



Londonderry Conservation Commission
Tuesday, May 28, 2013
Minutes

1 Present: Deb Lievens; Gene Harrington; Mike Considine; Truda Bloom; Ben LaBrecque; and Marge Badois

2

3 D. Lievens called the meeting to order at 7:33 PM.

4

5 NeighborWorks Subdivision and Site Plans (CUPs and D+F)- Robert Tourigny and Tom Krebs of
6 NeighborWorks Southern New Hampshire were joined by engineer Earle Blatchford of Hayner/Swanson,
7 Inc. and Luke Hurley of Gove Environmental to present three Conditional Use Permits (CUPs) and a
8 Minimum Impact Dredge and Fill (D+F) application associated with a proposed 78-unit rental workforce
9 housing project on map 12, lot 59-3. The subdivision would carve out the 20.1 acres needed per the
10 inclusionary housing ordinance and create new lot 59-4 (see Attachment #1). Through a variance
11 obtained from the Zoning Board of Adjustment, the 12-building development will be constructed in two
12 phases; 38 units in the first and 40 in the second (see Attachment #2). NeighborWorks will own and
13 manage the two and three bedroom two-story townhouses and community building and are making use
14 of existing 2003 approvals granted for Whittemore Estates wherever possible. What remains of 59-3
15 would continue on as the Whittemore Estates development approved in 2004 where four additional
16 buildings, including a clubhouse, have yet to be built by a separate developer (see Attachment #3).
17 Town staff requested that the applicant submit, along with the site and subdivision plans for the new
18 development, an amended site plan for the remainder of Whittemore Estates in order to update Town
19 records. The existing conservation easement (see Attachment #1) created during the Whittemore
20 Estates project and deeded to the Town will not be impacted by the new development and will remain
21 in its entirety with lot 59-3.

22 Three CUPs are being sought, the first two being related to Conservation Overlay District (COD)
23 buffer impacts on lot 59-4. These are caused in large part by the required stormwater management
24 area along the northeastern side of the property which abuts a perennial stream (causing 26,900 square
25 feet of 100-foot buffer impacts), as well as construction of smaller drainage structures (6,840 sf of
26 impact on the 50-foot buffer) (see Attachment #4). E. Blatchford explained that constraints caused by
27 wetlands, COD buffers and an existing sewer easement made an alternate location of the management
28 area impossible, nor could it be made perpendicular to the buffer to minimize impact. Instead, it was
29 designed to at least occupy only the first 50 feet of the 100-foot buffer. For safety and liability reasons,
30 the management area will be fenced.

31 D. Lievens and G. Harrington asked about proposed maintenance to the portion of the
32 stormwater management area within the buffer. E. Blatchford replied that periodic inspection and the
33 necessary removal of excess sediment (and/or trash) would be the only intrusion, allowing the buffer to
34 re-vegetate naturally. Native wetland plants will be established in the basin of the structure, although
35 they will be monitored and maintained so that they do not become overgrown and trap more sediment.
36 It was confirmed with the applicant that no mowing would take place in the buffer, nor would any
37 chemicals for turf or for herbicides be used to manage any vegetation. It was also confirmed that
38 vegetation will be allowed to grow through the fence and only pruned manually if they pose any
39 damage.



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40 G. Harrington asked if the design of the parking lot on the southernmost end of the development
41 (see Attachment #4) could be reconfigured in a way that would lessen the proposed impact of over 25
42 feet into the 50-foot COD buffer located there. E. Blatchford said he should be able to rearrange some
43 parking spaces and limit that impact to a maximum of 25 feet. D. Lievens noted that the two separate
44 forms used (Form "A" for a permitted use and Form "B" for buffer reduction) could actually be
45 combined into a single Form "A," since drainage structures are a permitted use in the COD with approval
46 of a CUP. **G. Harrington made a motion to authorize the Chair to review the amended Form "A,"**
47 **which would combine the two forms presented at this meeting, and upon confirming that no**
48 **modifications were made to the information contained therein, relay the Commission's**
49 **recommendation to the Planning Board to approve the Conditional Use Permit for proposed map and**
50 **lot 12-59-4. M. Considine seconded. The motion was approved, 6-0-0.**

51 The third CUP is related to the existing Whittemore Estates site and is renewal of the original CUP
52 obtained for that development. A previously approved driveway crossing to the easternmost buildings
53 proposed on lot 59-3 (see Attachment #5) will create 10, 185 sf of buffer intrusion as well as 2,670 sf of
54 wetland impacts. E. Blatchford noted that the majority of the buffer impacts have already occurred
55 since the area of Phase II of Whittemore Estates was cleared at the time Phase I was built. A Minimum
56 Impact D+F application will be submitted to the State Wetlands Bureau to update that previously
57 permitted wetland impacts. The square footage of those wetland impacts, E. Blatchford pointed out, are
58 only roughly half the size of the impact initially approved for Whittemore Estates, and a quarter of the
59 size of impacts approved for a preceding project. He added that the combined buffer impacts on 59-4
60 and 59-3 are approximately 9,000 sf less than the total permitted in 2003 for Whittemore Estates.
61 Typically, a site walk performed by at least two Commissioners would take place for a Minimum Impact
62 D+F, however pictures taken in December 2012 by Gove Environmental were reviewed and deemed
63 sufficient. **G. Harrington made a motion to recommend approval of the Conditional Use Permit for**
64 **the amended Whittemore Estates site plan dated May, 2013 to the Planning Board. M. Considine**
65 **seconded. The motion was approved, 6-0-0. T. Bloom made a motion to recommend approval to**
66 **the Wetlands Bureau of the Minimum Expedited Dredge and Fill as presented. G. Harrington**
67 **seconded. The motion was approved, 6-0-0.**

