

FROM STR	TO STR	TYPE OF STR	FRICION	SLOPE	COM	DIAM	IN	OUT
17	INLET	010	0.10	15	0.013	0.01015		
16	MH	010	0.10	15	0.013	0.01015		
15	MH	010	0.10	15	0.013	0.01015		
14	INLET	010	0.10	15	0.013	0.01015		
13	MH	010	0.10	15	0.013	0.01015		
11	MH	010	0.10	15	0.013	0.01015		
10	EW	010	0.10	15	0.013	0.01015		

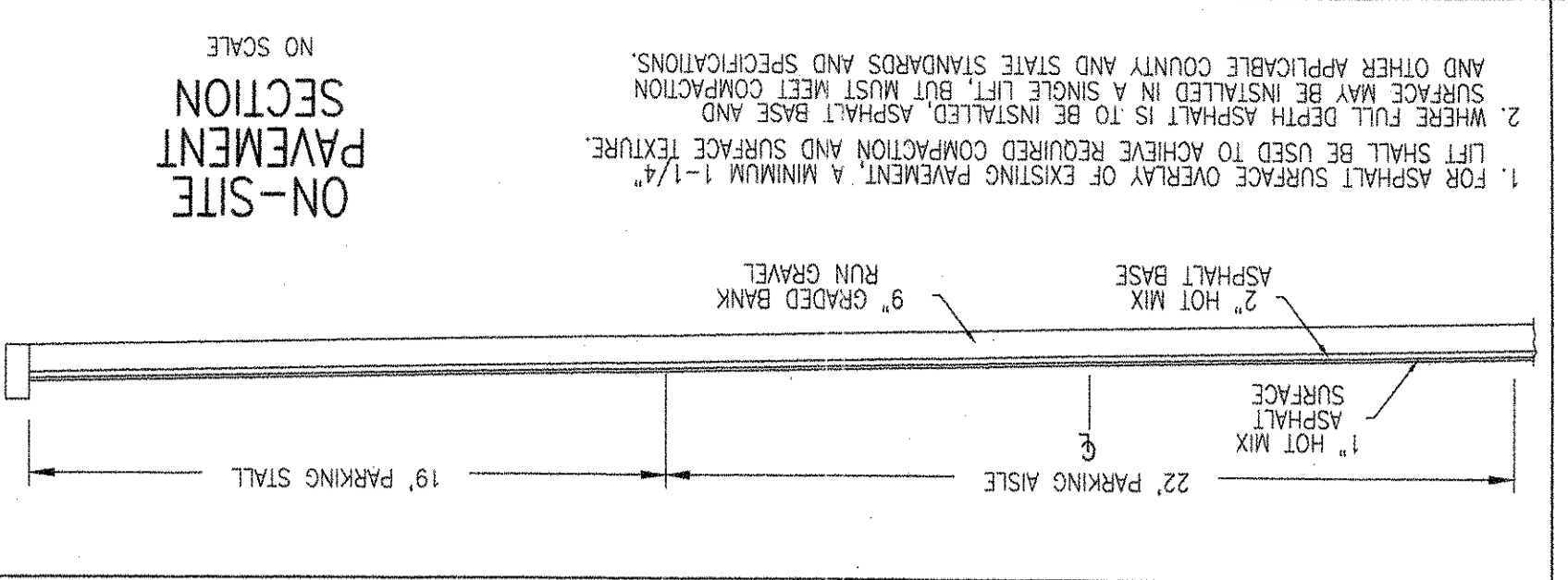
$$F_s = \frac{4.66n^2}{16^{1/3}}$$

NO	TYPE	SPECIFICATION	TOP ELEV.	OUT INV.	IN INV.	SUMP AND MAINTAINED BY
10	EW	15" CONC. END WALL PER SHA STD MD-354.01	222.00	-	-	PRIVATE
11	MH	MANHOLE PER SHA STD MD-383.21	237.70	237.00	233.25	PRIVATE
13	INLET	SINGLE COG PER SHA STD MD-374.31	240.50	237.00	233.25	PRIVATE
14	JB	CONC. JUNCTION BOX PER SHA STD MD-386.11	240.60	230.45	230.45	PRIVATE
15	RISER	CMP RISER	242.70	231.30	-	PRIVATE
16	MH	MANHOLE PER SHA STD MD-383.21	241.95	237.70	-	PRIVATE
17	INLET	DOUBLE COG PER SHA STD MD-374.31	244.50	241.00	242.25	PRIVATE

DESCRIPTION	CLASS	QUANTITY	AND MAINTAINED BY
6" PERFORATED HDPE	TYPE S	333 L.F.	PRIVATE
6" SOLID HDPE	TYPE S	78 L.F.	PRIVATE
19" HDPE	TYPE S	196 L.F.	PRIVATE
84" CMP	12 GA	168.9 L.F.	PRIVATE

