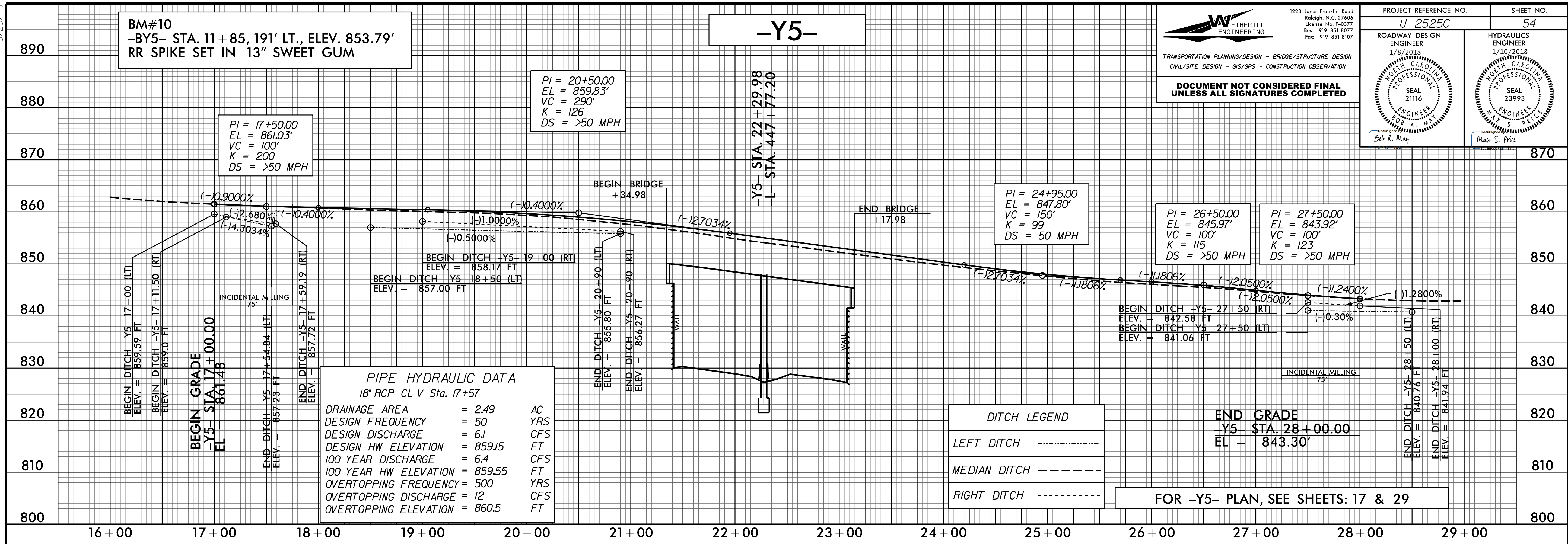


5/28/2017

12/6/2017 11:58:30 AM U:\2525c_rdy_psh_54.pfl.dgn



BM#10
 -BY5- STA. 11+85, 191' LT., ELEV. 853.79'
 RR SPIKE SET IN 13" SWEET GUM

-Y5-

WETHERILL ENGINEERING
 1223 Jones Franklin Road
 Raleigh, N.C. 27606
 License No. F-0377
 Bus: 919 851 8077
 Fax: 919 851 8107

TRANSPORTATION PLANNING/DESIGN - BRIDGE/STRUCTURE DESIGN
 CIVIL/SITE DESIGN - GIS/GPS - CONSTRUCTION OBSERVATION

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

PROJECT REFERENCE NO. U-2525C	SHEET NO. 54
ROADWAY DESIGN ENGINEER 1/8/2018 SEAL 21116 E. R. May	HYDRAULICS ENGINEER 1/10/2018 SEAL 23993 M. S. Price

