

Table 1. Tree Inventory									
Location: 4336 Willick Rd, Niagara Falls			Date: 19 March 2025		Surveyors: JJJ				
Tree #	Common Name	Scientific Name	DBH	TI	CS	CV	DL	mTPZ	Location
1	Pn Oak	Quercus palustris	~28	G	G	G	3	2.4	Neighbouring - Private
2	Blue Spruce	Picea pungens	~10	G	G	G	1	2.4	Neighbouring - Private
3	Blue Spruce	Picea pungens	~11	G	G	G	1	2.4	Neighbouring - Private
4	Blue Spruce	Picea pungens	~15	G	G	G	2	2.4	Neighbouring - Private
5	Blue Spruce	Picea pungens	~11	G	G	G	2	2.4	Neighbouring - Private
6	Blue Spruce	Picea pungens	~14	G	G	G	2	2.4	Neighbouring - Private
7	Blue Spruce	Picea pungens	~12	G	G	G	1.5	2.4	Neighbouring - Private
8	Blue Spruce	Picea pungens	~15	G	G	G	1.5	2.4	Neighbouring - Private
9	Blue Spruce	Picea pungens	~10	G	G	G	1	2.4	Neighbouring - Private
10	Blue Spruce	Picea pungens	~10	G	G	G	1	2.4	Neighbouring - Private
11	Blue Spruce	Picea pungens	~17	G	G	G	1.5	2.4	Neighbouring - Private
12	Blue Spruce	Picea pungens	~11	G	G	G	1	2.4	Boundary - Private
13	Blue Spruce	Picea pungens	~12	G	G	G	1	2.4	Boundary - Private
14	Blue Spruce	Picea pungens	~10	G	G	G	1	2.4	Boundary - Private
15	Blue Spruce	Picea pungens	~10	G	G	G	1	2.4	Boundary - Private
16	Blue Spruce	Picea pungens	~12	G	G	G	1	2.4	Boundary - Private
17	Blue Spruce	Picea pungens	~14	G	G	G	1	2.4	Boundary - Private
18	Balsam Fir	Abies balsamea	~20	G	G	G	2	2.4	Boundary - Private
19	Balsam Fir	Abies balsamea	~15	G	G	G	1	2.4	Boundary - Private
20	Balsam Fir	Abies balsamea	~14	G	G	G	1.5	2.4	Boundary - Private
21	Balsam Fir	Abies balsamea	~17	G	G	G	2	2.4	Neighbouring - Private
22	Balsam Fir	Abies balsamea	~13	G	G	G	1.5	2.4	Neighbouring - Private
23	Pn Oak	Quercus palustris	31	G	G	G	4	2.4	Subject Property
24	Balsam Fir	Abies balsamea	~17	G	G	G	2	2.4	Neighbouring - Private
25	Balsam Fir	Abies balsamea	~19	G	G	G	2	2.4	Neighbouring - Private
26	Pn Oak	Quercus palustris	21	G	G	G	3	2.4	Subject Property
27	Pn Oak	Quercus palustris	45	G	G	G	5	3.0	Subject Property
28	Swamp White Oak	Quercus bicolor	14	G	G	G	3	2.4	Boundary - Private / ROW
29	Swamp White Oak	Quercus bicolor	23	G	G	G	3	2.4	Subject Property
30	Pn Oak	Quercus palustris	17	G	G	G	3	2.4	Subject Property
31	Pn Oak	Quercus palustris	28	G	G	G	6	2.4	Subject Property
32	Swamp White Oak	Quercus bicolor	65	G	G	G	6	4.2	City ROW
33	Pn Oak	Quercus palustris	22	G	F	F	2	2.4	Subject Property
34	Basswood	Tilia americana	29	G	G	G	4	2.4	Subject Property
35	Pn Oak	Quercus palustris	59	G	F	FG	4	3.6	Boundary - Private / ROW
36	Pn Oak	Quercus palustris	52	G	G	G	4	3.6	Subject Property
37	Pn Oak	Quercus palustris	38	G	F	F	4	2.4	Boundary - Private / ROW
38	Shagbark Hickory	Carya ovata	24	G	G	G	3	2.4	Subject Property
39	Shagbark Hickory	Carya ovata	12	G	FG	G	2	2.4	Boundary - Private / ROW
40	Pn Oak	Quercus palustris	24	G	G	G	3	2.4	Subject Property

LEGEND			
●	GPS Tree Location		
10	Tree Number Identified for Preservation (GREEN)		
15	Tree Number Identified for Removal (Red)		
TPZ	Tree Preservation Zone Symbol		
mTPZ	Minimum Tree Protection Zone (mTPZ)		
	Tree Protection Fence Location		
	Property Boundary		
No.	Description	Date	By
1	Issued for Distribution	21 Mar, 2025	JJJ
Data Source: Upper Canada Consultants			

Tree Inventory	
A site visit was conducted on the 19 th of March 2025 by ISA Certified Arborist Jeremy Jackson (ON-1089A) to complete the tree inventory. All trees 10 cm in diameter and larger situated on subject property, on neighbouring property within 6 m and within the road allowance were included in the inventory. A visual assessment was completed on each tree included in the inventory and the following information is provided in the tree inventory table (Table 1):	
<ul style="list-style-type: none">• Tree #: A number assigned to each tree corresponding to the tree inventory and the Tree Preservation Plan (Sheet 1).• Species: Common and scientific (Latin) species names.• DBH: The trunk diameter at breast height, measured in centimeters at 1.4 m from the ground.• Condition: The health of the tree considering the trunk integrity, the crown structure and the crown vigour; each rated as poor, fair or good. The condition ratings are based on the signs, symptoms and defects exhibited by each tree, considering the conditions in which it is growing.• Drip-line: The distance from the trunk to the tips of the live branches.• mTPZ: Minimum Tree Preservation Zone distance, measured in meters from the trunk of the tree.• Location: The property where the tree is situated, based on the topographic survey.• Comments: Any additional notes relevant to the tree's health or growing conditions.• Recommendation: The recommended removal or preservation of each tree based on the impact assessment.	

