

December 9, 2009

MEMO:

To Charles Tuggle, President, and Members of the Board of BTHCC:

From The Gardening Committee

These are our concerns in re: the "Garden Proposal." by CARQUINEZ _____ (full name of company) dated _____ (no date):

DRAINAGE There are **no drainage holes** in any of the boxes; they need to be drilled 1 - 2 feet apart

MAINTENANCE The existing proposal is for a high maintenance garden; annuals will have to be replaced seasonally, and/or yearly. It will require a **high annual budget** to maintain.

WATER This is **not a drought** tolerant garden. Cultivars requiring little water are placed alongside cultivars which require steady watering. Gardenia requires constantly moist soil. Drought tolerant cultivars will die if overwatered; and vice versa.

SUITABILITY At least one of these cultivars is **not suitable for container** use: wisteria roots will burst through the container. One of these cultivars is **messy** and will require constant sweeping (bougainvillea). If it is not coddled when planted it will die. A previous bougainvillea planted by the gardeners died in this garden.

COLOR There doesn't seem to be any **unifying color scheme**;

SCALE Tall plants are placed next to dwarf plants.

EXPOSURE Some cultivars are **inappropriately placed** in shade when they require sun; and in sun when they require shade.

WIND No attention has been paid to the effect of severe wind shear. Two selections, Brugmansia (datura) and Pandorea (bower vine) hate wind.

ARCHITECTURAL INTEGRITY Boxes 15 & 16 compete with the front building lines. They can be moved to patio in space to the west of #23 and to the corresponding space on the south wall west of #28.

QUESTIONS THE GARDENING COMMITTEE HAS PREPARED FOR ADDRESSING BY
THE GARDENERS:

1. Did you have a particular concept in creating this garden plan? The gardening committee would prefer to see a garden which lent itself to a feeling of tranquility and groundedness. Identical vines planted in groups are more restful to the eye than mix-and-match arrangements. Working in the garden is therapeutic for some of our members in terms of maintaining their feelings of connection to growing things.
2. Did you have a particular color scheme in mind for the plan? With the grey and blue background colors, we would like to see a coordinated scheme that would stay within the complementary spectrum of oranges, coppers, bronzes, and burgundy.
3. Did you collaborate with the designers and the carpenters? We are concerned that the planter boxes were installed without drainage holes. How will these holes be drilled now without damage to the underlying concrete/fiber? Will the boxes have to be unfastened from their secure locations to be upended in order to make drilling possible before they can be refastened? Will that entail a cost overrun? If so, how much would it be?"
4. 4A What is the budget for all the cultivars you are proposing as per your list?
4B What will the annual upkeep budget be for maintaining this design? Many of our members are low-income retirees who are very conscious of expense.
5. 5. Have you made plans to accommodate wisteria roots? From our consultation with Berkeley Horticultural Nursery and from our own experience, we know that wisteria roots burst through all types of containers, They are suitable only for planting directly in the ground.

6. Did you take into account wind tolerance? Two of your suggestions, bower vine and *Brugmansia* (*datura*), are listed in the Sunset Western Garden Book as tolerating wind poorly.
7. Have you made plans for water conservation given our nine-year drought?
8. How often are you planning to water? Have you made any allowances for extreme heat and/or wind in the watering plans?
9. How will roots be accommodated in the four 10-foot trellis boxes which are only 8 inches deep? (boxes 24, 25, 26, and 27)
10. How often will you need to replace the 14 annuals listed in your scheme? How many individual plants does this scheme call for? What is their cost per unit?

