Kielty Arborist Services LLC

Certified Arborist WE#0476A
P.O. Box 6187
San Mateo, CA 94403
650- 515- 9783

August 18, 2019

Mr. Varish Goyal
AU Energy LLC
41805 Albrae Street, 2nd floor
Fremont, CA 94538

Site: 16500 Railroad, Morgan Hill, CA

Dear Mr. Goyal,

As requested on Friday, August 16, 2019, I visited the above site to inspect and comment on the trees. New buildings are planned for this site and your concern as to the future health and safety of the trees has prompted this visit.

Method:
All inspections were made from the ground; the trees were not climbed for this inspection. The trees in question were located on a map provided by you. Each tree was then measured for diameter at 54 inches above ground level (DBH or diameter at breast height). The tree was given a condition rating for form and vitality. The trees' condition rating is based on 50 percent vitality and 50 percent form, using the following scale.

1	-	29	Very Poor
30	-	49	Poor
50	-	69	Fair
70	-	89	Good
90	-	100	Excellent

The height of the tree was measured using a Nikon Forestry 550 Hypsometer. The spread was paced off. Comments and recommendations for future maintenance are provided.

Oak tree # 11 with severe decay in the lower trunk. This tree recently had a large section fail damaging the property.

Survey:

Tree#	Species	DBH	CON	HT/SP	Comments
1X	Italian stone pine *(Pinus pinea)*	18.8	45	30/35	Good vigor, poor form, leans south.
2X	Coast live oak *(Quercus agrifolia)*	72	50	45/65	Fair vigor, poor form, multi leader at 4 feet. decay @ base.
3X	Coast live oak *(Quercus agrifolia)*	12.8	50	35/25	Fair vigor, poor-fair form, bark damage on trunk.
4X	Hollywood juniper *(Juniperus chinensis)*	6.5	40	10/10	Poor-fair vigor, poor form, in decline.
5X	Pomegranate (*Punica granatum*)	7.2	55	15/20	Good vigor, fair form, abundance of fruit.
6X	Persimmon *(Diospyros virginiana)*	4.8	50	15/15	Good vigor, fair form.
7X	Orange *(Citrus sinensis)*	2-2	40	15/10	Poor vigor, poor form, water stressed.
8X	Black walnut *(Juglans californica)*	24	30	25/25	Poor vigor, poor form, English walnut
9X	Coast live oak *(Quercus agrifolia)*	3-2	45	10/5	Good vigor, fair form, volunteer.
10X	Coast live oak *(Quercus agrifolia)*	4	45	10/5	Good vigor, fair form, volunteer.
11X	Coast live oak *(Quercus agrifolia)*	36.5	20	30/20	Good vigor, very poor form, severe decay.
12X	Coast live oak *(Quercus agrifolia)*	27.6	40	40/40	Good vigor, poor form, leans southeast.
13X	Coast live oak *(Quercus agrifolia)*	22.9	45	35/35	Fair vigor, poor form, leans southwest.
14*	Coast live oak *(Quercus agrifolia)*	8-6-2	50	30/35	Good vigor, fair form, multi leader at base.

*indicates neighbor's or shared tree. X indicates tree to be removed.

Survey:

Tree#	Species	DBH	CON	HT/SP	Comments
15*	Coast live oak *(Quercus agrifolia)*	20est	55	40/35	Good vigor, fair form, neighbor's tree.
16*	Ash *(Fraxinus uhdei)*	14	50	40/30	Good vigor, fair form, on neighbor's property.
17*X	Coast live oak *(Quercus agrifolia)*	10	55	30/20	Good vigor, fair form, shared tree.
18*X	Coast live oak *(Quercus agrifolia)*	8-6	55	30/20	Fair vigor, fair form, shared tree.
19*	Coast live oak *(Quercus agrifolia)*	14	55	30/35	Good vigor, fair form, neighbor's.
20*X	Coast live oak *(Quercus agrifolia)*	8	50	25/25	Good vigor, poor-fair form, fence is girdling trunk.
21	Leyland cypress *(Cupressus leylandii)*	8-10	0	30/25	Dead.
22	Privet *(Ligustrum japonicum)*	4-6	40	20/15	Good vigor, poor form, good screen.
23	English walnut *(Juglans regia)*	6.2	45	25/20	Fair vigor, poor form, suppressed.
24	Coast live oak *(Quercus agrifolia)*	6.9	55	25/20	Good vigor, fair form, near property line.
25*	Coast live oak *(Quercus agrifolia)*	8-6-4	50	30/25	Good vigor, fair form, neighbor's.
26*X	Coast live oak *(Quercus agrifolia)*	6	45	20/15	Good vigor, fair form, leans west.
27*X	Coast live oak *(Quercus agrifolia)*	6	45	20/15	Good vigor, poor form, girdled by fence.
28*	Coast live oak *(Quercus agrifolia)*	12-14	50	25/30	good vigor, poor form, near property line.

