



June 29, 2021

Earth Removal Board
Town of Sudbury
278 Old Sudbury Road
Sudbury, Massachusetts 01776

**RE: Earth Removal Application
Herb Chambers of Sudbury
105 Boston Post Road, Sudbury, MA**

Dear Members of the Board,

On behalf of the owner and applicant, Herb Chambers of Sudbury, Inc. (HC), Crocker Design Group (CDG) has prepared the enclosed Earth Removal Application and supporting documents for the proposed site work at 105 Boston Post Road (The Site). Enclosed are the following supporting documents:

- Two (2) Copies Earth Removal Application
- Three (3) 24"x36" Copies of Proposed Site Development Plans revised 6/28/2021
- Twelve (12) 11"x17" Copies of Proposed Site Development Plans revised 6/28/2021
- One (1) Copy of the Application Fee (\$100 Check No. 1236)
- One (1) Copy of the Legal Ad Fee (\$25 Check No. 1235)
- Proof of Electronic Submittal

The Site is bound by Boston Post Road (Route 20) to the north, Soul of India restaurant to the north, Jaguar Land Rover Sudbury to the east, a commercial building to the west with various tenants, and vacant Industrial zoned land to the south, part of 141 Boston Post Road. The site is located on Parcel K11-0017 and is 3.37 acres. The property is located within the Industrial Zoning District.

The site was owned and operated by the Massachusetts Department of Transportation (MassDOT) for over 50 years. MassDOT used the site for vehicle storage/repair, salt storage, and sand dumping and storage. The hill in the middle of the site is assumed to be artificially created, due to years of dumping on the site.

The proposed project consists of a modernized lot for vehicle inventory storage and the renovation of an existing single-story metal structure for motor vehicle service. Construction will also include landscaping upgrades, stormwater treatment and drainage improvements and other associated utilities. The landscaping will screen the site and its operation post construction from Boston Post Road and its abutters.



The site work will include the removal of the existing pavement and crushed asphalt gravel areas to accommodate the site regrading necessary to meet the proposed finished grade of the modernized site configuration.

The most obvious change in topography will include the elevated “mound” of earth in the middle of the site. This area has an existing paved lot on the top, with a peak elevation around 150. Approximately 12’ above Boston Post Road at the driveway connection to the site.

The central mound bifurcates the site and must be removed to provide cohesive and organized inventory storage and vehicular circulation through the site.

Our firm has performed a cut and fill analysis of the overall site and have concluded the proposed earth work on site with result in a net export of approximately 14,250± Cubic Yards (CY) of soil from the site. Below is the breakdown of quantities utilized to calculate the 14,250± CY of exported material. During the bidding process with prospective site contractors, we will solicit their input on opportunities to re-use the existing soil and gravel materials most efficiently on site to minimize the total export volume.

Table 1.1 below shows the calculations done to determine the cut and fill on site. The overall cut and fill on site results in an export of 14,251.1 cubic yards of material on site.

A. OVERALL CUT-FILL (EXIST. TO PROP. SURFACE)				
				Volume cy
CUT				-14396.0
FILL				4306.0
NET (COMPUTER GENERATED)				-10090.0
B. VOLUME OF PROPOSED CONSTRUCTION ITEMS				
	Area (sf)	Depth (ft)	Volume (cf)	Volume (cy)
PROPOSED PARKING PVMNT	75389.0	1.30	98005.7	-3629.8
PROPOSED POROUS PVMNT	32578.0	2.25	73300.5	-2714.8
PROPOSED UG RETAIN IT	3444.0	4.67	16083.5	-595.7
LANDSCAPED AREAS (TOPSOIL)	16559.0	0.5	8279.5	-306.6
TOTAL CONSTRUCTION VOLUME	124526.0			-7247.0
C. VOLUME OF EXISTING ITEMS TO BE REMOVED				
	Area (sf)	Depth (ft)	Volume (cf)	Volume (cy)
PAVEMENT AREAS	70190.0	0.8	56152.0	2079.7
GRAVEL AREAS	26230.0	0.5	13115.0	485.7
TOPSOIL	28106.0	0.5	14053.0	520.5
TOTAL STRIPPING	124526.0			3085.9
D. TOTAL (CY):				-14251.1
				EXPORT

Table 1.1



The Site Plan set, prepared by CDG, last revised June 28, 2021, includes the proposed demolition of existing conditions and the proposed grading of the site. The removal of material will be performed utilizing excavators, front end loaders, and dump trucks. All construction traffic will enter the site via the existing driveway entrance via Boston Post Road. A construction entrance will be provided to minimize soil sediment on Boston Post Road.

