



TREE AND LARGE SHRUB REPORT

Golden Gate Park Soccer Fields



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Tree and Large Shrub Report

City Fields Foundation
San Francisco CA

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Introduction and Overview

The San Francisco Recreation and Park Department and the City Fields Foundation are planning to renovate the existing soccer fields located at the west end of Golden Gate Park in San Francisco CA. HortScience, Inc. was asked to prepare a **Tree and Large Shrub Report** for the site for review by the Recreation and Park Department, City of San Francisco. This report provides the following information:

1. A survey of trees and large shrubs within the proposed project area.
2. An assessment of the suitability for preservation of each tree and large shrub.
3. An assessment of proposed plans and recommendations for action.
4. Guidelines for tree and large shrub preservation during the design, construction and maintenance phases of development.

Survey Methods

Tree and large shrubs were surveyed in September 2009. The survey included plants greater than 6" in diameter located within and adjacent to the proposed project area. The survey procedure consisted of the following steps:

1. Identifying the plant as to species.
2. Attaching a numerical coded metal tag to the trunk.
3. Recording its location on a map. Base map provided by Verde Design, project landscape architect.
4. Measuring the trunk diameter at a point 54" above grade.
5. Evaluating the health and structural condition using a scale of 1 – 5 where 1 = poor and 5 = excellent condition.
5. Rating the suitability for preservation as "good", "moderate" or "poor". Suitability for preservation considers the health, age and structural condition of the tree or shrub, and its potential to remain an asset to the site for years to come.

Description of Vegetation

One hundred thirty (130) trees and large shrubs were evaluated (Table 1, following page), representing 5 species. All 130 plants had been installed as part of landscape development. No species are native to San Francisco. Descriptions of individual plants are found in the ***Tree and Large Shrub Survey*** and locations are plotted on the ***Tree and Large Shrub Survey Map*** (see Attachments).

Monterey cypress (66 trees) and myoporum (53 shrubs) dominated the site. These species had been interplanted on the east side of the soccer fields and parking lot area where the overstory consisted of mature cypresses and the understory mature myoporum. A dense screen of cypresses (on the southwest) and myoporum (on the northwest) was present between the fields and the Great Highway. South of the existing fields was a dense planting of myoporum.



Photo 1. Looking south from northeast corner of field. Note the intermix of cypress (red arrow) and myoporum (blue arrow).

Table 1. Tree & large shrub condition & frequency of occurrence. City Fields Foundation. San Francisco CA.

Common name	Scientific name	Condition				No. of Plants
		Poor	Fair	Good	Excellent	
Trees						
Monterey cypress	<i>Cupressus macrocarpa</i>	17	32	15	2	66
Italian stone pine	<i>Pinus pinea</i>	2	1	--	--	3
Monterey pine	<i>Pinus radiata</i>	6	--	--	--	6
Tree sub-total		25	33	15	2	75
Shrubs						
Myoporum	<i>Myoporum laetum</i>	41	10	2	--	53
Pittosporum	<i>Pittosporum</i> sp.	--	1	--	--	1
Shrub sub-total		41	11	2	1	54
Total, all plants surveyed		66	44	17	2	129

Note: table does not include one dead tree, Monterey cypress #36.

Cypresses were generally mature in size and form with several individuals having trunk diameters greater than 40". The largest trees were on the east side of the project area. Most had lower branches removed, resulting in high crowns. Other common features were two or more trunks, flat-topped crowns, leaning and bowed trunks, and a history of branch failure. Overall condition of cypresses was fair (32 of 66 trees) with 17 trees in poor condition and 15 in good. Cypresses #64 and 93, both semi-mature in character, were in excellent condition.

Myoporums were mature and overmature in development. The largest stems were 16" and 17" in diameter. The typical shrub had two or more stems that originated at or near ground level. Canopies had been raised, leaving high crowns and bare stems. Leaning, bowed, and failed stems were common. Of 53 myoporum plants evaluated, 41 were in poor condition, 10 were in fair and 2 good.



Photo 2. Southeast corner of site. Typical myoporum shrub with multiple leaning trunks, high crown, and twig dieback.

Approximately 80 to 100 additional myoporum shrubs were present on the site but were not individually evaluated. Most were located on the northwest and southeast sides of the property. Growth form and condition were similar to the above: mature plants in poor condition.

Also present were 6 Monterey pines, located primarily at the sound end of the parking lot. All were in poor condition. Three Italian stone pines were located in the cypress screen on the southwest side of the site. A single pittosporum shrub was located on the south.