Annual: a plant completing its life cycle *in a year or less*. Usually planted in spring, and pulled after the first frost. — Sunset Western Garden Book

Perennial: a plant that lives more than two years. Some perennials keep their leaves all year, others die down at the top growth to regrow the next spring. Sunset WGB

ORIGINAL INVENTORY OF PROPOSED PLANTINGS FOR BTHCC PATIO

BOX ID # EXPOSURE	CULTIVAR	WATER NEEDS	SUN/SH	NEEDS
1-8 S	CALENDULA (annual)		SU	SU
9-14 E	CYCLAMEN (annual)		SH	SH
15-16 E	GARDEN CHRYSANTHEMUM		<u>SH</u>	<u>SU</u>
	DUSTY MILLER		SU	SU
	PALUDOSYM (SHASTA DAISY)		SU	SU
17-18 E	AZALEA, evergreen Kurume(fussy-temperamental)		SH	SH
	PETUNIA (annual)		<u>SH</u>	<u>SU</u>
	LOBELIA (annual)		<u>SH</u>	<u>SU</u>
	IMPATIENS (annual)	SH	SH	
19-20 E	AZALEA (fussy)		SH	SH
	FUSHCIA TRIPHLUA gartenmeitser borstedt		SH	SH
	IMPATIENS (annual)		SH	SH
21 N	AZALEA (fussy)		SH	SH
	PETUNIA (annual)		<u>SH</u>	<u>SU</u>
22 N	BRUGMANSIA datura		<u>SH</u>	<u>SU</u>
	PETUNIA (annual)		<u>SH</u>	<u>SU</u>
23 N	BOWER VINE Pandorea jasminoides (hates wind) LOTS		SU	1/2 SU
24 N	HEUCHERA	LOTS	<u>SU</u>	<u>SH</u>
	STAR JASMINE trachelospermum	YES	<u>SH</u>	<u>SH</u>
	PRIMROSE (annual)	YES	<u>SH</u>	<u>SU</u>
25-26 N	MANDEVILLA	YES		

	PRIMROSE (annual)	YES	<u>SH</u>	<u>SU</u>
27 E	POTATOE VINE	NO	SU	SU
	LOBELIA (annual)	YES	SU	SU
	VERBENA	NO	SU	SU
28 S	BOUGAINVILLEA (messy)	NO	SU	SU
	GEUM CHILOSE	YES	<u>SH</u>	<u>SU</u>
	DIANTHUS (annual)	YES	<u>SH</u>	<u>SU</u>
29-30 W	GARDENIA	LOTS	SU	
	PETUNIA (annual)		SU	SU
31-32 W	PINK AFRICAN MALLOW 5 ft.			
	SWEET ALLYSUM		SU	SU
	LOBELIA (annual)	YES	SU	SU
33 W	LANTANA yellow		SU	
	EURYOPS		SU	SU
	GAILLARDIA	NO	SU	SU
BOX ID	CULTIVAR	WATER	SUN/SH	NEEDS
34 W	ANGELONIA angustifolia (fragile/dies) 18-24"			
	ALSTROMERIA princess lily		SU	SU
	ARMERIA sea pink			
	CALIBRACHOA (fragile/dies in winter)			
	WISTERIA chinese ROOTS NOT SUITABLE		SU	SU
	PANSIES (annual)	YES	SU	SU

35 N	AFRICAN DAISIES		
	CARNATIONS CARYOPHYLLUS scarlet (annual)	SU	SU
	CALIBRACHOA (fragile/dies in winter)		
	WISTERIA Chinese ROOTS NOT SUITABLE	SU	SU
	PANSIES (annual)	SU	SU

December 9, 2009

The Gardening Committee response to specific items in the INVENTORY OF PROPOSED PLANTINGS FOR BTHCC PATIO BY Carquinez (full name of firm; license number)

The gardening committee has reviewed the list of proposal cultivars in the above proposal dated (no date):

Of these selections, the committee is enthusiastic about:

Gaillardia (which keeps to the bright orangey-yellow spectrum and which is perennial)

Lobelia as an accent, but in limited quantities because it is an annual and requires replacing

Shasta daisy singles because it is bright white against the dark background fence, but it requires much water; its name according to the SWGB is listed as chrysanthemum maximum. We favor dwarf singles "Little Princess" or "Little Miss Muffet".

Solanum (potatoe vine) variegata, the light foliage contrasts against the dark trellises.

Sweet alyssum.

Possibly Geum but in the orange spectrum (not red).

Alstromeria (Peruvian lily) but in the yellow-orange-russet spectrum.

Armeria (sea pink).

POSSIBLES are:

Verbena, what variety? And what color?

