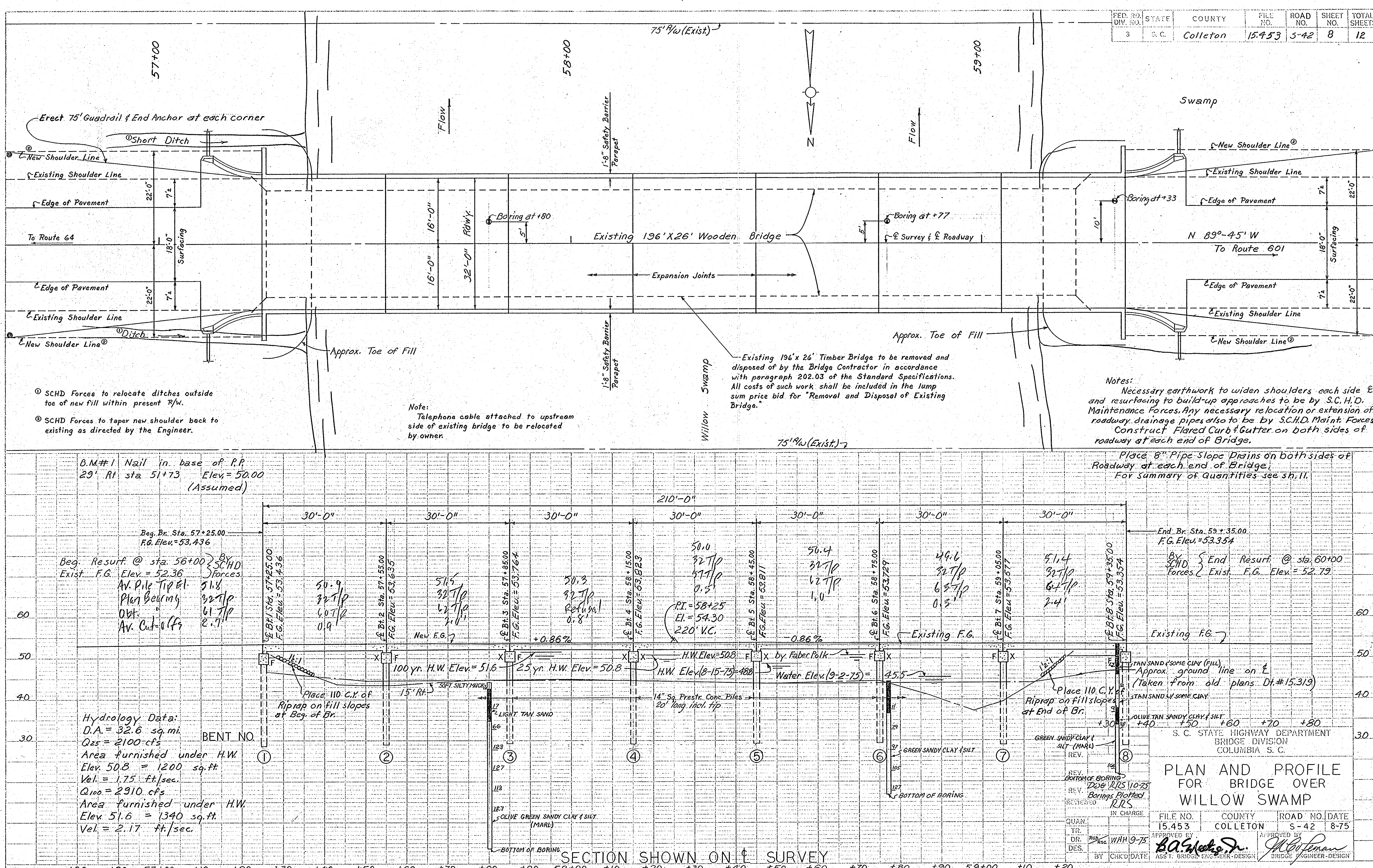

FED. RD. DIV. NO. 3 | STATE S.C. | COUNTY Colleton | FILE NO. 15.453 | ROAD NO. S-42 | SHEET NO. 8 | TOTAL SHEETS 12
75' R/W (Exist.)