Suitability for Preservation

Before evaluating the impacts that will occur during development, it is important to consider the quality of the tree and shrub resource itself, and the potential for individual plants to function well over an extended length of time. Trees and shrubs that are preserved on development sites must be carefully selected to make sure that they may survive development impacts, adapt to a new environment and perform well in the landscape.

Our goal is to identify plants that have the potential for long-term health, structural stability and longevity. For trees growing in open fields, away from areas where people and property are present, structural defects and/or poor health presents a low risk of damage or injury if they fail. However, we must be concerned about safety in use areas. Therefore, where development encroaches into existing plantings, we must consider their structural stability as well as their potential to grow and thrive in a new environment. Where development will not occur, the normal life cycles of decline, structural failure and death should be allowed to continue.

Evaluation of suitability for preservation considers several factors:

- **Health**
Healthy, vigorous trees and shrubs are better able to tolerate impacts such as root injury, demolition of existing structures, changes in soil grade and moisture, and soil compaction than are non-vigorous plants.
- **Structural integrity**
Trees and shrubs with significant amounts of wood decay and other structural defects that cannot be corrected are likely to fail. Such plants should not be preserved in areas where damage to people or property is likely.
- **Species response**
There is a wide variation in the response of individual species to construction impacts and changes in the environment. In our experience, for example, Monterey cypress and Monterey pine are sensitive to construction impacts.
- **Age and longevity**
Old trees and shrubs, while having significant emotional and aesthetic appeal, have limited physiological capacity to adjust to an altered environment. Young plants are better able to generate new tissue and respond to change.
- **Species invasiveness**
Species which spread across a site and displace desired vegetation are not always appropriate for retention. This is particularly true when indigenous species are displaced. None of the surveyed species is considered particularly invasive.

Each tree and large shrub was rated for suitability for preservation based upon its age, health, structural condition and ability to safely coexist within a development environment (Table 2).

Table 2. Tree and large shrub suitability for preservation. City Fields Foundation. San Francisco CA.

Good	Plants with good health and structural stability that have the potential for longevity at the site. Nine Monterey cypress trees were rated as having good suitability for preservation: #23, 56, 58, 60, 61, 64, 66, 90 and 93.
Moderate	Plants in fair health and/or possessing structural defects that may be abated with treatment. Trees and shrubs in this category require more intense management and monitoring, and may have shorter life-spans than those in the “good” category. Twenty-five Monterey cypress trees were rated as having moderate suitability for preservation as were 3 myoporum shrubs.
Poor	Plants in poor health or possessing significant defects in structure that cannot be abated with treatment. These trees and shrubs can be expected to decline regardless of management. The species or individual plant may possess either characteristics that are undesirable in landscape settings or be unsuited for use areas. Fifty (50) myoporum shrubs, 32 Monterey cypress and 10 plants of other species were rated as having poor suitability for preservation.

We consider trees and shrubs with good suitability for preservation to be the best candidates for preservation. We do not recommend retention of plants with poor suitability for preservation in areas where people or property will be present. Retention of trees and shrubs with moderate suitability for preservation depends upon the intensity of proposed site changes.

Evaluation of Plans and Recommendations for Action

Appropriate tree and shrub retention develops a practical match between the location and intensity of construction activities and the quality and health of plants. The ***Tree and Large Shrub Survey Form*** was the reference point for condition and quality. Potential impacts from construction were evaluated using the site plan prepared by Verde Design. I also consulted with the project team about potential impacts.

The proposed project would renovate the existing soccer fields with a slight enlargement of their overall size. Paved sidewalks would be added to the edge of the fields. In addition, the existing bathroom and parking lot would be rebuilt. Bleachers would be installed on the north side of the fields. Site plans depicted the location of the new features. Tree and shrub trunk locations were included on the plans. Canopies were representational.

Impacts to plants would occur in several ways. Demolition of existing features such as pavement and irrigation systems may injure roots. Trees and shrubs may be located within areas proposed for new landscape features. Excavation and construction may damage both roots and crowns. Grade changes are relatively minor.

Based on the proposed plans, I evaluated the impacts to each of the surveyed plants. I recommend preservation of 54 and removal of 22 (includes one dead Monterey cypress) (Tables 3 and 4, following pages). The vast majority of trees recommended for preservation are Monterey cypress.

Table 3. Proposed action: summary of trees and shrubs. City Fields Foundation. San Francisco CA.

