Arboricultural Assessment/Vegetation Management Report

Prepared 29th September 2008
Amended 19th February 2010

Site Location

14-18 Boondah Road,
Warriewood 2102

Client

Meriton Apartments Pty Ltd

DISCLAIMER

The author and Tree & Landscape Consultants take no responsibility for actions taken and their consequences, contrary to those expert and professional instructions given as recommendations pertaining to safety by way of exercising our responsibility to our client and the public as our duty of care commitment, to mitigate or prevent hazards from arising, from a failure moment in full or part, from a structurally deficient or unsound tree or a tree likely to be rendered thus by its retention and subsequent modification/s to its growing environment either above or below ground contrary to our advice.

Peter Richards
Tree & Landscape Consultants

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Site Analysis, Arboricultural Assessments

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29th September, 2008
"Amended" 19th February 2010

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Our reference: 1039-1-09

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INTRODUCTION

This report has been prepared by Tree & Landscape Consultants for Meriton Apartments Pty Limited the owners of the property. The site was inspected and the subject trees and site vegetation were evaluated on the 13th & 18th September 2008 by the author. The land is located in the Pittwater Council (the Council) Local Government Area (LGA) and a Tree Preservation Order applies. This report assesses 749 trees the location of which is indicated in Appendix F & G and details their current health & condition and determines from the assessment, recommendations for their retention or removal and provides recommendations for the management of weeds observed. The following plans have been reviewed for the purposes of this report:

- Overall Site Plan dated 27th January 2010.
- Survey Plan prepared by JBW Surveyors Pty Ltd Dated 22nd October 2008.

The current design and its configuration were arrived at prior to undertaking this Arboricultural Assessment. The trees assessed are detailed in section 3 table 2, setbacks for the establishment of tree protection zones (TPZ) for trees to be retained are provided in section 3 table 3 and a schedule of works is provided within table 1. Details regarding tree heights, crown spreads & trunk diameters have been compiled as part of survey documentation and have been considered for the establishment of setbacks for the erection of Tree Protection Zones. Heavily overgrown vegetated sections of the property comprising predominately She-Oak forest have been surveyed indicating their perimeters only and are identified as areas A,B & C within appendix F.

SUMMARY

Of the 749 trees individually assessed most impacted upon are within the Poplar plantation on the disturbed areas of the site. Many of these trees were diseased or declining. Management of weeds specifically identified on site are addressed within section 4 of this report. The most significant vegetation present is located along the southern boundaries of the property extending into neighbouring lands. Some individual trees within and adjacent to these areas have been surveyed for orientation purposes but the areas overall have been identified within this report as areas A, B & C. Area "A" will be impacted upon through construction of the proposed roadway and areas "B & C" will require removal of trees from the northern areas of the stands to allow for proposed flood storage requirements. Remaining trees within these areas are to be protected within Tree Protection Zones (TPZs) encompassing multiple trees.

Proposed boardwalks within and adjacent to areas B & C and the integration and protection of the she oak forest is to be achieved through use of pier footings to be hand excavated minimising disturbance of existing ground to protect tree roots. A schedule of proposed works is provided as follows within table 1.0:

Table 1.0 Schedule of works and trees affected.

Tree Nos.	Description of work to be done
1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20, 21,22,23,24,25,26,27,28,29,30,31,32,33,34,35,36,37, 38,39,40,41,42,43,44,45,46,47,48,49,50,51,52,53,54, 55,56,57,58,59,60,61,62,63,64,65,66,67,68,69,70,71, 72,73,74,75,76,77,78,79,80,81,82,83,84,85,86,87,88, 89,90,91,92,93,94,95,96,97,98,99,100,101,102,103, 104,105,106,107,108,109,110,111,112,113,114,115, 116,117,117A,118,120,121,122,123,124,125,126, 127,128,129,130,131,132,133,134,135,136,137,138, 139,140,141,142,143,144,146,147,148,149,150,151, 152,153,154,155,156,157,158,159,160,161,162,163, 164,165,166,167,168,169,170,171,172,173,174,175, 176,177,178,179,180,181,182,183,184,185,186,187, 188,189,190,191,192,193,194,195,196,197,198,199, 200,201,202,203,204,205,206,207,208,209,210,211, 212,213,214,215,216,217,218,219,220,221,222,223, 224,225,226,227,228,229,230,231,232,233,234,235, 236,237,238,239,240,241,242,243,244,245,246,247, 248,249,250,251,252,253,254,255,256,257,258,259, 260,261,262,263,264,265,266,267,268,269,270,271, 272,273,274,275,276,277,278,279,280,281,282,283, 284,285,286,287,288,289,290,291,292,293,294,295, 296,297,298,299,300,301,302,303,304,305,306,307, 308,309,310,311,312,313,314,315,316,317,318,319, 320,321,322,323,324,325,326,327,328,329,330,331, 332,333,334,335,336,337,338,339,340,341,342,343, 344,345,346,347,348,349,350,351,352,353,354,355, 356,357,358,359,360,361,362,363,364,365,366,367, 368,369,370,371,372,373,374,375,376,377,378,379, 380,381,382,383,384,385,386,387,388,389,390,391, 392,393,394,395,396,397,398,399,400,401,402,403, 404,405,406,407,408,409,410,411,412,413,414,415, 416,417,418,419,420,421,422,423,424,425,426,427, 428,429,430,431,432,433,434,435,436,437,438,439, 440,441,442,443,444,445,446,447,448,449,450,451, 452,453,454,455,456,457,458,459,460,461,462,463, 464,465,466,467,468,469,470,471,472,473,474,475, 476,477,478,479,480,481,482,483,484,485,486,487, 488,489,490,491,492,493,494,495,496,497,498,499, 500,501,502,503,504,505,506,507,508,509,510,511, 512,513,514,515,516,517,518,519,520,521,522,523, 524,525,526,527,528,529,530,531,532,533,534,535, 536,537,538,539,540,541,542,543,545,546,547,548, 549,551,552,553,554,555,556,557,558,559,560,561, 562,563,564,565,566,567,568,569,570,571,572,573, 574,575,576,577,578,579,580,582,583,584,585,586, 587,588,589,590,591,592,593,594,595,596,597,598, 599,600,601,602,603,604,605,606,607,608,609,610, 610A,611,611A,612,613,614,615,616,617,617A,618, 618A,619,619A,620,621,622,622A623,624,625,626, 626A,627,627A,628A&B,629,629A,630,631,631A, 632,632A,633,633A,634,634A,635,636,636A,637, 637A,638,638A,639,639A,640,641,642,643,644,645, 646,647,648,649,650,651,652,654,655,656,657,658, 659,660,661,662,663,664,665,666,667,668,669,673, 674,675,676,680,681,684,685,686,687,688,689,690,	*Populus deltoides* - Remove & Replace: 1- All Poplars are to be removed and replaced with alternate plantings as part of landscape works for the development. 2-Tree numbers 7,10,14,19,20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 31, 32, 33, 45, 46, 47, 53, 62, 68, 69, 72, 75, 79, 101, 128, 136, 174, 211, 223, 257, 340, 418, 436, 682, 690, 691 have been assessed as supporting significant hollows, cavities or cracks and could potentially be deemed as habitat trees .These trees are to be marked with a bright fluro tape encircling the lower trunk prior to any removal works being undertaken to indicate their significance. 3-Prior to their removal a suitably qualified wildlife handler is to inspect these trees and is to be present throughout the removal process to relocate or care for any fauna that may be present.

691,692,693,694,695,696,697,698,699,700, ,703,704,705,706.	

Table 1.0 Schedule of works and trees affected.

Tree Nos.	Description of work to be done
119,145,550,612,615,640,641,645,642,643,647,648, 650,654,655,656,657,658,659,660,661,662,663,664, 670,671,672,677,682,683,693,694,695,696,697,698, 699,700,701,702,707,708,709,710,900,901,902,903, 904,905,906,907,908,909,910,911,912,913,915.	Casuarina glauca: 1-Remove & Replace- The following trees individually assessed are within or directly adjacent to the proposed development works and associated changes to the land and will require removal: 640,641,642,643,644,645,646,647,648,649,650,653,654, 655,656,657,658,659,660,661,662,663,664,670,671,672,677,682,683,693, 694,695,696,697,698,699,700,701,702,707,708,709,710. Also most of section A, B *& C (She-Oak Forest)* will require removal to enable roadway construction and flood storage areas. Some existing trees within this area can be retained and where possible and will be supplemented with further new plantings to maintain the existing wildlife corridor in accordance with landscape documentation prepared for the project. 2-Retain & Protect- All remaining Casuarinas within areas A, B & C which can be retained are to be retained encompassing multiple trees within TPZs within the property boundaries only. 3-Siltation fencing is to be attached to the extremities of all Tree Protection Zone (TPZ) Fencing or boundary fencing that delineates neighbouring trees from the proposed development site. 4-TPZs to be erected in accordance with Appendix E. 5- All construction for boardwalks within and adjacent to areas A, B & C on the attached Masterplan (see appendix F) are to be elevated and of pier and beam type construction. 6- All pier holes to be hand dug to depths required. The design and location of piers are to be flexible to ensure clearance of at least 100mm from any structural root that may be encountered. 7- Any excavation for construction within (TPZs) (see table 3) are to be monitored by the consulting Arboriculturist to ensure protection of root system. 8- No site residues or stockpiling of materials to be deposited within (TPZs).
581	Pinus radiata: 1-Remove & Replace- Species will be out of character with adjacent existing indigenous landscape and proposed indigenous landscaping and is to be removed and replaced with alternate plantings as part of landscape works for the development.
629,629A,674,675,676, ,678,679,682,689,690,691,692,703,914,916	Erythrina x sykesii: 1-Remove & Replace- The species is an urban weed and is to be removed and replaced with alternate plantings as part of landscape works for the development.
649,651,652	Angophora costata 1-Remove & Replace with alternate plantings as part of landscape works for the development. Trees directly affected by the location of the proposed building envelopes and associated works.
653	Eucalyptus botryoides: 1-Remove & Replace with alternate plantings as part of landscape works for the development. Tree directly affected by the location of the proposed building envelopes and associated works.
684,685,686,687,688	Callistemon viminalis: 1-Remove & Replace with alternate plantings as part of landscape works for the development. Trees directly affected by the location of the proposed building envelopes.

1. OBJECTIVES

1.1 Assess the condition of the subject trees.

1.2 Provide recommendations for retention or removal of the subject trees.

1.3 Provide management actions and strategies for weeds present on the site.

2. METHODOLOGY

2.1 The method of assessment of tree/s is applied from the ongoing knowledge and development of the author and considers but is not confined to:

- Tree health and subsequent stability, both long and short term
- Sustainable Retention Index Value (S.R.I.V.)© IACA 2005)
- Amenity values
- Significance

2.2 This assessment is undertaken using a standard tree assessment criteria for each tree based on the values above and is implemented as a result of at least one comprehensive and detailed site inspection.

2.3 In this report the dimensions of the tree recorded by the author for the trunk *diameter at breast height* (DBH) measurement is calculated at 1.4m above ground from the base of the tree. Where a tree is trunkless or branches at or near ground such as a mallee formed tree, an average diameter is determined by recording the radial extent of the stem mass at its narrowest and widest dimensions, adding the two dimensions together and dividing them by 2 to record an average.

2.4 Crown spreads are expressed as length by breadth measurements to accurately record their dimensions. Where appropriate, *crown spread orientation* is described along the length of the crown spread e.g. North/South, or as *radial* if the crown is distributed at an approximately even radius from the trunk e.g. 6x6m.