Tree Preservation	
The preservation of Trees 1-22, 24, 25, 34-37, 39, 40, 43, 48, 49, 53, 55, 56, 58, 61-64, 67-70, 72 and 73 will be possible with the use of appropriate tree protection measures. Tree protection measures must be implemented prior to the commencement of construction to ensure that the trees are not damaged. Tree protection fence must be installed at the mTPZ distances as outlined on this drawing and on Table 1.	
Tree Removal	
The removal of Trees 23, 26-33, 38, 41, 42, 44-47, 50-52, 54, 57, 59, 60, 65, 66 and 71 will be required to accommodate the proposed development.	
Trees 28, 32, 39, 60, and 71 appear to reside partially or fully within the City owned road allowance. Permission from the appropriate City department will be required prior to removal.	

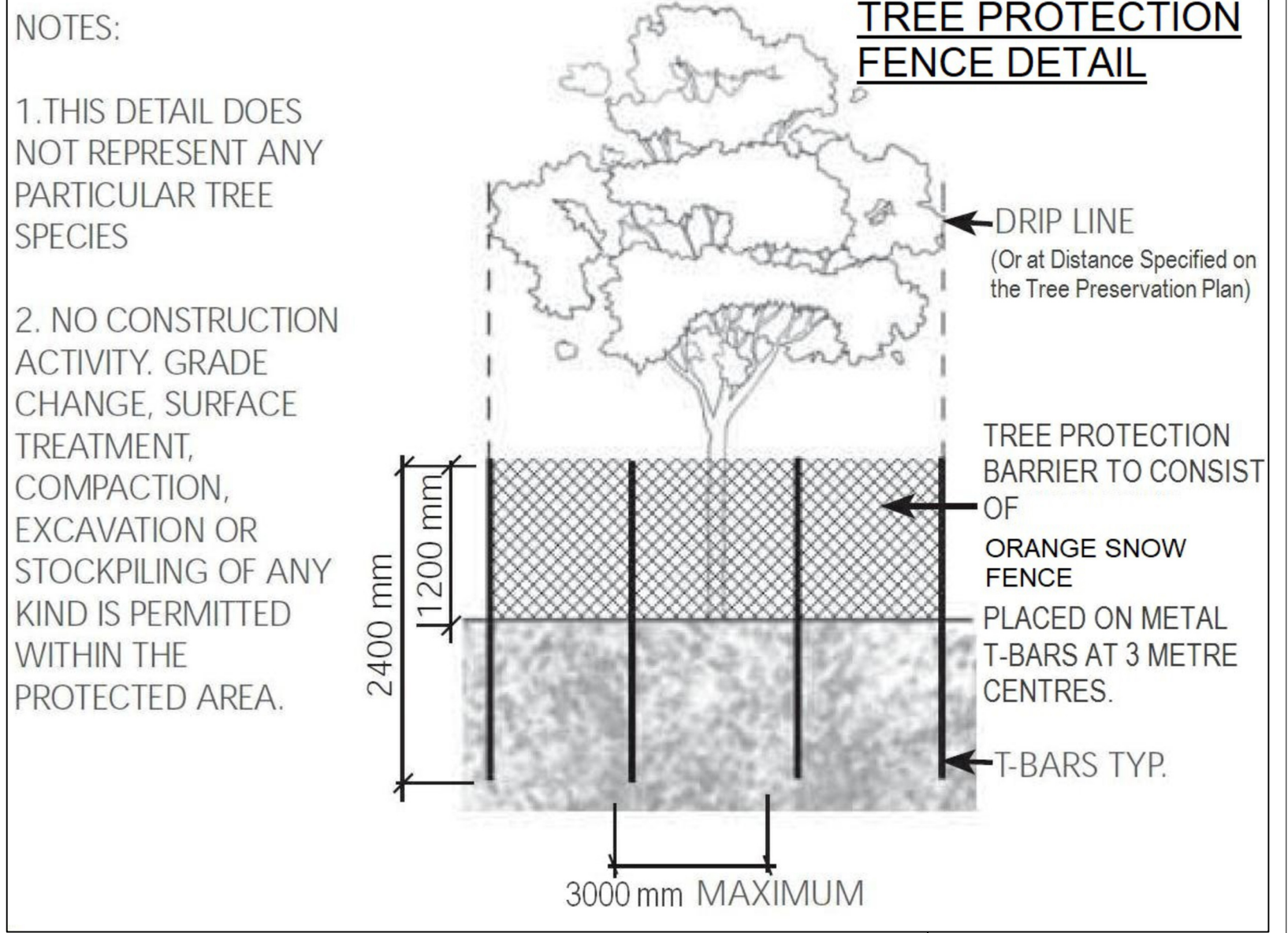
Tree Protection Recommendations	
The following recommendations are made in attempts to reduce the impacts to trees identified for preservation:	
<ul style="list-style-type: none">• Tree protection fence must be installed at the mTPZ distance prior to the commencement of construction (pre-grading), unless noted otherwise on this drawing.• Once tree protection fence has been installed it must not be moved, relocated or altered in any way (unless repairing fallen fence etc.) for the duration of the construction period.• No intrusion into an area identified on Sheet 1 as a tree preservation zone (TPZ) is allowed at anytime during construction unless noted otherwise on this drawing.• No storage of machinery, construction debris, materials, waste or any other items is allowed within a TPZ.• Any tree branches and roots that conflict with the proposed development must be pruned by a Certified Arborist in accordance with good arboricultural practice.• Tree protection fencing should be inspected by a Certified Arborist prior to and during construction to ensure that the fencing remains intact and in good repair throughout the stages of development.	