Species	Proposed Action		No. of Plants
	Preserve	Remove	
Trees			
Italian stone pine	3	--	3
Monterey cypress	51	16	67
Monterey pine	--	6	6
Tree sub-total	54	22	76
Shrubs			
Myoporum	11	42	53
Pittosporum	--	1	1
Shrub sub-total	11	43	54

Of the 65 plants recommended for removal, most are myoporum shrubs located within and immediately adjacent to the project area. Demolition and clearing in the area of the bathroom and parking area will be extensive and numerous shrubs are in this location. About 75% of the plants recommended for removal are within graded areas. The remaining 17 are either dead, dying or have poor suitability for preservation. Such plants are unlikely to be assets to the new park facility. The prudent course of action would be to remove during demolition and replace them with new landscape plants.

In addition, some selective removal of unsurveyed shrubs may occur on the edge of the field during the demolition process. Shrubs that can be pruned rather than removed will be considered for retention.

Table 4. Proposed action. City Fields Foundation. San Francisco CA.

Plant No.	Species	Trunk Diameter (in.)	Proposed Action	Comments
1	Myoporum	15	Preserve	Close to sidewalk
2	Monterey cypress	23	Preserve	
3	Monterey cypress	33	Preserve	
4	Monterey cypress	40,18,17	Preserve	
5	Myoporum	14	Remove	Project; close to sidewalk
6	Myoporum	17	Remove	Project; new building
7	Myoporum	11	Remove	Project; new building
8	Myoporum	6	Remove	Project; new building
9	Myoporum	12,8,6,6	Remove	Project; new building
10	Myoporum	13	Remove	Project; new building
11	Myoporum	16	Remove	Project; new building
12	Myoporum	13	Remove	Project; new building
13	Myoporum	13	Remove	Project; new building
14	Myoporum	14	Remove	Project; new building
15	Myoporum	16,14	Remove	Project; new building
16	Myoporum	8	Remove	Project; entry
17	Myoporum	11,11,7	Remove	Project; entry
18	Myoporum	7	Remove (partial)	South side of plant.
19	Myoporum	9,8,7,6,6	Preserve	
20	Myoporum	10,7	Preserve	
21	Monterey cypress	45	Preserve	
22	Monterey cypress	33,18,12	Preserve	
23	Monterey cypress	40	Preserve	
24	Monterey cypress	30	Preserve	
25	Monterey cypress	27	Preserve	
26	Monterey cypress	41	Preserve	
27	Myoporum	7	Remove	Poor suitability
28	Myoporum	6	Remove	Poor suitability
29	Myoporum	9,8,7,5	Remove	Poor suitability
30	Myoporum	10,8,7,7,6,5	Remove	Poor suitability
31	Myoporum	10,8,8,7	Preserve	
32	Myoporum	9,8,7,6	Preserve	Edge of grading
33	Myoporum	13	Preserve	Edge of grading
34	Monterey cypress	33	Preserve	
35	Monterey cypress	25	Preserve	
36	Monterey cypress	20	Remove	Dead
37	Monterey cypress	24,21,11	Preserve	
38	Monterey cypress	24	Preserve	
39	Monterey cypress	26	Preserve	
40	Monterey cypress	31,13	Preserve	

Table 4,continued. Proposed action. City Fields Foundation. San Francisco CA.

Plant No.	Species	Trunk Diameter (in.)	Proposed Action	Comments
41	Monterey cypress	13,12	Remove	Largely dead
42	Monterey cypress	21,17	Preserve	
43	Monterey cypress	32	Preserve	
44	Monterey cypress	33	Remove	Largely dead
45	Myoporum	8,7,6	Remove	Poor suitability
46	Myoporum	10,9	Remove	Poor suitability
47	Myoporum	10	Remove	Poor suitability
48	Myoporum	10,9	Preserve	
49	Myoporum	15,12,11,11,9	Preserve	
50	Monterey cypress	27	Preserve	Close to edge of grading
51	Monterey cypress	26	Remove	Largely dead
52	Monterey cypress	22	Preserve	
53	Monterey cypress	17	Preserve	
54	Monterey cypress	12	Preserve	
55	Monterey cypress	42,19,19	Preserve	
56	Monterey cypress	40,28,28,15	Preserve	Close to edge of grading
57	Monterey cypress	22,17	Remove	Project; edge of grading
58	Monterey cypress	46	Remove	Project; north side path/seating
59	Monterey cypress	45	Remove	Project; appears to be failing
60	Monterey cypress	24	Remove	Project; north side path/seating
61	Monterey cypress	12	Remove	Project; north side path/seating
62	Monterey cypress	26	Preserve	
63	Myoporum	9,8,6,5	Remove	Project; edge of grading
64	Monterey cypress	17	Remove	Project; north side path/seating
65	Monterey cypress	7	Remove	Project; north side path/seating
66	Monterey cypress	16	Preserve	
67	Monterey cypress	14,14	Preserve	Near new sidewalk
68	Monterey cypress	16	Preserve	Close to edge of grading
69	Monterey cypress	13	Preserve	Close to edge of grading
70	Monterey cypress	16	Preserve	Close to edge of grading
71	Monterey cypress	14,12,	Preserve	Close to edge of grading
72	Monterey cypress	12,11	Preserve	
73	Monterey cypress	16,16	Preserve	
74	Monterey cypress	24	Preserve	
75	Monterey cypress	17	Preserve	
76	Monterey pine	13	Remove	Largely dead