2.5 In the absence of an Australian Standard, the British Standard BS 5837 Guide for "Trees in relation to construction", where applicable is applied to trees to be retained in this report as a point of reference and guide for the recommended minimum clearances from the centre of tree trunks to development works and is applied as a generalised benchmark and the distances may be increased or decreased by the author as a result of other factors providing mitigating circumstances or constraints as indicated by but not restricted to the following:

- *Tolerance of individual species to disturbance,*
- *Geology e.g. physical barriers in soil, floaters, bedrock to surface*
- *Topography e.g. slope, drainage,*
- *Soil e.g. depth, drainage, fertility, structure,*
- *Microclimate e.g. due to landform, exposure to dominant wind,*
- *Engineering e.g. techniques to ameliorate impact on trees such as structural soil, lateral boring,*
- *Construction e.g. techniques to ameliorate impact on trees such as pier and beam, bridge footings, suspended slabs*
- *Arboriculture e.g. exploration trenches to map location of roots,*
- *Physical limitations - existing modifications to the environment and any impact to tree/s by development e.g. property boundaries, road reserves, previous impact by excavation in other directions, soil level changes by cutting or filling, existing landscaping works within close proximity, modified drainage patterns.*

3. TREE ASSESSMENTS

Table 2

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
1	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	A/W	X	MNVF9
Comments: Minor branch failures, small amount of deadwood.							
2	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: Partially lopped to clear wires.							
3	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: Partially lopped to clear wires.							
4	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: Partially lopped to clear wires.							
5	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: Partially lopped to clear wires.							
6	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	MNVF9
Comments: Minor branch failures, small amount of deadwood.							
7	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of crown head, large cavity present.							
8	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: Dieback of 1st order branching evident.							
9	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: Smaller insignificant specimen.							
10	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of crown head, large cavity present.							
11	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: Several leaders extend from ground.							
12	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Dual leader specimen. Leader to the east previously failed.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
13	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Dieback of centre leader evident.							
14	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of crown head, large cavity present N/W aspect.							
15	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable faults from ground inspection.							
16	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Dieback of centre leader evident.							
17	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Trunk only remaining							
18	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Failure of 1st order leaders throughout crown.							
19	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Dieback throughout crown, large cavity present.							
20	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Dieback throughout crown, large cavity present.							
21	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Cavities & dieback only trunk remaining.							
22	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Cavities & dieback only trunk remaining.							
23	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Cavities & dieback only trunk remaining.							
24	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Cavities & dieback only trunk remaining.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age **S**-Sapling **Y**-Young **M**-Mature **O**-Overmature	Condition **D**-Dead **P**-Poor **F**-Fair **G**-Good	Vigour **L**-Low **N**-Normal **D**- Dormant	Canopy Orientation **A**-Asymmetrical **Sy**-Symmetrical **N,S,E,W**-Orientation	Trunk Lean **X**-Straight or Slightly Leaning **A**-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
25	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Cavities upper crown & trunk.							
26	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Trunk cavities present .							
27	**Populus deltoides** *Eastern Cottonwood.*	O	P	L	Sy	X	OLVP2
Comments: Large trunk cavities present .Tree likely to fail.							
28	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Large cavity present N/W aspect 10m from ground.							
29	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Failure of 1st order leaders .							
30	**Populus deltoides** *Eastern Cottonwood.*	O	P	L	Sy	X	OLVP2
Comments: Large trunk cavities present .Tree likely to fail.							
31	**Populus deltoides** *Eastern Cottonwood.*	O	P	L	Sy	X	OLVP2
Comments: Large trunk cavities forming							
32	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of crown head, cavities present.							
33	**Populus deltoides** *Eastern Cottonwood.*	O	P	L	Sy	X	OLVP2
Comments: Large trunk cavities forming, failure of most crown structure							
34	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: Failure of 1st order lower leader.							
35	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: Slightly leaning edge tree.							
36	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Failure of upper crown leaders.							
37	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Failure of upper crown leaders.							
38	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Failure of upper crown leaders.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age **S**-Sapling **Y-**Young **M**-Mature **O**-Overmature	Condition **D**-Dead **P**-Poor **F**-Fair **G**-Good	Vigour **L**-Low **N**-Normal **D**- Dormant	Canopy Orientation **A**-Asymmetrical **Sy**-Symmetrical **N,S,E,W**-Orientation	Trunk Lean **X-**Straight or Slightly Leaning **A-**Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
39	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Failure of upper crown leaders.							
40	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Failure of upper crown leaders.							
41	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Failure of upper crown leaders. Crown head previously failed							
42	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Failure of upper crown leaders.							
43	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Failure of upper crown leaders.							
44	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Failure of upper crown leaders.							
45	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of crown head, cavities present.							
46	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of crown head, cavities present.							
47	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of crown head, cavities present.							
48	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of crown head.							
49	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of crown head.							
50	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of crown head, trunk only remaining.							
51	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of most crown structure evident.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
52	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of crown head.							
53	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of crown head, cavities present.							
54	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of crown head.							
55	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of crown head.							
56	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of crown head.							
57	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of crown head.							
58	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Failure of upper crown leaders.							
59	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Dieback of upper crown leaders.							
60	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Dieback of upper crown superior leaders.							
61	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Dieback of upper crown superior leaders.							
62	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Apex of crown malformed, cavities forming.							
63	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
64	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
65	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
66	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
67	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
68	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Some upper crown cavities.							
69	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Some upper crown cavities.							
70	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
71	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Dieback of 1st order leaders.							
72	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Some upper crown cavities.							
73	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
74	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Failure of eastern superior leader.							
75	**Populus deltoides** *Eastern Cottonwood.*	M	P	N	Sy	X	MNVP6
Comments: Cavities evident.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age **S**-Sapling **Y**-Young **M**-Mature **O**-Overmature	Condition **D**-Dead **P**-Poor **F**-Fair **G**-Good	Vigour **L**-Low **N**-Normal **D**- Dormant	Canopy Orientation **A**-Asymmetrical **Sy**-Symmetrical **N,S,E,W**-Orientation	Trunk Lean **X**-Straight or Slightly Leaning **A**-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
76	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
77	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
78	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
79	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments:Large cavity present.							
80	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
81	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
82	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
83	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
84	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
85	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
86	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
87	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
88	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age **S**-Sapling **Y**-Young **M**-Mature **O**-Overmature	Condition **D**-Dead **P**-Poor **F**-Fair **G**-Good	Vigour **L**-Low **N**-Normal **D**- Dormant	Canopy Orientation **A**-Asymmetrical **Sy**-Symmetrical **N,S,E,W**-Orientation	Trunk Lean **X**-Straight or Slightly Leaning **A**-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
89	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
90	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
91	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
92	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
93	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
94	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
95	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
96	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
97	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
98	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
99	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
100	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age **S**-Sapling **Y**-Young **M**-Mature **O**-Overmature	Condition **D**-Dead **P**-Poor **F**-Fair **G**-Good	Vigour **L**-Low **N**-Normal **D**- Dormant	Canopy Orientation **A**-Asymmetrical **Sy**-Symmetrical **N,S,E,W**-Orientation	Trunk Lean **X**-Straight or Slightly Leaning **A**-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
101	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Huge trunk cavity.							
102	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
103	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
104	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
105	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
106	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
107	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
108	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
109	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
110	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
111	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
112	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
113	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
114	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
115	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
115	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
117 & 117A	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
118	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Stump only remaining.							
119	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound. Some dieback.							
120	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
121	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
122	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
123	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
124	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
125	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
126	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
127	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
128	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Large cracks forming upper crown northern aspect.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age **S**-Sapling **Y**-Young **M**-Mature **O**-Overmature	Condition **D**-Dead **P**-Poor **F**-Fair **G**-Good	Vigour **L**-Low **N**-Normal **D**- Dormant	Canopy Orientation **A**-Asymmetrical **Sy**-Symmetrical **N,S,E,W**-Orientation	Trunk Lean **X**-Straight or Slightly Leaning **A**-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
129	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
130	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
131	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
132	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
133	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
134	**Populus deltoides** *Eastern Cottonwood.*	O	P	N	Sy	X	ONVP4
Comments: Failure of upper crown.							
135	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
136	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Cracks forming upper crown previously failed							
137	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
138	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
139	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
140	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
141	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
142	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
143	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
144	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
145	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
146	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
147	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
148	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
149	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
150	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
151	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
152	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
153	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
154	**Populus deltoides** *Eastern Cottonwood*						
Comments: The tree is dead							
155	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
156	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
157	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
158	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
159	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
160	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
161	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
162	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
163	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
164	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
165	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
166	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
167	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
168	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
169	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
170	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
171	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
172	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
173	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
174	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed & large cavity present.							
175	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
176	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
177	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
178	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
179	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
180	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
181	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
182	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
183	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age **S**-Sapling **Y**-Young **M**-Mature **O**-Overmature	Condition **D**-Dead **P**-Poor **F**-Fair **G**-Good	Vigour **L**-Low **N**-Normal **D**- Dormant	Canopy Orientation **A**-Asymmetrical **Sy**-Symmetrical **N,S,E,W**-Orientation	Trunk Lean **X**-Straight or Slightly Leaning **A**-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
184	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
185	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
186	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
187	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
188	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
189	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
190	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
191	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
192	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
193	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
194	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
195	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
196	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
197	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
198	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
199	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
200	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
201	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
202	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
203	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
204	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
205	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
206	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
207	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
208	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
209	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
210	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
211	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed & cavities present.							
212	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown superior leader previously failed.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
213	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown superior leader previously failed.							
214	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
215	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
216	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
217	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
218	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
219	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
220	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
221	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
222	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
223	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Huge basal cavity present.							
224	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
225	**Populus deltoides** *Eastern Cottonwood*	O	P	L	Sy	X	OLVP0
Comments: Extensive dieback of upper crown.							
226	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
227	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
228	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
229	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
230	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
231	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
232	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
233	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
234	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
235	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
236	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
237	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
238	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
239	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
240	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
241	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
242	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Superior crown leader previously failed.							
243	**Populus deltoides** *Eastern Cottonwood*	O	P	L	Sy	X	OLVP0
Comments: Stump only remaining.							
244	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
245	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
246	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
247	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP2
Comments: Dual leader one previously failed.							
248	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
249	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
250	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
251	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
252	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
253	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
254	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
255	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
256	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
257	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP2
Comments: Large basal cavity present.							
258	**Populus deltoides** *Eastern Cottonwood*	O	P	L	Sy	X	OLVP0
Comments: Decay of upper crown leader.							
259	**Populus deltoides** *Eastern Cottonwood*	O	P	L	Sy	X	OLVP0
Comments: Stump only remaining.							
260	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
261	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
262	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
263	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
264	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
265	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
266	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
267	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
268	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
269	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
270	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
271	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
272	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
273	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
274	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
275	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
276	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
277	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
278	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
279	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
280	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
281	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
282	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
283	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
284	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
285	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
286	**Populus deltoides** *Eastern Cottonwood*	O	P	L	Sy	X	OLVP0
Comments: Stump only remaining.							
287	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
288	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
289	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
290	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
291	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
292	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown leader previously failed.							
293	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
294	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
295	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
296	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Decay evident throughout crown.							
297	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
298	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
299	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously partially failed.							
300	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously partially failed.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
301	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously partially failed.							
302	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously partially failed.							
303	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
304	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
305	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
306	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
307	**Populus deltoides** *Eastern Cottonwood*	O	P	L	Sy	X	OLVP0
Comments: Stump only remaining.							
308	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
309	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
310	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
311	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
312	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
313	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
314	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
315	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
316	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
317	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
318	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
319	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
320	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
321	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
322	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
323	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
324	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
325	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
326	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
327	**Populus deltoides** *Eastern Cottonwood*	O	P	L	Sy	X	OLVP0
Comments: Stump only remaining.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
328	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
329	**Populus deltoides** *Eastern Cottonwood*	O	P	L	Sy	X	OLVP0
Comments: Stump only remaining.							
330	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
331	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
332	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
333	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
334	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown superior leader previously failed.							
335	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
336	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown superior leader previously failed.							
337	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
338	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
339	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Crown head previously failed.							
340	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Crown head partially failed. Large trunk cavity.							
341	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
342	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
343	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Superior crown leader previously failed.							
344	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
345	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Crown head previously failed.							
346	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
347	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
348	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
349	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
350	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
351	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
352	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
353	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
354	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
355	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
356	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
357	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
358	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
359	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
360	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
361	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
362	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
363	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
364	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
365	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
366	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
367	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
368	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
369	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
370	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
371	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
372	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
373	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
374	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
375	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
376	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
377	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
378	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
379	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
380	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
381	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
382	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
383	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
384	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
385	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
386	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
387	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
388	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
389	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
390	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
391	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
392	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
393	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Stump only remaining.							
394	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
395	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
396	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Stump only remaining.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
397	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
398	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Stump only remaining.							
399	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Stump only remaining.							
400	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
401	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Stump only remaining.							
402	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Stump only remaining.							
403	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
404	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
405	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
406	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
407	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
408	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
409	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
410	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
411	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
412	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Stump only remaining.							
413	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
414	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
415	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
416	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
417	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
418	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Large cavity present.							
419	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
420	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
421	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
422	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
423	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
424	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
425	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
426	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
427	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
428	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
429	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
430	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
431	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
432	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
433	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
434	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
435	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
436	**Populus deltoides** *Eastern Cottonwood*	O	P	L	Sy	X	OLVP0
Comments: Large cavity present, hollowed throughout.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
437	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
438	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
439	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
440	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
441	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
442	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
443	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
444	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
445	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
446	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
447	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
448	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
449	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
450	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
451	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
452	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
453	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
454	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
455	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
456	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
457	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
458	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
459	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
460	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
461	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
462	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
463	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
464	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
465	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
466	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
467	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
468	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
469	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
470	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
471	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
472	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
473	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
474	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
475	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
476	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
477	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
478	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
479	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
480	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
481	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
482	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
483	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
484	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
485	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
486	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
487	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
488	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
489	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
490	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
491	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
492	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
493	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
494	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W- Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
495	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
496	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
497	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
498	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Dual leader 1 x upper crown leader previously failed							
499	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
500	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
501	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
502	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
503	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
504	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
505	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
506	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
507	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
508	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
509	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
510	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
511	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
512	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
513	**Populus deltoides** *Eastern Cottonwood.*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
514	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
515	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
516	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
517	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
518	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
519	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
520	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
521	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
522	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
523	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
524	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
525	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
526	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
527	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
528	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
529	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
530	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
531	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
532	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
533	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
534	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
535	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
536	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
537	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
538	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
539	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
540	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
541	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
542	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
543	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
544	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
545	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
546	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
547	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
548	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
549	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
550	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
551	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed. Stump remaining.							
552	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
553	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
554	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
555	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
556	**Populus deltoides** *Eastern Cottonwood*	O	P	L	Sy	X	OLVP0
Comments: Upper crown previously failed. Stump remaining.							
557	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
558	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
559	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
560	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed. Stump remaining.							
561	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
562	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
563	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
564	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
565	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
566	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
567	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
568	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
569	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
570	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
571	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
572	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
573	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
574	**Populus deltoides** *Eastern Cottonwood*	Y	P	N	Sy	X	YNVP4
Comments: Upper crown previously failed.							
575	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
576	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
577	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
578	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
579	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
580	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
581	**Pinus radiata** *Monterey Pine*	M	F	N	Sy	X	MNVF9
Comments: Dieback of lower order leaders evident.							
582	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
583	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
584	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
585	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
586	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
587	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
588	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
589	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
590	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
591	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
592	**Populus deltoides** *Eastern Cottonwood*	Y	P	N	Sy	X	YNVP4
Comments: Upper crown previously failed.							
593	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
594	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
595	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
596	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
597	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
598	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
599	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
600	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
601	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
602	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
603	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed.							
604	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
605	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
606	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
607	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
608	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
609	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
610 & 610A	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
611 & 611A	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
612	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
613	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
614	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
615	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
616	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W- Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
617 & 617A	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
618 & 618 A	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
619 & 619A	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
620	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
621	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
622 & 622A	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
623	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
624	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
625	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
626 & 626A	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
627 & 627A	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
628	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
628A &B	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
629 & 629A	**Erythrina x sykesii** *Coral Tree*	O	P	N	Sy	X	ONVP4