Tree #	Common Name	Scientific Name	DBH	TI	CS	CV	DL	mTPZ	Location	Comments	Action
41	Pn Oak	Quercus palustris	27	G	G	G	3	2.4	Subject Property		Remove
42	Pn Oak	Quercus palustris	25	G	G	G	4	2.4	Subject Property		Preserve
43	Pn Oak	Quercus palustris	14	G	G	G	3	2.4	Subject Property		Remove
44	Pn Oak	Quercus palustris	23	G	G	G	3	2.4	Subject Property		Remove
45	Pn Oak	Quercus palustris	32	G	G	FG	4	2.4	Subject Property		Remove
46	Pn Oak	Quercus palustris	16	G	F	F	2	2.4	Subject Property	20% crown dieback	Remove
47	Pn Oak	Quercus palustris	56	G	FG	FG	5	3.6	City ROW		Preserve
48	Pn Oak	Quercus palustris	27	G	G	G	3	2.4	Subject Property		Preserve
49	Pn Oak	Quercus palustris	29	G	G	G	4	2.4	Subject Property		Remove
50	Pn Oak	Quercus palustris	23	G	G	G	3	2.4	Subject Property		Remove
51	Shagbark Hickory	Carya ovata	17	G	G	G	3	2.4	Subject Property		Remove
52	Pn Oak	Quercus palustris	41	G	G	G	5	3.0	Subject Property		Preserve
53	Pn Oak	Quercus palustris	33	G	G	G	5	2.4	Subject Property		Preserve
54	White Elm	Ulmus americana	16	G	G	G	3	2.4	Boundary - Private / ROW		Preserve
55	Shagbark Hickory	Carya ovata	10, 10	FG	G	G	2	2.4	Boundary - Private / ROW	Union at ground	Preserve
56	Pn Oak	Quercus palustris	24	G	G	G	4	2.4	Subject Property		Remove
57	Pn Oak	Quercus palustris	29	G	G	G	5	2.4	City ROW		Preserve
58	Pn Oak	Quercus palustris	14	G	G	G	3	2.4	City ROW		Remove
59	Pn Oak	Quercus palustris	26, 23	F	F	F	7	2.4	City ROW	Union at 1.2 m, bow ed south,	Remove
60	Siberian Elm	Ulmus pumila	~25	G	F	G	3	2.4	Subject Property		Preserve
61	Eastern Red Cedar	Juniperus virginiana	22, 20	FG	G	G	4	2.4	Subject Property	Union at 0.3 m	Preserve
62	White Elm	Ulmus americana	11	F	F	F	2	2.4	City ROW	Peeling bark, epicormic branching, EAB infestation	Preserve
63	Green Ash	Fraxinus pennsylvanica	10	F	F	F	2	2.4	City ROW	Peeling bark, epicormic branching, EAB infestation	Preserve
64	Green Ash	Fraxinus pennsylvanica	10	F	F	F	2	2.4	Subject Property	Peeling bark, epicormic branching, EAB infestation	Remove
65	Green Ash	Fraxinus pennsylvanica	14, 17	FF	F	F	3	2.4	City ROW	Union at ground, peeling bark, epicormic branching, EAB infestation	Remove
66	Green Ash	Fraxinus pennsylvanica	14, 16, 15, 11	FG	FG	G	4	2.4	City ROW	Union at ground	Preserve
67	White Elm	Ulmus americana	18, 8	FG	G	G	4	2.4	City ROW	Union at ground	Preserve
68	White Elm	Ulmus americana	16, 16, 9	F	FG	G	4	2.4	City ROW	Union at ground	Preserve
69	White Elm	Ulmus americana	23, 22	FG	G	G	3	2.4	Boundary - Private / ROW	Union at ground	Preserve
70	White Elm	Ulmus americana	37	G	FG	FG	5	2.4	City ROW	Epicormic branching	Remove
71	Pn Oak	Quercus palustris	~31	G	G	G	3	2.4	Subject Property		Preserve
72	White Spruce	Picea glauca	92	F	FG	G	7	6.0	Subject Property	Cavities at flare with heart rot, lean southwest, cavity in crown n, seam	Preserve
73	Red Oak	Quercus rubra									

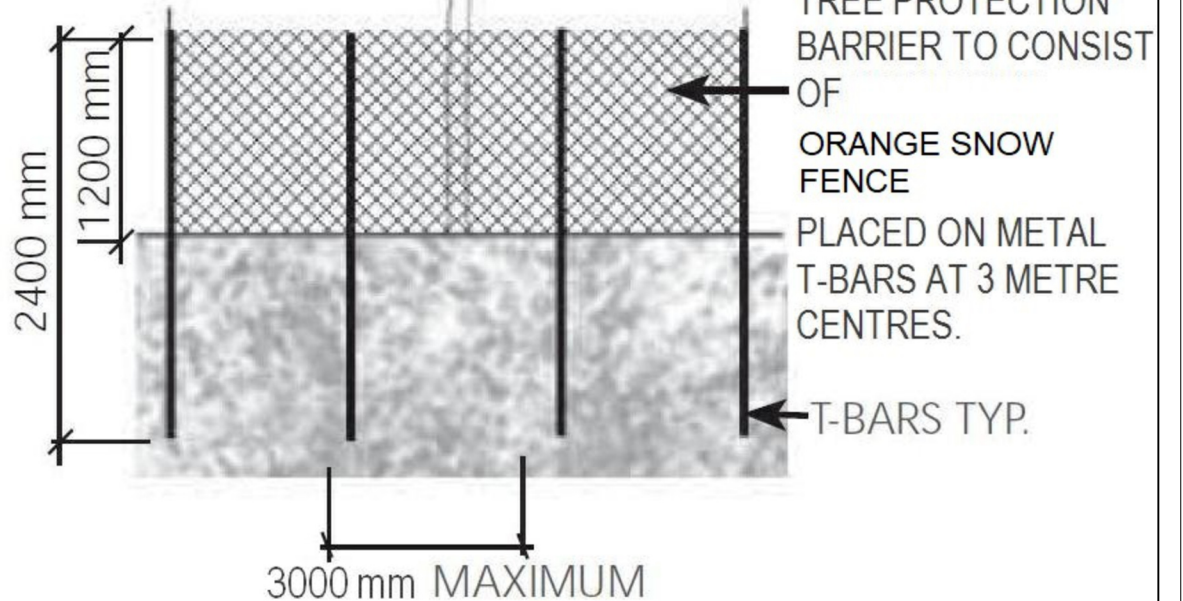
Legend	
DBH	Diameter at Breast Height (cm)
TI	Trunk Integrity (G, F, P)
CS	Crown Structure (G, F, P)
CV	Crown Vigor (G, F, P)
DL	Drip-line (m)
mTPZ	Minimum Tree Preservation (m)
S	Suppressed
G	Good
F	Fair
P	Poor
EAB	emerald ash borer
~	Estimate

Table 2. Minimum tree preservation zone distances.	
