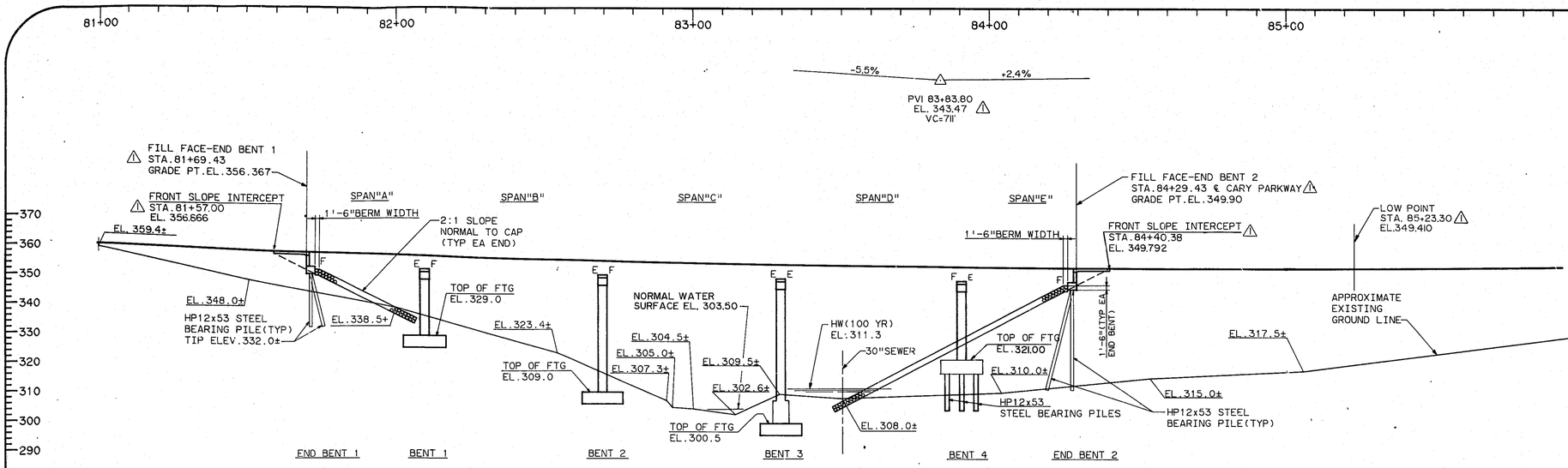
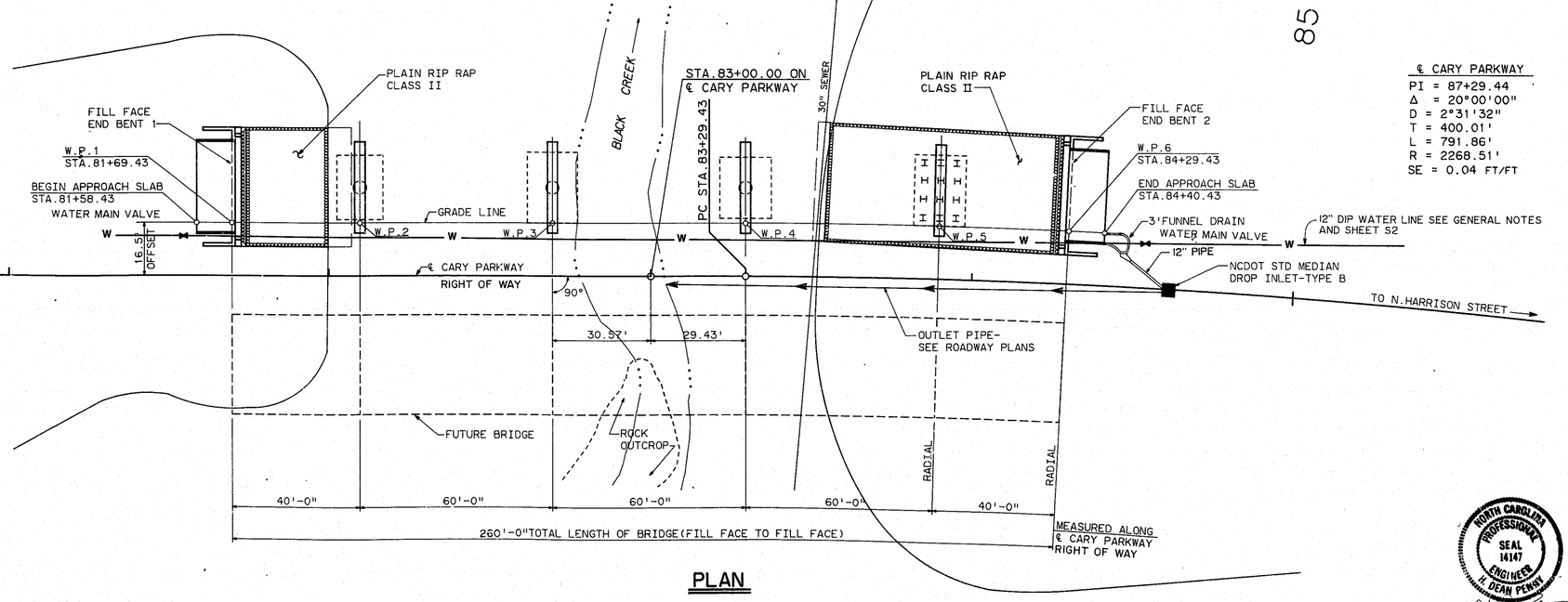