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
630	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
631 & 631A	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
632 & 632A	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
633 & 633A	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
634 & 634A	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
635	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
636 & 636A	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
637 & 637A	**Populus deltoides** *Eastern Cottonwood*	M	P	N	Sy	X	MNVP6
Comments: Smaller declining specimen							
638 & 638A	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
639& 639A	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
640	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
641	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
642	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
643	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
645	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
646	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
647	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
648	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
649	**Angophora costata** *Smooth Barked Apple*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
650	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
651	**Angophora costata** *Smooth Barked Apple*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
652	**Angophora costata** *Smooth Barked Apple*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
653	**Eucalyptus botryoides** *Bangalay*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
654	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
655	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
656	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
657	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W- Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
658	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
659	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
660	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
661	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
662	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
663	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
664	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
665	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Stump only remaining.							
666	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Stump only remaining.							
667	**Populus deltoides** *Eastern Cottonwood*	O	P	N	Sy	X	ONVP4
Comments: Upper crown previously failed							
668	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No major defects noted.							
669	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
670	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
671	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W- Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
672	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
673	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
674	**Erythrina x sykesii** *Coral Tree*	M	P	N	Sy	X	MNVP6
Comments: No notable major defects.							
675	**Erythrina x sykesii** *Coral Tree*	M	F	N	Sy	X	MNVF9
Comments: No notable major defects.							
676	**Erythrina x sykesii** *Coral Tree*	M	P	N	Sy	X	MNVP6
Comments: Multi leader specimen, no notable defects.							
677	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound. Some dieback.							
678	**Erythrina x sykesii** *Coral Tree*	M	P	N	Sy	X	MNVP6
Comments: Multi leader specimen, some dieback.							
679	**Erythrina x sykesii** *Coral Tree*	M	P	N	Sy	X	MNVP6
Comments: Multi leader specimen, some dieback.							
680	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: Some dieback lower order branching.							
681	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: Some dieback lower order branching.							
682	**Erythrina x sykesii** *Coral Tree*	O	P	N	Sy	X	ONVP4
Comments: Main leaders splitting.							
683	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
684	**Callistemon viminalis** *Bottlebrush*	M	F	N	Sy	X	MNVF9
Comments: Row smaller trees appearing structurally sound.							
685	**Callistemon viminalis** *Bottlebrush*	M	F	N	Sy	X	MNVF9
Comments: Row smaller trees appearing structurally sound.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
686	**Callistemon viminalis** *Bottlebrush*	M	F	N	Sy	X	MNVF9
Comments: Row smaller trees appearing structurally sound.							
687	**Callistemon viminalis** *Bottlebrush*	M	F	N	Sy	X	MNVF9
Comments: Row smaller trees appearing structurally sound.							
688	**Callistemon viminalis** *Bottlebrush*	M	F	N	Sy	X	MNVF9
Comments: Row smaller trees appearing structurally sound.							
689	**Erythrina x sykesii** *Coral Tree*	M	P	N	Sy	X	MNVP6
Comments: Leaning to the north.							
690	**Erythrina x sykesii** *Coral Tree*	M	P	N	Sy	X	MNVP6
Comments: Some decayed branching.							
691	**Erythrina x sykesii** *Coral Tree*	M	P	N	Sy	X	MNVP6
Comments: Some decayed branching.							
692	**Erythrina x sykesii** *Coral Tree*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
693	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
694	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
695	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
696	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
697	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
698	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
699	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
700	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
701	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
702	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
703	**Erythrina x sykesii** *Coral Tree*	O	P	N	Sy	A	ONVP2
Comments: Mass of suckering shoots extending from ground.							
704	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
705	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
706	**Populus deltoides** *Eastern Cottonwood*	M	F	N	Sy	X	MNVF9
Comments: No notable defects.							
707	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
708	**Casuarina glauca** *She-Oak*	Y	F	N	Sy	X	YNVF8
Comments: Habit forest form appearing structurally sound.							
709	**Casuarina glauca** *She-Oak*	Y	F	N	Sy	X	YNVF8
Comments: Habit forest form appearing structurally sound.							
710	**Casuarina glauca** *She-Oak*	Y	F	N	Sy	X	YNVF8
Comments: Habit forest form appearing structurally sound.							

Table 3 cont.

Tree No.	Genus & species Common Name	Age S-Sapling Y-Young M-Mature O-Overmature	Condition D-Dead P-Poor F-Fair G-Good	Vigour L-Low N-Normal D- Dormant	Canopy Orientation A-Asymmetrical Sy-Symmetrical N,S,E,W-Orientation	Trunk Lean X-Straight or Slightly Leaning A-Acaulescent	SRIV Age,Vigour,Condition/ Index Rating (See Appendix A)
900	**Casuarina glauca** *She-Oak*	Y	F	N	Sy	X	YNVF8
Comments: Habit forest form appearing structurally sound.							
901	**Casuarina glauca** *She-Oak*	Y	F	N	Sy	X	YNVF8
Comments: Habit forest form appearing structurally sound.							
902	**Casuarina glauca** *She-Oak*	Y	F	N	Sy	X	YNVF8
Comments: Habit forest form appearing structurally sound.							
903	**Casuarina glauca** *She-Oak*	Y	F	N	Sy	X	YNVF8
Comments: Habit forest form appearing structurally sound.							
904	**Casuarina glauca** *She-Oak*	Y	F	N	Sy	X	YNVF8
Comments: Habit forest form appearing structurally sound.							
905	**Casuarina glauca** *She-Oak*	Y	F	N	Sy	X	YNVF8
Comments: Habit forest form appearing structurally sound.							
906	**Casuarina glauca** *She-Oak*	Y	F	N	Sy	X	YNVF8
Comments: Habit forest form appearing structurally sound.							
907	**Casuarina glauca** *She-Oak*	Y	F	N	Sy	X	YNVF8
Comments: Habit forest form appearing structurally sound.							
908	**Casuarina glauca** *She-Oak*	Y	F	N	Sy	X	YNVF8
Comments: Habit forest form appearing structurally sound.							
909	**Casuarina glauca** *She-Oak*	Y	F	N	Sy	X	YNVF8
Comments: Habit forest form appearing structurally sound.							
910	**Casuarina glauca** *She-Oak*	Y	F	N	Sy	X	YNVF8
Comments: Habit forest form appearing structurally sound.							
911	**Casuarina glauca** *She-Oak*	Y	F	N	Sy	X	YNVF8
Comments: Habit forest form appearing structurally sound.							
912	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
913	**Casuarina glauca** *She-Oak*	M	F	N	Sy	X	MNVF9
Comments: Habit forest form appearing structurally sound.							
914	**Erythrina x sykesii** *Coral Tree*	M	P	N	Sy	X	MNVP6
Comments: Some decayed branching.							
915	**Casuarina glauca** *She-Oak*	Y	F	N	Sy	X	YNVF8
Comments: Habit forest form appearing structurally sound.							
916	**Erythrina x sykesii** *Coral Tree*	M	P	N	Sy	X	MNVP6
Comments: Some decayed branching.							

Table 3 Setbacks for tree protection zones

This table only applies to trees being retained and potentially impacted upon by the proposed works to be included within a Tree Protection Zone. Tree Protection Zone fencing locations where required as measured from the centre of each tree and the recommended distances for the side closest to the building construction works e.g. excavation. (see explanatory notes below).