DBH (cm)	Min. Tree Preservation Zone Distance (m)*
	Radius
< 10	1.8
11 – 40	2.4
41 – 50	3
51 – 60	3.6
61 – 70	4.2
71 – 80	4.8
81 – 90	5.4
91 – 100	6
101 – 110	6.6

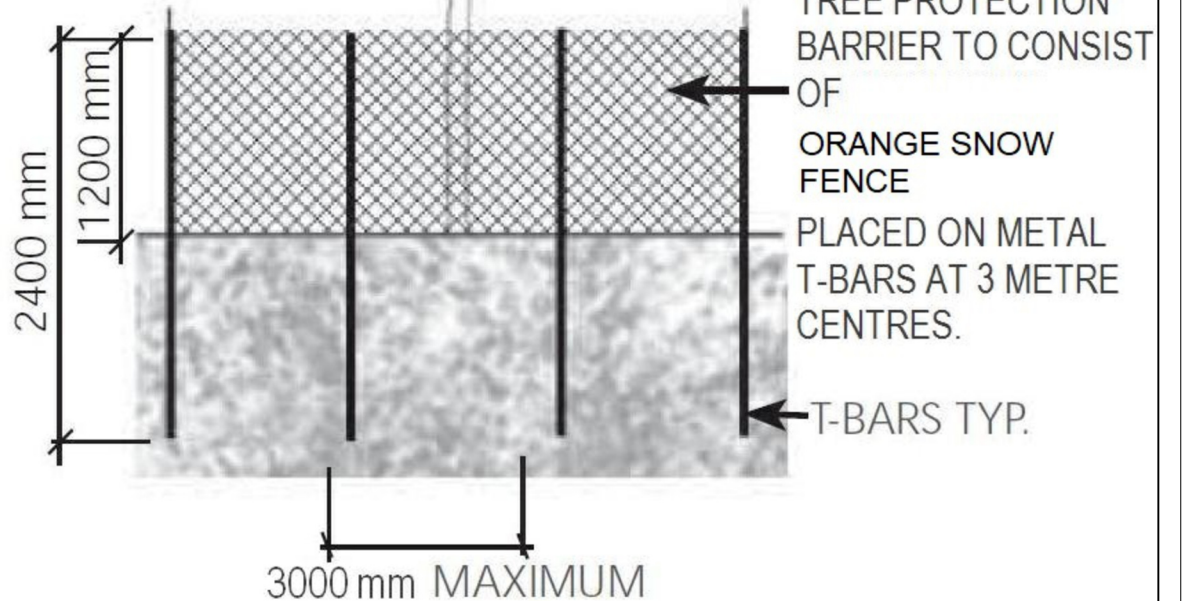
*As measured from the outside of the tree trunk.



