

p:\gfn\pw\ben\ben\pw-01\Documents\Projects\63639\Task 010 B-4626\Discipline\Struct\Drawn\Rowan 3\Archives\Delete\401\_005\_B4626\_SMU\_GD01\_790003\_001 9/2/2021 3:57:24 PM pdf\_color\_gfclt\_FS.plt Rowan.pen.tbl

\*\* HYDRULIC DATA OBTAINED FROM ADJACENT BRIDGE (BRIDGE NO. 790008) PLANS DATED MARCH 1996.

(-).0.7112% (+).2.0000%  
 PI = 32+10.00  
 EL. = 578.31  
 VC = 450'

GRADE DATA -EBL- SPAN A SPAN B SPAN C SPAN D SPAN E

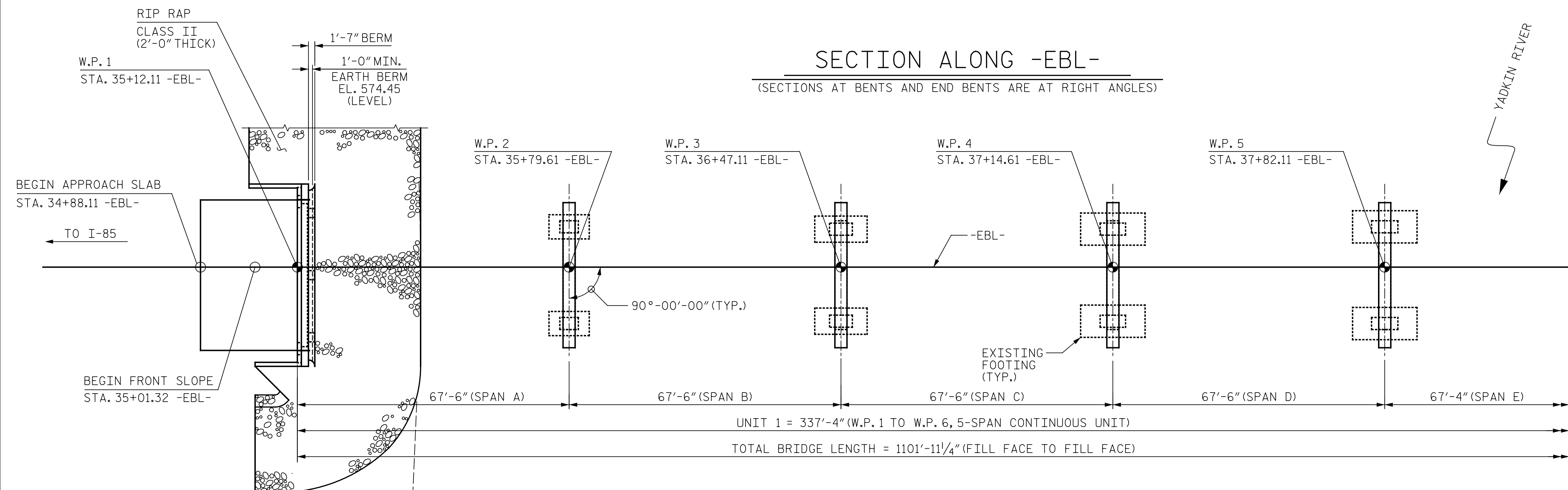
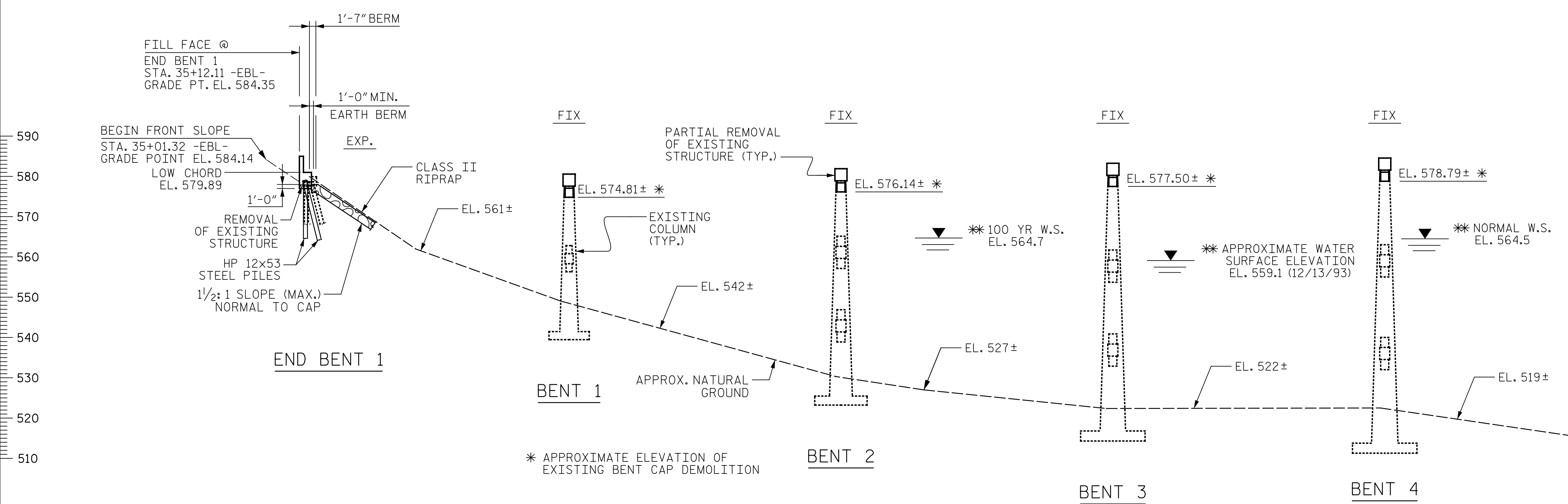
**\*\* HYDRAULIC DATA**