A	B	C	D	E	F	G
Tree No/ Area.	**Trunk Diameter** in millimetres at 1.4m above ground, or mm or m above ground where indicated.	**Age of tree** **Y** = Young **S** = Semi-mature **M** = Mature **O** = Over-mature (senescent)	**Tree Vigour Normal Vigour=** NV Or **Low Vigour=** LV	**British Standard BS 5837:1991'Guide for trees in relation to construction.** Recommended distance per DBH in metresl)	**Distance of fence reduced by one third on one side of tree only, in metres**. As per BS 5837:1991section 7.5.5	**Recommended distance of tree protection fence /zone on the side closest to building /construction in metres.** (See explanatory notes below , table 2 & report recommendations)
Area A	200-500 (Ave)	M	NV	6	4	4(1)
Area B	200-500 (Ave)	M	NV	6	4	4(1)
Area C	200-500 (Ave)	M	NV	6	4	4(1)
,900,901, 902,903, 904,905, 906,907, 908,909, 910,911, 912,913, 915.	200-500 (Ave)	M	NV	6	4	4(1)

Explanatory notes for Table 2.0.

This table is based upon British Standard BS 5837 : 1991 Guide for "Trees in relation to construction." Table 1. Protection of trees: minimum distances for protective fencing around trees' (see Appendix C), where the approved building works should be no closer, including excavation, than the dimensions stated above when the age and vigour of each tree is considered.
If this set back cannot be met the dripline (the lateral extent of the branch and foliage crown) of the tree is considered the appropriate location for the tree protection fence. However, if the prescribed setback from the trunk of the tree for the location of the Tree Protection Zone, is unable to accommodate the location of building works nearby in accordance with British Standard BS 5837 : 1991 Guide for "Trees in relation to construction. 7.5 Prevention of damage to roots", of that Standard provides the following:

"7.5.5 If it is deemed acceptable for construction works to occur closer than the minimum distance, the distance can be reduced by up to one - third on one side only. If distances are reduced in this way, a corresponding increase in distances should be made in other directions"

*****	Average diameter.
1	Special conditions apply to protect the roots of trees generally, see recommendations
2	Additional protective fencing and works as detailed in appendix D & E.
3	Acceptable due to the good relative tolerance of the species to development impacts
4	Range of set backs for the trees at each end of a linear stand.
5	Acceptable as fence located at a substantial distance beyond dripline, or may also include the location of a smaller tree in proximity to a larger tree to be retained and the smaller tree being protected well within the protective fencing for that larger tree.
6	Acceptable due to additional special protection works, see Appendix D & recommendations for this tree.
7	Acceptable as pre-existing site conditions were conducive to having restricted the development of root growth in this direction.
8	Street tree with protective fencing of minimal width to allow for pedestrian access along road reserve.
9	Acceptable as tree transplanted reducing the area of the root zone.
10	Acceptable as not effected by development.
11	Palm species or young tree not expected to have established a substantially expansive root system and able to re-establish or modify growth to be sustainable due to age and normal vigour.
12	Set back prescribed by the consent authority.
13	Acceptable as tree growing on a lean and encroachment on compression wood side where root growth is of reduced structural importance.
14	Acceptable as root mapping has indicated extent of structural woody roots with a diameter of 40mm or more.
15	Acceptable as pre-existing conditions would have aided in the deflection of roots away from the proposed development site.

4. DISCUSSION/ WEED MANAGEMENT

This report finds that most trees assessed and impacted upon by the proposed residential development are exotic species located within the highly disturbed areas of the site. Of these trees many exhibited failing branches and altered crown habits. Forty of these trees were identified as having significant size hollows, cavities or cracks which could potentially provide shelter or nesting sites for fauna. These observations have been made from a ground inspection and other trees within the poplar community may also support smaller hollows suitable for nesting. Most of the poplar trees are passing maturity or are in overmaturity and are not considered suitable for retention within and adjacent to the proposed residential development.

The most significant vegetation present is the she oak forest located within and adjoining the site. These areas have been identified as A, B & C in Appendix F to enable better orientation along the boundary as most trees within these areas have not been individually surveyed or assessed. The main impacts upon the she oak forest is due to the roadway and proposed dwellings within and adjacent to area A and due to the requirements of flood storage and subsequent encroachment and grading within areas B & C. Further impacts upon these areas within these areas and into adjoining lands would be through the development of weed infestation, erosion and the movement of sedimentation which will need to be controlled as part of development works.

Many weeds are present across the site such as Turkey Rhubarb, Green Cestrum, Pampas Grass, Morning Glory, Lantana, Large-leaf Privet, Small-Leaf Privet, Water Primrose, Pellitory & Asparagus Fern. The main infestation within the she oak forest is from Lantana, Morning Glory & Privet which should be removed in accordance with industry best practice predominately through the use of hand tools and techniques sympathetic to the natural areas. Whilst most of the weed species will be removed as part of bulk earthworks within highly disturbed areas of the site specific care should be undertaken for the removal of weeds within and adjacent to the she-oak forest.

4.1 MANAGEMENT STRATEGIES

The following table describes management issues and the desired outcomes, followed by strategies to address management of vegetation on the subject site. The following matters have been identified as the key management issues to be addressed as part of site works.

- identify the land area to regenerated / revegetated.
- describe the techniques to be used for removal of existing weeds

Table 4 (WEED MANAGEMENT ISSUES)

Management Issue	Desired Outcome	Strategy
(i) identify the land areas to be regenerated /revegetated	The removal of weed infestation and revegetation of the subject land as soon as practicable following development approval.	The area to be regenerated /revegetated identified is to be clearly identified and marked on site
(ii) Describe the techniques to remove weeds	Utilisation of current best practice for the removal of weeds.	Utilise removal techniques identified in table 5

4.2 MANAGEMENT ACTIONS

The following tables and bulleted points describe management actions deemed appropriate for the site for removal of weeds within and adjacent to she oak forest areas and existing watercourses.

Table 5 (WEED MANAGEMENT ACTIONS)

Weeds	Methods of removal Application	Comments
Tradescantia fluminensis (Wandering Jew)	Hand removal of all parts, bag and remove from site. Follow up and retreatment will be required	Foliage spraying with Glyphosate may be affective to manufacturer's recommendations in winter or early spring for best results. Care must be taken not to confuse this weed with Commelina cyanea
Lantana camara (Lantana)	Hand remove small plants and seedlings. Cut and remove upper sections of larger specimens/Cut and paint stems with Glyphosate.	Foliage spraying with Glyphosate may be affective to manufacturers recommendations November to April for best results
Acetosa sagittata (Turkey Rhubarb)	Hand remove small plants and seedlings. Stem scrape or cut & paint method with larger specimens	Ensure removal of taproots if removed by hand. Remove seed and flower prior to removal.
Ageratina adenophora (Crofton Weed)	Hand removal	Ensure removal of root system. Remove seed and flower prior to removal.
Solanum nigrum (Blackberry Nightshade)	Hand removal	Ensure removal of root system. Remove seed and flower prior to removal.
Cestrum parqui (Green Cestrum)	Hand removal	Ensure removal of taproots Remove seed and flower prior to removal.
Cortaderia jubata (Pampas Grass)	Hand removal	Ensure removal of root system. Remove seed and flower prior to removal.
Ipomoea indica (Morning Glory)	Hand remove small plants and seedlings. Cut and remove upper sections of larger specimens/Cut and paint stems with Glyphosate.	Ensure removal of root system if hand pulled. Remove seed and flower prior to removal.
Ligustrum lucidum (Large-leaf Privet)	Hand remove small plants and seedlings. Stem scrape or cut & paint method with larger specimens	Ensure removal of root system if hand pulled. Cut & bag fruit and seed prior to removal.
Ligustrum sinense (Small-Leaf Privet)	Hand remove small plants and seedlings. Stem scrape or cut & paint method with larger specimens	Ensure removal of root system if hand pulled. Cut & bag fruit and seed prior to removal.
Parietaria judaica (Pellitory)	Hand removal/Spot treatment with Glyphosate	Ensure removal of root system. Remove seed and flower prior to removal.

Weeds	Methods of removal Application	Comments
Asparagus aethiopicus (Asparagus Fern)	Cut & remove seeds and fruit. Hand remove small plants and seedlings. Cut through root crown with knife for larger specimens.	Ensure removal of root system. Remove seed and flower prior to removal.
Rubus fruticosus (Blackberry)	Hand remove small plants and seedlings. Stem scrape or cut & paint method with larger specimens	Ensure removal of root system if hand removed. Remove seed and flower prior to removal.

4.3 Maintenance/Reporting Schedule

- Following removal of weeds revegetation is to occur utilising species identified within the landscape documentation.
- Introduce an appropriate maintenance program that covers the following key matters:
  - watering- watering of plantings will be required for some time after planting- watering frequency must respond to local rainfall
  - ongoing monitoring and maintenance of weeds-noxious weeds are to be controlled at all times - other troublesome weeds may occur from time to time and should be treated following advice from a professional in this area.
  - replacing failed trees , shrubs and ground covers- dead plants are to be replaced with the same species as soon as possible
- Develop a monitoring and reporting regime to ensure the success of Vegetation management. Reports to be submitted to the Consent Authority for their information and comment. Any recommendations contained in these reports are to be discussed with the site manager or other appropriate site persons and implemented as appropriate.
- Initial site inspection is to be undertaken with vegetation management contractor to identify weeds identified within table 5 and also other native vegetation identified within table 1.
- Removal of weed infestation is to commence working from worst infested areas utilising weed removal technique identified within table 5 or as further directed on site and documented within certification reporting. All weed material is to be removed from site.
- Re-inspections and weeding is to continue over a two year period at three monthly intervals utilising techniques described within table 5 or as further directed on site and documented within certification reporting.
- Replanting of new trees shrubs and ground covers is to occur soon as practical following removal of weed material drawing from species identified within Landscape documentation prepared for the development.
- Certification reporting is to be provided to the certifying authority at three monthly intervals for a period of twelve months. Any recommendation identified within certification reporting is to be implemented within 2 weeks of the site inspection.
- Further maintenance as required should be undertaken in accordance with table 5 of this report.

5. RECOMMENDATIONS

a. That all Poplars identified within tables 1 & 2 be removed with replacement plantings to be provided as part of landscape works for the development.

b. That Poplars numbered 7,10,14,19,20, 21, 22, 23, 24, 25, 26, 27, 28, 30, 31, 32, 33, 45, 46, 47, 53, 62, 68, 69, 72, 75, 79, 101, 128, 136, 174, 211, 223, 257, 340, 418, 436, 682, 690, 691 be marked with a bright fluoro tape encircling the lower trunk prior to any removal works being undertaken .An experienced wildlife handler is to inspect these trees and is to be present throughout their removal process to relocate or care for any fauna that may be present.

