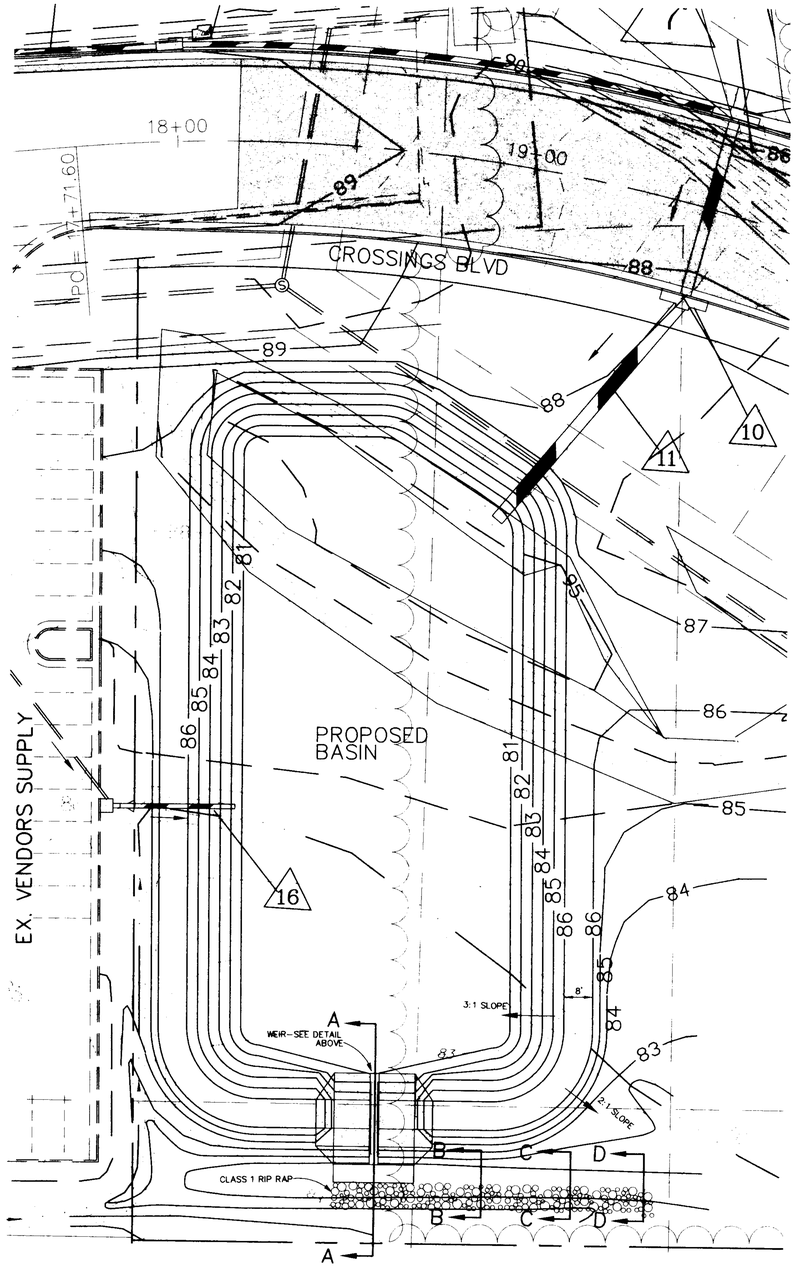


BASIN PLAN

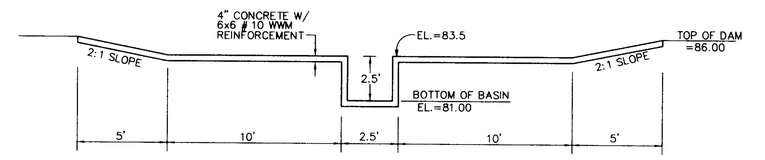
SCALE: 1"=20'

