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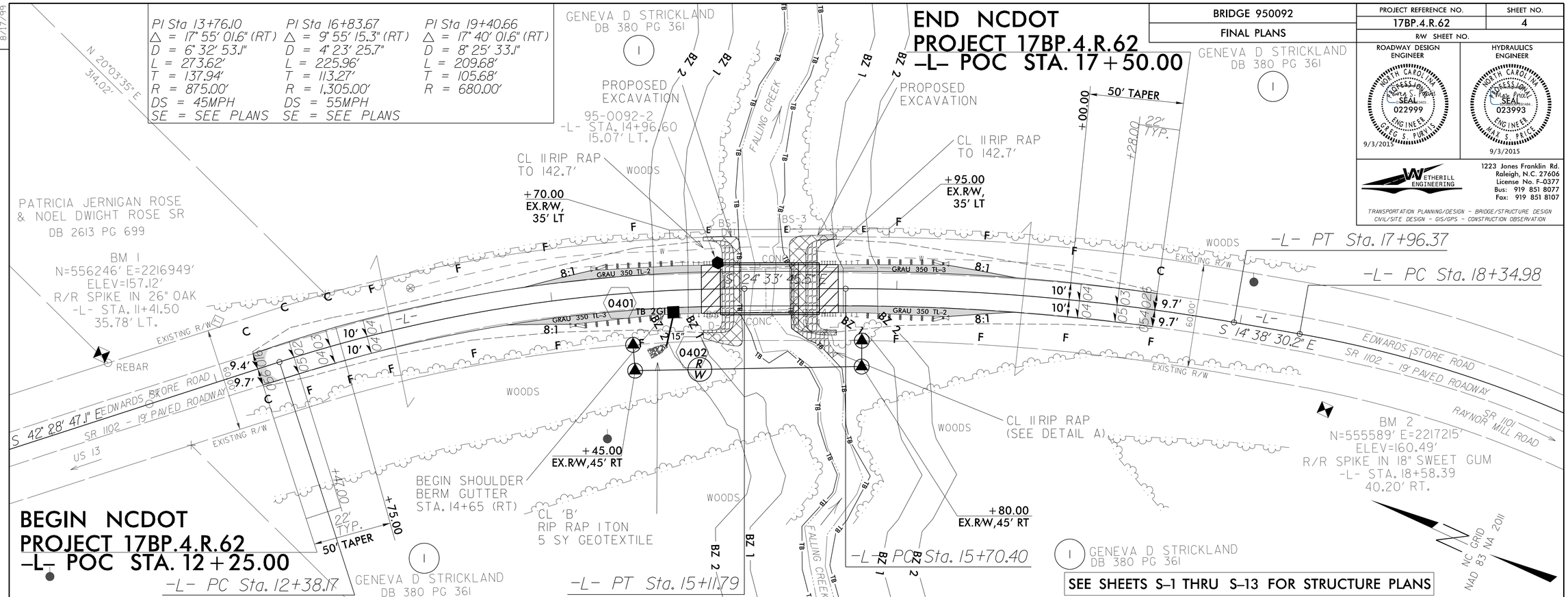
BRIDGE 950092	PROJECT REFERENCE NO.	SHEET NO.
FINAL PLANS	17BP.4.R.62	4
	R/W SHEET NO.	