Lantana but only in the orange-yellow spectrum.

Verbena depending on what species.

Our comments on other cultivars originally suggested by the gardeners are listed below.

Gardeners Proposals

INVENTORY OF PROPOSED PLANTINGS FOR BTHCC PATIO

BOX ID # EXPOSURE	CULTIVAR	WATER NEEDS	SUN/SH	NEEDS	Source
1-8 S	CALENDULA (annual) ^{prone to mildew} color - late fall thru Spring needs fast drainage		SU	SU	Sunset p. 195
9-14 E	CYCLAMEN (annual) keep moist during growth		SH	SH	Sunset p. 253
15-16 E	GARDEN CHRYSANTHEMUM ^{Porous soil} "regular watering"		SH	SU	Sunset p. 226
	DUSTY MILLER ^{p. 228} chrysanthemum / ^{p. 362} Lychitis coronaria ^{p. 482} senecio cineraria ^{→ light watering gets leggy}		SU	SU	Sunset, 228, 362 and 482
	PALUDOSYM (SHASTA DAISY) ^{→ need moist, well drained soil} Chrysanthemum maximum		SU	SU	Sunset p. 226
17-18 E	AZALEA, eve ^{Acid soil} need more air in root zone than other plants, Need constant moisture supply, good drainage		SH	SH	^{Sunset p. 454} see 17-18 E
	PETUNIA (annual) regular water		SH	SU	^{see 17-18 E} Sunset p. 412
	LOBELIA (annual) some are perennials / ^{water needs vary according to species} cardinalis - perennial - needs constant moisture		SH	SU	p. 359 Sunset
	IMPATIENS (annual) ^{faxiflora - drought tolerant - perennial} + perennials "grown as annuals" don't let dry out		SH	SH	p. 330 Sunset
19-20 E	AZALEA (fussy) see 17-18 E		SH	SH	see 17-18 E
	FUSHCIA TRIPHLUA gartenmeitser borstedt "Needs ample water"		SH	SH	p. 300 Sunset
	IMPATIENS (annual) see 17-18 E		SH	SH	see 17-18 E
21 N	AZALEA (fussy) see 17-18 E		SH	SH	see 17-18 E
	PETUNIA (annual) see 17-18 E		SH	SU	see 17-18 E
22 N	BRUGMANSIA datura Angels Trumpet / ^{needs wind shelter} needs water during growth & bloom season.		SH	SU	Sunset p. 191
	PETUNIA (annual) see 17-18 E		SH	SU	see 17-18 E
23 N	^{pandorea} BOWER VINE (hates wind) - What species suggested? needs room to grow, 20-30 ft., fast grower		SU		^{full sun coast not listed in p. 399} Sunset does that
^{same thing} <u>NO</u>	PANDOREA VINE Bower vine moderate water	YES	SU		^{partial shade inland mean not recommended for leafy ferns}
	HEUCHERA Alum root, coral bells Most species need regular water What species suggested? ↓ ajeuga instead.	YES	SU	SH	p. 322 Sunset

