



BEGIN PROJECT
 STA. 0+10.00
 MEET EXISTING
 N3109535.5314
 E772829.7828

LAKE SALTONSTALL (PLUG POND)

PROPOSED FLOATING
 DOCK REMOVAL

RESOURCE
 AREA
 'A1'

PROPOSED ASPHALT
 REMOVAL (TYP.)

RESOURCE
 AREA
 'A2'

TABLE 1 - PROPOSED IMPERVIOUS AREAS

LOCATION / DESCRIPTION	AREAS (SQUARE FEET)				TOTAL
	WITHIN BLSF ¹	WITHIN BVW	0-25'	25-50'	
RESOURCE AREA A1 (LAKE SALTONSTALL)					
PROPOSED CRUSHED GRAVEL PATH	0	0	0	522	860
RESOURCE AREA A2 (WOODED WETLAND)					
PROPOSED CRUSHED GRAVEL PATH	0	0	229	2,732	3,173
PROPOSED ASPHALT PARKING	0	0	0	0	928
TOTAL AREA	0	0	229	3254	4961

¹Note: BLSF occurs within the 0-25 foot buffer and is included in the buffer total impact/mitigation area, but is also quantified in the BLSF column for the purposes of the narrative.
²Note: Portions of the 50'-100' Buffer for Area A and B overlap.

TABLE 2 - PROPOSED GRADING AREAS²

LOCATION / DESCRIPTION	AREAS (SQUARE FEET)				TOTAL
	WITHIN BLSF ¹	WITHIN BVW	0-25'	25-50'	
RESOURCE AREA A1 (LAKE SALTONSTALL)					
GRADING FOR PATH & PARKING SHOULDERS	0	0	918	3,726	1,371
GRADING/TRENCHING FOR UTILITY WORK	0	0	448	321	769
GRADING FOR FENCE CONSTRUCTION	15	0	127	27	206
RESOURCE AREA A2 (WOODED WETLAND)					
GRADING FOR PATH & PARKING SHOULDERS	0	0	845	2,750	3,595
GRADING/TRENCHING FOR UTILITY WORK	0	153	927	1,056	1,132
GRADING FOR PLAYGROUND AREA	0	0	0	0	4,038
TOTAL AREA	15	153	1,972	6,102	9,664

¹Note: Graded areas are not calculated into the mitigation impacts, as they will be returned to a similar condition to existing, however the table is included for the purposes of the narrative.

Total Proposed Impacts/Required Mitigation

Proposed temporary impacts to BVW:	(Table 1 above)	X 1:1 Mitigation =	153 sf
TOTAL			153 sf (0.00 ac)

TABLE 3- PROPOSED IMPACT MITIGATION/ RESTORATION AREAS

LOCATION / DESCRIPTION	AREAS (SQUARE FEET)				TOTAL
	AREA	WITHIN BLSF ¹	WITHIN BVW	0-25'	
RESOURCE AREA A1 (LAKE SALTONSTALL)					
IMPERVIOUS PAVEMENT REMOVAL	0	0	2,990	4,190	1,170
CHAIN LINK FENCE REMOVAL	33	80	32	33	60
FLOATING DOCK REMOVAL ²	80	20	80	0	100
RESOURCE AREA A2 (WOODED WETLAND)					
IMPERVIOUS PAVEMENT REMOVAL	0	0	108	23	0
OVERHEAD WIRE REMOVAL	0	120	197	108	170
BVW RESTORATION	0	153	0	0	153
TOTAL AREA	113	373	3,407	4,354	1,400

¹Note: BLSF occurs within the 0-25 foot buffer and is included in the buffer total impact/mitigation area, but is also quantified in the BLSF column for the purposes of the narrative.
²Note: Dock removal includes 415 SF of area covering Land Under Water (LUW).

Total Proposed Mitigation

Proposed pavement removal within buffer:	(Table 3 above)		8,480 sf
LUW Restoration:	Removal of 20'x20' dock and portion of walk		415 sf
BLSF Restoration:	(Table 3 above)		113 sf
Proposed BVW restoration:	(Table 3 above)		373 sf
TOTAL			9,381 sf (0.22 ac)

LEGEND

- 0-25' 25-50' 50-100' IMPERVIOUS ASPHALT REMOVAL
- 0-25' 25-50' 50-100' PROPOSED IMPERVIOUS PATH / PARKING
- 0-25' 25-50' 50-100' PROPOSED REGRADING, LOAM & SEED
- 0-25' 25-50' 50-100' PROPOSED UNDERGROUND UTILITY INSTALLATION
- TEMPORARY BVW IMPACT
- TEMPORARY LAND UNDER WATER IMPACT
- PROPOSED WOOD FIBER SAFETY SURFACING
- TEMPORARY BANK IMPACT
- BOUNDARY OF BLSF
- PROPOSED CHAIN LINK FENCE REMOVAL
- PROPOSED CHAIN LINK FENCE INSTALLATION
- PROPOSED OVERHEAD WIRE REMOVAL

SEAL:

OWNER:
 CITY OF HAVERHILL
 4 Summer Street
 Haverhill, MA 01830

OWNERS PROJECT MANAGER:
Groundwork Lawrence
 50 Island Street
 Lawrence, MA 01840

DESIGN TEAM:
Greenman-Pedersen, Inc.
 Landscape Architecture
 Civil Engineering
 Environmental Permitting

PROJECT:
**Plug Pond
 Recreation
 Improvements**
 45/50 Sanders Road
 Haverhill, MA 01830

REVISIONS

NO.	REVISION	DATE

NEX 2021095.00
 DRAWN/DESIGN BY: BJE/RSH
 CHECKED BY: SAC

RESOURCE AREA IMPACT AND RESTORATION PLAN

SCALE:
 1" = 30'-0"

NOVEMBER 23, 2021

1 SHEET