B17154BP.DGN

SHEET NO.	TOTAL SHEETS
6	17

Remove Existing 90' x 24.3' Precast Bridge In Accordance with Sect. 202.03 of the Standard Specifications.

Note: Bituminous Curbs and Flumes not shown. See Road Plans for details.

For Method of Superelevation, See Sh. 7.

17-00 | 18-00 | 19-00

G

Barrier Parapet 1'-5"

Gas Line

Thrie Beam Guardrail Typ. See Road Plans for Details.

Edge of Shoulder

Beg. Br. & Defl. Jt.

Boring #1 Sta. 16+98 10' Left of ℄

℄ Bent 2 & Exp. Jt.

Boring #4 Sta. 17+50 13' Left of ℄

34'-0" Roadway (Radial)

17'-0" (Radial)

17'-0" (Radial)

℄ Bent 3 & Exp. Jt.

Boring #3 Sta. 18+09 on ℄

End Br. & Defl. Jt.

Boring #2 Sta. 18+64 6.7' Left of ℄

Edge of Lane

To S.C. 14

To S-548

16" W

Approach Slab

Radial to ℄

Water Line

Exist. Fence

9°-33'-45"

3°-22'-30"

Drain Spacing Low Side Only 10'-0" | 19'-0" | 4'-0" | 4'-0"

Drain Spacing Low Side Only 10'-0" | 10'-0"

9'-6" | 11'-0" | 11'-0" | 9'-6"

S40°-40'-10"W

℄ Bridge & ℄ Survey S-164

Edge of Lane

Water Valve

Edge of Shoulder

Approx. Toe of Fill

Exist. Fence

DRAIN NO. ① ② ③ ④ ⑤ ⑥

▸Drain spacing is measured perpendicular to ℄ Interior Bents 2 & 3.

Flow

ROCKY CREEK

Edge of Creek

B.M. #2 - Nail in Base of Power Pole 75.5' Lt. of Sta. 16+94, El. 759.905

B.M. #3 - Nail in Base of Power Pole 38.3' Rt. of Sta. 22+85, El. 782.100

PLAN

HORIZ. CURVE DATA

P.I. Sta. 16+40.42
Δ = 61°-20'-49" (Rt.)
D = 11°-15'-00"
L = 545.31'
T = 302.08'
R = 509.30'
E = 82.85'

P.T. Sta. 18+83.65 (for Horiz. Curve)

⊠ Beginning of Bridge, End of Bridge and ℄ Interior Bents 2 & 3 are set parallel to radial line at Sta. 17+80.00.

20'-0" Approach Slab | 55'-0" (Arc) Rolled Beam Span | 170'-0" c. to c. (Arc) | 60'-0" (Arc) Rolled Beam Span | 55'-0" (Arc) Rolled Beam Span | 20'-0" Approach Slab

1'-0 1/16" | 1'-0 1/16"

Beg. Br. Approach Slab Sta. 16+75.00 F.G. El. 765.281

Beg. Br. Sta. 16+95.00 F.G. El. 764.958

℄ Bt. 1 & ℄ Brg. Sta. 16+96.50 F.G. El. 764.943

℄ Bt. 2 Sta. 17+50.00 F.G. El. 764.364

℄ Bt. 3 Sta. 18+10.00 F.G. El. 764.210

℄ Bt. 4 & ℄ Brg. Sta. 18+63.99 F.G. El. 764.513

End Br. Sta. 18+65.00 F.G. El. 764.523

End Br. Approach Slab Sta. 18+85.00 F.G. El. 764.744

Finished Grade

Excavate Hatched Area (by Others)

Boring #1 | Boring #4 | Boring #3 | Boring #2

(2) ⊥ Skew)

Approx. Exist. Ground Line 25' Right of ℄

Red silty sandy clay

40 In 0.5'

Approx. Exist. Ground Line @ ℄

Multicolored silty sand

Brown silty sand

Orange brown silty sand

Approx. Exist. Ground Line 25' Left of ℄

HP12x53 Steel Piling

Multicolored silty sand (saprolite and partially weathered rock

Very hard partially weathered rock, auger refusal, boring terminated

Water Elevation (January 1996)

P.I. Sta. = 18+02.04 (for Vertical Curve)

**3.5' run, 23% REC. 0% RQD

**5.0' run, 94% REC. 0% RQD

**5.0' run, 100% REC. 90% RQD

**5.0' run, 100% REC. 100% RQD

Auger Refusal @ 13' below top of existing bridge deck, commenced rock coring w/ AWG 1" core barrel

Coring Terminated

Very hard partially weathered rock, auger refusal, boring terminated

BENT NO. ① ② ③ ④

VERTICAL CURVE DATA

P.I. Sta. = 18+02.04
El. = 756.630
V.C. = 650'
-4.599% | -4.719%

Notes: "F" Denotes Fixed Bearings.
"X" Denotes Expansion Bearings.
Standard Penetration Test was performed with a CME Automatic Hammer.
Riprap not shown, see Road Plans for details.

*The Water Elevation shown was observed at the time of boring (January 1996). The elevation is for information only and the actual water elevation during construction may vary depending on weather conditions and seasonal fluctuations.

*The number of blows per foot shown at borings was obtained with a 140 lb. hammer falling 30" driving a 2" diameter split spoon sampler.

**Light to dark gray medium to fine grained granitoid gneiss to rock

SECTION ALONG ℄ S-164 (ARC)

·20 ·30 ·40 ·50 ·60 ·70 ·80 ·90 17+00 ·10 ·20 ·30 ·40 ·50 ·60 ·70 ·80 ·90 18+00 ·10 ·20 ·30 ·40 ·50 ·60 ·70 ·80 ·90 19+00 ·10 ·20 ·30 ·40

SOUTH CAROLINA PROFESSIONAL ENGINEER No. 14081 WILLIAM G. PHIPPS JR.

William G. Phipps, Jr. 3-20-96

REV.	BY	CHK.	DATE
REV.			
REV.			
REV.	TBK	LEM	1-96
	For Borings		
REVIEWED	SP		
QUAN.			
DR.	TBK	JP	12-95
DES.			

SOUTH CAROLINA DEPARTMENT OF TRANSPORTATION
BRIDGE DESIGN COLUMBIA, S.C.

PLAN & PROFILE REPLACE BRIDGE OVER ROCKY CREEK

FILE NO.	ROUTE	COUNTY	DRAWING NO.
23.331A	S-164	GREENVILLE	