

REVISIONS:

3/31/07 SHIFT PROP. IMP'S
TO EAST, REDUCE TO FROM
1.18 TO 1.06 AC. REDUCE DET.
PIPE FROM 8" TO 5" DIA.

WARDER
Your Church Builder
Phone: (301) 868-5900
Toll Free: (800) 732-7266
Fax: (301) 868-8740
www.wardergroup.com

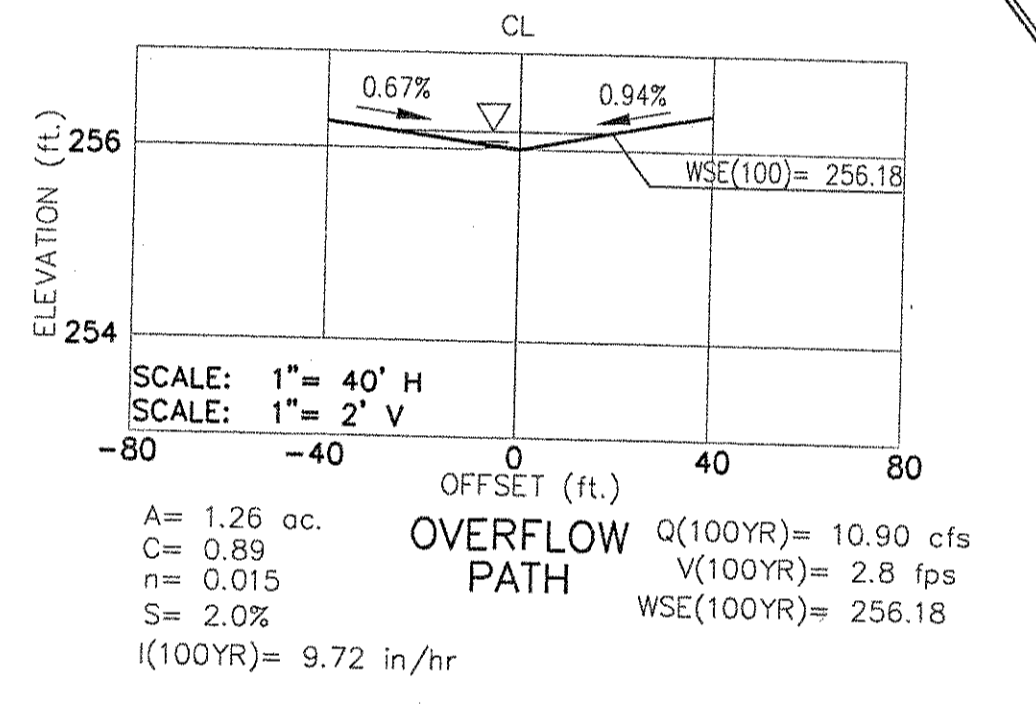
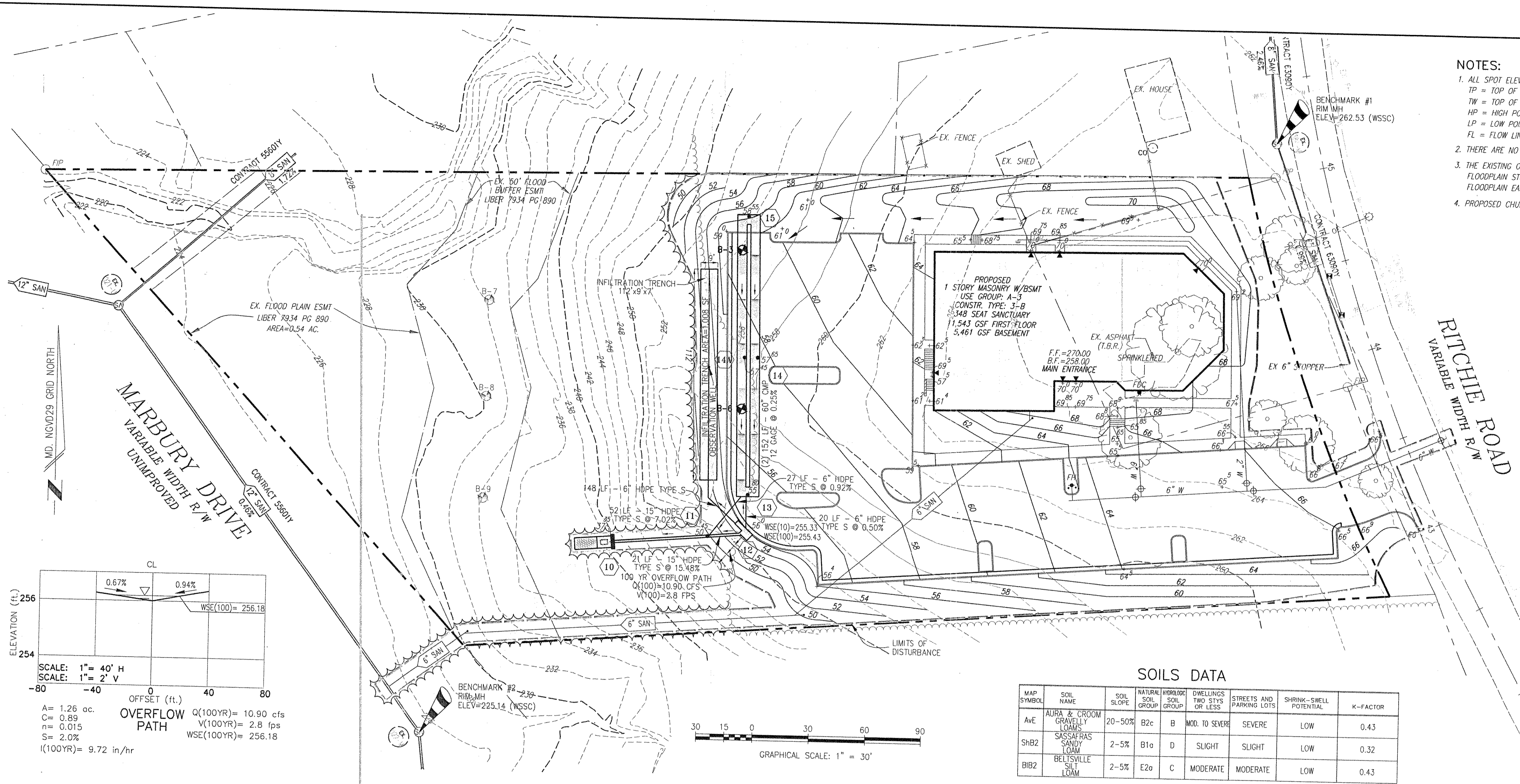
WE Inc.
Williams Enterprises Incorporated
18 Mosby Lane Stafford, Virginia 22556
540-286-3710 and 540-286-0345 Fax
weinc@hughes.net