*indicates neighboring or shared tree- X indicates tree to be removed.

Summary:
The trees on site and near the site are a mix of native oaks and several imported trees. The imported trees include a stone pine, Hollywood juniper, Black and English walnuts and several fruit trees. All of the imported trees are in poor-fair condition and should be removed. None of the imported trees contribute to the site.

Oak #2 with poor crotch formations at 3 feet. The narrow attachments often lead to large leader failure.

The oaks are in very poor-fair condition with no good or excellent trees. Coast live oak #2 has decay at the base and multiple leaders with poor crotches. The poor crotches are due to the narrow crotch formations. In narrow crotch formations often lead to large leader failure. Oak #11 is severely decayed and has lost a large leader due to the decay. Failure of the entire tree is likely causing significant damage. Oaks #12-13 have poor form, their heavy lean and no counter weight will eventually lead to failure.

The perimeter trees are for the most-part shared with the neighboring properties. Some trimming or removal of these trees may be required to facilitate construction.

Perimeter trees may require some trimming to facilitate the planned construction.

Tree Protection Plan:

Tree Protection Fencing

Tree protection zones should be established and maintained throughout the entire length of the project. Fencing for the protection zones should be 6 foot tall metal chain link supported by metal poles pounded into the ground to a depth of 2 feet. The support poles should be spaced no more than 10 feet apart on center. The location for the protection fencing should be as close to the dripline as possible (12XDBH) still allowing room for construction to safely continue. Signs should be placed on fencing signifying "Tree Protection Zone - Keep Out". No materials or equipment should be stored or cleaned inside the tree protection zones.

Trenching

Trenching for irrigation, electrical, drainage or any other reason should be hand dug when beneath the driplines of protected trees. Hand digging and carefully laying pipes below or beside protected roots will dramatically reduce root loss of desired trees thus reducing trauma to the entire tree. Trenches should be backfilled as soon as possible with native material and compacted to near its original level. Trenches that must be left exposed for a period of time should also be covered with layers of burlap or straw wattle and kept moist.

Irrigation

Normal irrigation should be maintained throughout the entire length of the project. The native trees on this site may require irrigation during the warm season months if roots are traumatized. Some irrigation may be required during the winter months depending on the seasonal rainfall. During the summer months the trees on this site should receive heavy flood type irrigation 2 times a month. During the fall and winter 1 time a month should suffice. Mulching the root zone of protected trees will help the soil retain moisture, thus reducing water consumption.