Gardeners Proposals

BOX ID EXPOSURE	CULTIVAR	WATER	SUN/SH	NEEDS	Source
24 N	STAR JASMINE, <i>Jasminum</i> , need frequent pinching	YES	SH	SH	Sunset p. 336
	PRIMROSE (annual) perennial, sometimes treated as annual. Many species, what type suggested?	YES	SH	SU	Sunset p. 375
25-26 N	MANDEVILLA } what species? } Ample water during growth	YES			
	PRIMROSE (annual) see 24 N	YES	SH	SU	see 24 N
27 E	POTATOE VINE, <i>Solanum jasminoides</i> fast grow to 30 feet. Many species poisonous, most suspect.	NO	SU	SU	Sunset, p. 487
	LOBELIA (annual) → see 17-18 E	YES	SU	SU	see 17-18 E
	VERBENA, <i>Verbenaceae</i> , water needs vary by species. what species suggested?	NO	SU	SU	Sunset p. 517
28 S	BOUGAINVILLEA (messy), little water once fragile roots, what kind suggested? established	NO	SU	SU	Sunset, p. 187
	GEUM CHILOSE, regular water, needs good → Rosaceae, perennial drainage	YES	SH	SU	
	DIANTHUS (annual) see 34 W, carnations	YES	SH	SU	Sunset p. 262
29-30 W	GARDENIA "Like a temperamental artist moist soil the gardenia has its own set of rules" LOTS "Fawn over them & they give you beauty." Soil, drain fast, but retain water.	LOTS	SU		Sunset p. 303
	PETUNIA (annual) see 17-18 E		SU	SU	Sunset p. 412
31-32 W	PINK AFRICAN MALLOW 5 ft. tree mallow. <i>Maritima</i> 6-8 ft. SU what species, <i>maritima</i> or <i>trimestris</i> (annual)		SU	SU	Sunset p. 349
	SWEET ALLYSUM, best with regular water Easy, quick dependable // <i>Brassicaceae</i> (cruciferae) perennial, little water	YES	SU	SU	Sunset p. 360 " p. 149
	LOBELIA (annual) → see 17-18 E	YES	SU	SU	see 17-18 E
33 W	LANTANA yellow, <i>Verbenaceae</i> ↔ infrequent deep watering		SU	SU	Sunset, p. 347
	EURYOPS <i>Asteraceae</i> (<i>Compositae</i>) Little water require excellent drainage (daisy) once established		SU	SU	Sunset p. 290
	GAILLARDIA thrive in heat, need good drainage chrysanthemum looking	NO	SU	SU	Sunset p. 301

Gardeners Proposals

		<u>WATER</u> ↓	<u>Sun/sh</u> ↓	<u>Need</u> ↓	<u>Source</u>
34 W	ANGELONIA angustifolia (fragile/dies) 18-24" <u>needs moist soil</u>			partial shade	Sunset p. 152
	ALSTROMERIA princess lily, perennial causes dermatitis in allergic people		SU	SU	Sunset p. 148
	ARMERIA sea pink, thrift, little to moderate water dependable, needs excellent drainage		SU	SU	Sunset, p. 165
	CALIBRACHOA (fragile/dies in winter)			does this mean not for Calif.?	not in Sunset, source - Berkeley Horticultural Nursery
	WISTERIA chinese <u>ROOTS NOT SUITABLE</u> , will break through pot *		SU	SU	P. 519 Sunset
	PANSIES (annual) Viola, rich, <u>moist soil</u> YES		SU	SU	→ Sunset, p. 164 265, 396.
35 N	AFRICAN DAISIES 1.) Arctotis, usually grown as annual water during active growth 2.) dimorphothea, cape marigold, annual 3.) osteospermum, perennial, "freeway daisy"			SU	Sunset, p. 262
	CARNATIONS CARYOPHYLLUS scarlet (annual), dianthus clove pink		SU	SU	
	CALIBRACHOA (fragile/dies in winter) - regular water/ border or florist type?				not in Sunset book - does that mean not suited for California?
	WISTERIA Chinese <u>ROOTS NOT SUITABLE for pots</u> *		SU	SU	source - Berkeley Horticultural Nursery
	PANSIES (annual) see above		SU	SU	see above

References:

- 1.) Sunset Western Garden Book, 1995 Edition.
- 2.) Plants and Landscapes for Summer-Dry Climates of the San Francisco Bay Region, published by EBMUD, 2004
- 3.) Berkeley Horticultural Nursery, Berkeley, CA.

concerning wisteria:

* also experience of one of the members of gardening Committee, Annette Goldberg.

Gardening Committee

Reference Used:
Plants & Landscapes for
Summer-Dry Climates of The
San Francisco Bay
Region, published by
EBMUD, 2004

where

Box #
33, 34, 35

1.) California Wild Grape, vitis californica,
"Rogers Red", EBMUD p. 234
Plant 6. at ends of planters.

