

8/26/21

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11/3/2025
c:\bms\vhb-pw-01\d0216113\BP1-R018_SMU_GD01_650017.dgn
cmalagon

GRADE DATA -L-

PI = 11+83.00
EL = 71.86'
VC = 150'

(-)1.2000% (-)0.7797%

APPROXIMATE
NATURAL GROUND

FILL FACE AT END BENT 1
STA. 14+93.88 -L-
G.P. EL. 69.44

TOP OF PROPOSED
CONCRETE BENCH EL. 65.4

LOW CHORD
EL. 67.07

EL. 66.0±
FIX.
EL. 61.0±

NWS EL. = 62.78
DATE OF SURVEY
(10/19/2022)

25 YR HW
EL. 66.80

LOW CHORD
EL. 66.65

EXISTING
SUBSTRUCTURE
(TYP.)

EXISTING PORTION
OF END BENT TO BE
REMOVED TO EL. 65.4

1'-6" TO LIMITS OF
UNCLASSIFIED STR.
EXCAVATION (TYP.)

FILL FACE AT END BENT 2
STA. 15+51.13 -L-
G.P. EL. 68.99

FIX.

HP12x53 STEEL
PILES (TYP.)

TOP OF PROPOSED CONCRETE
BENCH EL. 65.1

EXISTING PORTION OF END BENT
TO BE REMOVED TO EL. 65.1

UNCLASSIFIED
STRUCTURE EXCAVATION

GRADE DATA -L-

PI = 18+09.33
EL = 66.98'
VC = 150'

(-)0.7797% (-)0.2470%

I HEREBY CERTIFY THESE PLANS
ARE THE AS-BUILT PLANS

HYDRAULIC DATA

DESIGN DISCHARGE	= 850 C.F.S.
FREQUENCY OF DESIGN FLOOD	= 25 YRS.
DESIGN HIGH WATER ELEVATION	= 66.8 FT
DRAINAGE AREA	= 7.6 SQ. MI.
BASIC DISCHARGE (Q100)	= 1472 C.F.S.
BASIC HIGH WATER ELEVATION	= 67.4 FT

OVERTOPPING FLOOD DATA

OVERTOPPING DISCHARGE	= 922 C.F.S.
FREQUENCY OF OVERTOPPING FLOOD	= 25+ YRS.
OVERTOPPING FLOOD ELEVATION	= 66.6 FT*
* LOCATION OF OVERTOPPING -L- 20+39.06	

WS EL. Taken @ River Station 13580

HORIZONTAL CURVE DATA -L-

PI = 16+43.51
Δ = 1°54'41.3" (LT)
D = 1°30'28.0"
L = 126.77'
T = 63.39'
R = 3800.00'

HORIZONTAL CURVE DATA -L-

PI = 13+99.33
Δ = 2°46'43.6" (LT)
D = 1°51'58.7"
L = 148.89'
T = 74.46'
R = 3070.00'

W.P. #1 AT FILL FACE
AT END BENT 1
STA. 14+93.88 -L-

BEGIN APPROACH SLAB
STA. 14+83.00 -L-

TO ZION CHURCH RD
SR 1500

PT STA. 14+73.76 -L-

SECTION ALONG -L-

57'-3" (FILL FACE TO FILL FACE)

28'-7½"

BRIDGE I.D.
STA. 15+22.50 -L-

W.P. #2 AT FILL FACE
AT END BENT 2
STA. 15+51.13 -L-

END APPROACH SLAB
STA 15+62.00 -L-

PC STA. 15+80.11 -L-

TO NC 35

EXISTING
STRUCTURE
(TYP.)

PROPOSED CONCRETE
BENCH (TYP.)

EXISTING CONCRETE
SPILLWAY (TO REMAIN)

PADDY'S DELIGHT
CREEK

PLAN

(PILES NOT SHOWN FOR CLARITY)



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DRAWN BY : D.M. SAULS	DATE : 07/2025
CHECKED BY : E.C. PHELPS	DATE : 09/2025
DESIGN ENGINEER OF RECORD: E.C. PHELPS	DATE : 09/2025



DOCUMENT NOT CONSIDERED
FINAL UNLESS ALL
SIGNATURES COMPLETED

PROJECT NO. **BP1-R018**
NORTHAMPTON COUNTY
STATION: **15+22.50 -L-**

SHEET 1 OF 3 REPLACES BRIDGE NO. 650017

STATE OF NORTH CAROLINA
DEPARTMENT OF TRANSPORTATION
RALEIGH
GENERAL DRAWING
FOR BRIDGE OVER PADDY'S
DELIGHT CREEK ON SR 1508
(DOOLITTLE MILL RD)
BETWEEN
SR 1500 (ZION CHURCH RD)
AND NC 35

REVISIONS					SHEET NO.
NO.	BY:	DATE:	NO.	BY:	DATE:
1			3		
2			4		
TOTAL SHEETS					14

S-1