

5/28/2019

**PIPE HYDRAULIC DATA**  
30" RCP Sta. 1390+38 -L- RT

DRAINAGE AREA	= 5.3	AC
DESIGN FREQUENCY	= 10	YRS
DESIGN DISCHARGE	= 22	CFS
DESIGN HW ELEVATION	= 187.7	FT
100 YEAR DISCHARGE	= 26	CFS
100 YEAR HW ELEVATION	= 188.24	FT
OVERTOPPING FREQUENCY	= 100 +	YRS
OVERTOPPING DISCHARGE	= 26 +	CFS
OVERTOPPING ELEVATION	= 192.67	FT

**PIPE HYDRAULIC DATA**  
15" WSP Sta. 1396+00 -L- LT

DRAINAGE AREA	= 0.5	AC
DESIGN FREQUENCY	= 10	YRS
DESIGN DISCHARGE	= 2.1	CFS
DESIGN HW ELEVATION	= 181.0	FT
100 YEAR DISCHARGE	= 2.7	CFS
100 YEAR HW ELEVATION	= 181.99	FT
OVERTOPPING FREQUENCY	= 100 +	YRS
OVERTOPPING DISCHARGE	= 2.7 +	CFS
OVERTOPPING ELEVATION	= 185.09	FT

**BRIDGE HYDRAULIC DATA**

DESIGN DISCHARGE	= 530	CFS
DESIGN FREQUENCY	= 50	YRS
DESIGN HW ELEVATION	= 173.4	FT
BASE DISCHARGE	= 570	CFS
BASE FREQUENCY	= 100	YRS
BASE HW ELEVATION	= 173.5	FT
OVERTOPPING DISCHARGE	= 650 +	CFS
OVERTOPPING FREQUENCY	= 500 +	YRS
OVERTOPPING ELEVATION	= 180.6	FT
	=	FT
DATE OF SURVEY	= 06/03/2019	
W.S. ELEVATION AT DATE OF SURVEY	= 172.4	FT

**PIPE HYDRAULIC DATA**  
18" WSP Sta. 1393+66 -L- RT

DRAINAGE AREA	= 1.2	AC
DESIGN FREQUENCY	= 10	YRS
DESIGN DISCHARGE	= 5.7	CFS
DESIGN HW ELEVATION	= 180.2	FT
100 YEAR DISCHARGE	= 7.3	CFS
100 YEAR HW ELEVATION	= 180.69	FT
OVERTOPPING FREQUENCY	= 100 +	YRS
OVERTOPPING DISCHARGE	= 7.3 +	CFS
OVERTOPPING ELEVATION	= 185.09	FT

PROJECT REFERENCE NO. 1-5986B SHEET NO. 88

ROADWAY DESIGN ENGINEER: Susan C. Lancaster, Seal 027373, 5/11/2021

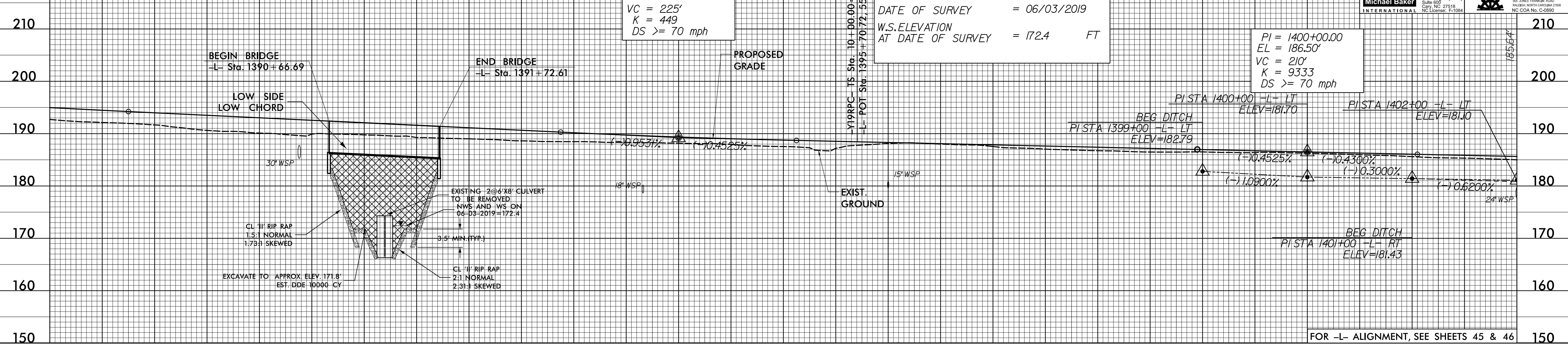
HYDRAULICS ENGINEER: Joshua G. Dikem, Seal 26971, 5/11/2021

**DOCUMENT NOT CONSIDERED FINAL UNLESS ALL SIGNATURES COMPLETED**

Michael Baker Engineering, Inc. SUNGATE DESIGN GROUP, P.A.