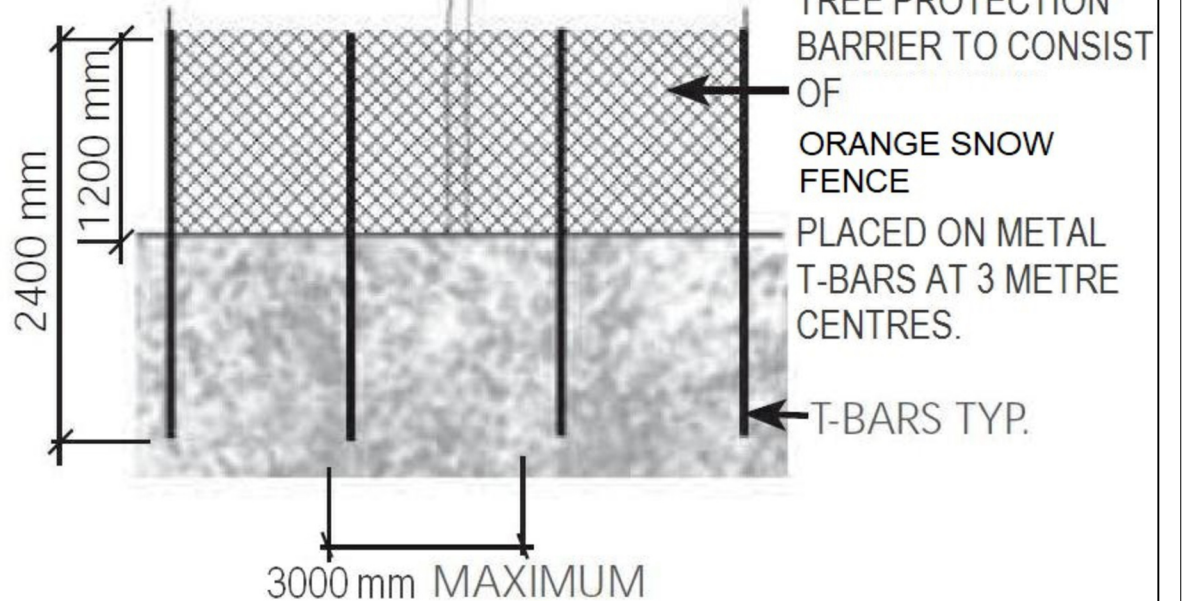
TREE PROTECTION FENCE DETAIL



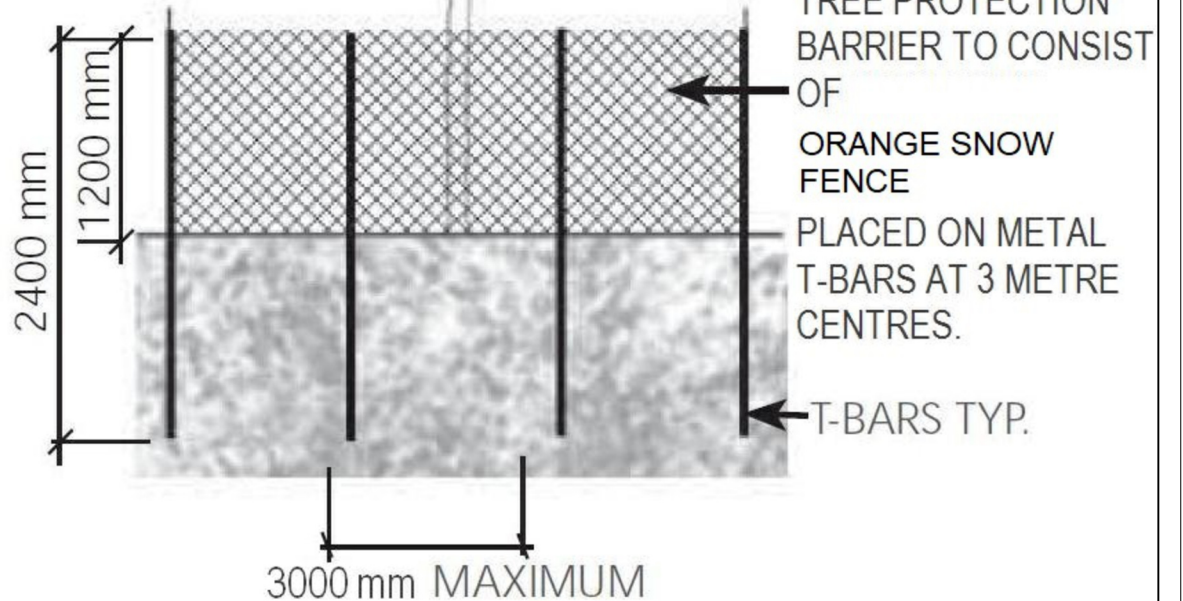
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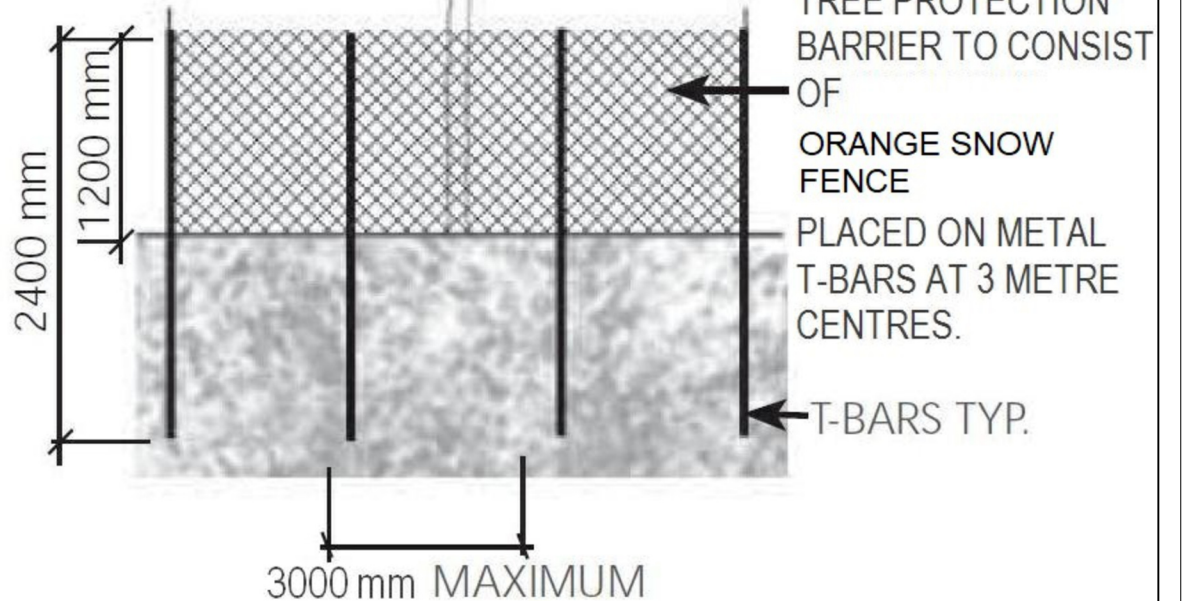
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