BASIN PERFORMANCE SUMMARY			
DEVELOPED TO DATE	PEAK INFLOW (CFS)	PEAK OUTFLOW (CFS)	PEAK ELEVATION
2 YR.	27.0	20.9	83.08
10 YR.	65	65.7	84.19
100 YR.	106	105.1	84.61
ULTIMATE DEVELOPMENT			
2 YR.	47	24.1	83.33
10 YR.	96	79	84.30
100 YR.	146	130.5	84.90

BASIN HYDROLOGY SUMMARY		
	DEVELOPED TO DATE	ULTIMATE DEVELOPMENT
DA	19.6 AC.	19.6 AC.
CN (CURVE #)	78	88
Tc	0.40 HR.	0.30 HR.
2 YR STORM	27 CFS	47 CFS
10 YR. STORM	65 CFS	96 CFS
100 YR. STORM	106 CFS	146 CFS

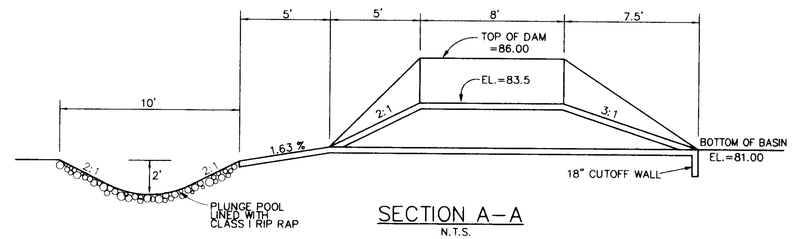
STORM SEWER SCHEDULE:

STR. #	DESCRIPTION:
1	71 LF OF 18" CL III CONC. PIPE @ 1.05 %, INV. IN=86.25, INV. OUT=85.50
2	DI-3B, L=4', TOP=89.75, H=4.35'
3	158.00 LF OF 18" CL III CONC. PIPE @ 2.15 %, INV. IN=85.40, INV. OUT=82.00
4	8 LF OF 18" CL III CONC. PIPE @ 1.00 %, INV. IN=86.68, INV. OUT=86.60
5	DI-3B, L=6', TOP=90.77, H=4.27
6	241 LF OF 18" CL III CONC. PIPE @ 1.87 %, INV. IN=86.50, INV. OUT=82.00
7	8 LF OF 30" CL III CONC. PIPE @ 1.00 %, INV. IN=82.08, INV. OUT=82.00
8	DI-3C, L=12', TOP=88.25, H=6.35
9	54 LF OF 36" III CONC. PIPE @ 0.40 %, INV. IN=81.90, INV. OUT=81.68
10	DI-3C, L= 12', TOP=88.25, H=6.67
11	80 LF OF 36" CL III CONC. PIPE @ 0.72 %, INV. IN=81.58, INV. OUT=81.01
12	DI-3C, L= 10', TOP=91.50, H=4.00
13	54 LF OF 15" CL III CONC. PIPE @ 1.00 % , INV. IN=87.50, INV. OUT=86.76
14	DI-3C, L= 10', TOP=91.50, H=4.64
15	8 LF OF 15" CL III CONC. PIPE @ 1.00 %, INV. IN=86.86, INV. OUT=86.78
16	32 LF OF 15" CL III CONC. PIPE @ 1.00 %, INV. IN=82.16, INV. OUT=81.84



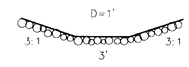
WEIR DETAIL

N.T.S.



SECTION A–A

N.T.S.