That Casuarinas numbered 640,641,642,643,644,645,646,647,648,649,650,653,654, 655,656,657,658,659,660,661,662,663,664,670,671,672,677,682,683,693,694,695,69 6,697,698,699,700,701,702,707,708,709,710 & Casuarinas within area "A,B & C" affected by roadwork's and flood storage requirements be removed with replacement plantings to be provided as part of landscape works for the development in accordance with Landscape documentation for the development and Councils Landscape Masterplan.

c. That Coral trees numbered 629,629A,674,675,676,678,679,682,689,690,691,692,703, 914,916 be removed with replacement plantings to be provided as part of landscape works for the development.

d. That the three Smooth Barked Apples numbered 649,651,652 and the Bangalay numbered 653 be removed with replacement plantings to be provided as part of landscape works for the development.

e. That the four Bottlebrush numbered 684,685,686,687 & 688 & Monterey Pine numbered 581 be removed with replacement plantings to be provided as part of landscape works for the development.

f. All remaining trees within and adjacent to areas A, B & C outside the area of the flood storage requirements are be retained and protected. Tree protection zones are to be established within the development site boundaries only at setbacks identified in table 3 column G from trunk centres in accordance with appendix E for trees.

g. That crown pruning be undertaken to remove any dead or diseased wood particularly from trees overhanging boardwalks or proposed roadways. All pruning works are to be undertaken in accordance with AS 4373- 2007- Pruning of Amenity Trees.

h. That no level changes occur adjacent to the trees to be retained within prescribed tree protection zones as identified within in table 3 column G. Any roots encountered outside these setbacks are to be treated in accordance with appendix D section 1.2.3B. Any roots encountered and proposed construction within these setbacks are to be treated in accordance with appendix D section 1.2.3A

i. Further ground protection where required is to be provided to cater for any temporary vehicular or foot traffic that may be required adjacent to protected areas identified within table 3 column F from trees or as further advised on-site by the Consulting Arboriculturist. The placement of scaffold boarding or hardwood timber lengths lain on the soil surface to provide sufficient ground protection would suffice. The ground beneath the boarding should be left undisturbed and should be protected with a geotextile fabric type material. If necessary, sand should be laid on the fabric to level the ground. The boarding should be left in place until the proposed works are finished.

j. All services where possible are to be located outside the area of the dripline from trees to be retained. Any services to be located within the area of the dripline of the trees or within the Tree Protection Zones indicated within table 3 are to be installed by the use of lateral or thrust boring equipment or some other type of Trenchless Technology considered appropriate by the Consulting Arboriculturist. Tunneling for such services should not occur less than 800mm in depth below existing ground level.

k. That an inspection schedule be introduced as part of construction works at key points as follows:

- Initial certification of the establishment of Tree Protection Zones and associated protection measures, to be undertaken prior to the start of any site works.
- Attend the site and supervise any crown pruning or excavation works near to the trees to be retained.
- Final inspection of the trees when all site works are completed.
- That bi-monthly inspections be undertaken and certification reports provided for a period of 24 months from start of site works indicating compliance with report recommendations and to outline any remedial requirements.

l. Following the above inspections or as otherwise directed following site inspections certification reports are to be provided within 2 weeks of the inspections.

m. Management of all weed material present is to occur in accordance with section 4 of this report.

Peter Richards
Tree & Landscape Consultants

Appendix A
Matrix - Sustainable Retention Index Value (S.R.I.V.)©

Developed by IACA – Institute of Australian Consulting Arboriculturists www.iaca.org.au (2005)

" *A visual method of rating the viability of urban trees for development sites and management, based on general tree and landscape assessment criteria. To be used with the values defined in Appendix B. Index values as indicated where (10) ten is the highest value."*

Age Class	Vigour Class and Condition Class					
	Normal Vigour & Good Condition (NVG)	Normal Vigour & Fair Condition (NVF)	Normal Vigour & Poor Condition (NVP)	Low Vigour & Good Condition (LVG)	Low Vigour & Fair Condition (LVF)	Low Vigour & Poor Condition (LVP)
	Able to be retained if sufficient space available above and below ground for future growth. No remedial work or improvement to growing environment required. May be subject to abnormal vigour. Retention potential - Medium – Long Term.	Able to be retained if sufficient space available above and below ground for future growth. Remedial work may be required or improvement to growing environment may assist. Retention potential - Medium Term. Potential for longer with remediation or favourable environmental conditions.	Able to be retained if sufficient space available above and below ground for future growth. Remedial work unlikely to assist condition, improvement to growing environment may assist. Retention potential - Short Term. Potential for longer with remediation or favourable environmental conditions.	May be able to be retained if sufficient space available above and below ground for future growth. No remedial work required, but improvement to growing environment may assist vigour. Retention potential - Short Term. Potential for longer with remediation or favourable environmental conditions.	May be able to be retained if sufficient space available above and below ground for future growth. Remedial work or improvement to growing environment may assist condition and vigour. Retention potential - Short Term. Potential for longer with remediation or favourable environmental conditions.	Unlikely to be able to be retained if sufficient space available above and below ground for future growth. Remedial work or improvement to growing environment unlikely to assist condition or vigour. Retention potential - Likely to be removed or retained for Immediate – Short Term. Potential for longer with remediation or favourable environmental conditions.
Young (Y)	Index Value 9 Retention potential - Long Term. Likely to provide minimal contribution to local amenity if height <5m. High potential for future growth and adaptability. Retain, move or replace.	Index Value 8 Retention potential - Short – Medium Term. Potential for longer with improved growing conditions. Likely to provide minimal contribution to local amenity if height <5m. High-moderate potential for future growth and adaptability. Retain, move or replace.	Index Value 5 Retention potential - Short Term. Potential for longer with improved growing conditions. Likely to provide minimal contribution to local amenity if height <5m. Moderate-low potential for future growth and adaptability. Retain, move or replace.	Index Value 4 Retention potential - Short Term. Potential for longer with improved growing conditions. Likely to provide minimal contribution to local amenity if height <5m. Moderate potential for future growth and adaptability. Retain, move or replace.	Index Value 3 Retention potential - Short Term. Potential for longer with improved growing conditions. Likely to provide minimal contribution to local amenity if height <5m. Moderate-low potential for future growth and adaptability. Retain, move or replace.	Index Value 1 Retention potential - Likely to be removed or retained for Immediate – Short Term. Likely to provide minimal contribution to local amenity if height <5m. Low potential for future growth and adaptability.
Mature (M)	Index Value 10 Retention potential - Medium - Long Term.	Index Value 9 Retention potential - Medium Term. Potential for longer with improved growing conditions.	Index Value 6 Retention potential - Short Term. Potential for longer with improved growing conditions.	Index Value 5 Retention potential - Short Term. Potential for longer with improved growing conditions.	Index Value 4 Retention potential - Short Term. Potential for longer with improved growing conditions.	Index Value 2 Retention potential - Likely to be removed or retained for Immediate – Short Term.
Over-mature (O)	Index Value 6 Retention potential - Medium - Long Term.	Index Value 5 Retention potential - Medium Term.	Index Value 4 Retention potential - Short Term.	Index Value 3 Retention potential - Short Term. Potential for longer with improved growing conditions.	Index Value 2 Retention potential - Short Term.	Index Value 0 Retention potential - Likely to be removed or retained for Immediate – Short Term.

Appendix B
Definitions & Terminology

Condition of trees

Condition A tree's form and growth habit, as modified by its environment (aspect, suppression by other trees, soils), and the state of the scaffold (i.e. trunk and first and possibly second order branches), including structural defects such as cavities, crooked trunk or weak trunk/branch junctions and the effects of predation by pests and diseases. These are not directly connected with health/vigour and it is possible for a tree to be healthy or of normal vigour but in poor condition.

Good Condition Tree is of good habit, a form not severely restricted for space and light, physically free from the adverse effects of predation by pests and diseases, obvious instability or structural weaknesses, fungal, bacterial or insect infestation and is expected to continue to live in much the same condition as at the time of inspection provided conditions around it for its basic survival do not alter greatly. This may be independent from, or contributed to by vigour.

Fair Condition Tree is of good habit or misshapen, a form not severely restricted for space and light, has some physical indication of decline due to the early effects of predation by pests and diseases, fungal, bacterial, or insect infestation, or has suffered physical injury to itself that may be contributing to instability or structural weaknesses, or is faltering due to the modification of the environment essential for its basic survival. Such a tree may recover with remedial works where appropriate, or without intervention may stabilise or improve over time, or in response to the implementation of beneficial changes to its local environment. This may be independent from, or contributed to by vigour.

Poor Condition Tree is of good habit or misshapen, a form that may be severely restricted for space and light, exhibits symptoms of advanced and irreversible decline such as fungal, or bacterial infestation, major die-back in the branch and foliage crown, structural deterioration from insect damage e.g. termite infestation, or storm damage or lightning strike, ring barking from borer activity in the trunk, root damage or instability of the tree, or damage from physical wounding impacts or abrasion, or from altered local environmental conditions and has been unable to adapt to such changes and may decline further to death regardless of remedial works or other modifications to the local environment that would normally be sufficient to provide for its basic survival if in *good* to *fair* condition. Deterioration physically, often characterised by a gradual and continuous reduction in vigour but may be independent of a change in vigour, but characterised by a proportionate increase in susceptibility to, and predation by pests and diseases against which the tree cannot be sustained. Such conditions may also be evident in trees of advanced senescence due to normal phenological processes, without modifications to the growing environment or physical damage having been inflicted upon the tree. This may be independent from, or contributed to by vigour.

Dead Tree is no longer capable of performing any of the following processes or is exhibiting any of the following symptoms;
Processes
Photosynthesis via its foliage crown (as indicated by the presence of moist, green or other coloured leaves);
Osmosis (the ability of the roots system to take up water);
Turgidity (the ability of the plant to sustain moisture pressure in its cells);
Epicormic shoots or epicormic strands or epicormic meristem strands in Eucalypts (Burrows 2002, Pp.111-131) (the production of new shoots as a response to stress, generated from latent or adventitious buds or from a *lignotuber*);
Symptoms
Permanent leaf loss;
Permanent wilting (the loss of turgidity which is marked by desiccation of stems leaves and roots);
Shedding of the epidermis (bark desiccates and peels off to the beginning of the sapwood).

Sustainable Retention Index Value (SRIV) A visual method of rating the viability of urban trees for development sites and management, based on general tree and landscape assessment criteria. SRIV© is for the professional manager of urban trees to consider the tree in situ with an assumed knowledge of the taxa and its growing environment and is based on the physical attributes of the tree and its response to its environment considering its age class, vigour class, condition class and its sustainable retention with regard to the safety of people or damage to property and the ability to retain the tree with remedial work or beneficial modifications to its growing environment or removal and replacement. (IACA 2005)

Description of Tree Dimensions

Height The distance measured vertically between the horizontal plane at the lowest point at the base of a tree, which is immediately above ground, and the horizontal plane immediately above the uppermost point of a tree.
Spread The furthest expanse of the crown when measured horizontally from one side of the tree to the other, generally through the centre of the trunk. Where the crown is not circular a measurement should be an average of the narrowest and widest diameters and this is dependent upon crown form and to a lesser extent its symmetry.
Crown Cover Percent of the homogenous distribution of foliage across the entire crown based upon that expected for a specimen of that species in good condition and of normal vigour, depending on form in situ, e.g. this may be influenced by crown die-back, proximity to other trees or structures, moisture stress, or overshadowing.

Vigour

Vigour Ability of a tree to sustain its life processes. This is independent of the condition of a tree but may impact upon it. Vigour can appear to alter rapidly with change of seasons (seasonality) e.g. dormancy of deciduous or semi-deciduous trees.
Health A tree's *vigour* as exhibited by the crown density, leaf colour, presence of epicormic shoots ability to withstand predation by pests and diseases and the degree of dieback.
Normal Vigour Ability of a tree to maintain and sustain its life processes. This may be evident by the growth of leaves, branches, roots and trunk. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation.
Low Vigour Reduced ability of a tree to sustain its life processes. This may be evident as a decline in the growth of leaves, branches, roots and trunk, and a deterioration of their functions. This is independent of the condition of a tree but may impact upon it, and especially the ability of a tree to sustain itself against predation.

Age of Trees

Age of Trees Most trees have a stable biomass for the major proportion of their life. The estimation of the age of a tree is based on the knowledge of the expected lifespan of the taxa in situ divided into three distinct stages of measurable biomass, when the exact age of the tree from its date of cultivation or planting is unknown. These increments are Young, Mature and Overmature.

