

Construction damage prevention and Summery Adolf Bergs vei and Wiers Jensens vei

The area described consists of the triangular area between the parklike Stettemarken, Adolf Bergs vei and Wiers Jensens vei.

The close proximity of the majority of the trees to the proposed demolition presents an increased degree of complexity to their preservation.

At a minimum root protection areas constructed to prevent travel over the root areas as well as the typical minor pruning to lessen the chance of machines damaging the lower branches if needed.

Physical trunk protection would also be a recommendation as well as regular site visits to monitor any dust buildup on the leaves from the demolition as well as the provision to water the trees and wash of any considerable dust build up.

Summery.

The 52 Trees on the Nursing Home and accommodation grounds are a pretty general mixture of tree species common to Western Norway. They comprise of very young trees in the case of the Lønn trees T9-T11 (3 years old approx.) to mature Trees (T12, 100 plus years).

There are certainly some Trees that should have been felled quite some time ago as well as some quite sick or dying Trees that have no or limited years of contribution remaining.

A site visit to discuss the realities of preserving some of the more mature Trees before demolition commences is highly recommended.

Appendix 1: Tree Survey Schedule

Tree No on plan	Species	Ht (M)	Crown spread Est. (m)	Trunk Dia @ 1.5m (mm)	Age class	Estimated Remaining Contribution in years	Physiological and Structural condition. Observations- negative and positive	Management recommendations	Category of retention	RPA (Root Protection Area) M2
T1	Stone Pine	10	12	300	50	50	Good condition	Remove any major dead wood, inspect structure		
T2	Bjørk	7	3	150	10	30	Good conditon	• Fell as close to wall		
T3	Bjørk	3	3	150	10	30	Good Condition	• Reduce branches growing towards car park		
T4	Bjørk	4	4	250	20	30	Good Condition	• Crown lift		

T5	Bjørk	5	3	20	20	30	Good Condition -	<ul style="list-style-type: none">• Reduce back from car park			
T6	Lønn	5	5	30	20	50	Good Condition	<ul style="list-style-type: none">• Remove Basal growth			
T7	Selja	3	3	10	5	10	Growing towards parking area.	<ul style="list-style-type: none">• Fell			
T8	Jappanske Lønn	2	3	5	20	50	Good condition	Retain			
T9	Lønn	5	2	50	7	20	Machine damaged trees growing through fence	<ul style="list-style-type: none">• Fell			
T10	Lønn	5	3	60	7	20	As above	<ul style="list-style-type: none">• Fell			
T11	Lønn	5	2	60	7	20	As above	<ul style="list-style-type: none">• Fell			

T12	Lønn	20	20	1040	100	100	Lapsed pollard,good condition	<ul style="list-style-type: none"> • Retain • Crown lift • Inspect canopy 		
T13-T26	Lønn	5	4	80-200	40	40	A alle of heavily pollarded lønn.of uniform age and hight Tree 25 is dead	<ul style="list-style-type: none"> • Tree 25 fell and replant 		
T27	Bjørk	18	5	380	40	40	Double stemmed,weak union	<ul style="list-style-type: none"> • Fell 		
T28	Bjørk	20	5	240	40	40	Good condition	Retain		
T29	Bjørk	10	6	350	40	40	Good condition	<ul style="list-style-type: none"> • Retain 		
T30	Bjørk	17	3	200	40	5	Tree is in decline	<ul style="list-style-type: none"> • Fell 		
T31	Bjørk	19	7	270	40	100	Vigorous	<ul style="list-style-type: none"> • Retain 		
T32	Malice	4	3	70	40	40	Decent	Retain		