|                               |   |               |
|-------------------------------|---|---------------|
| DESIGN DISCHARGE              | = | 129,271 CFS   |
| FREQUENCY OF DESIGN DISCHARGE | = | 50 YEAR       |
| DESIGN HIGH WATER ELEVATION   | = | 564.7         |
| DRAINAGE AREA                 | = | 4,120 SQ. MI. |
| BASE DISCHARGE (Q100)         | = | 150,816 CFS   |
| BASE HIGH WATER ELEVATION     | = | 564.7         |

**\*\* OVERTOPPING FLOOD DATA**

|                                |   |         |
|--------------------------------|---|---------|
| OVERTOPPING DISCHARGE          | = | N/A     |
| FREQUENCY OF OVERTOPPING FLOOD | = | >500 YR |
| OVERTOPPING ELEVATION          | = | 581.4   |

- SCOPE OF WORK**
- REMOVE EXISTING CONCRETE DECK AND STEEL SUPERSTRUCTURE.
  - REMOVE EXISTING CONCRETE END BENT CAPS AND CUT STEEL PILES ONE FOOT BELOW GROUNDLINE.
  - REMOVE EXISTING CONCRETE BENT CAPS & PORTIONS OF COLUMNS.
  - CONSTRUCT END BENTS AND BENT CAPS.
  - PLACE STEEL BEAM AND PLATE GIRDERS ON ELASTOMERIC BEARINGS.
  - PLACE CONCRETE DECK AND BARRIER RAILS, AND INSTALL STRIP SEAL JOINTS.
  - PLACE APPROACH SLABS.
  - PLACE RIP RAP AT END BENTS.
  - REMOVE UNSOUND CONCRETE AND PROPERLY PREPARE EXISTING BENT COLUMNS FOR SHOTCRETE REPAIRS AND EPOXY RESIN INJECTION.



**NOTES:**  
 GENERAL DRAWING INFORMATION IS TAKEN FROM THE FIELD AND LOCATION SURVEYS, THE ORIGINAL PLANS AND THE ROUTINE INSPECTION REPORT DATED 12/22/2016.  
 BRIDGE ORIENTATION CONFORMS TO THE EXISTING PLANS AND THE FIELD AND LOCATION SURVEYS.

DRAWN BY : T. HARTLEY/J. MYA DATE : 06/2020  
 CHECKED BY : J. YANACCONI DATE : 05/2021  
 DESIGN ENGINEER OF RECORD: R. NELSON DATE : 05/2021

PLANS PREPARED BY:  
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DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

I HEREBY CERTIFY THESE PLANS ARE THE AS-BUILT PLANS

PROJECT NO. B-4626  
 STANLY, ROWAN  
 AND DAVIDSON COUNTY  
 STATION: 45+22.65 -EBL-

MILE POST #44.80 WIDENING AND REHABILITATION OF BRIDGE NO. 790003  
 SHEET 1 OF 8

|  |     |       |     |     |                  |
|--|-----|-------|-----|-----|------------------|
| STATE OF NORTH CAROLINA<br>DEPARTMENT OF TRANSPORTATION<br>RALEIGH   |     |       |     |     |                  |
| GENERAL DRAWING<br>FOR BRIDGE OVER YADKIN RIVER AND WINSTON-SALEM SOUTHBOUND RR ON NC 8/49 BETWEEN SR 1578 AND SR 2543 |     |       |     |     |                  |
| REVISIONS  |     |       |     |     |                  |
| NO.  | BY: | DATE: | NO. | BY: | DATE:            |
| 1  |     |       | 3   |     |                  |
| 2  |     |       | 4   |     |                  |
| SHEET NO. S1-1   |     |       |     |     | TOTAL SHEETS 125 |