34 W
and
35 N

2.) Aeonium, succulent perennials
EBMUD, p. 54

sun

3.) Sedum, EBMUD, p. 55

sun

4.) Echeveria (hens & chickens) EBMUD p. 119

sun

5.) Dudleya, succulent, perennial EBMUD p. 119

sun

6.) Crassula, succulent, EBMUD p. 110

sun to
partial shade

7.) Agave, succulent, perennials, sizes vary
EBMUD, p. 58-59.

sun

8.) Euphorbia, annuals, perennials + shrubs,
size varies, EBMUD p. 129.

sun

1-8 s 9.) Gazania, perennial, EBMUD p. 134

sun

10.) Heuchera, coral bells, alum root
perennial, size varies. EBMUD, p. 140

part shade

34, 33 B, 35 11.) Iris, perennial, EBMUD p. 142

sun to
part shade

12.) Erigeron, fleabane, easy care
Karvinskiahus, Santa Barbara daisy-
EBMUD p. 123.

sun

Gardening Committee

<u>Box #</u>		<u>where</u>
24, 25, 26	13.) <u>Pink Jasmine</u> , <u>Jasminum polyanthum</u> EBMUD p. 144	sun to part shade
	14.) <u>Nepeta</u> (<u>catmint</u>), perennial veronica "icicle". EBMUD p. 174	sun
29, 30, 31, 32, 33	15.) <u>phormum</u> , New Zealand <u>FLAX</u> "Guardsman" p. 186, pictured p. 187 "Rainbow Warrior," "Cookianum," "Platt's Black"	sun to part shade
1-8	16.) <u>Moroccan Daisy</u> , <u>Rhodanthemum</u> hosmariense EBMUD p. 200	sun
	17.) <u>Sedum</u> , <u>stonecrop</u> . EBMUD p. 213	sun to partial shade
	18.) <u>Sempervivum</u> , <u>houseleek</u> , succulent, EBMUD p. 214	sun to part shade
23	19.) <u>Solanum</u> , <u>potato vine</u> , jasminoides, variegated leaves, white flowers, 3 EBMUD p. 218-219.	sun to part shade
	20.) <u>Tagetes Lemmonii</u> , Mexican bush marigold, perennial, EBMUD p. 224	
	21.) <u>Tecomaria capensis</u> , <u>cape honeysuckle</u> , Yellow flowers, EBMUD p. 226.	sun to partial shade

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Box#

where

22.) Armeria maritima, thrift, sea pink
EBMUD p. 70

sun

23.) Eriobotrya, Loquat, evergreen,
EBMUD p. 124 → deflexa, good for
sunset, p. 260 containers

sun to
part shade

24.) Prunus, Laurel, cherry, flowering plum
EBMUD p. 194. "Pissardii"

sun to
part shade

25.) Lavandula, Lavender,
white flowers, Lavendula stoechas

sun

26.) Calochortus, globe Lily
EBMUD, p. 89.

sun to
partial shade

27.) Diets, fortnight Lily, perennial,
iridioides, white flowers EBMUD p. 117

sun to
partial shade

28.) Asclepias, milkweed, butterfly weed,
perennial, EBMUD p. 72

sun

23(3), 28(3)
29, 30 29.) Rubus, bramble, white flowers,
EBMUD p. 206.

partial
shade
to shade.

30.) Photinia, evergreen EBMUD p. 188

sun to
partial shade

Garden Committee

Box #

Where

28 31.) Distictis buccinatoria, ^{scarlet} trumpet vine
red-orange flowers with yellow
throats. EBmud p. 117

sun to
part shade

23 N 32.) Clytostoma callistegioides,
violet trumpet vine
EBmud p. 105.

sun to
part shade.

28 33.) Hardenbergia violacea
"canoelands" vine with purple
grape-like racemes.
Sunset, 1995, p. 316

sun to
partial shade

19 + 20 34.) Cissus striata (miniature
Virginia creeper, bronze stems.
Tolerates shade,
Sunset, 1995. p. 228-229.