FROM STR	TO STR	TYPE OF STR	AREA	COEFF	CUM	TIME	CONCENTRATION	DISCHARGE
17	COG	1.39	0.66	0.92	0.92	5	7.08	6.51
16	MH	1.39	0.66	0.92	0.92	5	7.08	6.51
13	JB	0.57	0.58	0.33	1.25	5	7.08	2.34
11	MH	0.57	0.58	0.33	1.25	5	7.08	2.34
10	EW	-	-	-	-	5	7.08	-

STORM SEWER DESIGN COMPUTATIONS



CAUTION - NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS IS BASED ON RECORDS OF THE WATERS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IMPROVE EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS AND TO VERIFY THE EXACT LOCATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION ACTIVITIES.

INLET	DRAIN	NO	TYPE	LN	FT	ACRES	C	I	Q	CARRY	FLOW	OUTER	GUTTER	SLOPE	SPREAD	L	L/L	Q/O	BYPASS	Q	INTER	STR	#	H	Q/L	H/H	H	SPREAD	REMARKS
17	COG	4.3	0.57	0.68	9.72	3.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	WSE(100)=240.10	
13	COG	4.3	0.57	0.68	9.72	3.77	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	WSE(100)=244.20		

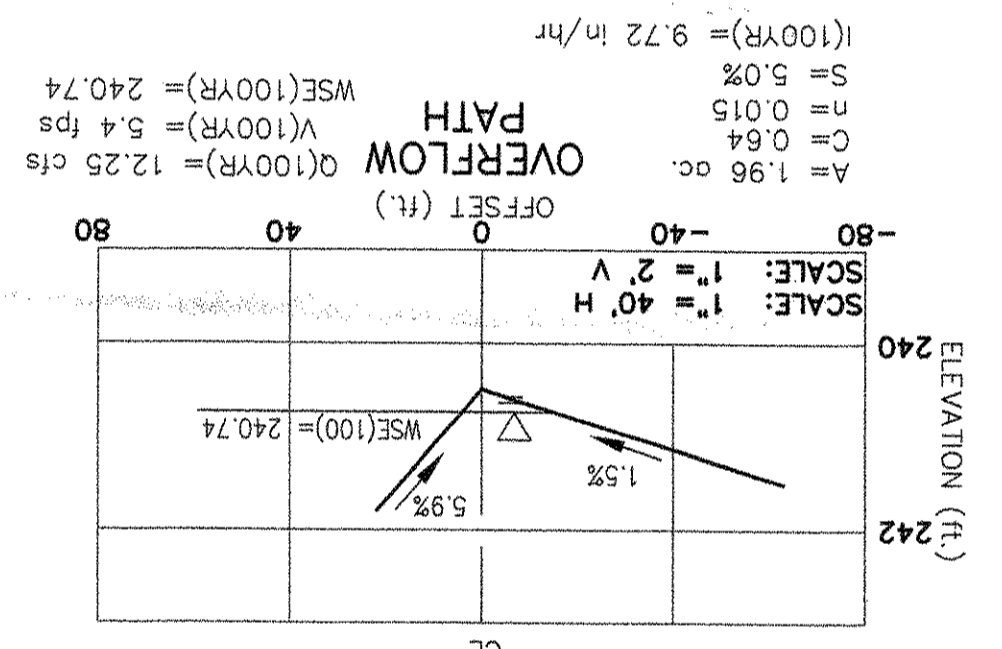
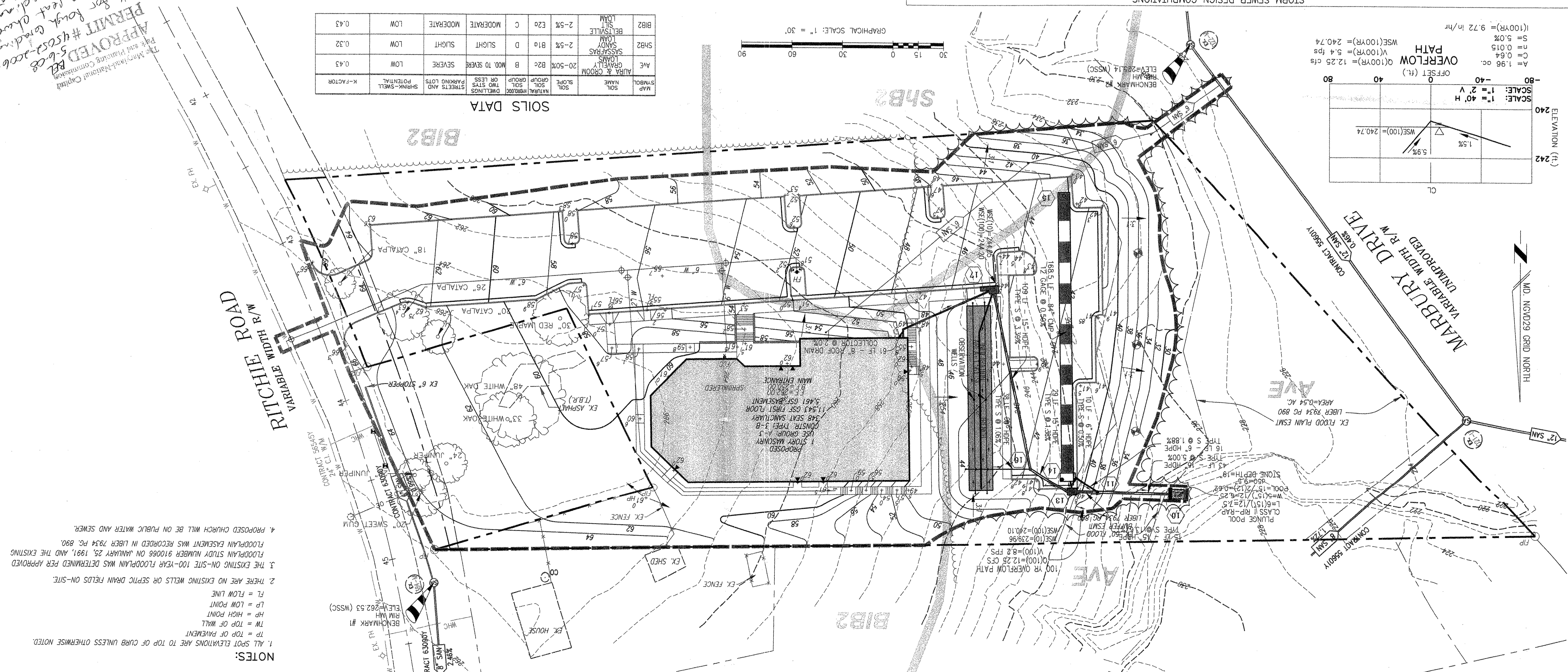
STORM INLET COMPUTATIONS (100 YR)

