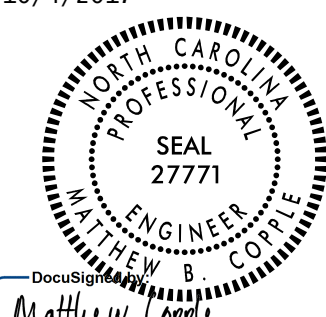
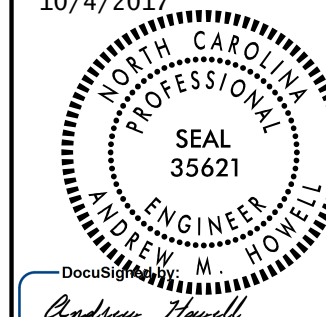


ROADWAY DESIGN ENGINEER 10/4/2017  Matthew Apple	HYDRAULICS ENGINEER 10/4/2017  Andrew Howell
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

SEPI ENGINEERING & CONSTRUCTION
 1025 Wade Avenue
 Raleigh, NC 27605
 Tel: 919-789-9977
 Fax: 919-789-9591
 License: C-2197

PIPE HYDRAULIC DATA
 * Existing 24" RCP Sta. 116+38

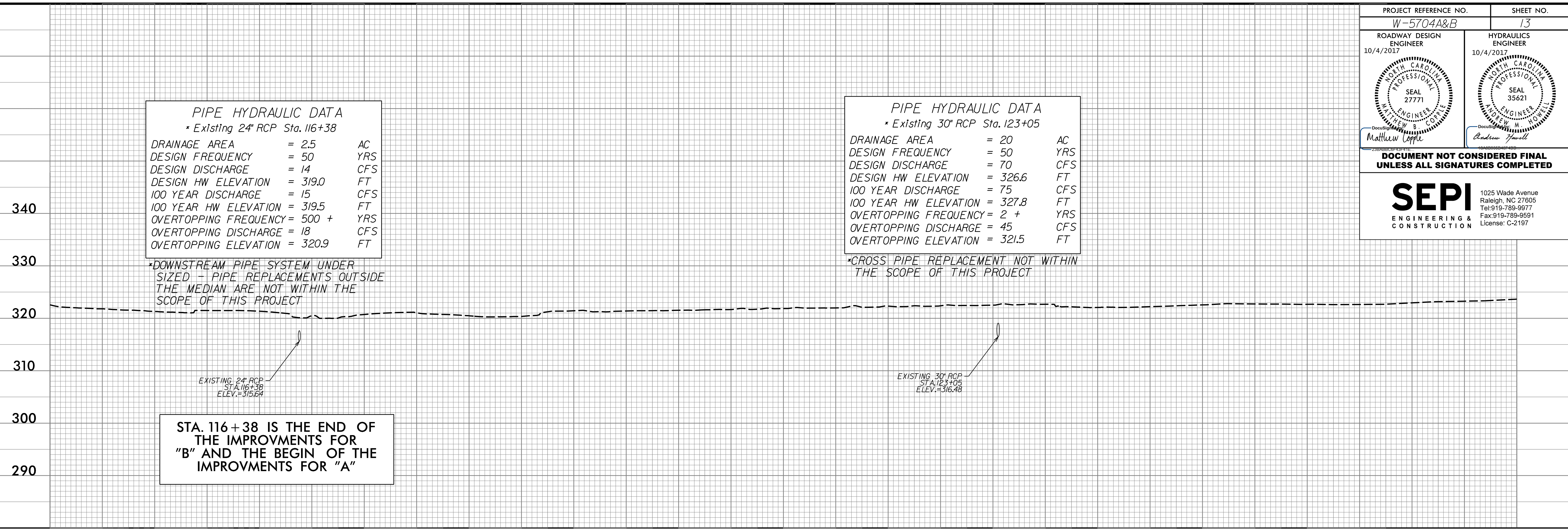
DRAINAGE AREA	= 2.5	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 14	CFS
DESIGN HW ELEVATION	= 319.0	FT
100 YEAR DISCHARGE	= 15	CFS
100 YEAR HW ELEVATION	= 319.5	FT
OVERTOPPING FREQUENCY	= 500 +	YRS
OVERTOPPING DISCHARGE	= 18	CFS
OVERTOPPING ELEVATION	= 320.9	FT