DATE: MARCH 2007
SCALE: 1"=30'
DRAWING NAME:
19D09-GP-REV3

GRADING & UTILITY PLAN
PROJECT: **BETH SHALOM AME ZION CHURCH**
6TH ELECTION DISTRICT
PRINCE GEORGE'S COUNTY, MARYLAND
SHEET SD 2 OF 3
FILE No. MDPG-19D09-01

- NOTES:**
- ALL SPOT ELEVATIONS ARE TO TOP OF CURB UNLESS OTHERWISE NOTED.
TP = TOP OF PAVEMENT
TW = TOP OF WALL
HP = HIGH POINT
LP = LOW POINT
FL = FLOW LINE
 - THERE ARE NO EXISTING WELLS OR SEPTIC DRAIN FIELDS ON-SITE.
 - THE EXISTING ON-SITE 100-YEAR FLOODPLAIN WAS DETERMINED PER APPROVED FLOODPLAIN STUDY NUMBER 910066 ON JANUARY 25, 1991, AND THE EXISTING FLOODPLAIN EASEMENT WAS RECORDED IN LIBER 79.34 PG. 890.
 - PROPOSED CHURCH WILL BE ON PUBLIC WATER AND SEWER.



SOILS DATA

MAP SYMBOL	SOIL NAME	SOIL SLOPE	NATURAL SOIL GROUP	HYPOTHETICAL SOIL GROUP	DWELLINGS TWO STYS OR LESS	STREETS AND PARKING LOTS	SHRINK-SWELL POTENTIAL	K-FACTOR
AVE	AURA & CROOM GRAVELLY CLAYS	20-50%	B2c	B	MOD. TO SEVERE	SEVERE	LOW	0.43
SHB2	SASSAFRAS SANDY LOAM	2-5%	B1o	D	SLIGHT	SLIGHT	LOW	0.32
BIB2	BELTSVILLE SILT LOAM	2-5%	E2o	C	MODERATE	MODERATE	LOW	0.43

TEST BORING LOG SHEET NO. 1

PROJECT: Beth Shalom AME Zion Church
LOCATION: 2501 Ritchie Road, Capitol Heights, MD
CLIENT: Beth Shalom AME Zion Church
HAMMER: 140lbs @ 30 inch drop

BORING NO.: B-3
ELEVATION: 254
DATE DRILLED: 3/19/05
PROJECT NO.: 251199

DEPTH (FT)	SPT Blows/ft	DESCRIPTION	ASTM	STRA-TUM	MOIS-TURE(%)
0	1	5" topsoil	CL	A	
1	1	Brown lean CLAY, moist	CL	A	
2	2				
3	15	Brown silty SAND, moist	SM	B	
4	12				
5	8				
6	12				
7	10	Brown clay SAND, trace gravel, moist	SC		
8	10				
9	10				
10	10	Brown poorly graded GRAVEL, with sand, moist	GP		
11	10				
12	10				
13	10				
14	10				
15	10	Brown and gray clayey SAND, trace gravel with clay layers, moist	SC		
16	10				
17	10				
18	10				
19	10				
20	10	Brown poorly graded SAND, wet	SP	C	
21	10				
22	10				
23	10				
24	10				
25	10				
26	10				
27	10				
28	10				
29	10				
30	10				

WATER ENCOUNTERED AT: 24' AFTER 24 Hours
WATER AT: 16.9' CAVED AT: 17.9'

NOTE: GEOTECH ENGINEERS, INC.

TEST BORING LOG SHEET NO. 2

PROJECT: Beth Shalom AME Zion Church
LOCATION: 2501 Ritchie Road, Capitol Heights, MD
CLIENT: Beth Shalom AME Zion Church
HAMMER: 140lbs @ 30 inch drop

BORING NO.: B-6
ELEVATION: 257
DATE DRILLED: 3/17/05
PROJECT NO.: 251199

DEPTH (FT)	SPT Blows/ft	DESCRIPTION	ASTM	STRA-TUM	MOIS-TURE(%)
0	1	5" topsoil	CL	A	
1	1	Brown lean CLAY, moist	CL	A	
2	2				
3	15	Brown silty SAND, moist	SM	B	
4	12				
5	8				
6	12				
7	10				
8	10				
9	10				
10	10				
11	10				
12	10				
13	10				
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22	10				
23	10				
24	10				
25	10				
26	10				
27	10				
28	10				
29	10				
30	10				

WATER ENCOUNTERED AT: 24' AFTER 24 Hours
WATER AT: Dry CAVED AT: 17.5'

