

6A ENGINEERING ANALYSIS

HYDROLOGY/HYDRAULIC COMPUTATIONS

SEE ALSO 6A 1000 1000 1000
SEE ALSO 6A 1000 1000 1000
SEE ALSO 6A 1000 1000 1000
SEE ALSO 6A 1000 1000 1000
SEE ALSO 6A 1000 1000 1000

<u>WSEL</u>	<u>A</u>	<u>P</u>	<u>R</u>	<u>$R^{2/3}$</u>	<u>$A R^{2/3}$</u>	<u>$KAR^{2/3}$</u>
2	531.2	72.1	7.37	3.79	2011	1778
3	1157.7	729.7	1.586	1.36	1574.5	1392
3.5	1542.3	824.8	1.87	1.52	2340.9	2070
4	1974.4	921.9	2.14	1.66	3280.5	2901
4.5	2733.6	1775.5	1.54	1.33	3645	3223
5	3725.8	2242.1	1.66	1.40	5227	4622
5.5	5035.6	2741.4	1.84	1.50	7552.7	6678
6	6107.8	3240.6	1.88	1.52	9319	8240

<u>Q_{10}</u>	<u>Q_{50}</u>	<u>Q_{100}</u>	<u>Q_{500}</u>
1616	3034	3884	6373
3.2	4.1	4.7	5.5

NORMAL DEPTH CALCULATION

CHOCOWINITY CREEK

X-SECT: S-A



**TETRA
TECH
INC.**

PASADENA, CALIF.

SUBJECT Washington City N.C.

Maple Branch + Mitchell Branch

COMPUTED Frank G. CHECKED _____

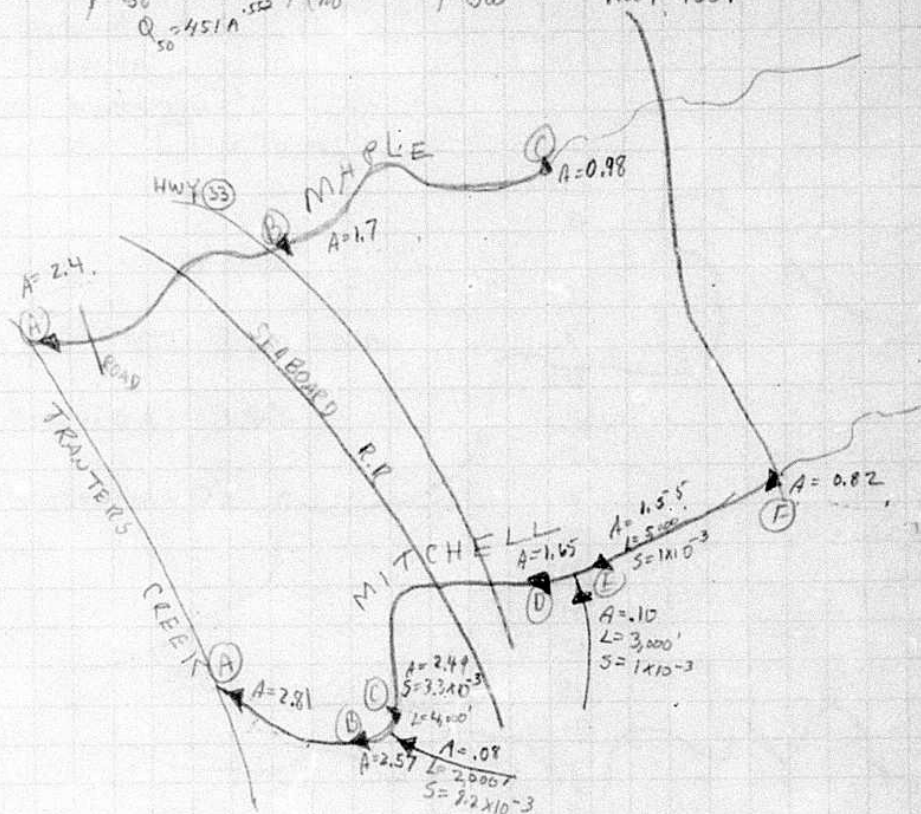
PROJECT N.C.