68 The issue of COD buffer signage was discussed, first with the question of whether signage was
69 placed on the Whittemore Estates buffer. E. Blatchford did not think it had been marked, but was not
70 sure. Per Town Site Plan Regulations, COD signs are required every 50 feet along the buffer.
71 Considering the number of signs that would therefore be required for the significant length of buffer
72 involved, D. Lievens offered to consult with the applicant and Town staff to strategically locate signs in a
73 way that would resolve the issue but still adequately mark the buffer. **G. Harrington made a motion to**
74 **authorize the Chair to work with the applicant and Town staff and any other Boards and Commissions**
75 **to generate a location plan for COD signage on Map 12, Lot 59-4. T. Bloom seconded. The motion**
76 **was approved, 6-0-0.**

77
78 Invasive plant species (Phragmites and Purple Loosestrife)- D. Lievens was joined by entomologist



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79 Michael Morrison of Municipal Pest Management Services, Inc. on a site walk of map 6, lot 113 to
80 survey the extent of the invasive plant Phragmites found on that Town owned property. D. Lievens
81 presented the contract bid supplied by M. Morrison to the Commission, noting that only one bid could
82 be obtained due to the limited availability of licensed experts trained to apply herbicides in wetlands.
83 The requisite wetlands permit would cost \$290, while the herbicide applications and dead biomass
84 mowing would cost an additional \$3,880 (see Attachment #6). Permission has been obtained in
85 writing from the three abutters on map 6, lots 110-3, 110-4, and 110-5 to access the rear portions of
86 their lots where the Phragmites has spread. M. Morrison will also be contacting one of the abutters
87 about gaining access to 6-113 through one of their lots. **M. Considine made a motion to authorize**
88 **the Chair to sign the contract with Municipal Pest Management Services, Inc. and to authorize the**
89 **Chair to expend an amount not to exceed \$4,170 from the Open Space Protection Fund for work**
90 **associated with the stewardship of map 6, lot 113, that being the elimination the invasive**
91 **Phragmites species. T. Bloom seconded. The motion was approved, 6-0-0.**

92 D. Lievens said she forwarded the estimate to School Department staff so that they could have
93 the opportunity to remove the Phragmites growing in front of the High School if they so choose. She
94 also reported that the Galerucella beetles purchased and released on 6-113 to combat the invasive
95 Purple Loosestrife appear to be effective at controlling the plant.

96
97 Monitoring- Holly Green of the NH Department of Environmental Services recently contacted the
98 Rockingham Country Conservation District (RCCD) requesting to be included in the next annual
99 monitoring of the Ingersoll easements. Since they could not grant the necessary consent for her to do
100 so, D. Lievens contacted H. Green to give permission on behalf of the Town, although she explained
101 that the next monitoring would not take place until sometime after the start of the next fiscal year on
102 July 1, 2013. To obtain an estimate for the work, **G. Harrington made a motion to authorize the**
103 **Chair to contact RCCD to obtain an estimate to monitor the Ingersoll easements in fiscal year**
104 **2013/2014. M. Badois seconded. The motion was approved, 6-0-0.**

105
106 ATV activity on conservation land- A letter recently sent to D. Lievens claims that residents of the Reed
107 Street area are using an un-trailed access with their ATVs that leads to the Kendall Pond Conservation
108 Area (map 4, lot 56). While examining a map of the area, G. Harrington noted that the ATVs would
109 have to cross Beaver Brook to access KPCA. It was thought that perhaps instead, the ATVs are
110 accessing privately owned land on map 7, lot 30 to the south or State owned conservation land to the
111 north on map 7, lot 112. M. Considine offered to contact the State Conservation Officer so the State
112 can investigate possible ATV activity on their property.

113
114 DRC- Nevins Retirement Cooperative Association – Site Plan Amendment, Map 7 Lot 122-
115 Comments: Our original recommendation to have the walking trail stands.

116
117 Land Use Change Tax- D. Lievens reported that to date, the Land Use Change Tax (LUCT) has generated



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118 \$126,827.20 in revenue for the Conservation Fund. At the 2012 Town Meeting, a citizen's petition
119 was approved whereby 40% of any LUCT funds collected beyond \$100,000 would be directed to the
120 general fund. D. Lievens said she would confirm with the Finance Director whether the \$126,827.20
121 figure reflects the amount before or after the transfer to the general fund.

122
123 Bridges of Historical Significance- The New Hampshire Department of Transportation (DOT) is seeking
124 assistance from various municipalities to help identify "readily known bridges built after 1945 that
125 have exceptional historic significance." D. Lievens made the information, including photographic
126 examples, available to Commissioners in the event any had recommendations to make to DOT.

127
128 May 14, 2013 minutes- **T. Bloom made a motion to approve the minutes of the May 14, 2013 public**
129 **session as written. G. Harrington seconded. The motion was approved, 6-0-0.**

130 **M. Considine made a motion to approve the minutes of the May 14, 2013 non-public session**
131 **as written. B. LaBrecque seconded. The motion was approved, 6-0-0.**

132
133 Target shooting in the Musquash- M. Considine reported that he spoke with the Town Attorney on this
134 issue (see May 14, 2013 minutes), but did not receive any significant guidance on the matter. He said
135 he would talk again with the Town Manager and will also contact the State Conservation Officer to
136 investigate how target shooting is prohibited in State parks (assuming it is). D. Lievens offered to
137 contact the State Department of Resources and Economic Development (DRED) as well. Approaching
138 local State legislators to craft a bill that would somehow restrict target shooting in the Musquash was
139 also discussed.