INLET	DRAIN	NO	TYPE	LN	FT	ACRES	C	I	Q	CARRY	FLOW	OUTER	GUTTER	SLOPE	SPREAD	L	L/L	Q/O	BYPASS	Q	INTER	STR	#	H	Q/L	H/H	H	SPREAD	REMARKS
17	COG	4.3	0.57	0.68	7.08	6.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	WSE(10)=239.96		
13	COG	4.3	0.57	0.68	7.08	6.51	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	WSE(10)=244.05		

STORM INLET COMPUTATIONS (10 YR)

MAP SYMBOL	SOIL NAME	PERCENT SAND	PERCENT SILT	PERCENT CLAY	GROUP	PLASTICITY INDEX	SHRINKAGE POTENTIAL	K-FACTOR
AE	ALFA & CRODM	20-50%	B2c	B	MO. TO SEVERE	SEVERE	LOW	0.43
SB2	SASSPARAS	2-5%	B1a	D	SLIGHT	SLIGHT	LOW	0.32
BIB2	BECKVILLE	2-5%	E2a	C	MODERATE	MODERATE	LOW	0.43

SOILS DATA



- NOTES:
1. ALL SPOT ELEVATIONS ARE TO TOP OF CURB UNLESS OTHERWISE NOTED.
 2. THERE ARE NO EXISTING WELLS OR SEPTIC DRAIN FIELDS ON-SITE.
 3. THE EXISTING ON-SITE 100-YEAR FLOODPLAIN WAS DETERMINED PER APPROVED FLOODPLAIN STUDY NUMBER 910066 ON JANUARY 25, 1991, AND THE EXISTING FLOODPLAIN ELEVATION WAS RECORDED IN LIBER 7934 PG. 890.
 4. PROPOSED CHURCH WILL BE ON PUBLIC WATER AND SEWER.

REVISIONS:

DATE: SEPT 2006
SCALE: 1"=30'
DRAWING NAME: 19D09-GP-REV.2
PROJECT: GRADING & UTILITY PLAN
PROJECT NUMBER: M.N.C.P.C. APPROVALS

PROJECT: BETH SHALOM AME ZION CHURCH
6TH ELECTION DISTRICT
PRINCE GEORGES'S COUNTY, MARYLAND

FILE NO. MDPG-19D09-01
SHEET 4 OF 8

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