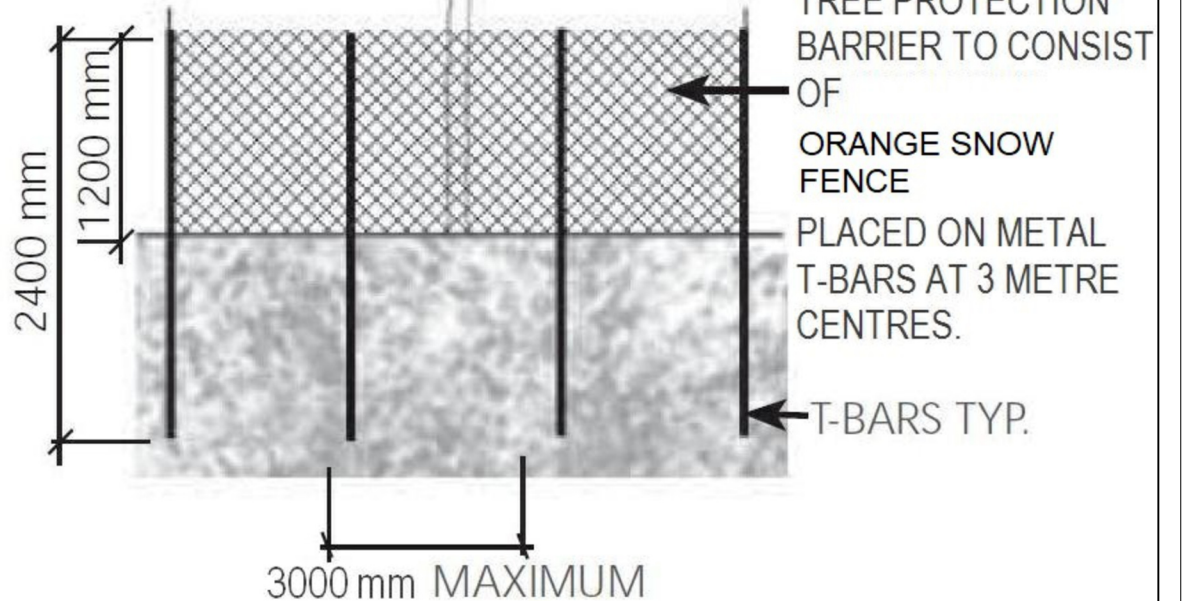
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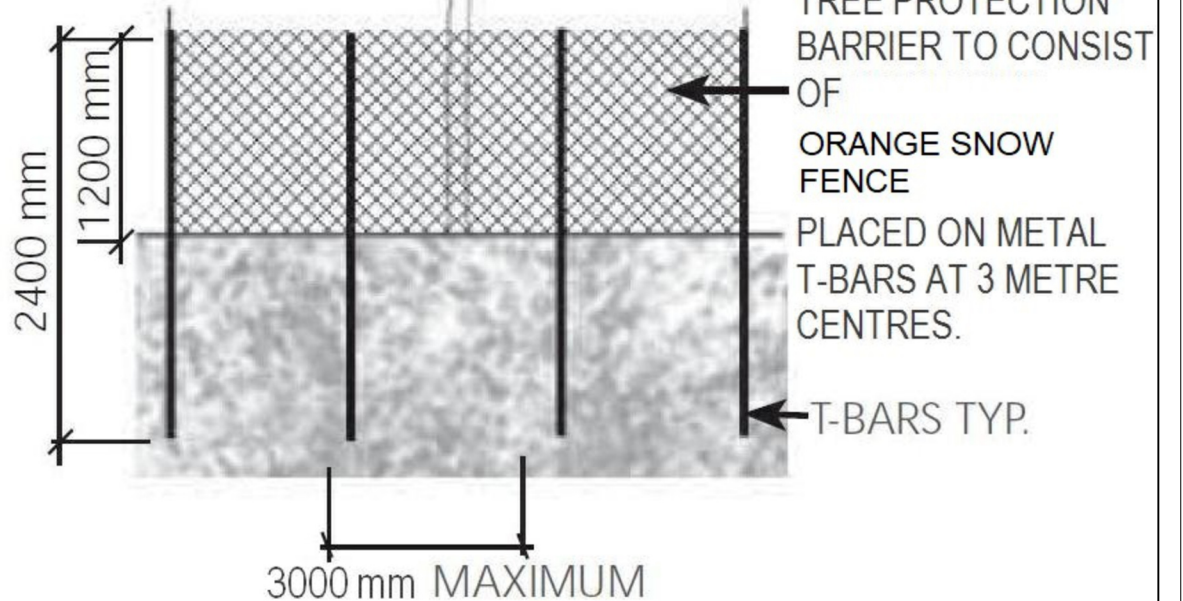
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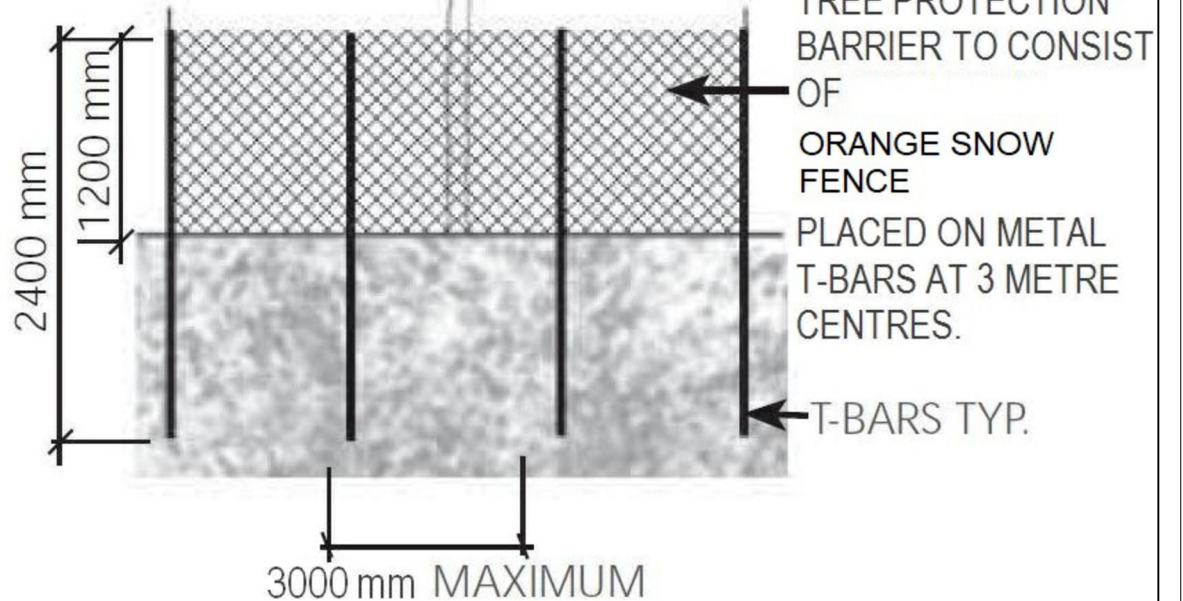