Table 4, continued. Proposed action. City Fields Foundation. San Francisco CA.

Plant No.	Species	Trunk Diameter (in.)	Proposed Action	Comments
77	Monterey cypress	17	Preserve	
78	Monterey cypress	12	Preserve	
79	Monterey cypress	15	Preserve	
80	Monterey cypress	18	Preserve	
81	Monterey cypress	18	Preserve	
82	Italian stone pine	20	Preserve	
83	Monterey cypress	20	Preserve	
84	Monterey cypress	20	Preserve	
85	Monterey cypress	27	Preserve	
86	Italian stone pine	10	Preserve	
87	Monterey cypress	22	Preserve	Close to edge of grading
88	Monterey cypress	36	Preserve	Close to edge of grading
89	Monterey cypress	25,10	Preserve	Close to edge of grading
90	Monterey cypress	16	Preserve	Close to edge of grading
91	Italian stone pine	12	Preserve	Close to edge of grading
92	Monterey cypress	26	Remove	Project; inside grading
93	Monterey cypress	13	Preserve	Close to edge of grading
94	Monterey cypress	54.26	Preserve	
95	Monterey cypress	36	Remove	Project; inside grading
96	Myoporum	10,7,7,5,4	Remove	Project; inside grading
97	Myoporum	12,12,11	Remove	Project; inside grading
98	Myoporum	14,13,6	Preserve	Close to edge of grading
99	Myoporum	10	Remove	Project; inside grading
100	Myoporum	12	Remove	Project; inside grading
101	Myoporum	11	Remove	Project; inside grading
102	Myoporum	18,15,12,11,9,7, 7	Remove	Project; inside grading
103	Myoporum	8	Remove	Project; inside grading
104	Myoporum	12,10,10,9	Remove	Project; inside grading
105	Myoporum	9	Remove	Project; inside grading
106	Pittosporum	6	Remove	Project; inside grading
107	Myoporum	13,13,12,11	Remove	Project; inside grading
108	Monterey cypress	50	Remove	Project; inside grading
109	Myoporum	14	Remove	Project; new building
110	Monterey pine	13	Remove	Project; inside grading
111	Monterey pine	6,4	Remove	Project; inside grading
112	Monterey pine	13,10	Remove	Project; inside grading
113	Monterey pine	15	Remove	Project; inside grading
114	Monterey pine	7,4	Remove	Project; inside grading
115	Monterey cypress	17	Remove	Project; inside grading
116	Monterey cypress	18	Remove	Project; inside grading
117	Myoporum	12,8,6,6,5,5	Preserve	Close to edge of grading

Table 4, continued. Proposed action. City Fields Foundation. San Francisco CA.

Plant No.	Species	Trunk Diameter (in.)	Proposed Action	Comments
118	Myoporum	9,9,8	Remove	Project; inside grading
119	Myoporum	10,9,7,6	Remove	Project; inside grading
120	Myoporum	12,6,5	Remove	Project; inside grading
121	Myoporum	13	Remove	Project; inside grading
122	Monterey cypress	16,14,10	Preserve	
123	Myoporum	15,12	Remove	Project; inside grading
124	Monterey cypress	32	Preserve	Close to edge of grading
125	Monterey cypress	45	Preserve	
126	Myoporum	12,11	Remove	Project; edge of grading
127	Myoporum	13	Remove	Project; edge of grading
128	Myoporum	11	Remove	Project; edge of grading
129	Myoporum	10	Remove	Project; edge of grading
130	Myoporum	10,7	Remove	Project; edge of grading

Preliminary Tree and Shrub Preservation Guidelines

The following recommendations will help evaluate impacts to trees and shrubs from development as well as maintain and improve their health and vitality through the clearing, grading and construction phases.