In our opinion, the proposed project provides a significant modernization of the site and will greatly improve stormwater quality through construction of a new stormwater management system, will provide greater visual screening for Boston Post Road and the abutting office complex with new plantings and the removal of the elevated mound that exists in the middle of the property today.

Sincerely,

Crocker Design Group, LLC

A handwritten signature in blue ink, appearing to read "Gabriel Crocker", is written over a horizontal line.

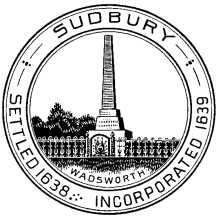
Gabriel Crocker, P.E.
President



Attachments

- **Earth Removal Application**
- **Soil Logs by Haley and Aldrich**
- **Site Plan Set by Crocker Design Group, LLC (Under Separate Cover)**

Earth Removal Application



Town of Sudbury

Earth Removal Board

appeals@sudbury.ma.us

<http://www.sudbury.ma.us/services/planning>

Flynn Building
278 Old Sudbury Rd
Sudbury, MA 01776
978-639-3389
Fax: 978-443-0756

APPLICATION FOR EARTH REMOVAL

Date: 6/29/21

1. Location of proposed excavation: 105 Boston Post Road

2. Legal name and address of owner of property involved.
83 Boston Post Road, LLC c/o The Herb Chambers Companies
47 Eastern Boulevard
Glastonbury, CT 06033
Telephone: 617-666-8333
E-mail: jwelch@herbchambers.com

3. Legal name and address of petitioner. This will be used by the Board for all correspondence in the case. NOTE: If the petitioner is not the owner of property, a statement must be provided to the effect that the petitioner is a party with standing authorized to execute a permit.
83 Boston Post Road, LLC c/o The Herb Chambers Companies
47 Eastern Boulevard
Glastonbury, CT 06033
Telephone: 617-666-8333
E-mail: jwelch@herbchambers.com

4. Estimate of the quantity and type of material to be removed. 14,250± cubic yards consisting of pavement, gravel, topsoil, and fill material placed at the site over years of use by the Massachusetts Department of Transportation.

5. Description and location of any temporary structures. No temporary structures are proposed.

6. Description of the proposed method of removal, hours of operation, and routes for transporting material through the town.
See Narrative

7. Start date for removal Fall 2021 Completion date Fall 2022

8. Petitioner must provide a plan of the land involved, prepared by a registered land surveyor or civil engineer, showing by 5-foot contours within 100 feet of the proposed excavation or to the property line: (a) existing topography and (b) contours of the site as of the proposed completion of the excavation. See the Rules of the Earth Removal Board for number of copies required to be submitted.

Where the natural grade is not to be changed by more than 5 feet at any point, or where, in the opinion of the Board, existing and proposed conditions can adequately be determined without benefit of a plan, this requirement may be waived. If a waiver of the plan is believed justified, attach a statement to this application containing a description and sketch of the property and a justification on which the Board may evaluate the request for a waiver.

9. Be advised that the Board may require the submission of additional information or supporting documentation with regard to this application.
10. Proposed form of bond or security to be used (circle one):

Certified Check Surety Company Bond

11. This application must be submitted in duplicate and must be accompanied by the following:

\$100.00 filing fee (payable to the Town of Sudbury)
\$25.00 advertising fee (payable to the Town of Sudbury)

 (Representative)

Signature of Applicant

SOILS TESTING DATA

PROJECT	Herb Chambers Mercedes of Sudbury Inventory Lot	H&A FILE NO.	135627-002
LOCATION	Sudbury, MA	PROJECT MGR.	B. Grunert
CLIENT	The Herb Chambers Companies	FIELD REP	S. Shay
CONTRACTOR	Earthwork Industries, Inc., Plainville, MA	DATE	7 Dec 2020
EQUIPMENT	Doosan Dx50 Small Excavator	WEATHER	Bright Sun, 30's °F