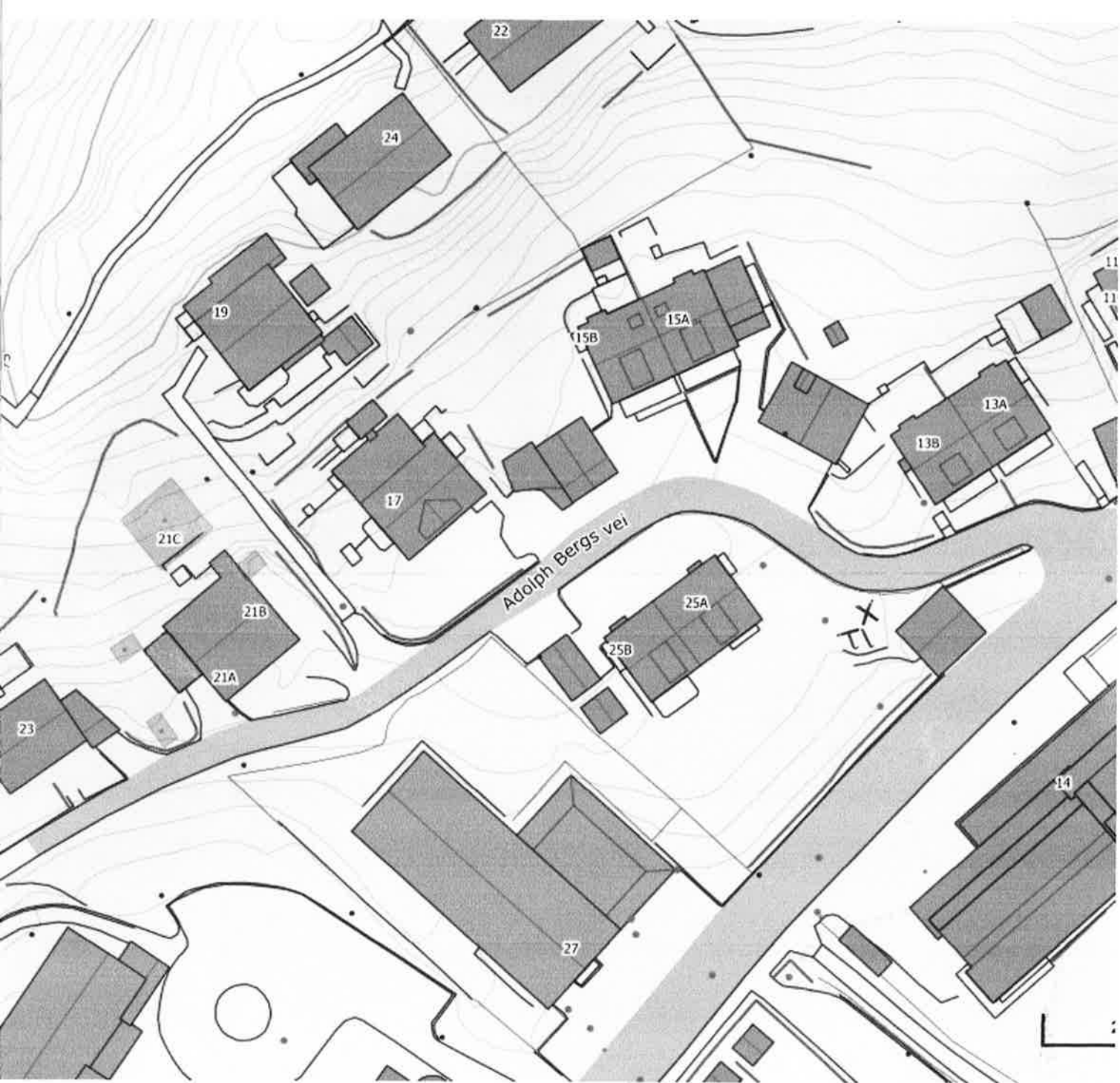
T33	Bjørk	10	6	130	40	40	Decent	<ul style="list-style-type: none"> Fell as too close to proposed building 		
T34	Bjørk	10	6	130	40	40	Decent	<ul style="list-style-type: none"> Fell as too close to proposed building 		
T35	Prunus	8	6	180	40	40	Stingle stem,broken top subordinated stem has assumed apical dominance Decent condition	<ul style="list-style-type: none"> retain 		
T36	Prunus	10	8	270	40	40	Double stem growing from same stump. Decent condition	retain		
T37	Prunus	15	14	610	110	40	Dead wood in crown, Phytophthora ramorum on stem ,previously pollarded	<ul style="list-style-type: none"> Remove dead wood,investigate the stem integrity. Retain 		
T38	Prunus	6	4	200	25	60	Good condition	<ul style="list-style-type: none"> Retain 		
T39	Lønn	10	6	240	30	30	Multistem,growing on fjellkant	<ul style="list-style-type: none"> Fell 		

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T40	Lønn	10	10-	200	30		Multistern, growing on old stump, probably basal shoot.	fell		
T41	Selja	10	-10	43	30		Decay in stem leaning towards buildings, poor soil conditions. Partly dead	• Fell		
T42	Thuja	4	2 -	200	30	20	Vigorous	• Fell as too close to proposed building to survive		
T43	Thuja	4	170	30	20		Vigorous	• Fell as too close to proposed buildings to survive		