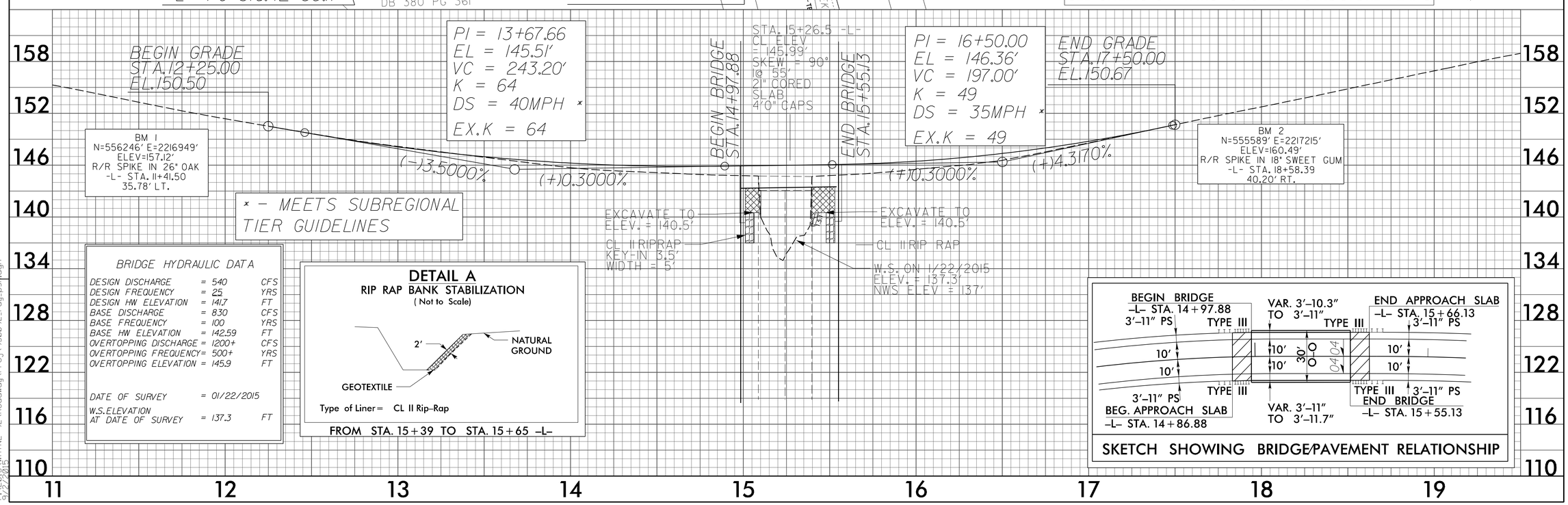
ROADWAY DESIGN ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 022999 ENGINEER GREG S. PURVIS — 9/3/2015

HYDRAULICS ENGINEER: NORTH CAROLINA PROFESSIONAL SEAL 023993 ENGINEER MAX S. PRICE — 9/3/2015

WETHERILL ENGINEERING
1223 Jones Franklin Rd.
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

PI Sta 13+76.10	PI Sta 16+83.67	PI Sta 19+40.66
Δ = 17° 55′ 01.6″ (RT)	Δ = 9° 55′ 15.3″ (RT)	Δ = 17° 40′ 01.6″ (RT)
D = 6° 32′ 53.1″	D = 4° 23′ 25.7″	D = 8° 25′ 33.1″
L = 273.62′	L = 225.96′	L = 209.68′
T = 137.94′	T = 113.27′	T = 105.68′
R = 875.00′	R = 1,305.00′	R = 680.00′
DS = 45MPH	DS = 55MPH	
SE = SEE PLANS	SE = SEE PLANS	





BRIDGE HYDRAULIC DATA

DESIGN DISCHARGE	= 540	CFS
DESIGN FREQUENCY	= 25	YRS
DESIGN HW ELEVATION	= 141.7	FT
BASE DISCHARGE	= 830	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 142.59	FT
OVERTOPPING DISCHARGE	= 1200+	CFS
OVERTOPPING FREQUENCY	= 500+	YRS
OVERTOPPING ELEVATION	= 145.9	FT
DATE OF SURVEY	= 01/22/2015	
W.S. ELEVATION AT DATE OF SURVEY	= 137.3	FT

DETAIL A
RIP RAP BANK STABILIZATION
(Not to Scale)

Type of Liner = CL II Rip-Rap

FROM STA. 15+39 TO STA. 15+65 –L–

SKETCH SHOWING BRIDGE/PAVEMENT RELATIONSHIP

REVISIONS

8/17/99

10:59 PM
WAYNE 92\Roadway\Proj\950092_rdy_pst.dgn
9/2/2015