140
141 **T. Bloom made a motion to go into Non-Public Session per RSA 91-A:3 for the purpose of discussing**
142 **possible land acquisitions as well as the potential release of portions of non-public minutes regarding**
143 **possible land acquisitions. M. Badois seconded.**

144
145 **Roll call vote: Aye, Marge Badois; Aye, Gene Harrington; Aye, Deb Lievens; Aye, Truda Bloom; Aye,**
146 **Mike Considine; and Aye, Ben LaBrecque.**

147
148 **G. Harrington made a motion to go out of Non-Public Session. T. Boom seconded. The motion was**
149 **approved, 6-0-0.**

150
151 **G. Harrington made a motion to seal the minutes of the Non-Public Session indefinitely. T. Bloom**
152 **seconded. The motion was approved, 6-0-0.**

153
154 **G. Harrington made a motion to release the previously redacted portions of the non-public minutes as**
155 **discussed in the non-public session. M. Considine seconded. The motion was approved, 6-0-0.**

156



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157 **T. Bloom made motion to adjourn the meeting. G. Harrington seconded. The motion was**
158 **approved, 6-0-0.**

159

160 The meeting adjourned at 9:55 PM.

161

162 Respectfully submitted,

163

164

165

166 Jaye Trottier

167 Secretary

NOTES:

- PURPOSE OF PLAN TO SUBDIVIDE LOT 59-3 INTO TWO (2) LOTS BEING NEW LOT 59-3 AND NEW LOT 59-4.
- LOT AREAS:

	PROPOSED	EXISTING
(LOT 59-3)	29.806 ACRES (1,298,350 SF)	48.825 ACRES (2,192,241 SF)
(LOT 59-4)	20.119 ACRES (878,367 SF)	
- PRESENT ZONING: AR-1; AGRICULTURAL-RESIDENTIAL
 ELDERLY HOUSING DISTRICT (LOT 59-3 ONLY)
 MULTI-FAMILY WORKFORCE HOUSING (LOT 59-4 ONLY)
 MINIMUM LOT REQUIREMENTS:

	NEW	NEW
LOT AREA	LOT 59-3	LOT 59-4
LOT FRONTAGE	15 ACRES	20 ACRES
MINIMUM BUILDING SETBACKS:		
-FRONT YARD	40 FT	40 FT
-SIDE YARD	30 FT	30 FT
-REAR YARD	30 FT	30 FT
-BUILDING SEPARATION	80 FT	30 FT
- LOT USE:

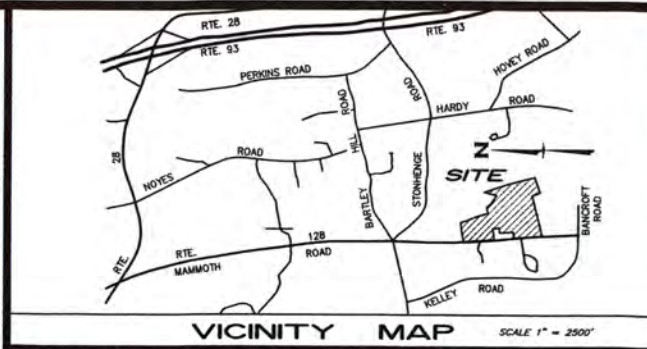
EXISTING USE:	NEW LOT 59-3	NEW LOT 59-4
	RESIDENTIAL (ELDERLY)	UNDEVELOPED
PROPOSED USE:	RESIDENTIAL (ELDERLY)	RESIDENTIAL (WORKFORCE)
- LOT 59-3 IS SERVICED BY MUNICIPAL SEWER AND WATER SUPPLY BY PENNICKUCK WATER WORKS.
- THE PARCEL ARE NOT LOCATED WITHIN THE 100-YEAR FLOOD BOUNDARY AS DETERMINED FROM THE FLOOD INSURANCE STUDY, TOWN OF LONDONDERRY, NH, PREPARED BY THE FEDERAL EMERGENCY MANAGEMENT AGENCY, PANEL NUMBER: 33015C0319E, DATED: MAY 17, 2005.
- THIS PLAN CONSISTS OF FIFTEEN (15) SHEETS, SHEETS 1-4 OF 15 WILL BE RECORDED AT THE ROCKINGHAM COUNTY REGISTRY OF DEEDS, SHEETS 1-15 OF 15 ARE ON RECORD AT THE TOWN OF LONDONDERRY PLANNING DEPARTMENT.
- OWNER OF RECORD:

LOT 59-3, MAP 12
 LONDONDERRY LENDING TRUST
 c/o ROBERT V. WALLACE JR.
 132 LINCOLN STREET, SUITE 6L
 BOSTON, MA 02111
 RCRD - BK 4941, PG 2694

LOT 120 & 131 MAP 12
 SNYDER LIVING TRUST
 WARREN P. & PHYLLIS N. SYNDER, TRUSTEES
 P.O. BOX 119
 ROCHESTER, NH 03866
 VOL. 4753 PG. 0861
 (AR-1 AGRICULTURAL-RESIDENTIAL)

LOT 143A MAP 12
 COMMON AREA - MEETINGHOUSE
 (SEE LIST OF OWNERS)
 ON SHEET 8 OF THIS SET
 (AR-1 AGRICULTURAL-RESIDENTIAL)

LOT 143C MAP 12
 PARRISH HILL CONDO ASSOCIATION
 c/o PATER REAL ESTATE
 82 WEST BROADWAY
 DERRY, NH 03038
 VOL. 4753 PG. 0861
 (AR-1 AGRICULTURAL-RESIDENTIAL)



PLAN REFERENCES:

- MASTER LOT LINE RELOCATION PLAN, LOTS 59-3 & 64, MAP 12, WHITTEMORE ESTATES, MAMMOTH ROAD, LONDONDERRY, NH 03053 PREPARED FOR/RECORD OWNER APPLE BLOSSOM ESTATES, LLC, ADDITIONAL OWNERS, JANET A. & MARTIN R. FLANDERS, AND DAVID A. BIENVENUE, DATED AUGUST, 2003 WITH REVISIONS THRU 3/08/04, SCALE 1" = 100', AND PREPARED BY THIS OFFICE. RECORDED: RCRD - PLAN No. D-31590
- CONDOMINIUM SITE PLAN, LOT 59-3, MAP 12, WHITTEMORE ESTATES, MAMMOTH ROAD, LONDONDERRY, NH 03053 PREPARED FOR: BUDROSE HOLDINGS, LLC, DATED: JANUARY 19, 2007 WITH REVISIONS THRU 2/08/07, SCALE 1" = 100', AND PREPARED BY CUOCO & COMMER ENGINEERING ASSOCIATES, INC. RECORDED: RCRD - PLAN No. D-34548

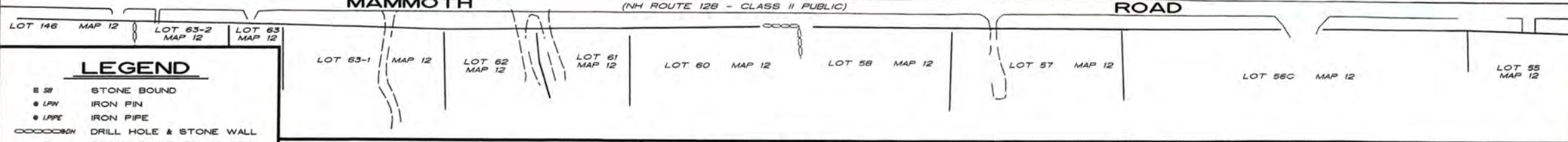
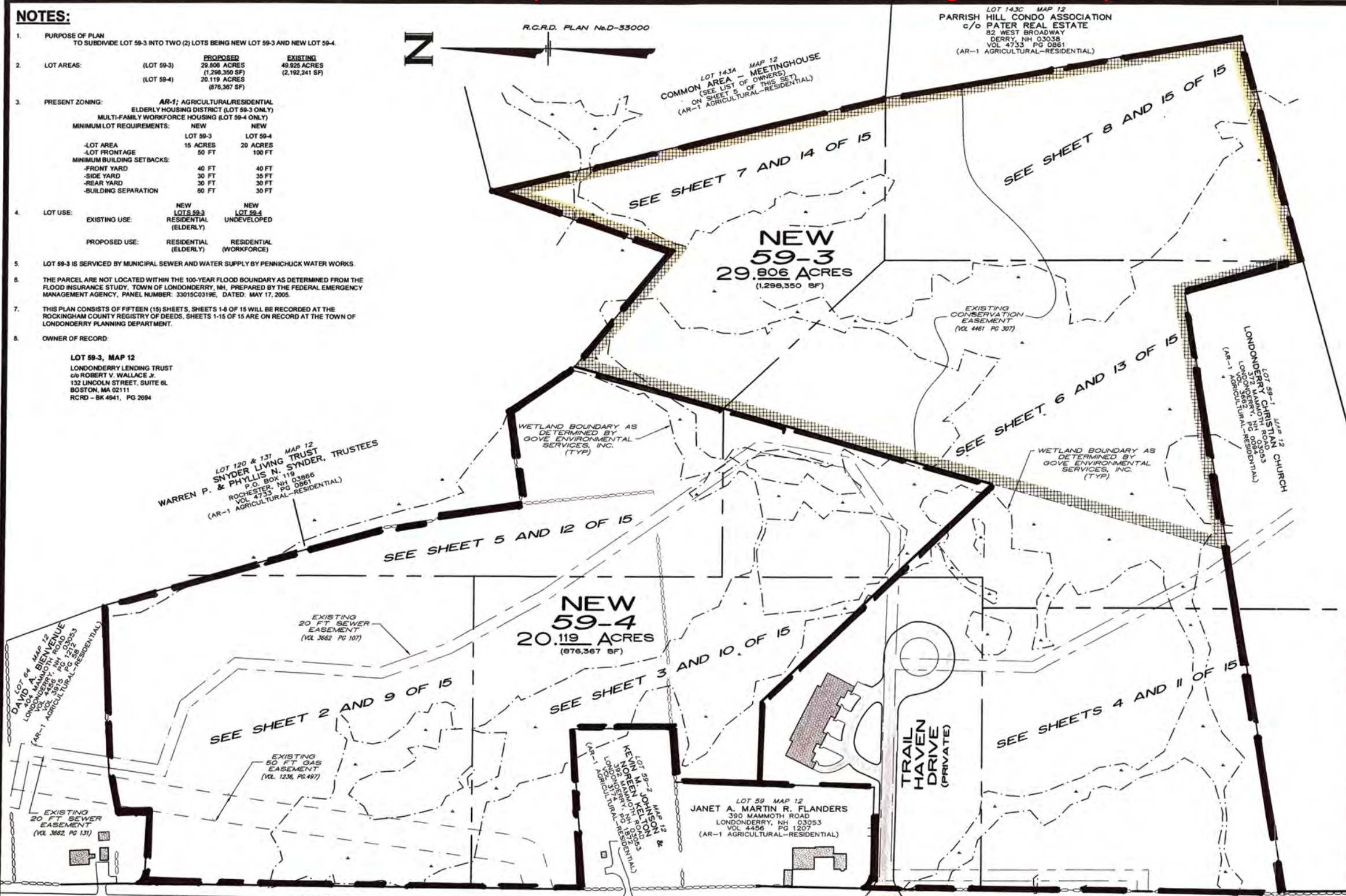
WAIVERS:

WAIVERS FROM THE FOLLOWING SECTIONS OF THE SUBDIVISION REGULATIONS WERE GRANTED BY THE LONDONDERRY PLANNING BOARD ON _____

- SECTION 3.08.8 DRAINAGE STUDY

ZONING NOTE
 THE ZONING/BUILDING SETBACKS DEPICTED ON THIS PLAN ARE THOSE WE HAVE INTERPRETED FROM THE LATEST ZONING ORDINANCE OF THE MUNICIPALITY AND, AS SUCH, ARE ONLY OPINIONS EXPRESSED BY HAYNER/SWANSON, INC. THE FINAL INTERPRETATION OF THE ORDINANCE CAN ONLY BE MADE BY THE APPROPRIATE ZONING AUTHORITY. SINCE BUILDING ORIENTATION, PROPOSED USES, AND OTHER FACTORS CAN AFFECT THE SETBACKS, PRIOR TO ANY DEVELOPMENT OF THIS PROPERTY, THE BUILDER/OWNER MUST CONSULT WITH THE TOWN/CITY TO INSURE THE CORRECT APPLICATION OF THE ZONING ORDINANCE.

INDEX	
1 OF 15	MASTER SUBDIVISION PLAN 1" = 100'
2-8 OF 15	SUBDIVISION PLANS 1" = 40'
9-15 OF 15	TOPOGRAPHIC SUBDIVISION PLANS 1" = 40'



LEGEND

—	STONE BOUND
•	IRON PIN
—	IRON PIPE
—	DRILL HOLE & STONE WALL
—	STONE BOUND TO BE SET
•	IRON PIN TO BE SET
—	WETLAND FLAGGING LIMIT
—	BUILDING SETBACK LINE

BENCHMARK
 No. 1
 STONE BOUND AT EAST SIDE OF
 MAMMOTH ROAD AND SOUTHWEST
 CORNER OF MAP 12, LOT 59
 ELEV. = 370.44
 (1929 NGVD DATUM)

THIS PLAN DEPICTS A SURVEY MADE ON THE GROUND UNDER MY DIRECTION AND SUPERVISION BETWEEN OCTOBER 2012 AND FEBRUARY 2013 IN ACCORDANCE WITH THE RULES AND REGULATIONS OF THE STATE OF NEW HAMPSHIRE AND THE CITY/TOWN WITHIN WHICH IT IS LOCATED. THE SURVEY WAS PERFORMED AS AN URBAN STANDARD PROPERTY SURVEY, AS DEFINED IN THE NH CODE OF ADMINISTRATIVE RULES, (CATEGORY I, CONDITION 1, N-HSA STANDARDS) WITH A TRAVERSE ERROR OF CLOSURE BETTER THAN 1 PART IN 15,000.



4/24/13

FOR LONDONDERRY LENDING TRUST _____ DATE _____

APPROVED BY THE LONDONDERRY, NH PLANNING BOARD ON: _____

CERTIFIED BY: _____

CHAIRMAN _____ DATE _____

SECRETARY _____ DATE _____

MASTER SUBDIVISION PLAN (MAP 12, LOT 59-3)
MAMMOTH ROAD
 LONDONDERRY, NEW HAMPSHIRE
 PREPARED FOR:
NEIGHBORWORKS SOUTHERN NEW HAMPSHIRE
 801 ELM STREET, P.O. BOX 3968 MANCHESTER, NEW HAMPSHIRE 03105
 RECORD OWNER:
LONDONDERRY LENDING TRUST
 c/o ROBERT V. WALLACE JR.
 132 LINCOLN STREET, SUITE 6L BOSTON, MASSACHUSETTS 02111
 SCALE: 1"=100 Feet
 1"=30.480 Meters
24 APRIL 2013