Design recommendations

1. Identify a **PROTECTION ZONE** in which no construction, grading and underground services including utilities, sub-drains, water or sewer will be located. Because the project involves intense redevelopment of areas adjacent to plants, the most practical **PROTECTION ZONE** would be 5' from the edge of grading.
2. Design irrigation systems so that no trenching will occur within the **PROTECTION ZONE**.

Pre-construction treatments and recommendations

1. Have the construction superintendent meet with the Consulting Arborist before beginning work to discuss work procedures and protection measures.
2. Fence the **PROTECTION ZONE** prior to demolition, grubbing or grading. Fencing shall be 6' chain link with posts sunk into the ground. Fencing is to remain until construction is complete.
3. Prune selected trees to provide necessary clearance. All pruning shall be completed by a Certified Arborist or Tree Worker and adhere to the *Tree Pruning Guidelines* of the International Society of Arboriculture. Brush may be chipped and spread beneath the trees within the **PROTECTION ZONE**

Recommendations for tree protection during construction

1. Prohibit grading, construction, demolition or other work within the **PROTECTION ZONE**. Any modifications must be approved and monitored by the Consulting Arborist.
2. Ensure that any root pruning required for construction purposes shall receive the prior approval of, and be supervised by, the Consulting Arborist.
3. Supplement natural rainfall with irrigation, at a rate determined by the Consulting Arborist.
4. Evaluate any injury to plants that should occur during construction. Notify the Consulting Arborist so that appropriate treatments can be applied.
5. Prohibit the dumping and/or storage of excess soil, chemicals, debris, equipment or other materials within the **PROTECTION ZONE**.
6. Require that any pruning needed for clearance during construction must be performed by a Certified Arborist and not by construction personnel.

HortScience, Inc.



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Attachments

Tree and Large Shrub Survey Form

Tree and Large Shrub Survey Map



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PLANT No.	SPECIES	TRUNK DIAMETER (in.)	CONDITION 1=poor 5=excellent	SUITABILITY for PRESERVATION	COMMENT
1	Myoporum	15	3	Poor	Slight lean E.; codominant trunks @ 6'.
2	Monterey cypress	23	2	Poor	Suppressed; one-sided to street.
3	Monterey cypress	33	3	Moderate	Codominant trunks @ 6'; high crown.
4	Monterey cypress	40,18,17	3	Moderate	Multiple attachments @ 3'; 19" & 17" dead, 20, tall; high crown.
5	Myoporum	14	2	Poor	Leans W.; poor form; twig dieback.
6	Myoporum	17	3	Poor	Slight lean E.; codominant trunks @ 5'.
7	Myoporum	11	2	Poor	Poor form with lower trunk on ground.
8	Myoporum	6	2	Poor	Suppressed.
9	Myoporum	12,8,6,6	3	Poor	Multiple attachments @ 2'; bowed over parking; branch failure.
10	Myoporum	13	2	Poor	Vertical; twig dieback
11	Myoporum	16	2	Poor	Leans SW.; base outside dripline; twig dieback.
12	Myoporum	13	2	Poor	Poor form & structure; leans S.; twig dieback
13	Myoporum	13	2	Poor	High crown; codominant trunks @ 6'.
14	Myoporum	14	2	Poor	Big shrub; leans W.
15	Myoporum	16,14	2	Poor	Failing @ base to E.; ext. decay.
16	Myoporum	8	2	Poor	Declining; high crown.
17	Myoporum	11,11,7	2	Poor	Multiple attachments @ 1'; high crown; decay.
18	Myoporum	7	2	Poor	High crown; poor form.
19	Myoporum	9,8,7,6,6	2	Poor	Sprawling; multiple attachments @ base; high crown.
20	Myoporum	10,7	2	Poor	Flat-topped; shrub.
21	Monterey cypress	45	3	Moderate	Flat-topped; squat.
22	Monterey cypress	33,18,12	3	Moderate	Multiple attachments @ 2'; slight lean E.
23	Monterey cypress	40	4	Good	Nice tree.
24	Monterey cypress	30	2	Poor	Collapsing; history of branch failure.



