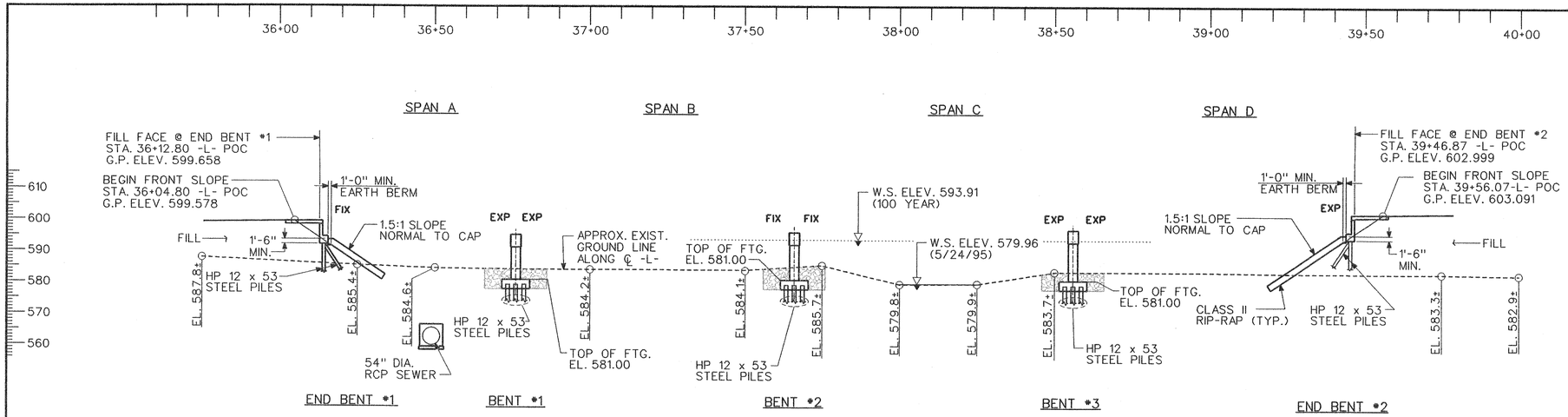
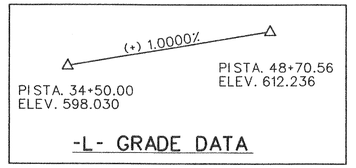
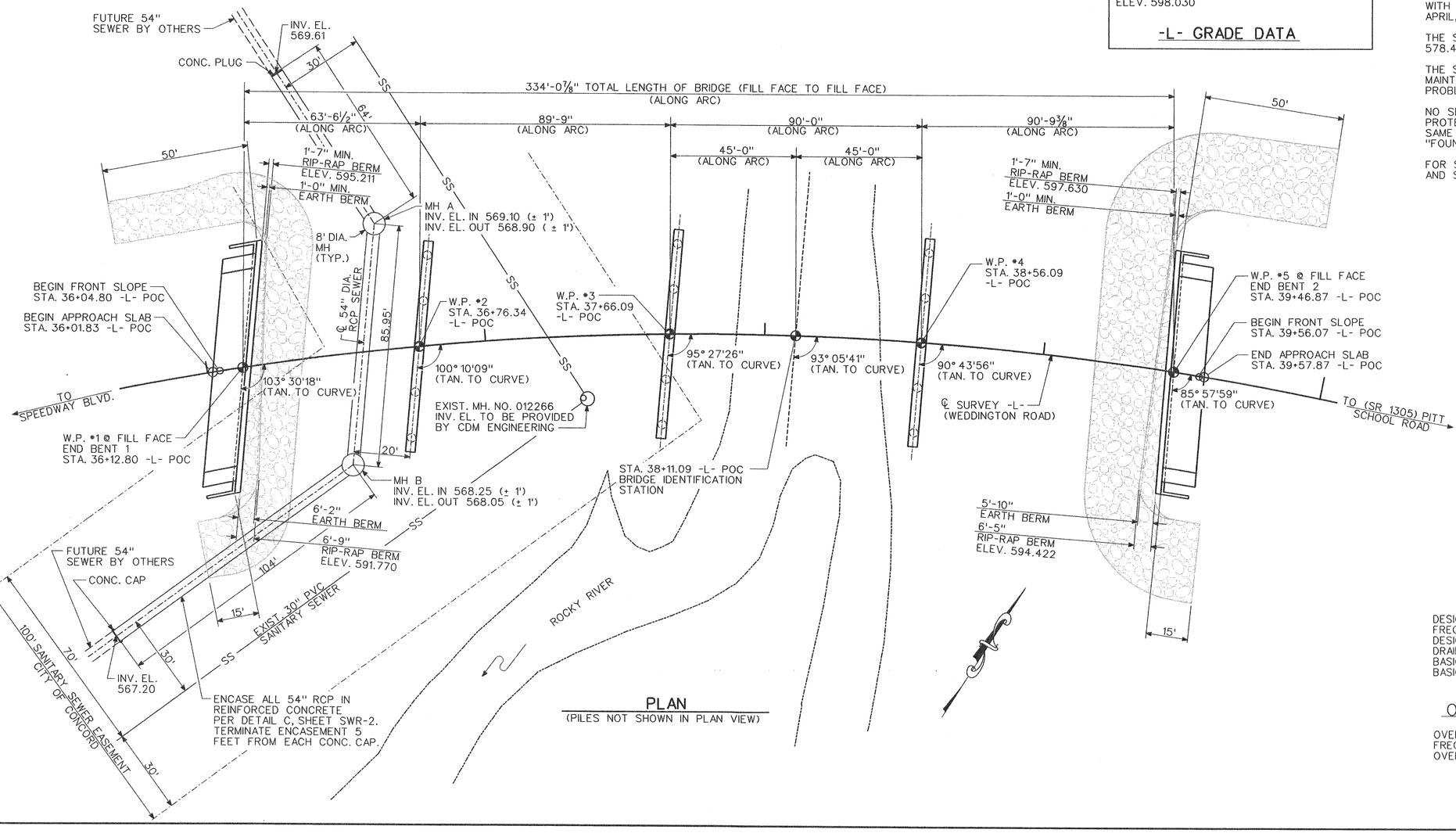