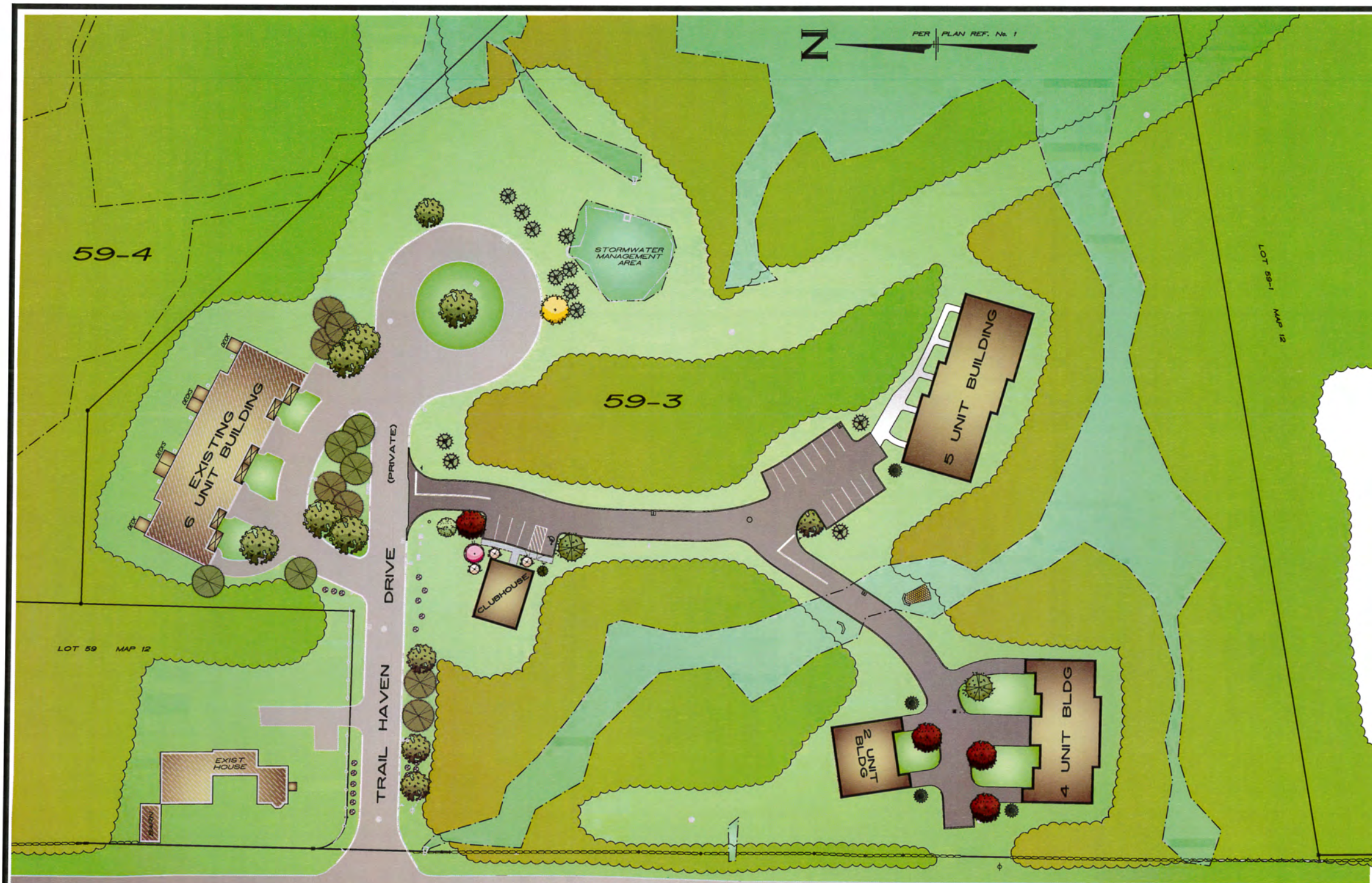
HSI Hayner/Swanson, Inc.
 Three Congress Street Nashua, New Hampshire 03062-3301
 Tel (603) 883-2037 www.haynerswanson.com Fax (603) 883-5037

FIELD BOOK: 1189	DRAWING NAME: 4669-SUB-FS61	4669-SUB-FS61	4669-SUB	1 OF 15
DRAWING LOCATION: G:\4669\DWG\4669-SUB	Drawing Title	File Number	Sheet	

Londonderry Conservation Commission Meeting Minutes - May 28, 2013 - Attachment #2



DATE	21 MAY 2013
PROJECT NO.	4669-SP
SHEET NO.	1 OF 1
PREPARED FOR: NEIGHBOR WORKS SOUTHERN NEW HAMPSHIRE ONE SHELLEY, P.O. BOX 3868 MANCHESTER, NEW HAMPSHIRE 03103 RECORDING: LONDONDERRY LENDING TRUST 1150 LINDEN STREET, SUITE #1 RIVINGTON, MASSACHUSETTS 02111	
DISPLAY PLAN LONDONDERRY TOWNHOMES MAMMOTH ROAD LONDONDERRY, NEW HAMPSHIRE	
HESI Haysler/Swanson, Inc. Civil Engineers/Architects/Interior Designers Three Congress Street, Nashua, New Hampshire 03073 Tel: 603.882.1100 Fax: 603.882.1107 www.hesinc.com	
SCALE	1" = 40'



DISPLAY PLAN
WHITTEMORE ESTATES
 CONDOMINIUMS
 MAMMOTH ROAD
 LONDONDERRY, NEW HAMPSHIRE
 PREPARED FOR:
NEIGHBORWORKS SOUTHERN NEW HAMPSHIRE
 801 ELM STREET, P.O. BOX 3968 MANCHESTER, NEW HAMPSHIRE 03105
 RECORD OWNER:
LONDONDERRY LENDING TRUST
 c/o ROBERT V. WALLACE JR.
 132 LINCOLN STREET, SUITE 6L BOSTON, MASSACHUSETTS 02111