Ground El. _____ ft.	Location _____ See Plan	Groundwater depths/entry rates (in./min.):
El. Datum _____		3.0' with wet sand during excavation

Depth (ft.)	Sample ID	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand			Field Test				
					% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0	bag			Brown, silty SAND (SM). No oversized, mps 3" No structure, no odor, moist. 10% leaf debris. - FILL -	5	5	20	20	30	20				
2		2.0												
4	(3-6)		SW	Brown well-graded SAND (SW). 8-10% oversized. mps 4" no well-rounded cobbles, single grain structure, no odor, well at 3' well stratified. - GLACIOFLUVIAL DEPOSITS -	5	5	30	30	30					
6				Bottom of EXPLORATION AT 6.0'										

Obstructions: <u>None</u>	Remarks:	Field Tests
		Dilatancy: R - Rapid S - Slow N - None
		Toughness: L - Low M - Medium H - High
	Standard test pit backfill	Plasticity: N - Nonplastic L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:		Boulders:		Test Pit Dimensions (ft.):	
at depth _____ ft.	measured after _____ hrs. elapsed	Diameter (in.) _____	Number _____	Approx. vol. (cu. ft.) _____	Pit Depth _____
5.2	0.5	12 to 24	None	_____	6.0
		over 24		_____	Pit Length X Width _____
					9x3

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT	Herb Chambers Inventory Lot	H&A FILE NO.	135627-002
LOCATION	Sudbury, MA	PROJECT MGR.	B. Grunert
CLIENT	The Herb Chambers Companies	FIELD REP	S. Shay
CONTRACTOR	Earthwork Industries, Inc., Plainville, MA	DATE	7 Dec 2020
EQUIPMENT	Doosan Dx50 Small Excavator	WEATHER	Bright Sun, 30's °F

Ground El.	_____ ft.	Location	See Plan	Groundwater depths/entry rates (in./min.):	4.0' / moderately
El. Datum	_____				

Depth (ft.)	Sample ID	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand				Field Test			
					% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0			SM	Brown, silty SAND (SM). No oversized MPS 1/2" no structure, no odor, moist.			15	25	45	15				
0.8														
1			SP-SM	Red brown to brown, poorly-graded SAND with silt and gravel (SP-SM). No structure, no odor, moist. Appears to be disturbed.	5	10	15	40	20	10				
2														
2.3			OL/OH	Black ORGANIC SOIL (OL/OH). No oversized, MPS 0.1". No structure, slight organic odor, moist. 5% fibers - ORGANIC DEPOSITS -							100			
3			SM	Dark orange brown, silty SAND (SM). No oversized MPS 1/2". No structure, no odor, moist. Trace roots - SUBSOIL -			15	55	30					
4			ML	Olive gray with weak orange brown irregular mottling SILT with sand (ML). No oversized MPS 0.1". No structure, no odor, wet. GLACIOLAKESTRINE DEPOSITS			5	5	5	85				
5				Bottom of EXPLORATION AT 4.0'										

Obstructions:	<i>None</i>	Remarks:		Field Tests
				Dilatancy: R - Rapid S - Slow N - None
				Toughness: L - Low M - Medium H - High
				Plasticity: N - Nonplastic L - Low M - Medium H - High
				Dry Strength: N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:	Diameter (in.)	Number	Approx. vol. (cu. ft.)	Test Pit Dimensions (ft.):
at depth _____ ft.	12 to 24	_____	_____	Pit Depth _____
measured after _____ hrs. elapsed	over 24	_____	_____	Pit Length X Width _____

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT	Herb Chambers Inventory Lot	H&A FILE NO.	135627-002
LOCATION	Sudbury, MA	PROJECT MGR.	B. Grunert
CLIENT	The Herb Chambers Companies	FIELD REP	S. Shay
CONTRACTOR	Earthwork Industries, Inc., Plainville, MA	DATE	7 Dec 2020
EQUIPMENT	Doosan Dx50 Small Excavator	WEATHER	Bright sun 30.5°F

Ground El. _____ ft. Location See Plan Groundwater depths/entry rates (in./min.): 4.5' rapidly
El. Datum _____

