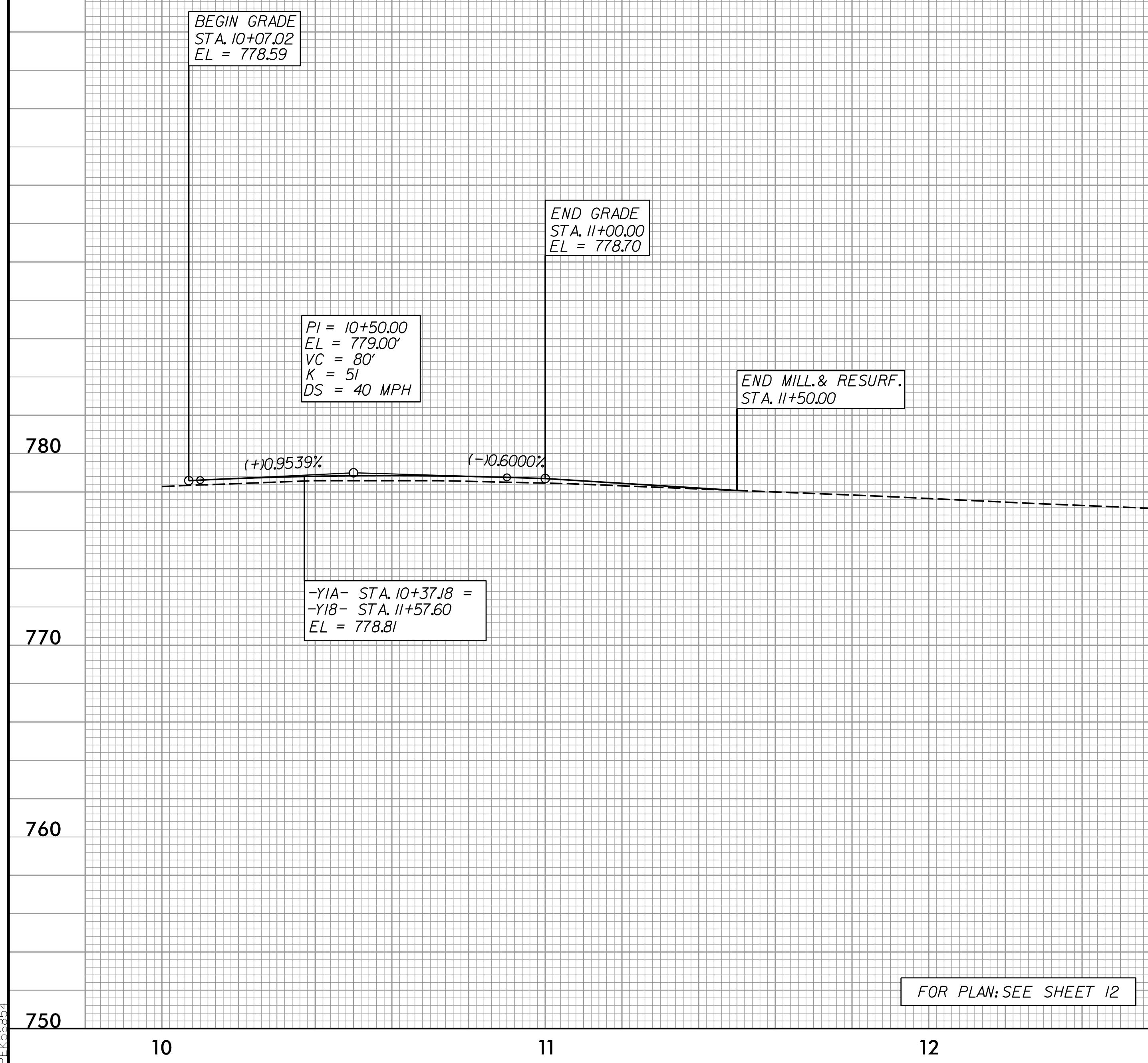
PROJECT REFERENCE NO. <b>Y-4810K</b>	SHEET NO. <b>29</b>
ROADWAY DESIGN ENGINEER SEAL 27391 MOTT MACDONALD 1 & E, LLC LICENSE NO. F-06697	HYDRAULICS ENGINEER SEAL 26971 MOTT MACDONALD 1 & E, LLC LICENSE NO. C-890

**DOCUMENT NOT CONSIDERED FINAL  
UNLESS ALL SIGNATURES COMPLETED**

Prepared in the Office of: **M**  
MOTT MACDONALD 7621 Purfoy Road, Suite 115  
Fuquay-Varina, NC 27526  
www.mottmac.com/north-america

**-Y1A-**

**-Y1A-**



18" RCP-IV  
END SPEC. CUT "V" DITCH  
PI=18+50 -Y1A- RT  
EL=768.7

PIPE HYDRAULIC DATA		
18" RCP-IV Sta. 18+39		
DRAINAGE AREA	= 0.4	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 1.8	CFS
DESIGN HW ELEVATION	= 769.4	FT
100 YEAR DISCHARGE	= 2	CFS
100 YEAR HW ELEVATION	= 769.45	FT
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING DISCHARGE	= 14	CFS
OVERTOPPING ELEVATION	= 771.6	FT

SPEC. CUT "V" DITCH  
PI=19+00 -Y1A- RT  
PI=13+28 -L- LT  
EL=769.0

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