57+00
58+00
59+00
N
Flow
Swamp
Erect 75' Guadrail & End Anchor at each corner
① Short Ditch
℄ New Shoulder Line ②
℄ Existing Shoulder Line
℄ Edge of Pavement
To Route 64
1'-8" Safety Barrier Parapet
Boring at +80
Existing 196'X26' Wooden Bridge
Boring at +77
℄ Survey & ℄ Roadway
Boring at +33
N 89°-45' W
To Route 601
Expansion Joints
16'-0"
32'-0"
Rdw'y.
18'-0" Surfacing
22'-0"
① Ditch
Approx. Toe of Fill
Willow Swamp
Existing 196'x 26' Timber Bridge to be removed and disposed of by the Bridge Contractor in accordance with paragraph 202.03 of the Standard Specifications. All costs of such work shall be included in the lump sum price bid for "Removal and Disposal of Existing Bridge."
① SCHD Forces to relocate ditches outside toe of new fill within present R/W.
② SCHD Forces to taper new shoulder back to existing as directed by the Engineer.
Note: Telephone cable attached to upstream side of existing bridge to be relocated by owner.
Notes: Necessary earthwork to widen shoulders each side & and resurfacing to build-up approaches to be by S.C.H.D. Maintenance Forces. Any necessary relocation or extension of roadway drainage pipes also to be by S.C.H.D. Maint. Forces
Construct Flared Curb & Gutter on both sides of roadway at each end of Bridge.
Place 8" Pipe Slope Drains on both sides of Roadway at each end of Bridge.
For Summary of Quantities see sh. 11.
B.M.#1 Nail in base of P.P. 29' Rt sta 51+73 Elev.= 50.00 (Assumed)
210'-0"
30'-0"
Beg. Br. Sta. 57+25.00 F.G. Elev.=53.436
End Br. Sta. 59+35.00 F.G. Elev.=53.354
Beg. Resurf. @ sta. 56+00 Exist. F.G. Elev.=52.36 By SCHD Forces
By SCHD Forces End Resurf. @ sta. 60+00 Exist. F.G. Elev.=52.79
Av. Pile Tip El. 51.8
Plan Bearing 32 T/P
Obt. 61 T/P
Av. Cut-offs 2.7
P.I.=58+25 El.=54.30 220' V.C.
+0.86%
-0.86%
New F.G.
Existing F.G.
H.W. Elev.=50.8
100 yr. H.W. Elev.=51.6
25 yr. H.W. Elev.=50.8
H.W. Elev. (8-15-75)=48.8
by Faber Polk
Water Elev. (9-2-75)=45.5
Place 110 C.Y. of Riprap on fill slopes at Beg. of Br.
Place 110 C.Y. of Riprap on fill slopes at End of Br.
15' Rt.
14" Sq. Prestr. Conc. Piles 20' long incl. tip
Approx. ground line on ℄ (Taken from old plans Dt. #15.319)
SOFT SILTY MUCK
LIGHT TAN SAND
OLIVE GREEN SANDY CLAY & SILT (MARL)
BOTTOM OF BORING
TAN SAND & SOME CLAY (FILL)
TAN SAND W/ SOME CLAY
OLIVE TAN SANDY CLAY & SILT
GREEN SANDY CLAY & SILT
GREEN SANDY CLAY & SILT (MARL)
BENT NO.
Hydrology Data:
D.A. = 32.6 sq. mi.
Q25 = 2100 cfs
Area furnished under H.W. Elev. 50.8 = 1200 sq. ft.
Vel. = 1.75 ft./sec.
Q100 = 2910 cfs
Area furnished under H.W. Elev. 51.6 = 1340 sq. ft.
Vel. = 2.17 ft./sec.
SECTION SHOWN ON ℄ SURVEY
S. C. STATE HIGHWAY DEPARTMENT
BRIDGE DIVISION
COLUMBIA S. C.
PLAN AND PROFILE FOR BRIDGE OVER WILLOW SWAMP
FILE NO. 15.453 | COUNTY COLLETON | ROAD NO. S-42 | DATE 8-75
Borings Plotted
IN CHARGE
APPROVED BY ASST. BRIDGE ENGINEER-DESIGN
APPROVED BY BRIDGE ENGINEER-DESIGN