SCALE: 1"=40 Feet
 1"=12.192 Meters

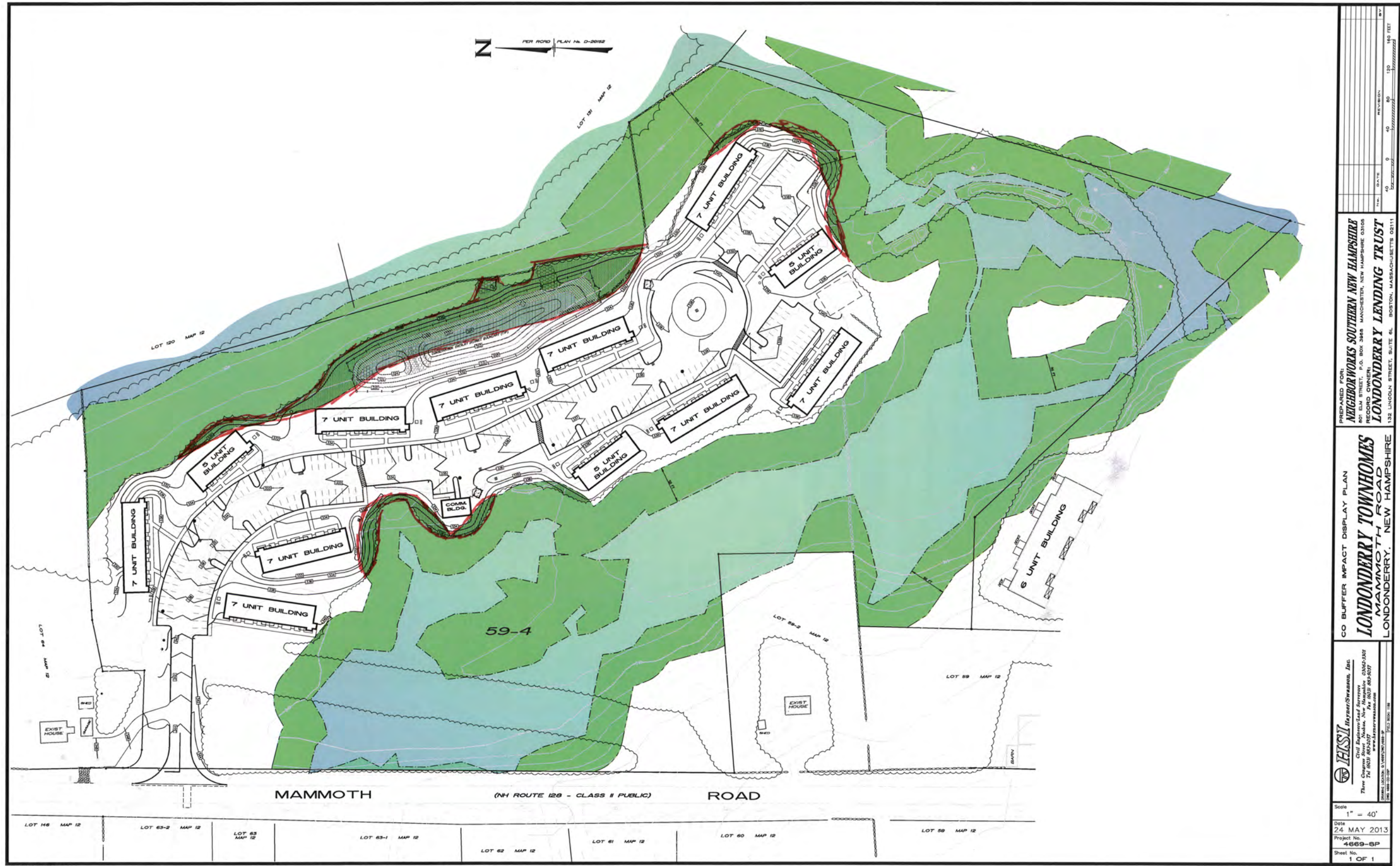
21 MAY 2013

HSI Hayner/Swanson, Inc.
 Three Congress Street Nashua, New Hampshire 03062-3301
 Tel (603) 883-2057 www.haynerswanson.com Fax (603) 883-5057

FIELD BOOK: 1099 DRAWING NAME: 4669-LS41DISP 4669-WE 1 OF 1
 DRAWING LOCATION: Q:\4669\DWG\4669-WE File Number 0001

BENCHMARK No. 1 STONE BOUND AT EAST SIDE OF MAMMOTH ROAD AND SOUTHWEST CORNER OF MAP 12, LOT 59 ELEV. = 370.44 (1929 NGVD DATUM)				
	No.	DATE	REVISION	BY

Londonderry Conservation Commission Meeting Minutes - May 28, 2013 - Attachment #4



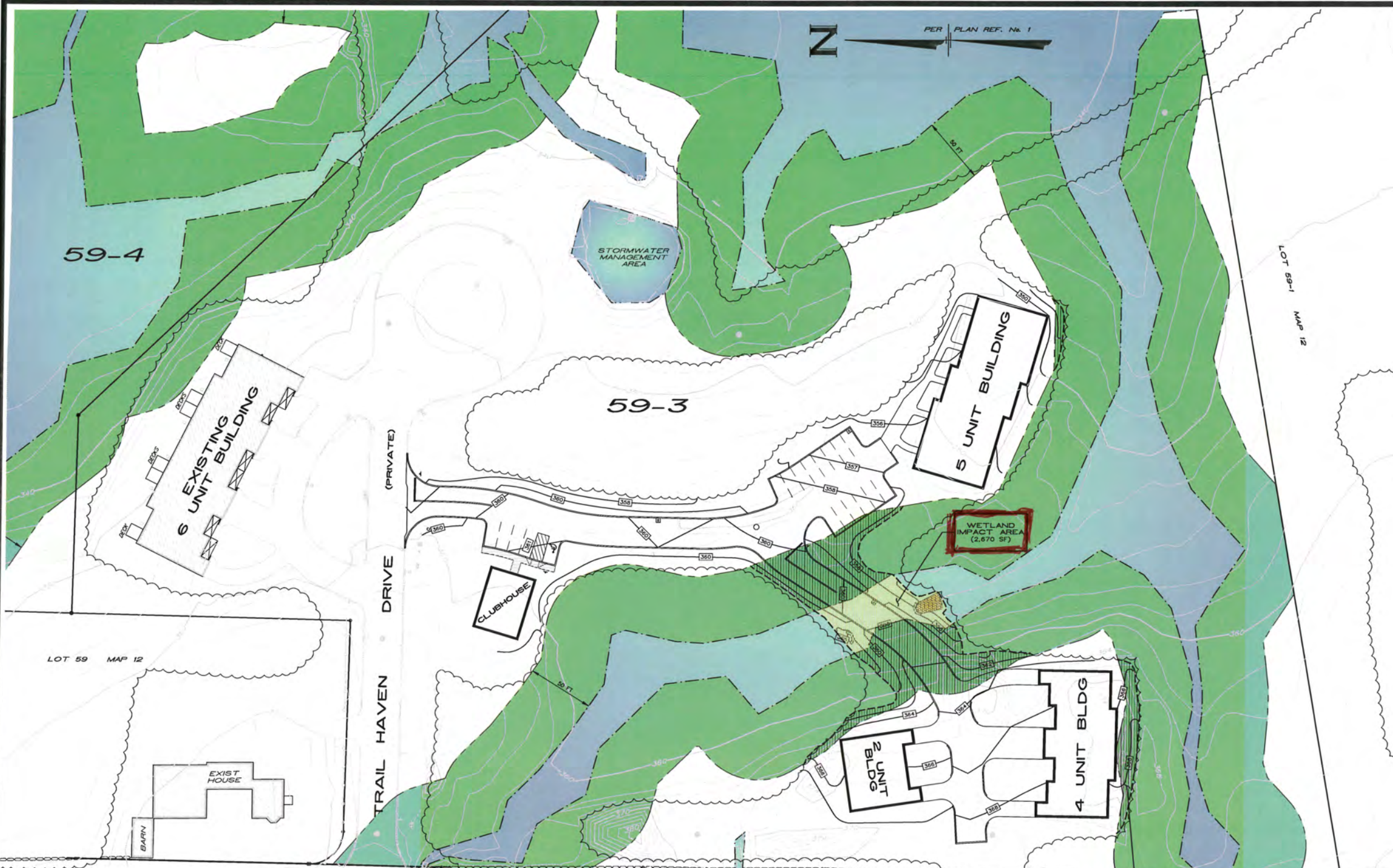
PREPARED FOR:
NEIGHBOR WORKS SOUTHERN NEW HAMPSHIRE
 801 ELM STREET, P.O. BOX 3848, MANCHESTER, NEW HAMPSHIRE 03105
 RECORD OWNER:
LONDONDERRY LENDING TRUST
 132 LINCOLN STREET, SUITE 6L, BOSTON, MASSACHUSETTS 02111