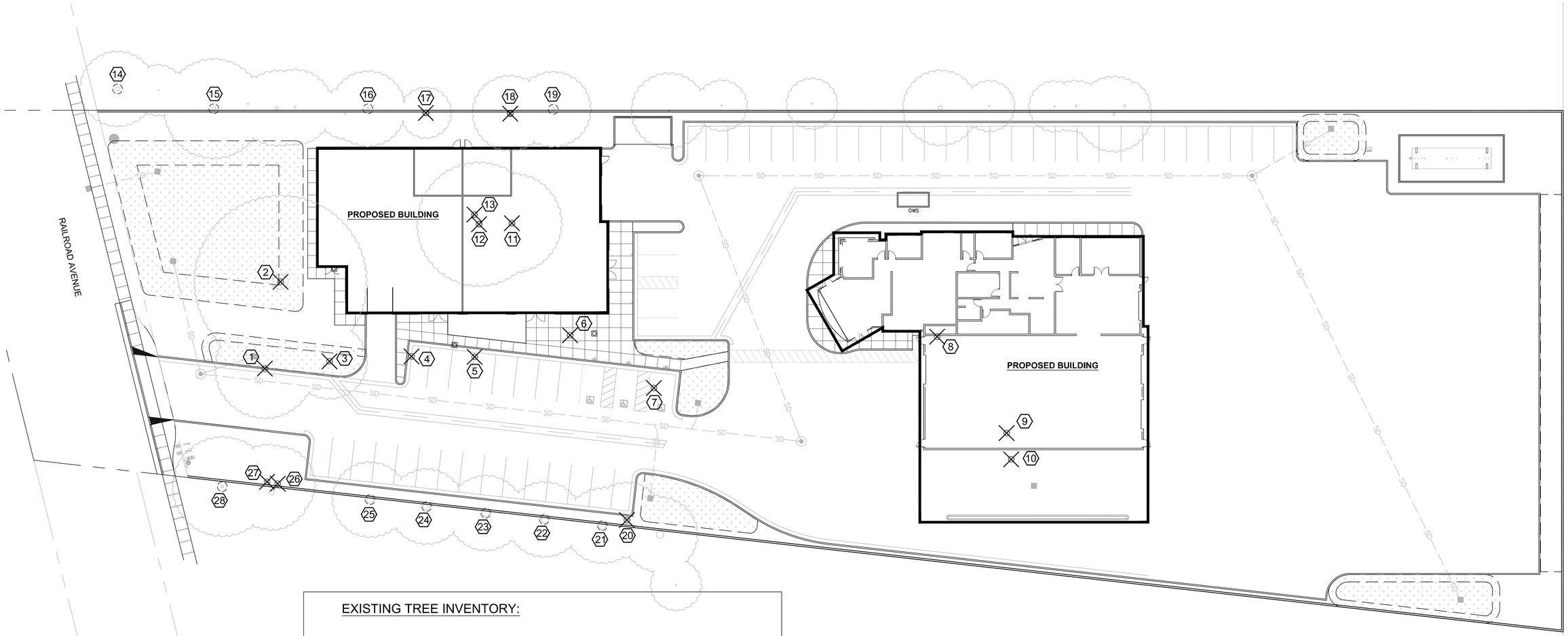
Tree Trimming

All trimming of the protected trees should be carried out by a licensed tree care provider. Any large scale trimming will be inspected by the project arborist. ANSI and Best Management Practices shall be followed when trimming the trees.

The information included in this report is believed to be true and based on sound arboricultural principles and practices.

Sincerely,

Kevin R. Kielty
Certified Arborist WE#0476A



EXISTING TREE INVENTORY:

TREES TO BE REMOVED SYMBOL = ⊗ TREES TO REMAIN SYMBOL = ◌

CITY ORDINANCE TREE = ANY INDIGENOUS TREE WITH A CIRCUMFERENCE OF 18 INCHES (5.8 INCH DIAMETER) OR GREATER; AND ANY NON-INDIGENOUS TREE WITH A CIRCUMFERENCE OF 40 INCHES (12.8 INCH DIAMETER) OR GREATER.

TREE #	SPECIES	DIAMETER AT BREAST HEIGHT (INCHES)	STATUS
1 ★	ITALIAN STONE PINE	18.8	REMOVE
2 ★	COAST LIVE OAK	72	REMOVE
3 ★	COAST LIVE OAK	12.8	REMOVE
4	HOLLYWOOD JUNIPER	6.5	REMOVE
5	POMEGRANATE	7.2	REMOVE
6	PERSIMMON	4.8	REMOVE
7	ORANGE	2-2	REMOVE
8 ★	BLACK WALNUT	24	REMOVE
9 ★	COAST LIVE OAK	3-2	REMOVE
10	COAST LIVE OAK	4	REMOVE
11 ★	COAST LIVE OAK	36.5	REMOVE
12 ★	COAST LIVE OAK	27.6	REMOVE
13 ★	COAST LIVE OAK	22.9	REMOVE
*14 ★	COAST LIVE OAK	8-6-2	REMAIN
*15 ★	COAST LIVE OAK	20est	REMAIN
*16 ★	ASH	14	REMAIN
*17 ★	COAST LIVE OAK	10	REMOVE
*18 ★	COAST LIVE OAK	8-6	REMOVE
*19 ★	COAST LIVE OAK	14	REMAIN
*20 ★	COAST LIVE OAK	8	REMOVE
21	LEYLAND CYPRESS	8-10	REMAIN
22	PRIVET	4-6	REMAIN
23	ENGLISH WALNUT	6.2	REMAIN
24 ★	COAST LIVE OAK	6.9	REMAIN
*25 ★	COAST LIVE OAK	8-6-4	REMAIN
*26 ★	COAST LIVE OAK	6	REMOVE
*27 ★	COAST LIVE OAK	6	REMOVE
*28 ★	COAST LIVE OAK	12-14	REMAIN

* INDICATES NEIGHBOR'S OR SHARED TREE.
★INDICATES CITY ORDINANCE SIZE TREE.

CITY PARKING LOT TREE REQUIREMENT:

(ONE) 24" BOX TREE REQUIRED PER (FIVE) PARKING STALLS

58 = TOTAL # OF PARKING STALLS
12 PARKING LOT TREES REQUIRED
12 PARKING LOT TREES PROVIDED

CITY ORDINANCE TREE REMOVAL MITIGATION REQUIREMENT:

(2) NEW TREES REQUIRED FOR EVERY (1) ORDINANCE TREE REMOVED

13 EXISTING ORDINANCE TREES REMOVED
28 NEW TREES REQUIRED
30 NEW TREES PROVIDED

GRAPHIC SCALE

20 0 10 20 40 40

(IN FEET)
1 inch = 20 ft.

REVISIONS
1 4-16-20 City Comment
2
3
4
5
6
7

Thomas Baak & Associates, LLP.
Landscape Architects
1700 Oak Park Blvd., Suite 4
Walnut Creek, CA 94596
Ph: 925.933.2583

AU ENERGY
15600 RAILROAD AVENUE
MORGAN HILL, CALIFORNIA

EXISTING TREE PLAN

DESIGNED:	DRAWN:
CHECKED:	JOB NO:
DATE 3-19-20	
SCALE	

SHEET
L1.2
OF SHEETS