21 + 22/35.) Hakonechloa macra "aurela"
Japanese forest grass.
Effect is like that of tiny bamboo.
Sunset p. 315

partial sun
to shade

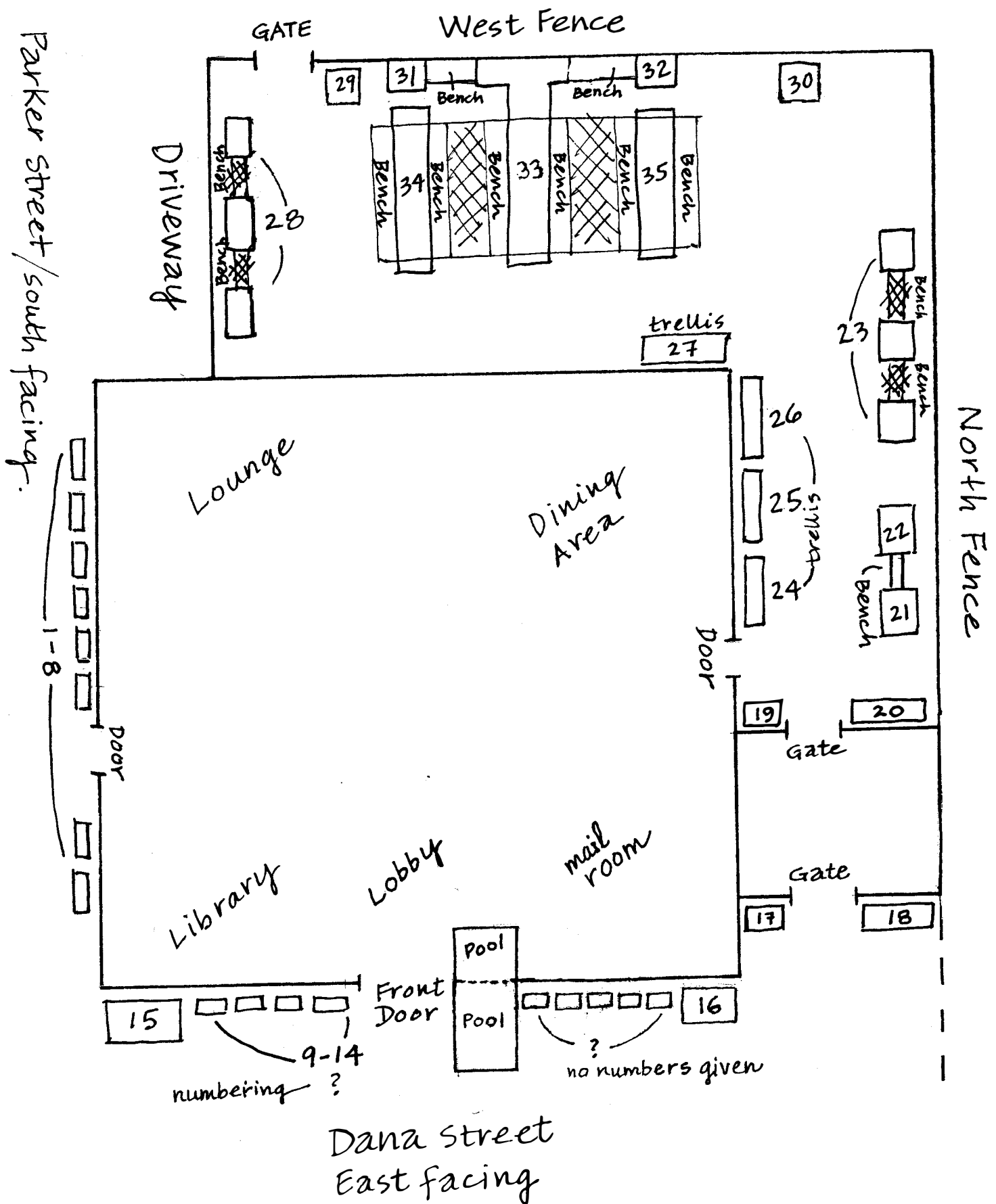
18 36.) Virburmum - Capifoliaceae, ^{sunset} p. 518
- or - regular water

sun or
partial shade

Hydrangea, oak leaf,
"distinguished container plant."
Sunset p. 327, regular water

37.) Meyer Lemon

BTH / Planter Boxes



Note: Not drawn to scale & proportion.