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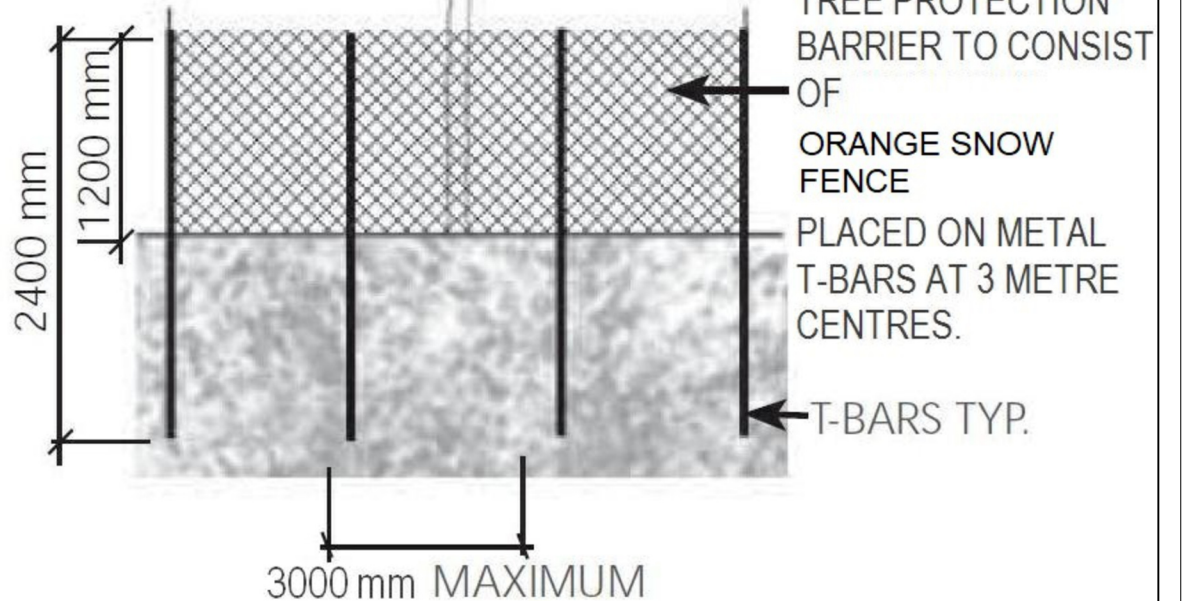
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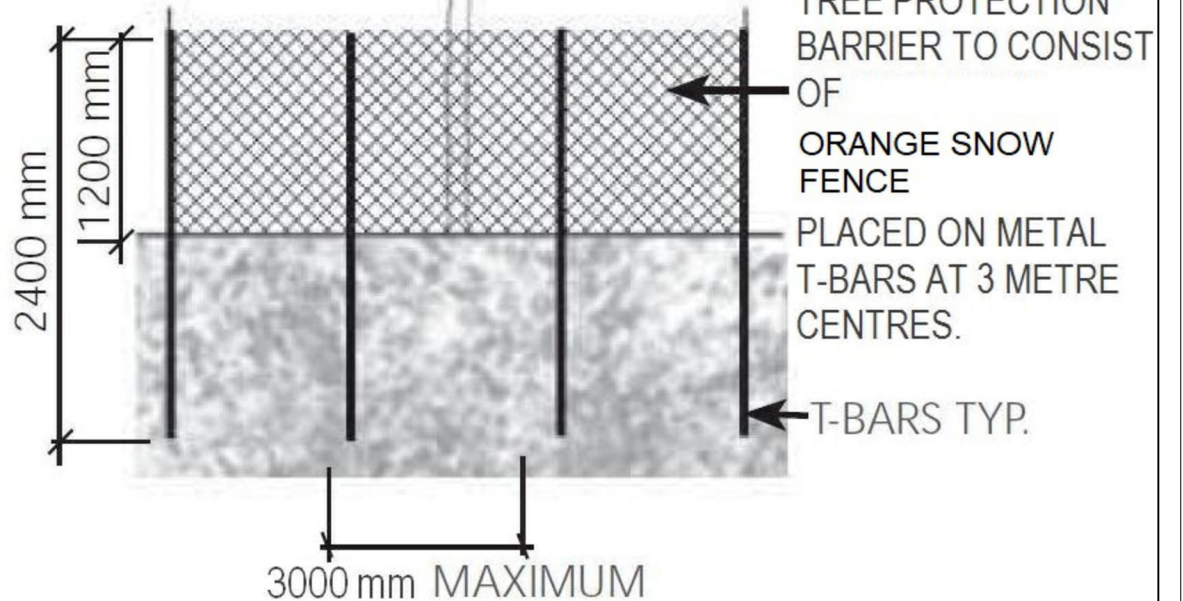
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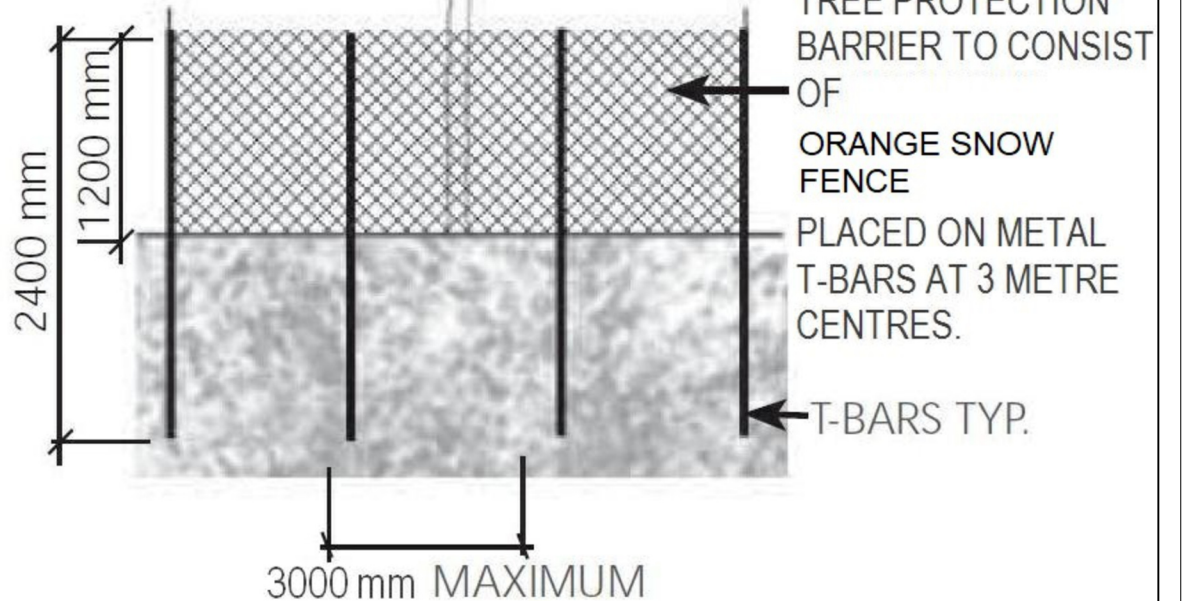