SECTION ALONG GRADE LINE



PLAN

℄ CARY PARKWAY
PI = 87+29.44
Δ = 20°00'00"
D = 2°31'32"
T = 400.01'
L = 791.86'
R = 2268.51'
SE = 0.04 FT/FT

HYDROGRAPHIC DATA:

DESIGN DISCHARGE	1900 CFS
FREQUENCY OF DESIGN DISCHARGE	100 YEAR
DESIGN HIGH WATER	310.9 +0.4'
DRAINAGE AREA	2.60 SQ.MI.
BASIC DISCHARGE(Q100)	1900 CFS
OVERTOPPING FLOOD EXCEEDS	500 YEAR.

GENERAL NOTES

ASSUMED LIVE LOAD HS20-44 OR ALTERNATE LOADING.

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

FOR REINFORCED CONCRETE DECK SLAB, SEE SPECIAL PROVISIONS.

FOR PRESTRESSED CONCRETE PANELS, SEE SPECIAL PROVISIONS.

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

ALL REINFORCING STEEL SHALL BE GRADE 60.

FOR EPOXY PROTECTIVE COATING, SEE SPECIAL PROVISIONS.

FOR EPOXY COATED REINFORCING STEEL, SEE SPECIAL PROVISIONS.

FOR 12" DIP WATER LINE, SEE SPECIAL PROVISIONS

CONTRACTOR IS TO TAKE ALL PRECAUTIONS NECESSARY TO MAINTAIN AND PROTECT THE EXISTING ROCK OUTCROP ON THE CONSTRUCTION SITE. THE OUTCROP IS NOT TO BE DISTURBED BY THE CONSTRUCTION PROCESS AND AT THE END OF THE CONSTRUCTION PERIOD THE OUTCROP IS TO BE LEFT IN THE SAME CONDITION AS IT CURRENTLY EXISTS.

CONTRACTOR IS TO TAKE ALL PRECAUTIONS NECESSARY TO PROTECT ALL EXISTING UTILITIES, INCLUDING THE EXISTING 30" SANITARY SEWERLINE SHOWN ON SHEET R1. (CONTRACTOR IS TO VERIFY LOCATION OF ALL UTILITIES.)

FOUNDATIONS

COMPUTED FOUNDATION LOAD FOR BENT NOS. 1-3 EQUALS 2.5 TONS PER SQ. FT. FOOTINGS SHALL BE CARRIED AT LEAST 12' INTO ROCK WITH MINIMUM THICKNESS AS SHOWN ON PLANS. PILES FOR END BENT 1 SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 50 TONS EACH WITH PENETRATION AT LEAST TO EL.332.0. THE CONTRACTOR'S ATTENTION IS CALLED TO THE FACT THAT IT MAY BE NECESSARY TO DRILL IN ORDER TO ATTAIN THIS PENETRATION. IF DRILLING IS REQUIRED, THE PILE SHALL BE PLACED IN THE DRILLED HOLE AND DRIVEN TO A MINIMUM BEARING CAPACITY OF 50 TONS EACH.

PILES FOR BENT 4 AND END BENT 2 SHALL BE DRIVEN TO A MINIMUM BEARING CAPACITY OF 50 TONS EACH.

NORTH CAROLINA PROFESSIONAL SEAL 14147 ENGINEER H. DEAN PENNY
10/10/89

Kimley-Horn
Kimley-Horn & Associates, Inc.
901 Jones Franklin Road
Raleigh, N.C. 27606

ENGINEERING DEPARTMENT
CARY, N.C.

SEAL

PROJECT
CARY PARKWAY
OVER BLACK CREEK
STA.83+00 ON CARY PARKWAY

GENERAL DRAWING

DATE 07/05/88

SCALE 1"=20'

SHEET S1 OF 26

DRAWN BY LSJ/CADD

REVISIONS
⚠ REVISED VERTICAL ALIGNMENT. (2/1/90)

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