SECTION B–B

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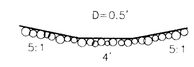

SECTION C–C

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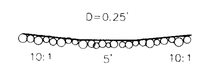

SECTION D–D

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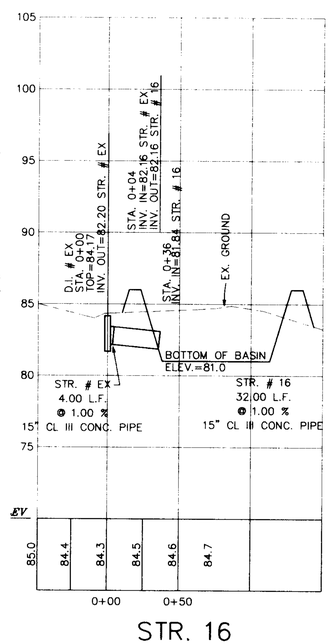
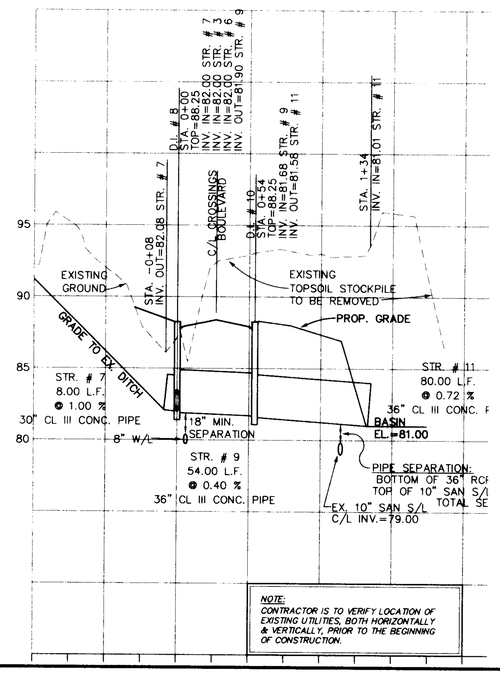
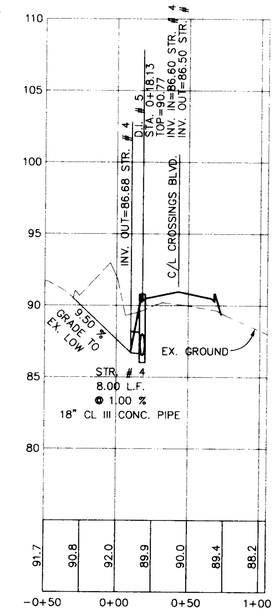


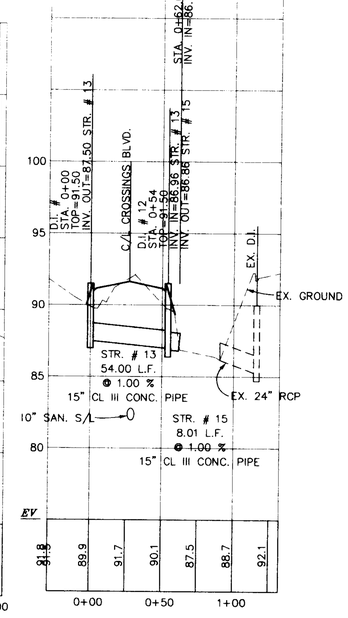
STR. 16



NOTE:
CONTRACTOR IS TO VERIFY LOCATION OF EXISTING UTILITIES, BOTH HORIZONTALLY & VERTICALLY, PRIOR TO THE BEGINNING OF CONSTRUCTION.



STR. 4 TO 5



STR. 12 TO 15

THIS DRAWING PREPARED AT THE PRINCE GEORGE OFFICE

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REVISION DESCRIPTION	DATE

DATE	4-24-98
DRAWN BY	L.R.G.
DESIGNED BY	L.R.G.
CHECKED BY	D.A.J.
SCALE	AS SHOWN
JOB NO.	17737
SHEET NO.	C-3

TIMMONS Founded 1953

ENGINEERS * SURVEYORS * LANDSCAPE ARCHITECTS * ENVIRONMENTAL SCIENTISTS * GEOGRAPHIC INFORMATION SYSTEMS CONSULTANTS * CONSTRUCTION MANAGERS

CROSSINGS BOULEVARD EXTENSION

BLAND DISTRICT • PRINCE GEORGE COUNTY, VIRGINIA

BASIN PLAN

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