FILE NO _____

DATE 2/2/60 PAGE 1 OF 1 PAGES

$$Q_{10} = 215A^{.564} / Q_{50} = 451A^{.552} / Q_{100} = 594A^{.54} / Q_{500} = 1080A^{.517}$$

HWY 1001



WASHINGTON QUAD. No. C. 7.5 MINUTE

NOTE: Slopes + Lengths are representative for each particular reach
Areas D of confluence represent the cumulative

Detailed area representatinal reach
Green lines represent structures

Maple	Q_{10}	Q_{50}	Q_{100}	Q_{500}	Mitchell	Q_{10}	Q_{50}	Q_{100}	Q_{500}
A	360	731	960	1695	A	395	798	1045	1840
B	295	604	795	1420	B	375	759	995	1755
C	15	446	595	1060	C	370	746	980	1730
					D	290	595	785	1400
					E	280	574	760	1355
					F	195	404	540	980



Jacksonville, Fla

SUBJECT ESTIMATE OF IMPERVIOUS SURFACE & STORM SEWERED AREAS

COMPUTED JJS CHECKED _____

PROJECT NC FLOOD INS.

FILE NO. 3380 (BEAUFORT CO.)

DATE 7/2/82 PAGE 1 OF _____ PAGES

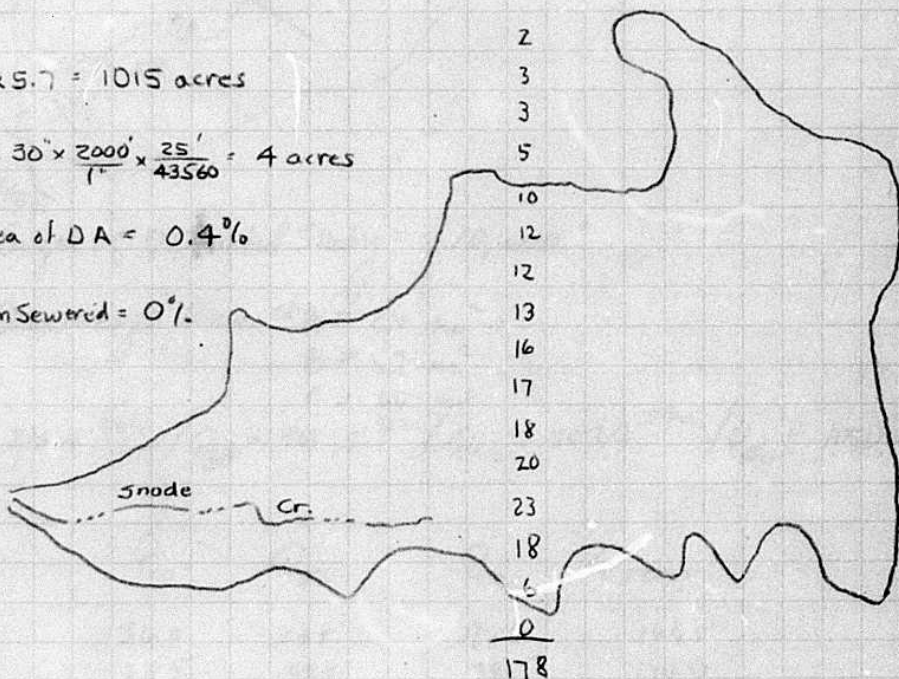
COUNTY: Beaufort
TOWN: Washington Park
STREAM: Snode Cr.
QUAD SHEET: Washington 7 1/2
SCALE: 1:24000 $\square = 5.7$ acres