Depth (ft.)	Sample ID	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand				Field Test			
					% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0	<u>21P-102</u>		SM	Brown silty SAND (SM). No oversized max 2". No structure, no odor, moist. 10% leaf debris.			15	20	50	15				
		1.0												
		1.2		Asphalt layer										
2	<u>(2-4)</u>		SP	Red brown poorly-graded SAND (SP). 15% oversized as well rounded cobbles. max 6". Single grain structure, no odor, moist. Appears to be disturbed.	5	5	10	50	30					
4		4.6		Fill										
6		6.0	OL/OH	Black, ORGANIC silt (OL, OH), No oversized, slight organic odor, wet. 10% fibers. ORGANIC DEPOSIT						100				
6	<u>(6-7.5)</u>		ML	Olive gray silt with sand (ML). No oversized, max 0.1". No structure, no odor, wet. GLACIO-LACUSTRINE DEPOSITS						15	85			
8				Bottom of Exploration at 7.5'										

Obstructions: <u>None</u>	Remarks: Standard test pit backfill	Field Tests	
		Dilatancy:	R - Rapid S - Slow N - None
		Toughness:	L - Low M - Medium H - High
		Plasticity:	N - Nonplastic L - Low M - Medium H - High
		Dry Strength:	N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:		Boulders:		Test Pit Dimensions (ft.):	
at depth	<u>6.0</u> ft.	Diameter (in.)	Number	Pit Depth	<u>7.5</u>
measured after	<u>0.5</u> hrs. elapsed	12 to 24	<u>None</u>	Pit Length X Width	<u>9 x 3</u>
		over 24			

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.

PROJECT	Herb Chambers Inventory Lot	H&A FILE NO.	135627-002
LOCATION	Sudbury, MA	PROJECT MGR.	B. Grunert
CLIENT	The Herb Chambers Companies	FIELD REP	S. Shay
CONTRACTOR	Earthwork Industries, Inc., Plainville, MA	DATE	7 Dec 2020
EQUIPMENT	Doosan Dx50 Small Excavator	WEATHER	Bright sun 70's °F

Ground El.	ft.	Location	See Plan	Groundwater depths/entry rates (in./min.):	4.6/rapidly
El. Datum					

Depth (ft.)	Sample ID	Stratum Change Depth (ft.)	USCS Symbol	Visual Identification (Color, GROUP NAME & SYMBOL, % oversized, maximum particle size, structure, odor, moisture, optional descriptions, geologic interpretation)	Gravel		Sand				Field Test			
					% Coarse	% Fine	% Coarse	% Medium	% Fine	% Fines	Dilatancy	Toughness	Plasticity	Strength
0	2P lock Bag		SM	Brown, silty SAND (SM). NO OVERSIZED, APS 2" NO STRUCTURE, NO ODO, moist. 10% roots and leaf litter			15	20	50	15				
1.0														
2			SP	Red brown, poorly-graded SAND (SP). 12% oversized MPS 3". Single grain structure, no odor, moist. Appears to be dewatered.	5	5	10	40	35	5				
				- Fill -										
4		4.5	OL/OH	Black, ORGANIC SOIL (OL/OH). NO OVERSIZED, MPS 0.1". NO STRUCTURE, organic odor, wet. trace fibers. - ORGANIC DEPOSITS -							100			
6	(6-7.5)	5.8	SP	Gray poorly-graded SAND with gravel (SP). 2% oversized, MPS 35". NO STRUCTURE, NO odor, wet. - GLACIOFLUVIAL DEPOSITS -	10	10	20	30	25					
8				BOTTOM OF EXPLORATION AT 4.5'										

Obstructions:	Remarks:	Field Tests
None	Difficult to characterize glaciofluvial structure blender writer Standard test pit backfill	Dilatancy: R - Rapid S - Slow N - None Toughness: L - Low M - Medium H - High Plasticity: N - Nonplastic L - Low M - Medium H - High Dry Strength: N - None L - Low M - Medium H - High V - Very High

Standing water in completed pit:	Diameter (in.)	Number	Approx. vol. (cu. ft.)	Test Pit Dimensions (ft.):
at depth 4.6 ft.	12 to 24	None		Pit Depth 7.5
measured after 0.5 hrs. elapsed	over 24			Pit Length X Width 9x3

NOTE: Soil identifications based on visual/manual methods of the USCS system as practiced by Haley & Aldrich, Inc.