Young Tree aged less than 20% of life expectancy.

Mature Tree aged 20-80% of life expectancy.

Over-mature Tree aged greater than 80% of life expectancy tending to senescent with or without reduced vigour, and declining gradually or rapidly but irreversibly to death.

Sapling A young tree, early in its development with small dimensions.

Senescent Advanced old age, over-mature.

General

Habitat Tree Any tree providing a niche supporting the life processes of a plant or animal e.g. a *hollow* in the trunk or branches, suitable for nesting birds, arboreal mammals and marsupials e.g. squirrels, bats or possums, or support of the growth of epiphytic plants e.g. orchids, ferns.

Nest Any structure built or naturally formed on, from or within a tree to support as habitat or shelter any part of the life cycle of fauna.

Potential Habitat Tree Any tree that develops a niche suitable to provide support for the life processes of a plant or animal e.g. hollows in the trunk or branches, suitable for nesting birds, arboreal mammals and marsupials e.g. squirrels, bats or possums, or support of the growth of epiphytic plants e.g. orchids, ferns. See also *Habitat Tree* p. 24.

Nesting Hollow A *hollow or cavity* within any part of a tree utilised as habitat or shelter for any part of the life cycle of fauna e.g. birds, reptiles or mammals.

Appendix C

Extract from British Standard BS 5837: 1991

Guide for “Trees in relation to construction.”
Protection of Trees

Table 1. Protection of trees: minimum distances for protective fencing around trees			
Tree age	**Tree vigour**	**Trunk diameter**	**Minimum distance**
		mm	m
Young trees (age less than 1/3 life expectancy	Normal vigour	< 200 200 to 400 > 400	2.0 3.0 4.0
Young trees	Low vigour	< 200 200 to 400 > 400	3.0 4.5 6.0
Middle age trees (Semi-mature) (1/3 to 2/3 life expectancy)	Normal vigour	< 250 250 to 500 > 500	3.0 4.5 6.0
Middle age trees (Semi-mature)	Low vigour	< 250 250 to 500 > 500	5.0 7.5 10.0
Mature trees	Normal vigour	< 350 350 to 750 > 750	4.0 6.0 8.0
Mature trees and over mature trees	Low vigour	< 350 350 to 750 > 750	6.0 9.0 12.0
Note 1. It should be emphasized that this table relates to distances from centre of tree to protective fencing. Other considerations particularly the need to provide adequate space around the tree including allowances for future growth (see 6.3), and also working space (see 6.7), will usually indicate that structures should be further away. Note 2. With appropriate precautions, temporary site works can occur within the protected area, e.g. for access or scaffolding (see 8.3).			

Appendix D

TREE PROTECTION GUIDELINES

1.1 GENERAL NOTES

1.1.1 The application of measures for the protection of trees on development sites is determined by the species characteristics, and the existing physical constraints of the growing environment on site both above and below ground.

1.1.2 This report considers where applicable, British Standard BS 5837 Guide for "Trees in relation to construction." as no Australian Standard currently exists for the protection of trees on development sites.

1.1.3 This report applies the ***Tree Protection Zone - Standard Procedure*** as developed and continually improved by the Consultant Arboriculturist for the effective protection of trees on development sites over time. (See section 4.0) Additional or alternative conditions are applied where it is deemed appropriate by the author for the protection of trees. Such additional or alternative conditions may be founded upon professional judgement based on:

- the experience of the Consulting Arboriculturist
- scientific research
- new technology
- industry best practice
- consideration of the individual tree species and its relative tolerance to development impacts
- the individual or cumulative factors present or proposed to impact upon the growing environment essential for the trees' survival

1.2 PRECAUTIONS TO PROTECT TREES

1.2.1 *Demolition of landscape structures*

The demolition of walls, driveways, paths etc. near trees to be retained should be undertaken manually using hand tools. Use of light machinery can occur by utilising the driveway or a paved area as a stable platform to prevent soil compaction. The volume of space previously occupied by the driveway or paved area must be replaced with local top soil from the site or otherwise a loamy sand, to replace the mass on the root plate which may be critical to the ballast and centre of mass for the stability of the tree. If the tree becomes unstable immediately contact the Consultant Arboriculturist.

1.2.2 *Structural Soil to accommodate compacted subgrade and root growth*

To further protect woody roots with a diameter of 40mm or greater outside the area of the tree protection zone (see table 2), structural soil as a fill material or a subgrade should be used where appropriate and as detailed in the report recommendations. Structural soil addresses the issue of how to increase soil rooting volume whilst maintaining structural support for pavement. Structural soil maximises rock to rock contact utilising durable rock. Pore spaces are on average 8mm in size of which approximately 60% is taken up by the filler soil - the horticultural component, depending on the product utilised. The product is used for new tree planting in pavements, courtyards, carparks and kerbsides,planter boxes and raising levels around existing trees providing increased available soil volume to trees in pavements, structural properties for pavement support, increased root depth and high permeability for both air and water. (Benedict Sand & Gravel P.O. Box 875 St Ives NSW 2075 Ph: 02 9986 3500 Fax:0299863555 Contact Murray Fraser bsc(ag) for technical inquiries.)

1.2.3 *Root location and protection where structures are to be positioned near a retained tree*

A:If walls, driveways or other structures are to be constructed near a protected tree or within a tree protection zone (see table 2 column G), careful excavation is to be undertaken manually by using hand tools or light machinery to determine the location of structural woody roots with a diameter of 40mm or greater, without damaging them. These roots are to be protected from physical damage by utilising pier & beam type footings to reduce excessive disturbance of existing soil profile supporting tree roots. Placement of piers are to be positioned so as to clear any structural root by at least 100mm to allow for future radial expansion of the tree root within the soil profile. Any roots 40mm or less may be clean cut with final cuts to undamaged woody tissue.

B: Where structural woody roots outside of the Tree Protection Zone or as otherwise indicated are to be pruned they are to be excavated manually first by using hand tools to adequately expose the root. Once located those roots to be severed are to be cut cleanly with a final cut to undamaged woody tissue. This will prevent tearing damage to the roots from excavation equipment which can extend beyond the point of excavation back towards the tree. Severed roots are to be treated with a root growth hormone stimulant.

1.2.4 *Pruning/Removal Guidelines*

- Any pruning recommended in this report is to be to the Australian Standard® AS4373 'Pruning of amenity trees', and conducted in accordance with the NSW Work Cover Authority Code of Practice for the Amenity Tree Industry, 1998
- All pruning or removal works are to be in accordance with the appropriate Tree Management Policy where applicable, or Tree Management Order (TMO), or Tree Preservation Order (TPO), or applicable consent conditions.
- Tree maintenance work is specialised and in order to be undertaken safely and to ensure the works carried out are not detrimental to the survival of the tree or surrounding vegetation, all works should be undertaken by a qualified Arboriculturist with appropriate competencies recognised within the Australian Qualification Framework, with a minimum of 5 years of continual experience within the industry of operational amenity arboriculture, and covered by appropriate and current types of insurance to undertake such works.
- Any pruning near electricity wires should be undertaken in accordance with relative Electrical Safety Rules and be performed by persons individually authorised by Energy Australia

Appendix E

TREE PROTECTION ZONE STANDARD PROCEDURE

1. Each tree to be retained is to have its dripline fenced off, except where otherwise indicated, to create a ***Tree Protection Zone***, and this may include one enclosure to protect a single or multiple tree/s, or multiple enclosures separated over the site. The area contained is the ***Tree Protection Zone***, and is to exclude any activity, except where otherwise stated. The ***Tree Protection Zone*** is to exclude: modification of existing soil levels, storage of materials, site sheds and machinery; preparation of building materials e.g. concrete, or chemical treatments; the movement of pedestrian or vehicular traffic; or the temporary or permanent location of services, or the works required for their installation, e.g. trenches, holes or canals. The above list is not meant to be exhaustive, and is intended as a guide to the types of activities that are excluded from within the ***Tree Protection Zone***, except where otherwise stated.

2. The Tree Protection Fence that defines the ***Tree Protection Zone*** is to be 1.8m high steel chain link with galvanised steel pipes, or in situations where the tree is well clear of proposed works star pickets and parra-webbing, located around the dripline of the tree except where otherwise stated, as a minimum distance from the tree for its protection and should be made larger where possible. The perimeter of the ***Tree Protection Zone*** to be further delineated by the attachment of shade cloth material to the outside surface area of the fence facing the inside of the site to reduce the movement of dust and other air borne residue from building activities that may be phytotoxic to plants or plant parts. The fence is to be installed prior to the commencement of any works on site, (except weed removal and tree maintenance, e.g. pruning, irrigation and mulching), and is to be maintained for the duration of the project. The fence must have a lockable opening for access to, and the security of the enclosed area.

3. Tree Protection signage is to be attached to each ***Tree Protection Zone*** and displayed in a prominent position and the sign repeated at 10m intervals or closer where the fence changes direction. The signs to be a minimum size of 600mm x 500mm. Example details, as following:

    1. (Title)**Tree Protection Zone**
    2. (TEXT) **Name, Address** and **Telephone number** of the *developer* (to enable enquiries concerning the trees to be directed to the developer).

4. Where a tree is to be retained and a ***Tree Protection Zone*** can not be adequately established due to restricted access e.g. tree located along side an access way, the trunk will be protected by wrapping 2 layers of hessian or carpet underfelt around the trunk for a minimum of 2m or as lower branches permit, then wire or rope secures 75x50x2000mm hardwood lengths to the trunk (do not nail to the trunk). The number of planks to be used is as required to encircle the trunk and the planks are to extend to the base of the tree.

5. If a tree is growing down slope from an excavation, a silt fence located along the contours of the site in the area immediately above the ***Tree Protection Zone*** fencing may need to be installed and regularly maintained to prevent burial and asphyxiation of the roots of the tree. To allow for the maintenance of both fences, the silt fence must be constructed separately to the tree protection fence and the 2 fences must be constructed independently of each other and standalone. To reduce competition with the tree the area within the ***Tree Protection Zone*** is to be kept free of weeds. These are best removed by the application of foliar herbicide with Glyphosate as the active constituent. This is the preferred method rather than removal by cultivation of the soil within the dripline, to minimise root disturbance to

the tree. The removal of woody weeds such as Privet should use the cut and paint method of herbicide application. Weeds to be controlled within the ***Tree Protection Zone***, for the duration of the project.

6. The area of the ***Tree Protection Zone*** to be mulched to a depth of 100 millimetres with organic material being 75% leaf litter and 25% wood, and this being composted material preferably from the same genus and species of tree as that to where the mulch is to be applied, i.e. species specific mulch. The depth of mulch and type as indicated, to be maintained for the duration of the project.

7. No services either temporary or permanent are to be located within the ***Tree Protection Zone***. If services are to be located within the ***Tree Protection Zone***, special details will need to be provided by a qualified Consulting Arboriculturist for the protection of the tree regarding the location of the service/s.

8. A tree will not be fertilised during its protection within the ***Tree Protection Zone***, as this may hasten its decline if it were to decline. If a tree is to be fertilised this should be in consultation with a qualified Consulting Arboriculturist.