CO BUFFER IMPACT DISPLAY PLAN
LONDONDERRY TOWNHOMES
 MAMMOTH ROAD
 LONDONDERRY, NEW HAMPSHIRE

HESI *Haynes/Swanson, Inc.*
 Civil Engineers/Land Surveyors 0384-0301
 Three Chimes 863-2437
 www.hesicons.com
 1300 WASHINGTON STREET, SUITE 100, BOSTON, MA 02108

Scale: 1" = 40'
 Date: 24 MAY 2013
 Project No.: 4669-SP
 Sheet No.: 1 OF 1

1



WETLAND/CO BUFFER DISPLAY PLAN
WHITTEMORE ESTATES
 CONDOMINIUMS
 MAMMOTH ROAD
 LONDONDERRY, NEW HAMPSHIRE
 PREPARED FOR:
NEIGHBORWORKS SOUTHERN NEW HAMPSHIRE
 801 ELM STREET, P.O. BOX 3968 MANCHESTER, NEW HAMPSHIRE 03105
 RECORD OWNER:
LONDONDERRY LENDING TRUST
 c/o ROBERT V. WALLACE JR.
 132 LINCOLN STREET, SUITE 6L BOSTON, MASSACHUSETTS 02111

40 0 40 80 120 160 FEET
 20 0 20 40 METERS
 SCALE: 1"=40 Feet
 1"=12.192 Meters

21 MAY 2013

HSI Hayner/Swanson, Inc.
 Three Congress Street Nashua, New Hampshire 03062-3301
 Tel (603) 883-2057 www.haynerswanson.com Fax (603) 883-5057

FIELD BOOK: 1099 DRAWING NAME: 4669-CO-DSP: 4669-WE 1 OF 1
 DRAWING LOCATION: Q:\4669\DWG\4669-WE File Number Sheet

BENCHMARK
 No. 1
 STONE BOUND AT EAST SIDE OF
 MAMMOTH ROAD AND SOUTHWEST
 CORNER OF MAP 12, LOT 59
 ELEV. = 370.44
 (1929 NGVD DATUM)

No.	DATE	REVISION	BY

Municipal Pest Management Services, Inc.

19 Oak Terrace Kittery, Maine 03904

Website: www.swamp-inc.net

e-mail: swampfixer@myfairpoint.net

Londonderry Conservation Commission 2013 Invasive Plant Control Project Nesenkeag Headwaters Emergent Marsh *Phragmites australis*

The wetland is an emergent marsh dominated by native plants- cattail (*Typha latifolia*) and Bur- reed (*Sparganium* spp.) The site has several common invasive plants- *Phragmites australis* and Purple Loosestrife. (*Lythrum salicaria*). Beetles were recently released and appear to becoming established and controlling the Purple Loosestrife. However, *Phragmites australis* shows evidence of rapid expansion across the marsh surface. The colony is approximately two acres in size and has high stem density and height. The colony is shading out native plants and will likely dominate the entire marsh within ten years. There is a one to two foot deep area of dead biomass from previous years growth in the colony interior.

This project will include an initial herbicide application in late August/ early September 2013 followed by secondary applications to mid October 2013. The herbicide will control the entire plant including roots, stems and leaves. It is recommended that the dead biomass material following control be mowed to the substrate to allow sunlight penetration and allow regeneration of native plants in 2014. Mowing should be completed by hydraulic mowers capable of cutting the dead biomass into tiny pieces that can decompose rapidly.

The following costs are proposed:

- State Aquatic Herbicide Permit application- \$290.00
- Initial Rodeo Herbicide application- \$2,400.00
 - a. Hand sponge applications to outer perimeter stems
 - b. Hydraulic sprayer application to interior areas
- Secondary Herbicide applications- \$490.00
- Dead biomass mowing with low ground pressure tracked vehicle- \$990.00

#4170

Michael Morrison, President/ Entomologist
Municipal Pest Management Services, Inc.