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T44	Or	10	4	230	30	30	Vigorous	<ul style="list-style-type: none">FellTo close to building to survive construction			
T45	Hyllebær	6	8	120	20	20	Vigorous	<ul style="list-style-type: none">FellTo close to the building to survive construction			
T46	Thuja Klinge	5	3	130	20	20	Vigorous	<ul style="list-style-type: none">Retain			
T47	Bjørk	20	6	310	30	30	Good condition,in conflict with power line	Fell			
T48	Bøk	25	18	1200	100	100	Good health and vigor,recommended to remove any deadwood and inspect the canopy	<ul style="list-style-type: none">Retain			
T49	Bjørk	8	3	140	20	20	Decent vigor,suppressed by the Bøk above it.	<ul style="list-style-type: none">Retain			
T50	Thuja	6	3.5	120	30	30	Decent vigor	<ul style="list-style-type: none">Retain			

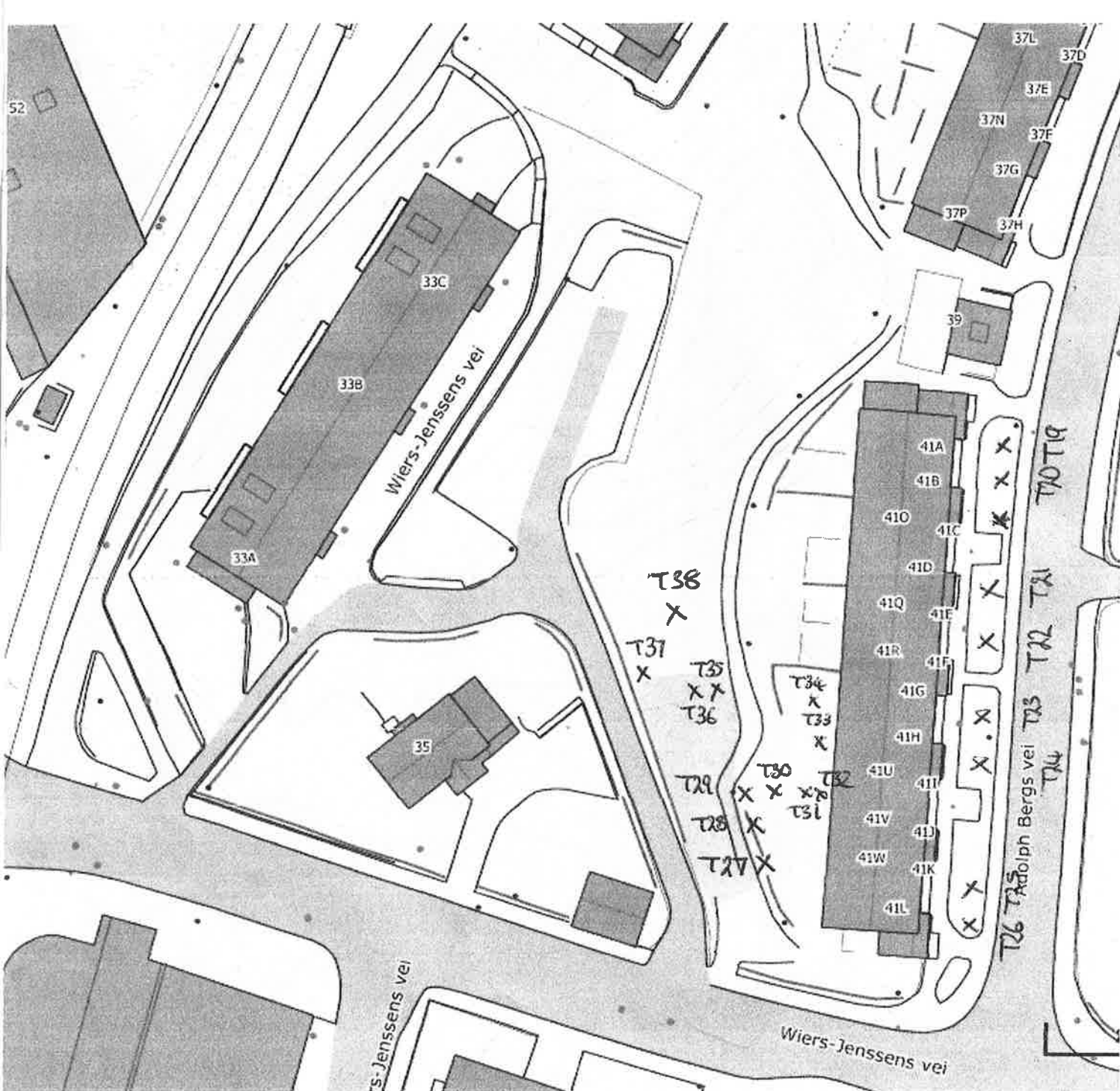
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Construction damage prevention and summery Slettemarken.

This report is regarding the 32 Tree's found in the indicated area on the park like space known as Slettemarken, as well as those trees contained in the garden of the Nursing home itself. Trees 11 -19.

