DocuSign Envelope ID: B437460B-F00D-4A40-A154-D71A4FEB37FC

TGS ENGINEERS
706 HILLSBOROUGH ST. SUITE 200
RALEIGH, NC 27603
PH (919) 773-8887
CORP. LICENSE NO.: C-0275

Stantec
Stantec Consulting Services Inc.
801 Jones Franklin Road
Suite 300
Raleigh, NC 27606
Tel. (919) 851-6866
Fax. (919) 851-7024
www.stantec.com
License No. F-0672

PROJECT REFERENCE NO.	SHEET NO.
R-3833C	18

ROADWAY DESIGN ENGINEER
A. Dean Sarvis
4/27/2023

HYDRAULICS ENGINEER
Benjamin I. Henegar
4/27/2023

DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED

-Y4-

BEGIN GRADE
-Y4- POT 10+39.68
ELEV = 804.28'

END GRADE
-Y4- POC 11+65.00
ELEV = 799.22'

PI = 10+70.00
EL = 803.92'
VC = 60'
K = 12

PI = 11+30.00
EL = 800.20'
VC = 60'
K = 18

(-)11.8733%
(-)6.2000%
(+)3.7802%
(-)2.8000%

15' INCIDENTAL MILLING
SEE TIE-IN MILLING DETAIL
SHEET 2A-1

FOR -Y4- PLAN SEE SHEET 6

-Y5-

BEGIN GRADE
-Y5- POT 10+39.50
ELEV = 821.97'

PI = 11+15.00
EL = 824.99'
VC = 60'
K = 50

PI = 11+80.00
EL = 828.37'
VC = 70'
K = 23

END GRADE
BEGIN RESURFACING
-Y5- POC 13+04.00
ELEV = 831.00'

END RESURFACING
BEGIN GRADE
-Y5- POT 16+88.00
ELEV = 840.60'

END GRADE
-Y5- POC 17+81.27
ELEV = 843.22'

(+)4.0000% (+)4.0000% (+)5.2000% (+)2.1210% (+)2.8090% (+)2.0002%

FOR -Y5- PLAN SEE SHEET 6 & 11

-Y6- RT

Y6_RT LOCATED AT 6.5' RIGHT OF CENTERLINE

BEGIN GRADE (6.5' RT)
-Y6- POT 11+70.00
ELEV = 825.09'

END GRADE (6.5' RT)
-Y6- POC 12+59.74
ELEV = 825.80'

PI = 11+90.00
EL = 825.03'
VC = 40'
K = 29

(-)0.3000%
(+)1.1043%
(-)3.7994%
25'

INCIDENTAL MILLING
SEE TIE-IN MILLING DETAIL SHEET 2A-1

FOR -6- PLAN SEE SHEET 6

-Y6- LT

Y6_LT LOCATED 6.3' LEFT OF CENTERLINE

BEGIN GRADE (6.3' LT)
-Y6- POT 11+80.00
ELEV = 825.05'

END GRADE (6.3' LT)
-Y6- POC 12+60.93
ELEV = 826.00'

PI = 12+00.00
EL = 824.98'
VC = 40'
K = 17

PI = 12+40.00
EL = 825.77'
VC = 40'
K = 46

(-)0.3500%
(+)1.9750%
(+)1.0989%
(-)3.8905%
25'

INCIDENTAL MILLING
SEE TIE-IN MILLING DETAIL SHEET 2A-1

FOR -6- PLAN SEE SHEET 6

-Y7-

BEGIN GRADE
-Y7- POT 15+35.00
ELEV = 840.66'

PI = 15+51.00
EL = 841.70'
VC = 25'
K = 24

PI = 15+89.00
EL = 844.58'
VC = 50'
K = 9

END GRADE
-Y7- POC 16+14.73
ELEV = 845.17'

(+)6.5150%
(+)7.5789%
(+)2.2926%
(+)2.1070%
37.5'

INCIDENTAL MILLING
SEE TIE-IN MILLING DETAIL SHEET 2A-1

FOR -Y7- PLAN SEE SHEET 6 & 7

5/28/99
3/30/2023
J:\3833C_Hydraulics\Proj\R3833C_rdy.pfl.layout.dgn
DGN: rdy