SECTION ALONG ℄ SURVEY -L- (WEDDINGTON ROAD)

(BENTS ON SECTION AT RIGHT ANGLES TO BENTS)



-L- GRADE DATA



PLAN

(PILES NOT SHOWN IN PLAN VIEW)

PI =	38+39.86
Δ =	39° 18'58.27" RT.
D =	5° 15'00"
L =	748.88'
T =	389.86'
R =	1091.35'
Se =	0.04 f/f

-L- CURVE DATA

HYDRAULIC DATA

DESIGN DISCHARGE	= 10070 CFS
FREQUENCY OF DESIGN FLOOD	= 50 YEARS
DESIGN HIGH WATER ELEVATION	= 592.96
DRAINAGE AREA	= 87 SQ. MI.
BASIC DISCHARGE (Q100)	= 12060 CFS
BASIC HIGH WATER ELEVATION	= 593.91

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE	= 22000 CFS
FREQUENCY OF OVERTOPPING FLOOD	= 500 YEARS
OVERTOPPING FLOOD ELEVATION	= 596.37

GENERAL NOTES

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NORTH CAROLINA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES", JULY 1995 WITH INTERIMS.

ASSUMED LIVE LOAD = HS 20-44 OR ALTERNATE LOADING.

FOR OTHER DESIGN DATA AND GENERAL NOTES, SEE SHEET S-N.

FOR REINFORCED CONCRETE DECK SLAB, SEE SPECIAL PROVISIONS.

FOR FABRICATED METAL STAY-IN-PLACE FORMS, SEE SPECIAL PROVISIONS.

FOR CURING BRIDGE DECK SLABS, SEE THE SPECIAL PROVISION "REINFORCED CONCRETE DECK SLAB."

THIS BRIDGE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF THE "STANDARD SPECIFICATIONS FOR SEISMIC DESIGN OF HIGHWAY BRIDGES" FOR SEISMIC PERFORMANCE CATEGORY A.

THE CONTRACTOR SHALL OBSERVE A 3 MONTH WAITING PERIOD BETWEEN THE TIME THE EMBANKMENT FILL IS COMPLETED AND THE TIME THAT END BENT PILES ARE DRIVEN.

PILES FOR BENTS AND END BENTS SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 50 TONS EACH.

STEEL PILE POINTS ARE REQUIRED FOR PILES AT END BENTS AND BENTS.

FOR STEEL PILE POINTS, SEE SPECIAL PROVISIONS.

THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE HEC 18," EVALUATING SCOUR AT BRIDGES", APRIL, 1993.

THE SCOUR CRITICAL ELEVATION FOR BENT 1 IS 578.420, BENT 2 IS 578.790, AND BENT 3 IS 577.740.

THE SCOUR CRITICAL ELEVATIONS ARE FOR USE BY MAINTENANCE FORCES TO MONITOR POSSIBLE SCOUR PROBLEMS DURING THE LIFE OF THE STRUCTURE.

NO SEPARATE PAYMENT WILL BE MADE FOR PIER SCOUR PROTECTION @ BENTS 1 THRU 3. THE ENTIRE COST OF SAME SHALL BE INCLUDED IN THE LUMP SUM PRICE FOR "FOUNDATION EXCAVATION."

FOR SEWER AND MANHOLE DETAILS, SEE DRAWINGS SWR-1 AND SWR-2.

PBSJ
3114 SPRING FOREST ROAD
RALEIGH, NORTH CAROLINA 27616
P.O. BOX 31388
RALEIGH, NC 27622
PH. (919) 876-6888
FAX (919) 876-6848

NORTH CAROLINA PROFESSIONAL SEAL 019096 ENGINEER DAVID T. STEVENS

CITY OF CONCORD

DESCRIPTION: GENERAL DRAWING FOR BRIDGE ON WEDDINGTON ROAD OVER ROCKY RIVER

DATE: 5/99

TECHNICIAN: AR

CHECKED BY: DS

REVISIONS

NO.	DATE

SCALE: 1" = 20'

PROJ. NO. 28082.80

SHEET NO. 1 of 4

DRAWING NO. S1