The construction damage prevention measures should include fencing to prevent travel over the root area's of the trees as well as some minor pruning of lower branches of some of the trees along the path's that may be used as temporary roads or access points by machinery.

Identification of Trees at the most risk of construction damage should be undertaken on a regular basis as the demolition and subsequent construction is undertaken.

The exact requirements of the protection measures will in some way be unique to the method of demolition used on the structure of the Nursing Home as well as the weather conditions experienced during the duration of said demolition as well as time of year.

The following measures are recommended.

Physical barrier type protection around root area

Physical impact protection of the trunk

Potential waters of the Trees

Potential washing of the dust from the Tree leaves

Summary :

The 32 Trees on Slettemarken itself represent nothing extraordinary themselves. They are a mixture of young (sub 10 year) to mature (100 year plus) common tree varieties. As well as a small wooded area consisting of over grown regeneration (Kratt).

The general health of the Trees are quite good with some exceptions that should have been removed quite some time ago.

The Trees by and large have not enjoyed regular maintenance which can be explained but the poor state of some of these trees. As well as the fact that some of these could be described as a Hazard by their poor state and ability to fall onto or near pathways.

I would like to see every effort made to preserve the more mature Trees as well as a few that exhibit quite nice and uncommon growth forms should that be a realistic endeavor.

Appendix 1: Tree Survey Schedule

Tree No on plan	Species	Ht (M)	Trunk Dia @ 1.5m (mm)	Age class	Physiological and Structural condition. Observations- negative and positive	Management recommendations	Vigour
T1	Lønn	7	299	MA	P- Multistemmed, poor growing location, close to path	Fell	
T2	Svartor	7	464	MA	Evidence of stem decay, abundance of epicormic growth hindering inspection	<ul style="list-style-type: none"> Retain 	P
T3	Svartor	6	381		Hollow Base, stem decay	<ul style="list-style-type: none"> Fell 	
T4	Bjørk	12	455	MA	Stem damage, decay evident in basal area	<ul style="list-style-type: none"> Fell 	
T5	Rogn	8	528	OM	Significant decay, stem hollow, leaning close to path	<ul style="list-style-type: none"> Fell 	
T6	Lønn	20	1133	MA	Decent form, twin stemmed, decent growth form, crown lift recommended, candidate for cable bracing.	<ul style="list-style-type: none"> Retain 	Fair

T7	Svartor	8	337	MA	Slight bark damage	•	Fair
T8	Selja	6	187	Y	Multistemmed tree.Sign's of being grown from an old stump or previously buried material.	• Fell	
T9	Svartor	4	194	Y	Dead top	• Remove dead top,the removal of the willow adjacent would help significantly.	Fair
T10	Svartor	7	350	MA	Stem completely rotten,generally poor vigor	• Fell	
T11	Bjørk	15	222	MA		• Retain	P
T12	Bjørk	15	206	Y		• Retain	P
T13	Bjørk	10	149	MA		• Retain	P

T14	Bjørk	15	159	MA		<ul style="list-style-type: none"> Retain 	P
T15	Bjørk	10	168	Y		<ul style="list-style-type: none"> Retain 	P
T16	Bjørk	8	143	Y	Considerable bark missing from one stem, leaning towards carpark/path	<ul style="list-style-type: none"> Fell 	
T17	Hengebjørk	20	280	MA		<ul style="list-style-type: none"> Retain 	P
T18	Rogn	6	136	Y	Growing on rock, recommend crown reduction at a later stage	<ul style="list-style-type: none"> Retain 	P
T19	Selja	6	73	Y		<ul style="list-style-type: none"> Retain 	P
T20	Bøk	15	197	MA		<ul style="list-style-type: none"> Retain 	P

T21	Malice		127			P- S-	•		
T22	Bjørk	12	187	Y		Lacking vigor	• Retain		Fair
T23	Svartor	15	569	MA			• Retain		P
T24	Rogn	6	92	Y			• Retain		P
T25	Bjørk	15	238	MA		Exposed Roots, growing on Rock	• Fell		
T26	Diverse	2- 15		Y MA		Klinge of tight grown trees of various ages. Signs suggest grown from old stumps in the case of the selja. recommend removing the trees withing falling distance of the footpath	•		P
T27	Bjørk langs veien	12	267	MA			• Retain		P

T28	Bjørk	8	280	MA		• Retain		P
T29	Bjørk	15	248	MA		• Retain		P
T30	Bjørk	15	210	MA		• Retain		P
T31	Bjørk	15	327	MA		• Retain		P
T32	Bjørk	8	292	MA		• Retain		P
					P- S-	•		