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PLANT No.	SPECIES	TRUNK DIAMETER (in.)	CONDITION 1=poor 5=excellent	SUITABILITY for PRESERVATION	COMMENT
25	Monterey cypress	27	3	Moderate	Leans E.; multiple attachments @ 14'.
26	Monterey cypress	41	3	Moderate	Flat-topped; slight lean E.
27	Myoporum	7	1	Poor	Couldn't be worse.
28	Myoporum	6	1	Poor	Couldn't be worse.
29	Myoporum	9,8,7,5	2	Poor	Multiple attachments @ 1'; failing @ base to S.
30	Myoporum	10,8,7,7,6,5	1	Poor	Multiple attachments @ base; decay; twig & branch dieback.
31	Myoporum	10,8,8,7	2	Poor	Multiple attachments @ base; decay; leans S.
32	Myoporum	9,8,7,6	2	Poor	Multiple attachments @ base; thin canopy.
33	Myoporum	13	2	Poor	Leans W.; high crown; trunk decay.
34	Monterey cypress	33	2	Poor	Codominant trunks @ 4'; very high crown.
35	Monterey cypress	25	3	Poor	Strong lean E.; base outside dripline; high crown.
36	Monterey cypress	20	0	--	All but dead.
37	Monterey cypress	24,21,11	3	Poor	Multiple attachments @ 1'; high crown.
38	Monterey cypress	24	2	Poor	Strong lean E.; base outside dripline; high crown.
39	Monterey cypress	26	3	Poor	High crown.
40	Monterey cypress	31,13	3	Poor	Codominant trunks @ base; 13" dead; high crown.
41	Monterey cypress	13,12	1	Poor	All but dead.
42	Monterey cypress	21,17	3	Moderate	Codominant trunks @ 1'; high crown.
43	Monterey cypress	32	3	Poor	Flat-topped.
44	Monterey cypress	33	1	Poor	All but dead; strong lean E.
45	Myoporum	8,7,6	2	Poor	High crown; dying.
46	Myoporum	10,9	2	Poor	Failing @ base.
47	Myoporum	10	3	Poor	High crown.
48	Myoporum	10,9	2	Poor	Flat-topped; shrub.
49	Myoporum	15,12,11,11,	2	Poor	Sprawling shrub.



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PLANT No.	SPECIES	TRUNK DIAMETER (in.)	CONDITION 1=poor 5=excellent	SUITABILITY for PRESERVATION	COMMENT
50	Monterey cypress	27	2	Poor	Flat-topped; history of branch failure.
51	Monterey cypress	26	1	Poor	Strong lean E.; failing @ base; hung up in crown of #52; base outside dripline; high crown.
52	Monterey cypress	22	2	Poor	Leans E.; high crown.
53	Monterey cypress	17	1	Poor	All but dead.
54	Monterey cypress	12	1	Poor	All but dead.
55	Monterey cypress	42,19,19	2	Poor	Multiple attachments @ 2'; bowed E.; high crown.
56	Monterey cypress	40,28,28,15	4	Good	Multiple attachments @ base; full crown.
57	Monterey cypress	22,17,	1	Poor	All but dead.
58	Monterey cypress	46	4	Good	Codominant trunks @ 6'; upright; big vase; flat-topped.
59	Monterey cypress	45	3	Poor	Failing @ base to N.; high crown; roots severed; crack @ old pruning wound low on trunk.
60	Monterey cypress	24	4	Good	Low squat tree; mid-slope; branches to ground.
61	Monterey cypress	12	4	Good	Untagged; good tree.
62	Monterey cypress	26	3	Poor	Flat-topped; history of branch failure.
63	Myoporum	9,8,6,5	4	Moderate	Base of #62; shrub.
64	Monterey cypress	17	5	Good	Good young tree.
65	Monterey cypress	7	3	Poor	Not much; leans NE.
66	Monterey cypress	16	4	Good	Flat-topped; low branched.
67	Monterey cypress	14,14	3	Moderate	Codominant trunks @ 1'; pruned up.
68	Monterey cypress	16	2	Poor	Poor form; suppressed.
69	Monterey cypress	13	2	Poor	Poor form; suppressed.
70	Monterey cypress	16	3	Moderate	High crown.
71	Monterey cypress	14,12,	3	Moderate	High crown.
72	Monterey cypress	12,11	3	Moderate	Codominant trunks @ 1'.