PIPE HYDRAULIC DATA
 * Existing 30" RCP Sta. 123+05

DRAINAGE AREA	= 20	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 70	CFS
DESIGN HW ELEVATION	= 326.6	FT
100 YEAR DISCHARGE	= 75	CFS
100 YEAR HW ELEVATION	= 327.8	FT
OVERTOPPING FREQUENCY	= 2 +	YRS
OVERTOPPING DISCHARGE	= 45	CFS
OVERTOPPING ELEVATION	= 321.5	FT

*DOWNSTREAM PIPE SYSTEM UNDER SIZED - PIPE REPLACEMENTS OUTSIDE THE MEDIAN ARE NOT WITHIN THE SCOPE OF THIS PROJECT

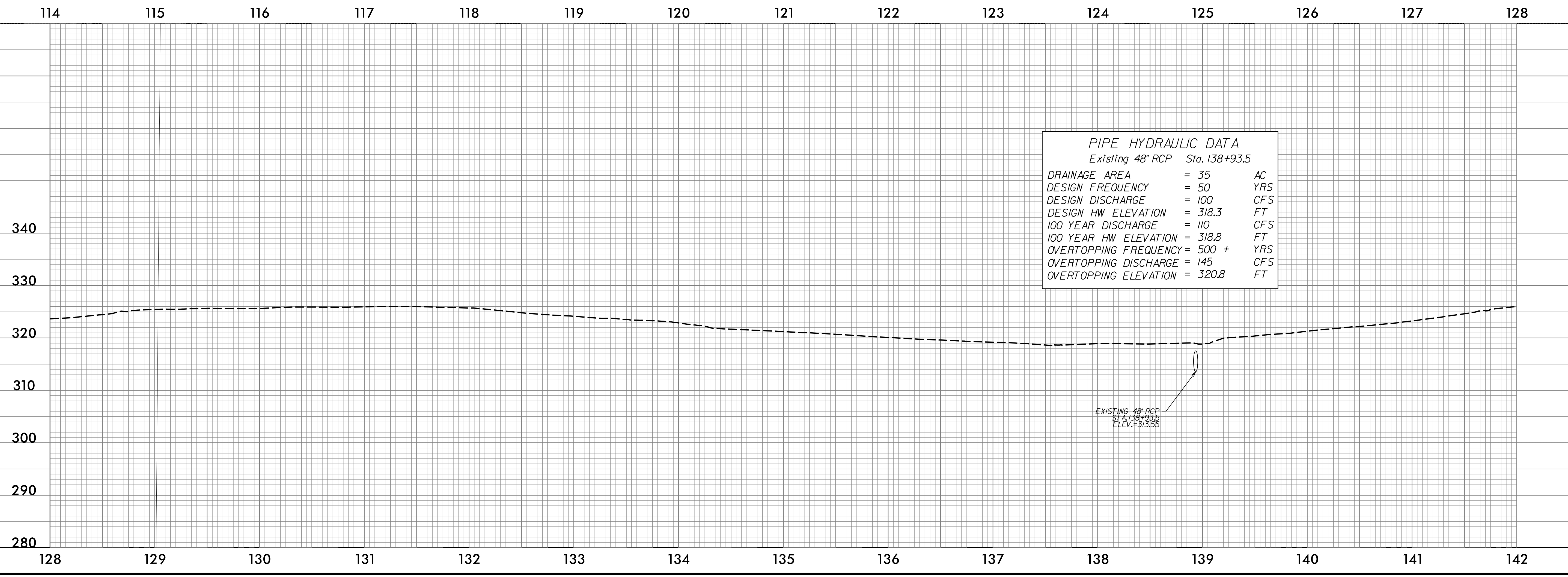
*CROSS PIPE REPLACEMENT NOT WITHIN THE SCOPE OF THIS PROJECT



STA. 116 + 38 IS THE END OF THE IMPROVEMENTS FOR "B" AND THE BEGIN OF THE IMPROVEMENTS FOR "A"

PIPE HYDRAULIC DATA
 Existing 48" RCP Sta. 138+93.5

DRAINAGE AREA	= 35	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 100	CFS
DESIGN HW ELEVATION	= 318.3	FT
100 YEAR DISCHARGE	= 110	CFS
100 YEAR HW ELEVATION	= 318.8	FT
OVERTOPPING FREQUENCY	= 500 +	YRS
OVERTOPPING DISCHARGE	= 145	CFS
OVERTOPPING ELEVATION	= 320.8	FT



EXISTING 48" RCP STA. 138+93.5 ELEV. = 313.55