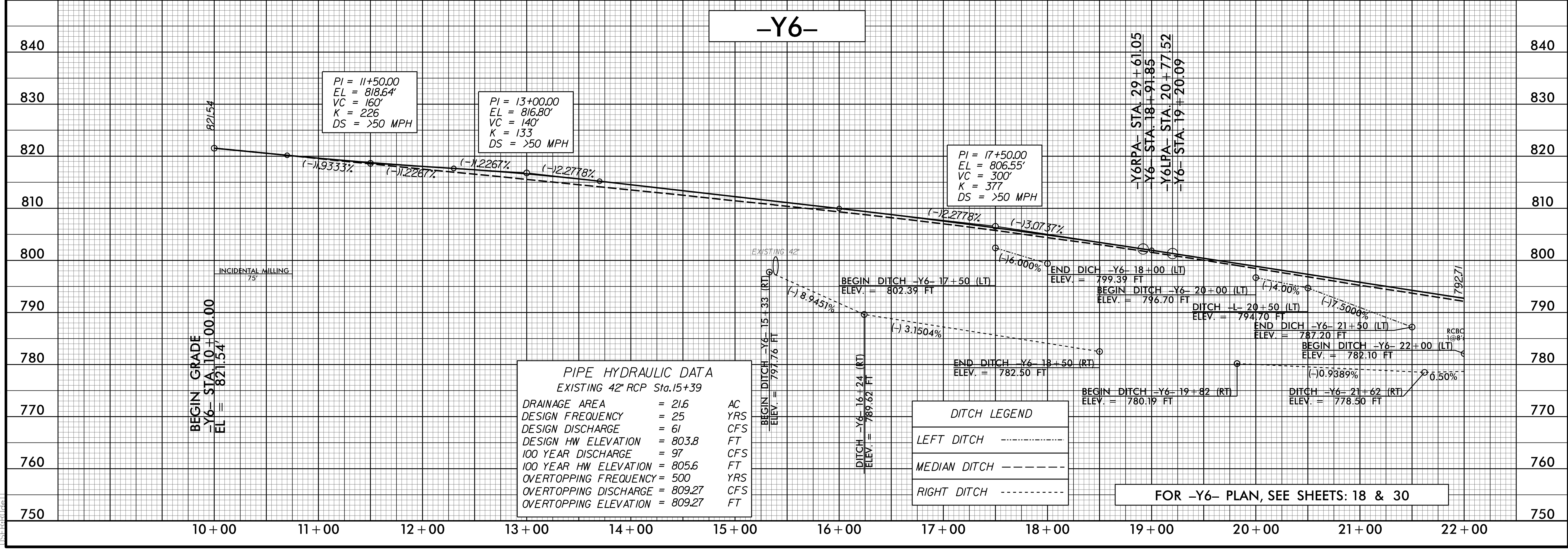
PIPE HYDRAULIC DATA
 18" RCP CL V Sta. 17+57

DRAINAGE AREA	= 2.49	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 6J	CFS
DESIGN HW ELEVATION	= 859J5	FT
100 YEAR DISCHARGE	= 6.4	CFS
100 YEAR HW ELEVATION	= 859.55	FT
OVERTOPPING FREQUENCY	= 500	YRS
OVERTOPPING DISCHARGE	= 12	CFS
OVERTOPPING ELEVATION	= 860.5	FT

DITCH LEGEND

LEFT DITCH	-----
MEDIAN DITCH	-----
RIGHT DITCH	-----

FOR -Y5- PLAN, SEE SHEETS: 17 & 29



-Y6-

PIPE HYDRAULIC DATA
 EXISTING 42" RCP Sta. 15+39

DRAINAGE AREA	= 21.6	AC
DESIGN FREQUENCY	= 25	YRS
DESIGN DISCHARGE	= 6I	CFS
DESIGN HW ELEVATION	= 803.8	FT
100 YEAR DISCHARGE	= 97	CFS
100 YEAR HW ELEVATION	= 805.6	FT
OVERTOPPING FREQUENCY	= 500	YRS
OVERTOPPING DISCHARGE	= 809.27	CFS
OVERTOPPING ELEVATION	= 809.27	FT

DITCH LEGEND

LEFT DITCH	-----
MEDIAN DITCH	-----
RIGHT DITCH	-----

FOR -Y6- PLAN, SEE SHEETS: 18 & 30