PI = 1394+00.00  
EL = 189.2'  
VC = 225'  
K = 449  
DS >= 70 mph

PI = 1400+00.00  
EL = 186.50'  
VC = 210'  
K = 9333  
DS >= 70 mph



**PIPE HYDRAULIC DATA**  
24" WSP Sta. 1402+00 -L- LT

DRAINAGE AREA	= 3.6	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 12	CFS
DESIGN HW ELEVATION	= 180.3	FT
100 YEAR DISCHARGE	= 13	CFS
100 YEAR HW ELEVATION	= 180.94	FT
OVERTOPPING FREQUENCY	= 100 +	YRS
OVERTOPPING DISCHARGE	= 13 +	CFS
OVERTOPPING ELEVATION	= 182.42	FT

**PIPE HYDRAULIC DATA**  
24" WSP Sta. 1406+00 -L- RT

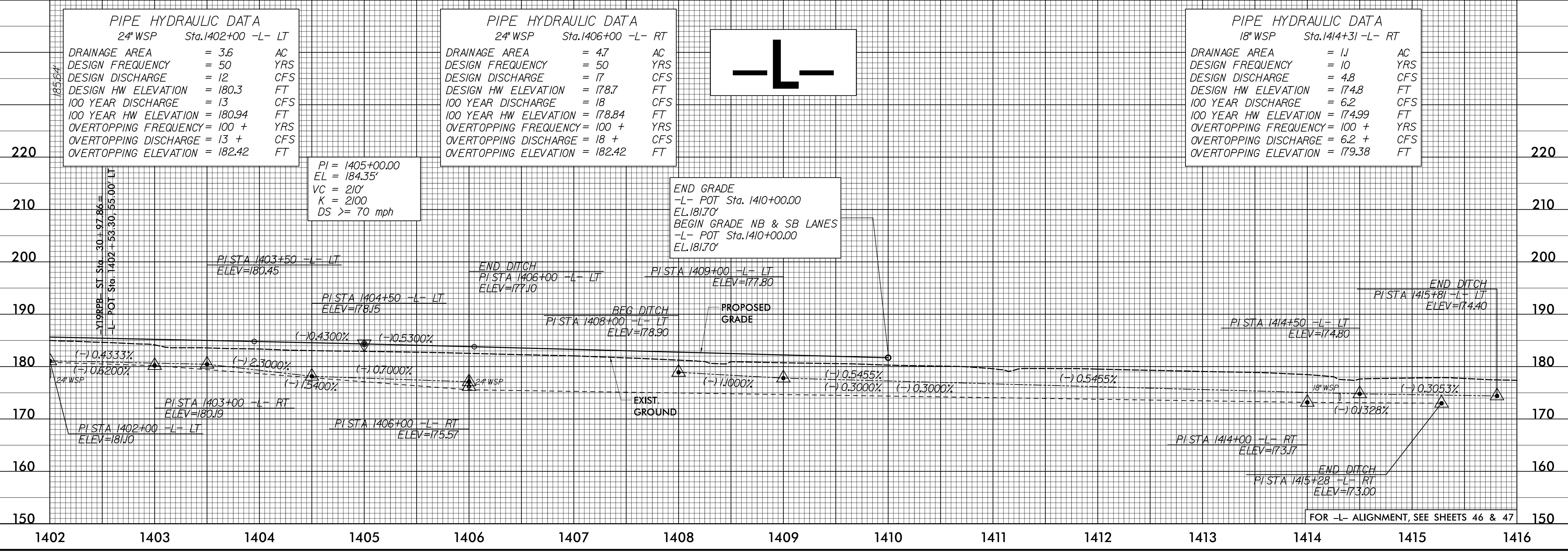
DRAINAGE AREA	= 4.7	AC
DESIGN FREQUENCY	= 50	YRS
DESIGN DISCHARGE	= 17	CFS
DESIGN HW ELEVATION	= 178.7	FT
100 YEAR DISCHARGE	= 18	CFS
100 YEAR HW ELEVATION	= 178.84	FT
OVERTOPPING FREQUENCY	= 100 +	YRS
OVERTOPPING DISCHARGE	= 18 +	CFS
OVERTOPPING ELEVATION	= 182.42	FT

**PIPE HYDRAULIC DATA**  
18" WSP Sta. 1414+31 -L- RT

DRAINAGE AREA	= 1.1	AC
DESIGN FREQUENCY	= 10	YRS
DESIGN DISCHARGE	= 4.8	CFS
DESIGN HW ELEVATION	= 174.8	FT
100 YEAR DISCHARGE	= 6.2	CFS
100 YEAR HW ELEVATION	= 174.99	FT
OVERTOPPING FREQUENCY	= 100 +	YRS
OVERTOPPING DISCHARGE	= 6.2 +	CFS
OVERTOPPING ELEVATION	= 179.38	FT

PI = 1405+00.00  
EL = 184.35'  
VC = 210'  
K = 2100  
DS >= 70 mph

END GRADE  
-L- POT Sta. 1410+00.00  
EL. 181.70'  
BEGIN GRADE NB & SB LANES  
-L- POT Sta. 1410+00.00  
EL. 181.70'



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