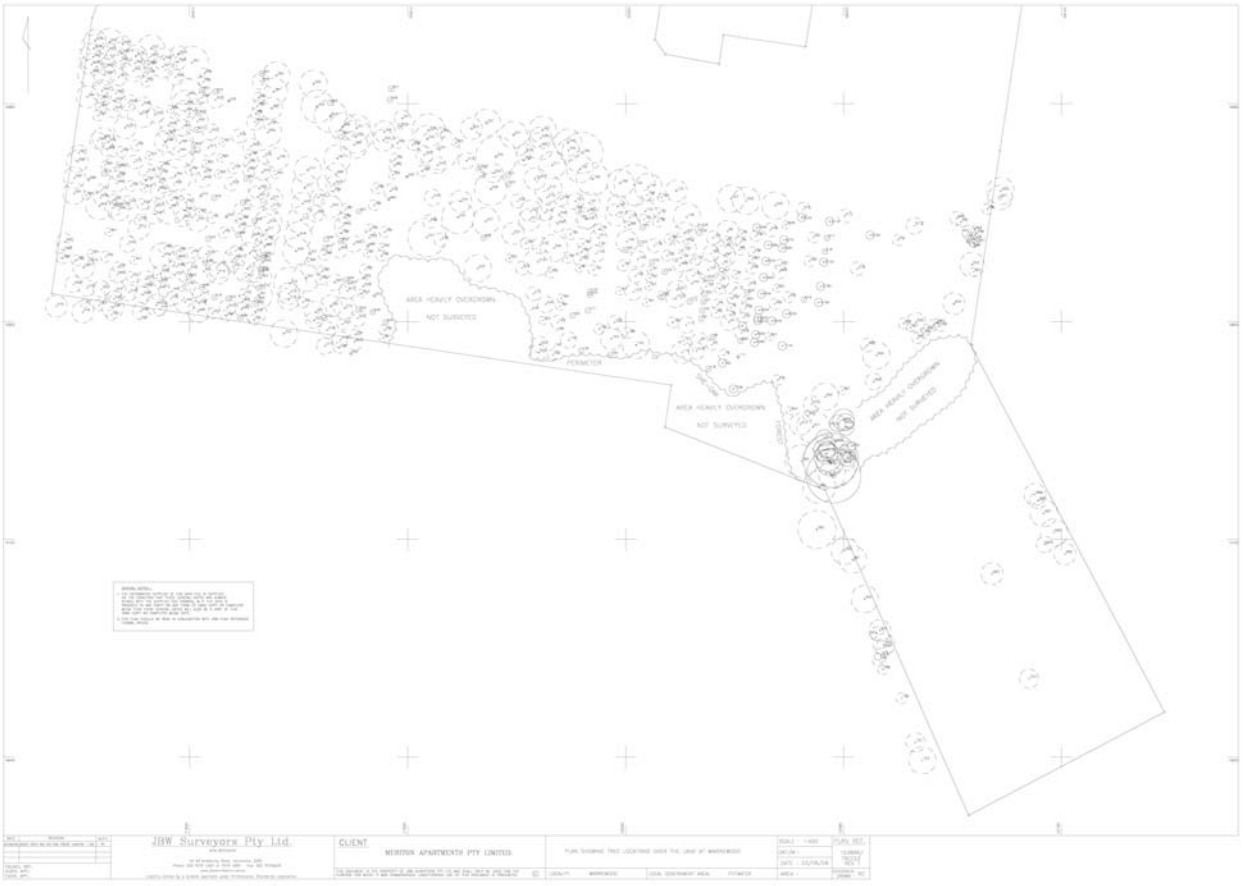
9. In the event of prolonged dry periods, or where a tree has been transplanted, or where excavation nearby, especially up slope, leads to drying out of soil profiles closest to the tree/s, the tree/s is to be deep root watered thoroughly at least twice a week. The need for such watering is determined readily by observing the dryness of the soil surface within the dripline of the tree by scraping back some mulch. Mulch to be reinstated afterwards. In the event of disrupted ground or surface water flows to the tree due to excavation, filling or construction, an irrigation system may be required to be installed within the ***Tree Protection Zone***. If an irrigation system is to be installed, consideration must be given to volume, frequency, and drainage of water delivered, and this should be in consultation with a qualified Consulting Arboriculturist.

Appendix F

Overall Site Plan

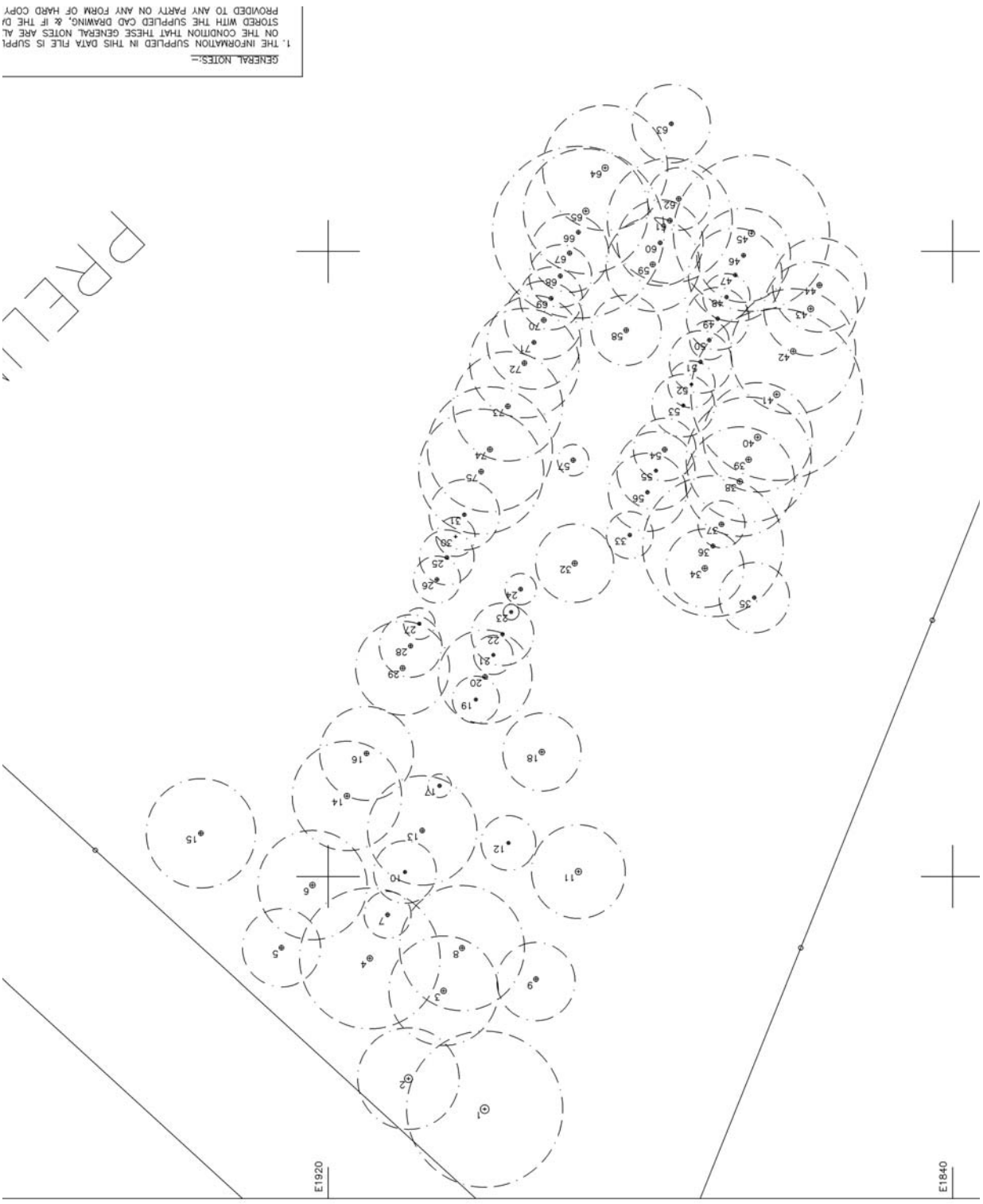
Appendix G

Survey Plan (Southern Section)/Tree Locations



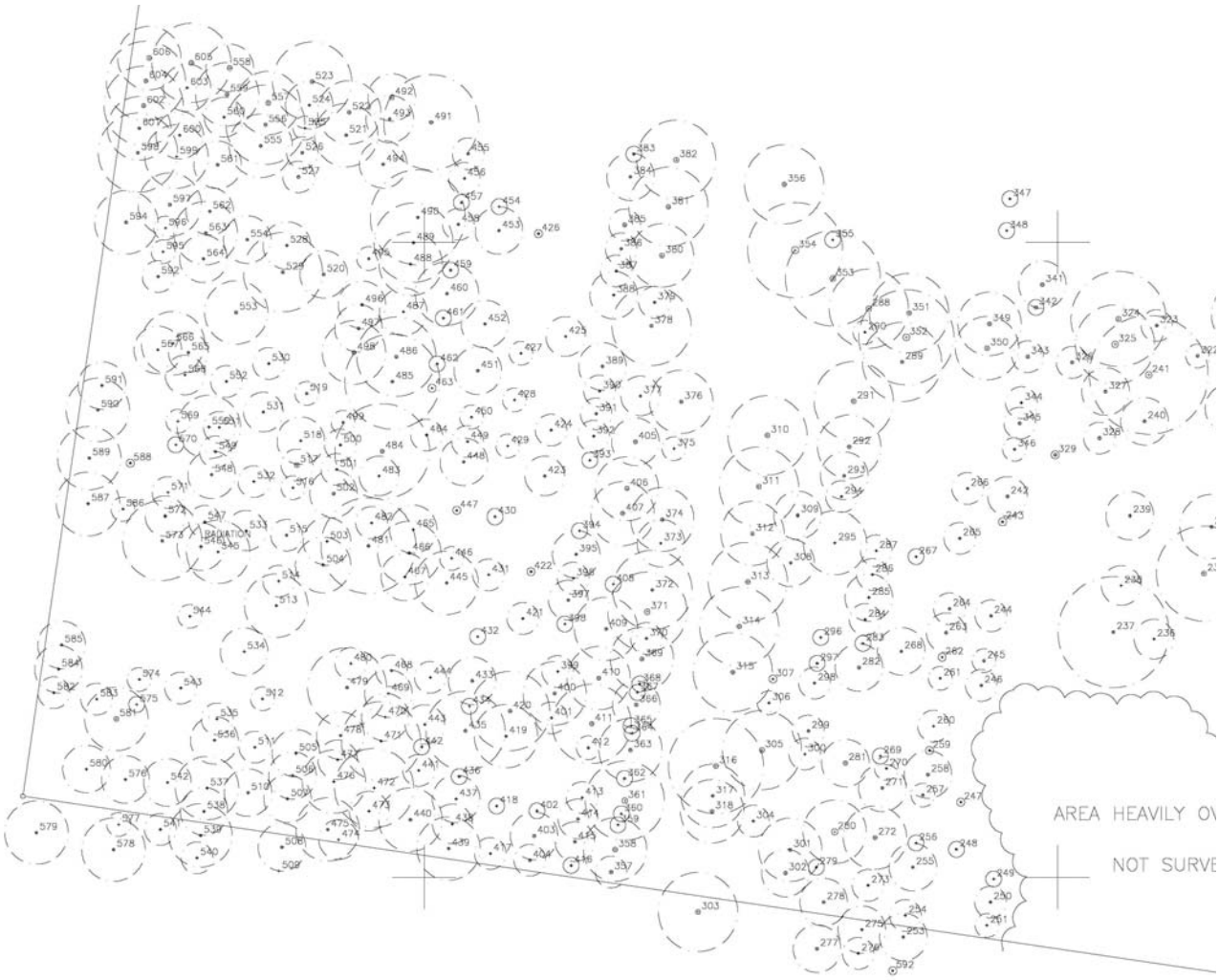
Appendix G Cont.