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PLANT No.	SPECIES	TRUNK DIAMETER (in.)	CONDITION 1=poor 5=excellent	SUITABILITY for PRESERVATION	COMMENT
73	Monterey cypress	16,16	3	Moderate	Codominant trunks @ 1'; leans SW.
74	Monterey cypress	24	4	Moderate	Okay form.
75	Monterey cypress	17	3	Moderate	Flat-topped.
76	Monterey pine	13	1	Poor	All but dead; red turpentine beetle.
77	Monterey cypress	17	4	Moderate	Leans E.
78	Monterey cypress	12	3	Moderate	Crowded.
79	Monterey cypress	15	4	Moderate	Good tree; branch failure; flat-topped
80	Monterey cypress	18	3	Poor	One-sided to N.
81	Monterey cypress	18	4	Moderate	Slight lean E.; partly corrected.
82	Italian stone pine	20	2	Poor	Lost central leader; poor form.
83	Monterey cypress	20	3	Poor	Crowded; asymmetric form.
84	Monterey cypress	20	3	Poor	Leans N.
85	Monterey cypress	27	4	Moderate	Low branches sweep vertical.
86	Italian stone pine	10	2	Poor	Suppressed; poor form.
87	Monterey cypress	22	3	Moderate	Bowed E.; low lateral to NE.
88	Monterey cypress	36	3	Moderate	Flat-topped; high crown; history of branch failure; leans E.
89	Monterey cypress	25,10	4	Moderate	Low; flat-topped.
90	Monterey cypress	16	4	Good	Good tree.
91	Italian stone pine	12	3	Poor	Sinuuous trunk; one-sided to E.
92	Monterey cypress	26	4	Moderate	Low laterals sweep vertical; rangy form.
93	Monterey cypress	13	5	Good	Good young tree.
94	Monterey cypress	54.26	3	Poor	Codominant trunks @ base & 4'; high crown; 26" leans NE.
95	Monterey cypress	36	3	Poor	Big tree; opposite side of fence; scaffold branch failure; high crown.



Golden Gate Park Soccer Fields

City Fields Foundation

San Francisco CA

September 2009

PLANT No.	SPECIES	TRUNK DIAMETER (in.)	CONDITION 1=poor 5=excellent	SUITABILITY for PRESERVATION	COMMENT
96	Myoporum	10,7,7,5,4	2	Poor	Multiple attachments @ base; 10" leans N.; stubbed @ 12'.
97	Myoporum	12,12,11	3	Poor	Multiple attachments @ base; gen'l upright.
98	Myoporum	14,13,6	2	Poor	Huge shrub now collapsing.
99	Myoporum	10	1	Poor	Failing @ base to N.; base outside dripline.
100	Myoporum	12	3	Poor	Codominant trunks @ 5'; high crown.
101	Myoporum	11	3	Poor	Codominant trunks @ 6'; high crown.
102	Myoporum	18,15,12,11,	3	Poor	Huge shrub with sprawling form.
103	Myoporum	8	2	Poor	Failing @ base to E.
104	Myoporum	12,10,10,9	2	Poor	Codominant trunks @ base & 4'; 2 stems on ground.
105	Myoporum	9	2	Poor	Failing @ base to NE.
106	Pittosporum	6	3	Poor	Failing @ base to N.
107	Myoporum	13,13,12,11	2	Poor	Huge shrub now collapsing.
108	Monterey cypress	50	2	Poor	Huge tree with small high crown; history of branch failure.
109	Myoporum	14	4	Moderate	Leans E.; full dense crown.
110	Monterey pine	13	2	Poor	Poor; ext. red turpentine beetle; very thin canopy.
111	Monterey pine	6,4	1	Poor	All but dead.
112	Monterey pine	13,10	2	Poor	Codominant trunks @ 1'; leans E.; ext. red turpentine beetle.
113	Monterey pine	15	2	Poor	Lost central leader; poor form.
114	Monterey pine	7,4	1	Poor	All but dead.
115	Monterey cypress	17	3	Moderate	Rangy form; thin canopy.
116	Monterey cypress	18	4	Moderate	Good tree.
117	Myoporum	12,8,6,6,6,5,	2	Poor	Huge shrub split apart @ base.
118	Myoporum	9,9,8	3	Moderate	Multiple attachments @ base; high crown.