$$D.A. = 178 \times 5.7 = 1015 \text{ acres}$$

$$Rd. Area = 30' \times \frac{2000'}{1'} \times \frac{25'}{43560} = 4 \text{ acres}$$

$$\% \text{ Imp. Area of DA} = 0.4\%$$

$$\% \text{ of DA Storm Sewered} = 0\%$$



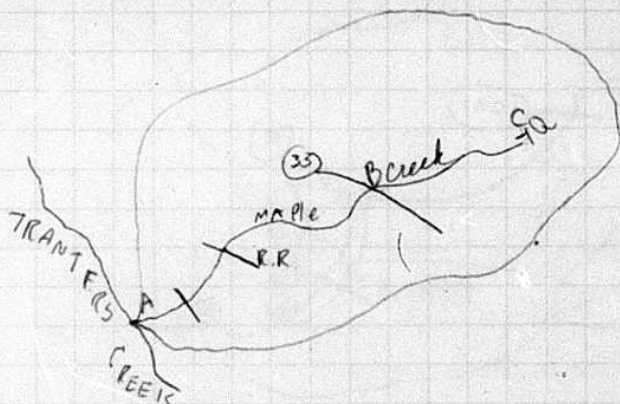


**TETRA
TECH
INC.**

PASADENA, CALIF.

SUBJECT Maple Creek
Beaufort County
COMPUTED Drunk CHECKED _____

PROJECT North Carolina
FILE NO. Group IV
DATE 9/9/60 PAGE 1 OF 1 PAGES



Length of Detailed Study = 10,000'

Drainage Area $A = 2.4 \text{ mi}^2$

$B = 1.7 \text{ mi}^2$

$C = 1.0 \text{ mi}^2$

$$Q_{10} = 215 A^{.564} / Q_{50} = 451 A^{.552} / Q_{100} = 547 A^{.540} / Q_{500} = 1080 A^{.514}$$

Location	Q_{10}	Q_{50}	Q_{100}	Q_{500}
A	360	731	460	1695
B	295	604	795	1420
C	215	451	545	1080

DUP

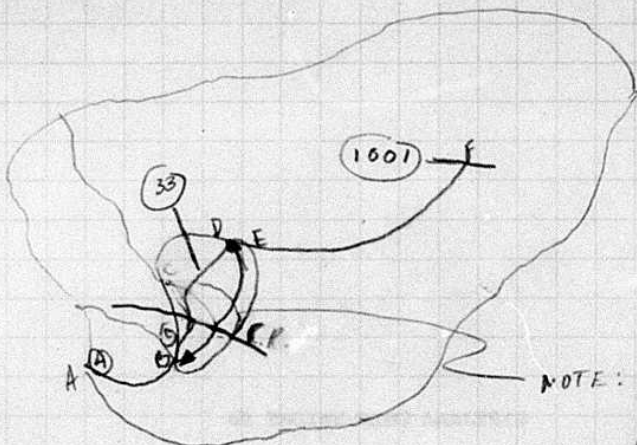


TETRA
TECH
INC.

PASADENA, CALIF.

SUBJECT Mitchell Creek
Beaufort Co.
COMPUTED Frank CHECKED _____

PROJECT North Carolina
FILE NO. Group 10
DATE 9/9/80 PAGE 1 OF 1 PAGES



NOTE: These tributaries
feed into Mitchell
Creek. They are not
studied in detailed

Length of Detailed Study = 11,000'

Drainage Area at A = 2.81

Drainage Area at B = 2.57

Drainage Area at C = 2.49

Drainage Area at D = 1.65

Drainage Area at E = 1.55

Drainage Area at F = .82

Location	Q ₁₀	Q ₅₀	Q ₁₀₀	Q ₅₀₀
A	395	798	1075	1840
B	375	759	995	1755
C	370	746	980	1730
D	240	595	785	1400
E	260	574	760	1355
F	195	404	540	980

DUP