Survey Plan (Northern Section)/Tree Locations



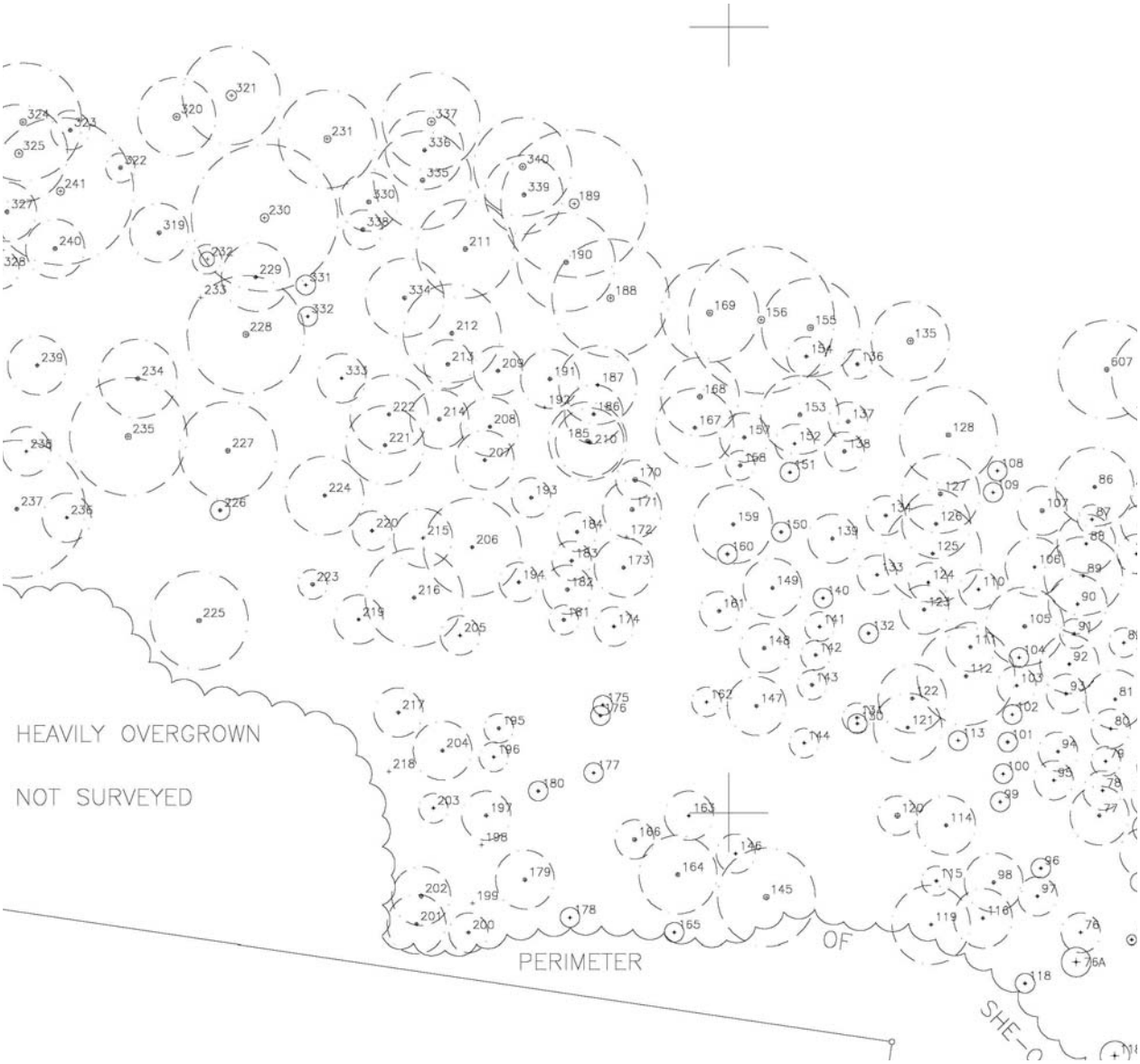
Appendix G Cont.

Survey Plan (South/Western Section)/Tree Locations



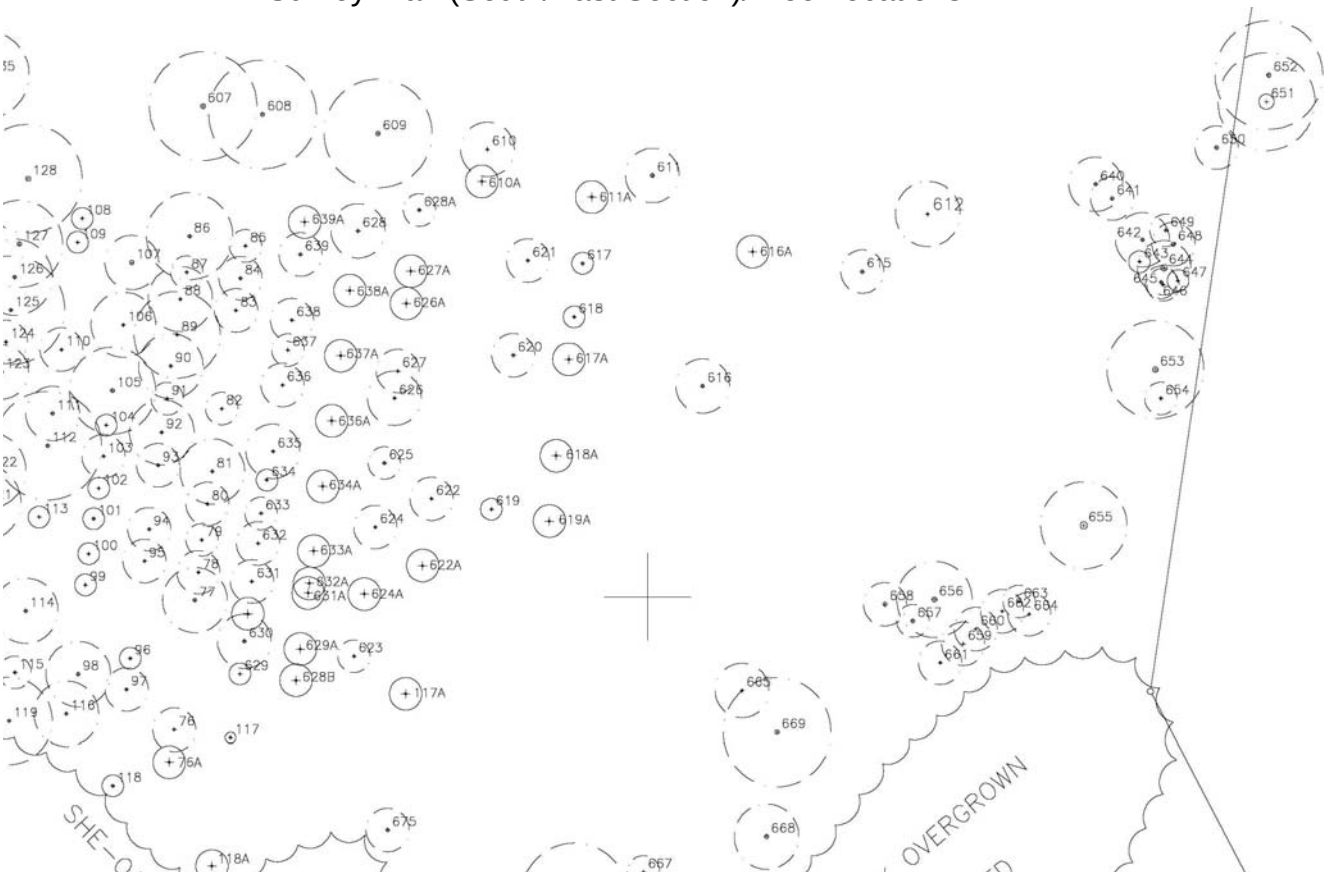
Appendix G Cont.

Survey Plan (South/Centre Section)/Tree Locations



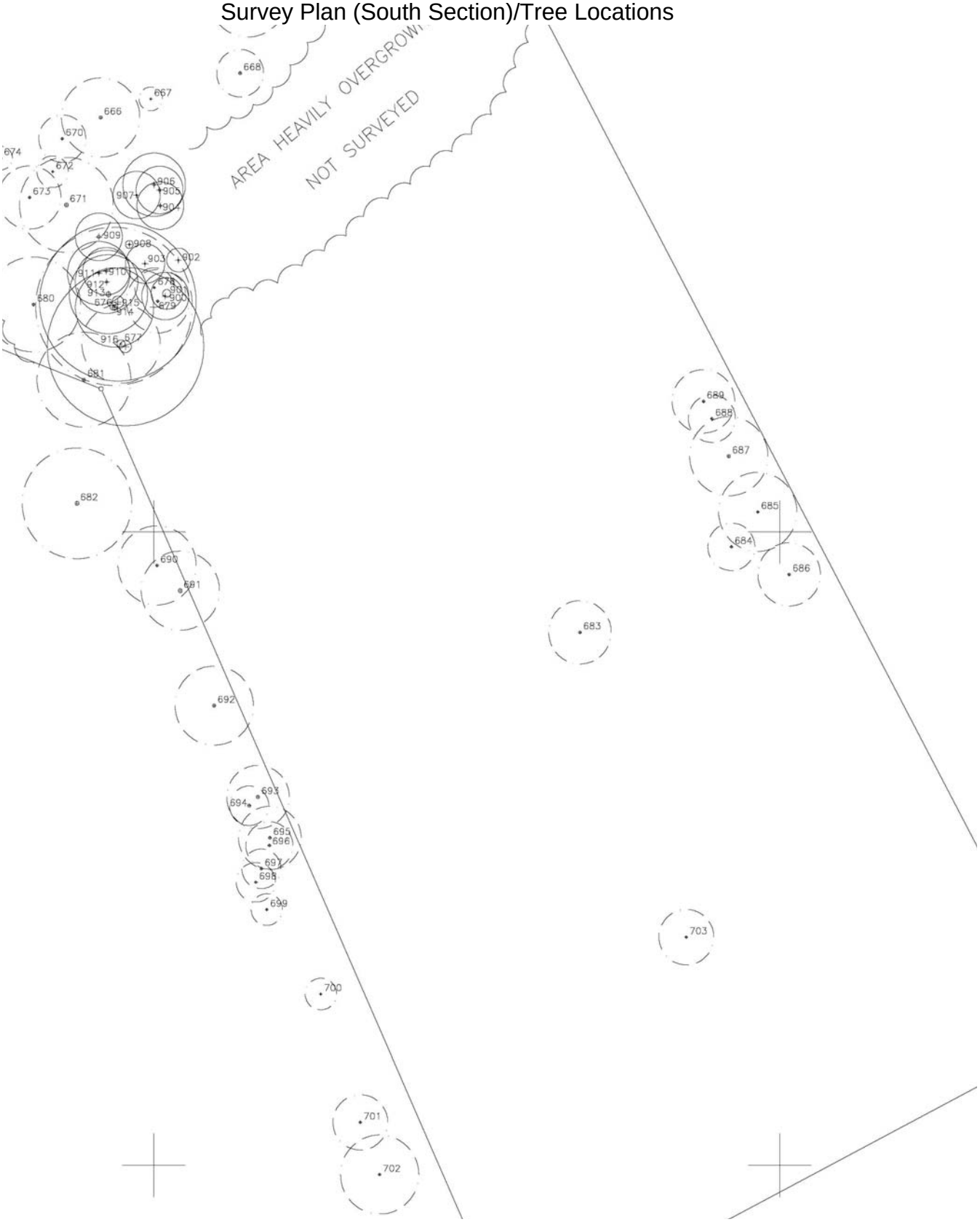
Appendix G Cont.

Survey Plan (South/East Section)/Tree Locations



Appendix G Cont.

Survey Plan (South Section)/Tree Locations



Appendix H
References

REFERENCES

1. IACA (2005), Sustainable Retention Index Value, Institute of Australian Consulting Arboriculturists, www.iaca.org.au .

2. British Standard® BS 5837: 1991 guide for 'Trees in relation to construction.'

3. Australian Standard® AS 4373 – 2007 Pruning of amenity Trees.