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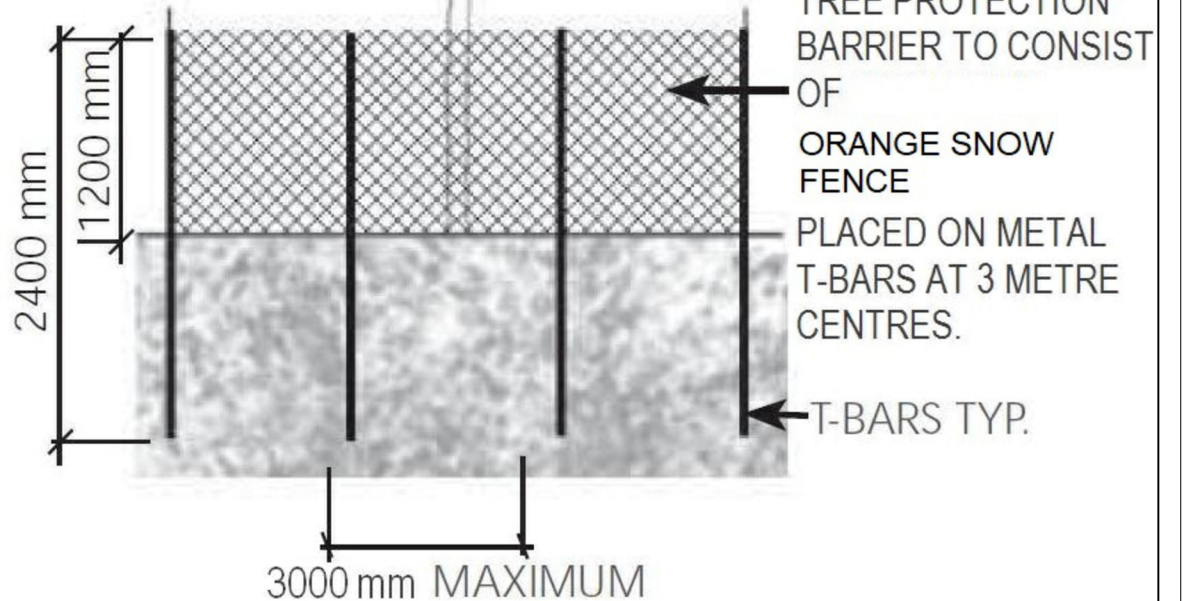
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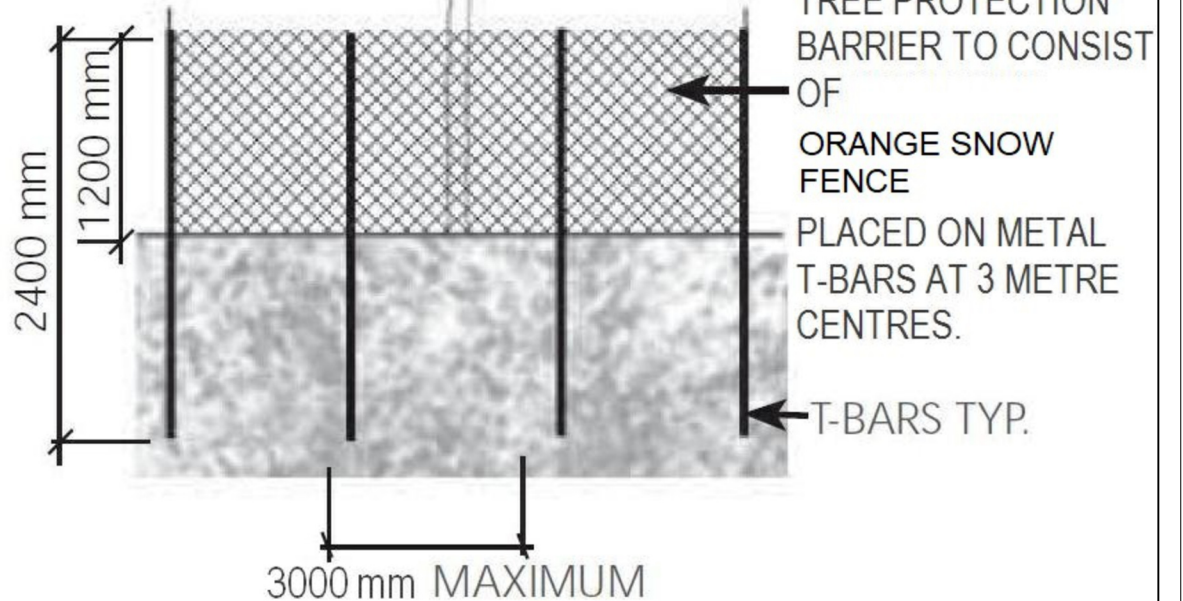
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