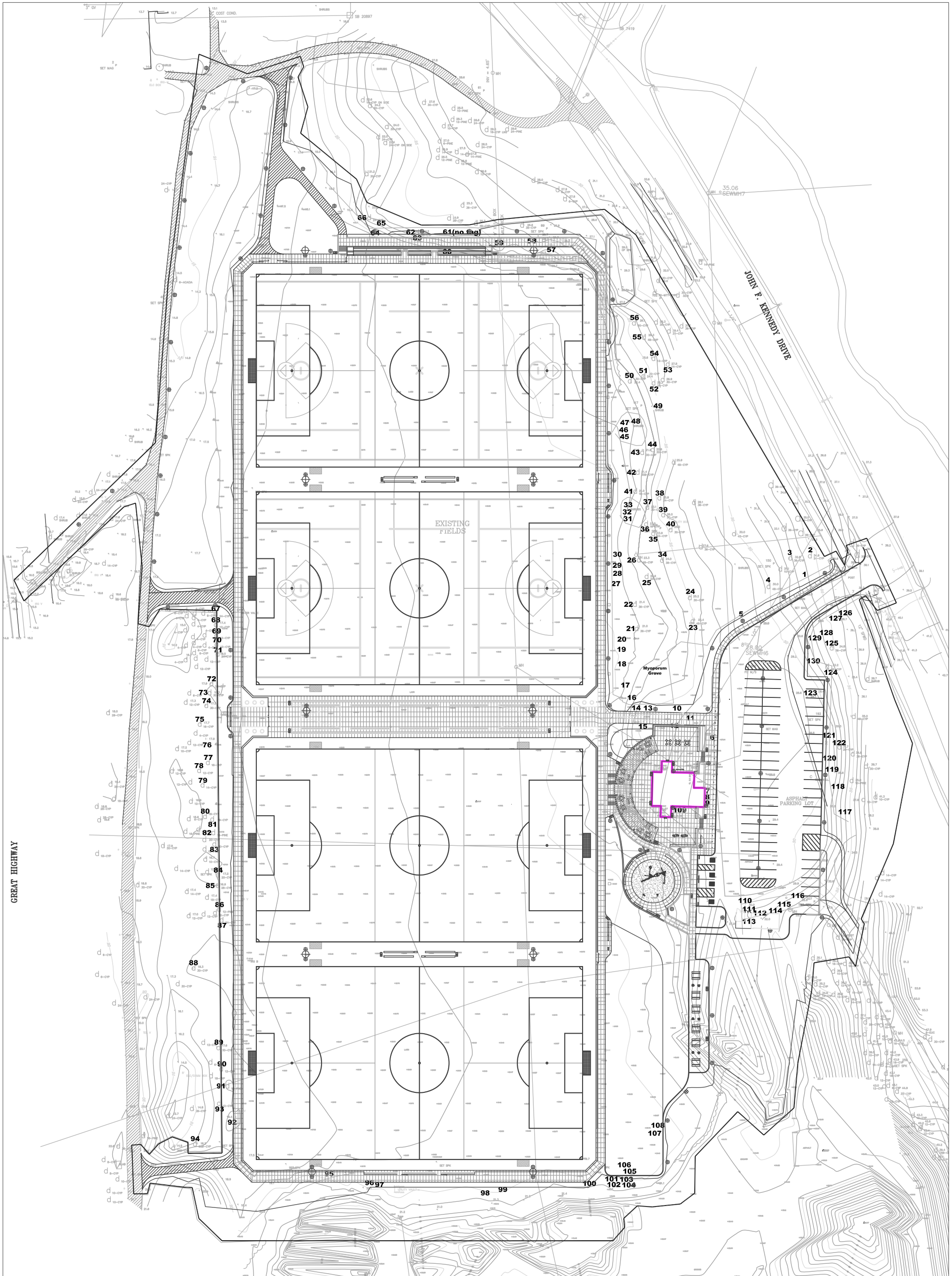
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PLANT No.	SPECIES	TRUNK DIAMETER (in.)	CONDITION 1=poor 5=excellent	SUITABILITY for PRESERVATION	COMMENT
119	Myoporum	10,9,7,6	1	Poor	Failed @ base; on ground.
120	Myoporum	12,6,5	2	Poor	Codominant trunks @ base with decay in attachment.
121	Myoporum	13	2	Poor	Failing @ base to E.; trunk decay.
122	Monterey cypress	16,14,10	2	Poor	Multiple attachments @ 1'; upright; high crown.
123	Myoporum	15,12	3	Poor	Codominant trunks @ 1'; spread apart.
124	Monterey cypress	32	3	Poor	Flat-topped; codominant trunks @ 12'.
125	Monterey cypress	45	3	Poor	Codominant trunks @ 3' & 7', both with included bark; bowed E.
126	Myoporum	12,11	1	Poor	Poor form & structure; codominant trunks @ base; failing @ base to E.
127	Myoporum	13	2	Poor	Bowed N.; poor form.
128	Myoporum	11	2	Poor	Lost central leader; leans N.
129	Myoporum	10	2	Poor	Lost central leader; leans NW.
130	Myoporum	10,7	1	Poor	Vertical stems from failed trunk.



September 2009
No Scale

Notes: Base map provided by: City Fields Foundation, San Francisco, CA
Driplines and numbered tree locations are approximate.

Trees and Large Shrub Survey

Golden Gate Park Soccer Fields
San Francisco, CA

Prepared for:
City Fields Foundation
San Francisco, CA