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Lee P. Thibodeau, PE MA, NH, ME
Robert E. Smith, PLS MA, NH
Denis Hamel, CPESC
Jim Babbin, SIT

Consulting Engineers and Land Surveyors

January 20, 2011

Town of Salisbury
Office of Planning and Development
5 Beach Road
Salisbury, Ma. 01952

ATTN: Ms. Lisa Pearson

RE: Salisbury Public Library Grant Application
Geotechnical Report/Soil Evaluation Information

Dear Ms. Pearson,

Representatives of this office conducted on-site deep observation holes (soil evaluations) at the subject site on January 20, 2011. Attached are three (3) soil log forms with results and a sketch plan of the general location of the deep observation holes.

In summary, areas to the north of the existing library appear to have been filled wetlands at some point in time as there is a gravel fill material, varying in depth from 2' -3', placed over an organic soil with hydric soils beneath. The area to the east of the existing library also appears to be filled land, although the soil beneath the fill does not appear to be a wetland soil. There was no ledge encountered at any of the test pit locations to the depths indicated in the test pit logs. Depths to estimated seasonal high water table varied from 33" to 50".

Due to the existence of the organic soil layer in areas where the library is proposed to be constructed, special consideration may be required for the building's foundation design in order to support the structure on these soils, unless these soils are removed and replaced with clean structural fill to support the building. This could impact the cost of developing the project site.

The project site has municipal sewer available, therefore no percolation testing was performed to determine if the site could support an on-site subsurface sanitary disposal system.

Based on a review of the project site by the Conservation Commission agent, it has been determined that there are no wetland resource areas on or within 100 feet of the project site. Refer to the letter dated January 20, 2011 from the office of the Salisbury Conservation Commission.

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If there are any questions regarding this information, please contact this office.

Sincerely,
W. C. Cammett Engineering, Inc.

Fred V. Ford, P.E.

w/: Attachments

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FORM 11 - SOIL EVALUATOR FORM

Job. #11002

On-Site Review

Deep Hole Number 11-01 Date 1/20/11 Time 9:30 Weather Sunny
Location (identify on site plan)
Land Use Commercial Slope (%) 1 Surface Stones None
Vegetation Grass
Landform
Position on landscape (sketch on the back)
Distances from:

Open Water Body	feet	Drainage way	feet
Possible Wet Area	feet	Property Line	80 feet
Drinking Water Well	feet	Other	

DEEP OBSERVATION HOLE LOG

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure,Stones,Boulders, Consistency, %Gravel)
0" - 6"	A	SL	10 YR 3/3		Friable
	Loam Fill				
6" – 30"	B	LS	2.5 Y 5/4		Loose
	Gravel Fill				30% Gravel
30" – 46"	B	S	2.5 Y 5/6	33"	Very Fine
	Sand Fill				
46" – 58"	O	L	10 YR 3/1		Friable
	Buried				
58" – 66"	C	S	5 Y 5/2		Friable
					Very Fine
					Single Granular

Receiving Layers N/A Design Class N/A

Parent Material (geologic) Organic Deposits Depth to Bedrock: None

Depth to Groundwater: Standing Water in the Hole: None Weeping from Pit Face: None

Estimated Seasonal High Ground Water: 33"

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FORM 11 - SOIL EVALUATOR FORM

Job. #11002

On-Site Review

Deep Hole Number 11-02 Date 1/20/11 Time 10:00 Weather Sunny
Location (identify on site plan)
Land Use Commercial Slope (%) 1 Surface Stones None
Vegetation Grass
Landform
Position on landscape (sketch on the back)
Distances from:

Open Water Body	feet	Drainage way	feet
Possible Wet Area	feet	Property Line	35 feet
Drinking Water Well	feet	Other	

DEEP OBSERVATION HOLE LOG

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure,Stones,Boulders, Consistency, %Gravel)
0" - 14"	Loam Fill	LS	10 YR 3/3		
14" – 34"	Gravel Fill	S	2.5 Y 5/4		35% Gravel
					Very Coarse
34" – 41"	A	SL	10 YR 3/3		Friable
	Buried				
41" – 50"	B	SL	7.5 YR 5/6	50"	Friable
					Medium
50" – 72"	C1	S	2.5 Y 6/6		Very Friable
					Very Fine
At Bottom of Hole	C2	SiL	2.5 Y 5/3		

Receiving Layers N/A Design Class N/A

Parent Material (geologic) Depth to Bedrock: None

Depth to Groundwater: Standing Water in the Hole: None Weeping from Pit Face: None

Estimated Seasonal High Ground Water: 50"

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FORM 11 - SOIL EVALUATOR FORM

Job. #11002

On-Site Review

Deep Hole Number 11-03 Date 1/20/11 Time 10:15 Weather Sunny
Location (identify on site plan)
Land Use Commercial Slope (%) 1 Surface Stones None
Vegetation Grass
Landform
Position on landscape (sketch on the back)
Distances from:

Open Water Body	feet	Drainage way	feet
Possible Wet Area	feet	Property Line	60 feet
Drinking Water Well	feet	Other	

DEEP OBSERVATION HOLE LOG

Depth from Surface (Inches)	Soil Horizon	Soil Texture (USDA)	Soil Color (Munsell)	Soil Mottling	Other (Structure,Stones,Boulders, Consistency, %Gravel)
0" - 5"	Laom Fill	LS	10 YR 3/3		
5" – 41"	Gravel Fill	LS	2.5 Y 5/4	36"	Loose
					40% Gravel
					Very Coarse
41" – 52"	O	L	10 YR 2/1		Friable
	Buried				
52" – 66"	C	S	5 YR 5/2		Very Friable
					Very Fine

Receiving Layers N/A Design Class N/A

Parent Material (geologic) Organic Deposits Depth to Bedrock: None

Depth to Groundwater: Standing Water in the Hole: 64" Weeping from Pit Face: 59"

Estimated Seasonal High Ground Water: 36"

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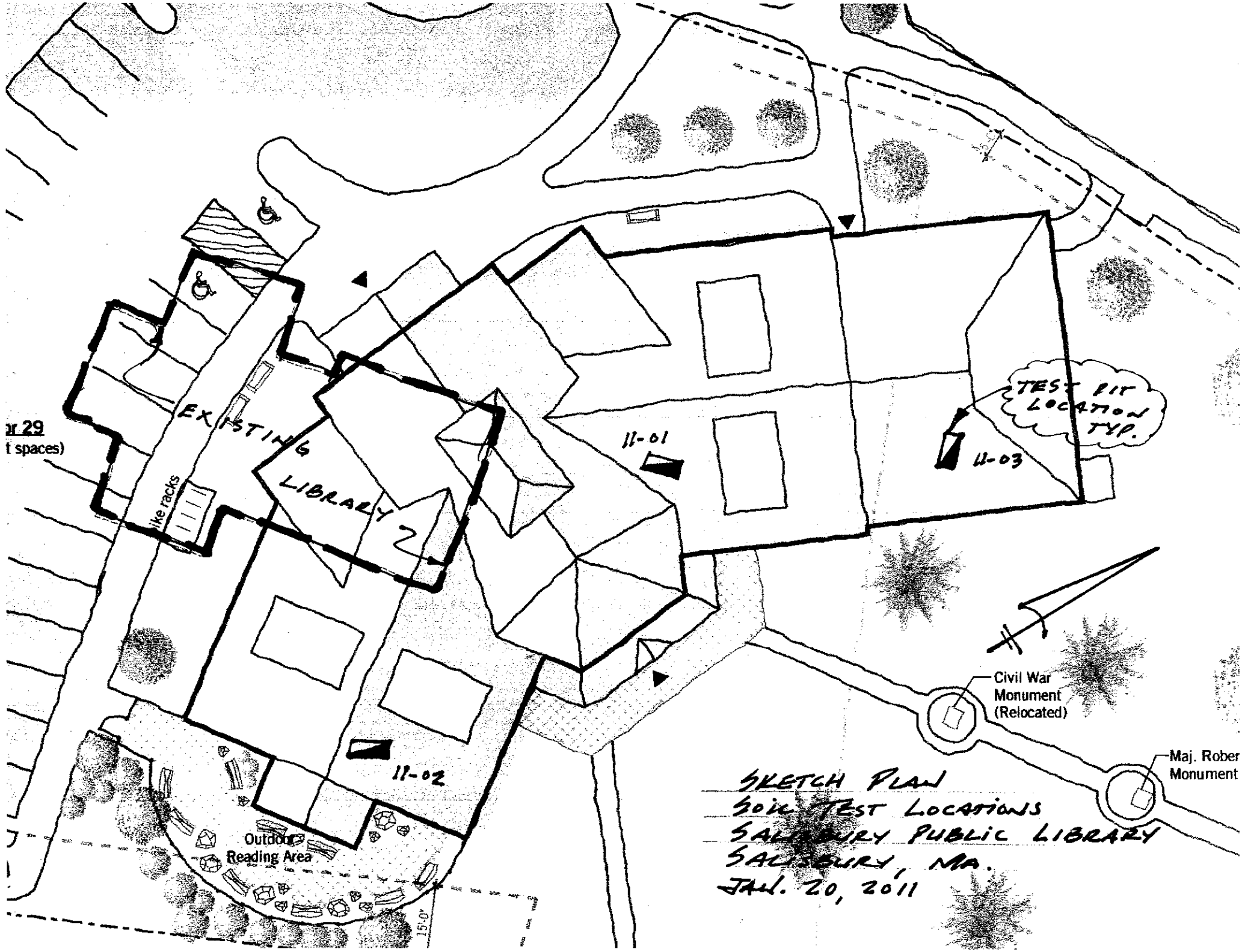
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