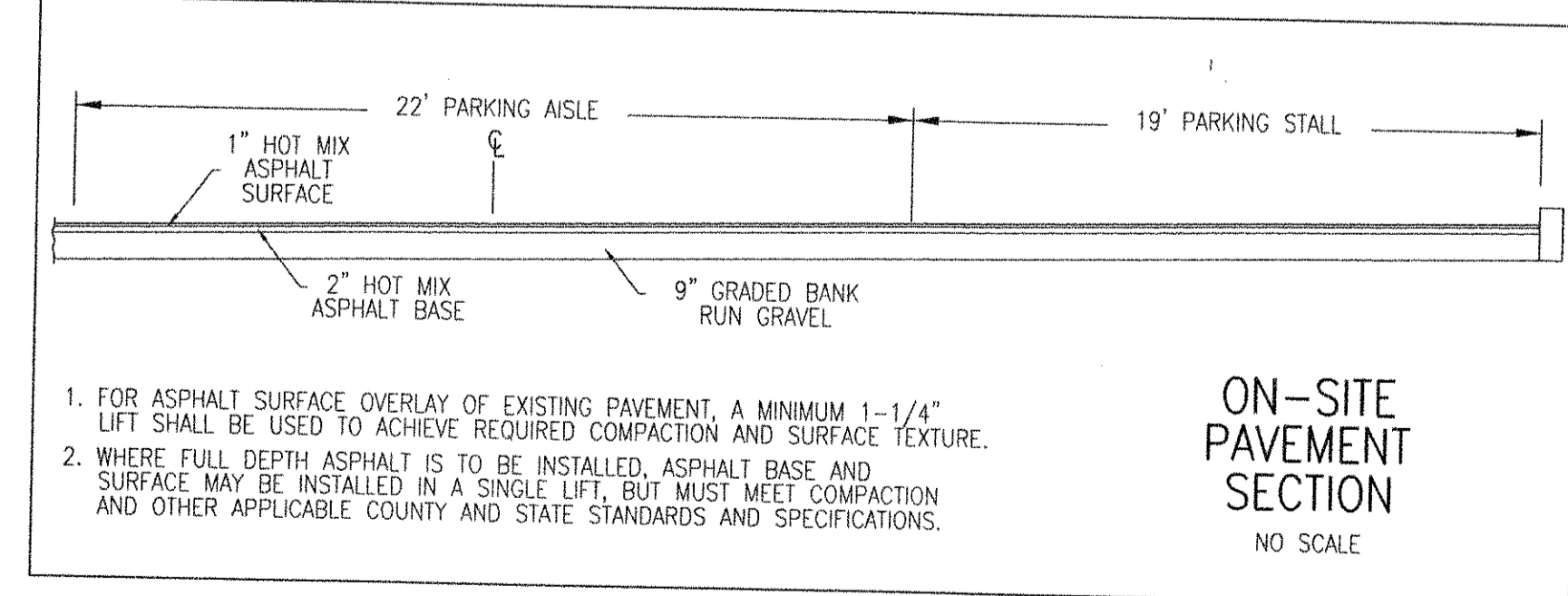
NOTE: GEOTECH ENGINEERS, INC.

TOTAL PIPE SCHEDULE AND MATERIAL LIST

DESCRIPTION	CLASS	QUANTITY	BONDED, INSPECTED AND MAINTAINED BY:
6" PERFORATED HDPE	TYPE S	112 L.F.	PRIVATE
6" SOLID HDPE	TYPE S	83 L.F.	PRIVATE
15" HDPE	TYPE S	73 L.F.	PRIVATE
60" CMP	12 GA	304 L.F.	PRIVATE

STORM STRUCTURE TABULATION

NO	TYPE	SPECIFICATION	TOP ELEV.	OUT INV.	OUT INV.	OUT INV.	IN INV.	IN INV.	IN INV.	SUMP INV.	BONDED, INSPECTED AND MAINTAINED BY:	SIZE W/DIA.
10	EW	15" CONC. END WALL PER P.G. CO. SD 30.0		237.35							PRIVATE	
11	MH	MANHOLE PER P.G. CO. SD 21.1	250.45	241.00			248.15	245.30			PRIVATE	4'
12	INLET	B-15 INLET PER P.G. CO. SD 12.0	256.00	251.40	250.15	249.65			245.90		PRIVATE	5'
13	RISER	CMP RISER	255.80		245.55		250.05				PRIVATE	4'
14A	RISER	CMP RISER	257.45	245.75							PRIVATE	4'
14	RISER	CMP RISER	257.65	245.75							PRIVATE	4'
15	RISER	CMP RISER	258.55	245.95							PRIVATE	4'



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 VARIOUS 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 RELOCATE ALL 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.

SD# 1837-2005-01
PROJECT NAME: BETH SHALOM AME ZION CHURCH
PRINCE GEORGE'S COUNTY, MD
DEPARTMENT OF ENVIRONMENTAL RESOURCES
APPROVED FOR STORMWATER MANAGEMENT AND STORM DRAIN ONLY
T. King 5/7/07 DATE